

# Liftcrane Luffing Jib Capacities

Luffing Jib No. LJ10:681-682 on  
 Boom No. B60:680  
 with Mast No. M10:684 or Mast No. M11:684  
 440,900 lb VPC (Variable Position Counterweight)  
 360 Degree Rating

**MLC650  
 VPC-MAX  
 SERIES 1**



**LIFTING CAPACITIES:** Lifting capacities for various boom lengths, boom angles, luffing jib lengths, and luffing jib operating radii are for freely suspended loads and may be based on percent of static tipping or strength of structural components. Capacities must be reduced by applicable deducts.

Upper luffing jib point capacity for liftcrane service with single part whip line from Drum 3 is 30,000 lb or 60,000 lb with two part whip line. When Drum 1 or Drum 2 is used, capacity with single part whip line is 48,800 lb, or 73,500 lb with two part whip line. In all cases, upper luffing jib point capacities cannot exceed those listed for main luffing jib capacity.

Weight of all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom and luffing jib point sheaves is considered part of load. Boom and luffing jib are not to be lowered beyond radii where combined weights are greater than rated capacity. Operation is only approved for boom and luffing jib angle range shown in capacity chart.

**LUFFING JIB BACKWARD STABILITY:** Capacities indicated by (b) require 14,000 lb minimum weight suspended beneath luffing jib point, (c) require 28,000 lb minimum weight, and (d) require 40,000 lb minimum weight. **Caution: Do not luff into areas indicated by (b), (c), or (d) without required minimum weight.** *Luffing jib may not luff down and luffing jib hoist wire rope may go slack. Luffing jib hoist wire rope may overhaul luffing jib and cause wire rope damage or failure.*

**OPERATING CONDITIONS:** Machine to operate on a firm, level, and uniformly supporting surface. Supporting surface and bearing turntable are to be level within a tolerance of 1/2 in. in 10 ft. Refer to Luffing Jib Rigging **No. 81022910**, Mast Rigging **No. 81025005** or **No. 84050187**, Wire Rope Specifications chart **No. 9548-A**, Counterweight Arrangements chart **No. 9349-A**, Luffing Jib Raising Procedure chart **No. 9421-A**, and Wind Conditions chart **No. 9423-A**. Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, travel, wind conditions, as well as adverse operating conditions and physical machine depreciation. Refer to the Operator Manual for operating guidelines.

**MACHINE TRAVEL:** Machine to travel on a firm, level, and uniformly supporting surface. Boom and luffing jib must be within angle range shown in capacity chart. Refer to Maximum Allowable Travel Specifications chart **No. 9422-A**.



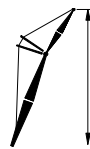
**OPERATING RADIUS:** Operating radius is horizontal distance from axis of rotation to center of vertical hoist line or load block. Boom angle and luffing jib angle are an indication of operating radius. In all cases, operating radius shall govern capacity.



**BOOM ANGLE:** Boom angle in degrees (°) is angle between horizontal and centerline of boom butt and inserts.



**LUFFING JIB ANGLE:** Luffing jib angle in degrees (°) is angle between horizontal and centerline of luffing jib butt and inserts.



**LUFFING JIB POINT ELEVATION:** Luffing jib point elevation is vertical distance from ground level to centerline of luffing jib point shaft.

**MACHINE EQUIPMENT:** Machine equipped with VPC-MAX, 36 ft 6 in. crawlers, 60 in. or 80 in. treads, 36 ft 1 in. live mast, 118.1 ft mast, 16 part boom hoist reeving, boom support straps, 20 part luffing jib hoist reeving, luffing jib and backstay support straps, and 440,900 lb VPC.

Select counterweight position from Luffing Jib Raising Procedure chart **No. 9421-A** that will allow raising and lowering of boom and luffing jib length. Counterweight position selection may be changed with luffing jib on ground or while luffing jib is within operating range of capacity chart.

## Explanation of Symbols



Luffing Jib No. LJ10:681-682  
+  
Boom No. B60:680



VPC (Variable Position Counterweight)



360 Degree Rating



Boom Length



Luffing Jib Length



Boom Angle  
(see page 1)

## Explanation of Symbols (continued)



Operating Radius  
(see page 1)



Luffing Jib Angle  
(see page 1)



Luffing Jib Elevation  
(see page 1)



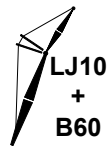
Counterweight Position  
from Axis of Rotation



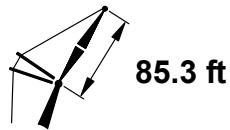
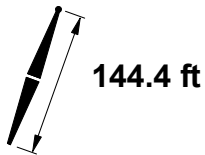
Lifting Capacities  
(see page 1)

# MLC650 VPC-MAX S-1

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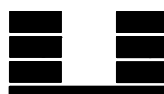
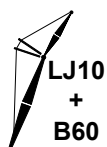
440,900 lb



|     | 85°  |       |           |           | 83°  |       |           |           | 80°  |       |           |           |     |
|-----|------|-------|-----------|-----------|------|-------|-----------|-----------|------|-------|-----------|-----------|-----|
|     |      |       |           |           |      |       |           |           |      |       |           |           |     |
| ft  | °    | ft    | lb        | lb        | °    | ft    | lb        | lb        | °    | ft    | lb        | lb        | ft  |
| 50  | 73.0 | 234.6 | 518,400 c | 771,600 c |      |       |           |           |      |       |           |           | 50  |
| 55  | 69.4 | 232.6 | 462,300 c | 771,600 c |      |       |           |           |      |       |           |           | 55  |
| 60  | 65.7 | 230.2 | 416,400 b | 706,800 b | 69.4 | 232.0 | 403,500 b | 696,000 b |      |       |           |           | 60  |
| 65  | 61.8 | 227.4 | 378,000 b | 639,200 b | 65.7 | 229.6 | 366,300 b | 629,400 b |      |       |           |           | 65  |
| 70  | 57.8 | 224.1 | 345,400 b | 582,900 b | 61.8 | 226.8 | 334,700 b | 573,900 b | 67.5 | 229.5 | 318,500 b | 560,600 b | 70  |
| 75  | 53.6 | 220.3 | 317,400   | 535,200   | 57.8 | 223.5 | 307,500 b | 527,000 b | 63.8 | 226.9 | 292,600 b | 514,700 b | 75  |
| 80  | 49.1 | 215.9 | 293,000   | 494,400   | 53.6 | 219.7 | 283,900   | 486,800   | 59.8 | 223.9 | 270,100 b | 475,500 b | 80  |
| 85  | 44.3 | 210.7 | 271,600   | 459,000   | 49.1 | 215.3 | 263,100   | 451,900   | 55.7 | 220.4 | 250,300   | 441,400   | 85  |
| 90  | 38.9 | 204.4 | 252,600   | 427,900   | 44.3 | 210.0 | 244,700   | 421,400   | 51.4 | 216.3 | 232,800   | 411,600   | 90  |
| 95  | 32.7 | 196.7 | 235,500   | 400,500   | 38.9 | 203.8 | 228,200   | 394,400   | 46.7 | 211.5 | 217,100   | 385,200   | 95  |
| 100 | 25.0 | 186.3 | 219,800   | 376,000   | 32.7 | 196.0 | 213,300   | 370,300   | 41.7 | 205.8 | 203,000   | 361,800   | 100 |
| 105 | 12.7 | 168.8 | 205,000   | 312,000   | 25.0 | 185.7 | 199,500   | 348,700   | 35.9 | 198.8 | 190,100   | 340,700   | 105 |
| 110 |      |       |           |           | 12.8 | 168.3 | 186,400   | 323,400   | 29.1 | 190.0 | 178,300   | 321,700   | 110 |
| 115 |      |       |           |           |      |       |           |           | 20.0 | 177.4 | 167,200   | 304,300   | 115 |
| 120 |      |       |           |           |      |       |           |           |      |       |           |           | 120 |
| 125 |      |       |           |           |      |       |           |           |      |       |           |           | 125 |
| 130 |      |       |           |           |      |       |           |           |      |       |           |           | 130 |
| 135 |      |       |           |           |      |       |           |           |      |       |           |           | 135 |
| 140 |      |       |           |           |      |       |           |           |      |       |           |           | 140 |
| 145 |      |       |           |           |      |       |           |           |      |       |           |           | 145 |
| 150 |      |       |           |           |      |       |           |           |      |       |           |           | 150 |

# MLC650 VPC-MAX S-1

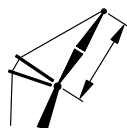
ASME B30.5



440,900 lb



144.4 ft

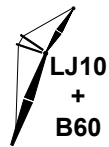


85.3 ft

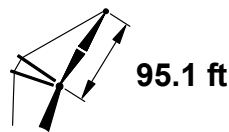
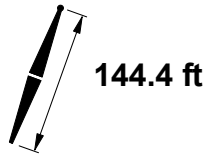
|     | 75°  |       |         |         | 70°  |       |         |         | 65°  |       |         |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|---------|---------|-----|
|     |      |       |         |         |      |       |         |         |      |       |         |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | ft  |
| 50  |      |       |         |         |      |       |         |         |      |       |         |         | 50  |
| 55  |      |       |         |         |      |       |         |         |      |       |         |         | 55  |
| 60  |      |       |         |         |      |       |         |         |      |       |         |         | 60  |
| 65  |      |       |         |         |      |       |         |         |      |       |         |         | 65  |
| 70  |      |       |         |         |      |       |         |         |      |       |         |         | 70  |
| 75  |      |       |         |         |      |       |         |         |      |       |         |         | 75  |
| 80  |      |       |         |         |      |       |         |         |      |       |         |         | 80  |
| 85  |      |       |         |         |      |       |         |         |      |       |         |         | 85  |
| 90  | 61.7 | 222.3 | 212,800 | 395,400 |      |       |         |         |      |       |         |         | 90  |
| 95  | 57.6 | 219.0 | 198,400 | 370,100 |      |       |         |         |      |       |         |         | 95  |
| 100 | 53.4 | 215.2 | 185,400 | 347,500 |      |       |         |         |      |       |         |         | 100 |
| 105 | 48.9 | 210.7 | 173,700 | 327,400 | 59.2 | 216.3 | 157,200 | 314,200 |      |       |         |         | 105 |
| 110 | 44.0 | 205.5 | 163,000 | 309,100 | 55.1 | 212.7 | 147,400 | 296,700 |      |       |         |         | 110 |
| 115 | 38.6 | 199.2 | 153,200 | 292,600 | 50.7 | 208.5 | 138,500 | 280,900 |      |       |         |         | 115 |
| 120 | 32.4 | 191.3 | 144,100 | 277,500 | 46.0 | 203.6 | 130,300 | 266,400 |      |       |         |         | 120 |
| 125 | 24.6 | 180.9 | 135,500 | 263,600 | 40.8 | 197.7 | 122,700 | 253,200 | 52.1 | 204.8 | 109,600 | 242,900 | 125 |
| 130 | 11.8 | 162.5 | 126,800 | 250,500 | 35.0 | 190.6 | 115,600 | 241,000 | 47.5 | 200.1 | 103,200 | 231,200 | 130 |
| 135 |      |       |         |         | 28.0 | 181.4 | 108,800 | 229,700 | 42.5 | 194.6 | 97,200  | 220,400 | 135 |
| 140 |      |       |         |         | 18.2 | 167.7 | 102,200 | 219,000 | 36.9 | 187.9 | 91,600  | 210,400 | 140 |
| 145 |      |       |         |         |      |       |         |         | 30.3 | 179.5 | 86,200  | 201,100 | 145 |
| 150 |      |       |         |         |      |       |         |         | 21.8 | 167.7 | 80,900  | 192,300 | 150 |

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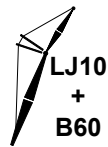
440,900 lb



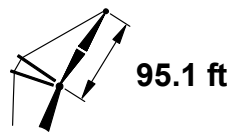
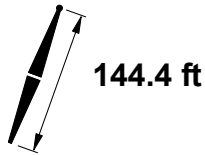
|     | 85°  |       |           |           | 83°  |       |           |           | 80°  |       |           |           |     |
|-----|------|-------|-----------|-----------|------|-------|-----------|-----------|------|-------|-----------|-----------|-----|
|     |      |       |           |           |      |       |           |           |      |       |           |           |     |
| ft  | °    | ft    | lb        | lb        | °    | ft    | lb        | lb        | °    | ft    | lb        | lb        | ft  |
| 50  | 74.8 | 245.0 | 516,000 c | 771,600 c |      |       |           |           |      |       |           |           | 50  |
| 55  | 71.6 | 243.2 | 460,000 b | 771,600 b |      |       |           |           |      |       |           |           | 55  |
| 60  | 68.4 | 241.1 | 414,100 b | 703,400 b | 71.7 | 242.6 | 401,000 b | 692,400 b |      |       |           |           | 60  |
| 65  | 65.0 | 238.7 | 375,800 b | 636,100 b | 68.4 | 240.5 | 363,800 b | 626,100 b |      |       |           |           | 65  |
| 70  | 61.6 | 235.9 | 343,300 b | 580,000 b | 65.0 | 238.1 | 332,300 b | 570,900 b |      |       |           |           | 70  |
| 75  | 58.0 | 232.6 | 315,400   | 532,600   | 61.6 | 235.2 | 305,200 b | 524,200 b | 66.7 | 238.0 | 289,900 b | 511,800 b | 75  |
| 80  | 54.3 | 228.9 | 291,200   | 492,000   | 58.0 | 232.0 | 281,700   | 484,200   | 63.3 | 235.4 | 267,500   | 472,700   | 80  |
| 85  | 50.3 | 224.7 | 269,900   | 456,800   | 54.3 | 228.3 | 261,100   | 449,500   | 59.8 | 232.4 | 247,900   | 438,800   | 85  |
| 90  | 46.1 | 219.8 | 251,000   | 425,900   | 50.3 | 224.1 | 242,800   | 419,200   | 56.2 | 228.9 | 230,500   | 409,100   | 90  |
| 95  | 41.5 | 214.0 | 234,200   | 398,600   | 46.1 | 219.2 | 226,500   | 392,300   | 52.3 | 225.0 | 214,900   | 382,900   | 95  |
| 100 | 36.4 | 207.2 | 219,000   | 374,400   | 41.5 | 213.4 | 211,800   | 368,500   | 48.2 | 220.4 | 201,000   | 359,600   | 100 |
| 105 | 30.6 | 198.9 | 205,100   | 352,600   | 36.5 | 206.6 | 198,500   | 347,000   | 43.9 | 215.1 | 188,300   | 338,700   | 105 |
| 110 | 23.2 | 187.8 | 192,300   | 332,900   | 30.6 | 198.3 | 186,300   | 327,700   | 39.1 | 208.9 | 176,800   | 319,900   | 110 |
| 115 | 11.3 | 168.5 | 179,900   | 284,600   | 23.3 | 187.2 | 174,900   | 310,100   | 33.6 | 201.4 | 166,200   | 302,800   | 115 |
| 120 |      |       |           |           | 11.3 | 168.0 | 163,800   | 293,800   | 27.2 | 191.9 | 156,300   | 287,100   | 120 |
| 125 |      |       |           |           |      |       |           |           | 18.4 | 178.2 | 146,900   | 272,700   | 125 |
| 130 |      |       |           |           |      |       |           |           |      |       |           |           | 130 |
| 135 |      |       |           |           |      |       |           |           |      |       |           |           | 135 |
| 140 |      |       |           |           |      |       |           |           |      |       |           |           | 140 |
| 145 |      |       |           |           |      |       |           |           |      |       |           |           | 145 |
| 150 |      |       |           |           |      |       |           |           |      |       |           |           | 150 |
| 155 |      |       |           |           |      |       |           |           |      |       |           |           | 155 |
| 160 |      |       |           |           |      |       |           |           |      |       |           |           | 160 |

# MLC650 VPC-MAX S-1

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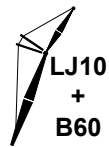
440,900 lb



|     | 75°  |       |         |         | 70°  |       |         |         | 65°  |       |         |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|---------|---------|-----|
|     |      |       |         |         |      |       |         |         |      |       |         |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | ft  |
| 50  |      |       |         |         |      |       |         |         |      |       |         |         | 50  |
| 55  |      |       |         |         |      |       |         |         |      |       |         |         | 55  |
| 60  |      |       |         |         |      |       |         |         |      |       |         |         | 60  |
| 65  |      |       |         |         |      |       |         |         |      |       |         |         | 65  |
| 70  |      |       |         |         |      |       |         |         |      |       |         |         | 70  |
| 75  |      |       |         |         |      |       |         |         |      |       |         |         | 75  |
| 80  |      |       |         |         |      |       |         |         |      |       |         |         | 80  |
| 85  |      |       |         |         |      |       |         |         |      |       |         |         | 85  |
| 90  | 64.9 | 233.6 | 209,800 | 392,600 |      |       |         |         |      |       |         |         | 90  |
| 95  | 61.4 | 230.8 | 195,600 | 367,400 |      |       |         |         |      |       |         |         | 95  |
| 100 | 57.8 | 227.6 | 182,800 | 345,000 |      |       |         |         |      |       |         |         | 100 |
| 105 | 54.1 | 223.8 | 171,200 | 325,000 |      |       |         |         |      |       |         |         | 105 |
| 110 | 50.1 | 219.5 | 160,600 | 306,900 | 59.3 | 224.8 | 144,500 | 294,100 |      |       |         |         | 110 |
| 115 | 45.9 | 214.6 | 151,000 | 290,500 | 55.6 | 221.3 | 135,700 | 278,400 |      |       |         |         | 115 |
| 120 | 41.3 | 208.8 | 142,100 | 275,500 | 51.7 | 217.2 | 127,600 | 264,100 |      |       |         |         | 120 |
| 125 | 36.2 | 202.0 | 133,900 | 261,900 | 47.6 | 212.6 | 120,200 | 251,000 |      |       |         |         | 125 |
| 130 | 30.3 | 193.5 | 126,200 | 249,200 | 43.2 | 207.2 | 113,200 | 238,900 | 53.0 | 213.5 | 100,300 | 228,800 | 130 |
| 135 | 22.9 | 182.2 | 118,800 | 237,500 | 38.3 | 200.8 | 106,800 | 227,800 | 48.9 | 209.0 | 94,400  | 218,100 | 135 |
| 140 | 10.3 | 162.0 | 111,300 | 226,300 | 32.7 | 193.0 | 100,700 | 217,400 | 44.6 | 203.9 | 89,000  | 208,200 | 140 |
| 145 |      |       |         |         | 26.1 | 183.1 | 94,800  | 207,800 | 39.9 | 197.8 | 83,900  | 199,100 | 145 |
| 150 |      |       |         |         | 16.6 | 168.3 | 89,000  | 198,600 | 34.6 | 190.5 | 79,000  | 190,500 | 150 |
| 155 |      |       |         |         |      |       |         |         | 28.3 | 181.4 | 74,300  | 182,400 | 155 |
| 160 |      |       |         |         |      |       |         |         | 20.1 | 168.8 | 69,700  | 174,800 | 160 |

# MLC650 VPC-MAX S-1

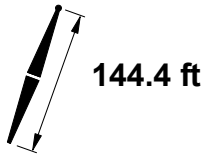
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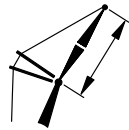
440,900 lb



360°



144.4 ft

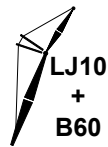


105.0 ft

|     | 85°  |       |           |           | 83°  |       |           |           | 80°  |       |         |         |     |
|-----|------|-------|-----------|-----------|------|-------|-----------|-----------|------|-------|---------|---------|-----|
|     |      |       |           |           |      |       |           |           |      |       |         |         |     |
| ft  | °    | ft    | lb        | lb        | °    | ft    | lb        | lb        | °    | ft    | lb      | lb      | ft  |
| 55  | 73.4 | 253.7 | 458,800 b | 764,900 b |      |       |           |           |      |       |         |         | 55  |
| 60  | 70.5 | 251.8 | 413,000 b | 700,700 b |      |       |           |           |      |       |         |         | 60  |
| 65  | 67.6 | 249.6 | 374,700 b | 633,800 b | 70.5 | 251.2 | 362,500 b | 623,700 b |      |       |         |         | 65  |
| 70  | 64.5 | 247.2 | 342,300 b | 578,000 b | 67.6 | 249.0 | 331,100 b | 568,800 b |      |       |         |         | 70  |
| 75  | 61.4 | 244.3 | 314,500   | 530,800   | 64.5 | 246.5 | 304,100   | 522,300   | 69.1 | 248.8 | 288,500 | 509,700 | 75  |
| 80  | 58.1 | 241.1 | 290,300   | 490,400   | 61.4 | 243.7 | 280,700   | 482,500   | 66.0 | 246.5 | 266,200 | 470,800 | 80  |
| 85  | 54.8 | 237.5 | 269,200   | 455,300   | 58.2 | 240.5 | 260,100   | 448,000   | 63.0 | 243.9 | 246,600 | 437,000 | 85  |
| 90  | 51.2 | 233.4 | 250,400   | 424,600   | 54.8 | 236.9 | 242,000   | 417,700   | 59.8 | 240.9 | 229,300 | 407,500 | 90  |
| 95  | 47.5 | 228.7 | 233,700   | 397,500   | 51.3 | 232.8 | 225,700   | 391,000   | 56.5 | 237.4 | 213,800 | 381,500 | 95  |
| 100 | 43.5 | 223.4 | 218,600   | 373,300   | 47.5 | 228.1 | 211,200   | 367,300   | 53.0 | 233.6 | 200,000 | 358,300 | 100 |
| 105 | 39.2 | 217.2 | 205,000   | 351,700   | 43.5 | 222.8 | 198,000   | 346,000   | 49.4 | 229.2 | 187,500 | 337,500 | 105 |
| 110 | 34.4 | 209.9 | 192,600   | 332,200   | 39.2 | 216.6 | 186,000   | 326,800   | 45.6 | 224.2 | 176,100 | 318,800 | 110 |
| 115 | 28.7 | 200.9 | 181,100   | 314,500   | 34.4 | 209.3 | 175,000   | 309,400   | 41.4 | 218.5 | 165,600 | 301,800 | 115 |
| 120 | 21.7 | 189.0 | 170,400   | 298,300   | 28.8 | 200.3 | 164,800   | 293,500   | 36.8 | 211.8 | 156,000 | 286,300 | 120 |
| 125 | 9.9  | 168.0 | 159,900   | 259,500   | 21.7 | 188.4 | 155,300   | 278,900   | 31.7 | 203.7 | 147,100 | 272,100 | 125 |
| 130 |      |       |           |           | 10.0 | 167.5 | 145,800   | 265,200   | 25.5 | 193.5 | 138,800 | 259,100 | 130 |
| 135 |      |       |           |           |      |       |           |           | 17.0 | 178.9 | 130,700 | 246,900 | 135 |
| 140 |      |       |           |           |      |       |           |           |      |       |         |         | 140 |
| 145 |      |       |           |           |      |       |           |           |      |       |         |         | 145 |
| 150 |      |       |           |           |      |       |           |           |      |       |         |         | 150 |
| 155 |      |       |           |           |      |       |           |           |      |       |         |         | 155 |
| 160 |      |       |           |           |      |       |           |           |      |       |         |         | 160 |
| 165 |      |       |           |           |      |       |           |           |      |       |         |         | 165 |
| 170 |      |       |           |           |      |       |           |           |      |       |         |         | 170 |

# MLC650 VPC-MAX S-1

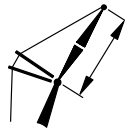
ASME B30.5



440,900 lb



144.4 ft

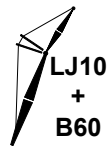


105.0 ft

|     | 75°  |       |         |         | 70°  |       |         |         | 65°  |       |        |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|--------|---------|-----|
|     |      |       |         |         |      |       |         |         |      |       |        |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb     | lb      | ft  |
| 55  |      |       |         |         |      |       |         |         |      |       |        |         | 55  |
| 60  |      |       |         |         |      |       |         |         |      |       |        |         | 60  |
| 65  |      |       |         |         |      |       |         |         |      |       |        |         | 65  |
| 70  |      |       |         |         |      |       |         |         |      |       |        |         | 70  |
| 75  |      |       |         |         |      |       |         |         |      |       |        |         | 75  |
| 80  |      |       |         |         |      |       |         |         |      |       |        |         | 80  |
| 85  |      |       |         |         |      |       |         |         |      |       |        |         | 85  |
| 90  |      |       |         |         |      |       |         |         |      |       |        |         | 90  |
| 95  | 64.4 | 242.1 | 194,000 | 365,700 |      |       |         |         |      |       |        |         | 95  |
| 100 | 61.2 | 239.3 | 181,300 | 343,400 |      |       |         |         |      |       |        |         | 100 |
| 105 | 58.0 | 236.0 | 169,800 | 323,500 |      |       |         |         |      |       |        |         | 105 |
| 110 | 54.6 | 232.4 | 159,400 | 305,500 |      |       |         |         |      |       |        |         | 110 |
| 115 | 51.1 | 228.3 | 149,900 | 289,200 | 59.3 | 233.3 | 134,100 | 276,900 |      |       |        |         | 115 |
| 120 | 47.3 | 223.6 | 141,100 | 274,400 | 56.0 | 229.8 | 126,200 | 262,600 |      |       |        |         | 120 |
| 125 | 43.3 | 218.2 | 133,000 | 260,800 | 52.5 | 225.9 | 118,800 | 249,600 |      |       |        |         | 125 |
| 130 | 39.0 | 212.0 | 125,500 | 248,300 | 48.8 | 221.4 | 112,000 | 237,700 |      |       |        |         | 130 |
| 135 | 34.1 | 204.6 | 118,500 | 236,800 | 45.0 | 216.3 | 105,700 | 226,600 | 53.6 | 222.1 | 92,900 | 216,700 | 135 |
| 140 | 28.5 | 195.5 | 111,900 | 226,100 | 40.8 | 210.5 | 99,800  | 216,400 | 50.0 | 217.8 | 87,600 | 206,900 | 140 |
| 145 | 21.3 | 183.4 | 105,500 | 216,100 | 36.1 | 203.6 | 94,200  | 206,900 | 46.2 | 212.9 | 82,600 | 197,900 | 145 |
| 150 | 8.9  | 161.3 | 98,900  | 206,400 | 30.8 | 195.3 | 88,900  | 198,100 | 42.1 | 207.3 | 77,900 | 189,400 | 150 |
| 155 |      |       |         |         | 24.4 | 184.7 | 83,800  | 189,700 | 37.6 | 200.8 | 73,400 | 181,500 | 155 |
| 160 |      |       |         |         | 15.3 | 168.8 | 78,700  | 181,800 | 32.6 | 193.0 | 69,200 | 174,100 | 160 |
| 165 |      |       |         |         |      |       |         |         | 26.6 | 183.3 | 65,000 | 167,000 | 165 |
| 170 |      |       |         |         |      |       |         |         | 18.7 | 169.7 | 60,900 | 160,300 | 170 |

# MLC650 VPC-MAX S-1

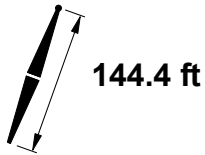
ASME B30.5



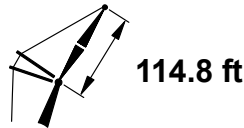
440,900 lb



360°



144.4 ft

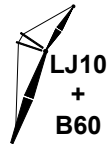


114.8 ft

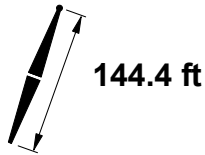
|     | 85°  |       |           |           | 83°  |       |           |           | 80°  |       |         |         |     |
|-----|------|-------|-----------|-----------|------|-------|-----------|-----------|------|-------|---------|---------|-----|
|     |      |       |           |           |      |       |           |           |      |       |         |         |     |
| ft  | °    | ft    | lb        | lb        | °    | ft    | lb        | lb        | °    | ft    | lb      | lb      | ft  |
| 55  | 74.9 | 264.0 | 456,400 b | 724,500 b |      |       |           |           |      |       |         |         | 55  |
| 60  | 72.3 | 262.3 | 410,600 b | 697,300 b |      |       |           |           |      |       |         |         | 60  |
| 65  | 69.6 | 260.4 | 372,400 b | 630,600 b | 72.3 | 261.7 | 359,900 b | 620,400 b |      |       |         |         | 65  |
| 70  | 66.9 | 258.2 | 340,000   | 575,100   | 69.6 | 259.8 | 328,500   | 565,800   |      |       |         |         | 70  |
| 75  | 64.1 | 255.6 | 312,300   | 528,100   | 66.9 | 257.5 | 301,600   | 519,500   |      |       |         |         | 75  |
| 80  | 61.2 | 252.8 | 288,200   | 487,800   | 64.1 | 255.0 | 278,300   | 479,800   | 68.2 | 257.4 | 263,400 | 467,900 | 80  |
| 85  | 58.3 | 249.6 | 267,000   | 452,900   | 61.2 | 252.2 | 257,800   | 445,400   | 65.5 | 255.0 | 243,900 | 434,300 | 85  |
| 90  | 55.2 | 246.1 | 248,300   | 422,300   | 58.3 | 249.0 | 239,700   | 415,300   | 62.7 | 252.3 | 226,700 | 404,900 | 90  |
| 95  | 52.0 | 242.1 | 231,700   | 395,300   | 55.2 | 245.4 | 223,500   | 388,800   | 59.8 | 249.3 | 211,300 | 379,000 | 95  |
| 100 | 48.7 | 237.6 | 216,700   | 371,300   | 52.0 | 241.4 | 209,000   | 365,100   | 56.7 | 246.0 | 197,500 | 355,900 | 100 |
| 105 | 45.1 | 232.5 | 203,200   | 349,800   | 48.7 | 237.0 | 196,000   | 343,900   | 53.6 | 242.2 | 185,100 | 335,200 | 105 |
| 110 | 41.3 | 226.8 | 190,900   | 330,400   | 45.1 | 231.9 | 184,100   | 324,800   | 50.4 | 238.0 | 173,800 | 316,600 | 110 |
| 115 | 37.2 | 220.1 | 179,700   | 312,800   | 41.3 | 226.2 | 173,200   | 307,500   | 46.9 | 233.2 | 163,500 | 299,700 | 115 |
| 120 | 32.6 | 212.3 | 169,300   | 296,700   | 37.2 | 219.5 | 163,200   | 291,800   | 43.2 | 227.8 | 154,000 | 284,300 | 120 |
| 125 | 27.2 | 202.8 | 159,700   | 282,000   | 32.6 | 211.7 | 154,000   | 277,300   | 39.3 | 221.7 | 145,200 | 270,300 | 125 |
| 130 | 20.4 | 190.2 | 150,600   | 268,400   | 27.2 | 202.2 | 145,400   | 264,000   | 34.9 | 214.5 | 137,100 | 257,300 | 130 |
| 135 | 8.7  | 167.3 | 141,500   | 230,400   | 20.4 | 189.6 | 137,200   | 251,700   | 30.0 | 205.9 | 129,500 | 245,400 | 135 |
| 140 |      |       |           |           | 8.8  | 166.8 | 128,900   | 238,600   | 24.0 | 195.1 | 122,400 | 234,300 | 140 |
| 145 |      |       |           |           |      |       |           |           | 15.8 | 179.4 | 115,400 | 223,900 | 145 |
| 150 |      |       |           |           |      |       |           |           |      |       |         |         | 150 |
| 155 |      |       |           |           |      |       |           |           |      |       |         |         | 155 |
| 160 |      |       |           |           |      |       |           |           |      |       |         |         | 160 |
| 165 |      |       |           |           |      |       |           |           |      |       |         |         | 165 |
| 170 |      |       |           |           |      |       |           |           |      |       |         |         | 170 |
| 175 |      |       |           |           |      |       |           |           |      |       |         |         | 175 |
| 180 |      |       |           |           |      |       |           |           |      |       |         |         | 180 |

# MLC650 VPC-MAX S-1

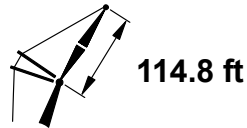
ASME B30.5



440,900 lb



144.4 ft

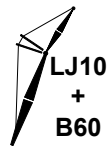


114.8 ft

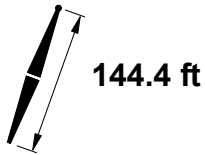
|     | 75°  |       |         |         | 70°  |       |         |         | 65°  |       |        |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|--------|---------|-----|
|     |      |       |         |         |      |       |         |         |      |       |        |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb     | lb      | ft  |
| 55  |      |       |         |         |      |       |         |         |      |       |        |         | 55  |
| 60  |      |       |         |         |      |       |         |         |      |       |        |         | 60  |
| 65  |      |       |         |         |      |       |         |         |      |       |        |         | 65  |
| 70  |      |       |         |         |      |       |         |         |      |       |        |         | 70  |
| 75  |      |       |         |         |      |       |         |         |      |       |        |         | 75  |
| 80  |      |       |         |         |      |       |         |         |      |       |        |         | 80  |
| 85  |      |       |         |         |      |       |         |         |      |       |        |         | 85  |
| 90  |      |       |         |         |      |       |         |         |      |       |        |         | 90  |
| 95  |      |       |         |         |      |       |         |         |      |       |        |         | 95  |
| 100 | 64.0 | 250.6 | 178,400 | 340,800 |      |       |         |         |      |       |        |         | 100 |
| 105 | 61.1 | 247.7 | 167,000 | 320,900 |      |       |         |         |      |       |        |         | 105 |
| 110 | 58.1 | 244.5 | 156,600 | 303,000 |      |       |         |         |      |       |        |         | 110 |
| 115 | 55.1 | 241.0 | 147,200 | 286,800 |      |       |         |         |      |       |        |         | 115 |
| 120 | 51.9 | 236.9 | 138,500 | 272,100 | 59.3 | 241.8 | 123,200 | 260,100 |      |       |        |         | 120 |
| 125 | 48.5 | 232.4 | 130,500 | 258,600 | 56.3 | 238.4 | 115,900 | 247,100 |      |       |        |         | 125 |
| 130 | 45.0 | 227.4 | 123,200 | 246,200 | 53.1 | 234.5 | 109,200 | 235,300 |      |       |        |         | 130 |
| 135 | 41.1 | 221.6 | 116,300 | 234,800 | 49.9 | 230.2 | 102,900 | 224,300 |      |       |        |         | 135 |
| 140 | 37.0 | 214.9 | 109,900 | 224,200 | 46.4 | 225.4 | 97,100  | 214,200 | 54.1 | 230.7 | 84,600 | 204,500 | 140 |
| 145 | 32.3 | 207.0 | 103,800 | 214,400 | 42.7 | 219.9 | 91,700  | 204,800 | 50.9 | 226.5 | 79,600 | 195,500 | 145 |
| 150 | 26.9 | 197.4 | 98,100  | 205,200 | 38.7 | 213.6 | 86,600  | 196,100 | 47.5 | 221.9 | 75,000 | 187,100 | 150 |
| 155 | 20.0 | 184.5 | 92,500  | 196,500 | 34.2 | 206.2 | 81,700  | 187,900 | 43.9 | 216.6 | 70,700 | 179,300 | 155 |
| 160 | 7.6  | 160.2 | 86,600  | 188,100 | 29.2 | 197.4 | 77,100  | 180,200 | 40.0 | 210.6 | 66,600 | 171,900 | 160 |
| 165 |      |       |         |         | 23.0 | 186.1 | 72,600  | 172,900 | 35.7 | 203.6 | 62,700 | 165,000 | 165 |
| 170 |      |       |         |         | 14.2 | 169.1 | 68,100  | 165,900 | 30.9 | 195.3 | 59,000 | 158,500 | 170 |
| 175 |      |       |         |         |      |       |         |         | 25.1 | 184.9 | 55,300 | 152,400 | 175 |
| 180 |      |       |         |         |      |       |         |         | 17.5 | 170.5 | 51,600 | 146,400 | 180 |

# MLC650 VPC-MAX S-1

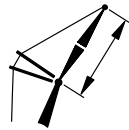
ASME B30.5



440,900 lb



144.4 ft

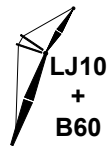


124.7 ft

|     | 85°  |       |           |           | 83°  |       |         |         | 80°  |       |         |         |     |
|-----|------|-------|-----------|-----------|------|-------|---------|---------|------|-------|---------|---------|-----|
|     |      |       |           |           |      |       |         |         |      |       |         |         |     |
| ft  | °    | ft    | lb        | lb        | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | ft  |
| 60  | 73.7 | 272.7 | 444,700 b | 664,400 b |      |       |         |         |      |       |         |         | 60  |
| 65  | 71.3 | 271.0 | 403,800   | 629,300   |      |       |         |         |      |       |         |         | 65  |
| 70  | 68.8 | 269.0 | 369,000   | 574,000   | 71.3 | 270.3 | 357,400 | 564,600 |      |       |         |         | 70  |
| 75  | 66.3 | 266.7 | 339,300   | 527,300   | 68.8 | 268.3 | 328,500 | 518,600 |      |       |         |         | 75  |
| 80  | 63.7 | 264.1 | 313,400   | 487,100   | 66.3 | 266.0 | 303,400 | 479,100 |      |       |         |         | 80  |
| 85  | 61.1 | 261.3 | 290,800   | 452,300   | 63.7 | 263.5 | 281,400 | 444,800 | 67.6 | 265.9 | 267,400 | 433,700 | 85  |
| 90  | 58.4 | 258.1 | 270,800   | 421,900   | 61.1 | 260.6 | 262,000 | 414,900 | 65.0 | 263.5 | 248,800 | 404,400 | 90  |
| 95  | 55.6 | 254.6 | 252,900   | 395,000   | 58.4 | 257.5 | 244,700 | 388,400 | 62.4 | 260.8 | 232,300 | 378,500 | 95  |
| 100 | 52.6 | 250.7 | 237,000   | 371,100   | 55.6 | 254.0 | 229,200 | 364,800 | 59.7 | 257.8 | 217,500 | 355,500 | 100 |
| 105 | 49.6 | 246.4 | 222,500   | 349,600   | 52.7 | 250.1 | 215,200 | 343,700 | 57.0 | 254.5 | 204,100 | 335,000 | 105 |
| 110 | 46.4 | 241.5 | 209,500   | 330,300   | 49.6 | 245.7 | 202,500 | 324,700 | 54.1 | 250.8 | 192,000 | 316,400 | 110 |
| 115 | 43.0 | 236.1 | 197,500   | 312,800   | 46.4 | 240.9 | 190,900 | 307,500 | 51.1 | 246.7 | 180,900 | 299,600 | 115 |
| 120 | 39.4 | 230.0 | 186,600   | 296,900   | 43.0 | 235.5 | 180,300 | 291,800 | 48.0 | 242.1 | 170,800 | 284,300 | 120 |
| 125 | 35.4 | 222.9 | 176,400   | 282,300   | 39.4 | 229.4 | 170,500 | 277,500 | 44.7 | 237.0 | 161,500 | 270,300 | 125 |
| 130 | 31.0 | 214.7 | 167,100   | 268,900   | 35.4 | 222.3 | 161,400 | 264,300 | 41.2 | 231.2 | 152,800 | 257,500 | 130 |
| 135 | 25.8 | 204.6 | 158,300   | 256,500   | 31.0 | 214.1 | 153,000 | 252,200 | 37.4 | 224.6 | 144,800 | 245,600 | 135 |
| 140 | 19.2 | 191.2 | 149,900   | 245,000   | 25.8 | 204.0 | 145,000 | 240,900 | 33.3 | 217.0 | 137,300 | 234,700 | 140 |
| 145 | 7.5  | 166.2 | 141,500   | 207,700   | 19.3 | 190.6 | 137,400 | 230,300 | 28.5 | 208.0 | 130,300 | 224,500 | 145 |
| 150 |      |       |           |           | 7.6  | 165.8 | 129,700 | 215,300 | 22.8 | 196.5 | 123,600 | 214,900 | 150 |
| 155 |      |       |           |           |      |       |         |         | 14.8 | 179.9 | 117,000 | 205,900 | 155 |
| 160 |      |       |           |           |      |       |         |         |      |       |         |         | 160 |
| 165 |      |       |           |           |      |       |         |         |      |       |         |         | 165 |
| 170 |      |       |           |           |      |       |         |         |      |       |         |         | 170 |
| 175 |      |       |           |           |      |       |         |         |      |       |         |         | 175 |
| 180 |      |       |           |           |      |       |         |         |      |       |         |         | 180 |
| 185 |      |       |           |           |      |       |         |         |      |       |         |         | 185 |
| 190 |      |       |           |           |      |       |         |         |      |       |         |         | 190 |

# MLC650 VPC-MAX S-1

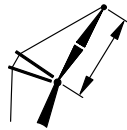
ASME B30.5



440,900 lb



144.4 ft

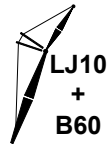


124.7 ft

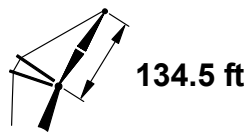
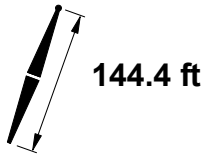
|     | 75°  |       |         |         | 70°  |       |         |         | 65°  |       |        |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|--------|---------|-----|
|     |      |       |         |         |      |       |         |         |      |       |        |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb     | lb      | ft  |
| 60  |      |       |         |         |      |       |         |         |      |       |        |         | 60  |
| 65  |      |       |         |         |      |       |         |         |      |       |        |         | 65  |
| 70  |      |       |         |         |      |       |         |         |      |       |        |         | 70  |
| 75  |      |       |         |         |      |       |         |         |      |       |        |         | 75  |
| 80  |      |       |         |         |      |       |         |         |      |       |        |         | 80  |
| 85  |      |       |         |         |      |       |         |         |      |       |        |         | 85  |
| 90  |      |       |         |         |      |       |         |         |      |       |        |         | 90  |
| 95  |      |       |         |         |      |       |         |         |      |       |        |         | 95  |
| 100 |      |       |         |         |      |       |         |         |      |       |        |         | 100 |
| 105 | 63.6 | 259.1 | 185,800 | 320,500 |      |       |         |         |      |       |        |         | 105 |
| 110 | 61.0 | 256.2 | 174,600 | 302,700 |      |       |         |         |      |       |        |         | 110 |
| 115 | 58.2 | 253.0 | 164,400 | 286,600 |      |       |         |         |      |       |        |         | 115 |
| 120 | 55.4 | 249.5 | 155,000 | 271,900 |      |       |         |         |      |       |        |         | 120 |
| 125 | 52.5 | 245.6 | 146,400 | 258,500 | 59.3 | 250.3 | 131,600 | 246,900 |      |       |        |         | 125 |
| 130 | 49.5 | 241.2 | 138,500 | 246,200 | 56.5 | 246.9 | 124,300 | 235,100 |      |       |        |         | 130 |
| 135 | 46.3 | 236.4 | 131,100 | 234,800 | 53.7 | 243.1 | 117,500 | 224,200 |      |       |        |         | 135 |
| 140 | 42.9 | 230.9 | 124,300 | 224,300 | 50.7 | 238.9 | 111,300 | 214,200 |      |       |        |         | 140 |
| 145 | 39.2 | 224.7 | 117,900 | 214,600 | 47.5 | 234.3 | 105,400 | 204,900 | 54.6 | 239.2 | 93,100 | 195,400 | 145 |
| 150 | 35.2 | 217.7 | 111,800 | 205,500 | 44.2 | 229.1 | 99,900  | 196,200 | 51.6 | 235.2 | 88,100 | 187,100 | 150 |
| 155 | 30.8 | 209.3 | 106,200 | 197,000 | 40.7 | 223.2 | 94,700  | 188,000 | 48.6 | 230.7 | 83,400 | 179,300 | 155 |
| 160 | 25.5 | 199.1 | 100,700 | 189,000 | 36.8 | 216.5 | 89,900  | 180,500 | 45.3 | 225.7 | 79,000 | 172,000 | 160 |
| 165 | 18.9 | 185.5 | 95,400  | 181,500 | 32.6 | 208.7 | 85,200  | 173,300 | 41.8 | 220.0 | 74,800 | 165,200 | 165 |
| 170 | 6.3  | 158.7 | 89,800  | 174,000 | 27.7 | 199.4 | 80,800  | 166,600 | 38.1 | 213.6 | 70,800 | 158,800 | 170 |
| 175 |      |       |         |         | 21.8 | 187.4 | 76,500  | 160,200 | 34.0 | 206.2 | 67,100 | 152,700 | 175 |
| 180 |      |       |         |         | 13.1 | 169.3 | 72,100  | 154,000 | 29.3 | 197.4 | 63,400 | 147,000 | 180 |
| 185 |      |       |         |         |      |       |         |         | 23.8 | 186.5 | 59,900 | 141,500 | 185 |
| 190 |      |       |         |         |      |       |         |         | 16.4 | 171.1 | 56,300 | 136,200 | 190 |

# MLC650 VPC-MAX S-1

ASME B30.5



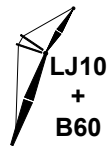
440,900 lb



|     | 85°  |       |           |           | 83°  |       |         |         | 80°  |       |         |         |     |
|-----|------|-------|-----------|-----------|------|-------|---------|---------|------|-------|---------|---------|-----|
|     |      |       |           |           |      |       |         |         |      |       |         |         |     |
| ft  | °    | ft    | lb        | lb        | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | ft  |
| 60  | 75.0 | 283.1 | 442,400 b | 623,300 b |      |       |         |         |      |       |         |         | 60  |
| 65  | 72.7 | 281.4 | 401,400   | 612,600   |      |       |         |         |      |       |         |         | 65  |
| 70  | 70.5 | 279.6 | 366,700   | 571,200   | 72.7 | 280.8 | 354,900 | 561,600 |      |       |         |         | 70  |
| 75  | 68.2 | 277.5 | 337,000   | 524,600   | 70.5 | 279.0 | 326,000 | 515,800 |      |       |         |         | 75  |
| 80  | 65.8 | 275.2 | 311,200   | 484,600   | 68.2 | 276.9 | 300,900 | 476,400 |      |       |         |         | 80  |
| 85  | 63.4 | 272.6 | 288,600   | 449,900   | 65.8 | 274.6 | 279,000 | 442,300 | 69.3 | 276.6 | 264,700 | 431,000 | 85  |
| 90  | 61.0 | 269.7 | 268,600   | 419,600   | 63.4 | 272.0 | 259,600 | 412,400 | 67.0 | 274.4 | 246,200 | 401,800 | 90  |
| 95  | 58.4 | 266.6 | 250,800   | 392,800   | 61.0 | 269.1 | 242,300 | 386,100 | 64.6 | 272.0 | 229,700 | 376,100 | 95  |
| 100 | 55.9 | 263.1 | 234,900   | 368,900   | 58.5 | 266.0 | 226,900 | 362,600 | 62.2 | 269.3 | 214,900 | 353,200 | 100 |
| 105 | 53.2 | 259.3 | 220,500   | 347,600   | 55.9 | 262.5 | 212,900 | 341,600 | 59.7 | 266.3 | 201,600 | 332,600 | 105 |
| 110 | 50.4 | 255.1 | 207,400   | 328,300   | 53.2 | 258.7 | 200,300 | 322,600 | 57.2 | 263.0 | 189,500 | 314,200 | 110 |
| 115 | 47.5 | 250.4 | 195,600   | 310,900   | 50.4 | 254.5 | 188,700 | 305,500 | 54.5 | 259.3 | 178,500 | 297,400 | 115 |
| 120 | 44.4 | 245.3 | 184,700   | 295,000   | 47.5 | 249.8 | 178,200 | 289,900 | 51.8 | 255.3 | 168,400 | 282,200 | 120 |
| 125 | 41.2 | 239.5 | 174,600   | 280,500   | 44.4 | 244.7 | 168,500 | 275,600 | 49.0 | 250.9 | 159,200 | 268,300 | 125 |
| 130 | 37.7 | 233.0 | 165,400   | 267,200   | 41.2 | 238.9 | 159,500 | 262,500 | 46.0 | 246.0 | 150,600 | 255,500 | 130 |
| 135 | 33.9 | 225.6 | 156,800   | 254,900   | 37.7 | 232.4 | 151,200 | 250,400 | 42.8 | 240.5 | 142,700 | 243,700 | 135 |
| 140 | 29.6 | 216.8 | 148,700   | 243,500   | 33.9 | 224.9 | 143,400 | 239,200 | 39.5 | 234.4 | 135,300 | 232,800 | 140 |
| 145 | 24.6 | 206.2 | 141,100   | 232,900   | 29.6 | 216.2 | 136,100 | 228,800 | 35.8 | 227.5 | 128,400 | 222,700 | 145 |
| 150 | 18.2 | 192.1 | 133,900   | 223,000   | 24.6 | 205.6 | 129,200 | 219,100 | 31.8 | 219.5 | 121,900 | 213,300 | 150 |
| 155 | 6.4  | 164.8 | 126,400   | 185,400   | 18.2 | 191.5 | 122,600 | 210,000 | 27.2 | 209.9 | 115,800 | 204,500 | 155 |
| 160 |      |       |           |           | 6.5  | 164.4 | 115,700 | 192,400 | 21.6 | 197.8 | 109,900 | 196,200 | 160 |
| 165 |      |       |           |           |      |       |         |         | 13.8 | 180.2 | 104,100 | 188,300 | 165 |
| 170 |      |       |           |           |      |       |         |         |      |       |         |         | 170 |
| 175 |      |       |           |           |      |       |         |         |      |       |         |         | 175 |
| 180 |      |       |           |           |      |       |         |         |      |       |         |         | 180 |
| 185 |      |       |           |           |      |       |         |         |      |       |         |         | 185 |
| 190 |      |       |           |           |      |       |         |         |      |       |         |         | 190 |
| 195 |      |       |           |           |      |       |         |         |      |       |         |         | 195 |
| 200 |      |       |           |           |      |       |         |         |      |       |         |         | 200 |

# MLC650 VPC-MAX S-1

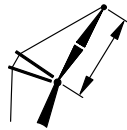
ASME B30.5



440,900 lb



144.4 ft

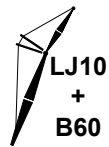


134.5 ft

|     | 75°  |       |         |         | 70°  |       |         |         | 65°  |       |        |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|--------|---------|-----|
|     |      |       |         |         |      |       |         |         |      |       |        |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb     | lb      | ft  |
| 60  |      |       |         |         |      |       |         |         |      |       |        |         | 60  |
| 65  |      |       |         |         |      |       |         |         |      |       |        |         | 65  |
| 70  |      |       |         |         |      |       |         |         |      |       |        |         | 70  |
| 75  |      |       |         |         |      |       |         |         |      |       |        |         | 75  |
| 80  |      |       |         |         |      |       |         |         |      |       |        |         | 80  |
| 85  |      |       |         |         |      |       |         |         |      |       |        |         | 85  |
| 90  |      |       |         |         |      |       |         |         |      |       |        |         | 90  |
| 95  |      |       |         |         |      |       |         |         |      |       |        |         | 95  |
| 100 |      |       |         |         |      |       |         |         |      |       |        |         | 100 |
| 105 |      |       |         |         |      |       |         |         |      |       |        |         | 105 |
| 110 | 63.3 | 267.5 | 171,700 | 300,200 |      |       |         |         |      |       |        |         | 110 |
| 115 | 60.8 | 264.7 | 161,600 | 284,200 |      |       |         |         |      |       |        |         | 115 |
| 120 | 58.3 | 261.5 | 152,300 | 269,600 |      |       |         |         |      |       |        |         | 120 |
| 125 | 55.7 | 258.0 | 143,800 | 256,200 |      |       |         |         |      |       |        |         | 125 |
| 130 | 53.1 | 254.2 | 135,900 | 244,000 | 59.3 | 258.7 | 121,300 | 232,700 |      |       |        |         | 130 |
| 135 | 50.3 | 250.0 | 128,600 | 232,700 | 56.8 | 255.4 | 114,600 | 221,900 |      |       |        |         | 135 |
| 140 | 47.4 | 245.3 | 121,800 | 222,200 | 54.1 | 251.7 | 108,400 | 211,900 |      |       |        |         | 140 |
| 145 | 44.3 | 240.1 | 115,500 | 212,500 | 51.4 | 247.6 | 102,600 | 202,600 |      |       |        |         | 145 |
| 150 | 41.0 | 234.3 | 109,600 | 203,500 | 48.5 | 243.1 | 97,200  | 194,000 | 55.0 | 247.8 | 85,100 | 184,600 | 150 |
| 155 | 37.5 | 227.8 | 104,000 | 195,100 | 45.5 | 238.2 | 92,100  | 185,900 | 52.3 | 243.9 | 80,500 | 176,900 | 155 |
| 160 | 33.7 | 220.3 | 98,700  | 187,200 | 42.3 | 232.6 | 87,400  | 178,400 | 49.4 | 239.5 | 76,100 | 169,700 | 160 |
| 165 | 29.4 | 211.5 | 93,700  | 179,800 | 38.9 | 226.4 | 82,800  | 171,300 | 46.5 | 234.7 | 72,000 | 163,000 | 165 |
| 170 | 24.3 | 200.7 | 88,900  | 172,800 | 35.2 | 219.3 | 78,500  | 164,600 | 43.4 | 229.3 | 68,100 | 156,600 | 170 |
| 175 | 17.8 | 186.4 | 84,200  | 166,100 | 31.1 | 211.1 | 74,400  | 158,400 | 40.0 | 223.3 | 64,500 | 150,600 | 175 |
| 180 | 4.9  | 156.5 | 79,100  | 159,500 | 26.4 | 201.2 | 70,500  | 152,400 | 36.4 | 216.5 | 60,900 | 145,000 | 180 |
| 185 |      |       |         |         | 20.7 | 188.6 | 66,600  | 146,700 | 32.5 | 208.7 | 57,600 | 139,600 | 185 |
| 190 |      |       |         |         | 12.2 | 169.3 | 62,700  | 141,200 | 28.0 | 199.4 | 54,300 | 134,500 | 190 |
| 195 |      |       |         |         |      |       |         |         | 22.6 | 187.9 | 51,100 | 129,600 | 195 |
| 200 |      |       |         |         |      |       |         |         | 15.4 | 171.7 | 47,900 | 124,800 | 200 |

# MLC650 VPC-MAX S-1

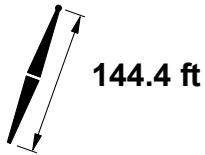
ASME B30.5



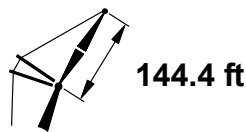
440,900 lb



360°



144.4 ft

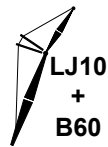


144.4 ft

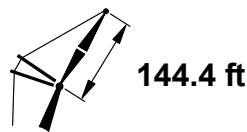
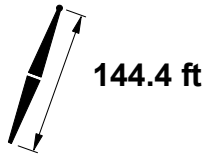
|     | 85°  |       |         |         | 83°  |       |         |         | 80°  |       |         |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|---------|---------|-----|
|     |      |       |         |         |      |       |         |         |      |       |         |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | ft  |
| 65  | 73.9 | 291.8 | 399,700 | 573,800 |      |       |         |         |      |       |         |         | 65  |
| 70  | 71.9 | 290.1 | 365,000 | 564,300 |      |       |         |         |      |       |         |         | 70  |
| 75  | 69.7 | 288.2 | 335,300 | 522,300 | 71.9 | 289.5 | 324,200 | 513,400 |      |       |         |         | 75  |
| 80  | 67.6 | 286.0 | 309,500 | 482,500 | 69.7 | 287.5 | 299,200 | 474,200 |      |       |         |         | 80  |
| 85  | 65.4 | 283.7 | 286,900 | 447,900 | 67.6 | 285.4 | 277,300 | 440,200 |      |       |         |         | 85  |
| 90  | 63.1 | 281.1 | 267,000 | 417,700 | 65.4 | 283.1 | 257,900 | 410,500 | 68.7 | 285.2 | 244,300 | 399,800 | 90  |
| 95  | 60.9 | 278.2 | 249,200 | 391,000 | 63.2 | 280.5 | 240,700 | 384,200 | 66.5 | 283.0 | 227,900 | 374,100 | 95  |
| 100 | 58.5 | 275.1 | 233,300 | 367,200 | 60.9 | 277.6 | 225,200 | 360,800 | 64.3 | 280.5 | 213,100 | 351,300 | 100 |
| 105 | 56.1 | 271.7 | 219,000 | 345,900 | 58.5 | 274.5 | 211,300 | 339,800 | 62.0 | 277.8 | 199,800 | 330,800 | 105 |
| 110 | 53.6 | 267.9 | 206,000 | 326,700 | 56.1 | 271.0 | 198,700 | 321,000 | 59.7 | 274.8 | 187,800 | 312,400 | 110 |
| 115 | 51.1 | 263.8 | 194,100 | 309,400 | 53.6 | 267.3 | 187,200 | 303,900 | 57.3 | 271.5 | 176,800 | 295,700 | 115 |
| 120 | 48.4 | 259.3 | 183,300 | 293,500 | 51.1 | 263.2 | 176,700 | 288,300 | 54.9 | 267.9 | 166,800 | 280,600 | 120 |
| 125 | 45.6 | 254.3 | 173,300 | 279,100 | 48.4 | 258.7 | 167,000 | 274,100 | 52.4 | 264.0 | 157,600 | 266,700 | 125 |
| 130 | 42.7 | 248.8 | 164,100 | 265,800 | 45.6 | 253.7 | 158,100 | 261,100 | 49.7 | 259.7 | 149,100 | 254,000 | 130 |
| 135 | 39.5 | 242.7 | 155,600 | 253,600 | 42.7 | 248.2 | 149,800 | 249,000 | 47.0 | 254.9 | 141,200 | 242,200 | 135 |
| 140 | 36.2 | 235.9 | 147,600 | 242,300 | 39.5 | 242.1 | 142,100 | 237,900 | 44.1 | 249.7 | 133,900 | 231,400 | 140 |
| 145 | 32.5 | 228.0 | 140,200 | 231,800 | 36.2 | 235.3 | 135,000 | 227,600 | 41.1 | 243.9 | 127,000 | 221,300 | 145 |
| 150 | 28.3 | 218.9 | 133,200 | 222,000 | 32.5 | 227.4 | 128,200 | 218,000 | 37.9 | 237.5 | 120,600 | 212,000 | 150 |
| 155 | 23.5 | 207.7 | 126,600 | 212,800 | 28.3 | 218.3 | 121,900 | 209,000 | 34.4 | 230.2 | 114,600 | 203,200 | 155 |
| 160 | 17.3 | 192.9 | 120,200 | 204,200 | 23.5 | 207.1 | 115,800 | 200,600 | 30.5 | 221.7 | 108,900 | 195,000 | 160 |
| 165 | 5.1  | 162.7 | 113,500 | 166,000 | 17.3 | 192.3 | 110,000 | 192,600 | 26.0 | 211.7 | 103,500 | 187,300 | 165 |
| 170 |      |       |         |         | 5.2  | 162.4 | 103,800 | 172,500 | 20.6 | 199.0 | 98,300  | 180,100 | 170 |
| 175 |      |       |         |         |      |       |         |         | 12.9 | 180.4 | 93,200  | 173,100 | 175 |
| 180 |      |       |         |         |      |       |         |         |      |       |         |         | 180 |
| 185 |      |       |         |         |      |       |         |         |      |       |         |         | 185 |
| 190 |      |       |         |         |      |       |         |         |      |       |         |         | 190 |
| 195 |      |       |         |         |      |       |         |         |      |       |         |         | 195 |
| 200 |      |       |         |         |      |       |         |         |      |       |         |         | 200 |
| 205 |      |       |         |         |      |       |         |         |      |       |         |         | 205 |
| 210 |      |       |         |         |      |       |         |         |      |       |         |         | 210 |

# MLC650 VPC-MAX S-1

ASME B30.5



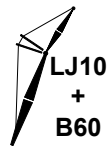
440,900 lb



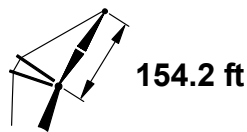
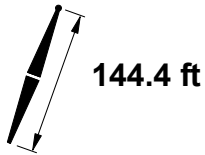
|     | 75°  |       |         |         | 70°  |       |         |         | 65°  |       |        |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|--------|---------|-----|
|     |      |       |         |         |      |       |         |         |      |       |        |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb     | lb      | ft  |
| 65  |      |       |         |         |      |       |         |         |      |       |        |         | 65  |
| 70  |      |       |         |         |      |       |         |         |      |       |        |         | 70  |
| 75  |      |       |         |         |      |       |         |         |      |       |        |         | 75  |
| 80  |      |       |         |         |      |       |         |         |      |       |        |         | 80  |
| 85  |      |       |         |         |      |       |         |         |      |       |        |         | 85  |
| 90  |      |       |         |         |      |       |         |         |      |       |        |         | 90  |
| 95  |      |       |         |         |      |       |         |         |      |       |        |         | 95  |
| 100 |      |       |         |         |      |       |         |         |      |       |        |         | 100 |
| 105 |      |       |         |         |      |       |         |         |      |       |        |         | 105 |
| 110 |      |       |         |         |      |       |         |         |      |       |        |         | 110 |
| 115 | 63.0 | 276.0 | 159,700 | 282,400 |      |       |         |         |      |       |        |         | 115 |
| 120 | 60.8 | 273.2 | 150,400 | 267,800 |      |       |         |         |      |       |        |         | 120 |
| 125 | 58.4 | 270.0 | 141,900 | 254,500 |      |       |         |         |      |       |        |         | 125 |
| 130 | 56.0 | 266.6 | 134,100 | 242,300 |      |       |         |         |      |       |        |         | 130 |
| 135 | 53.5 | 262.8 | 126,800 | 231,100 | 59.3 | 267.2 | 112,700 | 220,100 |      |       |        |         | 135 |
| 140 | 50.9 | 258.7 | 120,100 | 220,700 | 57.0 | 263.9 | 106,500 | 210,200 |      |       |        |         | 140 |
| 145 | 48.3 | 254.1 | 113,800 | 211,000 | 54.5 | 260.3 | 100,800 | 200,900 |      |       |        |         | 145 |
| 150 | 45.5 | 249.2 | 108,000 | 202,100 | 52.0 | 256.3 | 95,400  | 192,400 |      |       |        |         | 150 |
| 155 | 42.5 | 243.7 | 102,400 | 193,700 | 49.3 | 251.9 | 90,400  | 184,300 |      |       |        |         | 155 |
| 160 | 39.4 | 237.5 | 97,300  | 185,900 | 46.6 | 247.1 | 85,600  | 176,900 | 52.8 | 252.5 | 74,200 | 168,100 | 160 |
| 165 | 36.0 | 230.6 | 92,400  | 178,500 | 43.7 | 241.8 | 81,200  | 169,800 | 50.2 | 248.2 | 70,200 | 161,400 | 165 |
| 170 | 32.3 | 222.7 | 87,700  | 171,600 | 40.6 | 236.0 | 77,000  | 163,200 | 47.5 | 243.6 | 66,300 | 155,100 | 170 |
| 175 | 28.1 | 213.5 | 83,300  | 165,100 | 37.4 | 229.4 | 72,900  | 157,000 | 44.6 | 238.5 | 62,700 | 149,100 | 175 |
| 180 | 23.2 | 202.2 | 79,000  | 158,900 | 33.8 | 221.9 | 69,100  | 151,100 | 41.6 | 232.8 | 59,200 | 143,500 | 180 |
| 185 | 16.9 | 187.1 | 74,800  | 153,000 | 29.8 | 213.3 | 65,500  | 145,600 | 38.4 | 226.4 | 56,000 | 138,200 | 185 |
| 190 | 2.8  | 152.0 | 70,000  | 147,000 | 25.3 | 202.9 | 61,900  | 140,300 | 35.0 | 219.3 | 52,800 | 133,200 | 190 |
| 195 |      |       |         |         | 19.7 | 189.7 | 58,500  | 135,200 | 31.1 | 211.1 | 49,800 | 128,400 | 195 |
| 200 |      |       |         |         | 11.3 | 169.2 | 54,900  | 130,200 | 26.8 | 201.3 | 46,900 | 123,800 | 200 |
| 205 |      |       |         |         |      |       |         |         | 21.6 | 189.2 | 44,000 | 119,400 | 205 |
| 210 |      |       |         |         |      |       |         |         | 14.5 | 172.1 | 41,000 | 115,100 | 210 |

# MLC650 VPC-MAX S-1

ASME B30.5



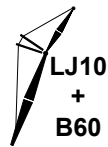
440,900 lb



|     | 85°  |       |         |         | 83°  |       |         |         | 80°  |       |         |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|---------|---------|-----|
|     |      |       |         |         |      |       |         |         |      |       |         |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | ft  |
| 70  | 73.1 | 300.5 | 391,400 | 532,100 |      |       |         |         |      |       |         |         | 70  |
| 75  | 71.1 | 298.7 | 359,700 | 519,600 |      |       |         |         |      |       |         |         | 75  |
| 80  | 69.1 | 296.8 | 332,100 | 479,900 | 71.1 | 298.1 | 321,600 | 471,600 |      |       |         |         | 80  |
| 85  | 67.1 | 294.6 | 308,000 | 445,500 | 69.1 | 296.1 | 298,100 | 437,700 |      |       |         |         | 85  |
| 90  | 65.0 | 292.2 | 286,700 | 415,400 | 67.1 | 294.0 | 277,400 | 408,100 |      |       |         |         | 90  |
| 95  | 62.9 | 289.6 | 267,700 | 388,700 | 65.0 | 291.6 | 259,000 | 381,900 | 68.1 | 293.8 | 245,900 | 371,600 | 95  |
| 100 | 60.8 | 286.7 | 250,800 | 365,000 | 62.9 | 288.9 | 242,500 | 358,500 | 66.0 | 291.5 | 230,100 | 348,900 | 100 |
| 105 | 58.6 | 283.6 | 235,500 | 343,800 | 60.8 | 286.1 | 227,600 | 337,700 | 64.0 | 289.0 | 215,900 | 328,500 | 105 |
| 110 | 56.3 | 280.2 | 221,600 | 324,700 | 58.6 | 282.9 | 214,200 | 318,900 | 61.8 | 286.2 | 203,000 | 310,200 | 110 |
| 115 | 54.0 | 276.5 | 209,000 | 307,400 | 56.3 | 279.5 | 201,900 | 301,800 | 59.7 | 283.2 | 191,300 | 293,500 | 115 |
| 120 | 51.6 | 272.5 | 197,400 | 291,600 | 54.0 | 275.9 | 190,700 | 286,300 | 57.5 | 280.0 | 180,600 | 278,400 | 120 |
| 125 | 49.2 | 268.1 | 186,800 | 277,200 | 51.6 | 271.8 | 180,400 | 272,200 | 55.2 | 276.4 | 170,700 | 264,600 | 125 |
| 130 | 46.6 | 263.3 | 177,100 | 264,000 | 49.2 | 267.5 | 170,900 | 259,100 | 52.8 | 272.6 | 161,600 | 251,900 | 130 |
| 135 | 43.9 | 258.0 | 168,000 | 251,800 | 46.6 | 262.7 | 162,100 | 247,200 | 50.4 | 268.4 | 153,200 | 240,200 | 135 |
| 140 | 41.1 | 252.2 | 159,600 | 240,500 | 43.9 | 257.4 | 153,900 | 236,100 | 47.9 | 263.8 | 145,400 | 229,400 | 140 |
| 145 | 38.0 | 245.8 | 151,700 | 230,100 | 41.1 | 251.6 | 146,300 | 225,800 | 45.3 | 258.8 | 138,100 | 219,400 | 145 |
| 150 | 34.8 | 238.6 | 144,400 | 220,400 | 38.1 | 245.2 | 139,200 | 216,200 | 42.5 | 253.3 | 131,300 | 210,100 | 150 |
| 155 | 31.2 | 230.4 | 137,500 | 211,300 | 34.8 | 238.0 | 132,500 | 207,300 | 39.6 | 247.2 | 124,900 | 201,400 | 155 |
| 160 | 27.2 | 220.8 | 131,000 | 202,800 | 31.2 | 229.8 | 126,200 | 199,000 | 36.4 | 240.4 | 119,000 | 193,300 | 160 |
| 165 | 22.5 | 209.2 | 124,700 | 194,800 | 27.2 | 220.2 | 120,200 | 191,100 | 33.0 | 232.7 | 113,300 | 185,600 | 165 |
| 170 | 16.4 | 193.6 | 118,700 | 187,200 | 22.5 | 208.6 | 114,500 | 183,700 | 29.3 | 223.9 | 107,900 | 178,500 | 170 |
| 175 | 3.5  | 159.4 | 112,300 | 146,800 | 16.4 | 193.0 | 109,000 | 176,700 | 25.0 | 213.4 | 102,800 | 171,700 | 175 |
| 180 |      |       |         |         | 3.7  | 159.3 | 103,000 | 153,100 | 19.7 | 200.1 | 97,800  | 165,200 | 180 |
| 185 |      |       |         |         |      |       |         |         | 12.1 | 180.5 | 92,900  | 159,000 | 185 |
| 190 |      |       |         |         |      |       |         |         |      |       |         |         | 190 |
| 195 |      |       |         |         |      |       |         |         |      |       |         |         | 195 |
| 200 |      |       |         |         |      |       |         |         |      |       |         |         | 200 |
| 205 |      |       |         |         |      |       |         |         |      |       |         |         | 205 |
| 210 |      |       |         |         |      |       |         |         |      |       |         |         | 210 |
| 215 |      |       |         |         |      |       |         |         |      |       |         |         | 215 |
| 220 |      |       |         |         |      |       |         |         |      |       |         |         | 220 |

# MLC650 VPC-MAX S-1

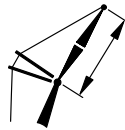
ASME B30.5



440,900 lb



144.4 ft

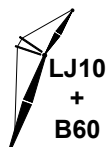


154.2 ft

|     | 75°  |       |         |         | 70°  |       |         |         | 65°  |       |        |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|--------|---------|-----|
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb     | lb      | ft  |
| 70  |      |       |         |         |      |       |         |         |      |       |        |         | 70  |
| 75  |      |       |         |         |      |       |         |         |      |       |        |         | 75  |
| 80  |      |       |         |         |      |       |         |         |      |       |        |         | 80  |
| 85  |      |       |         |         |      |       |         |         |      |       |        |         | 85  |
| 90  |      |       |         |         |      |       |         |         |      |       |        |         | 90  |
| 95  |      |       |         |         |      |       |         |         |      |       |        |         | 95  |
| 100 |      |       |         |         |      |       |         |         |      |       |        |         | 100 |
| 105 |      |       |         |         |      |       |         |         |      |       |        |         | 105 |
| 110 |      |       |         |         |      |       |         |         |      |       |        |         | 110 |
| 115 | 64.9 | 287.1 | 173,800 | 279,900 |      |       |         |         |      |       |        |         | 115 |
| 120 | 62.8 | 284.5 | 163,800 | 265,500 |      |       |         |         |      |       |        |         | 120 |
| 125 | 60.7 | 281.6 | 154,700 | 252,200 |      |       |         |         |      |       |        |         | 125 |
| 130 | 58.5 | 278.5 | 146,300 | 240,000 |      |       |         |         |      |       |        |         | 130 |
| 135 | 56.2 | 275.1 | 138,500 | 228,800 |      |       |         |         |      |       |        |         | 135 |
| 140 | 53.9 | 271.4 | 131,300 | 218,500 | 59.4 | 275.7 | 117,400 | 207,800 |      |       |        |         | 140 |
| 145 | 51.5 | 267.3 | 124,600 | 208,900 | 57.1 | 272.4 | 111,200 | 198,600 |      |       |        |         | 145 |
| 150 | 49.1 | 262.9 | 118,300 | 200,000 | 54.8 | 268.8 | 105,400 | 190,100 |      |       |        |         | 150 |
| 155 | 46.5 | 258.1 | 112,400 | 191,700 | 52.5 | 264.9 | 100,000 | 182,100 |      |       |        |         | 155 |
| 160 | 43.8 | 252.9 | 106,900 | 183,900 | 50.0 | 260.7 | 94,900  | 174,700 |      |       |        |         | 160 |
| 165 | 40.9 | 247.0 | 101,700 | 176,600 | 47.5 | 256.0 | 90,100  | 167,700 | 53.2 | 261.1 | 78,800 | 159,100 | 165 |
| 170 | 37.9 | 240.6 | 96,700  | 169,700 | 44.9 | 250.9 | 85,600  | 161,100 | 50.8 | 256.9 | 74,700 | 152,800 | 170 |
| 175 | 34.6 | 233.3 | 92,100  | 163,300 | 42.1 | 245.3 | 81,400  | 155,000 | 48.3 | 252.4 | 70,800 | 146,900 | 175 |
| 180 | 31.0 | 225.1 | 87,600  | 157,200 | 39.1 | 239.2 | 77,300  | 149,100 | 45.7 | 247.5 | 67,100 | 141,300 | 180 |
| 185 | 27.0 | 215.4 | 83,400  | 151,400 | 36.0 | 232.2 | 73,400  | 143,600 | 43.0 | 242.1 | 63,600 | 136,100 | 185 |
| 190 | 22.2 | 203.6 | 79,300  | 145,900 | 32.5 | 224.4 | 69,800  | 138,400 | 40.1 | 236.1 | 60,200 | 131,100 | 190 |
| 195 | 16.1 | 187.8 | 75,200  | 140,500 | 28.7 | 215.4 | 66,200  | 133,400 | 37.0 | 229.4 | 57,000 | 126,300 | 195 |
| 200 |      |       |         |         | 24.2 | 204.6 | 62,800  | 128,700 | 33.6 | 221.9 | 53,900 | 121,800 | 200 |
| 205 |      |       |         |         | 18.8 | 190.7 | 59,400  | 124,100 | 29.9 | 213.3 | 51,000 | 117,500 | 205 |
| 210 |      |       |         |         | 10.5 | 169.0 | 55,900  | 119,600 | 25.7 | 203.1 | 48,100 | 113,400 | 210 |
| 215 |      |       |         |         |      |       |         |         | 20.7 | 190.4 | 45,300 | 109,400 | 215 |
| 220 |      |       |         |         |      |       |         |         | 13.7 | 172.5 | 42,400 | 105,600 | 220 |

# MLC650 VPC-MAX S-1

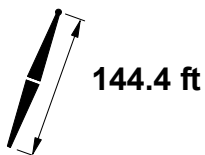
ASME B30.5



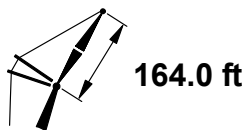
440,900 lb



360°



144.4 ft

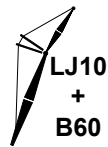


164.0 ft

|     | 85°  |       |         |         | 83°  |       |         |         | 80°  |       |         |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|---------|---------|-----|
|     |      |       |         |         |      |       |         |         |      |       |         |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | ft  |
| 70  | 74.1 | 310.9 | 390,900 | 495,400 |      |       |         |         |      |       |         |         | 70  |
| 75  | 72.3 | 309.2 | 359,100 | 495,400 |      |       |         |         |      |       |         |         | 75  |
| 80  | 70.4 | 307.4 | 331,600 | 478,700 | 72.3 | 308.6 | 320,900 | 470,300 |      |       |         |         | 80  |
| 85  | 68.5 | 305.3 | 307,500 | 444,400 | 70.4 | 306.7 | 297,500 | 436,500 |      |       |         |         | 85  |
| 90  | 66.6 | 303.1 | 286,200 | 414,300 | 68.5 | 304.7 | 276,800 | 407,000 |      |       |         |         | 90  |
| 95  | 64.7 | 300.7 | 267,300 | 387,800 | 66.6 | 302.5 | 258,400 | 380,800 | 69.5 | 304.4 | 245,200 | 370,500 | 95  |
| 100 | 62.7 | 298.0 | 250,300 | 364,200 | 64.7 | 300.1 | 242,000 | 357,600 | 67.6 | 302.3 | 229,500 | 347,900 | 100 |
| 105 | 60.7 | 295.2 | 235,000 | 343,000 | 62.7 | 297.4 | 227,100 | 336,800 | 65.7 | 300.0 | 215,300 | 327,600 | 105 |
| 110 | 58.6 | 292.1 | 221,200 | 323,900 | 60.7 | 294.5 | 213,700 | 318,000 | 63.7 | 297.5 | 202,400 | 309,300 | 110 |
| 115 | 56.5 | 288.7 | 208,600 | 306,700 | 58.6 | 291.4 | 201,400 | 301,100 | 61.7 | 294.7 | 190,700 | 292,700 | 115 |
| 120 | 54.4 | 285.0 | 197,100 | 291,000 | 56.5 | 288.1 | 190,200 | 285,600 | 59.7 | 291.7 | 180,000 | 277,600 | 120 |
| 125 | 52.1 | 281.1 | 186,500 | 276,600 | 54.4 | 284.4 | 179,900 | 271,500 | 57.6 | 288.5 | 170,100 | 263,900 | 125 |
| 130 | 49.8 | 276.8 | 176,700 | 263,400 | 52.2 | 280.5 | 170,500 | 258,500 | 55.5 | 285.0 | 161,100 | 251,200 | 130 |
| 135 | 47.5 | 272.2 | 167,700 | 251,300 | 49.9 | 276.2 | 161,700 | 246,600 | 53.3 | 281.2 | 152,700 | 239,600 | 135 |
| 140 | 45.0 | 267.1 | 159,300 | 240,000 | 47.5 | 271.5 | 153,600 | 235,500 | 51.0 | 277.1 | 144,900 | 228,800 | 140 |
| 145 | 42.4 | 261.6 | 151,500 | 229,600 | 45.0 | 266.5 | 146,000 | 225,300 | 48.7 | 272.6 | 137,700 | 218,800 | 145 |
| 150 | 39.6 | 255.5 | 144,300 | 219,900 | 42.4 | 261.0 | 138,900 | 215,800 | 46.2 | 267.8 | 130,900 | 209,600 | 150 |
| 155 | 36.7 | 248.8 | 137,400 | 210,900 | 39.6 | 254.9 | 132,300 | 206,900 | 43.7 | 262.5 | 124,600 | 200,900 | 155 |
| 160 | 33.5 | 241.2 | 131,000 | 202,400 | 36.7 | 248.2 | 126,100 | 198,600 | 41.0 | 256.7 | 118,700 | 192,800 | 160 |
| 165 | 30.1 | 232.7 | 124,900 | 194,500 | 33.6 | 240.6 | 120,200 | 190,800 | 38.2 | 250.3 | 113,100 | 185,200 | 165 |
| 170 | 26.2 | 222.7 | 119,100 | 187,000 | 30.1 | 232.1 | 114,600 | 183,500 | 35.2 | 243.2 | 107,800 | 178,100 | 170 |
| 175 | 21.6 | 210.5 | 113,600 | 180,000 | 26.2 | 222.1 | 109,300 | 176,500 | 31.9 | 235.2 | 102,700 | 171,400 | 175 |
| 180 | 15.6 | 194.2 | 108,300 | 173,300 | 21.6 | 209.9 | 104,200 | 170,000 | 28.2 | 226.0 | 98,000  | 165,000 | 180 |
| 185 |      |       |         |         | 15.6 | 193.6 | 99,300  | 163,700 | 24.0 | 215.0 | 93,400  | 159,000 | 185 |
| 190 |      |       |         |         |      |       |         |         | 18.8 | 201.2 | 88,900  | 153,200 | 190 |
| 195 |      |       |         |         |      |       |         |         | 11.4 | 180.5 | 84,500  | 147,700 | 195 |
| 200 |      |       |         |         |      |       |         |         |      |       |         |         | 200 |
| 205 |      |       |         |         |      |       |         |         |      |       |         |         | 205 |
| 210 |      |       |         |         |      |       |         |         |      |       |         |         | 210 |
| 215 |      |       |         |         |      |       |         |         |      |       |         |         | 215 |
| 220 |      |       |         |         |      |       |         |         |      |       |         |         | 220 |
| 225 |      |       |         |         |      |       |         |         |      |       |         |         | 225 |
| 230 |      |       |         |         |      |       |         |         |      |       |         |         | 230 |

# MLC650 VPC-MAX S-1

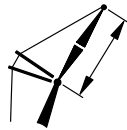
ASME B30.5



440,900 lb



144.4 ft

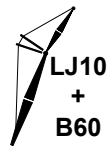


164.0 ft

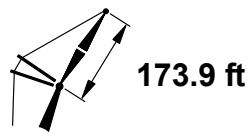
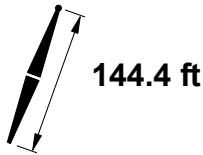
|     | 75°  |       |         |         | 70°  |       |         |         | 65°  |       |        |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|--------|---------|-----|
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb     | lb      | ft  |
| 70  |      |       |         |         |      |       |         |         |      |       |        |         | 70  |
| 75  |      |       |         |         |      |       |         |         |      |       |        |         | 75  |
| 80  |      |       |         |         |      |       |         |         |      |       |        |         | 80  |
| 85  |      |       |         |         |      |       |         |         |      |       |        |         | 85  |
| 90  |      |       |         |         |      |       |         |         |      |       |        |         | 90  |
| 95  |      |       |         |         |      |       |         |         |      |       |        |         | 95  |
| 100 |      |       |         |         |      |       |         |         |      |       |        |         | 100 |
| 105 |      |       |         |         |      |       |         |         |      |       |        |         | 105 |
| 110 |      |       |         |         |      |       |         |         |      |       |        |         | 110 |
| 115 |      |       |         |         |      |       |         |         |      |       |        |         | 115 |
| 120 | 64.6 | 295.6 | 163,000 | 264,500 |      |       |         |         |      |       |        |         | 120 |
| 125 | 62.6 | 293.0 | 153,900 | 251,300 |      |       |         |         |      |       |        |         | 125 |
| 130 | 60.6 | 290.1 | 145,600 | 239,200 |      |       |         |         |      |       |        |         | 130 |
| 135 | 58.5 | 287.0 | 137,800 | 228,100 |      |       |         |         |      |       |        |         | 135 |
| 140 | 56.4 | 283.6 | 130,600 | 217,800 |      |       |         |         |      |       |        |         | 140 |
| 145 | 54.3 | 279.9 | 123,900 | 208,200 | 59.4 | 284.2 | 110,400 | 197,800 |      |       |        |         | 145 |
| 150 | 52.0 | 276.0 | 117,700 | 199,300 | 57.3 | 280.9 | 104,600 | 189,300 |      |       |        |         | 150 |
| 155 | 49.7 | 271.7 | 111,800 | 191,000 | 55.1 | 277.4 | 99,300  | 181,400 |      |       |        |         | 155 |
| 160 | 47.4 | 267.0 | 106,400 | 183,300 | 52.9 | 273.5 | 94,200  | 174,000 |      |       |        |         | 160 |
| 165 | 44.9 | 261.9 | 101,200 | 176,000 | 50.7 | 269.4 | 89,500  | 167,000 |      |       |        |         | 165 |
| 170 | 42.3 | 256.4 | 96,300  | 169,200 | 48.3 | 264.8 | 85,000  | 160,500 | 53.6 | 269.7 | 73,900 | 152,000 | 170 |
| 175 | 39.5 | 250.3 | 91,700  | 162,800 | 45.9 | 259.9 | 80,800  | 154,400 | 51.4 | 265.6 | 70,000 | 146,200 | 175 |
| 180 | 36.6 | 243.5 | 87,300  | 156,700 | 43.3 | 254.6 | 76,800  | 148,600 | 49.1 | 261.2 | 66,400 | 140,600 | 180 |
| 185 | 33.4 | 236.0 | 83,200  | 151,000 | 40.6 | 248.7 | 72,900  | 143,100 | 46.6 | 256.4 | 62,900 | 135,400 | 185 |
| 190 | 29.9 | 227.3 | 79,200  | 145,600 | 37.7 | 242.2 | 69,300  | 137,900 | 44.1 | 251.2 | 59,600 | 130,500 | 190 |
| 195 | 26.0 | 217.3 | 75,400  | 140,400 | 34.7 | 235.0 | 65,900  | 133,000 | 41.5 | 245.5 | 56,400 | 125,800 | 195 |
| 200 | 21.4 | 205.0 | 71,700  | 135,400 | 31.3 | 226.8 | 62,500  | 128,300 | 38.7 | 239.2 | 53,400 | 121,300 | 200 |
| 205 | 15.3 | 188.4 | 68,000  | 130,700 | 27.6 | 217.4 | 59,300  | 123,800 | 35.7 | 232.3 | 50,500 | 117,100 | 205 |
| 210 |      |       |         |         | 23.3 | 206.1 | 56,200  | 119,600 | 32.4 | 224.4 | 47,800 | 113,000 | 210 |
| 215 |      |       |         |         | 17.9 | 191.6 | 53,200  | 115,400 | 28.8 | 215.4 | 45,100 | 109,100 | 215 |
| 220 |      |       |         |         | 9.7  | 168.7 | 49,900  | 111,300 | 24.7 | 204.8 | 42,400 | 105,400 | 220 |
| 225 |      |       |         |         |      |       |         |         | 19.8 | 191.6 | 39,900 | 101,800 | 225 |
| 230 |      |       |         |         |      |       |         |         | 13.0 | 172.7 | 37,200 | 98,200  | 230 |

# MLC650 VPC-MAX S-1

ASME B30.5



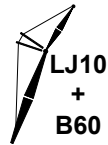
440,900 lb



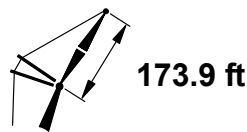
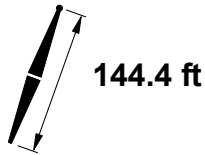
|     | 85°  |       |         |         | 83°  |       |         |         | 80°  |       |         |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|---------|---------|-----|
|     |      |       |         |         |      |       |         |         |      |       |         |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | ft  |
| 75  | 73.3 | 319.6 | 356,800 | 453,300 |      |       |         |         |      |       |         |         | 75  |
| 80  | 71.6 | 317.9 | 329,300 | 453,200 |      |       |         |         |      |       |         |         | 80  |
| 85  | 69.8 | 316.0 | 305,200 | 442,000 | 71.6 | 317.2 | 295,100 | 434,000 |      |       |         |         | 85  |
| 90  | 68.0 | 313.9 | 283,900 | 412,000 | 69.8 | 315.3 | 274,400 | 404,600 |      |       |         |         | 90  |
| 95  | 66.2 | 311.6 | 265,000 | 385,600 | 68.0 | 313.3 | 256,000 | 378,500 |      |       |         |         | 95  |
| 100 | 64.4 | 309.2 | 248,100 | 362,000 | 66.2 | 311.0 | 239,600 | 355,400 | 68.9 | 313.0 | 226,800 | 345,500 | 100 |
| 105 | 62.5 | 306.5 | 232,800 | 340,900 | 64.4 | 308.5 | 224,700 | 334,600 | 67.1 | 310.9 | 212,700 | 325,200 | 105 |
| 110 | 60.6 | 303.6 | 219,000 | 321,900 | 62.5 | 305.9 | 211,300 | 315,900 | 65.3 | 308.5 | 199,800 | 307,000 | 110 |
| 115 | 58.7 | 300.5 | 206,400 | 304,700 | 60.6 | 303.0 | 199,100 | 299,000 | 63.5 | 305.9 | 188,200 | 290,500 | 115 |
| 120 | 56.7 | 297.2 | 194,900 | 289,000 | 58.7 | 299.9 | 187,900 | 283,600 | 61.6 | 303.2 | 177,500 | 275,500 | 120 |
| 125 | 54.7 | 293.6 | 184,400 | 274,700 | 56.7 | 296.6 | 177,700 | 269,500 | 59.7 | 300.2 | 167,700 | 261,700 | 125 |
| 130 | 52.6 | 289.7 | 174,600 | 261,500 | 54.7 | 293.0 | 168,200 | 256,600 | 57.7 | 297.0 | 158,600 | 249,100 | 130 |
| 135 | 50.4 | 285.5 | 165,600 | 249,400 | 52.6 | 289.1 | 159,500 | 244,600 | 55.7 | 293.5 | 150,300 | 237,500 | 135 |
| 140 | 48.2 | 281.0 | 157,300 | 238,200 | 50.4 | 284.9 | 151,400 | 233,600 | 53.6 | 289.8 | 142,600 | 226,800 | 140 |
| 145 | 45.9 | 276.1 | 149,500 | 227,800 | 48.2 | 280.4 | 143,800 | 223,400 | 51.5 | 285.7 | 135,300 | 216,900 | 145 |
| 150 | 43.5 | 270.8 | 142,300 | 218,200 | 45.9 | 275.5 | 136,800 | 213,900 | 49.3 | 281.4 | 128,600 | 207,600 | 150 |
| 155 | 41.0 | 265.0 | 135,500 | 209,200 | 43.5 | 270.2 | 130,200 | 205,100 | 47.1 | 276.7 | 122,300 | 199,000 | 155 |
| 160 | 38.3 | 258.6 | 129,100 | 200,800 | 41.0 | 264.4 | 124,000 | 196,800 | 44.7 | 271.6 | 116,400 | 190,900 | 160 |
| 165 | 35.5 | 251.6 | 123,100 | 192,900 | 38.3 | 258.0 | 118,200 | 189,100 | 42.3 | 266.0 | 110,900 | 183,400 | 165 |
| 170 | 32.4 | 243.8 | 117,400 | 185,500 | 35.5 | 251.0 | 112,700 | 181,800 | 39.7 | 260.0 | 105,600 | 176,300 | 170 |
| 175 | 29.0 | 234.8 | 112,000 | 178,500 | 32.4 | 243.1 | 107,500 | 174,900 | 36.9 | 253.3 | 100,700 | 169,600 | 175 |
| 180 | 25.2 | 224.4 | 106,900 | 171,900 | 29.1 | 234.2 | 102,500 | 168,400 | 34.0 | 245.9 | 96,000  | 163,300 | 180 |
| 185 | 20.7 | 211.8 | 101,900 | 165,600 | 25.3 | 223.8 | 97,800  | 162,300 | 30.8 | 237.5 | 91,500  | 157,300 | 185 |
| 190 | 14.9 | 194.7 | 97,100  | 159,600 | 20.8 | 211.2 | 93,200  | 156,500 | 27.2 | 227.9 | 87,200  | 151,700 | 190 |
| 195 |      |       |         |         | 14.9 | 194.2 | 88,700  | 150,900 | 23.1 | 216.5 | 83,100  | 146,300 | 195 |
| 200 |      |       |         |         |      |       |         |         | 18.1 | 202.1 | 79,100  | 141,100 | 200 |
| 205 |      |       |         |         |      |       |         |         | 10.7 | 180.3 | 75,000  | 136,100 | 205 |
| 210 |      |       |         |         |      |       |         |         |      |       |         |         | 210 |
| 215 |      |       |         |         |      |       |         |         |      |       |         |         | 215 |
| 220 |      |       |         |         |      |       |         |         |      |       |         |         | 220 |
| 225 |      |       |         |         |      |       |         |         |      |       |         |         | 225 |
| 230 |      |       |         |         |      |       |         |         |      |       |         |         | 230 |
| 240 |      |       |         |         |      |       |         |         |      |       |         |         | 240 |

# MLC650 VPC-MAX S-1

ASME B30.5



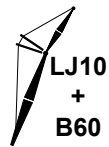
440,900 lb



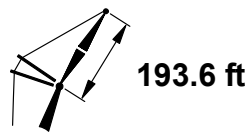
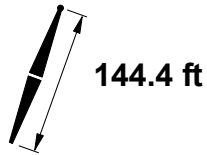
|     | 75°  |       |         |         | 70°  |       |         |         | 65°  |       |        |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|--------|---------|-----|
|     |      |       |         |         |      |       |         |         |      |       |        |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb     | lb      | ft  |
| 75  |      |       |         |         |      |       |         |         |      |       |        |         | 75  |
| 80  |      |       |         |         |      |       |         |         |      |       |        |         | 80  |
| 85  |      |       |         |         |      |       |         |         |      |       |        |         | 85  |
| 90  |      |       |         |         |      |       |         |         |      |       |        |         | 90  |
| 95  |      |       |         |         |      |       |         |         |      |       |        |         | 95  |
| 100 |      |       |         |         |      |       |         |         |      |       |        |         | 100 |
| 105 |      |       |         |         |      |       |         |         |      |       |        |         | 105 |
| 110 |      |       |         |         |      |       |         |         |      |       |        |         | 110 |
| 115 |      |       |         |         |      |       |         |         |      |       |        |         | 115 |
| 120 |      |       |         |         |      |       |         |         |      |       |        |         | 120 |
| 125 | 64.3 | 304.1 | 151,200 | 249,000 |      |       |         |         |      |       |        |         | 125 |
| 130 | 62.4 | 301.5 | 142,800 | 236,900 |      |       |         |         |      |       |        |         | 130 |
| 135 | 60.5 | 298.6 | 135,100 | 225,800 |      |       |         |         |      |       |        |         | 135 |
| 140 | 58.6 | 295.5 | 128,000 | 215,600 |      |       |         |         |      |       |        |         | 140 |
| 145 | 56.6 | 292.1 | 121,300 | 206,000 |      |       |         |         |      |       |        |         | 145 |
| 150 | 54.6 | 288.5 | 115,100 | 197,200 | 59.4 | 292.7 | 101,800 | 187,000 |      |       |        |         | 150 |
| 155 | 52.5 | 284.6 | 109,300 | 188,900 | 57.4 | 289.4 | 96,400  | 179,100 |      |       |        |         | 155 |
| 160 | 50.3 | 280.4 | 103,800 | 181,200 | 55.4 | 285.9 | 91,400  | 171,700 |      |       |        |         | 160 |
| 165 | 48.1 | 275.9 | 98,700  | 174,000 | 53.3 | 282.1 | 86,700  | 164,800 |      |       |        |         | 165 |
| 170 | 45.8 | 270.9 | 93,900  | 167,200 | 51.2 | 278.0 | 82,300  | 158,300 |      |       |        |         | 170 |
| 175 | 43.4 | 265.6 | 89,300  | 160,800 | 49.0 | 273.6 | 78,100  | 152,200 | 54.0 | 278.2 | 67,100 | 143,900 | 175 |
| 180 | 40.9 | 259.8 | 85,000  | 154,800 | 46.7 | 268.9 | 74,100  | 146,500 | 51.9 | 274.2 | 63,500 | 138,400 | 180 |
| 185 | 38.2 | 253.4 | 80,900  | 149,100 | 44.4 | 263.7 | 70,400  | 141,000 | 49.7 | 269.9 | 60,100 | 133,200 | 185 |
| 190 | 35.3 | 246.3 | 77,000  | 143,700 | 41.9 | 258.1 | 66,800  | 135,900 | 47.5 | 265.3 | 56,800 | 128,300 | 190 |
| 195 | 32.3 | 238.4 | 73,200  | 138,600 | 39.3 | 251.9 | 63,400  | 131,000 | 45.1 | 260.3 | 53,700 | 123,600 | 195 |
| 200 | 28.9 | 229.5 | 69,700  | 133,700 | 36.5 | 245.1 | 60,100  | 126,400 | 42.7 | 254.8 | 50,700 | 119,200 | 200 |
| 205 | 25.1 | 219.0 | 66,200  | 129,100 | 33.5 | 237.6 | 57,000  | 122,000 | 40.1 | 248.8 | 47,900 | 115,000 | 205 |
| 210 | 20.5 | 206.2 | 62,800  | 124,600 | 30.3 | 229.1 | 54,000  | 117,700 | 37.4 | 242.3 | 45,200 | 111,000 | 210 |
| 215 | 14.6 | 188.9 | 59,500  | 120,300 | 26.6 | 219.3 | 51,100  | 113,700 | 34.5 | 235.0 | 42,600 | 107,100 | 215 |
| 220 |      |       |         |         | 22.4 | 207.5 | 48,300  | 109,800 | 31.3 | 226.8 | 40,100 | 103,500 | 220 |
| 225 |      |       |         |         | 17.2 | 192.5 | 45,500  | 106,100 | 27.8 | 217.4 | 37,600 | 100,000 | 225 |
| 230 |      |       |         |         | 9.0  | 168.2 | 42,500  | 102,300 | 23.8 | 206.4 | 35,200 | 96,600  | 230 |
| 240 |      |       |         |         |      |       |         |         | 12.3 | 172.8 | 30,400 | 90,000  | 240 |

# MLC650 VPC-MAX S-1

ASME B30.5



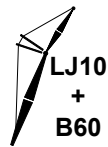
440,900 lb



|     | 85°  |       |         |         | 83°  |       |         |         | 80°  |       |         |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|---------|---------|-----|
|     | ft   | °     | ft      | lb      | lb   | ft    | lb      | lb      | ft   | lb    | lb      | ft      |     |
| 80  | 73.5 | 338.7 | 326,400 | 379,200 |      |       |         |         |      |       |         |         | 80  |
| 85  | 72.0 | 337.0 | 302,300 | 379,100 |      |       |         |         |      |       |         |         | 85  |
| 90  | 70.4 | 335.1 | 281,000 | 378,300 | 72.0 | 336.3 | 271,200 | 374,200 |      |       |         |         | 90  |
| 95  | 68.8 | 333.1 | 262,200 | 377,500 | 70.4 | 334.5 | 252,900 | 374,200 |      |       |         |         | 95  |
| 100 | 67.2 | 331.0 | 245,200 | 358,900 | 68.8 | 332.5 | 236,500 | 352,100 |      |       |         |         | 100 |
| 105 | 65.5 | 328.7 | 230,000 | 337,900 | 67.2 | 330.4 | 221,700 | 331,500 | 69.6 | 332.2 | 209,300 | 321,900 | 105 |
| 110 | 63.9 | 326.2 | 216,200 | 319,000 | 65.6 | 328.0 | 208,300 | 312,900 | 68.0 | 330.2 | 196,500 | 303,700 | 110 |
| 115 | 62.2 | 323.5 | 203,600 | 301,900 | 63.9 | 325.5 | 196,100 | 296,000 | 66.4 | 327.9 | 184,900 | 287,300 | 115 |
| 120 | 60.5 | 320.6 | 192,200 | 286,300 | 62.2 | 322.8 | 185,000 | 280,700 | 64.7 | 325.5 | 174,200 | 272,400 | 120 |
| 125 | 58.8 | 317.5 | 181,600 | 272,000 | 60.5 | 320.0 | 174,800 | 266,700 | 63.1 | 322.9 | 164,500 | 258,800 | 125 |
| 130 | 57.0 | 314.2 | 171,900 | 258,900 | 58.8 | 316.9 | 165,300 | 253,800 | 61.4 | 320.1 | 155,500 | 246,200 | 130 |
| 135 | 55.2 | 310.7 | 163,000 | 246,900 | 57.0 | 313.6 | 156,600 | 242,000 | 59.6 | 317.1 | 147,200 | 234,700 | 135 |
| 140 | 53.3 | 306.9 | 154,700 | 235,700 | 55.2 | 310.0 | 148,600 | 231,000 | 57.9 | 314.0 | 139,500 | 224,000 | 140 |
| 145 | 51.4 | 302.9 | 146,900 | 225,400 | 53.3 | 306.3 | 141,100 | 220,900 | 56.1 | 310.5 | 132,300 | 214,100 | 145 |
| 150 | 49.5 | 298.5 | 139,700 | 215,800 | 51.4 | 302.2 | 134,100 | 211,500 | 54.3 | 306.9 | 125,600 | 204,900 | 150 |
| 155 | 47.4 | 293.9 | 133,000 | 206,900 | 49.5 | 297.9 | 127,500 | 202,700 | 52.4 | 303.0 | 119,400 | 196,400 | 155 |
| 160 | 45.4 | 288.9 | 126,700 | 198,500 | 47.5 | 293.3 | 121,400 | 194,400 | 50.5 | 298.8 | 113,500 | 188,400 | 160 |
| 165 | 43.2 | 283.5 | 120,700 | 190,700 | 45.4 | 288.3 | 115,600 | 186,700 | 48.5 | 294.3 | 108,000 | 180,900 | 165 |
| 170 | 40.9 | 277.7 | 115,100 | 183,300 | 43.2 | 282.9 | 110,200 | 179,500 | 46.4 | 289.5 | 102,800 | 173,800 | 170 |
| 175 | 38.5 | 271.4 | 109,800 | 176,400 | 40.9 | 277.1 | 105,100 | 172,700 | 44.3 | 284.3 | 98,000  | 167,200 | 175 |
| 180 | 36.0 | 264.5 | 104,800 | 169,900 | 38.5 | 270.8 | 100,200 | 166,300 | 42.1 | 278.8 | 93,300  | 161,000 | 180 |
| 185 | 33.3 | 256.9 | 100,100 | 163,700 | 36.0 | 263.9 | 95,600  | 160,200 | 39.7 | 272.7 | 88,900  | 155,100 | 185 |
| 190 | 30.4 | 248.5 | 95,500  | 157,800 | 33.3 | 256.3 | 91,200  | 154,500 | 37.3 | 266.1 | 84,800  | 149,500 | 190 |
| 195 | 27.2 | 238.9 | 91,200  | 152,300 | 30.4 | 247.9 | 87,100  | 149,000 | 34.7 | 258.9 | 80,800  | 144,200 | 195 |
| 200 | 23.6 | 227.7 | 87,000  | 147,000 | 27.2 | 238.3 | 83,100  | 143,900 | 31.9 | 250.9 | 77,000  | 139,100 | 200 |
| 205 | 19.3 | 214.0 | 83,000  | 141,900 | 23.6 | 227.1 | 79,200  | 138,900 | 28.9 | 241.9 | 73,400  | 134,400 | 205 |
| 210 | 13.6 | 195.5 | 79,000  | 135,600 | 19.3 | 213.4 | 75,500  | 134,200 | 25.5 | 231.6 | 69,900  | 129,800 | 210 |
| 215 |      |       |         |         | 13.6 | 195.0 | 71,700  | 129,600 | 21.5 | 219.3 | 66,500  | 125,400 | 215 |
| 220 |      |       |         |         |      |       |         |         | 16.7 | 203.7 | 63,100  | 121,200 | 220 |
| 225 |      |       |         |         |      |       |         |         | 9.4  | 179.7 | 59,700  | 117,000 | 225 |
| 230 |      |       |         |         |      |       |         |         |      |       |         |         | 230 |
| 240 |      |       |         |         |      |       |         |         |      |       |         |         | 240 |
| 250 |      |       |         |         |      |       |         |         |      |       |         |         | 250 |
| 260 |      |       |         |         |      |       |         |         |      |       |         |         | 260 |

# MLC650 VPC-MAX S-1

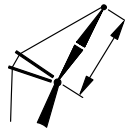
ASME B30.5



440,900 lb



144.4 ft

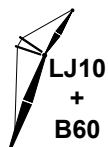


193.6 ft

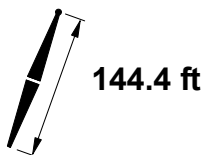
|     | 75°  |       |         |         | 70°  |       |        |         | 65°  |       |        |         |     |
|-----|------|-------|---------|---------|------|-------|--------|---------|------|-------|--------|---------|-----|
|     |      |       |         |         |      |       |        |         |      |       |        |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb     | lb      | °    | ft    | lb     | lb      | ft  |
| 80  |      |       |         |         |      |       |        |         |      |       |        |         | 80  |
| 85  |      |       |         |         |      |       |        |         |      |       |        |         | 85  |
| 90  |      |       |         |         |      |       |        |         |      |       |        |         | 90  |
| 95  |      |       |         |         |      |       |        |         |      |       |        |         | 95  |
| 100 |      |       |         |         |      |       |        |         |      |       |        |         | 100 |
| 105 |      |       |         |         |      |       |        |         |      |       |        |         | 105 |
| 110 |      |       |         |         |      |       |        |         |      |       |        |         | 110 |
| 115 |      |       |         |         |      |       |        |         |      |       |        |         | 115 |
| 120 |      |       |         |         |      |       |        |         |      |       |        |         | 120 |
| 125 |      |       |         |         |      |       |        |         |      |       |        |         | 125 |
| 130 |      |       |         |         |      |       |        |         |      |       |        |         | 130 |
| 135 | 63.8 | 321.1 | 131,500 | 222,700 |      |       |        |         |      |       |        |         | 135 |
| 140 | 62.1 | 318.4 | 124,400 | 212,500 |      |       |        |         |      |       |        |         | 140 |
| 145 | 60.4 | 315.5 | 117,800 | 203,000 |      |       |        |         |      |       |        |         | 145 |
| 150 | 58.7 | 312.4 | 111,700 | 194,200 |      |       |        |         |      |       |        |         | 150 |
| 155 | 56.9 | 309.1 | 105,900 | 186,100 |      |       |        |         |      |       |        |         | 155 |
| 160 | 55.1 | 305.6 | 100,500 | 178,400 | 59.4 | 309.6 | 87,700 | 168,700 |      |       |        |         | 160 |
| 165 | 53.2 | 301.8 | 95,400  | 171,200 | 57.6 | 306.4 | 83,100 | 161,800 |      |       |        |         | 165 |
| 170 | 51.3 | 297.7 | 90,700  | 164,500 | 55.8 | 302.9 | 78,700 | 155,400 |      |       |        |         | 170 |
| 175 | 49.4 | 293.4 | 86,200  | 158,200 | 54.0 | 299.2 | 74,600 | 149,300 |      |       |        |         | 175 |
| 180 | 47.4 | 288.7 | 81,900  | 152,200 | 52.1 | 295.3 | 70,700 | 143,600 |      |       |        |         | 180 |
| 185 | 45.3 | 283.7 | 77,900  | 146,600 | 50.2 | 291.1 | 67,000 | 138,200 | 54.6 | 295.3 | 56,300 | 130,200 | 185 |
| 190 | 43.1 | 278.4 | 74,000  | 141,200 | 48.2 | 286.6 | 63,400 | 133,100 | 52.7 | 291.5 | 53,100 | 125,300 | 190 |
| 195 | 40.8 | 272.5 | 70,400  | 136,200 | 46.1 | 281.7 | 60,100 | 128,300 | 50.8 | 287.3 | 50,100 | 120,700 | 195 |
| 200 | 38.4 | 266.2 | 66,900  | 131,400 | 44.0 | 276.5 | 56,900 | 123,700 | 48.8 | 282.9 | 47,200 | 116,300 | 200 |
| 205 | 35.9 | 259.3 | 63,600  | 126,800 | 41.7 | 270.8 | 53,900 | 119,400 | 46.8 | 278.2 | 44,400 | 112,200 | 205 |
| 210 | 33.2 | 251.6 | 60,400  | 122,400 | 39.4 | 264.7 | 51,000 | 115,200 | 44.6 | 273.1 | 41,800 | 108,200 | 210 |
| 215 | 30.3 | 243.1 | 57,400  | 118,300 | 36.9 | 258.0 | 48,200 | 111,300 | 42.4 | 267.5 | 39,200 | 104,400 | 215 |
| 220 | 27.1 | 233.5 | 54,400  | 114,300 | 34.3 | 250.7 | 45,500 | 107,500 | 40.1 | 261.6 | 36,800 | 100,800 | 220 |
| 225 | 23.4 | 222.2 | 51,500  | 110,500 | 31.5 | 242.5 | 43,000 | 103,900 | 37.7 | 255.1 | 34,500 | 97,400  | 225 |
| 230 | 19.1 | 208.4 | 48,700  | 106,800 | 28.4 | 233.4 | 40,500 | 100,400 | 35.1 | 248.0 | 32,200 | 94,100  | 230 |
| 240 |      |       |         |         | 20.9 | 210.2 | 35,700 | 93,800  | 29.4 | 231.3 | 28,000 | 87,900  | 240 |
| 250 |      |       |         |         | 7.7  | 166.8 | 30,700 | 87,500  | 22.2 | 209.3 | 23,900 | 82,100  | 250 |
| 260 |      |       |         |         |      |       |        |         | 11.0 | 172.8 |        | 76,500  | 260 |

# MLC650 VPC-MAX S-1

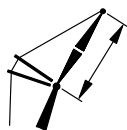
ASME B30.5



440,900 lb



144.4 ft

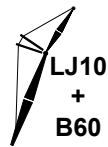


213.3 ft

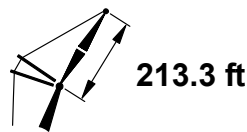
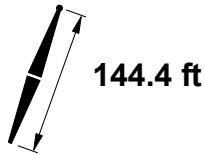
|     | 85°  |       |         |         | 83°  |       |         |         | 80°  |       |         |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|---------|---------|-----|
|     |      |       |         |         |      |       |         |         |      |       |         |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | ft  |
| 85  | 73.7 | 357.7 | 299,400 | 320,400 |      |       |         |         |      |       |         |         | 85  |
| 90  | 72.3 | 356.1 | 278,100 | 320,000 |      |       |         |         |      |       |         |         | 90  |
| 95  | 70.8 | 354.3 | 259,300 | 319,400 | 72.3 | 355.4 | 249,800 | 315,800 |      |       |         |         | 95  |
| 100 | 69.4 | 352.4 | 242,400 | 318,600 | 70.8 | 353.7 | 233,400 | 315,800 |      |       |         |         | 100 |
| 105 | 68.0 | 350.3 | 227,100 | 317,600 | 69.4 | 351.7 | 218,600 | 315,800 |      |       |         |         | 105 |
| 110 | 66.5 | 348.1 | 213,300 | 316,100 | 68.0 | 349.7 | 205,200 | 309,800 |      |       |         |         | 110 |
| 115 | 65.0 | 345.7 | 200,800 | 299,000 | 66.5 | 347.4 | 193,100 | 293,100 | 68.7 | 349.4 | 181,500 | 284,200 | 115 |
| 120 | 63.5 | 343.1 | 189,400 | 283,500 | 65.0 | 345.1 | 182,000 | 277,800 | 67.2 | 347.3 | 170,900 | 269,300 | 120 |
| 125 | 62.0 | 340.4 | 178,800 | 269,300 | 63.5 | 342.5 | 171,800 | 263,900 | 65.7 | 345.0 | 161,200 | 255,800 | 125 |
| 130 | 60.4 | 337.5 | 169,200 | 256,300 | 62.0 | 339.8 | 162,400 | 251,100 | 64.2 | 342.5 | 152,200 | 243,300 | 130 |
| 135 | 58.8 | 334.5 | 160,200 | 244,300 | 60.4 | 336.9 | 153,700 | 239,300 | 62.7 | 339.9 | 144,000 | 231,800 | 135 |
| 140 | 57.2 | 331.2 | 151,900 | 233,200 | 58.8 | 333.8 | 145,700 | 228,400 | 61.2 | 337.1 | 136,300 | 221,200 | 140 |
| 145 | 55.6 | 327.7 | 144,200 | 222,900 | 57.2 | 330.6 | 138,200 | 218,300 | 59.6 | 334.1 | 129,200 | 211,400 | 145 |
| 150 | 53.9 | 324.0 | 137,000 | 213,400 | 55.6 | 327.1 | 131,200 | 208,900 | 58.0 | 330.9 | 122,500 | 202,200 | 150 |
| 155 | 52.2 | 320.1 | 130,300 | 204,400 | 53.9 | 323.4 | 124,700 | 200,100 | 56.4 | 327.6 | 116,300 | 193,700 | 155 |
| 160 | 50.5 | 315.9 | 124,000 | 196,100 | 52.2 | 319.5 | 118,600 | 192,000 | 54.8 | 324.0 | 110,500 | 185,700 | 160 |
| 165 | 48.7 | 311.5 | 118,100 | 188,300 | 50.5 | 315.3 | 112,900 | 184,300 | 53.1 | 320.2 | 105,000 | 178,300 | 165 |
| 170 | 46.8 | 306.8 | 112,600 | 181,000 | 48.7 | 310.9 | 107,500 | 177,100 | 51.3 | 316.1 | 99,900  | 171,300 | 170 |
| 175 | 44.9 | 301.7 | 107,300 | 174,100 | 46.8 | 306.1 | 102,400 | 170,300 | 49.6 | 311.8 | 95,000  | 164,700 | 175 |
| 180 | 42.9 | 296.3 | 102,300 | 167,600 | 44.9 | 301.1 | 97,600  | 164,000 | 47.7 | 307.2 | 90,400  | 158,500 | 180 |
| 185 | 40.9 | 290.5 | 97,700  | 161,500 | 42.9 | 295.7 | 93,000  | 157,900 | 45.9 | 302.3 | 86,100  | 152,600 | 185 |
| 190 | 38.7 | 284.2 | 93,200  | 155,700 | 40.9 | 289.9 | 88,700  | 152,200 | 43.9 | 297.1 | 82,000  | 147,100 | 190 |
| 195 | 36.4 | 277.4 | 88,900  | 150,200 | 38.7 | 283.6 | 84,600  | 146,800 | 41.9 | 291.5 | 78,100  | 141,800 | 195 |
| 200 | 34.1 | 270.0 | 84,900  | 145,000 | 36.5 | 276.8 | 80,700  | 141,700 | 39.8 | 285.5 | 74,300  | 136,900 | 200 |
| 205 | 31.5 | 261.9 | 81,000  | 140,000 | 34.1 | 269.4 | 76,900  | 136,800 | 37.6 | 279.0 | 70,800  | 132,100 | 205 |
| 210 | 28.7 | 252.8 | 77,300  | 135,300 | 31.5 | 261.3 | 73,400  | 132,200 | 35.3 | 271.9 | 67,400  | 127,600 | 210 |
| 215 | 25.6 | 242.6 | 73,800  | 130,800 | 28.7 | 252.2 | 69,900  | 127,800 | 32.8 | 264.1 | 64,100  | 123,300 | 215 |
| 220 | 22.2 | 230.6 | 70,300  | 126,400 | 25.7 | 242.0 | 66,600  | 123,500 | 30.1 | 255.6 | 61,000  | 119,200 | 220 |
| 225 | 18.0 | 216.0 | 67,000  | 122,300 | 22.2 | 230.0 | 63,400  | 119,500 | 27.2 | 245.9 | 58,000  | 115,200 | 225 |
| 230 | 12.5 | 196.0 | 63,600  | 112,800 | 18.0 | 215.4 | 60,300  | 115,500 | 24.0 | 234.9 | 55,100  | 111,400 | 230 |
| 240 |      |       |         |         |      |       |         |         | 15.5 | 205.1 | 49,400  | 104,300 | 240 |
| 250 |      |       |         |         |      |       |         |         |      |       |         |         | 250 |
| 260 |      |       |         |         |      |       |         |         |      |       |         |         | 260 |
| 270 |      |       |         |         |      |       |         |         |      |       |         |         | 270 |
| 280 |      |       |         |         |      |       |         |         |      |       |         |         | 280 |

# MLC650 VPC-MAX S-1

ASME B30.5



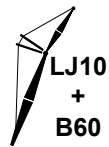
440,900 lb



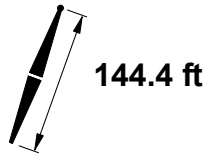
|     | 75°  |       |         |         | 70°  |       |        |         | 65°  |       |        |         |     |
|-----|------|-------|---------|---------|------|-------|--------|---------|------|-------|--------|---------|-----|
|     | ft   | °     | ft      | lb      | lb   | ft    | lb     | lb      | ft   | lb    | lb     | ft      |     |
| 85  |      |       |         |         |      |       |        |         |      |       |        |         | 85  |
| 90  |      |       |         |         |      |       |        |         |      |       |        |         | 90  |
| 95  |      |       |         |         |      |       |        |         |      |       |        |         | 95  |
| 100 |      |       |         |         |      |       |        |         |      |       |        |         | 100 |
| 105 |      |       |         |         |      |       |        |         |      |       |        |         | 105 |
| 110 |      |       |         |         |      |       |        |         |      |       |        |         | 110 |
| 115 |      |       |         |         |      |       |        |         |      |       |        |         | 115 |
| 120 |      |       |         |         |      |       |        |         |      |       |        |         | 120 |
| 125 |      |       |         |         |      |       |        |         |      |       |        |         | 125 |
| 130 |      |       |         |         |      |       |        |         |      |       |        |         | 130 |
| 135 |      |       |         |         |      |       |        |         |      |       |        |         | 135 |
| 140 | 64.9 | 340.6 | 120,900 | 209,400 |      |       |        |         |      |       |        |         | 140 |
| 145 | 63.4 | 338.1 | 114,300 | 200,000 |      |       |        |         |      |       |        |         | 145 |
| 150 | 61.9 | 335.4 | 108,200 | 191,300 |      |       |        |         |      |       |        |         | 150 |
| 155 | 60.3 | 332.5 | 102,500 | 183,100 |      |       |        |         |      |       |        |         | 155 |
| 160 | 58.8 | 329.4 | 97,100  | 175,500 |      |       |        |         |      |       |        |         | 160 |
| 165 | 57.2 | 326.1 | 92,100  | 168,400 |      |       |        |         |      |       |        |         | 165 |
| 170 | 55.5 | 322.6 | 87,300  | 161,700 | 59.4 | 326.6 | 75,000 | 152,400 |      |       |        |         | 170 |
| 175 | 53.8 | 318.9 | 82,900  | 155,400 | 57.8 | 323.4 | 70,900 | 146,400 |      |       |        |         | 175 |
| 180 | 52.1 | 315.0 | 78,700  | 149,500 | 56.2 | 320.0 | 67,100 | 140,700 |      |       |        |         | 180 |
| 185 | 50.4 | 310.8 | 74,700  | 143,900 | 54.5 | 316.4 | 63,400 | 135,400 |      |       |        |         | 185 |
| 190 | 48.6 | 306.4 | 70,900  | 138,600 | 52.8 | 312.5 | 60,000 | 130,300 |      |       |        |         | 190 |
| 195 | 46.7 | 301.6 | 67,300  | 133,600 | 51.1 | 308.4 | 56,700 | 125,500 |      |       |        |         | 195 |
| 200 | 44.8 | 296.5 | 63,900  | 128,800 | 49.3 | 304.1 | 53,500 | 121,000 | 53.4 | 308.7 | 43,500 | 113,400 | 200 |
| 205 | 42.8 | 291.1 | 60,600  | 124,300 | 47.5 | 299.5 | 50,600 | 116,700 | 51.6 | 304.6 | 40,800 | 109,300 | 205 |
| 210 | 40.8 | 285.3 | 57,500  | 120,000 | 45.6 | 294.5 | 47,700 | 112,600 | 49.9 | 300.4 | 38,200 | 105,300 | 210 |
| 215 | 38.6 | 279.0 | 54,500  | 115,900 | 43.6 | 289.2 | 45,000 | 108,700 | 48.1 | 295.8 | 35,700 | 101,600 | 215 |
| 220 | 36.3 | 272.2 | 51,600  | 112,000 | 41.6 | 283.6 | 42,400 | 104,900 | 46.2 | 291.0 | 33,300 | 98,100  | 220 |
| 225 | 33.9 | 264.7 | 48,900  | 108,200 | 39.5 | 277.5 | 39,900 | 101,300 | 44.3 | 285.8 | 31,100 | 94,700  | 225 |
| 230 | 31.4 | 256.6 | 46,300  | 104,600 | 37.3 | 270.9 | 37,500 | 97,900  | 42.2 | 280.3 | 28,900 | 91,400  | 230 |
| 240 | 25.5 | 237.1 | 41,200  | 97,900  | 32.4 | 255.8 | 32,900 | 91,500  | 38.0 | 267.9 | 24,800 | 85,300  | 240 |
| 250 | 17.8 | 210.3 | 36,400  | 91,600  | 26.8 | 237.3 | 28,700 | 85,600  | 33.2 | 253.3 | 20,900 | 79,700  | 250 |
| 260 |      |       |         |         | 19.6 | 212.5 | 24,600 | 80,000  | 27.7 | 235.5 |        | 74,400  | 260 |
| 270 |      |       |         |         | 6.4  | 164.6 | 20,200 | 74,600  | 20.9 | 212.0 |        | 69,500  | 270 |
| 280 |      |       |         |         |      |       |        |         | 9.9  | 172.4 |        | 64,700  | 280 |

# MLC650 VPC-MAX S-1

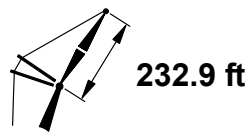
ASME B30.5



440,900 lb



144.4 ft

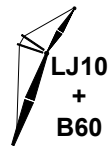


232.9 ft

|     | 85°  |       |         |         | 83°  |       |         |         | 80°  |       |         |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|---------|---------|-----|
|     |      |       |         |         |      |       |         |         |      |       |         |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | ft  |
| 90  | 73.8 | 376.8 | 269,000 | 269,000 |      |       |         |         |      |       |         |         | 90  |
| 95  | 72.5 | 375.2 | 257,300 | 268,400 |      |       |         |         |      |       |         |         | 95  |
| 100 | 71.2 | 373.4 | 240,400 | 267,600 | 72.5 | 374.5 | 231,200 | 264,300 |      |       |         |         | 100 |
| 105 | 69.9 | 371.5 | 225,200 | 266,800 | 71.2 | 372.8 | 216,500 | 264,200 |      |       |         |         | 105 |
| 110 | 68.6 | 369.5 | 211,400 | 265,800 | 69.9 | 370.9 | 203,100 | 264,000 |      |       |         |         | 110 |
| 115 | 67.3 | 367.4 | 198,900 | 264,800 | 68.6 | 368.9 | 191,000 | 263,700 |      |       |         |         | 115 |
| 120 | 65.9 | 365.1 | 187,500 | 263,600 | 67.3 | 366.8 | 179,900 | 263,200 | 69.3 | 368.6 | 168,600 | 254,700 | 120 |
| 125 | 64.5 | 362.7 | 177,000 | 262,400 | 65.9 | 364.5 | 169,700 | 261,800 | 67.9 | 366.6 | 158,900 | 253,500 | 125 |
| 130 | 63.1 | 360.1 | 167,300 | 254,300 | 64.5 | 362.1 | 160,400 | 249,000 | 66.6 | 364.4 | 150,000 | 241,100 | 130 |
| 135 | 61.7 | 357.4 | 158,400 | 242,400 | 63.2 | 359.5 | 151,700 | 237,300 | 65.2 | 362.0 | 141,800 | 229,700 | 135 |
| 140 | 60.3 | 354.5 | 150,100 | 231,300 | 61.8 | 356.8 | 143,700 | 226,400 | 63.8 | 359.5 | 134,100 | 219,100 | 140 |
| 145 | 58.9 | 351.4 | 142,400 | 221,100 | 60.3 | 353.9 | 136,200 | 216,400 | 62.5 | 356.8 | 127,000 | 209,300 | 145 |
| 150 | 57.4 | 348.2 | 135,200 | 211,600 | 58.9 | 350.8 | 129,300 | 207,000 | 61.0 | 354.0 | 120,400 | 200,200 | 150 |
| 155 | 55.9 | 344.8 | 128,500 | 202,700 | 57.4 | 347.6 | 122,800 | 198,300 | 59.6 | 351.1 | 114,200 | 191,800 | 155 |
| 160 | 54.4 | 341.1 | 122,300 | 194,400 | 55.9 | 344.1 | 116,700 | 190,200 | 58.2 | 347.9 | 108,400 | 183,800 | 160 |
| 165 | 52.9 | 337.3 | 116,400 | 186,700 | 54.4 | 340.5 | 111,000 | 182,500 | 56.7 | 344.6 | 103,000 | 176,400 | 165 |
| 170 | 51.3 | 333.3 | 110,800 | 179,400 | 52.9 | 336.7 | 105,600 | 175,400 | 55.2 | 341.1 | 97,800  | 169,500 | 170 |
| 175 | 49.7 | 329.0 | 105,600 | 172,500 | 51.3 | 332.6 | 100,600 | 168,700 | 53.6 | 337.3 | 93,000  | 162,900 | 175 |
| 180 | 48.0 | 324.4 | 100,700 | 166,000 | 49.7 | 328.3 | 95,800  | 162,300 | 52.1 | 333.4 | 88,500  | 156,700 | 180 |
| 185 | 46.3 | 319.6 | 96,000  | 159,900 | 48.0 | 323.8 | 91,300  | 156,300 | 50.5 | 329.2 | 84,200  | 150,900 | 185 |
| 190 | 44.5 | 314.5 | 91,600  | 154,200 | 46.3 | 319.0 | 87,000  | 150,700 | 48.8 | 324.8 | 80,100  | 145,400 | 190 |
| 195 | 42.7 | 309.0 | 87,400  | 148,700 | 44.5 | 313.9 | 82,900  | 145,300 | 47.1 | 320.1 | 76,200  | 140,200 | 195 |
| 200 | 40.8 | 303.2 | 83,400  | 143,500 | 42.7 | 308.4 | 79,000  | 140,200 | 45.4 | 315.2 | 72,500  | 135,200 | 200 |
| 205 | 38.9 | 297.0 | 79,600  | 138,600 | 40.8 | 302.6 | 75,300  | 135,400 | 43.6 | 309.9 | 69,000  | 130,500 | 205 |
| 210 | 36.8 | 290.3 | 75,900  | 133,900 | 38.9 | 296.4 | 71,800  | 130,700 | 41.8 | 304.2 | 65,600  | 126,000 | 210 |
| 215 | 34.6 | 283.0 | 72,500  | 129,400 | 36.8 | 289.7 | 68,500  | 126,400 | 39.9 | 298.2 | 62,400  | 121,800 | 215 |
| 220 | 32.3 | 275.2 | 69,100  | 125,200 | 34.6 | 282.4 | 65,200  | 122,200 | 37.8 | 291.8 | 59,400  | 117,700 | 220 |
| 225 | 29.9 | 266.5 | 65,900  | 121,100 | 32.4 | 274.6 | 62,100  | 118,200 | 35.7 | 284.8 | 56,400  | 113,800 | 225 |
| 230 | 27.2 | 256.9 | 62,800  | 117,200 | 29.9 | 265.9 | 59,200  | 114,300 | 33.5 | 277.3 | 53,600  | 110,100 | 230 |
| 240 | 20.9 | 233.3 | 56,900  | 109,800 | 24.3 | 245.4 | 53,500  | 107,100 | 28.6 | 259.9 | 48,300  | 103,100 | 240 |
| 250 | 11.5 | 196.2 | 51,200  | 94,800  | 16.9 | 217.2 | 48,100  | 100,400 | 22.7 | 238.0 | 43,200  | 96,600  | 250 |
| 260 |      |       |         |         |      |       |         |         | 14.4 | 206.2 | 38,400  | 90,500  | 260 |
| 270 |      |       |         |         |      |       |         |         |      |       |         |         | 270 |
| 280 |      |       |         |         |      |       |         |         |      |       |         |         | 280 |
| 290 |      |       |         |         |      |       |         |         |      |       |         |         | 290 |
| 300 |      |       |         |         |      |       |         |         |      |       |         |         | 300 |

# MLC650 VPC-MAX S-1

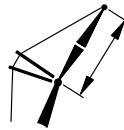
ASME B30.5



440,900 lb



144.4 ft

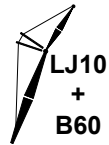


232.9 ft

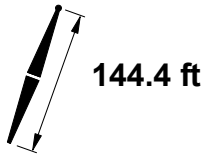
|     | 75°  |       |         |         | 70°  |       |        |         | 65°  |       |         |     |
|-----|------|-------|---------|---------|------|-------|--------|---------|------|-------|---------|-----|
|     | ft   | °     | ft      | lb      | lb   | °     | ft     | lb      | lb   | °     | ft      | lb  |
| 90  |      |       |         |         |      |       |        |         |      |       |         | 90  |
| 95  |      |       |         |         |      |       |        |         |      |       |         | 95  |
| 100 |      |       |         |         |      |       |        |         |      |       |         | 100 |
| 105 |      |       |         |         |      |       |        |         |      |       |         | 105 |
| 110 |      |       |         |         |      |       |        |         |      |       |         | 110 |
| 115 |      |       |         |         |      |       |        |         |      |       |         | 115 |
| 120 |      |       |         |         |      |       |        |         |      |       |         | 120 |
| 125 |      |       |         |         |      |       |        |         |      |       |         | 125 |
| 130 |      |       |         |         |      |       |        |         |      |       |         | 130 |
| 135 |      |       |         |         |      |       |        |         |      |       |         | 135 |
| 140 |      |       |         |         |      |       |        |         |      |       |         | 140 |
| 145 |      |       |         |         |      |       |        |         |      |       |         | 145 |
| 150 | 64.5 | 357.6 | 105,700 | 189,100 |      |       |        |         |      |       |         | 150 |
| 155 | 63.1 | 355.1 | 100,000 | 181,000 |      |       |        |         |      |       |         | 155 |
| 160 | 61.7 | 352.3 | 94,700  | 173,400 |      |       |        |         |      |       |         | 160 |
| 165 | 60.3 | 349.4 | 89,700  | 166,300 |      |       |        |         |      |       |         | 165 |
| 170 | 58.8 | 346.4 | 85,000  | 159,700 |      |       |        |         |      |       |         | 170 |
| 175 | 57.4 | 343.1 | 80,600  | 153,400 |      |       |        |         |      |       |         | 175 |
| 180 | 55.9 | 339.7 | 76,400  | 147,500 | 59.4 | 343.5 | 64,500 | 138,600 |      |       |         | 180 |
| 185 | 54.3 | 336.0 | 72,400  | 142,000 | 57.9 | 340.3 | 60,900 | 133,300 |      |       |         | 185 |
| 190 | 52.8 | 332.2 | 68,700  | 136,700 | 56.5 | 337.0 | 57,500 | 128,300 |      |       |         | 190 |
| 195 | 51.2 | 328.1 | 65,100  | 131,700 | 54.9 | 333.4 | 54,200 | 123,500 |      |       |         | 195 |
| 200 | 49.6 | 323.8 | 61,700  | 127,000 | 53.4 | 329.7 | 51,100 | 119,000 |      |       |         | 200 |
| 205 | 47.9 | 319.3 | 58,500  | 122,500 | 51.8 | 325.7 | 48,200 | 114,700 |      |       |         | 205 |
| 210 | 46.2 | 314.5 | 55,400  | 118,200 | 50.2 | 321.5 | 45,400 | 110,600 | 53.9 | 325.8 | 103,300 | 210 |
| 215 | 44.5 | 309.3 | 52,500  | 114,200 | 48.6 | 317.0 | 42,700 | 106,800 | 52.3 | 321.9 | 99,600  | 215 |
| 220 | 42.6 | 303.9 | 49,700  | 110,300 | 46.9 | 312.3 | 40,100 | 103,100 | 50.7 | 317.8 | 96,000  | 220 |
| 225 | 40.7 | 298.0 | 47,000  | 106,600 | 45.2 | 307.3 | 37,700 | 99,500  | 49.1 | 313.4 | 92,700  | 225 |
| 230 | 38.8 | 291.8 | 44,400  | 103,000 | 43.4 | 302.0 | 35,300 | 96,100  | 47.4 | 308.7 | 89,500  | 230 |
| 240 | 34.5 | 277.8 | 39,500  | 96,400  | 39.6 | 290.2 | 30,900 | 89,800  | 43.9 | 298.6 | 83,400  | 240 |
| 250 | 29.8 | 261.2 | 35,000  | 90,200  | 35.4 | 276.6 | 26,800 | 84,000  | 40.2 | 287.1 | 77,900  | 250 |
| 260 | 24.1 | 240.5 | 30,700  | 84,500  | 30.8 | 260.6 | 22,900 | 78,500  | 36.1 | 273.8 | 72,700  | 260 |
| 270 | 16.7 | 212.0 | 26,600  | 79,100  | 25.3 | 241.0 |        | 73,500  | 31.5 | 258.3 | 67,900  | 270 |
| 280 |      |       |         |         | 18.4 | 214.6 |        | 68,700  | 26.3 | 239.3 | 63,500  | 280 |
| 290 |      |       |         |         | 5.0  | 161.4 |        | 64,000  | 19.7 | 214.4 | 59,200  | 290 |
| 300 |      |       |         |         |      |       |        |         | 8.8  | 171.6 | 55,100  | 300 |

# MLC650 VPC-MAX S-1

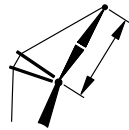
ASME B30.5



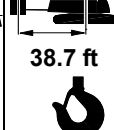
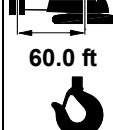
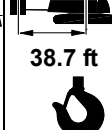
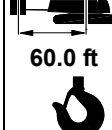
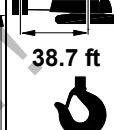
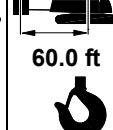
440,900 lb



144.4 ft



252.6 ft

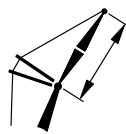
| <br>85° |                                                                                        |                                                                                         |                                                                                         |                                                                                         | <br>83° |                                                                                         |                                                                                         |                                                                                         | <br>80° |                                                                                           |                                                                                           |                                                                                           |                                                                                           |
|------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| <br>ft   | <br>° | <br>ft | <br>lb | <br>lb | <br>°   | <br>ft | <br>lb | <br>lb | <br>°    | <br>ft | <br>lb | <br>lb | <br>ft |
| 95                                                                                       | 73.9                                                                                   | 395.8                                                                                   | 228,400                                                                                 | 228,400                                                                                 |                                                                                          |                                                                                         |                                                                                         |                                                                                         |                                                                                            |                                                                                           |                                                                                           |                                                                                           | 95                                                                                        |
| 100                                                                                      | 72.7                                                                                   | 394.2                                                                                   | 227,700                                                                                 | 227,700                                                                                 |                                                                                          |                                                                                         |                                                                                         |                                                                                         |                                                                                            |                                                                                           |                                                                                           |                                                                                           | 100                                                                                       |
| 105                                                                                      | 71.5                                                                                   | 392.5                                                                                   | 221,900                                                                                 | 226,900                                                                                 | 72.8                                                                                     | 393.6                                                                                   | 213,000                                                                                 | 224,200                                                                                 |                                                                                            |                                                                                           |                                                                                           |                                                                                           | 105                                                                                       |
| 110                                                                                      | 70.3                                                                                   | 390.7                                                                                   | 208,100                                                                                 | 226,000                                                                                 | 71.6                                                                                     | 391.9                                                                                   | 199,700                                                                                 | 223,900                                                                                 |                                                                                            |                                                                                           |                                                                                           |                                                                                           | 110                                                                                       |
| 115                                                                                      | 69.1                                                                                   | 388.8                                                                                   | 195,600                                                                                 | 225,000                                                                                 | 70.3                                                                                     | 390.1                                                                                   | 187,500                                                                                 | 223,500                                                                                 |                                                                                            |                                                                                           |                                                                                           |                                                                                           | 115                                                                                       |
| 120                                                                                      | 67.9                                                                                   | 386.7                                                                                   | 184,200                                                                                 | 224,000                                                                                 | 69.1                                                                                     | 388.1                                                                                   | 176,500                                                                                 | 223,000                                                                                 |                                                                                            |                                                                                           |                                                                                           |                                                                                           | 120                                                                                       |
| 125                                                                                      | 66.7                                                                                   | 384.5                                                                                   | 173,700                                                                                 | 222,900                                                                                 | 67.9                                                                                     | 386.1                                                                                   | 166,300                                                                                 | 222,400                                                                                 | 69.7                                                                                       | 387.8                                                                                     | 155,300                                                                                   | 215,500                                                                                   | 125                                                                                       |
| 130                                                                                      | 65.4                                                                                   | 382.2                                                                                   | 164,000                                                                                 | 221,800                                                                                 | 66.7                                                                                     | 383.9                                                                                   | 157,000                                                                                 | 221,700                                                                                 | 68.5                                                                                       | 385.8                                                                                     | 146,400                                                                                   | 215,500                                                                                   | 130                                                                                       |
| 135                                                                                      | 64.1                                                                                   | 379.7                                                                                   | 155,100                                                                                 | 220,600                                                                                 | 65.4                                                                                     | 381.5                                                                                   | 148,300                                                                                 | 221,000                                                                                 | 67.3                                                                                       | 383.7                                                                                     | 138,100                                                                                   | 215,500                                                                                   | 135                                                                                       |
| 140                                                                                      | 62.9                                                                                   | 377.1                                                                                   | 146,900                                                                                 | 219,400                                                                                 | 64.1                                                                                     | 379.1                                                                                   | 140,300                                                                                 | 220,300                                                                                 | 66.0                                                                                       | 381.4                                                                                     | 130,500                                                                                   | 215,500                                                                                   | 140                                                                                       |
| 145                                                                                      | 61.6                                                                                   | 374.3                                                                                   | 139,200                                                                                 | 218,200                                                                                 | 62.9                                                                                     | 376.5                                                                                   | 132,900                                                                                 | 213,500                                                                                 | 64.8                                                                                       | 379.0                                                                                     | 123,400                                                                                   | 206,300                                                                                   | 145                                                                                       |
| 150                                                                                      | 60.3                                                                                   | 371.4                                                                                   | 132,000                                                                                 | 208,800                                                                                 | 61.6                                                                                     | 373.7                                                                                   | 126,000                                                                                 | 204,100                                                                                 | 63.5                                                                                       | 376.5                                                                                     | 116,800                                                                                   | 197,200                                                                                   | 150                                                                                       |
| 155                                                                                      | 58.9                                                                                   | 368.4                                                                                   | 125,400                                                                                 | 200,000                                                                                 | 60.3                                                                                     | 370.8                                                                                   | 119,500                                                                                 | 195,500                                                                                 | 62.2                                                                                       | 373.8                                                                                     | 110,700                                                                                   | 188,800                                                                                   | 155                                                                                       |
| 160                                                                                      | 57.6                                                                                   | 365.2                                                                                   | 119,100                                                                                 | 191,700                                                                                 | 58.9                                                                                     | 367.8                                                                                   | 113,400                                                                                 | 187,400                                                                                 | 60.9                                                                                       | 371.0                                                                                     | 104,900                                                                                   | 180,900                                                                                   | 160                                                                                       |
| 165                                                                                      | 56.2                                                                                   | 361.8                                                                                   | 113,200                                                                                 | 184,000                                                                                 | 57.6                                                                                     | 364.5                                                                                   | 107,700                                                                                 | 179,800                                                                                 | 59.6                                                                                       | 368.0                                                                                     | 99,500                                                                                    | 173,500                                                                                   | 165                                                                                       |
| 170                                                                                      | 54.8                                                                                   | 358.2                                                                                   | 107,700                                                                                 | 176,700                                                                                 | 56.2                                                                                     | 361.2                                                                                   | 102,400                                                                                 | 172,600                                                                                 | 58.3                                                                                       | 364.9                                                                                     | 94,400                                                                                    | 166,600                                                                                   | 170                                                                                       |
| 175                                                                                      | 53.4                                                                                   | 354.5                                                                                   | 102,500                                                                                 | 169,900                                                                                 | 54.8                                                                                     | 357.6                                                                                   | 97,300                                                                                  | 165,900                                                                                 | 56.9                                                                                       | 361.6                                                                                     | 89,600                                                                                    | 160,100                                                                                   | 175                                                                                       |
| 180                                                                                      | 52.0                                                                                   | 350.5                                                                                   | 97,600                                                                                  | 163,400                                                                                 | 53.4                                                                                     | 353.8                                                                                   | 92,600                                                                                  | 159,600                                                                                 | 55.5                                                                                       | 358.1                                                                                     | 85,100                                                                                    | 153,900                                                                                   | 180                                                                                       |
| 185                                                                                      | 50.5                                                                                   | 346.4                                                                                   | 93,000                                                                                  | 157,400                                                                                 | 52.0                                                                                     | 349.9                                                                                   | 88,100                                                                                  | 153,700                                                                                 | 54.1                                                                                       | 354.4                                                                                     | 80,800                                                                                    | 148,100                                                                                   | 185                                                                                       |
| 190                                                                                      | 49.0                                                                                   | 342.0                                                                                   | 88,600                                                                                  | 151,600                                                                                 | 50.5                                                                                     | 345.7                                                                                   | 83,800                                                                                  | 148,000                                                                                 | 52.7                                                                                       | 350.6                                                                                     | 76,700                                                                                    | 142,600                                                                                   | 190                                                                                       |
| 195                                                                                      | 47.4                                                                                   | 337.3                                                                                   | 84,400                                                                                  | 146,200                                                                                 | 49.0                                                                                     | 341.3                                                                                   | 79,800                                                                                  | 142,700                                                                                 | 51.2                                                                                       | 346.5                                                                                     | 72,900                                                                                    | 137,400                                                                                   | 195                                                                                       |
| 200                                                                                      | 45.8                                                                                   | 332.4                                                                                   | 80,400                                                                                  | 141,000                                                                                 | 47.4                                                                                     | 336.7                                                                                   | 75,900                                                                                  | 137,600                                                                                 | 49.7                                                                                       | 342.3                                                                                     | 69,200                                                                                    | 132,500                                                                                   | 200                                                                                       |
| 205                                                                                      | 44.2                                                                                   | 327.3                                                                                   | 76,600                                                                                  | 136,100                                                                                 | 45.8                                                                                     | 331.8                                                                                   | 72,300                                                                                  | 132,800                                                                                 | 48.2                                                                                       | 337.8                                                                                     | 65,700                                                                                    | 127,800                                                                                   | 205                                                                                       |
| 210                                                                                      | 42.5                                                                                   | 321.8                                                                                   | 73,000                                                                                  | 131,500                                                                                 | 44.2                                                                                     | 326.6                                                                                   | 68,800                                                                                  | 128,200                                                                                 | 46.6                                                                                       | 333.0                                                                                     | 62,400                                                                                    | 123,400                                                                                   | 210                                                                                       |
| 215                                                                                      | 40.8                                                                                   | 316.0                                                                                   | 69,600                                                                                  | 127,000                                                                                 | 42.5                                                                                     | 321.2                                                                                   | 65,400                                                                                  | 123,900                                                                                 | 45.0                                                                                       | 328.0                                                                                     | 59,200                                                                                    | 119,200                                                                                   | 215                                                                                       |
| 220                                                                                      | 39.0                                                                                   | 309.8                                                                                   | 66,300                                                                                  | 122,800                                                                                 | 40.8                                                                                     | 315.3                                                                                   | 62,300                                                                                  | 119,700                                                                                 | 43.4                                                                                       | 322.6                                                                                     | 56,200                                                                                    | 115,100                                                                                   | 220                                                                                       |
| 225                                                                                      | 37.1                                                                                   | 303.1                                                                                   | 63,100                                                                                  | 118,700                                                                                 | 39.0                                                                                     | 309.1                                                                                   | 59,200                                                                                  | 115,700                                                                                 | 41.7                                                                                       | 317.0                                                                                     | 53,300                                                                                    | 111,200                                                                                   | 225                                                                                       |
| 230                                                                                      | 35.1                                                                                   | 296.0                                                                                   | 60,100                                                                                  | 114,900                                                                                 | 37.1                                                                                     | 302.5                                                                                   | 56,300                                                                                  | 111,900                                                                                 | 39.9                                                                                       | 311.0                                                                                     | 50,500                                                                                    | 107,600                                                                                   | 230                                                                                       |
| 240                                                                                      | 30.8                                                                                   | 280.0                                                                                   | 54,400                                                                                  | 107,600                                                                                 | 33.1                                                                                     | 287.7                                                                                   | 50,800                                                                                  | 104,800                                                                                 | 36.1                                                                                       | 297.7                                                                                     | 45,300                                                                                    | 100,600                                                                                   | 240                                                                                       |
| 250                                                                                      | 25.9                                                                                   | 260.7                                                                                   | 49,100                                                                                  | 100,900                                                                                 | 28.5                                                                                     | 270.2                                                                                   | 45,600                                                                                  | 98,200                                                                                  | 32.0                                                                                       | 282.3                                                                                     | 40,400                                                                                    | 94,200                                                                                    | 250                                                                                       |
| 260                                                                                      | 19.8                                                                                   | 235.7                                                                                   | 44,100                                                                                  | 94,700                                                                                  | 23.1                                                                                     | 248.6                                                                                   | 40,800                                                                                  | 92,100                                                                                  | 27.2                                                                                       | 264.0                                                                                     | 35,900                                                                                    | 88,300                                                                                    | 260                                                                                       |
| 270                                                                                      | 10.5                                                                                   | 196.1                                                                                   | 39,100                                                                                  | 77,900                                                                                  | 15.9                                                                                     | 218.7                                                                                   | 36,200                                                                                  | 86,400                                                                                  | 21.5                                                                                       | 240.8                                                                                     | 31,600                                                                                    | 82,800                                                                                    | 270                                                                                       |
| 280                                                                                      |                                                                                        |                                                                                         |                                                                                         |                                                                                         |                                                                                          |                                                                                         |                                                                                         |                                                                                         | 13.5                                                                                       | 207.0                                                                                     | 27,400                                                                                    | 77,600                                                                                    | 280                                                                                       |
| 290                                                                                      |                                                                                        |                                                                                         |                                                                                         |                                                                                         |                                                                                          |                                                                                         |                                                                                         |                                                                                         |                                                                                            |                                                                                           |                                                                                           |                                                                                           | 290                                                                                       |
| 300                                                                                      |                                                                                        |                                                                                         |                                                                                         |                                                                                         |                                                                                          |                                                                                         |                                                                                         |                                                                                         |                                                                                            |                                                                                           |                                                                                           |                                                                                           | 300                                                                                       |
| 310                                                                                      |                                                                                        |                                                                                         |                                                                                         |                                                                                         |                                                                                          |                                                                                         |                                                                                         |                                                                                         |                                                                                            |                                                                                           |                                                                                           |                                                                                           | 310                                                                                       |
| 320                                                                                      |                                                                                        |                                                                                         |                                                                                         |                                                                                         |                                                                                          |                                                                                         |                                                                                         |                                                                                         |                                                                                            |                                                                                           |                                                                                           |                                                                                           | 320                                                                                       |

# MLC650 VPC-MAX S-1

ASME B30.5



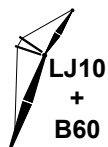
440,900 lb



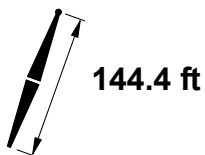
|     | 75°  |       |        |         | 70°  |       |        |         | 65°  |       |        |     |
|-----|------|-------|--------|---------|------|-------|--------|---------|------|-------|--------|-----|
|     |      |       |        |         |      |       |        |         |      |       |        |     |
|     | ft   | °     | ft     | lb      | lb   | °     | ft     | lb      | lb   | °     | ft     | lb  |
| 95  |      |       |        |         |      |       |        |         |      |       |        | 95  |
| 100 |      |       |        |         |      |       |        |         |      |       |        | 100 |
| 105 |      |       |        |         |      |       |        |         |      |       |        | 105 |
| 110 |      |       |        |         |      |       |        |         |      |       |        | 110 |
| 115 |      |       |        |         |      |       |        |         |      |       |        | 115 |
| 120 |      |       |        |         |      |       |        |         |      |       |        | 120 |
| 125 |      |       |        |         |      |       |        |         |      |       |        | 125 |
| 130 |      |       |        |         |      |       |        |         |      |       |        | 130 |
| 135 |      |       |        |         |      |       |        |         |      |       |        | 135 |
| 140 |      |       |        |         |      |       |        |         |      |       |        | 140 |
| 145 |      |       |        |         |      |       |        |         |      |       |        | 145 |
| 150 |      |       |        |         |      |       |        |         |      |       |        | 150 |
| 155 |      |       |        |         |      |       |        |         |      |       |        | 155 |
| 160 | 64.1 | 374.6 | 90,900 | 170,300 |      |       |        |         |      |       |        | 160 |
| 165 | 62.8 | 372.0 | 85,900 | 163,200 |      |       |        |         |      |       |        | 165 |
| 170 | 61.5 | 369.3 | 81,300 | 156,600 |      |       |        |         |      |       |        | 170 |
| 175 | 60.2 | 366.4 | 76,900 | 150,400 |      |       |        |         |      |       |        | 175 |
| 180 | 58.9 | 363.3 | 72,700 | 144,500 |      |       |        |         |      |       |        | 180 |
| 185 | 57.5 | 360.1 | 68,800 | 139,000 |      |       |        |         |      |       |        | 185 |
| 190 | 56.2 | 356.7 | 65,100 | 133,800 | 59.4 | 360.5 | 53,600 | 125,100 |      |       |        | 190 |
| 195 | 54.8 | 353.1 | 61,500 | 128,800 | 58.1 | 357.3 | 50,400 | 120,400 |      |       |        | 195 |
| 200 | 53.3 | 349.4 | 58,200 | 124,100 | 56.7 | 354.0 | 47,300 | 115,900 |      |       |        | 200 |
| 205 | 51.9 | 345.4 | 55,000 | 119,700 | 55.3 | 350.5 | 44,400 | 111,700 |      |       |        | 205 |
| 210 | 50.4 | 341.2 | 51,900 | 115,400 | 53.9 | 346.8 | 41,600 | 107,700 |      |       |        | 210 |
| 215 | 48.9 | 336.8 | 49,000 | 111,400 | 52.5 | 342.9 | 39,000 | 103,800 |      |       |        | 215 |
| 220 | 47.4 | 332.2 | 46,200 | 107,500 | 51.0 | 338.8 | 36,400 | 100,100 | 54.4 | 342.9 | 93,000 | 220 |
| 225 | 45.8 | 327.3 | 43,600 | 103,900 | 49.5 | 334.5 | 34,000 | 96,600  | 52.9 | 339.1 | 89,600 | 225 |
| 230 | 44.1 | 322.1 | 41,000 | 100,300 | 48.0 | 330.0 | 31,700 | 93,300  | 51.5 | 335.0 | 86,400 | 230 |
| 240 | 40.7 | 310.8 | 36,200 | 93,700  | 44.8 | 320.1 | 27,300 | 87,000  | 48.5 | 326.3 | 80,500 | 240 |
| 250 | 37.0 | 297.9 | 31,800 | 87,700  | 41.4 | 309.0 | 23,300 | 81,200  | 45.3 | 316.6 | 75,000 | 250 |
| 260 | 33.0 | 283.1 | 27,700 | 82,000  | 37.8 | 296.5 |        | 75,900  | 42.0 | 305.8 | 69,900 | 260 |
| 270 | 28.4 | 265.5 | 23,800 | 76,800  | 33.8 | 282.1 |        | 70,900  | 38.4 | 293.5 | 65,200 | 270 |
| 280 | 22.9 | 243.7 | 20,100 | 71,900  | 29.3 | 265.2 |        | 66,300  | 34.4 | 279.4 | 60,800 | 280 |
| 290 | 15.7 | 213.5 |        | 67,300  | 24.1 | 244.4 |        | 62,000  | 30.1 | 262.9 | 56,700 | 290 |
| 300 |      |       |        |         | 17.4 | 216.5 |        | 57,800  | 25.0 | 242.9 | 52,800 | 300 |
| 310 |      |       |        |         | 3.5  | 156.2 |        | 53,600  | 18.6 | 216.5 | 49,100 | 310 |
| 320 |      |       |        |         |      |       |        |         | 7.9  | 170.4 | 45,500 | 320 |

# MLC650 VPC-MAX S-1

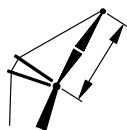
ASME B30.5



440,900 lb



144.4 ft

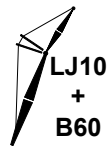


272.3 ft

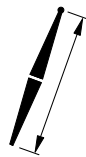
|     | 85°  |       |         |         | 83°  |       |         |         | 80°  |       |         |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|---------|---------|-----|
|     |      |       |         |         |      |       |         |         |      |       |         |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | ft  |
| 100 | 74.0 | 414.9 | 195,600 | 195,600 |      |       |         |         |      |       |         |         | 100 |
| 105 | 72.9 | 413.3 | 194,900 | 194,900 |      |       |         |         |      |       |         |         | 105 |
| 110 | 71.8 | 411.6 | 194,100 | 194,100 | 72.9 | 412.7 | 192,300 | 192,300 |      |       |         |         | 110 |
| 115 | 70.7 | 409.8 | 193,300 | 193,300 | 71.8 | 411.0 | 185,200 | 191,900 |      |       |         |         | 115 |
| 120 | 69.6 | 407.9 | 182,100 | 192,300 | 70.7 | 409.2 | 174,200 | 191,400 |      |       |         |         | 120 |
| 125 | 68.4 | 405.9 | 171,600 | 191,400 | 69.6 | 407.3 | 164,100 | 190,800 |      |       |         |         | 125 |
| 130 | 67.3 | 403.8 | 162,000 | 190,300 | 68.5 | 405.3 | 154,700 | 190,200 |      |       |         |         | 130 |
| 135 | 66.1 | 401.6 | 153,100 | 189,300 | 67.3 | 403.2 | 146,100 | 189,500 | 69.0 | 405.0 | 135,700 | 184,800 | 135 |
| 140 | 65.0 | 399.2 | 144,800 | 188,200 | 66.2 | 400.9 | 138,100 | 188,700 | 67.9 | 403.0 | 128,100 | 184,700 | 140 |
| 145 | 63.8 | 396.7 | 137,200 | 187,100 | 65.0 | 398.6 | 130,700 | 187,900 | 66.7 | 400.8 | 121,100 | 184,500 | 145 |
| 150 | 62.6 | 394.1 | 130,100 | 186,000 | 63.8 | 396.1 | 123,800 | 187,100 | 65.6 | 398.5 | 114,500 | 184,300 | 150 |
| 155 | 61.4 | 391.3 | 123,400 | 184,800 | 62.6 | 393.4 | 117,400 | 186,300 | 64.4 | 396.0 | 108,400 | 184,000 | 155 |
| 160 | 60.2 | 388.4 | 117,200 | 183,700 | 61.4 | 390.7 | 111,300 | 185,400 | 63.2 | 393.5 | 102,700 | 178,900 | 160 |
| 165 | 59.0 | 385.4 | 111,300 | 182,200 | 60.2 | 387.8 | 105,700 | 177,900 | 62.0 | 390.8 | 97,300  | 171,500 | 165 |
| 170 | 57.7 | 382.2 | 105,800 | 175,000 | 59.0 | 384.7 | 100,400 | 170,800 | 60.8 | 387.9 | 92,200  | 164,600 | 170 |
| 175 | 56.5 | 378.8 | 100,600 | 168,200 | 57.7 | 381.5 | 95,300  | 164,200 | 59.6 | 385.0 | 87,400  | 158,200 | 175 |
| 180 | 55.2 | 375.3 | 95,700  | 161,800 | 56.5 | 378.2 | 90,600  | 157,900 | 58.3 | 381.8 | 82,900  | 152,100 | 180 |
| 185 | 53.9 | 371.6 | 91,100  | 155,700 | 55.2 | 374.7 | 86,100  | 151,900 | 57.1 | 378.6 | 78,700  | 146,300 | 185 |
| 190 | 52.5 | 367.7 | 86,700  | 150,000 | 53.9 | 371.0 | 81,900  | 146,300 | 55.8 | 375.1 | 74,600  | 140,800 | 190 |
| 195 | 51.2 | 363.7 | 82,600  | 144,600 | 52.5 | 367.1 | 77,900  | 141,000 | 54.5 | 371.5 | 70,800  | 135,700 | 195 |
| 200 | 49.8 | 359.4 | 78,600  | 139,500 | 51.2 | 363.0 | 74,000  | 136,000 | 53.2 | 367.8 | 67,200  | 130,800 | 200 |
| 205 | 48.4 | 354.9 | 74,900  | 134,600 | 49.8 | 358.8 | 70,400  | 131,200 | 51.9 | 363.8 | 63,700  | 126,100 | 205 |
| 210 | 46.9 | 350.2 | 71,300  | 129,900 | 48.4 | 354.3 | 66,900  | 126,600 | 50.5 | 359.6 | 60,400  | 121,700 | 210 |
| 215 | 45.5 | 345.3 | 67,900  | 125,500 | 46.9 | 349.6 | 63,600  | 122,300 | 49.1 | 355.3 | 57,300  | 117,500 | 215 |
| 220 | 43.9 | 340.0 | 64,600  | 121,300 | 45.5 | 344.6 | 60,500  | 118,200 | 47.7 | 350.7 | 54,300  | 113,500 | 220 |
| 225 | 42.4 | 334.5 | 61,500  | 117,300 | 43.9 | 339.4 | 57,500  | 114,200 | 46.2 | 345.8 | 51,400  | 109,600 | 225 |
| 230 | 40.8 | 328.7 | 58,500  | 113,400 | 42.4 | 333.9 | 54,600  | 110,400 | 44.7 | 340.8 | 48,700  | 106,000 | 230 |
| 240 | 37.3 | 316.0 | 52,900  | 106,200 | 39.1 | 321.9 | 49,100  | 103,400 | 41.6 | 329.7 | 43,500  | 99,100  | 240 |
| 250 | 33.6 | 301.4 | 47,700  | 99,600  | 35.5 | 308.3 | 44,100  | 96,900  | 38.2 | 317.4 | 38,700  | 92,800  | 250 |
| 260 | 29.5 | 284.6 | 42,900  | 93,500  | 31.6 | 292.7 | 39,400  | 90,800  | 34.6 | 303.3 | 34,300  | 86,900  | 260 |
| 270 | 24.7 | 264.2 | 38,300  | 87,800  | 27.2 | 274.3 | 35,000  | 85,300  | 30.6 | 287.1 | 30,100  | 81,500  | 270 |
| 280 | 18.8 | 238.0 | 34,000  | 82,400  | 22.0 | 251.5 | 30,900  | 80,000  | 26.0 | 267.8 | 26,200  | 76,500  | 280 |
| 290 | 9.7  | 195.7 | 29,700  | 64,100  | 15.0 | 219.9 | 26,900  | 75,100  | 20.5 | 243.4 | 22,500  | 71,700  | 290 |
| 300 |      |       |         |         |      |       |         |         | 12.6 | 207.6 |         | 67,200  | 300 |
| 310 |      |       |         |         |      |       |         |         |      |       |         |         | 310 |
| 320 |      |       |         |         |      |       |         |         |      |       |         |         | 320 |
| 330 |      |       |         |         |      |       |         |         |      |       |         |         | 330 |
| 340 |      |       |         |         |      |       |         |         |      |       |         |         | 340 |

# MLC650 VPC-MAX S-1

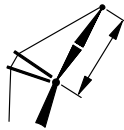
ASME B30.5



440,900 lb



144.4 ft



272.3 ft

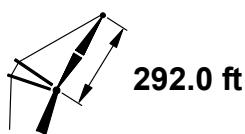
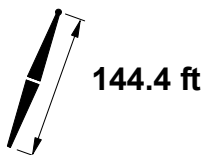
|     | 75°  |       |        |         | 70°  |       |        |         | 65°  |       |        |    |
|-----|------|-------|--------|---------|------|-------|--------|---------|------|-------|--------|----|
|     | ft   | °     | ft     | lb      | lb   | °     | ft     | lb      | lb   | °     | ft     | lb |
| 100 |      |       |        |         |      |       |        |         |      |       |        |    |
| 105 |      |       |        |         |      |       |        |         |      |       |        |    |
| 110 |      |       |        |         |      |       |        |         |      |       |        |    |
| 115 |      |       |        |         |      |       |        |         |      |       |        |    |
| 120 |      |       |        |         |      |       |        |         |      |       |        |    |
| 125 |      |       |        |         |      |       |        |         |      |       |        |    |
| 130 |      |       |        |         |      |       |        |         |      |       |        |    |
| 135 |      |       |        |         |      |       |        |         |      |       |        |    |
| 140 |      |       |        |         |      |       |        |         |      |       |        |    |
| 145 |      |       |        |         |      |       |        |         |      |       |        |    |
| 150 |      |       |        |         |      |       |        |         |      |       |        |    |
| 155 |      |       |        |         |      |       |        |         |      |       |        |    |
| 160 |      |       |        |         |      |       |        |         |      |       |        |    |
| 165 | 64.9 | 394.1 | 83,400 | 161,100 |      |       |        |         |      |       |        |    |
| 170 | 63.8 | 391.6 | 78,800 | 154,500 |      |       |        |         |      |       |        |    |
| 175 | 62.6 | 389.0 | 74,400 | 148,300 |      |       |        |         |      |       |        |    |
| 180 | 61.4 | 386.2 | 70,300 | 142,500 |      |       |        |         |      |       |        |    |
| 185 | 60.1 | 383.3 | 66,400 | 137,000 |      |       |        |         |      |       |        |    |
| 190 | 58.9 | 380.3 | 62,700 | 131,800 |      |       |        |         |      |       |        |    |
| 195 | 57.7 | 377.1 | 59,200 | 126,900 |      |       |        |         |      |       |        |    |
| 200 | 56.4 | 373.7 | 55,800 | 122,200 | 59.4 | 377.4 | 44,800 | 113,900 |      |       |        |    |
| 205 | 55.1 | 370.2 | 52,700 | 117,800 | 58.2 | 374.3 | 41,900 | 109,600 |      |       |        |    |
| 210 | 53.8 | 366.5 | 49,700 | 113,600 | 56.9 | 371.0 | 39,100 | 105,600 |      |       |        |    |
| 215 | 52.5 | 362.6 | 46,800 | 109,600 | 55.6 | 367.5 | 36,500 | 101,800 |      |       |        |    |
| 220 | 51.1 | 358.5 | 44,000 | 105,700 | 54.3 | 363.9 | 34,000 | 98,200  |      |       |        |    |
| 225 | 49.7 | 354.3 | 41,400 | 102,100 | 53.0 | 360.1 | 31,600 | 94,700  |      |       |        |    |
| 230 | 48.3 | 349.8 | 38,900 | 98,600  | 51.7 | 356.1 | 29,300 | 91,400  | 54.7 | 360.0 | 84,400 |    |
| 240 | 45.4 | 340.1 | 34,200 | 92,000  | 48.9 | 347.5 | 25,000 | 85,100  | 52.1 | 352.3 | 78,500 |    |
| 250 | 42.3 | 329.3 | 29,800 | 86,000  | 46.0 | 338.0 | 21,100 | 79,400  | 49.3 | 343.8 | 73,000 |    |
| 260 | 39.0 | 317.3 | 25,800 | 80,500  | 42.9 | 327.5 |        | 74,100  | 46.4 | 334.5 | 68,000 |    |
| 270 | 35.5 | 303.7 | 22,000 | 75,300  | 39.7 | 315.7 |        | 69,200  | 43.4 | 324.1 | 63,300 |    |
| 280 | 31.5 | 288.0 |        | 70,500  | 36.2 | 302.5 |        | 64,700  | 40.2 | 312.6 | 59,000 |    |
| 290 | 27.1 | 269.5 |        | 66,000  | 32.4 | 287.3 |        | 60,400  | 36.7 | 299.6 | 55,000 |    |
| 300 | 21.9 | 246.6 |        | 61,800  | 28.0 | 269.4 |        | 56,400  | 33.0 | 284.7 | 51,200 |    |
| 310 | 14.8 | 214.7 |        | 57,800  | 23.0 | 247.5 |        | 52,700  | 28.8 | 267.3 | 47,700 |    |
| 320 |      |       |        |         | 16.4 | 218.1 |        | 49,100  | 23.9 | 246.2 | 44,300 |    |
| 330 |      |       |        |         |      |       |        |         | 17.6 | 218.5 | 41,100 |    |
| 340 |      |       |        |         |      |       |        |         | 6.9  | 168.7 | 37,800 |    |

# MLC650 VPC-MAX S-1

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440,900 lb



|     | 85°  |       |         |         | 83°  |       |         |         | 80°  |       |         |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|---------|---------|-----|
|     |      |       |         |         |      |       |         |         |      |       |         |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | ft  |
| 105 | 74.1 | 433.9 | 163,900 | 163,900 |      |       |         |         |      |       |         |         | 105 |
| 110 | 73.1 | 432.4 | 163,100 | 163,100 |      |       |         |         |      |       |         |         | 110 |
| 115 | 72.1 | 430.7 | 162,300 | 162,300 |      |       |         |         |      |       |         |         | 115 |
| 120 | 71.0 | 429.0 | 161,400 | 161,400 | 72.1 | 430.1 | 160,300 | 160,300 |      |       |         |         | 120 |
| 125 | 70.0 | 427.1 | 160,500 | 160,500 | 71.0 | 428.3 | 159,700 | 159,700 |      |       |         |         | 125 |
| 130 | 68.9 | 425.2 | 158,400 | 159,500 | 70.0 | 426.5 | 151,000 | 159,000 |      |       |         |         | 130 |
| 135 | 67.9 | 423.1 | 149,500 | 158,500 | 68.9 | 424.5 | 142,400 | 158,300 |      |       |         |         | 135 |
| 140 | 66.8 | 420.9 | 141,200 | 157,500 | 67.9 | 422.5 | 134,400 | 157,500 | 69.4 | 424.2 | 124,200 | 153,900 | 140 |
| 145 | 65.7 | 418.6 | 133,600 | 156,500 | 66.8 | 420.3 | 127,000 | 156,700 | 68.4 | 422.2 | 117,200 | 153,600 | 145 |
| 150 | 64.6 | 416.2 | 126,500 | 155,500 | 65.7 | 418.0 | 120,100 | 155,900 | 67.3 | 420.1 | 110,600 | 153,200 | 150 |
| 155 | 63.5 | 413.7 | 119,800 | 154,400 | 64.6 | 415.6 | 113,700 | 155,100 | 66.2 | 417.8 | 104,500 | 152,800 | 155 |
| 160 | 62.4 | 411.0 | 113,600 | 153,400 | 63.5 | 413.0 | 107,700 | 154,200 | 65.2 | 415.5 | 98,800  | 152,300 | 160 |
| 165 | 61.3 | 408.3 | 107,800 | 152,300 | 62.4 | 410.4 | 102,000 | 153,400 | 64.1 | 413.0 | 93,400  | 151,800 | 165 |
| 170 | 60.2 | 405.4 | 102,300 | 151,300 | 61.3 | 407.6 | 96,700  | 152,500 | 63.0 | 410.4 | 88,400  | 151,300 | 170 |
| 175 | 59.0 | 402.3 | 97,100  | 150,200 | 60.2 | 404.7 | 91,700  | 151,600 | 61.9 | 407.7 | 83,600  | 150,700 | 175 |
| 180 | 57.8 | 399.1 | 92,200  | 149,200 | 59.0 | 401.7 | 87,000  | 150,700 | 60.7 | 404.9 | 79,100  | 149,000 | 180 |
| 185 | 56.7 | 395.8 | 87,600  | 148,100 | 57.8 | 398.5 | 82,500  | 149,000 | 59.6 | 401.9 | 74,900  | 143,200 | 185 |
| 190 | 55.5 | 392.3 | 83,200  | 147,100 | 56.7 | 395.2 | 78,300  | 143,400 | 58.4 | 398.8 | 70,900  | 137,800 | 190 |
| 195 | 54.3 | 388.7 | 79,100  | 141,700 | 55.5 | 391.7 | 74,300  | 138,100 | 57.3 | 395.6 | 67,100  | 132,600 | 195 |
| 200 | 53.0 | 384.9 | 75,100  | 136,600 | 54.3 | 388.1 | 70,500  | 133,100 | 56.1 | 392.2 | 63,400  | 127,800 | 200 |
| 205 | 51.8 | 380.9 | 71,400  | 131,800 | 53.0 | 384.3 | 66,800  | 128,300 | 54.9 | 388.6 | 60,000  | 123,100 | 205 |
| 210 | 50.5 | 376.8 | 67,800  | 127,100 | 51.8 | 380.3 | 63,400  | 123,800 | 53.6 | 384.9 | 56,700  | 118,700 | 210 |
| 215 | 49.2 | 372.4 | 64,400  | 122,700 | 50.5 | 376.1 | 60,100  | 119,400 | 52.4 | 381.0 | 53,600  | 114,500 | 215 |
| 220 | 47.9 | 367.9 | 61,200  | 118,500 | 49.2 | 371.8 | 56,900  | 115,300 | 51.1 | 376.9 | 50,600  | 110,500 | 220 |
| 225 | 46.5 | 363.1 | 58,100  | 114,500 | 47.9 | 367.2 | 53,900  | 111,400 | 49.8 | 372.7 | 47,800  | 106,700 | 225 |
| 230 | 45.1 | 358.1 | 55,100  | 110,700 | 46.5 | 362.5 | 51,100  | 107,600 | 48.5 | 368.2 | 45,000  | 103,100 | 230 |
| 240 | 42.2 | 347.3 | 49,500  | 103,500 | 43.7 | 352.2 | 45,700  | 100,600 | 45.8 | 358.7 | 39,900  | 96,200  | 240 |
| 250 | 39.2 | 335.3 | 44,400  | 96,900  | 40.7 | 340.8 | 40,700  | 94,100  | 43.0 | 348.2 | 35,200  | 89,900  | 250 |
| 260 | 35.9 | 321.9 | 39,600  | 90,800  | 37.6 | 328.2 | 36,100  | 88,200  | 40.0 | 336.5 | 30,800  | 84,100  | 260 |
| 270 | 32.3 | 306.6 | 35,200  | 85,200  | 34.1 | 313.9 | 31,800  | 82,600  | 36.7 | 323.4 | 26,700  | 78,800  | 270 |
| 280 | 28.3 | 288.9 | 31,000  | 79,900  | 30.4 | 297.5 | 27,700  | 77,500  | 33.2 | 308.7 | 22,900  | 73,800  | 280 |
| 290 | 23.7 | 267.5 | 27,000  | 75,000  | 26.1 | 278.2 | 23,900  | 72,700  | 29.4 | 291.6 |         | 69,100  | 290 |
| 300 | 17.9 | 240.0 | 23,300  | 70,400  | 21.0 | 254.2 | 20,300  | 68,100  | 24.9 | 271.4 |         | 64,700  | 300 |
| 310 | 8.9  | 195.0 |         | 50,500  | 14.2 | 221.0 |         | 63,800  | 19.5 | 245.8 |         | 60,600  | 310 |
| 320 |      |       |         |         |      |       |         |         | 11.9 | 208.0 |         | 56,600  | 320 |
| 330 |      |       |         |         |      |       |         |         |      |       |         |         | 330 |
| 340 |      |       |         |         |      |       |         |         |      |       |         |         | 340 |
| 350 |      |       |         |         |      |       |         |         |      |       |         |         | 350 |
| 360 |      |       |         |         |      |       |         |         |      |       |         |         | 360 |

# MLC650 VPC-MAX S-1

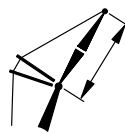
ASME B30.5



440,900 lb



144.4 ft

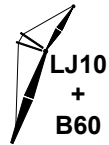


292.0 ft

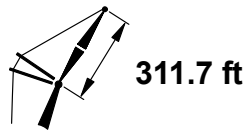
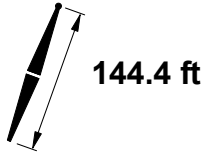
|     | 75°  |       |        |         | 70°  |       |         |      | 65°   |        |    |     |
|-----|------|-------|--------|---------|------|-------|---------|------|-------|--------|----|-----|
|     |      |       |        |         |      |       |         |      |       |        |    |     |
|     | ft   | °     | ft     | lb      | lb   | °     | ft      | lb   | °     | ft     | lb | ft  |
| 105 |      |       |        |         |      |       |         |      |       |        |    | 105 |
| 110 |      |       |        |         |      |       |         |      |       |        |    | 110 |
| 115 |      |       |        |         |      |       |         |      |       |        |    | 115 |
| 120 |      |       |        |         |      |       |         |      |       |        |    | 120 |
| 125 |      |       |        |         |      |       |         |      |       |        |    | 125 |
| 130 |      |       |        |         |      |       |         |      |       |        |    | 130 |
| 135 |      |       |        |         |      |       |         |      |       |        |    | 135 |
| 140 |      |       |        |         |      |       |         |      |       |        |    | 140 |
| 145 |      |       |        |         |      |       |         |      |       |        |    | 145 |
| 150 |      |       |        |         |      |       |         |      |       |        |    | 150 |
| 155 |      |       |        |         |      |       |         |      |       |        |    | 155 |
| 160 |      |       |        |         |      |       |         |      |       |        |    | 160 |
| 165 |      |       |        |         |      |       |         |      |       |        |    | 165 |
| 170 |      |       |        |         |      |       |         |      |       |        |    | 170 |
| 175 | 64.6 | 411.2 | 70,300 | 141,800 |      |       |         |      |       |        |    | 175 |
| 180 | 63.5 | 408.6 | 66,200 | 139,200 |      |       |         |      |       |        |    | 180 |
| 185 | 62.4 | 406.0 | 62,400 | 133,800 |      |       |         |      |       |        |    | 185 |
| 190 | 61.2 | 403.2 | 58,700 | 128,600 |      |       |         |      |       |        |    | 190 |
| 195 | 60.1 | 400.3 | 55,200 | 123,700 |      |       |         |      |       |        |    | 195 |
| 200 | 59.0 | 397.2 | 51,900 | 119,100 |      |       |         |      |       |        |    | 200 |
| 205 | 57.8 | 394.1 | 48,700 | 114,700 |      |       |         |      |       |        |    | 205 |
| 210 | 56.6 | 390.7 | 45,700 | 110,500 | 59.4 | 394.4 | 102,400 |      |       |        |    | 210 |
| 215 | 55.4 | 387.2 | 42,900 | 106,500 | 58.3 | 391.3 | 98,600  |      |       |        |    | 215 |
| 220 | 54.2 | 383.6 | 40,200 | 102,700 | 57.1 | 388.0 | 95,000  |      |       |        |    | 220 |
| 225 | 53.0 | 379.8 | 37,600 | 99,000  | 55.9 | 384.6 | 91,500  |      |       |        |    | 225 |
| 230 | 51.7 | 375.8 | 35,100 | 95,600  | 54.7 | 381.0 | 88,200  |      |       |        |    | 230 |
| 240 | 49.1 | 367.3 | 30,400 | 89,000  | 52.2 | 373.3 | 82,000  |      |       |        |    | 240 |
| 250 | 46.5 | 357.9 | 26,000 | 83,100  | 49.7 | 365.0 | 76,300  | 52.6 | 369.5 | 69,800 |    | 250 |
| 260 | 43.6 | 347.6 | 22,000 | 77,500  | 47.0 | 355.8 | 71,100  | 50.1 | 361.2 | 64,800 |    | 260 |
| 270 | 40.7 | 336.3 |        | 72,400  | 44.2 | 345.7 | 66,200  | 47.4 | 352.2 | 60,200 |    | 270 |
| 280 | 37.5 | 323.5 |        | 67,700  | 41.3 | 334.5 | 61,700  | 44.7 | 342.2 | 55,900 |    | 280 |
| 290 | 34.1 | 309.2 |        | 63,300  | 38.1 | 322.1 | 57,500  | 41.7 | 331.3 | 52,000 |    | 290 |
| 300 | 30.3 | 292.8 |        | 59,100  | 34.8 | 308.1 | 53,600  | 38.6 | 319.1 | 48,200 |    | 300 |
| 310 | 26.0 | 273.4 |        | 55,200  | 31.1 | 292.1 | 49,900  | 35.3 | 305.3 | 44,700 |    | 310 |
| 320 | 20.9 | 249.3 |        | 51,500  | 26.9 | 273.4 | 46,400  | 31.7 | 289.7 | 41,400 |    | 320 |
| 330 | 14.0 | 215.7 |        | 48,000  | 22.0 | 250.5 | 43,100  | 27.6 | 271.5 | 38,300 |    | 330 |
| 340 |      |       |        |         | 15.6 | 219.6 | 39,900  | 22.8 | 249.4 | 35,300 |    | 340 |
| 350 |      |       |        |         |      |       |         | 16.8 | 220.2 | 32,500 |    | 350 |
| 360 |      |       |        |         |      |       |         | 6.0  | 166.4 | 29,600 |    | 360 |

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440,900 lb



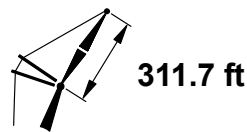
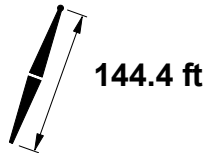
|     | 85°  |       |         |         | 83°  |       |         |         | 80°  |       |         |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|---------|---------|-----|
|     |      |       |         |         |      |       |         |         |      |       |         |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | ft  |
| 110 | 74.2 | 453.0 | 140,300 | 140,300 |      |       |         |         |      |       |         |         | 110 |
| 115 | 73.2 | 451.4 | 139,500 | 139,500 |      |       |         |         |      |       |         |         | 115 |
| 120 | 72.3 | 449.8 | 138,700 | 138,700 |      |       |         |         |      |       |         |         | 120 |
| 125 | 71.3 | 448.1 | 137,900 | 137,900 | 72.3 | 449.2 | 137,000 | 137,000 |      |       |         |         | 125 |
| 130 | 70.3 | 446.3 | 137,000 | 137,000 | 71.3 | 447.5 | 136,400 | 136,400 |      |       |         |         | 130 |
| 135 | 69.3 | 444.3 | 136,100 | 136,100 | 70.3 | 445.6 | 135,700 | 135,700 |      |       |         |         | 135 |
| 140 | 68.3 | 442.3 | 135,200 | 135,200 | 69.3 | 443.7 | 132,300 | 135,000 |      |       |         |         | 140 |
| 145 | 67.3 | 440.2 | 131,600 | 134,300 | 68.3 | 441.7 | 124,900 | 134,300 | 69.8 | 443.4 | 114,900 | 131,300 | 145 |
| 150 | 66.3 | 438.0 | 124,500 | 133,400 | 67.3 | 439.6 | 118,000 | 133,500 | 68.8 | 441.4 | 108,400 | 130,900 | 150 |
| 155 | 65.3 | 435.7 | 117,900 | 132,400 | 66.3 | 437.4 | 111,600 | 132,700 | 67.8 | 439.4 | 102,300 | 130,500 | 155 |
| 160 | 64.3 | 433.2 | 111,600 | 131,500 | 65.3 | 435.0 | 105,600 | 132,000 | 66.8 | 437.2 | 96,600  | 130,000 | 160 |
| 165 | 63.3 | 430.7 | 105,800 | 130,500 | 64.3 | 432.6 | 99,900  | 131,200 | 65.8 | 434.9 | 91,200  | 129,500 | 165 |
| 170 | 62.2 | 428.0 | 100,300 | 129,600 | 63.3 | 430.0 | 94,600  | 130,300 | 64.8 | 432.5 | 86,200  | 129,000 | 170 |
| 175 | 61.2 | 425.2 | 95,200  | 128,600 | 62.2 | 427.4 | 89,600  | 129,500 | 63.8 | 430.0 | 81,400  | 128,400 | 175 |
| 180 | 60.1 | 422.3 | 90,300  | 127,800 | 61.2 | 424.6 | 84,900  | 128,800 | 62.7 | 427.4 | 77,000  | 127,900 | 180 |
| 185 | 59.0 | 419.3 | 85,700  | 126,800 | 60.1 | 421.7 | 80,500  | 127,900 | 61.7 | 424.7 | 72,700  | 127,300 | 185 |
| 190 | 57.9 | 416.1 | 81,300  | 125,800 | 59.0 | 418.6 | 76,300  | 127,100 | 60.6 | 421.8 | 68,700  | 126,700 | 190 |
| 195 | 56.8 | 412.8 | 77,200  | 124,900 | 58.0 | 415.5 | 72,300  | 126,300 | 59.6 | 418.9 | 64,900  | 126,100 | 195 |
| 200 | 55.7 | 409.4 | 73,300  | 124,000 | 56.9 | 412.2 | 68,500  | 125,500 | 58.5 | 415.8 | 61,300  | 125,500 | 200 |
| 205 | 54.6 | 405.8 | 69,500  | 123,100 | 55.7 | 408.7 | 64,900  | 124,700 | 57.4 | 412.5 | 57,900  | 121,400 | 205 |
| 210 | 53.5 | 402.0 | 66,000  | 122,300 | 54.6 | 405.2 | 61,400  | 122,100 | 56.3 | 409.2 | 54,600  | 117,000 | 210 |
| 215 | 52.3 | 398.1 | 62,600  | 121,200 | 53.5 | 401.4 | 58,100  | 117,800 | 55.2 | 405.7 | 51,500  | 112,800 | 215 |
| 220 | 51.1 | 394.1 | 59,400  | 117,000 | 52.3 | 397.5 | 55,000  | 113,700 | 54.0 | 402.0 | 48,500  | 108,800 | 220 |
| 225 | 49.9 | 389.8 | 56,300  | 113,000 | 51.1 | 393.5 | 52,000  | 109,800 | 52.9 | 398.2 | 45,700  | 105,000 | 225 |
| 230 | 48.7 | 385.4 | 53,300  | 109,200 | 49.9 | 389.2 | 49,200  | 106,000 | 51.7 | 394.2 | 43,000  | 101,400 | 230 |
| 240 | 46.1 | 375.9 | 47,800  | 102,000 | 47.4 | 380.2 | 43,800  | 99,000  | 49.3 | 385.7 | 37,900  | 94,600  | 240 |
| 250 | 43.5 | 365.6 | 42,600  | 95,500  | 44.8 | 370.3 | 38,900  | 92,600  | 46.8 | 376.5 | 33,200  | 88,300  | 250 |
| 260 | 40.7 | 354.2 | 37,900  | 89,400  | 42.1 | 359.4 | 34,300  | 86,700  | 44.2 | 366.3 | 28,900  | 82,600  | 260 |
| 270 | 37.7 | 341.6 | 33,500  | 83,800  | 39.3 | 347.4 | 30,000  | 81,200  | 41.4 | 355.2 | 24,800  | 77,200  | 270 |
| 280 | 34.6 | 327.5 | 29,400  | 78,600  | 36.2 | 334.1 | 26,100  | 76,100  | 38.5 | 342.9 | 21,100  | 72,300  | 280 |
| 290 | 31.1 | 311.5 | 25,500  | 73,700  | 32.9 | 319.1 | 22,300  | 71,300  | 35.4 | 329.2 |         | 67,700  | 290 |
| 300 | 27.2 | 292.9 | 21,900  | 69,200  | 29.2 | 302.0 |         | 66,800  | 32.0 | 313.8 |         | 63,300  | 300 |
| 310 | 22.7 | 270.7 |         | 64,900  | 25.1 | 281.8 |         | 62,600  | 28.2 | 295.9 |         | 59,300  | 310 |
| 320 | 17.1 | 241.8 |         | 60,000  | 20.1 | 256.8 |         | 58,700  | 23.9 | 274.8 |         | 55,400  | 320 |
| 330 | 8.1  | 193.9 |         | 39,900  | 13.5 | 221.9 |         | 54,500  | 18.7 | 248.0 |         | 51,800  | 330 |
| 340 |      |       |         |         |      |       |         |         | 11.1 | 208.1 |         | 48,300  | 340 |
| 350 |      |       |         |         |      |       |         |         |      |       |         |         | 350 |
| 360 |      |       |         |         |      |       |         |         |      |       |         |         | 360 |
| 370 |      |       |         |         |      |       |         |         |      |       |         |         | 370 |
| 380 |      |       |         |         |      |       |         |         |      |       |         |         | 380 |

# MLC650 VPC-MAX S-1

ASME B30.5



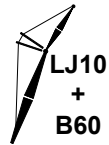
440,900 lb



|     | 75°  |       |        |         | 70°  |       |        |      | 65°   |        |    |     |
|-----|------|-------|--------|---------|------|-------|--------|------|-------|--------|----|-----|
|     |      |       |        |         |      |       |        |      |       |        |    |     |
|     | ft   | °     | ft     | lb      | lb   | °     | ft     | lb   | °     | ft     | lb | ft  |
| 110 |      |       |        |         |      |       |        |      |       |        |    | 110 |
| 115 |      |       |        |         |      |       |        |      |       |        |    | 115 |
| 120 |      |       |        |         |      |       |        |      |       |        |    | 120 |
| 125 |      |       |        |         |      |       |        |      |       |        |    | 125 |
| 130 |      |       |        |         |      |       |        |      |       |        |    | 130 |
| 135 |      |       |        |         |      |       |        |      |       |        |    | 135 |
| 140 |      |       |        |         |      |       |        |      |       |        |    | 140 |
| 145 |      |       |        |         |      |       |        |      |       |        |    | 145 |
| 150 |      |       |        |         |      |       |        |      |       |        |    | 150 |
| 155 |      |       |        |         |      |       |        |      |       |        |    | 155 |
| 160 |      |       |        |         |      |       |        |      |       |        |    | 160 |
| 165 |      |       |        |         |      |       |        |      |       |        |    | 165 |
| 170 |      |       |        |         |      |       |        |      |       |        |    | 170 |
| 175 |      |       |        |         |      |       |        |      |       |        |    | 175 |
| 180 |      |       |        |         |      |       |        |      |       |        |    | 180 |
| 185 | 64.3 | 428.2 | 59,900 | 120,400 |      |       |        |      |       |        |    | 185 |
| 190 | 63.2 | 425.6 | 56,300 | 120,300 |      |       |        |      |       |        |    | 190 |
| 195 | 62.2 | 422.9 | 52,800 | 120,300 |      |       |        |      |       |        |    | 195 |
| 200 | 61.1 | 420.2 | 49,500 | 117,100 |      |       |        |      |       |        |    | 200 |
| 205 | 60.1 | 417.2 | 46,400 | 112,700 |      |       |        |      |       |        |    | 205 |
| 210 | 59.0 | 414.2 | 43,400 | 108,600 |      |       |        |      |       |        |    | 210 |
| 215 | 57.9 | 411.0 | 40,600 | 104,600 |      |       |        |      |       |        |    | 215 |
| 220 | 56.8 | 407.7 | 37,900 | 100,800 | 59.4 | 411.3 | 93,000 |      |       |        |    | 220 |
| 225 | 55.7 | 404.3 | 35,300 | 97,200  | 58.3 | 408.2 | 89,500 |      |       |        |    | 225 |
| 230 | 54.6 | 400.7 | 32,800 | 93,700  | 57.2 | 405.0 | 86,300 |      |       |        |    | 230 |
| 240 | 52.2 | 393.0 | 28,200 | 87,300  | 55.0 | 398.1 | 80,100 |      |       |        |    | 240 |
| 250 | 49.8 | 384.7 | 23,900 | 81,300  | 52.7 | 390.5 | 74,500 |      |       |        |    | 250 |
| 260 | 47.4 | 375.6 |        | 75,800  | 50.3 | 382.3 | 69,300 | 53.1 | 386.7 | 62,900 |    | 260 |
| 270 | 44.8 | 365.7 |        | 70,800  | 47.9 | 373.4 | 64,400 | 50.7 | 378.6 | 58,300 |    | 270 |
| 280 | 42.1 | 354.8 |        | 66,100  | 45.3 | 363.7 | 60,000 | 48.3 | 369.8 | 54,100 |    | 280 |
| 290 | 39.2 | 342.8 |        | 61,700  | 42.6 | 353.0 | 55,800 | 45.7 | 360.2 | 50,100 |    | 290 |
| 300 | 36.1 | 329.5 |        | 57,600  | 39.8 | 341.2 | 51,900 | 43.0 | 349.7 | 46,400 |    | 300 |
| 310 | 32.8 | 314.5 |        | 53,700  | 36.7 | 328.2 | 48,300 | 40.2 | 338.1 | 43,000 |    | 310 |
| 320 | 29.1 | 297.2 |        | 50,100  | 33.5 | 313.5 | 44,800 | 37.2 | 325.2 | 39,700 |    | 320 |
| 330 | 25.0 | 277.0 |        | 46,700  | 29.9 | 296.8 | 41,600 | 34.0 | 310.8 | 36,600 |    | 330 |
| 340 | 20.0 | 251.8 |        | 43,400  | 25.9 | 277.2 | 38,500 | 30.5 | 294.5 | 33,800 |    | 340 |
| 350 | 13.3 | 216.5 |        | 40,200  | 21.1 | 253.2 | 35,600 | 26.5 | 275.4 | 31,000 |    | 350 |
| 360 |      |       |        |         | 14.8 | 220.8 | 32,800 | 21.9 | 252.3 | 28,400 |    | 360 |
| 370 |      |       |        |         |      |       |        | 16.0 | 221.8 | 25,800 |    | 370 |
| 380 |      |       |        |         |      |       |        | 5.1  | 163.3 | 23,200 |    | 380 |

# MLC650 VPC-MAX S-1

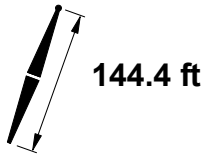
ASME B30.5



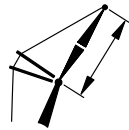
440,900 lb



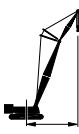
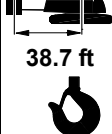
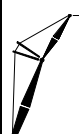
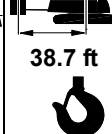
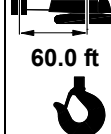
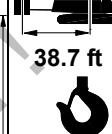
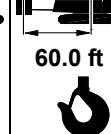
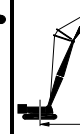
360°



144.4 ft



331.4 ft

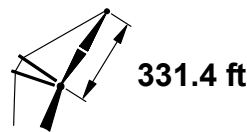
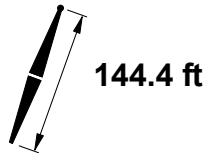
| <div>85°</div> |                                                                                   |                                                                                   |                                                                                   |                                                                                   | <div>83°</div> |                                                                                   |                                                                                   |                                                                                   | <div>80°</div> |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                 |  |  |  |  |                |  |  |  |                 |  |  |  |  |
| ft                                                                                              | °                                                                                 | ft                                                                                | lb                                                                                | lb                                                                                | °                                                                                               | ft                                                                                | lb                                                                                | lb                                                                                | °                                                                                                 | ft                                                                                  | lb                                                                                  | lb                                                                                  | ft                                                                                  |
| 115                                                                                             | 74.3                                                                              | 472.0                                                                             | 119,600                                                                           | 119,600                                                                           |                                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                                   |                                                                                     |                                                                                     |                                                                                     | 115                                                                                 |
| 120                                                                                             | 73.4                                                                              | 470.5                                                                             | 119,000                                                                           | 119,000                                                                           |                                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                                   |                                                                                     |                                                                                     |                                                                                     | 120                                                                                 |
| 125                                                                                             | 72.4                                                                              | 468.9                                                                             | 118,300                                                                           | 118,300                                                                           |                                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                                   |                                                                                     |                                                                                     |                                                                                     | 125                                                                                 |
| 130                                                                                             | 71.5                                                                              | 467.2                                                                             | 117,500                                                                           | 117,500                                                                           | 72.5                                                                                            | 468.3                                                                             | 116,800                                                                           | 116,800                                                                           |                                                                                                   |                                                                                     |                                                                                     |                                                                                     | 130                                                                                 |
| 135                                                                                             | 70.6                                                                              | 465.4                                                                             | 116,600                                                                           | 116,600                                                                           | 71.5                                                                                            | 466.6                                                                             | 116,100                                                                           | 116,100                                                                           |                                                                                                   |                                                                                     |                                                                                     |                                                                                     | 135                                                                                 |
| 140                                                                                             | 69.7                                                                              | 463.5                                                                             | 115,700                                                                           | 115,700                                                                           | 70.6                                                                                            | 464.8                                                                             | 115,400                                                                           | 115,400                                                                           |                                                                                                   |                                                                                     |                                                                                     |                                                                                     | 140                                                                                 |
| 145                                                                                             | 68.8                                                                              | 461.6                                                                             | 114,900                                                                           | 114,900                                                                           | 69.7                                                                                            | 462.9                                                                             | 114,700                                                                           | 114,700                                                                           |                                                                                                   |                                                                                     |                                                                                     |                                                                                     | 145                                                                                 |
| 150                                                                                             | 67.8                                                                              | 459.5                                                                             | 114,000                                                                           | 114,000                                                                           | 68.8                                                                                            | 460.9                                                                             | 113,900                                                                           | 113,900                                                                           |                                                                                                   |                                                                                     |                                                                                     |                                                                                     | 150                                                                                 |
| 155                                                                                             | 66.9                                                                              | 457.3                                                                             | 113,100                                                                           | 113,100                                                                           | 67.8                                                                                            | 458.9                                                                             | 108,000                                                                           | 113,200                                                                           | 69.2                                                                                              | 460.6                                                                               | 98,500                                                                              | 111,000                                                                             | 155                                                                                 |
| 160                                                                                             | 65.9                                                                              | 455.1                                                                             | 108,200                                                                           | 112,200                                                                           | 66.9                                                                                            | 456.7                                                                             | 102,000                                                                           | 112,400                                                                           | 68.3                                                                                              | 458.6                                                                               | 92,800                                                                              | 110,500                                                                             | 160                                                                                 |
| 165                                                                                             | 65.0                                                                              | 452.7                                                                             | 102,400                                                                           | 111,300                                                                           | 65.9                                                                                            | 454.4                                                                             | 96,400                                                                            | 111,700                                                                           | 67.4                                                                                              | 456.5                                                                               | 87,500                                                                              | 110,000                                                                             | 165                                                                                 |
| 170                                                                                             | 64.0                                                                              | 450.2                                                                             | 96,900                                                                            | 110,500                                                                           | 65.0                                                                                            | 452.1                                                                             | 91,100                                                                            | 110,900                                                                           | 66.4                                                                                              | 454.3                                                                               | 82,500                                                                              | 109,500                                                                             | 170                                                                                 |
| 175                                                                                             | 63.0                                                                              | 447.6                                                                             | 91,700                                                                            | 109,600                                                                           | 64.0                                                                                            | 449.6                                                                             | 86,100                                                                            | 110,200                                                                           | 65.5                                                                                              | 452.0                                                                               | 77,700                                                                              | 108,900                                                                             | 175                                                                                 |
| 180                                                                                             | 62.1                                                                              | 445.0                                                                             | 86,900                                                                            | 108,700                                                                           | 63.0                                                                                            | 447.0                                                                             | 81,400                                                                            | 109,400                                                                           | 64.5                                                                                              | 449.5                                                                               | 73,300                                                                              | 108,400                                                                             | 180                                                                                 |
| 185                                                                                             | 61.1                                                                              | 442.2                                                                             | 82,300                                                                            | 107,900                                                                           | 62.1                                                                                            | 444.3                                                                             | 77,000                                                                            | 108,600                                                                           | 63.5                                                                                              | 447.0                                                                               | 69,000                                                                              | 107,800                                                                             | 185                                                                                 |
| 190                                                                                             | 60.1                                                                              | 439.3                                                                             | 77,900                                                                            | 107,000                                                                           | 61.1                                                                                            | 441.5                                                                             | 72,800                                                                            | 107,900                                                                           | 62.6                                                                                              | 444.4                                                                               | 65,100                                                                              | 107,300                                                                             | 190                                                                                 |
| 195                                                                                             | 59.1                                                                              | 436.2                                                                             | 73,800                                                                            | 106,200                                                                           | 60.1                                                                                            | 438.6                                                                             | 68,800                                                                            | 107,100                                                                           | 61.6                                                                                              | 441.7                                                                               | 61,300                                                                              | 106,700                                                                             | 195                                                                                 |
| 200                                                                                             | 58.0                                                                              | 433.1                                                                             | 69,900                                                                            | 105,400                                                                           | 59.1                                                                                            | 435.6                                                                             | 65,000                                                                            | 106,400                                                                           | 60.6                                                                                              | 438.8                                                                               | 57,700                                                                              | 106,100                                                                             | 200                                                                                 |
| 205                                                                                             | 57.0                                                                              | 429.8                                                                             | 66,100                                                                            | 104,500                                                                           | 58.0                                                                                            | 432.5                                                                             | 61,400                                                                            | 105,700                                                                           | 59.6                                                                                              | 435.8                                                                               | 54,300                                                                              | 105,600                                                                             | 205                                                                                 |
| 210                                                                                             | 56.0                                                                              | 426.4                                                                             | 62,600                                                                            | 103,700                                                                           | 57.0                                                                                            | 429.2                                                                             | 57,900                                                                            | 104,900                                                                           | 58.6                                                                                              | 432.7                                                                               | 51,000                                                                              | 105,000                                                                             | 210                                                                                 |
| 215                                                                                             | 54.9                                                                              | 422.8                                                                             | 59,200                                                                            | 102,900                                                                           | 56.0                                                                                            | 425.8                                                                             | 54,700                                                                            | 104,200                                                                           | 57.5                                                                                              | 429.5                                                                               | 47,900                                                                              | 104,400                                                                             | 215                                                                                 |
| 220                                                                                             | 53.8                                                                              | 419.2                                                                             | 56,000                                                                            | 102,100                                                                           | 54.9                                                                                            | 422.2                                                                             | 51,600                                                                            | 103,500                                                                           | 56.5                                                                                              | 426.2                                                                               | 45,000                                                                              | 103,800                                                                             | 220                                                                                 |
| 225                                                                                             | 52.7                                                                              | 415.3                                                                             | 52,900                                                                            | 101,400                                                                           | 53.8                                                                                            | 418.5                                                                             | 48,600                                                                            | 102,800                                                                           | 55.4                                                                                              | 422.7                                                                               | 42,100                                                                              | 102,200                                                                             | 225                                                                                 |
| 230                                                                                             | 51.6                                                                              | 411.3                                                                             | 49,900                                                                            | 100,600                                                                           | 52.7                                                                                            | 414.7                                                                             | 45,700                                                                            | 102,100                                                                           | 54.4                                                                                              | 419.1                                                                               | 39,400                                                                              | 98,600                                                                              | 230                                                                                 |
| 240                                                                                             | 49.4                                                                              | 402.9                                                                             | 44,400                                                                            | 99,200                                                                            | 50.5                                                                                            | 406.6                                                                             | 40,400                                                                            | 96,300                                                                            | 52.2                                                                                              | 411.4                                                                               | 34,300                                                                              | 91,800                                                                              | 240                                                                                 |
| 250                                                                                             | 47.0                                                                              | 393.7                                                                             | 39,300                                                                            | 92,800                                                                            | 48.2                                                                                            | 397.7                                                                             | 35,500                                                                            | 89,900                                                                            | 49.9                                                                                              | 403.1                                                                               | 29,700                                                                              | 85,600                                                                              | 250                                                                                 |
| 260                                                                                             | 44.6                                                                              | 383.7                                                                             | 34,600                                                                            | 86,800                                                                            | 45.8                                                                                            | 388.2                                                                             | 30,900                                                                            | 84,000                                                                            | 47.6                                                                                              | 394.1                                                                               | 25,400                                                                              | 79,800                                                                              | 260                                                                                 |
| 270                                                                                             | 42.0                                                                              | 372.8                                                                             | 30,200                                                                            | 81,200                                                                            | 43.3                                                                                            | 377.7                                                                             | 26,700                                                                            | 78,500                                                                            | 45.2                                                                                              | 384.3                                                                               | 21,400                                                                              | 74,500                                                                              | 270                                                                                 |
| 280                                                                                             | 39.3                                                                              | 360.8                                                                             | 26,200                                                                            | 76,000                                                                            | 40.7                                                                                            | 366.3                                                                             | 22,700                                                                            | 73,400                                                                            | 42.7                                                                                              | 373.7                                                                               |                                                                                     | 69,600                                                                              | 280                                                                                 |
| 290                                                                                             | 36.5                                                                              | 347.6                                                                             | 22,400                                                                            | 71,200                                                                            | 37.9                                                                                            | 353.8                                                                             |                                                                                   | 68,700                                                                            | 40.0                                                                                              | 362.0                                                                               |                                                                                     | 65,000                                                                              | 290                                                                                 |
| 300                                                                                             | 33.4                                                                              | 332.9                                                                             |                                                                                   | 66,700                                                                            | 34.9                                                                                            | 339.8                                                                             |                                                                                   | 64,300                                                                            | 37.2                                                                                              | 349.1                                                                               |                                                                                     | 60,700                                                                              | 300                                                                                 |
| 310                                                                                             | 30.0                                                                              | 316.2                                                                             |                                                                                   | 62,400                                                                            | 31.7                                                                                            | 324.2                                                                             |                                                                                   | 60,100                                                                            | 34.2                                                                                              | 334.8                                                                               |                                                                                     | 56,700                                                                              | 310                                                                                 |
| 320                                                                                             | 26.2                                                                              | 296.8                                                                             |                                                                                   | 58,500                                                                            | 28.2                                                                                            | 306.3                                                                             |                                                                                   | 56,200                                                                            | 30.9                                                                                              | 318.6                                                                               |                                                                                     | 52,900                                                                              | 320                                                                                 |
| 330                                                                                             | 21.9                                                                              | 273.6                                                                             |                                                                                   | 54,700                                                                            | 24.2                                                                                            | 285.2                                                                             |                                                                                   | 52,500                                                                            | 27.2                                                                                              | 300.0                                                                               |                                                                                     | 49,300                                                                              | 330                                                                                 |
| 340                                                                                             | 16.4                                                                              | 243.4                                                                             |                                                                                   | 47,400                                                                            | 19.3                                                                                            | 259.1                                                                             |                                                                                   | 49,000                                                                            | 23.0                                                                                              | 277.9                                                                               |                                                                                     | 46,000                                                                              | 340                                                                                 |
| 350                                                                                             | 7.4                                                                               | 192.6                                                                             |                                                                                   | 28,900                                                                            | 12.8                                                                                            | 222.5                                                                             |                                                                                   | 42,400                                                                            | 17.9                                                                                              | 250.0                                                                               |                                                                                     | 42,700                                                                              | 350                                                                                 |
| 360                                                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                                 |                                                                                   |                                                                                   |                                                                                   | 10.4                                                                                              | 208.1                                                                               |                                                                                     | 39,600                                                                              | 360                                                                                 |
| 370                                                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                                   |                                                                                     |                                                                                     |                                                                                     | 370                                                                                 |
| 380                                                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                                   |                                                                                     |                                                                                     |                                                                                     | 380                                                                                 |

# MLC650 VPC-MAX S-1

ASME B30.5



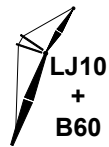
440,900 lb



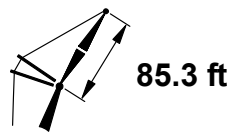
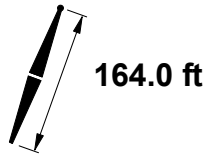
|     | 75°  |       |        |         | 70°  |       |        |      | 65°   |        |    |     |
|-----|------|-------|--------|---------|------|-------|--------|------|-------|--------|----|-----|
|     |      |       |        |         |      |       |        |      |       |        |    |     |
|     | ft   | °     | ft     | lb      | lb   | °     | ft     | lb   | lb    | °      | ft | lb  |
| 115 |      |       |        |         |      |       |        |      |       |        |    | 115 |
| 120 |      |       |        |         |      |       |        |      |       |        |    | 120 |
| 125 |      |       |        |         |      |       |        |      |       |        |    | 125 |
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| 140 |      |       |        |         |      |       |        |      |       |        |    | 140 |
| 145 |      |       |        |         |      |       |        |      |       |        |    | 145 |
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| 165 |      |       |        |         |      |       |        |      |       |        |    | 165 |
| 170 |      |       |        |         |      |       |        |      |       |        |    | 170 |
| 175 |      |       |        |         |      |       |        |      |       |        |    | 175 |
| 180 |      |       |        |         |      |       |        |      |       |        |    | 180 |
| 185 |      |       |        |         |      |       |        |      |       |        |    | 185 |
| 190 | 64.9 | 447.6 | 52,400 | 101,400 |      |       |        |      |       |        |    | 190 |
| 195 | 64.0 | 445.2 | 48,900 | 101,200 |      |       |        |      |       |        |    | 195 |
| 200 | 63.0 | 442.6 | 45,700 | 101,100 |      |       |        |      |       |        |    | 200 |
| 205 | 62.0 | 439.9 | 42,600 | 100,900 |      |       |        |      |       |        |    | 205 |
| 210 | 61.0 | 437.1 | 39,600 | 100,800 |      |       |        |      |       |        |    | 210 |
| 215 | 60.0 | 434.2 | 36,800 | 100,500 |      |       |        |      |       |        |    | 215 |
| 220 | 59.0 | 431.2 | 34,100 | 97,800  |      |       |        |      |       |        |    | 220 |
| 225 | 58.0 | 428.0 | 31,500 | 94,200  |      |       |        |      |       |        |    | 225 |
| 230 | 57.0 | 424.7 | 29,000 | 90,800  | 59.4 | 428.3 | 83,200 |      |       |        |    | 230 |
| 240 | 54.9 | 417.8 | 24,400 | 84,300  | 57.4 | 422.0 | 77,100 |      |       |        |    | 240 |
| 250 | 52.7 | 410.2 | 20,200 | 78,400  | 55.3 | 415.1 | 71,400 |      |       |        |    | 250 |
| 260 | 50.5 | 402.1 |        | 73,000  | 53.1 | 407.7 | 66,300 |      |       |        |    | 260 |
| 270 | 48.2 | 393.2 |        | 67,900  | 50.9 | 399.7 | 61,500 | 53.5 | 403.8 | 55,200 |    | 270 |
| 280 | 45.8 | 383.6 |        | 63,200  | 48.6 | 391.0 | 57,000 | 51.3 | 395.9 | 51,000 |    | 280 |
| 290 | 43.3 | 373.2 |        | 58,900  | 46.2 | 381.5 | 52,900 | 49.0 | 387.3 | 47,100 |    | 290 |
| 300 | 40.6 | 361.7 |        | 54,800  | 43.8 | 371.2 | 49,000 | 46.6 | 378.0 | 43,400 |    | 300 |
| 310 | 37.8 | 349.2 |        | 51,000  | 41.2 | 360.0 | 45,400 | 44.2 | 367.8 | 40,000 |    | 310 |
| 320 | 34.9 | 335.2 |        | 47,400  | 38.4 | 347.7 | 42,000 | 41.6 | 356.8 | 36,800 |    | 320 |
| 330 | 31.7 | 319.5 |        | 44,000  | 35.5 | 334.0 | 38,800 | 38.9 | 344.6 | 33,800 |    | 330 |
| 340 | 28.1 | 301.5 |        | 40,800  | 32.3 | 318.7 | 35,800 | 36.0 | 331.2 | 30,900 |    | 340 |
| 350 | 24.1 | 280.4 |        | 37,800  | 28.8 | 301.2 | 32,900 | 32.8 | 316.1 | 28,200 |    | 350 |
| 360 | 19.2 | 254.1 |        | 34,900  | 24.9 | 280.8 | 30,200 | 29.4 | 299.0 | 25,600 |    | 360 |
| 370 | 12.6 | 217.1 |        | 32,100  | 20.2 | 255.8 | 27,600 | 25.6 | 279.2 | 23,200 |    | 370 |
| 380 |      |       |        |         | 14.1 | 221.9 | 25,100 | 21.0 | 255.1 | 20,700 |    | 380 |

# MLC650 VPC-MAX S-1

ASME B30.5



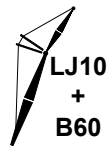
440,900 lb



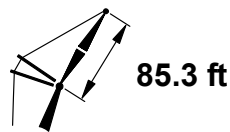
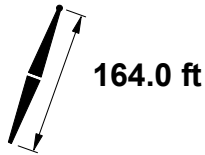
|     | 85°  |       |           |           | 83°  |       |           |           | 80°  |       |           |           |     |
|-----|------|-------|-----------|-----------|------|-------|-----------|-----------|------|-------|-----------|-----------|-----|
|     |      |       |           |           |      |       |           |           |      |       |           |           |     |
| ft  | °    | ft    | lb        | lb        | °    | ft    | lb        | lb        | °    | ft    | lb        | lb        | ft  |
| 50  | 74.2 | 254.8 | 514,900 c | 771,600 c |      |       |           |           |      |       |           |           | 50  |
| 55  | 70.6 | 252.9 | 459,100 c | 765,100 c |      |       |           |           |      |       |           |           | 55  |
| 60  | 67.0 | 250.7 | 413,500 c | 699,500 c | 71.1 | 252.5 | 398,300 c | 686,900 c |      |       |           |           | 60  |
| 65  | 63.2 | 248.0 | 375,400 b | 632,800 b | 67.5 | 250.3 | 361,500 b | 621,400 b |      |       |           |           | 65  |
| 70  | 59.2 | 244.9 | 343,000 b | 577,300 b | 63.7 | 247.7 | 330,300 b | 566,800 b |      |       |           |           | 70  |
| 75  | 55.1 | 241.3 | 315,200   | 530,300   | 59.8 | 244.7 | 303,500 b | 520,700 b | 66.4 | 248.1 | 285,900 b | 506,400 b | 75  |
| 80  | 50.7 | 237.1 | 291,000   | 489,900   | 55.7 | 241.1 | 280,200   | 481,100   | 62.5 | 245.4 | 263,800 b | 467,800 b | 80  |
| 85  | 46.0 | 232.2 | 269,800   | 454,900   | 51.3 | 237.0 | 259,700   | 446,700   | 58.6 | 242.2 | 244,500 b | 434,400 b | 85  |
| 90  | 40.8 | 226.3 | 250,900   | 424,300   | 46.7 | 232.2 | 241,500   | 416,600   | 54.4 | 238.5 | 227,400   | 405,100   | 90  |
| 95  | 34.9 | 219.1 | 233,900   | 397,200   | 41.6 | 226.5 | 225,300   | 390,000   | 50.0 | 234.2 | 212,100   | 379,300   | 95  |
| 100 | 27.9 | 209.9 | 218,500   | 372,900   | 35.8 | 219.5 | 210,600   | 366,300   | 45.2 | 229.2 | 198,300   | 356,200   | 100 |
| 105 | 18.1 | 196.2 | 204,200   | 351,100   | 29.0 | 210.7 | 197,100   | 345,000   | 39.9 | 223.1 | 185,700   | 335,600   | 105 |
| 110 |      |       |           |           | 19.8 | 197.9 | 184,600   | 325,600   | 33.9 | 215.7 | 174,300   | 316,900   | 110 |
| 115 |      |       |           |           |      |       |           |           | 26.6 | 206.0 | 163,600   | 299,900   | 115 |
| 120 |      |       |           |           |      |       |           |           | 15.9 | 190.8 | 153,300   | 284,100   | 120 |
| 125 |      |       |           |           |      |       |           |           |      |       |           |           | 125 |
| 130 |      |       |           |           |      |       |           |           |      |       |           |           | 130 |
| 135 |      |       |           |           |      |       |           |           |      |       |           |           | 135 |
| 140 |      |       |           |           |      |       |           |           |      |       |           |           | 140 |
| 145 |      |       |           |           |      |       |           |           |      |       |           |           | 145 |
| 150 |      |       |           |           |      |       |           |           |      |       |           |           | 150 |
| 155 |      |       |           |           |      |       |           |           |      |       |           |           | 155 |
| 160 |      |       |           |           |      |       |           |           |      |       |           |           | 160 |

# MLC650 VPC-MAX S-1

ASME B30.5



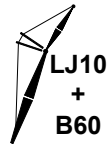
440,900 lb



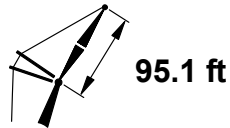
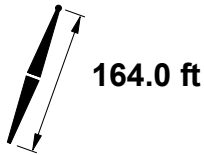
|     | 75°  |       |           |           | 70°  |       |         |         | 65°  |       |        |         |     |
|-----|------|-------|-----------|-----------|------|-------|---------|---------|------|-------|--------|---------|-----|
| ft  | °    | ft    | lb        | lb        | °    | ft    | lb      | lb      | °    | ft    | lb     | lb      | ft  |
| 50  |      |       |           |           |      |       |         |         |      |       |        |         | 50  |
| 55  |      |       |           |           |      |       |         |         |      |       |        |         | 55  |
| 60  |      |       |           |           |      |       |         |         |      |       |        |         | 60  |
| 65  |      |       |           |           |      |       |         |         |      |       |        |         | 65  |
| 70  |      |       |           |           |      |       |         |         |      |       |        |         | 70  |
| 75  |      |       |           |           |      |       |         |         |      |       |        |         | 75  |
| 80  |      |       |           |           |      |       |         |         |      |       |        |         | 80  |
| 85  |      |       |           |           |      |       |         |         |      |       |        |         | 85  |
| 90  |      |       |           |           |      |       |         |         |      |       |        |         | 90  |
| 95  | 61.7 | 241.4 | 189,800 b | 361,500 b |      |       |         |         |      |       |        |         | 95  |
| 100 | 57.7 | 238.1 | 177,400   | 339,600   |      |       |         |         |      |       |        |         | 100 |
| 105 | 53.5 | 234.3 | 166,200   | 319,900   |      |       |         |         |      |       |        |         | 105 |
| 110 | 49.0 | 229.9 | 155,900   | 302,100   |      |       |         |         |      |       |        |         | 110 |
| 115 | 44.1 | 224.6 | 146,500   | 286,000   | 56.6 | 232.5 | 129,000 | 272,200 |      |       |        |         | 115 |
| 120 | 38.7 | 218.3 | 137,800   | 271,300   | 52.3 | 228.6 | 121,300 | 258,200 |      |       |        |         | 120 |
| 125 | 32.5 | 210.5 | 129,700   | 257,800   | 47.7 | 223.9 | 114,100 | 245,400 |      |       |        |         | 125 |
| 130 | 24.8 | 200.1 | 122,000   | 245,300   | 42.7 | 218.4 | 107,500 | 233,700 |      |       |        |         | 130 |
| 135 | 12.2 | 182.1 | 114,200   | 233,400   | 37.1 | 211.7 | 101,300 | 222,800 | 50.6 | 221.2 | 87,100 | 211,700 | 135 |
| 140 |      |       |           |           | 30.6 | 203.4 | 95,300  | 212,600 | 45.9 | 216.2 | 82,000 | 202,200 | 140 |
| 145 |      |       |           |           | 22.1 | 191.8 | 89,600  | 203,100 | 40.7 | 210.3 | 77,200 | 193,300 | 145 |
| 150 |      |       |           |           |      |       |         |         | 34.9 | 203.2 | 72,600 | 184,900 | 150 |
| 155 |      |       |           |           |      |       |         |         | 27.8 | 193.9 | 68,100 | 177,100 | 155 |
| 160 |      |       |           |           |      |       |         |         | 17.9 | 180.0 | 63,600 | 169,500 | 160 |

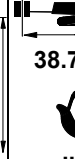
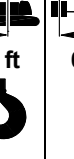
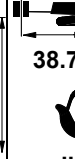
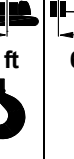
# MLC650 VPC-MAX S-1

ASME B30.5



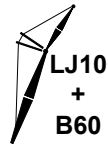
440,900 lb



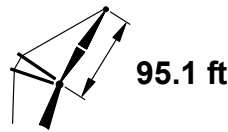
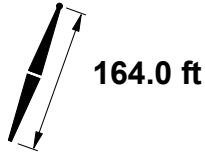
|     | 85°                                                                              |                                                                                   |                                                                                   |                                                                                   | 83°                                                                               |                                                                                   |                                                                                   |                                                                                   | 80°                                                                               |                                                                                   |                                                                                   |                                                                                    |                                                                                     |
|-----|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|     |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ft  | °                                                                                | ft                                                                                | lb                                                                                | lb                                                                                | °                                                                                 | ft                                                                                | lb                                                                                | lb                                                                                | °                                                                                 | ft                                                                                | lb                                                                                | lb                                                                                 | ft                                                                                  |
| 55  | 72.7                                                                             | 263.5                                                                             | 456,700 c                                                                         | 752,500 c                                                                         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 55                                                                                  |
| 60  | 69.5                                                                             | 261.5                                                                             | 411,100 b                                                                         | 696,000 b                                                                         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 60                                                                                  |
| 65  | 66.2                                                                             | 259.2                                                                             | 373,100 b                                                                         | 629,700 b                                                                         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 65                                                                                  |
| 70  | 62.8                                                                             | 256.5                                                                             | 340,900 b                                                                         | 574,400 b                                                                         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 70                                                                                  |
| 75  | 59.2                                                                             | 253.4                                                                             | 313,200                                                                           | 527,600                                                                           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 75                                                                                  |
| 80  | 55.6                                                                             | 249.9                                                                             | 289,100                                                                           | 487,500                                                                           | 70.0                                                                              | 261.1                                                                             | 358,900 b                                                                         | 618,100 b                                                                         | 69.0                                                                              | 259.0                                                                             | 283,000 b                                                                         | 503,300 b                                                                          | 80                                                                                  |
| 85  | 51.7                                                                             | 245.8                                                                             | 268,000                                                                           | 452,700                                                                           | 66.7                                                                              | 258.8                                                                             | 327,800 b                                                                         | 563,800 b                                                                         | 62.2                                                                              | 253.9                                                                             | 241,900 b                                                                         | 431,700 b                                                                          | 85                                                                                  |
| 90  | 47.6                                                                             | 241.1                                                                             | 249,200                                                                           | 422,200                                                                           | 63.3                                                                              | 256.2                                                                             | 301,100 b                                                                         | 517,800 b                                                                         | 58.7                                                                              | 250.7                                                                             | 224,900                                                                           | 402,600                                                                            | 90                                                                                  |
| 95  | 43.1                                                                             | 235.7                                                                             | 232,500                                                                           | 395,200                                                                           |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 55.0                                                                              | 247.1                                                                             | 209,700                                                                           | 376,900                                                                            | 95                                                                                  |
| 100 | 38.3                                                                             | 229.3                                                                             | 217,400                                                                           | 371,200                                                                           |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 51.0                                                                              | 243.0                                                                             | 196,000                                                                           | 354,000                                                                            | 100                                                                                 |
| 105 | 32.7                                                                             | 221.6                                                                             | 203,700                                                                           | 349,700                                                                           | 43.8                                                                              | 235.8                                                                             | 208,900                                                                           | 364,300                                                                           | 46.9                                                                              | 238.2                                                                             | 183,700                                                                           | 333,400                                                                            | 105                                                                                 |
| 110 | 26.0                                                                             | 211.6                                                                             | 191,100                                                                           | 330,200                                                                           | 39.0                                                                              | 229.6                                                                             | 195,800                                                                           | 343,200                                                                           | 42.4                                                                              | 232.6                                                                             | 172,400                                                                           | 314,900                                                                            | 110                                                                                 |
| 115 | 16.6                                                                             | 196.8                                                                             | 179,200                                                                           | 312,400                                                                           | 33.5                                                                              | 222.1                                                                             | 183,800                                                                           | 324,100                                                                           | 37.4                                                                              | 226.0                                                                             | 162,100                                                                           | 298,100                                                                            | 115                                                                                 |
| 120 |                                                                                  |                                                                                   |                                                                                   |                                                                                   | 27.0                                                                              | 212.5                                                                             | 172,700                                                                           | 306,800                                                                           | 31.7                                                                              | 218.0                                                                             | 152,600                                                                           | 282,800                                                                            | 120                                                                                 |
| 125 |                                                                                  |                                                                                   |                                                                                   |                                                                                   | 18.2                                                                              | 198.7                                                                             | 162,100                                                                           | 290,800                                                                           | 24.7                                                                              | 207.6                                                                             | 143,600                                                                           | 268,700                                                                            | 125                                                                                 |
| 130 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 14.4                                                                              | 191.1                                                                             | 134,800                                                                           | 255,500                                                                            | 130                                                                                 |
| 135 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 135                                                                                 |
| 140 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 140                                                                                 |
| 145 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 145                                                                                 |
| 150 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 150                                                                                 |
| 155 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 155                                                                                 |
| 160 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 160                                                                                 |
| 165 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 165                                                                                 |
| 170 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 170                                                                                 |

# MLC650 VPC-MAX S-1

ASME B30.5



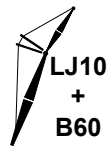
440,900 lb



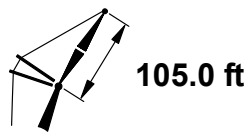
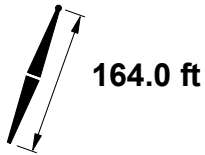
|     | 75°  |       |         |         | 70°  |       |         |         | 65°  |       |        |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|--------|---------|-----|
|     |      |       |         |         |      |       |         |         |      |       |        |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb     | lb      | ft  |
| 55  |      |       |         |         |      |       |         |         |      |       |        |         | 55  |
| 60  |      |       |         |         |      |       |         |         |      |       |        |         | 60  |
| 65  |      |       |         |         |      |       |         |         |      |       |        |         | 65  |
| 70  |      |       |         |         |      |       |         |         |      |       |        |         | 70  |
| 75  |      |       |         |         |      |       |         |         |      |       |        |         | 75  |
| 80  |      |       |         |         |      |       |         |         |      |       |        |         | 80  |
| 85  |      |       |         |         |      |       |         |         |      |       |        |         | 85  |
| 90  |      |       |         |         |      |       |         |         |      |       |        |         | 90  |
| 95  | 64.9 | 252.7 | 186,800 | 358,800 |      |       |         |         |      |       |        |         | 95  |
| 100 | 61.5 | 249.9 | 174,500 | 336,900 |      |       |         |         |      |       |        |         | 100 |
| 105 | 57.9 | 246.6 | 163,400 | 317,300 |      |       |         |         |      |       |        |         | 105 |
| 110 | 54.2 | 242.9 | 153,300 | 299,700 |      |       |         |         |      |       |        |         | 110 |
| 115 | 50.2 | 238.6 | 144,000 | 283,700 |      |       |         |         |      |       |        |         | 115 |
| 120 | 46.0 | 233.7 | 135,500 | 269,200 | 56.9 | 241.1 | 118,300 | 255,700 |      |       |        |         | 120 |
| 125 | 41.4 | 228.0 | 127,600 | 255,800 | 53.1 | 237.2 | 111,300 | 243,000 |      |       |        |         | 125 |
| 130 | 36.3 | 221.1 | 120,300 | 243,500 | 49.1 | 232.8 | 104,800 | 231,300 |      |       |        |         | 130 |
| 135 | 30.4 | 212.7 | 113,400 | 232,200 | 44.7 | 227.6 | 98,700  | 220,600 |      |       |        |         | 135 |
| 140 | 23.0 | 201.5 | 106,800 | 221,600 | 40.0 | 221.6 | 93,100  | 210,600 | 51.6 | 229.9 | 79,000 | 199,700 | 140 |
| 145 | 10.7 | 181.7 | 100,000 | 211,400 | 34.8 | 214.4 | 87,700  | 201,300 | 47.5 | 225.2 | 74,400 | 190,900 | 145 |
| 150 |      |       |         |         | 28.6 | 205.4 | 82,600  | 192,600 | 43.1 | 219.8 | 70,000 | 182,700 | 150 |
| 155 |      |       |         |         | 20.5 | 192.9 | 77,500  | 184,400 | 38.2 | 213.4 | 65,800 | 175,100 | 155 |
| 160 |      |       |         |         |      |       |         |         | 32.6 | 205.6 | 61,700 | 167,800 | 160 |
| 165 |      |       |         |         |      |       |         |         | 25.9 | 195.6 | 57,800 | 161,000 | 165 |
| 170 |      |       |         |         |      |       |         |         | 16.4 | 180.6 | 53,800 | 154,300 | 170 |

# MLC650 VPC-MAX S-1

ASME B30.5



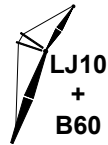
440,900 lb



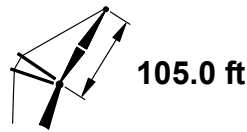
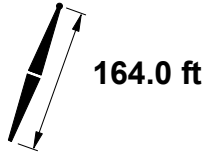
|     | 85°  |       |           |           | 83°  |       |           |           | 80°  |       |         |         |     |
|-----|------|-------|-----------|-----------|------|-------|-----------|-----------|------|-------|---------|---------|-----|
|     |      |       |           |           |      |       |           |           |      |       |         |         |     |
| ft  | °    | ft    | lb        | lb        | °    | ft    | lb        | lb        | °    | ft    | lb      | lb      | ft  |
| 55  | 74.4 | 273.9 | 455,400 b | 743,400 b |      |       |           |           |      |       |         |         | 55  |
| 60  | 71.5 | 272.1 | 409,900 b | 693,100 b |      |       |           |           |      |       |         |         | 60  |
| 65  | 68.6 | 270.0 | 371,900 b | 627,400 b | 71.9 | 271.6 | 357,500 b | 615,600 b |      |       |         |         | 65  |
| 70  | 65.6 | 267.7 | 339,800 b | 572,400 b | 69.0 | 269.6 | 326,500 b | 561,600 b |      |       |         |         | 70  |
| 75  | 62.5 | 265.0 | 312,100   | 525,800   | 66.0 | 267.3 | 299,900 b | 515,900 b |      |       |         |         | 75  |
| 80  | 59.3 | 261.9 | 288,200   | 485,800   | 62.9 | 264.6 | 276,700   | 476,700   | 68.1 | 267.5 | 259,600 | 463,000 | 80  |
| 85  | 55.9 | 258.4 | 267,100   | 451,200   | 59.7 | 261.6 | 256,500   | 442,600   | 65.1 | 265.1 | 240,500 | 429,900 | 85  |
| 90  | 52.5 | 254.5 | 248,500   | 420,800   | 56.4 | 258.2 | 238,500   | 412,800   | 62.0 | 262.3 | 223,600 | 400,900 | 90  |
| 95  | 48.8 | 250.0 | 231,900   | 394,000   | 53.0 | 254.3 | 222,500   | 386,500   | 58.7 | 259.2 | 208,500 | 375,300 | 95  |
| 100 | 44.9 | 244.9 | 217,000   | 370,200   | 49.3 | 250.0 | 208,200   | 363,100   | 55.4 | 255.7 | 194,900 | 352,500 | 100 |
| 105 | 40.7 | 239.0 | 203,500   | 348,800   | 45.5 | 245.0 | 195,200   | 342,100   | 51.9 | 251.6 | 182,700 | 332,100 | 105 |
| 110 | 36.1 | 232.2 | 191,100   | 329,500   | 41.3 | 239.2 | 183,300   | 323,200   | 48.2 | 247.1 | 171,500 | 313,700 | 110 |
| 115 | 30.8 | 223.8 | 179,800   | 311,900   | 36.8 | 232.5 | 172,500   | 306,000   | 44.3 | 241.9 | 161,400 | 297,100 | 115 |
| 120 | 24.4 | 213.2 | 169,300   | 295,900   | 31.6 | 224.4 | 162,500   | 290,300   | 40.0 | 235.9 | 152,000 | 281,900 | 120 |
| 125 | 15.2 | 197.2 | 159,200   | 281,100   | 25.4 | 214.2 | 153,200   | 275,900   | 35.3 | 228.8 | 143,300 | 267,900 | 125 |
| 130 |      |       |           |           | 16.9 | 199.4 | 144,200   | 262,600   | 29.9 | 220.2 | 135,300 | 255,100 | 130 |
| 135 |      |       |           |           |      |       |           |           | 23.2 | 209.0 | 127,600 | 243,200 | 135 |
| 140 |      |       |           |           |      |       |           |           | 13.1 | 191.2 | 120,000 | 232,000 | 140 |
| 145 |      |       |           |           |      |       |           |           |      |       |         |         | 145 |
| 150 |      |       |           |           |      |       |           |           |      |       |         |         | 150 |
| 155 |      |       |           |           |      |       |           |           |      |       |         |         | 155 |
| 160 |      |       |           |           |      |       |           |           |      |       |         |         | 160 |
| 165 |      |       |           |           |      |       |           |           |      |       |         |         | 165 |
| 170 |      |       |           |           |      |       |           |           |      |       |         |         | 170 |
| 175 |      |       |           |           |      |       |           |           |      |       |         |         | 175 |
| 180 |      |       |           |           |      |       |           |           |      |       |         |         | 180 |

# MLC650 VPC-MAX S-1

ASME B30.5



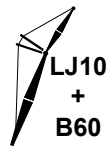
440,900 lb



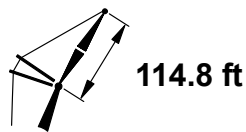
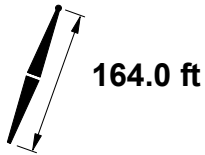
|     | 75°  |       |         |         | 70°  |       |         |         | 65°  |       |        |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|--------|---------|-----|
|     |      |       |         |         |      |       |         |         |      |       |        |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb     | lb      | ft  |
| 55  |      |       |         |         |      |       |         |         |      |       |        |         | 55  |
| 60  |      |       |         |         |      |       |         |         |      |       |        |         | 60  |
| 65  |      |       |         |         |      |       |         |         |      |       |        |         | 65  |
| 70  |      |       |         |         |      |       |         |         |      |       |        |         | 70  |
| 75  |      |       |         |         |      |       |         |         |      |       |        |         | 75  |
| 80  |      |       |         |         |      |       |         |         |      |       |        |         | 80  |
| 85  |      |       |         |         |      |       |         |         |      |       |        |         | 85  |
| 90  |      |       |         |         |      |       |         |         |      |       |        |         | 90  |
| 95  |      |       |         |         |      |       |         |         |      |       |        |         | 95  |
| 100 | 64.4 | 261.2 | 172,900 | 335,200 |      |       |         |         |      |       |        |         | 100 |
| 105 | 61.3 | 258.3 | 161,900 | 315,800 |      |       |         |         |      |       |        |         | 105 |
| 110 | 58.1 | 255.1 | 151,800 | 298,200 |      |       |         |         |      |       |        |         | 110 |
| 115 | 54.7 | 251.5 | 142,700 | 282,300 |      |       |         |         |      |       |        |         | 115 |
| 120 | 51.2 | 247.4 | 134,300 | 267,900 |      |       |         |         |      |       |        |         | 120 |
| 125 | 47.4 | 242.7 | 126,500 | 254,600 | 57.1 | 249.6 | 109,700 | 241,500 |      |       |        |         | 125 |
| 130 | 43.4 | 237.3 | 119,400 | 242,500 | 53.7 | 245.8 | 103,300 | 230,000 |      |       |        |         | 130 |
| 135 | 39.1 | 231.1 | 112,700 | 231,200 | 50.1 | 241.5 | 97,400  | 219,300 |      |       |        |         | 135 |
| 140 | 34.2 | 223.8 | 106,400 | 220,800 | 46.3 | 236.7 | 91,800  | 209,400 |      |       |        |         | 140 |
| 145 | 28.6 | 214.7 | 100,400 | 211,100 | 42.3 | 231.1 | 86,600  | 200,200 | 52.4 | 238.5 | 72,800 | 189,500 | 145 |
| 150 | 21.5 | 202.7 | 94,700  | 202,000 | 37.8 | 224.6 | 81,700  | 191,700 | 48.8 | 234.1 | 68,500 | 181,400 | 150 |
| 155 | 9.4  | 181.1 | 88,700  | 193,200 | 32.8 | 216.9 | 77,100  | 183,700 | 44.9 | 229.0 | 64,400 | 173,900 | 155 |
| 160 |      |       |         |         | 26.8 | 207.2 | 72,600  | 176,100 | 40.7 | 223.1 | 60,600 | 166,800 | 160 |
| 165 |      |       |         |         | 19.0 | 193.8 | 68,100  | 168,900 | 36.0 | 216.2 | 56,900 | 160,100 | 165 |
| 170 |      |       |         |         |      |       |         |         | 30.7 | 207.8 | 53,400 | 153,700 | 170 |
| 175 |      |       |         |         |      |       |         |         | 24.3 | 197.1 | 49,900 | 147,700 | 175 |
| 180 |      |       |         |         |      |       |         |         | 15.1 | 181.0 | 46,300 | 141,900 | 180 |

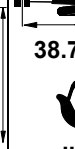
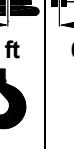
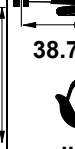
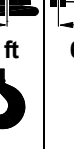
# MLC650 VPC-MAX S-1

ASME B30.5



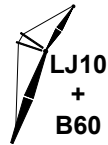
440,900 lb



|     | 85°                                                                              |                                                                                   |                                                                                   |                                                                                   | 83°                                                                               |                                                                                   |                                                                                   |                                                                                   | 80°                                                                               |                                                                                   |                                                                                   |                                                                                    |                                                                                     |
|-----|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|     |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ft  | °                                                                                | ft                                                                                | lb                                                                                | lb                                                                                | °                                                                                 | ft                                                                                | lb                                                                                | lb                                                                                | °                                                                                 | ft                                                                                | lb                                                                                | lb                                                                                 | ft                                                                                  |
| 60  | 73.2                                                                             | 282.5                                                                             | 407,400 b                                                                         | 680,200 b                                                                         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 60                                                                                  |
| 65  | 70.5                                                                             | 280.7                                                                             | 369,500 b                                                                         | 624,200 b                                                                         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 65                                                                                  |
| 70  | 67.8                                                                             | 278.6                                                                             | 337,400 b                                                                         | 569,400 b                                                                         | 70.9                                                                              | 280.3                                                                             | 323,800 b                                                                         | 558,500 b                                                                         |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 70                                                                                  |
| 75  | 65.0                                                                             | 276.2                                                                             | 309,800                                                                           | 523,000                                                                           | 68.2                                                                              | 278.2                                                                             | 297,300                                                                           | 513,000                                                                           |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 75                                                                                  |
| 80  | 62.2                                                                             | 273.4                                                                             | 285,900                                                                           | 483,300                                                                           | 65.4                                                                              | 275.8                                                                             | 274,200                                                                           | 473,900                                                                           |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 80                                                                                  |
| 85  | 59.3                                                                             | 270.4                                                                             | 264,900                                                                           | 448,700                                                                           | 62.6                                                                              | 273.1                                                                             | 254,000                                                                           | 440,000                                                                           | 67.4                                                                              | 276.1                                                                             | 237,700                                                                           | 427,100                                                                            | 85                                                                                  |
| 90  | 56.3                                                                             | 266.9                                                                             | 246,400                                                                           | 418,500                                                                           | 59.7                                                                              | 270.1                                                                             | 236,100                                                                           | 410,400                                                                           | 64.6                                                                              | 273.6                                                                             | 220,800                                                                           | 398,300                                                                            | 90                                                                                  |
| 95  | 53.1                                                                             | 263.1                                                                             | 229,800                                                                           | 391,800                                                                           | 56.7                                                                              | 266.7                                                                             | 220,200                                                                           | 384,200                                                                           | 61.7                                                                              | 270.8                                                                             | 205,800                                                                           | 372,800                                                                            | 95                                                                                  |
| 100 | 49.8                                                                             | 258.8                                                                             | 215,000                                                                           | 368,000                                                                           | 53.6                                                                              | 263.0                                                                             | 205,900                                                                           | 360,800                                                                           | 58.8                                                                              | 267.7                                                                             | 192,300                                                                           | 350,100                                                                            | 100                                                                                 |
| 105 | 46.4                                                                             | 253.9                                                                             | 201,600                                                                           | 346,800                                                                           | 50.3                                                                              | 258.7                                                                             | 193,000                                                                           | 339,900                                                                           | 55.8                                                                              | 264.2                                                                             | 180,200                                                                           | 329,800                                                                            | 105                                                                                 |
| 110 | 42.7                                                                             | 248.4                                                                             | 189,400                                                                           | 327,600                                                                           | 46.9                                                                              | 254.0                                                                             | 181,300                                                                           | 321,100                                                                           | 52.6                                                                              | 260.3                                                                             | 169,100                                                                           | 311,500                                                                            | 110                                                                                 |
| 115 | 38.6                                                                             | 242.1                                                                             | 178,200                                                                           | 310,200                                                                           | 43.2                                                                              | 248.6                                                                             | 170,600                                                                           | 304,000                                                                           | 49.3                                                                              | 255.9                                                                             | 159,000                                                                           | 294,900                                                                            | 115                                                                                 |
| 120 | 34.2                                                                             | 234.8                                                                             | 168,000                                                                           | 294,300                                                                           | 39.2                                                                              | 242.4                                                                             | 160,700                                                                           | 288,500                                                                           | 45.8                                                                              | 251.0                                                                             | 149,800                                                                           | 279,800                                                                            | 120                                                                                 |
| 125 | 29.1                                                                             | 225.9                                                                             | 158,500                                                                           | 279,700                                                                           | 34.9                                                                              | 235.2                                                                             | 151,600                                                                           | 274,200                                                                           | 42.0                                                                              | 245.3                                                                             | 141,300                                                                           | 266,000                                                                            | 125                                                                                 |
| 130 | 23.0                                                                             | 214.6                                                                             | 149,500                                                                           | 266,300                                                                           | 29.9                                                                              | 226.6                                                                             | 143,200                                                                           | 261,100                                                                           | 38.0                                                                              | 238.9                                                                             | 133,400                                                                           | 253,300                                                                            | 130                                                                                 |
| 135 | 14.1                                                                             | 197.5                                                                             | 140,900                                                                           | 253,800                                                                           | 23.9                                                                              | 215.7                                                                             | 135,200                                                                           | 249,000                                                                           | 33.4                                                                              | 231.3                                                                             | 126,000                                                                           | 241,500                                                                            | 135                                                                                 |
| 140 |                                                                                  |                                                                                   |                                                                                   |                                                                                   | 15.7                                                                              | 199.9                                                                             | 127,500                                                                           | 237,600                                                                           | 28.2                                                                              | 222.2                                                                             | 119,000                                                                           | 230,600                                                                            | 140                                                                                 |
| 145 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 21.8                                                                              | 210.3                                                                             | 112,400                                                                           | 220,500                                                                            | 145                                                                                 |
| 150 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 11.9                                                                              | 191.2                                                                             | 105,800                                                                           | 210,800                                                                            | 150                                                                                 |
| 155 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 155                                                                                 |
| 160 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 160                                                                                 |
| 165 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 165                                                                                 |
| 170 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 170                                                                                 |
| 175 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 175                                                                                 |
| 180 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 180                                                                                 |
| 185 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 185                                                                                 |
| 190 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 190                                                                                 |

# MLC650 VPC-MAX S-1

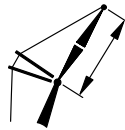
ASME B30.5



440,900 lb



164.0 ft

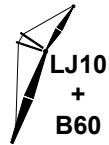


114.8 ft

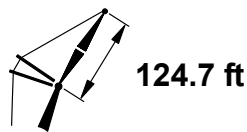
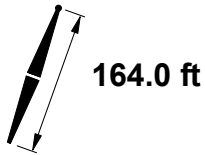
|     | 75°  |       |         |         | 70°  |       |         |         | 65°  |       |        |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|--------|---------|-----|
|     |      |       |         |         |      |       |         |         |      |       |        |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb     | lb      | ft  |
| 60  |      |       |         |         |      |       |         |         |      |       |        |         | 60  |
| 65  |      |       |         |         |      |       |         |         |      |       |        |         | 65  |
| 70  |      |       |         |         |      |       |         |         |      |       |        |         | 70  |
| 75  |      |       |         |         |      |       |         |         |      |       |        |         | 75  |
| 80  |      |       |         |         |      |       |         |         |      |       |        |         | 80  |
| 85  |      |       |         |         |      |       |         |         |      |       |        |         | 85  |
| 90  |      |       |         |         |      |       |         |         |      |       |        |         | 90  |
| 95  |      |       |         |         |      |       |         |         |      |       |        |         | 95  |
| 100 |      |       |         |         |      |       |         |         |      |       |        |         | 100 |
| 105 | 64.0 | 269.7 | 158,800 | 313,100 |      |       |         |         |      |       |        |         | 105 |
| 110 | 61.1 | 266.8 | 148,900 | 295,600 |      |       |         |         |      |       |        |         | 110 |
| 115 | 58.2 | 263.6 | 139,800 | 279,800 |      |       |         |         |      |       |        |         | 115 |
| 120 | 55.1 | 260.0 | 131,500 | 265,500 |      |       |         |         |      |       |        |         | 120 |
| 125 | 51.9 | 256.0 | 123,900 | 252,300 |      |       |         |         |      |       |        |         | 125 |
| 130 | 48.6 | 251.5 | 116,800 | 240,200 | 57.3 | 258.1 | 100,300 | 227,400 |      |       |        |         | 130 |
| 135 | 45.0 | 246.5 | 110,200 | 229,100 | 54.2 | 254.4 | 94,400  | 216,800 |      |       |        |         | 135 |
| 140 | 41.2 | 240.7 | 104,100 | 218,800 | 51.0 | 250.3 | 89,000  | 207,000 |      |       |        |         | 140 |
| 145 | 37.1 | 234.0 | 98,300  | 209,200 | 47.6 | 245.6 | 83,900  | 198,000 |      |       |        |         | 145 |
| 150 | 32.4 | 226.2 | 92,900  | 200,200 | 44.0 | 240.4 | 79,100  | 189,500 | 53.1 | 247.2 | 65,400 | 178,900 | 150 |
| 155 | 27.0 | 216.6 | 87,700  | 191,900 | 40.1 | 234.4 | 74,600  | 181,600 | 49.8 | 242.9 | 61,500 | 171,400 | 155 |
| 160 | 20.2 | 203.8 | 82,600  | 183,900 | 35.8 | 227.4 | 70,300  | 174,200 | 46.3 | 238.0 | 57,700 | 164,400 | 160 |
| 165 | 8.1  | 180.2 | 77,300  | 176,200 | 31.0 | 219.2 | 66,200  | 167,200 | 42.6 | 232.5 | 54,200 | 157,800 | 165 |
| 170 |      |       |         |         | 25.3 | 208.9 | 62,200  | 160,500 | 38.6 | 226.2 | 50,800 | 151,600 | 170 |
| 175 |      |       |         |         | 17.8 | 194.7 | 58,300  | 154,200 | 34.1 | 218.8 | 47,600 | 145,700 | 175 |
| 180 |      |       |         |         |      |       |         |         | 29.1 | 209.9 | 44,400 | 140,200 | 180 |
| 185 |      |       |         |         |      |       |         |         | 22.9 | 198.6 | 41,300 | 134,800 | 185 |
| 190 |      |       |         |         |      |       |         |         | 13.9 | 181.3 | 38,100 | 129,600 | 190 |

# MLC650 VPC-MAX S-1

ASME B30.5



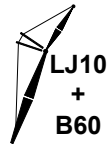
440,900 lb



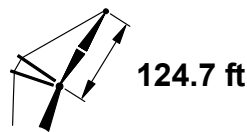
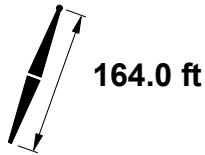
|     | 85°  |       |           |           | 83°  |       |           |           | 80°  |       |         |         |     |
|-----|------|-------|-----------|-----------|------|-------|-----------|-----------|------|-------|---------|---------|-----|
|     |      |       |           |           |      |       |           |           |      |       |         |         |     |
| ft  | °    | ft    | lb        | lb        | °    | ft    | lb        | lb        | °    | ft    | lb      | lb      | ft  |
| 60  | 74.6 | 292.9 | 441,700 b | 638,600 b |      |       |           |           |      |       |         |         | 60  |
| 65  | 72.1 | 291.2 | 401,000 b | 622,800 b |      |       |           |           |      |       |         |         | 65  |
| 70  | 69.7 | 289.3 | 366,500   | 568,300   | 72.5 | 290.8 | 352,800 b | 557,400 b |      |       |         |         | 70  |
| 75  | 67.2 | 287.1 | 336,900   | 522,200   | 70.0 | 288.9 | 324,200   | 512,100   |      |       |         |         | 75  |
| 80  | 64.6 | 284.6 | 311,200   | 482,500   | 67.5 | 286.7 | 299,400   | 473,200   |      |       |         |         | 80  |
| 85  | 62.0 | 281.9 | 288,700   | 448,200   | 65.0 | 284.3 | 277,700   | 439,400   | 69.3 | 286.8 | 261,200 | 426,400 | 85  |
| 90  | 59.3 | 278.8 | 268,900   | 418,100   | 62.4 | 281.6 | 258,500   | 409,900   | 66.8 | 284.6 | 243,000 | 397,700 | 90  |
| 95  | 56.5 | 275.5 | 251,200   | 391,500   | 59.7 | 278.6 | 241,400   | 383,800   | 64.2 | 282.1 | 226,800 | 372,300 | 95  |
| 100 | 53.7 | 271.7 | 235,300   | 367,800   | 56.9 | 275.2 | 226,100   | 360,500   | 61.6 | 279.3 | 212,300 | 349,700 | 100 |
| 105 | 50.7 | 267.5 | 221,000   | 346,600   | 54.1 | 271.5 | 212,200   | 339,700   | 58.9 | 276.2 | 199,200 | 329,500 | 105 |
| 110 | 47.5 | 262.9 | 208,000   | 327,500   | 51.1 | 267.4 | 199,700   | 321,000   | 56.1 | 272.7 | 187,300 | 311,300 | 110 |
| 115 | 44.2 | 257.7 | 196,100   | 310,200   | 48.0 | 262.8 | 188,300   | 304,000   | 53.2 | 268.9 | 176,500 | 294,800 | 115 |
| 120 | 40.7 | 251.8 | 185,200   | 294,400   | 44.7 | 257.7 | 177,800   | 288,500   | 50.2 | 264.7 | 166,600 | 279,700 | 120 |
| 125 | 36.8 | 245.1 | 175,200   | 280,000   | 41.2 | 251.9 | 168,100   | 274,400   | 47.0 | 259.9 | 157,400 | 266,000 | 125 |
| 130 | 32.6 | 237.3 | 165,900   | 266,700   | 37.4 | 245.4 | 159,200   | 261,400   | 43.7 | 254.6 | 149,000 | 253,400 | 130 |
| 135 | 27.7 | 227.9 | 157,200   | 254,400   | 33.2 | 237.7 | 150,800   | 249,400   | 40.1 | 248.6 | 141,200 | 241,700 | 135 |
| 140 | 21.7 | 215.9 | 149,000   | 243,100   | 28.4 | 228.6 | 143,000   | 238,200   | 36.2 | 241.8 | 133,900 | 230,900 | 140 |
| 145 | 13.0 | 197.7 | 141,000   | 232,300   | 22.7 | 217.1 | 135,700   | 227,900   | 31.8 | 233.7 | 127,000 | 220,900 | 145 |
| 150 |      |       |           |           | 14.6 | 200.3 | 128,500   | 218,100   | 26.8 | 224.0 | 120,500 | 211,600 | 150 |
| 155 |      |       |           |           |      |       |           |           | 20.6 | 211.5 | 114,300 | 202,800 | 155 |
| 160 |      |       |           |           |      |       |           |           | 10.9 | 191.0 | 108,100 | 194,300 | 160 |
| 165 |      |       |           |           |      |       |           |           |      |       |         |         | 165 |
| 170 |      |       |           |           |      |       |           |           |      |       |         |         | 170 |
| 175 |      |       |           |           |      |       |           |           |      |       |         |         | 175 |
| 180 |      |       |           |           |      |       |           |           |      |       |         |         | 180 |
| 185 |      |       |           |           |      |       |           |           |      |       |         |         | 185 |
| 190 |      |       |           |           |      |       |           |           |      |       |         |         | 190 |
| 195 |      |       |           |           |      |       |           |           |      |       |         |         | 195 |
| 200 |      |       |           |           |      |       |           |           |      |       |         |         | 200 |

# MLC650 VPC-MAX S-1

ASME B30.5



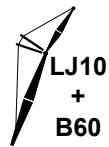
440,900 lb



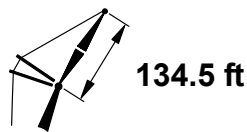
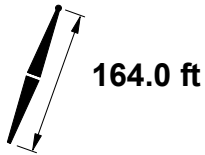
|     | 75°  |       |         |         | 70°  |       |         |         | 65°  |       |        |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|--------|---------|-----|
|     |      |       |         |         |      |       |         |         |      |       |        |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb     | lb      | ft  |
| 60  |      |       |         |         |      |       |         |         |      |       |        |         | 60  |
| 65  |      |       |         |         |      |       |         |         |      |       |        |         | 65  |
| 70  |      |       |         |         |      |       |         |         |      |       |        |         | 70  |
| 75  |      |       |         |         |      |       |         |         |      |       |        |         | 75  |
| 80  |      |       |         |         |      |       |         |         |      |       |        |         | 80  |
| 85  |      |       |         |         |      |       |         |         |      |       |        |         | 85  |
| 90  |      |       |         |         |      |       |         |         |      |       |        |         | 90  |
| 95  |      |       |         |         |      |       |         |         |      |       |        |         | 95  |
| 100 |      |       |         |         |      |       |         |         |      |       |        |         | 100 |
| 105 |      |       |         |         |      |       |         |         |      |       |        |         | 105 |
| 110 | 63.7 | 278.1 | 166,800 | 295,300 |      |       |         |         |      |       |        |         | 110 |
| 115 | 61.0 | 275.3 | 157,000 | 279,600 |      |       |         |         |      |       |        |         | 115 |
| 120 | 58.3 | 272.1 | 148,000 | 265,300 |      |       |         |         |      |       |        |         | 120 |
| 125 | 55.5 | 268.6 | 139,700 | 252,200 |      |       |         |         |      |       |        |         | 125 |
| 130 | 52.6 | 264.7 | 132,100 | 240,200 |      |       |         |         |      |       |        |         | 130 |
| 135 | 49.5 | 260.3 | 125,000 | 229,100 | 57.5 | 266.6 | 109,000 | 216,700 |      |       |        |         | 135 |
| 140 | 46.3 | 255.5 | 118,400 | 218,800 | 54.7 | 263.0 | 103,000 | 207,000 |      |       |        |         | 140 |
| 145 | 42.9 | 250.0 | 112,200 | 209,300 | 51.7 | 258.9 | 97,500  | 197,900 |      |       |        |         | 145 |
| 150 | 39.3 | 243.9 | 106,500 | 200,500 | 48.7 | 254.5 | 92,300  | 189,500 |      |       |        |         | 150 |
| 155 | 35.3 | 236.8 | 101,000 | 192,200 | 45.4 | 249.5 | 87,500  | 181,700 | 53.6 | 255.8 | 74,100 | 171,400 | 155 |
| 160 | 30.9 | 228.5 | 95,900  | 184,400 | 41.9 | 243.8 | 82,900  | 174,300 | 50.6 | 251.6 | 70,000 | 164,400 | 160 |
| 165 | 25.7 | 218.4 | 90,900  | 177,100 | 38.2 | 237.4 | 78,500  | 167,400 | 47.5 | 246.9 | 66,100 | 157,900 | 165 |
| 170 | 19.0 | 204.8 | 86,100  | 170,100 | 34.1 | 230.1 | 74,400  | 160,900 | 44.2 | 241.7 | 62,500 | 151,700 | 170 |
| 175 | 6.9  | 178.9 | 80,900  | 163,300 | 29.5 | 221.3 | 70,400  | 154,800 | 40.6 | 235.8 | 59,000 | 145,900 | 175 |
| 180 |      |       |         |         | 24.0 | 210.5 | 66,600  | 148,900 | 36.8 | 229.1 | 55,700 | 140,400 | 180 |
| 185 |      |       |         |         | 16.7 | 195.4 | 62,800  | 143,300 | 32.5 | 221.3 | 52,500 | 135,200 | 185 |
| 190 |      |       |         |         |      |       |         |         | 27.6 | 211.9 | 49,400 | 130,300 | 190 |
| 195 |      |       |         |         |      |       |         |         | 21.6 | 199.9 | 46,400 | 125,500 | 195 |
| 200 |      |       |         |         |      |       |         |         | 12.9 | 181.5 | 43,200 | 120,800 | 200 |

# MLC650 VPC-MAX S-1

ASME B30.5



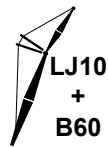
440,900 lb



|     | 85°  |       |         |         | 83°  |       |         |         | 80°  |       |         |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|---------|---------|-----|
|     |      |       |         |         |      |       |         |         |      |       |         |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | ft  |
| 65  | 73.5 | 301.6 | 398,600 | 585,900 |      |       |         |         |      |       |         |         | 65  |
| 70  | 71.2 | 299.9 | 364,100 | 565,400 |      |       |         |         |      |       |         |         | 70  |
| 75  | 68.9 | 297.9 | 334,600 | 519,400 | 71.6 | 299.4 | 321,600 | 509,200 |      |       |         |         | 75  |
| 80  | 66.6 | 295.6 | 308,900 | 480,000 | 69.3 | 297.4 | 296,900 | 470,500 |      |       |         |         | 80  |
| 85  | 64.2 | 293.1 | 286,500 | 445,700 | 66.9 | 295.2 | 275,200 | 436,800 |      |       |         |         | 85  |
| 90  | 61.8 | 290.4 | 266,600 | 415,700 | 64.6 | 292.8 | 256,000 | 407,400 | 68.6 | 295.4 | 240,200 | 395,000 | 90  |
| 95  | 59.3 | 287.3 | 248,900 | 389,200 | 62.2 | 290.1 | 239,000 | 381,400 | 66.2 | 293.1 | 224,100 | 369,800 | 95  |
| 100 | 56.8 | 284.0 | 233,100 | 365,600 | 59.7 | 287.1 | 223,700 | 358,300 | 63.9 | 290.6 | 209,600 | 347,300 | 100 |
| 105 | 54.1 | 280.3 | 218,800 | 344,500 | 57.1 | 283.8 | 209,900 | 337,500 | 61.4 | 287.8 | 196,600 | 327,100 | 105 |
| 110 | 51.4 | 276.2 | 205,900 | 325,500 | 54.5 | 280.1 | 197,400 | 318,800 | 58.9 | 284.7 | 184,800 | 309,000 | 110 |
| 115 | 48.5 | 271.7 | 194,100 | 308,200 | 51.8 | 276.1 | 186,000 | 301,900 | 56.3 | 281.3 | 174,000 | 292,500 | 115 |
| 120 | 45.5 | 266.7 | 183,300 | 292,500 | 48.9 | 271.7 | 175,600 | 286,500 | 53.7 | 277.5 | 164,100 | 277,600 | 120 |
| 125 | 42.3 | 261.2 | 173,300 | 278,200 | 45.9 | 266.7 | 166,000 | 272,400 | 50.9 | 273.4 | 155,100 | 263,900 | 125 |
| 130 | 38.9 | 254.9 | 164,100 | 265,000 | 42.8 | 261.3 | 157,200 | 259,500 | 48.0 | 268.8 | 146,700 | 251,300 | 130 |
| 135 | 35.2 | 247.8 | 155,600 | 252,800 | 39.4 | 255.2 | 148,900 | 247,600 | 45.0 | 263.7 | 138,900 | 239,700 | 135 |
| 140 | 31.1 | 239.6 | 147,600 | 241,500 | 35.8 | 248.2 | 141,300 | 236,500 | 41.8 | 258.1 | 131,700 | 229,000 | 140 |
| 145 | 26.4 | 229.7 | 140,100 | 231,000 | 31.7 | 240.1 | 134,100 | 226,200 | 38.3 | 251.7 | 125,000 | 219,100 | 145 |
| 150 | 20.6 | 217.1 | 132,900 | 221,200 | 27.1 | 230.5 | 127,300 | 216,700 | 34.6 | 244.5 | 118,600 | 209,800 | 150 |
| 155 | 12.1 | 197.7 | 125,900 | 211,900 | 21.5 | 218.4 | 120,900 | 207,700 | 30.4 | 236.0 | 112,700 | 201,100 | 155 |
| 160 |      |       |         |         | 13.7 | 200.6 | 114,500 | 199,200 | 25.6 | 225.8 | 107,000 | 193,000 | 160 |
| 165 |      |       |         |         |      |       |         |         | 19.5 | 212.5 | 101,500 | 185,300 | 165 |
| 170 |      |       |         |         |      |       |         |         | 9.9  | 190.6 | 95,900  | 177,900 | 170 |
| 175 |      |       |         |         |      |       |         |         |      |       |         |         | 175 |
| 180 |      |       |         |         |      |       |         |         |      |       |         |         | 180 |
| 185 |      |       |         |         |      |       |         |         |      |       |         |         | 185 |
| 190 |      |       |         |         |      |       |         |         |      |       |         |         | 190 |
| 195 |      |       |         |         |      |       |         |         |      |       |         |         | 195 |
| 200 |      |       |         |         |      |       |         |         |      |       |         |         | 200 |
| 205 |      |       |         |         |      |       |         |         |      |       |         |         | 205 |
| 210 |      |       |         |         |      |       |         |         |      |       |         |         | 210 |

# MLC650 VPC-MAX S-1

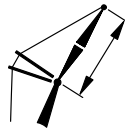
ASME B30.5



440,900 lb



164.0 ft

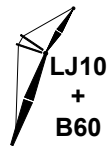


134.5 ft

|     | 75°  |       |         |         | 70°  |       |         |         | 65°  |       |        |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|--------|---------|-----|
|     |      |       |         |         |      |       |         |         |      |       |        |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb     | lb      | ft  |
| 65  |      |       |         |         |      |       |         |         |      |       |        |         | 65  |
| 70  |      |       |         |         |      |       |         |         |      |       |        |         | 70  |
| 75  |      |       |         |         |      |       |         |         |      |       |        |         | 75  |
| 80  |      |       |         |         |      |       |         |         |      |       |        |         | 80  |
| 85  |      |       |         |         |      |       |         |         |      |       |        |         | 85  |
| 90  |      |       |         |         |      |       |         |         |      |       |        |         | 90  |
| 95  |      |       |         |         |      |       |         |         |      |       |        |         | 95  |
| 100 |      |       |         |         |      |       |         |         |      |       |        |         | 100 |
| 105 |      |       |         |         |      |       |         |         |      |       |        |         | 105 |
| 110 |      |       |         |         |      |       |         |         |      |       |        |         | 110 |
| 115 | 63.3 | 286.6 | 154,100 | 277,100 |      |       |         |         |      |       |        |         | 115 |
| 120 | 60.9 | 283.8 | 145,100 | 262,800 |      |       |         |         |      |       |        |         | 120 |
| 125 | 58.4 | 280.6 | 136,900 | 249,800 |      |       |         |         |      |       |        |         | 125 |
| 130 | 55.8 | 277.1 | 129,300 | 237,800 |      |       |         |         |      |       |        |         | 130 |
| 135 | 53.1 | 273.3 | 122,300 | 226,800 |      |       |         |         |      |       |        |         | 135 |
| 140 | 50.3 | 269.1 | 115,800 | 216,600 | 57.7 | 275.1 | 100,000 | 204,500 |      |       |        |         | 140 |
| 145 | 47.4 | 264.4 | 109,700 | 207,200 | 55.1 | 271.5 | 94,600  | 195,500 |      |       |        |         | 145 |
| 150 | 44.3 | 259.2 | 104,000 | 198,400 | 52.3 | 267.6 | 89,500  | 187,200 |      |       |        |         | 150 |
| 155 | 41.1 | 253.4 | 98,600  | 190,200 | 49.5 | 263.2 | 84,700  | 179,400 |      |       |        |         | 155 |
| 160 | 37.6 | 246.9 | 93,600  | 182,500 | 46.6 | 258.4 | 80,200  | 172,100 | 54.1 | 264.4 | 66,900 | 162,000 | 160 |
| 165 | 33.8 | 239.4 | 88,800  | 175,300 | 43.5 | 253.1 | 75,900  | 165,300 | 51.3 | 260.3 | 63,100 | 155,500 | 165 |
| 170 | 29.5 | 230.7 | 84,300  | 168,500 | 40.1 | 247.1 | 71,900  | 158,800 | 48.5 | 255.8 | 59,600 | 149,400 | 170 |
| 175 | 24.4 | 220.0 | 79,900  | 162,000 | 36.6 | 240.4 | 68,000  | 152,800 | 45.4 | 250.8 | 56,200 | 143,700 | 175 |
| 180 | 18.0 | 205.7 | 75,600  | 155,900 | 32.6 | 232.6 | 64,400  | 147,000 | 42.3 | 245.2 | 52,900 | 138,200 | 180 |
| 185 | 5.6  | 177.1 | 70,800  | 149,700 | 28.2 | 223.4 | 60,800  | 141,600 | 38.9 | 239.0 | 49,900 | 133,100 | 185 |
| 190 |      |       |         |         | 22.8 | 211.9 | 57,400  | 136,400 | 35.2 | 231.9 | 46,900 | 128,200 | 190 |
| 195 |      |       |         |         | 15.7 | 195.9 | 53,900  | 131,300 | 31.0 | 223.6 | 44,100 | 123,600 | 195 |
| 200 |      |       |         |         |      |       |         |         | 26.3 | 213.7 | 41,300 | 119,100 | 200 |
| 205 |      |       |         |         |      |       |         |         | 20.5 | 201.0 | 38,500 | 114,900 | 205 |
| 210 |      |       |         |         |      |       |         |         | 11.9 | 181.5 | 35,600 | 110,600 | 210 |

# MLC650 VPC-MAX S-1

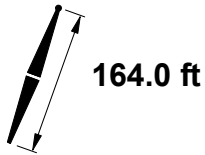
ASME B30.5



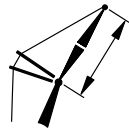
440,900 lb



360°



164.0 ft

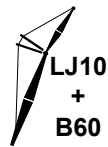


144.4 ft

|     | 85°  |       |         |         | 83°  |       |         |         | 80°  |       |         |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|---------|---------|-----|
|     |      |       |         |         |      |       |         |         |      |       |         |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | ft  |
| 65  | 74.7 | 312.0 | 396,800 | 535,200 |      |       |         |         |      |       |         |         | 65  |
| 70  | 72.6 | 310.3 | 362,400 | 535,200 |      |       |         |         |      |       |         |         | 70  |
| 75  | 70.5 | 308.5 | 332,800 | 517,100 | 72.9 | 309.8 | 319,800 | 506,800 |      |       |         |         | 75  |
| 80  | 68.3 | 306.4 | 307,200 | 477,800 | 70.8 | 308.0 | 295,100 | 468,200 |      |       |         |         | 80  |
| 85  | 66.1 | 304.1 | 284,800 | 443,700 | 68.6 | 306.0 | 273,400 | 434,700 |      |       |         |         | 85  |
| 90  | 63.9 | 301.6 | 265,000 | 413,800 | 66.4 | 303.8 | 254,300 | 405,400 |      |       |         |         | 90  |
| 95  | 61.6 | 298.8 | 247,300 | 387,400 | 64.2 | 301.3 | 237,200 | 379,500 | 68.0 | 303.9 | 222,200 | 367,800 | 95  |
| 100 | 59.3 | 295.8 | 231,500 | 363,900 | 62.0 | 298.5 | 222,000 | 356,400 | 65.8 | 301.6 | 207,800 | 345,300 | 100 |
| 105 | 56.9 | 292.5 | 217,300 | 342,800 | 59.7 | 295.5 | 208,200 | 335,800 | 63.6 | 299.0 | 194,800 | 325,300 | 105 |
| 110 | 54.5 | 288.8 | 204,400 | 323,800 | 57.3 | 292.3 | 195,800 | 317,200 | 61.3 | 296.2 | 183,000 | 307,200 | 110 |
| 115 | 52.0 | 284.9 | 192,600 | 306,700 | 54.8 | 288.7 | 184,400 | 300,300 | 58.9 | 293.1 | 172,200 | 290,800 | 115 |
| 120 | 49.3 | 280.5 | 181,800 | 291,000 | 52.3 | 284.7 | 174,100 | 284,900 | 56.6 | 289.8 | 162,400 | 275,900 | 120 |
| 125 | 46.6 | 275.7 | 171,900 | 276,700 | 49.7 | 280.4 | 164,500 | 270,900 | 54.1 | 286.1 | 153,400 | 262,300 | 125 |
| 130 | 43.7 | 270.4 | 162,800 | 263,600 | 47.0 | 275.7 | 155,700 | 258,000 | 51.5 | 282.0 | 145,100 | 249,700 | 130 |
| 135 | 40.6 | 264.5 | 154,300 | 251,400 | 44.1 | 270.5 | 147,500 | 246,100 | 48.9 | 277.6 | 137,300 | 238,200 | 135 |
| 140 | 37.3 | 257.9 | 146,500 | 240,200 | 41.1 | 264.7 | 140,000 | 235,200 | 46.1 | 272.7 | 130,200 | 227,500 | 140 |
| 145 | 33.8 | 250.5 | 139,100 | 229,800 | 37.8 | 258.2 | 132,900 | 225,000 | 43.2 | 267.4 | 123,500 | 217,700 | 145 |
| 150 | 29.8 | 241.8 | 132,200 | 220,100 | 34.3 | 250.9 | 126,200 | 215,500 | 40.1 | 261.4 | 117,300 | 208,400 | 150 |
| 155 | 25.2 | 231.5 | 125,600 | 211,100 | 30.4 | 242.4 | 120,000 | 206,600 | 36.8 | 254.7 | 111,400 | 199,900 | 155 |
| 160 | 19.6 | 218.2 | 119,300 | 202,600 | 25.9 | 232.3 | 114,000 | 198,300 | 33.2 | 247.0 | 105,800 | 191,800 | 160 |
| 165 | 11.2 | 197.6 | 113,100 | 194,400 | 20.5 | 219.6 | 108,300 | 190,400 | 29.1 | 238.1 | 100,600 | 184,200 | 165 |
| 170 |      |       |         |         | 12.8 | 200.8 | 102,700 | 182,900 | 24.4 | 227.4 | 95,600  | 177,100 | 170 |
| 175 |      |       |         |         |      |       |         |         | 18.6 | 213.5 | 90,700  | 170,300 | 175 |
| 180 |      |       |         |         |      |       |         |         | 9.0  | 190.0 | 85,700  | 163,800 | 180 |
| 185 |      |       |         |         |      |       |         |         |      |       |         |         | 185 |
| 190 |      |       |         |         |      |       |         |         |      |       |         |         | 190 |
| 195 |      |       |         |         |      |       |         |         |      |       |         |         | 195 |
| 200 |      |       |         |         |      |       |         |         |      |       |         |         | 200 |
| 205 |      |       |         |         |      |       |         |         |      |       |         |         | 205 |
| 210 |      |       |         |         |      |       |         |         |      |       |         |         | 210 |
| 215 |      |       |         |         |      |       |         |         |      |       |         |         | 215 |
| 220 |      |       |         |         |      |       |         |         |      |       |         |         | 220 |

# MLC650 VPC-MAX S-1

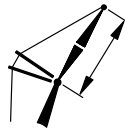
ASME B30.5



440,900 lb



164.0 ft

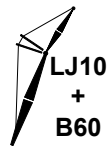


144.4 ft

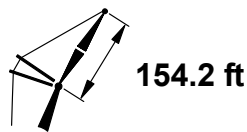
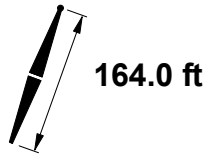
|     | 75°  |       |         |         | 70°  |       |        |         | 65°  |       |        |         |     |
|-----|------|-------|---------|---------|------|-------|--------|---------|------|-------|--------|---------|-----|
|     |      |       |         |         |      |       |        |         |      |       |        |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb     | lb      | °    | ft    | lb     | lb      | ft  |
| 65  |      |       |         |         |      |       |        |         |      |       |        |         | 65  |
| 70  |      |       |         |         |      |       |        |         |      |       |        |         | 70  |
| 75  |      |       |         |         |      |       |        |         |      |       |        |         | 75  |
| 80  |      |       |         |         |      |       |        |         |      |       |        |         | 80  |
| 85  |      |       |         |         |      |       |        |         |      |       |        |         | 85  |
| 90  |      |       |         |         |      |       |        |         |      |       |        |         | 90  |
| 95  |      |       |         |         |      |       |        |         |      |       |        |         | 95  |
| 100 |      |       |         |         |      |       |        |         |      |       |        |         | 100 |
| 105 |      |       |         |         |      |       |        |         |      |       |        |         | 105 |
| 110 |      |       |         |         |      |       |        |         |      |       |        |         | 110 |
| 115 |      |       |         |         |      |       |        |         |      |       |        |         | 115 |
| 120 | 63.1 | 295.1 | 143,200 | 261,000 |      |       |        |         |      |       |        |         | 120 |
| 125 | 60.8 | 292.2 | 135,000 | 248,000 |      |       |        |         |      |       |        |         | 125 |
| 130 | 58.5 | 289.1 | 127,400 | 236,100 |      |       |        |         |      |       |        |         | 130 |
| 135 | 56.0 | 285.6 | 120,500 | 225,200 |      |       |        |         |      |       |        |         | 135 |
| 140 | 53.6 | 281.9 | 114,000 | 215,000 |      |       |        |         |      |       |        |         | 140 |
| 145 | 51.0 | 277.8 | 107,900 | 205,600 | 57.8 | 283.6 | 92,600 | 193,800 |      |       |        |         | 145 |
| 150 | 48.3 | 273.2 | 102,300 | 196,900 | 55.4 | 280.1 | 87,500 | 185,500 |      |       |        |         | 150 |
| 155 | 45.5 | 268.3 | 97,000  | 188,700 | 52.9 | 276.2 | 82,800 | 177,800 |      |       |        |         | 155 |
| 160 | 42.6 | 262.8 | 92,000  | 181,100 | 50.3 | 272.0 | 78,300 | 170,500 |      |       |        |         | 160 |
| 165 | 39.4 | 256.7 | 87,300  | 173,900 | 47.6 | 267.3 | 74,100 | 163,700 | 54.5 | 272.9 | 61,100 | 153,800 | 165 |
| 170 | 36.1 | 249.8 | 82,900  | 167,200 | 44.7 | 262.2 | 70,100 | 157,300 | 51.9 | 268.9 | 57,600 | 147,800 | 170 |
| 175 | 32.4 | 241.9 | 78,600  | 160,800 | 41.7 | 256.6 | 66,400 | 151,300 | 49.3 | 264.6 | 54,300 | 142,100 | 175 |
| 180 | 28.2 | 232.7 | 74,600  | 154,800 | 38.5 | 250.2 | 62,800 | 145,700 | 46.5 | 259.8 | 51,100 | 136,700 | 180 |
| 185 | 23.3 | 221.5 | 70,700  | 149,100 | 35.1 | 243.1 | 59,400 | 140,300 | 43.6 | 254.5 | 48,100 | 131,600 | 185 |
| 190 | 17.1 | 206.5 | 66,800  | 143,600 | 31.3 | 234.9 | 56,100 | 135,200 | 40.6 | 248.6 | 45,200 | 126,800 | 190 |
| 195 | 4.1  | 174.3 | 62,400  | 138,000 | 26.9 | 225.3 | 52,900 | 130,300 | 37.3 | 242.0 | 42,400 | 122,200 | 195 |
| 200 |      |       |         |         | 21.8 | 213.3 | 49,800 | 125,600 | 33.7 | 234.5 | 39,800 | 117,800 | 200 |
| 205 |      |       |         |         | 14.8 | 196.4 | 46,700 | 121,100 | 29.7 | 225.8 | 37,200 | 113,700 | 205 |
| 210 |      |       |         |         |      |       |        |         | 25.2 | 215.4 | 34,700 | 109,700 | 210 |
| 215 |      |       |         |         |      |       |        |         | 19.5 | 202.1 | 32,200 | 105,800 | 215 |
| 220 |      |       |         |         |      |       |        |         | 11.0 | 181.3 | 29,500 | 101,900 | 220 |

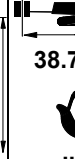
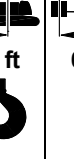
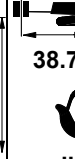
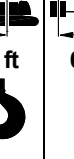
# MLC650 VPC-MAX S-1

ASME B30.5



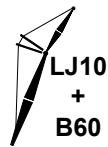
440,900 lb



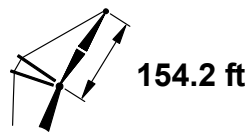
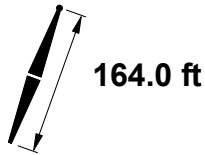
|     | 85°                                                                              |                                                                                   |                                                                                   |                                                                                   | 83°                                                                               |                                                                                   |                                                                                   |                                                                                   | 80°                                                                               |                                                                                   |                                                                                   |                                                                                    |                                                                                     |
|-----|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|     |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ft  | °                                                                                | ft                                                                                | lb                                                                                | lb                                                                                | °                                                                                 | ft                                                                                | lb                                                                                | lb                                                                                | °                                                                                 | ft                                                                                | lb                                                                                | lb                                                                                 | ft                                                                                  |
| 70  | 73.7                                                                             | 320.7                                                                             | 388,800                                                                           | 491,700                                                                           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 70                                                                                  |
| 75  | 71.8                                                                             | 319.0                                                                             | 357,300                                                                           | 491,700                                                                           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 75                                                                                  |
| 80  | 69.8                                                                             | 317.1                                                                             | 329,900                                                                           | 475,200                                                                           | 72.0                                                                              | 318.5                                                                             | 317,500                                                                           | 465,500                                                                           |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 80                                                                                  |
| 85  | 67.8                                                                             | 315.0                                                                             | 305,900                                                                           | 441,200                                                                           | 70.1                                                                              | 316.6                                                                             | 294,300                                                                           | 432,200                                                                           |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 85                                                                                  |
| 90  | 65.7                                                                             | 312.6                                                                             | 284,700                                                                           | 411,500                                                                           | 68.0                                                                              | 314.6                                                                             | 273,800                                                                           | 402,900                                                                           |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 90                                                                                  |
| 95  | 63.6                                                                             | 310.1                                                                             | 265,900                                                                           | 385,100                                                                           | 66.0                                                                              | 312.3                                                                             | 255,600                                                                           | 377,100                                                                           | 69.5                                                                              | 314.6                                                                             | 240,300                                                                           | 365,200                                                                            | 95                                                                                  |
| 100 | 61.5                                                                             | 307.3                                                                             | 249,000                                                                           | 361,700                                                                           | 63.9                                                                              | 309.8                                                                             | 239,300                                                                           | 354,100                                                                           | 67.4                                                                              | 312.5                                                                             | 224,800                                                                           | 342,900                                                                            | 100                                                                                 |
| 105 | 59.3                                                                             | 304.3                                                                             | 233,800                                                                           | 340,700                                                                           | 61.8                                                                              | 307.0                                                                             | 224,600                                                                           | 333,500                                                                           | 65.4                                                                              | 310.1                                                                             | 210,800                                                                           | 322,900                                                                            | 105                                                                                 |
| 110 | 57.1                                                                             | 301.0                                                                             | 220,000                                                                           | 321,800                                                                           | 59.6                                                                              | 304.0                                                                             | 211,300                                                                           | 315,000                                                                           | 63.3                                                                              | 307.5                                                                             | 198,200                                                                           | 304,900                                                                            | 110                                                                                 |
| 115 | 54.8                                                                             | 297.4                                                                             | 207,500                                                                           | 304,700                                                                           | 57.4                                                                              | 300.8                                                                             | 199,100                                                                           | 298,200                                                                           | 61.2                                                                              | 304.7                                                                             | 186,700                                                                           | 288,500                                                                            | 115                                                                                 |
| 120 | 52.5                                                                             | 293.5                                                                             | 196,000                                                                           | 289,100                                                                           | 55.1                                                                              | 297.2                                                                             | 188,100                                                                           | 282,900                                                                           | 59.0                                                                              | 301.6                                                                             | 176,100                                                                           | 273,700                                                                            | 120                                                                                 |
| 125 | 50.0                                                                             | 289.2                                                                             | 185,500                                                                           | 274,800                                                                           | 52.8                                                                              | 293.3                                                                             | 177,900                                                                           | 268,900                                                                           | 56.7                                                                              | 298.3                                                                             | 166,500                                                                           | 260,100                                                                            | 125                                                                                 |
| 130 | 47.5                                                                             | 284.6                                                                             | 175,800                                                                           | 261,700                                                                           | 50.4                                                                              | 289.1                                                                             | 168,500                                                                           | 256,000                                                                           | 54.5                                                                              | 294.6                                                                             | 157,600                                                                           | 247,600                                                                            | 130                                                                                 |
| 135 | 44.8                                                                             | 279.5                                                                             | 166,800                                                                           | 249,600                                                                           | 47.9                                                                              | 284.6                                                                             | 159,800                                                                           | 244,200                                                                           | 52.1                                                                              | 290.7                                                                             | 149,300                                                                           | 236,100                                                                            | 135                                                                                 |
| 140 | 42.1                                                                             | 273.9                                                                             | 158,400                                                                           | 238,500                                                                           | 45.2                                                                              | 279.5                                                                             | 151,700                                                                           | 233,300                                                                           | 49.6                                                                              | 286.4                                                                             | 141,700                                                                           | 225,500                                                                            | 140                                                                                 |
| 145 | 39.1                                                                             | 267.7                                                                             | 150,600                                                                           | 228,100                                                                           | 42.5                                                                              | 274.0                                                                             | 144,200                                                                           | 223,100                                                                           | 47.1                                                                              | 281.7                                                                             | 134,600                                                                           | 215,700                                                                            | 145                                                                                 |
| 150 | 35.9                                                                             | 260.8                                                                             | 143,300                                                                           | 218,500                                                                           | 39.5                                                                              | 267.9                                                                             | 137,200                                                                           | 213,700                                                                           | 44.4                                                                              | 276.5                                                                             | 127,900                                                                           | 206,500                                                                            | 150                                                                                 |
| 155 | 32.5                                                                             | 253.0                                                                             | 136,500                                                                           | 209,500                                                                           | 36.4                                                                              | 261.1                                                                             | 130,600                                                                           | 204,900                                                                           | 41.6                                                                              | 270.8                                                                             | 121,700                                                                           | 198,000                                                                            | 155                                                                                 |
| 160 | 28.6                                                                             | 243.9                                                                             | 130,000                                                                           | 201,100                                                                           | 33.0                                                                              | 253.4                                                                             | 124,300                                                                           | 196,600                                                                           | 38.6                                                                              | 264.5                                                                             | 115,800                                                                           | 190,000                                                                            | 160                                                                                 |
| 165 | 24.2                                                                             | 233.1                                                                             | 123,800                                                                           | 193,100                                                                           | 29.2                                                                              | 244.6                                                                             | 118,400                                                                           | 188,900                                                                           | 35.4                                                                              | 257.5                                                                             | 110,200                                                                           | 182,500                                                                            | 165                                                                                 |
| 170 | 18.7                                                                             | 219.2                                                                             | 117,900                                                                           | 185,600                                                                           | 24.9                                                                              | 234.0                                                                             | 112,800                                                                           | 181,600                                                                           | 31.9                                                                              | 249.5                                                                             | 105,000                                                                           | 175,400                                                                            | 170                                                                                 |
| 175 | 10.4                                                                             | 197.4                                                                             | 112,000                                                                           | 178,400                                                                           | 19.6                                                                              | 220.7                                                                             | 107,500                                                                           | 174,600                                                                           | 28.0                                                                              | 240.2                                                                             | 100,000                                                                           | 168,700                                                                            | 175                                                                                 |
| 180 |                                                                                  |                                                                                   |                                                                                   |                                                                                   | 12.0                                                                              | 200.9                                                                             | 102,100                                                                           | 168,000                                                                           | 23.4                                                                              | 229.0                                                                             | 95,200                                                                            | 162,400                                                                            | 180                                                                                 |
| 185 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 17.7                                                                              | 214.4                                                                             | 90,500                                                                            | 156,400                                                                            | 185                                                                                 |
| 190 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 8.2                                                                               | 189.3                                                                             | 85,700                                                                            | 150,500                                                                            | 190                                                                                 |
| 195 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 195                                                                                 |
| 200 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 200                                                                                 |
| 205 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 205                                                                                 |
| 210 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 210                                                                                 |
| 215 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 215                                                                                 |
| 220 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 220                                                                                 |
| 225 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 225                                                                                 |
| 230 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 230                                                                                 |

# MLC650 VPC-MAX S-1

ASME B30.5



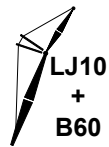
440,900 lb



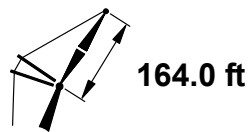
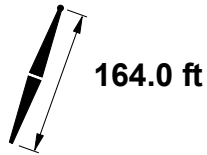
|     | 75°  |       |         |         | 70°  |       |        |         | 65°  |       |        |         |     |
|-----|------|-------|---------|---------|------|-------|--------|---------|------|-------|--------|---------|-----|
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb     | lb      | °    | ft    | lb     | lb      | ft  |
| 70  |      |       |         |         |      |       |        |         |      |       |        |         | 70  |
| 75  |      |       |         |         |      |       |        |         |      |       |        |         | 75  |
| 80  |      |       |         |         |      |       |        |         |      |       |        |         | 80  |
| 85  |      |       |         |         |      |       |        |         |      |       |        |         | 85  |
| 90  |      |       |         |         |      |       |        |         |      |       |        |         | 90  |
| 95  |      |       |         |         |      |       |        |         |      |       |        |         | 95  |
| 100 |      |       |         |         |      |       |        |         |      |       |        |         | 100 |
| 105 |      |       |         |         |      |       |        |         |      |       |        |         | 105 |
| 110 |      |       |         |         |      |       |        |         |      |       |        |         | 110 |
| 115 |      |       |         |         |      |       |        |         |      |       |        |         | 115 |
| 120 | 65.0 | 306.2 | 156,500 | 258,600 |      |       |        |         |      |       |        |         | 120 |
| 125 | 62.9 | 303.6 | 147,700 | 245,600 |      |       |        |         |      |       |        |         | 125 |
| 130 | 60.7 | 300.7 | 139,600 | 233,800 |      |       |        |         |      |       |        |         | 130 |
| 135 | 58.5 | 297.6 | 132,100 | 222,900 |      |       |        |         |      |       |        |         | 135 |
| 140 | 56.3 | 294.2 | 125,100 | 212,800 |      |       |        |         |      |       |        |         | 140 |
| 145 | 54.0 | 290.5 | 118,600 | 203,400 |      |       |        |         |      |       |        |         | 145 |
| 150 | 51.6 | 286.4 | 112,500 | 194,700 | 57.9 | 292.1 | 97,400 | 183,100 |      |       |        |         | 150 |
| 155 | 49.1 | 282.0 | 106,900 | 186,600 | 55.6 | 288.6 | 92,300 | 175,400 |      |       |        |         | 155 |
| 160 | 46.5 | 277.2 | 101,500 | 179,000 | 53.3 | 284.8 | 87,500 | 168,200 |      |       |        |         | 160 |
| 165 | 43.8 | 272.0 | 96,500  | 171,900 | 50.9 | 280.7 | 82,900 | 161,500 |      |       |        |         | 165 |
| 170 | 41.0 | 266.2 | 91,800  | 165,200 | 48.4 | 276.2 | 78,700 | 155,100 | 54.8 | 281.5 | 65,800 | 145,400 | 170 |
| 175 | 38.0 | 259.7 | 87,300  | 158,900 | 45.8 | 271.2 | 74,600 | 149,200 | 52.4 | 277.6 | 62,200 | 139,700 | 175 |
| 180 | 34.7 | 252.5 | 83,000  | 152,900 | 43.1 | 265.8 | 70,800 | 143,500 | 50.0 | 273.3 | 58,800 | 134,400 | 180 |
| 185 | 31.1 | 244.3 | 79,000  | 147,300 | 40.2 | 259.9 | 67,200 | 138,200 | 47.5 | 268.6 | 55,500 | 129,300 | 185 |
| 190 | 27.1 | 234.6 | 75,100  | 141,900 | 37.1 | 253.2 | 63,700 | 133,200 | 44.8 | 263.6 | 52,400 | 124,600 | 190 |
| 195 | 22.3 | 222.9 | 71,300  | 136,800 | 33.7 | 245.7 | 60,400 | 128,400 | 42.0 | 258.0 | 49,500 | 120,000 | 195 |
| 200 | 16.2 | 207.2 | 67,500  | 131,900 | 30.1 | 237.2 | 57,200 | 123,800 | 39.1 | 251.8 | 46,600 | 115,700 | 200 |
| 205 |      |       |         |         | 25.9 | 227.1 | 54,100 | 119,400 | 35.9 | 244.8 | 43,900 | 111,600 | 205 |
| 210 |      |       |         |         | 20.8 | 214.5 | 51,000 | 115,200 | 32.4 | 237.0 | 41,300 | 107,700 | 210 |
| 215 |      |       |         |         | 14.0 | 196.8 | 47,900 | 111,100 | 28.6 | 227.9 | 38,700 | 103,900 | 215 |
| 220 |      |       |         |         |      |       |        |         | 24.1 | 217.0 | 36,300 | 100,300 | 220 |
| 225 |      |       |         |         |      |       |        |         | 18.6 | 203.1 | 33,800 | 96,800  | 225 |
| 230 |      |       |         |         |      |       |        |         | 10.2 | 181.1 | 31,100 | 93,300  | 230 |

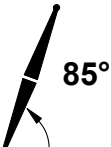
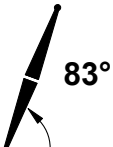
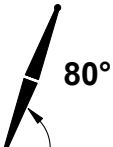
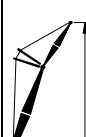
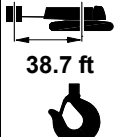
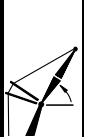
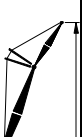
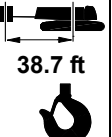
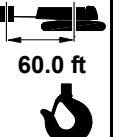
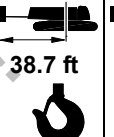
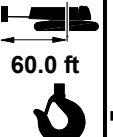
# MLC650 VPC-MAX S-1

ASME B30.5



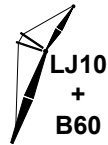
440,900 lb



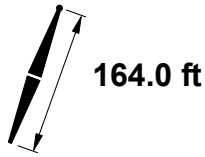
|     |  85° |                                                                                   |                                                                                   |                                                                                   |                                                                                   |  83° |                                                                                   |                                                                                   |                                                                                   |                                                                                    |  80° |                                                                                     |                                                                                     |                                                                                     |  |  |
|-----|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--|--|
|     |       |  |  |  |  |      |  |  |  |  |      |  |  |  |  |  |
|     | ft                                                                                    | °                                                                                 | ft                                                                                | lb                                                                                | lb                                                                                | °                                                                                     | ft                                                                                | lb                                                                                | lb                                                                                | °                                                                                  | ft                                                                                      | lb                                                                                  | lb                                                                                  | ft                                                                                  |  |  |
| 70  | 70                                                                                    | 74.7                                                                              | 331.0                                                                             | 388,200                                                                           | 449,600                                                                           |                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                         |                                                                                     |                                                                                     | 70                                                                                  |  |  |
| 75  | 75                                                                                    | 72.9                                                                              | 329.4                                                                             | 356,700                                                                           | 449,600                                                                           |                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                         |                                                                                     |                                                                                     | 75                                                                                  |  |  |
| 80  | 80                                                                                    | 71.1                                                                              | 327.6                                                                             | 329,300                                                                           | 449,400                                                                           |                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                         |                                                                                     |                                                                                     | 80                                                                                  |  |  |
| 85  | 85                                                                                    | 69.2                                                                              | 325.7                                                                             | 305,400                                                                           | 440,100                                                                           | 71.3                                                                                  | 327.2                                                                             | 293,600                                                                           | 431,000                                                                           |                                                                                    |                                                                                         |                                                                                     |                                                                                     | 85                                                                                  |  |  |
| 90  | 90                                                                                    | 67.3                                                                              | 323.5                                                                             | 284,200                                                                           | 410,400                                                                           | 69.4                                                                                  | 325.2                                                                             | 273,200                                                                           | 401,800                                                                           |                                                                                    |                                                                                         |                                                                                     |                                                                                     | 90                                                                                  |  |  |
| 95  | 95                                                                                    | 65.3                                                                              | 321.1                                                                             | 265,400                                                                           | 384,200                                                                           | 67.5                                                                                  | 323.1                                                                             | 255,000                                                                           | 376,100                                                                           |                                                                                    |                                                                                         |                                                                                     |                                                                                     | 95                                                                                  |  |  |
| 100 | 100                                                                                   | 63.4                                                                              | 318.6                                                                             | 248,500                                                                           | 360,800                                                                           | 65.6                                                                                  | 320.8                                                                             | 238,700                                                                           | 353,200                                                                           | 68.9                                                                               | 323.2                                                                                   | 224,000                                                                             | 341,800                                                                             | 100                                                                                 |  |  |
| 105 | 105                                                                                   | 61.4                                                                              | 315.8                                                                             | 233,400                                                                           | 339,900                                                                           | 63.7                                                                                  | 318.2                                                                             | 224,000                                                                           | 332,700                                                                           | 67.0                                                                               | 321.0                                                                                   | 210,100                                                                             | 321,900                                                                             | 105                                                                                 |  |  |
| 110 | 110                                                                                   | 59.3                                                                              | 312.8                                                                             | 219,600                                                                           | 321,000                                                                           | 61.7                                                                                  | 315.5                                                                             | 210,700                                                                           | 314,200                                                                           | 65.0                                                                               | 318.6                                                                                   | 197,500                                                                             | 303,900                                                                             | 110                                                                                 |  |  |
| 115 | 115                                                                                   | 57.3                                                                              | 309.5                                                                             | 207,100                                                                           | 303,900                                                                           | 59.6                                                                                  | 312.5                                                                             | 198,600                                                                           | 297,400                                                                           | 63.1                                                                               | 316.0                                                                                   | 186,000                                                                             | 287,700                                                                             | 115                                                                                 |  |  |
| 120 | 120                                                                                   | 55.1                                                                              | 305.9                                                                             | 195,600                                                                           | 288,400                                                                           | 57.6                                                                                  | 309.2                                                                             | 187,600                                                                           | 282,100                                                                           | 61.1                                                                               | 313.2                                                                                   | 175,500                                                                             | 272,900                                                                             | 120                                                                                 |  |  |
| 125 | 125                                                                                   | 52.9                                                                              | 302.1                                                                             | 185,100                                                                           | 274,100                                                                           | 55.4                                                                                  | 305.7                                                                             | 177,400                                                                           | 268,200                                                                           | 59.0                                                                               | 310.1                                                                                   | 165,900                                                                             | 259,300                                                                             | 125                                                                                 |  |  |
| 130 | 130                                                                                   | 50.6                                                                              | 297.9                                                                             | 175,400                                                                           | 261,100                                                                           | 53.2                                                                                  | 301.9                                                                             | 168,000                                                                           | 255,400                                                                           | 56.9                                                                               | 306.8                                                                                   | 157,000                                                                             | 246,900                                                                             | 130                                                                                 |  |  |
| 135 | 135                                                                                   | 48.3                                                                              | 293.4                                                                             | 166,500                                                                           | 249,100                                                                           | 51.0                                                                                  | 297.8                                                                             | 159,400                                                                           | 243,600                                                                           | 54.8                                                                               | 303.2                                                                                   | 148,800                                                                             | 235,400                                                                             | 135                                                                                 |  |  |
| 140 | 140                                                                                   | 45.8                                                                              | 288.5                                                                             | 158,100                                                                           | 237,900                                                                           | 48.6                                                                                  | 293.4                                                                             | 151,300                                                                           | 232,700                                                                           | 52.6                                                                               | 299.3                                                                                   | 141,200                                                                             | 224,900                                                                             | 140                                                                                 |  |  |
| 145 | 145                                                                                   | 43.3                                                                              | 283.1                                                                             | 150,400                                                                           | 227,600                                                                           | 46.2                                                                                  | 288.5                                                                             | 143,900                                                                           | 222,600                                                                           | 50.3                                                                               | 295.1                                                                                   | 134,100                                                                             | 215,100                                                                             | 145                                                                                 |  |  |
| 150 | 150                                                                                   | 40.6                                                                              | 277.3                                                                             | 143,100                                                                           | 218,000                                                                           | 43.7                                                                                  | 283.2                                                                             | 136,900                                                                           | 213,200                                                                           | 47.9                                                                               | 290.5                                                                                   | 127,400                                                                             | 205,900                                                                             | 150                                                                                 |  |  |
| 155 | 155                                                                                   | 37.7                                                                              | 270.8                                                                             | 136,400                                                                           | 209,100                                                                           | 41.0                                                                                  | 277.4                                                                             | 130,300                                                                           | 204,400                                                                           | 45.4                                                                               | 285.5                                                                                   | 121,200                                                                             | 197,400                                                                             | 155                                                                                 |  |  |
| 160 | 160                                                                                   | 34.7                                                                              | 263.5                                                                             | 130,000                                                                           | 200,700                                                                           | 38.1                                                                                  | 271.0                                                                             | 124,200                                                                           | 196,200                                                                           | 42.9                                                                               | 280.1                                                                                   | 115,400                                                                             | 189,500                                                                             | 160                                                                                 |  |  |
| 165 | 165                                                                                   | 31.3                                                                              | 255.4                                                                             | 123,900                                                                           | 192,900                                                                           | 35.1                                                                                  | 263.9                                                                             | 118,400                                                                           | 188,500                                                                           | 40.1                                                                               | 274.1                                                                                   | 109,900                                                                             | 182,000                                                                             | 165                                                                                 |  |  |
| 170 | 170                                                                                   | 27.6                                                                              | 245.9                                                                             | 118,200                                                                           | 185,500                                                                           | 31.8                                                                                  | 255.9                                                                             | 112,900                                                                           | 181,300                                                                           | 37.3                                                                               | 267.5                                                                                   | 104,800                                                                             | 175,000                                                                             | 170                                                                                 |  |  |
| 175 | 175                                                                                   | 23.3                                                                              | 234.6                                                                             | 112,800                                                                           | 178,500                                                                           | 28.1                                                                                  | 246.6                                                                             | 107,600                                                                           | 174,400                                                                           | 34.1                                                                               | 260.2                                                                                   | 99,900                                                                              | 168,400                                                                             | 175                                                                                 |  |  |
| 180 | 180                                                                                   | 17.9                                                                              | 220.1                                                                             | 107,500                                                                           | 171,800                                                                           | 23.9                                                                                  | 235.6                                                                             | 102,700                                                                           | 168,000                                                                           | 30.7                                                                               | 251.8                                                                                   | 95,200                                                                              | 162,100                                                                             | 180                                                                                 |  |  |
| 185 | 185                                                                                   | 9.7                                                                               | 197.0                                                                             | 102,200                                                                           | 164,100                                                                           | 18.8                                                                                  | 221.7                                                                             | 97,800                                                                            | 161,800                                                                           | 26.9                                                                               | 242.1                                                                                   | 90,700                                                                              | 156,200                                                                             | 185                                                                                 |  |  |
| 190 | 190                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 11.2                                                                                  | 200.8                                                                             | 93,000                                                                            | 155,900                                                                           | 22.5                                                                               | 230.4                                                                                   | 86,400                                                                              | 150,600                                                                             | 190                                                                                 |  |  |
| 195 | 195                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                       |                                                                                   |                                                                                   |                                                                                   | 16.9                                                                               | 215.1                                                                                   | 82,200                                                                              | 145,200                                                                             | 195                                                                                 |  |  |
| 200 | 200                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                       |                                                                                   |                                                                                   |                                                                                   | 7.3                                                                                | 188.3                                                                                   | 77,800                                                                              | 139,900                                                                             | 200                                                                                 |  |  |
| 205 | 205                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                         |                                                                                     |                                                                                     | 205                                                                                 |  |  |
| 210 | 210                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                         |                                                                                     |                                                                                     | 210                                                                                 |  |  |
| 215 | 215                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                         |                                                                                     |                                                                                     | 215                                                                                 |  |  |
| 220 | 220                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                         |                                                                                     |                                                                                     | 220                                                                                 |  |  |
| 225 | 225                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                         |                                                                                     |                                                                                     | 225                                                                                 |  |  |
| 230 | 230                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                         |                                                                                     |                                                                                     | 230                                                                                 |  |  |
| 240 | 240                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                         |                                                                                     |                                                                                     | 240                                                                                 |  |  |

# MLC650 VPC-MAX S-1

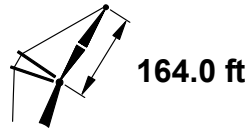
ASME B30.5



440,900 lb



164.0 ft

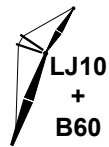


164.0 ft

|     | 75°  |       |         |         | 70°  |       |        |         | 65°  |       |        |         |     |
|-----|------|-------|---------|---------|------|-------|--------|---------|------|-------|--------|---------|-----|
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb     | lb      | °    | ft    | lb     | lb      | ft  |
| 70  |      |       |         |         |      |       |        |         |      |       |        |         | 70  |
| 75  |      |       |         |         |      |       |        |         |      |       |        |         | 75  |
| 80  |      |       |         |         |      |       |        |         |      |       |        |         | 80  |
| 85  |      |       |         |         |      |       |        |         |      |       |        |         | 85  |
| 90  |      |       |         |         |      |       |        |         |      |       |        |         | 90  |
| 95  |      |       |         |         |      |       |        |         |      |       |        |         | 95  |
| 100 |      |       |         |         |      |       |        |         |      |       |        |         | 100 |
| 105 |      |       |         |         |      |       |        |         |      |       |        |         | 105 |
| 110 |      |       |         |         |      |       |        |         |      |       |        |         | 110 |
| 115 |      |       |         |         |      |       |        |         |      |       |        |         | 115 |
| 120 |      |       |         |         |      |       |        |         |      |       |        |         | 120 |
| 125 | 64.6 | 314.7 | 146,900 | 244,700 |      |       |        |         |      |       |        |         | 125 |
| 130 | 62.7 | 312.0 | 138,800 | 232,900 |      |       |        |         |      |       |        |         | 130 |
| 135 | 60.6 | 309.2 | 131,300 | 222,000 |      |       |        |         |      |       |        |         | 135 |
| 140 | 58.6 | 306.1 | 124,300 | 212,000 |      |       |        |         |      |       |        |         | 140 |
| 145 | 56.5 | 302.7 | 117,900 | 202,700 |      |       |        |         |      |       |        |         | 145 |
| 150 | 54.3 | 299.0 | 111,900 | 194,000 |      |       |        |         |      |       |        |         | 150 |
| 155 | 52.1 | 295.1 | 106,200 | 185,900 | 58.0 | 300.6 | 91,500 | 174,600 |      |       |        |         | 155 |
| 160 | 49.8 | 290.8 | 100,900 | 178,300 | 55.9 | 297.1 | 86,700 | 167,500 |      |       |        |         | 160 |
| 165 | 47.4 | 286.1 | 96,000  | 171,300 | 53.7 | 293.4 | 82,200 | 160,700 |      |       |        |         | 165 |
| 170 | 44.9 | 281.1 | 91,300  | 164,600 | 51.5 | 289.3 | 77,900 | 154,400 |      |       |        |         | 170 |
| 175 | 42.3 | 275.5 | 86,800  | 158,300 | 49.1 | 284.9 | 73,900 | 148,500 |      |       |        |         | 175 |
| 180 | 39.6 | 269.4 | 82,600  | 152,400 | 46.7 | 280.2 | 70,200 | 142,900 | 52.9 | 286.2 | 57,900 | 133,600 | 180 |
| 185 | 36.6 | 262.7 | 78,600  | 146,800 | 44.2 | 275.0 | 66,600 | 137,600 | 50.6 | 282.0 | 54,700 | 128,600 | 185 |
| 190 | 33.5 | 255.1 | 74,800  | 141,500 | 41.6 | 269.3 | 63,100 | 132,600 | 48.3 | 277.5 | 51,700 | 123,900 | 190 |
| 195 | 30.0 | 246.5 | 71,100  | 136,500 | 38.8 | 263.0 | 59,900 | 127,800 | 45.8 | 272.6 | 48,700 | 119,400 | 195 |
| 200 | 26.1 | 236.5 | 67,600  | 131,700 | 35.8 | 256.1 | 56,700 | 123,300 | 43.2 | 267.2 | 46,000 | 115,100 | 200 |
| 205 | 21.4 | 224.2 | 64,200  | 127,100 | 32.5 | 248.3 | 53,700 | 119,000 | 40.5 | 261.3 | 43,300 | 111,000 | 205 |
| 210 | 15.4 | 207.8 | 60,800  | 122,700 | 28.9 | 239.3 | 50,800 | 114,900 | 37.7 | 254.8 | 40,700 | 107,200 | 210 |
| 215 |      |       |         |         | 24.9 | 228.8 | 48,000 | 110,900 | 34.6 | 247.6 | 38,300 | 103,500 | 215 |
| 220 |      |       |         |         | 20.0 | 215.6 | 45,300 | 107,100 | 31.3 | 239.4 | 35,900 | 99,900  | 220 |
| 225 |      |       |         |         | 13.2 | 197.1 | 42,400 | 103,400 | 27.5 | 229.9 | 33,600 | 96,500  | 225 |
| 230 |      |       |         |         |      |       |        |         | 23.2 | 218.6 | 31,300 | 93,200  | 230 |
| 240 |      |       |         |         |      |       |        |         | 9.5  | 180.7 | 26,500 | 86,700  | 240 |

# MLC650 VPC-MAX S-1

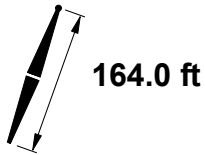
ASME B30.5



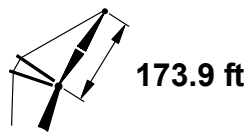
440,900 lb



360°



164.0 ft



173.9 ft

|     | 85°  |       |         |         | 83°  |       |         |         | 80°  |       |         |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|---------|---------|-----|
|     |      |       |         |         |      |       |         |         |      |       |         |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | ft  |
| 75  | 73.9 | 339.8 | 354,300 | 414,000 |      |       |         |         |      |       |         |         | 75  |
| 80  | 72.2 | 338.1 | 327,000 | 414,000 |      |       |         |         |      |       |         |         | 80  |
| 85  | 70.4 | 336.3 | 303,000 | 413,200 | 72.4 | 337.6 | 291,100 | 410,700 |      |       |         |         | 85  |
| 90  | 68.6 | 334.2 | 281,900 | 408,100 | 70.7 | 335.8 | 270,700 | 399,400 |      |       |         |         | 90  |
| 95  | 66.8 | 332.0 | 263,100 | 381,900 | 68.9 | 333.8 | 252,500 | 373,700 |      |       |         |         | 95  |
| 100 | 65.0 | 329.7 | 246,300 | 358,600 | 67.1 | 331.6 | 236,200 | 350,900 |      |       |         |         | 100 |
| 105 | 63.2 | 327.1 | 231,100 | 337,700 | 65.3 | 329.3 | 221,600 | 330,400 | 68.4 | 331.7 | 207,400 | 319,500 | 105 |
| 110 | 61.3 | 324.3 | 217,400 | 318,900 | 63.4 | 326.7 | 208,300 | 312,000 | 66.6 | 329.5 | 194,800 | 301,600 | 110 |
| 115 | 59.4 | 321.2 | 204,900 | 301,900 | 61.5 | 324.0 | 196,200 | 295,300 | 64.7 | 327.1 | 183,400 | 285,400 | 115 |
| 120 | 57.4 | 318.0 | 193,400 | 286,400 | 59.6 | 321.0 | 185,200 | 280,100 | 62.9 | 324.5 | 172,900 | 270,600 | 120 |
| 125 | 55.4 | 314.5 | 182,900 | 272,200 | 57.7 | 317.7 | 175,100 | 266,200 | 61.0 | 321.6 | 163,300 | 257,100 | 125 |
| 130 | 53.3 | 310.7 | 173,300 | 259,200 | 55.7 | 314.3 | 165,700 | 253,400 | 59.0 | 318.6 | 154,500 | 244,800 | 130 |
| 135 | 51.2 | 306.6 | 164,300 | 247,200 | 53.6 | 310.5 | 157,100 | 241,600 | 57.1 | 315.3 | 146,300 | 233,300 | 135 |
| 140 | 49.0 | 302.2 | 156,000 | 236,100 | 51.5 | 306.5 | 149,100 | 230,800 | 55.0 | 311.7 | 138,700 | 222,800 | 140 |
| 145 | 46.7 | 297.4 | 148,300 | 225,800 | 49.3 | 302.1 | 141,600 | 220,700 | 53.0 | 307.9 | 131,600 | 213,000 | 145 |
| 150 | 44.3 | 292.3 | 141,100 | 216,300 | 47.0 | 297.4 | 134,700 | 211,300 | 50.8 | 303.8 | 125,100 | 203,900 | 150 |
| 155 | 41.9 | 286.6 | 134,400 | 207,400 | 44.7 | 292.3 | 128,200 | 202,600 | 48.6 | 299.3 | 118,900 | 195,500 | 155 |
| 160 | 39.3 | 280.5 | 128,000 | 199,000 | 42.2 | 286.8 | 122,100 | 194,400 | 46.3 | 294.5 | 113,100 | 187,500 | 160 |
| 165 | 36.5 | 273.7 | 122,100 | 191,200 | 39.6 | 280.7 | 116,300 | 186,700 | 44.0 | 289.3 | 107,700 | 180,100 | 165 |
| 170 | 33.5 | 266.2 | 116,400 | 183,800 | 36.9 | 274.0 | 110,900 | 179,500 | 41.5 | 283.5 | 102,500 | 173,100 | 170 |
| 175 | 30.2 | 257.6 | 111,100 | 176,900 | 33.9 | 266.6 | 105,700 | 172,800 | 38.8 | 277.3 | 97,700  | 166,600 | 175 |
| 180 | 26.6 | 247.8 | 106,000 | 170,400 | 30.7 | 258.2 | 100,800 | 166,400 | 36.0 | 270.4 | 93,100  | 160,400 | 180 |
| 185 | 22.4 | 236.0 | 101,100 | 164,200 | 27.1 | 248.6 | 96,200  | 160,300 | 33.0 | 262.7 | 88,700  | 154,500 | 185 |
| 190 | 17.1 | 220.9 | 96,400  | 158,200 | 23.0 | 237.1 | 91,700  | 154,500 | 29.7 | 254.0 | 84,500  | 148,900 | 190 |
| 195 | 8.9  | 196.5 | 91,500  | 148,600 | 18.0 | 222.7 | 87,400  | 149,000 | 26.0 | 243.9 | 80,500  | 143,700 | 195 |
| 200 |      |       |         |         | 10.5 | 200.6 | 83,000  | 143,700 | 21.6 | 231.8 | 76,600  | 138,600 | 200 |
| 205 |      |       |         |         |      |       |         |         | 16.1 | 215.8 | 72,800  | 133,700 | 205 |
| 210 |      |       |         |         |      |       |         |         | 6.5  | 187.1 | 68,800  | 128,900 | 210 |
| 215 |      |       |         |         |      |       |         |         |      |       |         |         | 215 |
| 220 |      |       |         |         |      |       |         |         |      |       |         |         | 220 |
| 225 |      |       |         |         |      |       |         |         |      |       |         |         | 225 |
| 230 |      |       |         |         |      |       |         |         |      |       |         |         | 230 |
| 240 |      |       |         |         |      |       |         |         |      |       |         |         | 240 |
| 250 |      |       |         |         |      |       |         |         |      |       |         |         | 250 |

# MLC650 VPC-MAX S-1

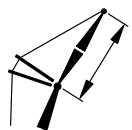
ASME B30.5



440,900 lb



164.0 ft

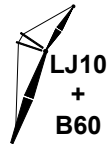


173.9 ft

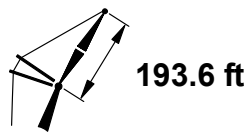
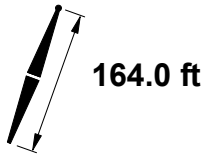
|     | 75°  |       |         |         | 70°  |       |        |         | 65°  |       |        |         |     |
|-----|------|-------|---------|---------|------|-------|--------|---------|------|-------|--------|---------|-----|
|     |      |       |         |         |      |       |        |         |      |       |        |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb     | lb      | °    | ft    | lb     | lb      | ft  |
| 75  |      |       |         |         |      |       |        |         |      |       |        |         | 75  |
| 80  |      |       |         |         |      |       |        |         |      |       |        |         | 80  |
| 85  |      |       |         |         |      |       |        |         |      |       |        |         | 85  |
| 90  |      |       |         |         |      |       |        |         |      |       |        |         | 90  |
| 95  |      |       |         |         |      |       |        |         |      |       |        |         | 95  |
| 100 |      |       |         |         |      |       |        |         |      |       |        |         | 100 |
| 105 |      |       |         |         |      |       |        |         |      |       |        |         | 105 |
| 110 |      |       |         |         |      |       |        |         |      |       |        |         | 110 |
| 115 |      |       |         |         |      |       |        |         |      |       |        |         | 115 |
| 120 |      |       |         |         |      |       |        |         |      |       |        |         | 120 |
| 125 |      |       |         |         |      |       |        |         |      |       |        |         | 125 |
| 130 | 64.3 | 323.2 | 135,900 | 230,600 |      |       |        |         |      |       |        |         | 130 |
| 135 | 62.5 | 320.5 | 128,500 | 219,700 |      |       |        |         |      |       |        |         | 135 |
| 140 | 60.6 | 317.6 | 121,600 | 209,700 |      |       |        |         |      |       |        |         | 140 |
| 145 | 58.6 | 314.5 | 115,100 | 200,400 |      |       |        |         |      |       |        |         | 145 |
| 150 | 56.7 | 311.2 | 109,200 | 191,800 |      |       |        |         |      |       |        |         | 150 |
| 155 | 54.6 | 307.6 | 103,600 | 183,700 |      |       |        |         |      |       |        |         | 155 |
| 160 | 52.5 | 303.7 | 98,300  | 176,200 | 58.1 | 309.0 | 83,800 | 165,100 |      |       |        |         | 160 |
| 165 | 50.4 | 299.5 | 93,400  | 169,200 | 56.1 | 305.6 | 79,300 | 158,500 |      |       |        |         | 165 |
| 170 | 48.2 | 295.0 | 88,700  | 162,500 | 54.0 | 301.9 | 75,100 | 152,200 |      |       |        |         | 170 |
| 175 | 45.9 | 290.1 | 84,300  | 156,300 | 51.9 | 298.0 | 71,100 | 146,300 |      |       |        |         | 175 |
| 180 | 43.4 | 284.7 | 80,200  | 150,400 | 49.8 | 293.7 | 67,400 | 140,700 |      |       |        |         | 180 |
| 185 | 40.9 | 278.9 | 76,200  | 144,900 | 47.5 | 289.1 | 63,800 | 135,500 | 53.3 | 294.8 | 51,800 | 126,300 | 185 |
| 190 | 38.3 | 272.5 | 72,400  | 139,600 | 45.2 | 284.0 | 60,500 | 130,500 | 51.2 | 290.7 | 48,700 | 121,600 | 190 |
| 195 | 35.4 | 265.5 | 68,900  | 134,600 | 42.8 | 278.6 | 57,200 | 125,800 | 49.0 | 286.3 | 45,900 | 117,100 | 195 |
| 200 | 32.3 | 257.6 | 65,400  | 129,900 | 40.2 | 272.6 | 54,200 | 121,300 | 46.7 | 281.5 | 43,100 | 112,900 | 200 |
| 205 | 29.0 | 248.7 | 62,100  | 125,400 | 37.5 | 266.1 | 51,200 | 117,000 | 44.3 | 276.3 | 40,500 | 108,900 | 205 |
| 210 | 25.1 | 238.2 | 58,900  | 121,000 | 34.6 | 258.8 | 48,400 | 112,900 | 41.8 | 270.7 | 38,000 | 105,000 | 210 |
| 215 | 20.6 | 225.5 | 55,800  | 116,900 | 31.4 | 250.7 | 45,700 | 109,100 | 39.2 | 264.5 | 35,600 | 101,300 | 215 |
| 220 | 14.7 | 208.3 | 52,700  | 112,800 | 27.9 | 241.4 | 43,100 | 105,300 | 36.4 | 257.7 | 33,300 | 97,800  | 220 |
| 225 |      |       |         |         | 24.0 | 230.4 | 40,500 | 101,700 | 33.4 | 250.2 | 31,000 | 94,500  | 225 |
| 230 |      |       |         |         | 19.2 | 216.7 | 38,000 | 98,300  | 30.2 | 241.6 | 28,900 | 91,300  | 230 |
| 240 |      |       |         |         |      |       |        |         | 22.3 | 220.0 | 24,700 | 85,100  | 240 |
| 250 |      |       |         |         |      |       |        |         | 8.8  | 180.1 | 20,200 | 79,200  | 250 |

# MLC650 VPC-MAX S-1

ASME B30.5



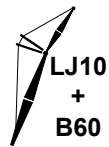
440,900 lb



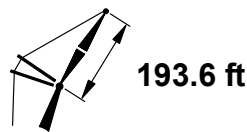
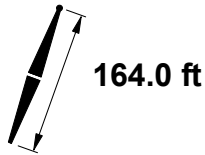
|     | 85°  |       |         |         | 83°  |       |         |         | 80°  |       |         |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|---------|---------|-----|
|     |      |       |         |         |      |       |         |         |      |       |         |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | ft  |
| 80  | 74.1 | 358.8 | 323,900 | 349,900 |      |       |         |         |      |       |         |         | 80  |
| 85  | 72.5 | 357.2 | 300,000 | 349,700 |      |       |         |         |      |       |         |         | 85  |
| 90  | 70.9 | 355.4 | 278,900 | 349,200 | 72.7 | 356.7 | 267,400 | 346,000 |      |       |         |         | 90  |
| 95  | 69.3 | 353.5 | 260,100 | 348,400 | 71.1 | 354.9 | 249,300 | 346,000 |      |       |         |         | 95  |
| 100 | 67.7 | 351.4 | 243,300 | 347,400 | 69.6 | 353.0 | 233,000 | 346,000 |      |       |         |         | 100 |
| 105 | 66.1 | 349.1 | 228,200 | 334,700 | 68.0 | 351.0 | 218,400 | 327,200 |      |       |         |         | 105 |
| 110 | 64.5 | 346.7 | 214,500 | 316,000 | 66.3 | 348.7 | 205,200 | 308,900 | 69.1 | 351.0 | 191,300 | 298,300 | 110 |
| 115 | 62.8 | 344.0 | 202,000 | 299,000 | 64.7 | 346.3 | 193,200 | 292,300 | 67.5 | 348.9 | 179,900 | 282,100 | 115 |
| 120 | 61.1 | 341.2 | 190,600 | 283,600 | 63.0 | 343.7 | 182,100 | 277,100 | 65.8 | 346.6 | 169,500 | 267,500 | 120 |
| 125 | 59.4 | 338.2 | 180,100 | 269,500 | 61.3 | 340.9 | 172,100 | 263,300 | 64.2 | 344.1 | 160,000 | 254,100 | 125 |
| 130 | 57.6 | 335.0 | 170,500 | 256,500 | 59.6 | 337.9 | 162,800 | 250,600 | 62.5 | 341.4 | 151,200 | 241,800 | 130 |
| 135 | 55.8 | 331.5 | 161,600 | 244,600 | 57.9 | 334.7 | 154,200 | 238,900 | 60.8 | 338.6 | 143,000 | 230,400 | 135 |
| 140 | 54.0 | 327.8 | 153,400 | 233,600 | 56.1 | 331.3 | 146,200 | 228,100 | 59.1 | 335.5 | 135,500 | 219,900 | 140 |
| 145 | 52.1 | 323.9 | 145,700 | 223,400 | 54.2 | 327.7 | 138,800 | 218,100 | 57.3 | 332.3 | 128,500 | 210,200 | 145 |
| 150 | 50.1 | 319.7 | 138,500 | 213,800 | 52.3 | 323.7 | 131,900 | 208,800 | 55.5 | 328.8 | 121,900 | 201,200 | 150 |
| 155 | 48.1 | 315.1 | 131,800 | 205,000 | 50.4 | 319.6 | 125,400 | 200,100 | 53.7 | 325.1 | 115,800 | 192,800 | 155 |
| 160 | 46.1 | 310.3 | 125,500 | 196,700 | 48.4 | 315.1 | 119,300 | 192,000 | 51.8 | 321.1 | 110,100 | 184,900 | 160 |
| 165 | 43.9 | 305.0 | 119,600 | 188,900 | 46.4 | 310.3 | 113,600 | 184,400 | 49.8 | 316.8 | 104,700 | 177,500 | 165 |
| 170 | 41.7 | 299.4 | 114,100 | 181,600 | 44.2 | 305.1 | 108,300 | 177,200 | 47.8 | 312.2 | 99,600  | 170,600 | 170 |
| 175 | 39.4 | 293.3 | 108,800 | 174,800 | 42.0 | 299.5 | 103,200 | 170,500 | 45.7 | 307.3 | 94,800  | 164,100 | 175 |
| 180 | 36.9 | 286.6 | 103,800 | 168,300 | 39.7 | 293.4 | 98,400  | 164,100 | 43.6 | 302.0 | 90,300  | 157,900 | 180 |
| 185 | 34.3 | 279.2 | 99,100  | 162,200 | 37.3 | 286.8 | 93,900  | 158,200 | 41.3 | 296.3 | 86,000  | 152,100 | 185 |
| 190 | 31.4 | 271.1 | 94,600  | 156,400 | 34.7 | 279.6 | 89,600  | 152,500 | 39.0 | 290.1 | 81,900  | 146,600 | 190 |
| 195 | 28.4 | 261.9 | 90,300  | 150,900 | 31.9 | 271.6 | 85,400  | 147,100 | 36.5 | 283.3 | 78,100  | 141,400 | 195 |
| 200 | 24.9 | 251.3 | 86,200  | 145,700 | 28.8 | 262.6 | 81,500  | 142,000 | 33.8 | 275.8 | 74,400  | 136,500 | 200 |
| 205 | 20.9 | 238.7 | 82,200  | 140,600 | 25.4 | 252.2 | 77,700  | 137,100 | 31.0 | 267.6 | 70,800  | 131,800 | 205 |
| 210 | 15.8 | 222.3 | 78,300  | 135,800 | 21.5 | 239.9 | 74,000  | 132,400 | 27.8 | 258.2 | 67,400  | 127,300 | 210 |
| 215 | 7.6  | 195.0 | 74,300  | 123,300 | 16.6 | 224.3 | 70,400  | 127,900 | 24.3 | 247.3 | 64,100  | 123,000 | 215 |
| 220 |      |       |         |         | 9.3  | 200.0 | 66,700  | 123,500 | 20.1 | 234.2 | 60,900  | 118,800 | 220 |
| 225 |      |       |         |         |      |       |         |         | 14.8 | 217.0 | 57,700  | 114,800 | 225 |
| 230 |      |       |         |         |      |       |         |         | 4.8  | 183.5 | 54,200  | 110,800 | 230 |
| 240 |      |       |         |         |      |       |         |         |      |       |         |         | 240 |
| 250 |      |       |         |         |      |       |         |         |      |       |         |         | 250 |
| 260 |      |       |         |         |      |       |         |         |      |       |         |         | 260 |
| 270 |      |       |         |         |      |       |         |         |      |       |         |         | 270 |

# MLC650 VPC-MAX S-1

ASME B30.5



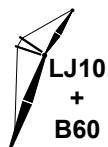
440,900 lb



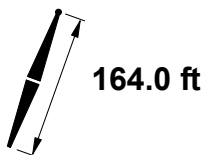
|     | 75°  |       |         |         | 70°  |       |        |         | 65°  |       |        |         |     |
|-----|------|-------|---------|---------|------|-------|--------|---------|------|-------|--------|---------|-----|
|     | ft   | °     | ft      | lb      | lb   | ft    | lb     | lb      | ft   | lb    | lb     | ft      |     |
| 80  |      |       |         |         |      |       |        |         |      |       |        |         | 80  |
| 85  |      |       |         |         |      |       |        |         |      |       |        |         | 85  |
| 90  |      |       |         |         |      |       |        |         |      |       |        |         | 90  |
| 95  |      |       |         |         |      |       |        |         |      |       |        |         | 95  |
| 100 |      |       |         |         |      |       |        |         |      |       |        |         | 100 |
| 105 |      |       |         |         |      |       |        |         |      |       |        |         | 105 |
| 110 |      |       |         |         |      |       |        |         |      |       |        |         | 110 |
| 115 |      |       |         |         |      |       |        |         |      |       |        |         | 115 |
| 120 |      |       |         |         |      |       |        |         |      |       |        |         | 120 |
| 125 |      |       |         |         |      |       |        |         |      |       |        |         | 125 |
| 130 |      |       |         |         |      |       |        |         |      |       |        |         | 130 |
| 135 |      |       |         |         |      |       |        |         |      |       |        |         | 135 |
| 140 | 63.8 | 340.2 | 117,900 | 206,500 |      |       |        |         |      |       |        |         | 140 |
| 145 | 62.2 | 337.5 | 111,500 | 197,300 |      |       |        |         |      |       |        |         | 145 |
| 150 | 60.5 | 334.6 | 105,600 | 188,700 |      |       |        |         |      |       |        |         | 150 |
| 155 | 58.7 | 331.5 | 100,000 | 180,700 |      |       |        |         |      |       |        |         | 155 |
| 160 | 56.9 | 328.2 | 94,800  | 173,300 |      |       |        |         |      |       |        |         | 160 |
| 165 | 55.1 | 324.7 | 89,900  | 166,300 | 60.0 | 329.2 | 75,400 | 155,300 |      |       |        |         | 165 |
| 170 | 53.3 | 320.9 | 85,300  | 159,700 | 58.2 | 326.0 | 71,300 | 149,100 |      |       |        |         | 170 |
| 175 | 51.4 | 316.8 | 81,000  | 153,500 | 56.4 | 322.7 | 67,400 | 143,200 |      |       |        |         | 175 |
| 180 | 49.4 | 312.5 | 76,900  | 147,700 | 54.6 | 319.1 | 63,700 | 137,700 |      |       |        |         | 180 |
| 185 | 47.4 | 307.8 | 73,000  | 142,200 | 52.8 | 315.2 | 60,200 | 132,500 |      |       |        |         | 185 |
| 190 | 45.3 | 302.9 | 69,300  | 137,000 | 50.8 | 311.1 | 56,900 | 127,600 |      |       |        |         | 190 |
| 195 | 43.1 | 297.5 | 65,800  | 132,100 | 48.9 | 306.7 | 53,800 | 122,900 | 53.9 | 311.9 | 42,000 | 114,000 | 195 |
| 200 | 40.9 | 291.7 | 62,500  | 127,400 | 46.8 | 301.9 | 50,800 | 118,500 | 52.1 | 308.0 | 39,300 | 109,900 | 200 |
| 205 | 38.5 | 285.3 | 59,300  | 123,000 | 44.7 | 296.8 | 47,900 | 114,300 | 50.1 | 303.7 | 36,800 | 105,900 | 205 |
| 210 | 36.0 | 278.4 | 56,200  | 118,700 | 42.5 | 291.3 | 45,200 | 110,300 | 48.1 | 299.2 | 34,300 | 102,100 | 210 |
| 215 | 33.3 | 270.8 | 53,300  | 114,700 | 40.2 | 285.4 | 42,500 | 106,500 | 46.1 | 294.3 | 32,000 | 98,500  | 215 |
| 220 | 30.3 | 262.3 | 50,500  | 110,800 | 37.8 | 278.9 | 40,000 | 102,800 | 43.9 | 289.1 | 29,700 | 95,000  | 220 |
| 225 | 27.1 | 252.7 | 47,700  | 107,100 | 35.2 | 271.8 | 37,600 | 99,300  | 41.7 | 283.4 | 27,600 | 91,700  | 225 |
| 230 | 23.5 | 241.4 | 45,100  | 103,500 | 32.5 | 264.0 | 35,300 | 96,000  | 39.3 | 277.3 | 25,500 | 88,600  | 230 |
| 240 | 13.4 | 209.0 | 39,800  | 96,700  | 26.2 | 245.2 | 30,800 | 89,600  | 34.2 | 263.3 | 21,600 | 82,600  | 240 |
| 250 |      |       |         |         | 17.8 | 218.6 | 26,500 | 83,700  | 28.3 | 245.9 |        | 77,100  | 250 |
| 260 |      |       |         |         |      |       |        |         | 20.8 | 222.6 |        | 72,000  | 260 |
| 270 |      |       |         |         |      |       |        |         | 7.4  | 178.5 |        | 66,900  | 270 |

# MLC650 VPC-MAX S-1

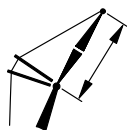
ASME B30.5



440,900 lb



164.0 ft

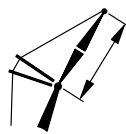


213.3 ft

|     | 85°  |       |         |         | 83°  |       |         |         | 80°  |       |         |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|---------|---------|-----|
|     |      |       |         |         |      |       |         |         |      |       |         |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | ft  |
| 85  | 74.2 | 377.9 | 297,000 | 297,600 |      |       |         |         |      |       |         |         | 85  |
| 90  | 72.8 | 376.3 | 275,900 | 297,400 |      |       |         |         |      |       |         |         | 90  |
| 95  | 71.3 | 374.5 | 257,200 | 297,000 | 73.0 | 375.8 | 246,000 | 294,000 |      |       |         |         | 95  |
| 100 | 69.9 | 372.7 | 240,400 | 296,400 | 71.5 | 374.1 | 229,800 | 294,000 |      |       |         |         | 100 |
| 105 | 68.5 | 370.6 | 225,200 | 295,500 | 70.1 | 372.2 | 215,300 | 294,000 |      |       |         |         | 105 |
| 110 | 67.0 | 368.5 | 211,600 | 294,400 | 68.7 | 370.2 | 202,000 | 294,000 |      |       |         |         | 110 |
| 115 | 65.5 | 366.1 | 199,100 | 293,200 | 67.2 | 368.1 | 190,000 | 289,200 | 69.7 | 370.2 | 176,500 | 278,900 | 115 |
| 120 | 64.0 | 363.6 | 187,700 | 280,800 | 65.7 | 365.8 | 179,100 | 274,200 | 68.2 | 368.1 | 166,100 | 264,300 | 120 |
| 125 | 62.5 | 361.0 | 177,300 | 266,700 | 64.2 | 363.3 | 169,000 | 260,400 | 66.8 | 365.9 | 156,600 | 251,000 | 125 |
| 130 | 60.9 | 358.2 | 167,700 | 253,900 | 62.7 | 360.7 | 159,700 | 247,800 | 65.3 | 363.6 | 147,800 | 238,800 | 130 |
| 135 | 59.4 | 355.2 | 158,800 | 242,000 | 61.2 | 357.9 | 151,100 | 236,200 | 63.8 | 361.1 | 139,700 | 227,500 | 135 |
| 140 | 57.8 | 352.0 | 150,600 | 231,000 | 59.6 | 354.9 | 143,200 | 225,400 | 62.2 | 358.4 | 132,200 | 217,100 | 140 |
| 145 | 56.2 | 348.6 | 142,900 | 220,800 | 58.0 | 351.7 | 135,800 | 215,400 | 60.7 | 355.5 | 125,200 | 207,400 | 145 |
| 150 | 54.5 | 344.9 | 135,800 | 211,400 | 56.4 | 348.3 | 128,900 | 206,200 | 59.1 | 352.5 | 118,700 | 198,400 | 150 |
| 155 | 52.8 | 341.1 | 129,100 | 202,500 | 54.7 | 344.7 | 122,500 | 197,500 | 57.5 | 349.3 | 112,600 | 190,000 | 155 |
| 160 | 51.1 | 337.0 | 122,800 | 194,300 | 53.0 | 340.9 | 116,500 | 189,400 | 55.9 | 345.8 | 106,900 | 182,200 | 160 |
| 165 | 49.3 | 332.7 | 117,000 | 186,600 | 51.3 | 336.9 | 110,800 | 181,900 | 54.2 | 342.2 | 101,600 | 174,900 | 165 |
| 170 | 47.5 | 328.0 | 111,400 | 179,300 | 49.5 | 332.6 | 105,500 | 174,800 | 52.5 | 338.3 | 96,600  | 168,000 | 170 |
| 175 | 45.6 | 323.1 | 106,200 | 172,500 | 47.7 | 328.0 | 100,500 | 168,100 | 50.8 | 334.2 | 91,800  | 161,500 | 175 |
| 180 | 43.6 | 317.8 | 101,300 | 166,000 | 45.8 | 323.1 | 95,700  | 161,800 | 49.0 | 329.8 | 87,300  | 155,400 | 180 |
| 185 | 41.6 | 312.1 | 96,600  | 160,000 | 43.9 | 317.8 | 91,200  | 155,800 | 47.2 | 325.1 | 83,100  | 149,600 | 185 |
| 190 | 39.5 | 306.0 | 92,200  | 154,200 | 41.9 | 312.2 | 86,900  | 150,200 | 45.3 | 320.1 | 79,100  | 144,200 | 190 |
| 195 | 37.2 | 299.4 | 88,000  | 148,800 | 39.8 | 306.2 | 82,900  | 144,900 | 43.3 | 314.8 | 75,200  | 139,000 | 195 |
| 200 | 34.9 | 292.2 | 84,000  | 143,600 | 37.6 | 299.7 | 79,000  | 139,800 | 41.3 | 309.0 | 71,600  | 134,100 | 200 |
| 205 | 32.4 | 284.4 | 80,200  | 138,700 | 35.2 | 292.6 | 75,300  | 135,000 | 39.1 | 302.9 | 68,100  | 129,500 | 205 |
| 210 | 29.7 | 275.7 | 76,500  | 134,000 | 32.7 | 284.8 | 71,800  | 130,400 | 36.9 | 296.2 | 64,800  | 125,000 | 210 |
| 215 | 26.7 | 265.9 | 73,000  | 129,500 | 30.1 | 276.2 | 68,400  | 126,000 | 34.5 | 288.9 | 61,600  | 120,800 | 215 |
| 220 | 23.4 | 254.6 | 69,500  | 125,200 | 27.2 | 266.6 | 65,200  | 121,800 | 32.0 | 280.9 | 58,500  | 116,700 | 220 |
| 225 | 19.5 | 241.0 | 66,200  | 121,100 | 23.9 | 255.6 | 62,000  | 117,800 | 29.2 | 272.0 | 55,600  | 112,900 | 225 |
| 230 | 14.6 | 223.5 | 62,900  | 117,100 | 20.1 | 242.4 | 58,900  | 113,900 | 26.2 | 262.0 | 52,800  | 109,200 | 230 |
| 240 |      |       |         |         | 8.1  | 198.8 | 52,700  | 106,500 | 18.8 | 236.4 | 47,300  | 102,100 | 240 |
| 250 |      |       |         |         |      |       |         |         | 2.3  | 175.7 | 41,400  | 95,200  | 250 |
| 260 |      |       |         |         |      |       |         |         |      |       |         |         | 260 |
| 270 |      |       |         |         |      |       |         |         |      |       |         |         | 270 |
| 280 |      |       |         |         |      |       |         |         |      |       |         |         | 280 |
| 290 |      |       |         |         |      |       |         |         |      |       |         |         | 290 |

# MLC650 VPC-MAX S-1

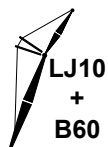
ASME B30.5



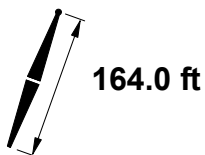
|     | 75°  |       |         |         | 70°  |       |        |         | 65°  |       |         |     |
|-----|------|-------|---------|---------|------|-------|--------|---------|------|-------|---------|-----|
|     |      |       |         |         |      |       |        |         |      |       |         |     |
|     | ft   | °     | ft      | lb      | lb   | °     | ft     | lb      | lb   | °     | ft      | lb  |
| 85  |      |       |         |         |      |       |        |         |      |       |         | 85  |
| 90  |      |       |         |         |      |       |        |         |      |       |         | 90  |
| 95  |      |       |         |         |      |       |        |         |      |       |         | 95  |
| 100 |      |       |         |         |      |       |        |         |      |       |         | 100 |
| 105 |      |       |         |         |      |       |        |         |      |       |         | 105 |
| 110 |      |       |         |         |      |       |        |         |      |       |         | 110 |
| 115 |      |       |         |         |      |       |        |         |      |       |         | 115 |
| 120 |      |       |         |         |      |       |        |         |      |       |         | 120 |
| 125 |      |       |         |         |      |       |        |         |      |       |         | 125 |
| 130 |      |       |         |         |      |       |        |         |      |       |         | 130 |
| 135 |      |       |         |         |      |       |        |         |      |       |         | 135 |
| 140 |      |       |         |         |      |       |        |         |      |       |         | 140 |
| 145 | 65.0 | 359.7 | 107,800 | 194,200 |      |       |        |         |      |       |         | 145 |
| 150 | 63.4 | 357.2 | 101,900 | 185,700 |      |       |        |         |      |       |         | 150 |
| 155 | 61.9 | 354.4 | 96,400  | 177,700 |      |       |        |         |      |       |         | 155 |
| 160 | 60.4 | 351.5 | 91,300  | 170,300 |      |       |        |         |      |       |         | 160 |
| 165 | 58.8 | 348.5 | 86,400  | 163,400 |      |       |        |         |      |       |         | 165 |
| 170 | 57.2 | 345.2 | 81,900  | 156,800 |      |       |        |         |      |       |         | 170 |
| 175 | 55.5 | 341.7 | 77,600  | 150,700 | 59.9 | 346.1 | 63,600 | 140,200 |      |       |         | 175 |
| 180 | 53.9 | 338.0 | 73,500  | 144,900 | 58.3 | 343.0 | 60,000 | 134,700 |      |       |         | 180 |
| 185 | 52.2 | 334.1 | 69,700  | 139,500 | 56.7 | 339.7 | 56,500 | 129,500 |      |       |         | 185 |
| 190 | 50.4 | 329.9 | 66,000  | 134,300 | 55.1 | 336.1 | 53,200 | 124,700 |      |       |         | 190 |
| 195 | 48.6 | 325.5 | 62,600  | 129,400 | 53.4 | 332.4 | 50,100 | 120,000 |      |       |         | 195 |
| 200 | 46.8 | 320.7 | 59,300  | 124,800 | 51.7 | 328.4 | 47,200 | 115,600 |      |       |         | 200 |
| 205 | 44.9 | 315.6 | 56,100  | 120,400 | 49.9 | 324.1 | 44,400 | 111,500 | 54.5 | 329.0 | 102,800 | 205 |
| 210 | 42.9 | 310.2 | 53,100  | 116,200 | 48.1 | 319.6 | 41,700 | 107,500 | 52.8 | 325.2 | 99,100  | 210 |
| 215 | 40.8 | 304.4 | 50,300  | 112,200 | 46.2 | 314.8 | 39,100 | 103,700 | 51.0 | 321.1 | 95,500  | 215 |
| 220 | 38.7 | 298.1 | 47,500  | 108,300 | 44.3 | 309.6 | 36,700 | 100,100 | 49.3 | 316.7 | 92,100  | 220 |
| 225 | 36.4 | 291.3 | 44,900  | 104,700 | 42.3 | 304.1 | 34,300 | 96,700  | 47.4 | 312.1 | 88,900  | 225 |
| 230 | 34.0 | 283.9 | 42,400  | 101,200 | 40.2 | 298.1 | 32,000 | 93,400  | 45.5 | 307.1 | 85,800  | 230 |
| 240 | 28.6 | 266.7 | 37,500  | 94,600  | 35.7 | 284.7 | 27,800 | 87,200  | 41.6 | 296.2 | 79,900  | 240 |
| 250 | 22.1 | 244.4 | 33,000  | 88,500  | 30.7 | 268.7 | 23,800 | 81,400  | 37.2 | 283.5 | 74,500  | 250 |
| 260 | 12.3 | 209.5 | 28,500  | 82,700  | 24.6 | 248.7 | 20,000 | 76,100  | 32.4 | 268.4 | 69,500  | 260 |
| 270 |      |       |         |         | 16.5 | 220.3 |        | 71,100  | 26.7 | 249.8 | 64,900  | 270 |
| 280 |      |       |         |         |      |       |        |         | 19.5 | 225.0 | 60,500  | 280 |
| 290 |      |       |         |         |      |       |        |         | 6.1  | 176.1 | 56,000  | 290 |

# MLC650 VPC-MAX S-1

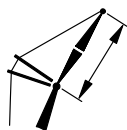
ASME B30.5



440,900 lb



164.0 ft

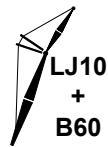


232.9 ft

|     | 85°  |       |         |         | 83°  |       |         |         | 80°  |       |         |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|---------|---------|-----|
|     |      |       |         |         |      |       |         |         |      |       |         |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | ft  |
| 90  | 74.3 | 396.9 | 251,900 | 251,900 |      |       |         |         |      |       |         |         | 90  |
| 95  | 73.0 | 395.3 | 251,600 | 251,600 |      |       |         |         |      |       |         |         | 95  |
| 100 | 71.7 | 393.6 | 238,400 | 251,100 |      |       |         |         |      |       |         |         | 100 |
| 105 | 70.4 | 391.8 | 223,300 | 250,400 | 71.9 | 393.2 | 213,100 | 248,300 |      |       |         |         | 105 |
| 110 | 69.0 | 389.9 | 209,600 | 249,700 | 70.5 | 391.4 | 199,900 | 248,300 |      |       |         |         | 110 |
| 115 | 67.7 | 387.8 | 197,100 | 248,800 | 69.2 | 389.4 | 187,900 | 248,200 |      |       |         |         | 115 |
| 120 | 66.4 | 385.5 | 185,800 | 247,800 | 67.9 | 387.4 | 176,900 | 247,900 |      |       |         |         | 120 |
| 125 | 65.0 | 383.2 | 175,300 | 246,700 | 66.6 | 385.1 | 166,900 | 247,500 | 68.8 | 387.4 | 154,200 | 240,300 | 125 |
| 130 | 63.6 | 380.6 | 165,800 | 245,500 | 65.2 | 382.8 | 157,600 | 245,700 | 67.5 | 385.3 | 145,500 | 236,500 | 130 |
| 135 | 62.2 | 378.0 | 156,900 | 240,000 | 63.8 | 380.3 | 149,100 | 234,100 | 66.1 | 383.0 | 137,400 | 225,300 | 135 |
| 140 | 60.8 | 375.1 | 148,700 | 229,100 | 62.4 | 377.6 | 141,100 | 223,400 | 64.8 | 380.6 | 129,900 | 214,900 | 140 |
| 145 | 59.4 | 372.1 | 141,000 | 219,000 | 61.0 | 374.8 | 133,800 | 213,500 | 63.4 | 378.1 | 123,000 | 205,300 | 145 |
| 150 | 57.9 | 368.9 | 133,900 | 209,500 | 59.6 | 371.8 | 126,900 | 204,200 | 62.0 | 375.4 | 116,500 | 196,400 | 150 |
| 155 | 56.4 | 365.6 | 127,300 | 200,800 | 58.1 | 368.7 | 120,500 | 195,600 | 60.6 | 372.5 | 110,400 | 188,000 | 155 |
| 160 | 54.9 | 362.0 | 121,000 | 192,500 | 56.7 | 365.3 | 114,500 | 187,600 | 59.2 | 369.5 | 104,800 | 180,200 | 160 |
| 165 | 53.4 | 358.3 | 115,200 | 184,800 | 55.1 | 361.8 | 108,900 | 180,100 | 57.7 | 366.3 | 99,500  | 172,900 | 165 |
| 170 | 51.8 | 354.3 | 109,700 | 177,600 | 53.6 | 358.1 | 103,600 | 173,000 | 56.2 | 362.9 | 94,400  | 166,100 | 170 |
| 175 | 50.2 | 350.1 | 104,500 | 170,800 | 52.0 | 354.1 | 98,600  | 166,300 | 54.7 | 359.3 | 89,700  | 159,700 | 175 |
| 180 | 48.6 | 345.6 | 99,600  | 164,400 | 50.4 | 350.0 | 93,900  | 160,100 | 53.1 | 355.5 | 85,300  | 153,600 | 180 |
| 185 | 46.9 | 340.9 | 95,000  | 158,400 | 48.8 | 345.6 | 89,400  | 154,200 | 51.6 | 351.5 | 81,100  | 147,900 | 185 |
| 190 | 45.1 | 335.9 | 90,600  | 152,700 | 47.1 | 340.9 | 85,200  | 148,600 | 50.0 | 347.2 | 77,100  | 142,400 | 190 |
| 195 | 43.3 | 330.6 | 86,400  | 147,300 | 45.4 | 335.9 | 81,100  | 143,300 | 48.3 | 342.7 | 73,300  | 137,300 | 195 |
| 200 | 41.5 | 324.9 | 82,400  | 142,100 | 43.6 | 330.6 | 77,300  | 138,200 | 46.6 | 338.0 | 69,700  | 132,400 | 200 |
| 205 | 39.5 | 318.8 | 78,700  | 137,200 | 41.7 | 325.0 | 73,700  | 133,500 | 44.9 | 332.9 | 66,200  | 127,800 | 205 |
| 210 | 37.5 | 312.3 | 75,000  | 132,600 | 39.8 | 319.0 | 70,200  | 128,900 | 43.0 | 327.5 | 62,900  | 123,400 | 210 |
| 215 | 35.4 | 305.2 | 71,600  | 128,200 | 37.8 | 312.5 | 66,900  | 124,600 | 41.2 | 321.8 | 59,800  | 119,200 | 215 |
| 220 | 33.1 | 297.6 | 68,300  | 123,900 | 35.7 | 305.5 | 63,700  | 120,400 | 39.2 | 315.6 | 56,800  | 115,200 | 220 |
| 225 | 30.8 | 289.2 | 65,100  | 119,900 | 33.5 | 298.0 | 60,600  | 116,500 | 37.2 | 309.0 | 53,900  | 111,400 | 225 |
| 230 | 28.2 | 279.9 | 62,000  | 116,000 | 31.1 | 289.7 | 57,700  | 112,700 | 35.0 | 301.9 | 51,200  | 107,700 | 230 |
| 240 | 22.1 | 257.5 | 56,200  | 108,700 | 25.7 | 270.3 | 52,100  | 105,500 | 30.4 | 285.6 | 46,000  | 100,800 | 240 |
| 250 | 13.6 | 224.3 | 50,600  | 101,900 | 18.9 | 244.6 | 46,900  | 98,900  | 24.8 | 265.6 | 41,100  | 94,500  | 250 |
| 260 |      |       |         |         | 7.0  | 197.0 | 41,500  | 92,600  | 17.7 | 238.3 | 36,400  | 88,500  | 260 |
| 270 |      |       |         |         |      |       |         |         |      |       |         |         | 270 |
| 280 |      |       |         |         |      |       |         |         |      |       |         |         | 280 |
| 290 |      |       |         |         |      |       |         |         |      |       |         |         | 290 |
| 300 |      |       |         |         |      |       |         |         |      |       |         |         | 300 |
| 310 |      |       |         |         |      |       |         |         |      |       |         |         | 310 |

# MLC650 VPC-MAX S-1

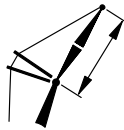
ASME B30.5



440,900 lb



164.0 ft

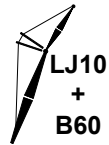


232.9 ft

|     | 75°  |       |        |         | 70°  |       |        |         | 65°  |       |        |     |
|-----|------|-------|--------|---------|------|-------|--------|---------|------|-------|--------|-----|
|     |      |       |        |         |      |       |        |         |      |       |        |     |
|     | ft   | °     | ft     | lb      | lb   | °     | ft     | lb      | lb   | °     | ft     | lb  |
| 90  |      |       |        |         |      |       |        |         |      |       |        | 90  |
| 95  |      |       |        |         |      |       |        |         |      |       |        | 95  |
| 100 |      |       |        |         |      |       |        |         |      |       |        | 100 |
| 105 |      |       |        |         |      |       |        |         |      |       |        | 105 |
| 110 |      |       |        |         |      |       |        |         |      |       |        | 110 |
| 115 |      |       |        |         |      |       |        |         |      |       |        | 115 |
| 120 |      |       |        |         |      |       |        |         |      |       |        | 120 |
| 125 |      |       |        |         |      |       |        |         |      |       |        | 125 |
| 130 |      |       |        |         |      |       |        |         |      |       |        | 130 |
| 135 |      |       |        |         |      |       |        |         |      |       |        | 135 |
| 140 |      |       |        |         |      |       |        |         |      |       |        | 140 |
| 145 |      |       |        |         |      |       |        |         |      |       |        | 145 |
| 150 |      |       |        |         |      |       |        |         |      |       |        | 150 |
| 155 | 64.5 | 376.7 | 93,900 | 175,500 |      |       |        |         |      |       |        | 155 |
| 160 | 63.1 | 374.1 | 88,700 | 168,100 |      |       |        |         |      |       |        | 160 |
| 165 | 61.7 | 371.4 | 83,900 | 161,200 |      |       |        |         |      |       |        | 165 |
| 170 | 60.3 | 368.5 | 79,400 | 154,700 |      |       |        |         |      |       |        | 170 |
| 175 | 58.8 | 365.4 | 75,200 | 148,600 |      |       |        |         |      |       |        | 175 |
| 180 | 57.4 | 362.2 | 71,100 | 142,900 |      |       |        |         |      |       |        | 180 |
| 185 | 55.9 | 358.8 | 67,300 | 137,500 | 59.9 | 363.1 | 53,900 | 127,300 |      |       |        | 185 |
| 190 | 54.4 | 355.1 | 63,700 | 132,400 | 58.4 | 360.0 | 50,600 | 122,500 |      |       |        | 190 |
| 195 | 52.8 | 351.3 | 60,300 | 127,500 | 57.0 | 356.7 | 47,600 | 117,900 |      |       |        | 195 |
| 200 | 51.2 | 347.2 | 57,000 | 122,900 | 55.5 | 353.2 | 44,600 | 113,600 |      |       |        | 200 |
| 205 | 49.6 | 342.9 | 53,900 | 118,500 | 53.9 | 349.5 | 41,900 | 109,400 |      |       |        | 205 |
| 210 | 48.0 | 338.4 | 51,000 | 114,300 | 52.4 | 345.6 | 39,200 | 105,500 |      |       |        | 210 |
| 215 | 46.2 | 333.6 | 48,100 | 110,400 | 50.8 | 341.5 | 36,700 | 101,700 | 54.9 | 346.1 | 93,400 | 215 |
| 220 | 44.5 | 328.4 | 45,400 | 106,600 | 49.2 | 337.1 | 34,300 | 98,200  | 53.4 | 342.3 | 90,000 | 220 |
| 225 | 42.7 | 323.0 | 42,900 | 103,000 | 47.5 | 332.5 | 32,000 | 94,700  | 51.8 | 338.4 | 86,800 | 225 |
| 230 | 40.8 | 317.1 | 40,400 | 99,500  | 45.8 | 327.6 | 29,700 | 91,500  | 50.2 | 334.2 | 83,700 | 230 |
| 240 | 36.8 | 304.2 | 35,700 | 93,000  | 42.1 | 316.8 | 25,600 | 85,400  | 46.9 | 325.0 | 77,900 | 240 |
| 250 | 32.3 | 289.0 | 31,300 | 87,000  | 38.2 | 304.5 | 21,700 | 79,700  | 43.3 | 314.6 | 72,600 | 250 |
| 260 | 27.1 | 270.7 | 27,200 | 81,500  | 34.0 | 290.2 |        | 74,500  | 39.5 | 302.8 | 67,700 | 260 |
| 270 | 20.8 | 247.0 | 23,300 | 76,300  | 29.1 | 273.2 |        | 69,600  | 35.4 | 289.2 | 63,100 | 270 |
| 280 | 11.3 | 209.6 |        | 71,300  | 23.3 | 251.9 |        | 65,100  | 30.7 | 273.2 | 58,900 | 280 |
| 290 |      |       |        |         | 15.5 | 221.6 |        | 60,700  | 25.3 | 253.5 | 54,900 | 290 |
| 300 |      |       |        |         |      |       |        |         | 18.3 | 227.0 | 51,000 | 300 |
| 310 |      |       |        |         |      |       |        |         | 4.6  | 172.5 | 47,100 | 310 |

# MLC650 VPC-MAX S-1

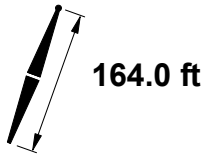
ASME B30.5



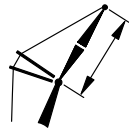
440,900 lb



360°



164.0 ft

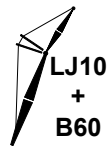


252.6 ft

|     | 85°  |       |         |         | 83°  |       |         |         | 80°  |       |         |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|---------|---------|-----|
|     |      |       |         |         |      |       |         |         |      |       |         |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | ft  |
| 95  | 74.3 | 416.0 | 215,000 | 215,000 |      |       |         |         |      |       |         |         | 95  |
| 100 | 73.2 | 414.4 | 214,700 | 214,700 |      |       |         |         |      |       |         |         | 100 |
| 105 | 72.0 | 412.7 | 214,100 | 214,100 |      |       |         |         |      |       |         |         | 105 |
| 110 | 70.8 | 411.0 | 206,200 | 213,400 | 72.1 | 412.3 | 196,300 | 211,600 |      |       |         |         | 110 |
| 115 | 69.5 | 409.0 | 193,800 | 212,600 | 70.9 | 410.5 | 184,300 | 211,400 |      |       |         |         | 115 |
| 120 | 68.3 | 407.0 | 182,400 | 211,800 | 69.7 | 408.6 | 173,400 | 211,100 |      |       |         |         | 120 |
| 125 | 67.1 | 404.9 | 172,000 | 210,900 | 68.5 | 406.6 | 163,400 | 210,700 |      |       |         |         | 125 |
| 130 | 65.8 | 402.6 | 162,400 | 209,900 | 67.3 | 404.5 | 154,100 | 210,300 | 69.3 | 406.6 | 141,700 | 204,100 | 130 |
| 135 | 64.6 | 400.2 | 153,600 | 208,900 | 66.0 | 402.2 | 145,600 | 209,700 | 68.1 | 404.5 | 133,700 | 204,100 | 135 |
| 140 | 63.3 | 397.6 | 145,400 | 207,800 | 64.8 | 399.8 | 137,700 | 209,100 | 66.9 | 402.4 | 126,200 | 204,100 | 140 |
| 145 | 62.0 | 394.9 | 137,800 | 206,600 | 63.5 | 397.3 | 130,400 | 208,500 | 65.6 | 400.1 | 119,300 | 202,200 | 145 |
| 150 | 60.7 | 392.1 | 130,700 | 205,500 | 62.2 | 394.6 | 123,500 | 201,300 | 64.4 | 397.6 | 112,900 | 193,300 | 150 |
| 155 | 59.4 | 389.1 | 124,000 | 198,000 | 60.9 | 391.8 | 117,100 | 192,800 | 63.1 | 395.0 | 106,800 | 185,000 | 155 |
| 160 | 58.0 | 385.9 | 117,800 | 189,800 | 59.6 | 388.8 | 111,200 | 184,800 | 61.8 | 392.3 | 101,200 | 177,200 | 160 |
| 165 | 56.7 | 382.6 | 112,000 | 182,100 | 58.2 | 385.7 | 105,500 | 177,300 | 60.5 | 389.4 | 95,900  | 170,000 | 165 |
| 170 | 55.3 | 379.1 | 106,500 | 174,900 | 56.9 | 382.3 | 100,300 | 170,200 | 59.2 | 386.4 | 90,900  | 163,200 | 170 |
| 175 | 53.9 | 375.4 | 101,400 | 168,200 | 55.5 | 378.9 | 95,300  | 163,600 | 57.8 | 383.2 | 86,200  | 156,800 | 175 |
| 180 | 52.5 | 371.5 | 96,500  | 161,800 | 54.1 | 375.2 | 90,600  | 157,400 | 56.5 | 379.9 | 81,800  | 150,700 | 180 |
| 185 | 51.0 | 367.4 | 91,900  | 155,800 | 52.7 | 371.4 | 86,100  | 151,500 | 55.1 | 376.4 | 77,600  | 145,000 | 185 |
| 190 | 49.5 | 363.1 | 87,500  | 150,100 | 51.2 | 367.3 | 81,900  | 145,900 | 53.7 | 372.6 | 73,600  | 139,600 | 190 |
| 195 | 48.0 | 358.6 | 83,400  | 144,700 | 49.7 | 363.0 | 77,900  | 140,600 | 52.2 | 368.7 | 69,900  | 134,500 | 195 |
| 200 | 46.4 | 353.8 | 79,400  | 139,600 | 48.2 | 358.5 | 74,100  | 135,600 | 50.8 | 364.6 | 66,300  | 129,700 | 200 |
| 205 | 44.8 | 348.7 | 75,700  | 134,700 | 46.6 | 353.7 | 70,500  | 130,900 | 49.3 | 360.2 | 62,900  | 125,100 | 205 |
| 210 | 43.1 | 343.3 | 72,100  | 130,100 | 45.0 | 348.7 | 67,100  | 126,300 | 47.7 | 355.7 | 59,600  | 120,700 | 210 |
| 215 | 41.4 | 337.6 | 68,700  | 125,700 | 43.3 | 343.4 | 63,800  | 122,000 | 46.1 | 350.8 | 56,500  | 116,500 | 215 |
| 220 | 39.6 | 331.5 | 65,400  | 121,500 | 41.6 | 337.7 | 60,700  | 117,900 | 44.5 | 345.7 | 53,600  | 112,600 | 220 |
| 225 | 37.8 | 325.1 | 62,300  | 117,500 | 39.9 | 331.7 | 57,600  | 114,000 | 42.8 | 340.3 | 50,700  | 108,800 | 225 |
| 230 | 35.8 | 318.1 | 59,300  | 113,700 | 38.0 | 325.3 | 54,800  | 110,200 | 41.1 | 334.5 | 48,000  | 105,100 | 230 |
| 240 | 31.6 | 302.6 | 53,600  | 106,500 | 34.1 | 311.0 | 49,300  | 103,200 | 37.4 | 321.8 | 42,900  | 98,300  | 240 |
| 250 | 26.8 | 283.9 | 48,300  | 99,800  | 29.6 | 294.3 | 44,300  | 96,700  | 33.4 | 307.3 | 38,200  | 92,100  | 250 |
| 260 | 21.0 | 260.2 | 43,400  | 93,600  | 24.5 | 273.8 | 39,500  | 90,700  | 28.9 | 290.1 | 33,700  | 86,200  | 260 |
| 270 | 12.7 | 224.9 | 38,500  | 87,800  | 17.9 | 246.6 | 35,000  | 85,000  | 23.6 | 268.9 | 29,500  | 80,800  | 270 |
| 280 |      |       |         |         | 5.9  | 194.5 | 30,300  | 76,100  | 16.7 | 240.0 | 25,500  | 75,700  | 280 |
| 290 |      |       |         |         |      |       |         |         |      |       |         |         | 290 |
| 300 |      |       |         |         |      |       |         |         |      |       |         |         | 300 |
| 310 |      |       |         |         |      |       |         |         |      |       |         |         | 310 |
| 320 |      |       |         |         |      |       |         |         |      |       |         |         | 320 |
| 330 |      |       |         |         |      |       |         |         |      |       |         |         | 330 |

# MLC650 VPC-MAX S-1

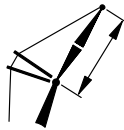
ASME B30.5



440,900 lb



164.0 ft



252.6 ft

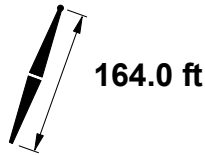
|     | 75°  |       |        |         | 70°  |       |        |         | 65°  |       |        |     |
|-----|------|-------|--------|---------|------|-------|--------|---------|------|-------|--------|-----|
|     | ft   | °     | ft     | lb      | lb   | °     | ft     | lb      | lb   | °     | ft     | lb  |
| 95  |      |       |        |         |      |       |        |         |      |       |        | 95  |
| 100 |      |       |        |         |      |       |        |         |      |       |        | 100 |
| 105 |      |       |        |         |      |       |        |         |      |       |        | 105 |
| 110 |      |       |        |         |      |       |        |         |      |       |        | 110 |
| 115 |      |       |        |         |      |       |        |         |      |       |        | 115 |
| 120 |      |       |        |         |      |       |        |         |      |       |        | 120 |
| 125 |      |       |        |         |      |       |        |         |      |       |        | 125 |
| 130 |      |       |        |         |      |       |        |         |      |       |        | 130 |
| 135 |      |       |        |         |      |       |        |         |      |       |        | 135 |
| 140 |      |       |        |         |      |       |        |         |      |       |        | 140 |
| 145 |      |       |        |         |      |       |        |         |      |       |        | 145 |
| 150 |      |       |        |         |      |       |        |         |      |       |        | 150 |
| 155 |      |       |        |         |      |       |        |         |      |       |        | 155 |
| 160 |      |       |        |         |      |       |        |         |      |       |        | 160 |
| 165 | 64.1 | 393.7 | 80,000 | 158,000 |      |       |        |         |      |       |        | 165 |
| 170 | 62.8 | 391.1 | 75,500 | 151,600 |      |       |        |         |      |       |        | 170 |
| 175 | 61.5 | 388.4 | 71,300 | 145,500 |      |       |        |         |      |       |        | 175 |
| 180 | 60.2 | 385.5 | 67,300 | 139,800 |      |       |        |         |      |       |        | 180 |
| 185 | 58.9 | 382.4 | 63,500 | 134,400 |      |       |        |         |      |       |        | 185 |
| 190 | 57.5 | 379.2 | 60,000 | 129,300 |      |       |        |         |      |       |        | 190 |
| 195 | 56.2 | 375.8 | 56,600 | 124,500 | 59.9 | 380.0 | 43,600 | 114,700 |      |       |        | 195 |
| 200 | 54.8 | 372.2 | 53,300 | 119,900 | 58.5 | 376.9 | 40,700 | 110,400 |      |       |        | 200 |
| 205 | 53.4 | 368.5 | 50,300 | 115,600 | 57.2 | 373.7 | 37,900 | 106,300 |      |       |        | 205 |
| 210 | 51.9 | 364.5 | 47,400 | 111,500 | 55.8 | 370.2 | 35,300 | 102,400 |      |       |        | 210 |
| 215 | 50.4 | 360.3 | 44,600 | 107,500 | 54.4 | 366.6 | 32,800 | 98,700  |      |       |        | 215 |
| 220 | 48.9 | 355.9 | 41,900 | 103,800 | 53.0 | 362.8 | 30,400 | 95,100  |      |       |        | 220 |
| 225 | 47.4 | 351.3 | 39,300 | 100,200 | 51.5 | 358.8 | 28,200 | 91,800  |      |       |        | 225 |
| 230 | 45.8 | 346.4 | 36,900 | 96,700  | 50.0 | 354.5 | 26,000 | 88,500  | 53.9 | 359.5 | 80,600 | 230 |
| 240 | 42.5 | 335.7 | 32,300 | 90,300  | 47.0 | 345.4 | 21,900 | 82,500  | 51.0 | 351.5 | 74,800 | 240 |
| 250 | 38.9 | 323.7 | 28,000 | 84,400  | 43.7 | 335.1 |        | 76,900  | 47.9 | 342.6 | 69,600 | 250 |
| 260 | 35.1 | 309.9 | 24,100 | 78,900  | 40.2 | 323.6 |        | 71,700  | 44.8 | 332.7 | 64,700 | 260 |
| 270 | 30.8 | 293.9 | 20,300 | 73,800  | 36.5 | 310.5 |        | 66,900  | 41.4 | 321.7 | 60,200 | 270 |
| 280 | 25.8 | 274.5 |        | 69,100  | 32.4 | 295.4 |        | 62,500  | 37.7 | 309.1 | 56,100 | 280 |
| 290 | 19.7 | 249.4 |        | 64,600  | 27.7 | 277.4 |        | 58,300  | 33.7 | 294.7 | 52,100 | 290 |
| 300 | 10.4 | 209.4 |        | 60,300  | 22.1 | 254.8 |        | 54,400  | 29.3 | 277.7 | 48,500 | 300 |
| 310 |      |       |        |         | 14.5 | 222.7 |        | 50,600  | 24.0 | 256.9 | 45,000 | 310 |
| 320 |      |       |        |         |      |       |        |         | 17.3 | 228.9 | 41,700 | 320 |
| 330 |      |       |        |         |      |       |        |         | 2.8  | 166.1 | 38,100 | 330 |

# MLC650 VPC-MAX S-1

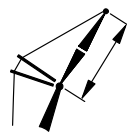
ASME B30.5



440,900 lb



164.0 ft



272.3 ft

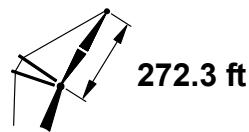
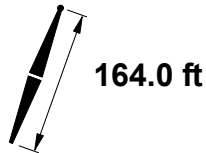
|     | 85°  |       |         |         | 83°  |       |         |         | 80°  |       |         |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|---------|---------|-----|
|     |      |       |         |         |      |       |         |         |      |       |         |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | ft  |
| 100 | 74.4 | 435.0 | 183,100 | 183,100 |      |       |         |         |      |       |         |         | 100 |
| 105 | 73.3 | 433.5 | 182,700 | 182,700 |      |       |         |         |      |       |         |         | 105 |
| 110 | 72.2 | 431.8 | 182,100 | 182,100 |      |       |         |         |      |       |         |         | 110 |
| 115 | 71.1 | 430.1 | 181,500 | 181,500 | 72.4 | 431.4 | 180,200 | 180,200 |      |       |         |         | 115 |
| 120 | 70.0 | 428.2 | 180,300 | 180,700 | 71.2 | 429.6 | 171,000 | 179,900 |      |       |         |         | 120 |
| 125 | 68.8 | 426.2 | 169,900 | 180,000 | 70.1 | 427.8 | 161,000 | 179,500 |      |       |         |         | 125 |
| 130 | 67.7 | 424.2 | 160,300 | 179,100 | 69.0 | 425.8 | 151,800 | 179,100 |      |       |         |         | 130 |
| 135 | 66.5 | 422.0 | 151,500 | 178,300 | 67.9 | 423.7 | 143,300 | 178,600 | 69.8 | 425.8 | 131,200 | 174,000 | 135 |
| 140 | 65.4 | 419.6 | 143,300 | 177,400 | 66.7 | 421.6 | 135,500 | 178,100 | 68.7 | 423.8 | 123,800 | 174,000 | 140 |
| 145 | 64.2 | 417.2 | 135,700 | 176,400 | 65.6 | 419.2 | 128,200 | 177,500 | 67.5 | 421.7 | 116,900 | 174,000 | 145 |
| 150 | 63.0 | 414.6 | 128,600 | 175,500 | 64.4 | 416.8 | 121,300 | 176,800 | 66.4 | 419.4 | 110,500 | 174,000 | 150 |
| 155 | 61.8 | 411.9 | 122,000 | 174,500 | 63.2 | 414.2 | 115,000 | 176,200 | 65.2 | 417.1 | 104,500 | 174,000 | 155 |
| 160 | 60.6 | 409.0 | 115,800 | 173,500 | 62.0 | 411.6 | 109,000 | 175,500 | 64.0 | 414.6 | 98,900  | 173,800 | 160 |
| 165 | 59.4 | 406.0 | 110,000 | 172,500 | 60.8 | 408.7 | 103,400 | 174,700 | 62.8 | 412.0 | 93,600  | 168,000 | 165 |
| 170 | 58.2 | 402.9 | 104,600 | 171,400 | 59.6 | 405.7 | 98,200  | 168,400 | 61.6 | 409.3 | 88,600  | 161,200 | 170 |
| 175 | 56.9 | 399.6 | 99,400  | 166,400 | 58.3 | 402.6 | 93,200  | 161,800 | 60.4 | 406.4 | 84,000  | 154,800 | 175 |
| 180 | 55.6 | 396.1 | 94,600  | 160,100 | 57.1 | 399.3 | 88,500  | 155,600 | 59.2 | 403.4 | 79,600  | 148,800 | 180 |
| 185 | 54.3 | 392.5 | 90,000  | 154,100 | 55.8 | 395.9 | 84,100  | 149,700 | 58.0 | 400.2 | 75,400  | 143,100 | 185 |
| 190 | 53.0 | 388.7 | 85,600  | 148,400 | 54.5 | 392.3 | 79,900  | 144,200 | 56.7 | 396.9 | 71,500  | 137,800 | 190 |
| 195 | 51.6 | 384.7 | 81,500  | 143,100 | 53.2 | 388.5 | 76,000  | 138,900 | 55.4 | 393.4 | 67,700  | 132,700 | 195 |
| 200 | 50.3 | 380.5 | 77,600  | 138,000 | 51.8 | 384.6 | 72,200  | 133,900 | 54.1 | 389.7 | 64,200  | 127,900 | 200 |
| 205 | 48.9 | 376.1 | 73,900  | 133,200 | 50.5 | 380.4 | 68,600  | 129,200 | 52.8 | 385.9 | 60,800  | 123,300 | 205 |
| 210 | 47.4 | 371.5 | 70,300  | 128,600 | 49.1 | 376.0 | 65,200  | 124,700 | 51.4 | 381.9 | 57,600  | 119,000 | 210 |
| 215 | 46.0 | 366.6 | 66,900  | 124,200 | 47.6 | 371.4 | 61,900  | 120,400 | 50.1 | 377.7 | 54,500  | 114,800 | 215 |
| 220 | 44.5 | 361.5 | 63,700  | 120,000 | 46.2 | 366.6 | 58,800  | 116,300 | 48.6 | 373.2 | 51,600  | 110,900 | 220 |
| 225 | 42.9 | 356.1 | 60,600  | 116,000 | 44.7 | 361.5 | 55,800  | 112,400 | 47.2 | 368.6 | 48,800  | 107,100 | 225 |
| 230 | 41.3 | 350.4 | 57,600  | 112,200 | 43.1 | 356.1 | 53,000  | 108,700 | 45.7 | 363.7 | 46,100  | 103,500 | 230 |
| 240 | 38.0 | 337.9 | 52,000  | 105,100 | 39.9 | 344.5 | 47,600  | 101,700 | 42.7 | 353.0 | 41,000  | 96,700  | 240 |
| 250 | 34.3 | 323.7 | 46,900  | 98,500  | 36.4 | 331.3 | 42,700  | 95,300  | 39.4 | 341.1 | 36,300  | 90,500  | 250 |
| 260 | 30.3 | 307.3 | 42,100  | 92,400  | 32.6 | 316.2 | 38,100  | 89,400  | 35.9 | 327.7 | 32,000  | 84,800  | 260 |
| 270 | 25.6 | 287.6 | 37,600  | 86,800  | 28.4 | 298.6 | 33,700  | 83,800  | 32.0 | 312.3 | 28,000  | 79,500  | 270 |
| 280 | 20.0 | 262.7 | 33,300  | 81,500  | 23.4 | 277.1 | 29,700  | 78,700  | 27.7 | 294.2 | 24,200  | 74,500  | 280 |
| 290 | 11.8 | 225.2 | 29,100  | 74,900  | 17.0 | 248.4 | 25,700  | 73,800  | 22.5 | 271.9 | 20,600  | 69,800  | 290 |
| 300 |      |       |         |         | 4.7  | 191.0 | 21,600  | 62,100  | 15.8 | 241.5 |         | 65,400  | 300 |
| 310 |      |       |         |         |      |       |         |         |      |       |         |         | 310 |
| 320 |      |       |         |         |      |       |         |         |      |       |         |         | 320 |
| 330 |      |       |         |         |      |       |         |         |      |       |         |         | 330 |
| 340 |      |       |         |         |      |       |         |         |      |       |         |         | 340 |

# MLC650 VPC-MAX S-1

ASME B30.5



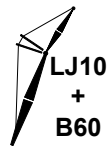
440,900 lb



|     | 75°  |       |        |         | 70°  |       |         |      | 65°   |        |    |     |
|-----|------|-------|--------|---------|------|-------|---------|------|-------|--------|----|-----|
|     |      |       |        |         |      |       |         |      |       |        |    |     |
| ft  | °    | ft    | lb     | lb      | °    | ft    | lb      | lb   | °     | ft     | lb | ft  |
| 100 |      |       |        |         |      |       |         |      |       |        |    | 100 |
| 105 |      |       |        |         |      |       |         |      |       |        |    | 105 |
| 110 |      |       |        |         |      |       |         |      |       |        |    | 110 |
| 115 |      |       |        |         |      |       |         |      |       |        |    | 115 |
| 120 |      |       |        |         |      |       |         |      |       |        |    | 120 |
| 125 |      |       |        |         |      |       |         |      |       |        |    | 125 |
| 130 |      |       |        |         |      |       |         |      |       |        |    | 130 |
| 135 |      |       |        |         |      |       |         |      |       |        |    | 135 |
| 140 |      |       |        |         |      |       |         |      |       |        |    | 140 |
| 145 |      |       |        |         |      |       |         |      |       |        |    | 145 |
| 150 |      |       |        |         |      |       |         |      |       |        |    | 150 |
| 155 |      |       |        |         |      |       |         |      |       |        |    | 155 |
| 160 |      |       |        |         |      |       |         |      |       |        |    | 160 |
| 165 |      |       |        |         |      |       |         |      |       |        |    | 165 |
| 170 | 65.0 | 413.2 | 72,900 | 149,400 |      |       |         |      |       |        |    | 170 |
| 175 | 63.8 | 410.7 | 68,700 | 143,400 |      |       |         |      |       |        |    | 175 |
| 180 | 62.6 | 408.1 | 64,800 | 137,700 |      |       |         |      |       |        |    | 180 |
| 185 | 61.4 | 405.3 | 61,000 | 132,300 |      |       |         |      |       |        |    | 185 |
| 190 | 60.2 | 402.4 | 57,500 | 127,300 |      |       |         |      |       |        |    | 190 |
| 195 | 58.9 | 399.4 | 54,100 | 122,500 |      |       |         |      |       |        |    | 195 |
| 200 | 57.7 | 396.2 | 50,900 | 117,900 |      |       |         |      |       |        |    | 200 |
| 205 | 56.4 | 392.8 | 47,900 | 113,600 | 59.8 | 397.0 | 104,200 |      |       |        |    | 205 |
| 210 | 55.1 | 389.3 | 45,000 | 109,500 | 58.6 | 393.9 | 100,300 |      |       |        |    | 210 |
| 215 | 53.8 | 385.6 | 42,200 | 105,600 | 57.3 | 390.7 | 96,600  |      |       |        |    | 215 |
| 220 | 52.5 | 381.7 | 39,600 | 101,900 | 56.1 | 387.3 | 93,100  |      |       |        |    | 220 |
| 225 | 51.1 | 377.6 | 37,100 | 98,300  | 54.8 | 383.7 | 89,700  |      |       |        |    | 225 |
| 230 | 49.8 | 373.4 | 34,700 | 94,900  | 53.5 | 379.9 | 86,500  |      |       |        |    | 230 |
| 240 | 46.9 | 364.2 | 30,100 | 88,500  | 50.8 | 371.9 | 80,500  | 54.3 | 376.6 | 72,700 |    | 240 |
| 250 | 43.9 | 354.0 | 25,900 | 82,700  | 47.9 | 363.0 | 75,000  | 51.6 | 368.8 | 67,600 |    | 250 |
| 260 | 40.7 | 342.6 | 22,000 | 77,300  | 45.0 | 353.2 | 69,900  | 48.9 | 360.2 | 62,800 |    | 260 |
| 270 | 37.3 | 329.9 |        | 72,200  | 41.9 | 342.3 | 65,200  | 45.9 | 350.7 | 58,300 |    | 270 |
| 280 | 33.6 | 315.3 |        | 67,600  | 38.6 | 330.1 | 60,800  | 42.9 | 340.1 | 54,200 |    | 280 |
| 290 | 29.5 | 298.4 |        | 63,200  | 35.0 | 316.2 | 56,700  | 39.6 | 328.3 | 50,300 |    | 290 |
| 300 | 24.7 | 278.0 |        | 59,100  | 31.0 | 300.3 | 52,800  | 36.1 | 315.0 | 46,700 |    | 300 |
| 310 | 18.7 | 251.6 |        | 55,200  | 26.5 | 281.3 | 49,200  | 32.3 | 299.8 | 43,300 |    | 310 |
| 320 | 9.5  | 209.0 |        | 51,400  | 21.1 | 257.6 | 45,800  | 28.0 | 281.9 | 40,200 |    | 320 |
| 330 |      |       |        |         | 13.6 | 223.6 | 42,500  | 22.9 | 260.0 | 37,100 |    | 330 |
| 340 |      |       |        |         |      |       |         | 16.4 | 230.5 | 34,200 |    | 340 |

# MLC650 VPC-MAX S-1

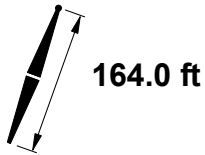
ASME B30.5



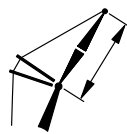
440,900 lb



360°



164.0 ft



292.0 ft

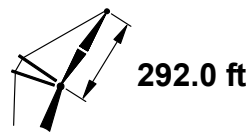
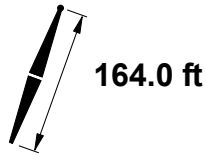
|     | 85°  |       |         |         | 83°  |       |         |         | 80°  |       |         |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|---------|---------|-----|
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | ft  |
| 105 | 74.5 | 454.1 | 156,000 | 156,000 |      |       |         |         |      |       |         |         | 105 |
| 110 | 73.4 | 452.5 | 155,400 | 155,400 |      |       |         |         |      |       |         |         | 110 |
| 115 | 72.4 | 450.9 | 154,700 | 154,700 |      |       |         |         |      |       |         |         | 115 |
| 120 | 71.4 | 449.2 | 154,000 | 154,000 | 72.6 | 450.4 | 153,000 | 153,000 |      |       |         |         | 120 |
| 125 | 70.3 | 447.4 | 153,300 | 153,300 | 71.5 | 448.7 | 152,600 | 152,600 |      |       |         |         | 125 |
| 130 | 69.3 | 445.4 | 152,500 | 152,500 | 70.5 | 446.9 | 148,000 | 152,100 |      |       |         |         | 130 |
| 135 | 68.2 | 443.4 | 147,800 | 151,600 | 69.4 | 445.0 | 139,500 | 151,500 |      |       |         |         | 135 |
| 140 | 67.2 | 441.3 | 139,700 | 150,800 | 68.4 | 443.0 | 131,700 | 150,900 |      |       |         |         | 140 |
| 145 | 66.1 | 439.0 | 132,100 | 149,900 | 67.3 | 440.9 | 124,400 | 150,300 | 69.1 | 443.0 | 112,900 | 147,000 | 145 |
| 150 | 65.0 | 436.7 | 125,000 | 148,900 | 66.2 | 438.6 | 117,600 | 149,600 | 68.1 | 440.9 | 106,500 | 146,800 | 150 |
| 155 | 63.9 | 434.2 | 118,400 | 148,000 | 65.1 | 436.3 | 111,200 | 148,900 | 67.0 | 438.8 | 100,500 | 146,500 | 155 |
| 160 | 62.8 | 431.6 | 112,200 | 147,100 | 64.1 | 433.8 | 105,300 | 148,200 | 65.9 | 436.5 | 94,900  | 146,200 | 160 |
| 165 | 61.7 | 428.8 | 106,400 | 146,100 | 62.9 | 431.2 | 99,700  | 147,500 | 64.8 | 434.1 | 89,700  | 145,900 | 165 |
| 170 | 60.5 | 426.0 | 101,000 | 145,200 | 61.8 | 428.5 | 94,500  | 146,700 | 63.7 | 431.6 | 84,700  | 145,500 | 170 |
| 175 | 59.4 | 423.0 | 95,800  | 144,200 | 60.7 | 425.7 | 89,500  | 146,000 | 62.6 | 429.0 | 80,100  | 145,100 | 175 |
| 180 | 58.2 | 419.9 | 91,000  | 143,300 | 59.6 | 422.7 | 84,900  | 145,200 | 61.5 | 426.2 | 75,700  | 144,700 | 180 |
| 185 | 57.1 | 416.6 | 86,400  | 142,300 | 58.4 | 419.6 | 80,500  | 144,400 | 60.4 | 423.4 | 71,600  | 140,000 | 185 |
| 190 | 55.9 | 413.2 | 82,100  | 141,300 | 57.2 | 416.3 | 76,300  | 141,200 | 59.2 | 420.3 | 67,600  | 134,700 | 190 |
| 195 | 54.7 | 409.6 | 78,000  | 140,200 | 56.1 | 412.9 | 72,300  | 136,000 | 58.1 | 417.2 | 63,900  | 129,600 | 195 |
| 200 | 53.5 | 405.8 | 74,100  | 135,100 | 54.8 | 409.4 | 68,600  | 131,000 | 56.9 | 413.9 | 60,400  | 124,800 | 200 |
| 205 | 52.2 | 401.9 | 70,400  | 130,300 | 53.6 | 405.7 | 65,000  | 126,300 | 55.7 | 410.4 | 57,000  | 120,300 | 205 |
| 210 | 50.9 | 397.8 | 66,800  | 125,700 | 52.4 | 401.8 | 61,600  | 121,800 | 54.5 | 406.8 | 53,800  | 116,000 | 210 |
| 215 | 49.6 | 393.5 | 63,400  | 121,400 | 51.1 | 397.7 | 58,300  | 117,500 | 53.3 | 403.1 | 50,700  | 111,800 | 215 |
| 220 | 48.3 | 389.1 | 60,200  | 117,200 | 49.8 | 393.4 | 55,200  | 113,500 | 52.0 | 399.1 | 47,800  | 107,900 | 220 |
| 225 | 47.0 | 384.4 | 57,100  | 113,200 | 48.5 | 389.0 | 52,300  | 109,600 | 50.7 | 395.0 | 45,000  | 104,200 | 225 |
| 230 | 45.6 | 379.4 | 54,200  | 109,400 | 47.2 | 384.3 | 49,400  | 105,900 | 49.4 | 390.7 | 42,400  | 100,600 | 230 |
| 240 | 42.7 | 368.8 | 48,700  | 102,300 | 44.4 | 374.3 | 44,100  | 98,900  | 46.8 | 381.4 | 37,400  | 93,800  | 240 |
| 250 | 39.7 | 357.1 | 43,500  | 95,800  | 41.5 | 363.2 | 39,200  | 92,500  | 44.0 | 371.3 | 32,700  | 87,700  | 250 |
| 260 | 36.5 | 343.9 | 38,800  | 89,800  | 38.3 | 350.9 | 34,700  | 86,600  | 41.0 | 360.0 | 28,500  | 82,000  | 260 |
| 270 | 32.9 | 329.0 | 34,400  | 84,200  | 35.0 | 337.0 | 30,400  | 81,200  | 37.9 | 347.5 | 24,500  | 76,700  | 270 |
| 280 | 29.0 | 311.7 | 30,300  | 79,000  | 31.3 | 321.2 | 26,400  | 76,100  | 34.5 | 333.3 | 20,800  | 71,800  | 280 |
| 290 | 24.5 | 291.1 | 26,400  | 74,100  | 27.2 | 302.7 | 22,700  | 71,300  | 30.7 | 317.2 |         | 67,200  | 290 |
| 300 | 19.0 | 265.0 | 22,600  | 69,500  | 22.3 | 280.1 |         | 66,900  | 26.5 | 298.1 |         | 62,900  | 300 |
| 310 | 11.0 | 225.3 |         | 60,300  | 16.1 | 250.0 |         | 62,600  | 21.5 | 274.8 |         | 58,800  | 310 |
| 320 |      |       |         |         | 3.3  | 185.7 |         | 47,500  | 14.9 | 242.8 |         | 55,000  | 320 |
| 330 |      |       |         |         |      |       |         |         |      |       |         |         | 330 |
| 340 |      |       |         |         |      |       |         |         |      |       |         |         | 340 |
| 350 |      |       |         |         |      |       |         |         |      |       |         |         | 350 |
| 360 |      |       |         |         |      |       |         |         |      |       |         |         | 360 |

# MLC650 VPC-MAX S-1

ASME B30.5



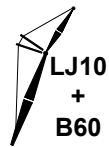
440,900 lb



|     | 75°  |       |        |         | 70°  |       |        |      | 65°   |        |    |     |
|-----|------|-------|--------|---------|------|-------|--------|------|-------|--------|----|-----|
|     |      |       |        |         |      |       |        |      |       |        |    |     |
|     | ft   | °     | ft     | lb      | lb   | °     | ft     | lb   | °     | ft     | lb | ft  |
| 105 |      |       |        |         |      |       |        |      |       |        |    | 105 |
| 110 |      |       |        |         |      |       |        |      |       |        |    | 110 |
| 115 |      |       |        |         |      |       |        |      |       |        |    | 115 |
| 120 |      |       |        |         |      |       |        |      |       |        |    | 120 |
| 125 |      |       |        |         |      |       |        |      |       |        |    | 125 |
| 130 |      |       |        |         |      |       |        |      |       |        |    | 130 |
| 135 |      |       |        |         |      |       |        |      |       |        |    | 135 |
| 140 |      |       |        |         |      |       |        |      |       |        |    | 140 |
| 145 |      |       |        |         |      |       |        |      |       |        |    | 145 |
| 150 |      |       |        |         |      |       |        |      |       |        |    | 150 |
| 155 |      |       |        |         |      |       |        |      |       |        |    | 155 |
| 160 |      |       |        |         |      |       |        |      |       |        |    | 160 |
| 165 |      |       |        |         |      |       |        |      |       |        |    | 165 |
| 170 |      |       |        |         |      |       |        |      |       |        |    | 170 |
| 175 |      |       |        |         |      |       |        |      |       |        |    | 175 |
| 180 | 64.6 | 430.2 | 60,600 | 134,400 |      |       |        |      |       |        |    | 180 |
| 185 | 63.5 | 427.7 | 56,900 | 129,000 |      |       |        |      |       |        |    | 185 |
| 190 | 62.4 | 425.0 | 53,400 | 124,000 |      |       |        |      |       |        |    | 190 |
| 195 | 61.3 | 422.3 | 50,000 | 119,200 |      |       |        |      |       |        |    | 195 |
| 200 | 60.1 | 419.4 | 46,900 | 114,700 |      |       |        |      |       |        |    | 200 |
| 205 | 59.0 | 416.3 | 43,900 | 110,400 |      |       |        |      |       |        |    | 205 |
| 210 | 57.8 | 413.1 | 41,000 | 106,400 |      |       |        |      |       |        |    | 210 |
| 215 | 56.6 | 409.8 | 38,200 | 102,500 | 59.8 | 413.9 | 93,300 |      |       |        |    | 215 |
| 220 | 55.4 | 406.3 | 35,600 | 98,800  | 58.7 | 410.9 | 89,800 |      |       |        |    | 220 |
| 225 | 54.2 | 402.7 | 33,100 | 95,200  | 57.5 | 407.6 | 86,500 |      |       |        |    | 225 |
| 230 | 53.0 | 398.9 | 30,700 | 91,800  | 56.3 | 404.3 | 83,300 |      |       |        |    | 230 |
| 240 | 50.5 | 390.7 | 26,200 | 85,500  | 53.9 | 397.1 | 77,300 |      |       |        |    | 240 |
| 250 | 47.8 | 381.8 | 22,100 | 79,700  | 51.4 | 389.2 | 71,800 | 54.7 | 393.7 | 64,300 |    | 250 |
| 260 | 45.1 | 372.0 |        | 74,300  | 48.8 | 380.6 | 66,800 | 52.2 | 386.0 | 59,500 |    | 260 |
| 270 | 42.2 | 361.2 |        | 69,300  | 46.1 | 371.1 | 62,100 | 49.6 | 377.6 | 55,100 |    | 270 |
| 280 | 39.1 | 349.2 |        | 64,700  | 43.3 | 360.7 | 57,800 | 47.0 | 368.4 | 51,000 |    | 280 |
| 290 | 35.8 | 335.8 |        | 60,400  | 40.3 | 349.1 | 53,700 | 44.2 | 358.3 | 47,200 |    | 290 |
| 300 | 32.3 | 320.5 |        | 56,300  | 37.1 | 336.2 | 49,900 | 41.2 | 347.1 | 43,700 |    | 300 |
| 310 | 28.3 | 302.7 |        | 52,500  | 33.6 | 321.6 | 46,300 | 38.1 | 334.7 | 40,300 |    | 310 |
| 320 | 23.6 | 281.3 |        | 49,000  | 29.8 | 304.9 | 43,000 | 34.7 | 320.7 | 37,200 |    | 320 |
| 330 | 17.8 | 253.6 |        | 45,500  | 25.4 | 285.0 | 39,800 | 31.0 | 304.7 | 34,200 |    | 330 |
| 340 | 8.7  | 208.2 |        | 42,200  | 20.1 | 260.1 | 36,800 | 26.8 | 285.9 | 31,400 |    | 340 |
| 350 |      |       |        |         | 12.8 | 224.3 | 33,800 | 21.9 | 263.0 | 28,700 |    | 350 |
| 360 |      |       |        |         |      |       |        | 15.5 | 231.9 | 26,100 |    | 360 |

# MLC650 VPC-MAX S-1

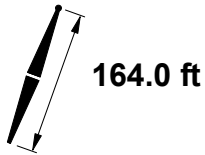
ASME B30.5



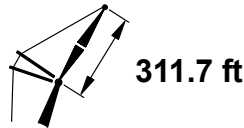
440,900 lb



360°



164.0 ft



311.7 ft

|     | 85°  |       |         |         | 83°  |       |         |         | 80°  |       |         |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|---------|---------|-----|
|     |      |       |         |         |      |       |         |         |      |       |         |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | ft  |
| 110 | 74.5 | 473.1 | 134,400 | 134,400 |      |       |         |         |      |       |         |         | 110 |
| 115 | 73.6 | 471.6 | 133,400 | 133,400 |      |       |         |         |      |       |         |         | 115 |
| 120 | 72.6 | 470.0 | 132,800 | 132,800 |      |       |         |         |      |       |         |         | 120 |
| 125 | 71.6 | 468.3 | 132,100 | 132,100 | 72.7 | 469.5 | 131,200 | 131,200 |      |       |         |         | 125 |
| 130 | 70.7 | 466.5 | 131,400 | 131,400 | 71.8 | 467.8 | 130,800 | 130,800 |      |       |         |         | 130 |
| 135 | 69.7 | 464.6 | 130,600 | 130,600 | 70.8 | 466.1 | 130,200 | 130,200 |      |       |         |         | 135 |
| 140 | 68.7 | 462.6 | 129,800 | 129,800 | 69.8 | 464.2 | 129,500 | 129,700 |      |       |         |         | 140 |
| 145 | 67.7 | 460.6 | 129,000 | 129,000 | 68.8 | 462.2 | 122,200 | 129,100 |      |       |         |         | 145 |
| 150 | 66.7 | 458.4 | 123,000 | 128,200 | 67.8 | 460.1 | 115,400 | 128,500 | 69.5 | 462.2 | 104,100 | 125,700 | 150 |
| 155 | 65.7 | 456.1 | 116,400 | 127,400 | 66.8 | 458.0 | 109,100 | 127,800 | 68.5 | 460.2 | 98,200  | 125,400 | 155 |
| 160 | 64.7 | 453.7 | 110,200 | 126,500 | 65.8 | 455.7 | 103,200 | 127,200 | 67.5 | 458.1 | 92,600  | 125,100 | 160 |
| 165 | 63.6 | 451.2 | 104,400 | 125,700 | 64.8 | 453.3 | 97,600  | 126,500 | 66.5 | 455.9 | 87,400  | 124,700 | 165 |
| 170 | 62.6 | 448.5 | 99,000  | 124,800 | 63.8 | 450.8 | 92,400  | 125,800 | 65.5 | 453.6 | 82,500  | 124,400 | 170 |
| 175 | 61.5 | 445.8 | 93,900  | 123,900 | 62.7 | 448.2 | 87,400  | 125,100 | 64.5 | 451.1 | 77,800  | 124,000 | 175 |
| 180 | 60.5 | 442.9 | 89,000  | 123,100 | 61.7 | 445.5 | 82,800  | 124,400 | 63.5 | 448.6 | 73,500  | 123,500 | 180 |
| 185 | 59.4 | 439.9 | 84,500  | 122,200 | 60.6 | 442.6 | 78,400  | 123,600 | 62.4 | 446.0 | 69,300  | 123,100 | 185 |
| 190 | 58.3 | 436.8 | 80,200  | 121,400 | 59.6 | 439.7 | 74,200  | 122,900 | 61.4 | 443.2 | 65,400  | 122,600 | 190 |
| 195 | 57.2 | 433.6 | 76,100  | 120,500 | 58.5 | 436.6 | 70,300  | 122,200 | 60.3 | 440.3 | 61,700  | 122,100 | 195 |
| 200 | 56.1 | 430.2 | 72,200  | 119,600 | 57.4 | 433.3 | 66,500  | 121,500 | 59.2 | 437.3 | 58,200  | 121,600 | 200 |
| 205 | 55.0 | 426.6 | 68,500  | 118,800 | 56.3 | 429.9 | 63,000  | 120,700 | 58.1 | 434.2 | 54,800  | 118,500 | 205 |
| 210 | 53.8 | 423.0 | 64,900  | 118,000 | 55.1 | 426.4 | 59,600  | 120,000 | 57.1 | 430.9 | 51,700  | 114,200 | 210 |
| 215 | 52.7 | 419.1 | 61,600  | 117,200 | 54.0 | 422.8 | 56,400  | 115,900 | 55.9 | 427.5 | 48,600  | 110,100 | 215 |
| 220 | 51.5 | 415.1 | 58,400  | 115,000 | 52.9 | 418.9 | 53,300  | 111,800 | 54.8 | 423.9 | 45,700  | 106,200 | 220 |
| 225 | 50.3 | 410.9 | 55,300  | 111,700 | 51.7 | 415.0 | 50,300  | 108,000 | 53.7 | 420.2 | 42,900  | 102,400 | 225 |
| 230 | 49.1 | 406.6 | 52,300  | 107,900 | 50.5 | 410.8 | 47,500  | 104,300 | 52.5 | 416.3 | 40,300  | 98,900  | 230 |
| 240 | 46.6 | 397.2 | 46,800  | 100,800 | 48.0 | 401.9 | 42,200  | 97,300  | 50.1 | 408.1 | 35,300  | 92,200  | 240 |
| 250 | 44.0 | 387.0 | 41,800  | 94,300  | 45.5 | 392.3 | 37,300  | 91,000  | 47.6 | 399.1 | 30,700  | 86,000  | 250 |
| 260 | 41.2 | 375.8 | 37,100  | 88,300  | 42.8 | 381.6 | 32,800  | 85,100  | 45.1 | 389.3 | 26,500  | 80,400  | 260 |
| 270 | 38.3 | 363.5 | 32,700  | 82,700  | 40.0 | 370.0 | 28,600  | 79,700  | 42.4 | 378.5 | 22,500  | 75,100  | 270 |
| 280 | 35.1 | 349.6 | 28,600  | 77,600  | 36.9 | 357.0 | 24,700  | 74,600  | 39.5 | 366.7 |         | 70,200  | 280 |
| 290 | 31.7 | 334.0 | 24,800  | 72,800  | 33.7 | 342.4 | 21,000  | 69,900  | 36.5 | 353.5 |         | 65,700  | 290 |
| 300 | 27.9 | 316.0 | 21,200  | 68,200  | 30.1 | 325.9 |         | 65,500  | 33.2 | 338.7 |         | 61,400  | 300 |
| 310 | 23.6 | 294.4 |         | 64,000  | 26.1 | 306.5 |         | 61,400  | 29.6 | 321.7 |         | 57,500  | 310 |
| 320 | 18.2 | 267.1 |         | 60,000  | 21.4 | 282.9 |         | 57,500  | 25.5 | 301.9 |         | 53,700  | 320 |
| 330 | 10.3 | 225.2 |         | 49,100  | 15.3 | 251.3 |         | 53,700  | 20.6 | 277.4 |         | 50,100  | 330 |
| 340 |      |       |         |         |      |       |         |         | 14.2 | 243.8 |         | 46,700  | 340 |
| 350 |      |       |         |         |      |       |         |         |      |       |         |         | 350 |
| 360 |      |       |         |         |      |       |         |         |      |       |         |         | 360 |
| 370 |      |       |         |         |      |       |         |         |      |       |         |         | 370 |

# MLC650 VPC-MAX S-1

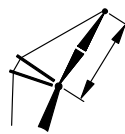
ASME B30.5



440,900 lb



164.0 ft

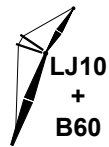


311.7 ft

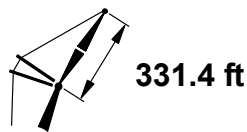
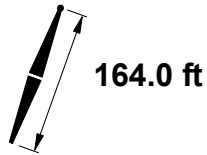
|     | 75°  |       |        |         | 70°  |       |        |      | 65°   |        |    |     |
|-----|------|-------|--------|---------|------|-------|--------|------|-------|--------|----|-----|
|     |      |       |        |         |      |       |        |      |       |        |    |     |
|     | ft   | °     | ft     | lb      | lb   | °     | ft     | lb   | °     | ft     | lb | ft  |
| 110 |      |       |        |         |      |       |        |      |       |        |    | 110 |
| 115 |      |       |        |         |      |       |        |      |       |        |    | 115 |
| 120 |      |       |        |         |      |       |        |      |       |        |    | 120 |
| 125 |      |       |        |         |      |       |        |      |       |        |    | 125 |
| 130 |      |       |        |         |      |       |        |      |       |        |    | 130 |
| 135 |      |       |        |         |      |       |        |      |       |        |    | 135 |
| 140 |      |       |        |         |      |       |        |      |       |        |    | 140 |
| 145 |      |       |        |         |      |       |        |      |       |        |    | 145 |
| 150 |      |       |        |         |      |       |        |      |       |        |    | 150 |
| 155 |      |       |        |         |      |       |        |      |       |        |    | 155 |
| 160 |      |       |        |         |      |       |        |      |       |        |    | 160 |
| 165 |      |       |        |         |      |       |        |      |       |        |    | 165 |
| 170 |      |       |        |         |      |       |        |      |       |        |    | 170 |
| 175 |      |       |        |         |      |       |        |      |       |        |    | 175 |
| 180 |      |       |        |         |      |       |        |      |       |        |    | 180 |
| 185 |      |       |        |         |      |       |        |      |       |        |    | 185 |
| 190 | 64.3 | 447.2 | 50,900 | 115,500 |      |       |        |      |       |        |    | 190 |
| 195 | 63.2 | 444.7 | 47,600 | 115,500 |      |       |        |      |       |        |    | 195 |
| 200 | 62.2 | 442.0 | 44,400 | 112,700 |      |       |        |      |       |        |    | 200 |
| 205 | 61.1 | 439.2 | 41,400 | 108,500 |      |       |        |      |       |        |    | 205 |
| 210 | 60.1 | 436.3 | 38,600 | 104,400 |      |       |        |      |       |        |    | 210 |
| 215 | 59.0 | 433.3 | 35,900 | 100,500 |      |       |        |      |       |        |    | 215 |
| 220 | 57.9 | 430.1 | 33,300 | 96,800  |      |       |        |      |       |        |    | 220 |
| 225 | 56.8 | 426.8 | 30,800 | 93,300  | 59.8 | 430.9 | 84,400 |      |       |        |    | 225 |
| 230 | 55.7 | 423.4 | 28,400 | 90,000  | 58.7 | 427.8 | 81,300 |      |       |        |    | 230 |
| 240 | 53.4 | 416.0 | 23,900 | 83,700  | 56.5 | 421.3 | 75,300 |      |       |        |    | 240 |
| 250 | 51.1 | 408.1 |        | 77,900  | 54.3 | 414.2 | 69,900 |      |       |        |    | 250 |
| 260 | 48.6 | 399.4 |        | 72,500  | 51.9 | 406.4 | 64,900 | 55.0 | 410.7 | 57,500 |    | 260 |
| 270 | 46.1 | 389.9 |        | 67,600  | 49.5 | 398.0 | 60,200 | 52.7 | 403.2 | 53,100 |    | 270 |
| 280 | 43.5 | 379.5 |        | 63,000  | 47.0 | 388.8 | 55,900 | 50.3 | 395.0 | 49,100 |    | 280 |
| 290 | 40.7 | 368.1 |        | 58,700  | 44.4 | 378.8 | 51,900 | 47.8 | 386.1 | 45,300 |    | 290 |
| 300 | 37.7 | 355.5 |        | 54,700  | 41.7 | 367.8 | 48,200 | 45.3 | 376.3 | 41,800 |    | 300 |
| 310 | 34.5 | 341.4 |        | 51,000  | 38.8 | 355.6 | 44,600 | 42.6 | 365.6 | 38,500 |    | 310 |
| 320 | 31.1 | 325.3 |        | 47,500  | 35.7 | 342.1 | 41,300 | 39.7 | 353.9 | 35,400 |    | 320 |
| 330 | 27.2 | 306.8 |        | 44,100  | 32.3 | 326.8 | 38,200 | 36.7 | 340.8 | 32,500 |    | 330 |
| 340 | 22.7 | 284.4 |        | 41,000  | 28.6 | 309.3 | 35,300 | 33.4 | 326.1 | 29,700 |    | 340 |
| 350 | 17.0 | 255.4 |        | 37,900  | 24.4 | 288.5 | 32,500 | 29.9 | 309.3 | 27,100 |    | 350 |
| 360 | 7.9  | 207.0 |        | 34,900  | 19.3 | 262.4 | 29,800 | 25.8 | 289.7 | 24,600 |    | 360 |
| 370 |      |       |        |         | 12.1 | 224.7 | 27,100 | 21.0 | 265.7 | 22,100 |    | 370 |

# MLC650 VPC-MAX S-1

ASME B30.5



440,900 lb



|     | 85°  |       |         |         | 83°  |       |         |         | 80°  |       |        |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|--------|---------|-----|
|     |      |       |         |         |      |       |         |         |      |       |        |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb     | lb      | ft  |
| 115 | 74.6 | 492.1 | 114,700 | 114,700 |      |       |         |         |      |       |        |         | 115 |
| 120 | 73.7 | 490.7 | 114,000 | 114,000 |      |       |         |         |      |       |        |         | 120 |
| 125 | 72.8 | 489.1 | 113,400 | 113,400 |      |       |         |         |      |       |        |         | 125 |
| 130 | 71.8 | 487.4 | 112,800 | 112,800 | 72.9 | 488.6 | 112,100 | 112,100 |      |       |        |         | 130 |
| 135 | 70.9 | 485.6 | 112,100 | 112,100 | 72.0 | 486.9 | 111,600 | 111,600 |      |       |        |         | 135 |
| 140 | 70.0 | 483.8 | 111,400 | 111,400 | 71.1 | 485.2 | 111,100 | 111,100 |      |       |        |         | 140 |
| 145 | 69.1 | 481.8 | 110,600 | 110,600 | 70.1 | 483.3 | 110,500 | 110,500 |      |       |        |         | 145 |
| 150 | 68.2 | 479.8 | 109,800 | 109,800 | 69.2 | 481.4 | 109,900 | 109,900 |      |       |        |         | 150 |
| 155 | 67.2 | 477.7 | 109,100 | 109,100 | 68.3 | 479.4 | 105,500 | 109,200 | 69.9 | 481.3 | 94,300 | 106,800 | 155 |
| 160 | 66.3 | 475.5 | 106,700 | 108,300 | 67.3 | 477.3 | 99,500  | 108,600 | 68.9 | 479.4 | 88,800 | 106,500 | 160 |
| 165 | 65.3 | 473.1 | 101,000 | 107,500 | 66.4 | 475.1 | 94,000  | 107,900 | 68.0 | 477.3 | 83,600 | 106,100 | 165 |
| 170 | 64.3 | 470.7 | 95,500  | 106,700 | 65.4 | 472.7 | 88,800  | 107,300 | 67.1 | 475.2 | 78,700 | 105,700 | 170 |
| 175 | 63.4 | 468.2 | 90,400  | 105,900 | 64.5 | 470.3 | 83,800  | 106,600 | 66.1 | 472.9 | 74,000 | 105,300 | 175 |
| 180 | 62.4 | 465.5 | 85,600  | 105,100 | 63.5 | 467.8 | 79,200  | 105,900 | 65.2 | 470.6 | 69,700 | 104,900 | 180 |
| 185 | 61.4 | 462.8 | 81,000  | 104,300 | 62.5 | 465.2 | 74,800  | 105,200 | 64.2 | 468.1 | 65,600 | 104,400 | 185 |
| 190 | 60.4 | 459.9 | 76,700  | 103,500 | 61.6 | 462.4 | 70,700  | 104,500 | 63.2 | 465.6 | 61,700 | 103,900 | 190 |
| 195 | 59.4 | 456.9 | 72,600  | 102,700 | 60.6 | 459.6 | 66,700  | 103,900 | 62.2 | 462.9 | 58,000 | 103,500 | 195 |
| 200 | 58.4 | 453.8 | 68,700  | 101,900 | 59.6 | 456.6 | 63,000  | 103,200 | 61.3 | 460.1 | 54,500 | 103,000 | 200 |
| 205 | 57.4 | 450.6 | 65,000  | 101,200 | 58.5 | 453.5 | 59,500  | 102,500 | 60.3 | 457.3 | 51,100 | 102,500 | 205 |
| 210 | 56.3 | 447.2 | 61,500  | 100,400 | 57.5 | 450.3 | 56,100  | 101,900 | 59.2 | 454.3 | 48,000 | 102,000 | 210 |
| 215 | 55.3 | 443.7 | 58,100  | 99,700  | 56.5 | 447.0 | 52,800  | 101,200 | 58.2 | 451.1 | 44,900 | 101,500 | 215 |
| 220 | 54.2 | 440.1 | 54,900  | 98,900  | 55.4 | 443.5 | 49,800  | 100,500 | 57.2 | 447.9 | 42,100 | 101,000 | 220 |
| 225 | 53.1 | 436.3 | 51,900  | 98,200  | 54.3 | 439.9 | 46,800  | 99,900  | 56.2 | 444.5 | 39,300 | 99,600  | 225 |
| 230 | 52.0 | 432.3 | 49,000  | 97,500  | 53.3 | 436.1 | 44,000  | 99,200  | 55.1 | 441.0 | 36,700 | 96,000  | 230 |
| 240 | 49.8 | 424.0 | 43,500  | 95,700  | 51.1 | 428.1 | 38,700  | 94,600  | 52.9 | 433.5 | 31,700 | 89,300  | 240 |
| 250 | 47.4 | 414.9 | 38,400  | 91,300  | 48.8 | 419.5 | 33,900  | 88,300  | 50.7 | 425.4 | 27,100 | 83,200  | 250 |
| 260 | 45.0 | 405.1 | 33,700  | 85,700  | 46.4 | 410.1 | 29,400  | 82,400  | 48.4 | 416.7 | 22,900 | 77,600  | 260 |
| 270 | 42.5 | 394.3 | 29,400  | 80,100  | 43.9 | 399.9 | 25,200  | 77,000  | 46.0 | 407.2 |        | 72,400  | 270 |
| 280 | 39.8 | 382.6 | 25,400  | 75,000  | 41.3 | 388.7 | 21,400  | 72,000  | 43.5 | 396.8 |        | 67,500  | 280 |
| 290 | 37.0 | 369.6 | 21,600  | 70,200  | 38.6 | 376.4 |         | 67,300  | 40.9 | 385.5 |        | 63,000  | 290 |
| 300 | 33.9 | 355.1 |         | 65,700  | 35.7 | 362.9 |         | 62,900  | 38.2 | 373.0 |        | 58,800  | 300 |
| 310 | 30.6 | 338.8 |         | 61,500  | 32.5 | 347.7 |         | 58,800  | 35.2 | 359.2 |        | 54,800  | 310 |
| 320 | 26.9 | 320.0 |         | 57,600  | 29.1 | 330.4 |         | 55,000  | 32.0 | 343.8 |        | 51,100  | 320 |
| 330 | 22.7 | 297.6 |         | 53,800  | 25.2 | 310.2 |         | 51,400  | 28.5 | 326.1 |        | 47,600  | 330 |
| 340 | 17.4 | 269.0 |         | 50,300  | 20.6 | 285.6 |         | 47,900  | 24.5 | 305.4 |        | 44,300  | 340 |
| 350 | 9.6  | 224.8 |         | 37,500  | 14.6 | 252.5 |         | 44,600  | 19.8 | 279.9 |        | 41,100  | 350 |
| 360 |      |       |         |         |      |       |         |         | 13.5 | 244.7 |        | 38,100  | 360 |
| 370 |      |       |         |         |      |       |         |         |      |       |        |         | 370 |
| 380 |      |       |         |         |      |       |         |         |      |       |        |         | 380 |

# MLC650 VPC-MAX S-1

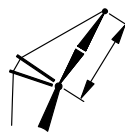
ASME B30.5



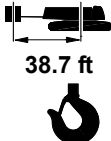
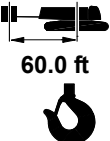
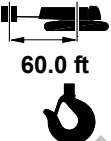
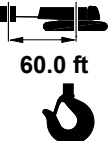
440,900 lb



164.0 ft

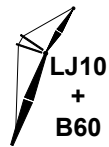


331.4 ft

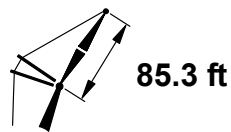
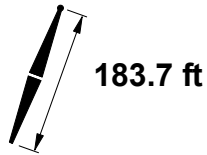
|                                                                                      |  75° |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |  70° |                                                                                      |                                                                                                                                                                                     |                                                                                       |  65° |                                                                                                                                                                                       |                                                                                        |  |  |
|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|--|--|
|  ft |  °   |  ft |  38.7 ft<br> lb |  60.0 ft<br> lb |  °   |  ft |  60.0 ft<br> lb |  ° |  ft  |  60.0 ft<br> lb |  ft |  |  |
| 115                                                                                  |                                                                                       |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                      |                                                                                                                                                                                     |                                                                                       |                                                                                         |                                                                                                                                                                                       | 115                                                                                    |  |  |
| 120                                                                                  |                                                                                       |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                      |                                                                                                                                                                                     |                                                                                       |                                                                                         |                                                                                                                                                                                       | 120                                                                                    |  |  |
| 125                                                                                  |                                                                                       |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                      |                                                                                                                                                                                     |                                                                                       |                                                                                         |                                                                                                                                                                                       | 125                                                                                    |  |  |
| 130                                                                                  |                                                                                       |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                      |                                                                                                                                                                                     |                                                                                       |                                                                                         |                                                                                                                                                                                       | 130                                                                                    |  |  |
| 135                                                                                  |                                                                                       |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                      |                                                                                                                                                                                     |                                                                                       |                                                                                         |                                                                                                                                                                                       | 135                                                                                    |  |  |
| 140                                                                                  |                                                                                       |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                      |                                                                                                                                                                                     |                                                                                       |                                                                                         |                                                                                                                                                                                       | 140                                                                                    |  |  |
| 145                                                                                  |                                                                                       |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                      |                                                                                                                                                                                     |                                                                                       |                                                                                         |                                                                                                                                                                                       | 145                                                                                    |  |  |
| 150                                                                                  |                                                                                       |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                      |                                                                                                                                                                                     |                                                                                       |                                                                                         |                                                                                                                                                                                       | 150                                                                                    |  |  |
| 155                                                                                  |                                                                                       |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                      |                                                                                                                                                                                     |                                                                                       |                                                                                         |                                                                                                                                                                                       | 155                                                                                    |  |  |
| 160                                                                                  |                                                                                       |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                      |                                                                                                                                                                                     |                                                                                       |                                                                                         |                                                                                                                                                                                       | 160                                                                                    |  |  |
| 165                                                                                  |                                                                                       |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                      |                                                                                                                                                                                     |                                                                                       |                                                                                         |                                                                                                                                                                                       | 165                                                                                    |  |  |
| 170                                                                                  |                                                                                       |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                      |                                                                                                                                                                                     |                                                                                       |                                                                                         |                                                                                                                                                                                       | 170                                                                                    |  |  |
| 175                                                                                  |                                                                                       |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                      |                                                                                                                                                                                     |                                                                                       |                                                                                         |                                                                                                                                                                                       | 175                                                                                    |  |  |
| 180                                                                                  |                                                                                       |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                      |                                                                                                                                                                                     |                                                                                       |                                                                                         |                                                                                                                                                                                       | 180                                                                                    |  |  |
| 185                                                                                  |                                                                                       |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                      |                                                                                                                                                                                     |                                                                                       |                                                                                         |                                                                                                                                                                                       | 185                                                                                    |  |  |
| 190                                                                                  |                                                                                       |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                      |                                                                                                                                                                                     |                                                                                       |                                                                                         |                                                                                                                                                                                       | 190                                                                                    |  |  |
| 195                                                                                  | 65.0                                                                                  | 466.7                                                                                | 43,600                                                                                                                                                                            | 97,300                                                                                                                                                                            |                                                                                       |                                                                                      |                                                                                                                                                                                     |                                                                                       |                                                                                         |                                                                                                                                                                                       | 195                                                                                    |  |  |
| 200                                                                                  | 64.0                                                                                  | 464.2                                                                                | 40,500                                                                                                                                                                            | 97,300                                                                                                                                                                            |                                                                                       |                                                                                      |                                                                                                                                                                                     |                                                                                       |                                                                                         |                                                                                                                                                                                       | 200                                                                                    |  |  |
| 205                                                                                  | 63.0                                                                                  | 461.7                                                                                | 37,500                                                                                                                                                                            | 97,300                                                                                                                                                                            |                                                                                       |                                                                                      |                                                                                                                                                                                     |                                                                                       |                                                                                         |                                                                                                                                                                                       | 205                                                                                    |  |  |
| 210                                                                                  | 62.0                                                                                  | 459.0                                                                                | 34,700                                                                                                                                                                            | 97,300                                                                                                                                                                            |                                                                                       |                                                                                      |                                                                                                                                                                                     |                                                                                       |                                                                                         |                                                                                                                                                                                       | 210                                                                                    |  |  |
| 215                                                                                  | 61.0                                                                                  | 456.2                                                                                | 31,900                                                                                                                                                                            | 97,200                                                                                                                                                                            |                                                                                       |                                                                                      |                                                                                                                                                                                     |                                                                                       |                                                                                         |                                                                                                                                                                                       | 215                                                                                    |  |  |
| 220                                                                                  | 60.0                                                                                  | 453.3                                                                                | 29,400                                                                                                                                                                            | 93,800                                                                                                                                                                            |                                                                                       |                                                                                      |                                                                                                                                                                                     |                                                                                       |                                                                                         |                                                                                                                                                                                       | 220                                                                                    |  |  |
| 225                                                                                  | 59.0                                                                                  | 450.2                                                                                | 26,900                                                                                                                                                                            | 90,300                                                                                                                                                                            |                                                                                       |                                                                                      |                                                                                                                                                                                     |                                                                                       |                                                                                         |                                                                                                                                                                                       | 225                                                                                    |  |  |
| 230                                                                                  | 58.0                                                                                  | 447.1                                                                                | 24,500                                                                                                                                                                            | 86,900                                                                                                                                                                            |                                                                                       |                                                                                      |                                                                                                                                                                                     |                                                                                       |                                                                                         |                                                                                                                                                                                       | 230                                                                                    |  |  |
| 240                                                                                  | 55.9                                                                                  | 440.4                                                                                | 20,100                                                                                                                                                                            | 80,700                                                                                                                                                                            | 58.8                                                                                  | 444.8                                                                                | 72,200                                                                                                                                                                              |                                                                                       |                                                                                         |                                                                                                                                                                                       | 240                                                                                    |  |  |
| 250                                                                                  | 53.8                                                                                  | 433.1                                                                                |                                                                                                                                                                                   | 74,900                                                                                                                                                                            | 56.7                                                                                  | 438.3                                                                                | 66,800                                                                                                                                                                              |                                                                                       |                                                                                         |                                                                                                                                                                                       | 250                                                                                    |  |  |
| 260                                                                                  | 51.6                                                                                  | 425.3                                                                                |                                                                                                                                                                                   | 69,600                                                                                                                                                                            | 54.6                                                                                  | 431.2                                                                                | 61,800                                                                                                                                                                              |                                                                                       |                                                                                         |                                                                                                                                                                                       | 260                                                                                    |  |  |
| 270                                                                                  | 49.3                                                                                  | 416.8                                                                                |                                                                                                                                                                                   | 64,700                                                                                                                                                                            | 52.4                                                                                  | 423.6                                                                                | 57,200                                                                                                                                                                              |                                                                                       |                                                                                         |                                                                                                                                                                                       | 270                                                                                    |  |  |
| 280                                                                                  | 47.0                                                                                  | 407.6                                                                                |                                                                                                                                                                                   | 60,100                                                                                                                                                                            | 50.2                                                                                  | 415.4                                                                                | 52,900                                                                                                                                                                              | 53.1                                                                                  | 420.3                                                                                   | 45,900                                                                                                                                                                                | 280                                                                                    |  |  |
| 290                                                                                  | 44.5                                                                                  | 397.6                                                                                |                                                                                                                                                                                   | 55,900                                                                                                                                                                            | 47.8                                                                                  | 406.5                                                                                | 48,900                                                                                                                                                                              | 50.9                                                                                  | 412.3                                                                                   | 42,200                                                                                                                                                                                | 290                                                                                    |  |  |
| 300                                                                                  | 42.0                                                                                  | 386.7                                                                                |                                                                                                                                                                                   | 51,900                                                                                                                                                                            | 45.4                                                                                  | 396.8                                                                                | 45,200                                                                                                                                                                              | 48.6                                                                                  | 403.6                                                                                   | 38,700                                                                                                                                                                                | 300                                                                                    |  |  |
| 310                                                                                  | 39.3                                                                                  | 374.7                                                                                |                                                                                                                                                                                   | 48,200                                                                                                                                                                            | 42.9                                                                                  | 386.2                                                                                | 41,700                                                                                                                                                                              | 46.2                                                                                  | 394.2                                                                                   | 35,500                                                                                                                                                                                | 310                                                                                    |  |  |
| 320                                                                                  | 36.4                                                                                  | 361.5                                                                                |                                                                                                                                                                                   | 44,700                                                                                                                                                                            | 40.3                                                                                  | 374.6                                                                                | 38,500                                                                                                                                                                              | 43.7                                                                                  | 383.9                                                                                   | 32,400                                                                                                                                                                                | 320                                                                                    |  |  |
| 330                                                                                  | 33.3                                                                                  | 346.7                                                                                |                                                                                                                                                                                   | 41,400                                                                                                                                                                            | 37.5                                                                                  | 361.9                                                                                | 35,400                                                                                                                                                                              | 41.1                                                                                  | 372.6                                                                                   | 29,500                                                                                                                                                                                | 330                                                                                    |  |  |
| 340                                                                                  | 30.0                                                                                  | 330.0                                                                                |                                                                                                                                                                                   | 38,300                                                                                                                                                                            | 34.5                                                                                  | 347.7                                                                                | 32,500                                                                                                                                                                              | 38.4                                                                                  | 360.3                                                                                   | 26,800                                                                                                                                                                                | 340                                                                                    |  |  |
| 350                                                                                  | 26.2                                                                                  | 310.6                                                                                |                                                                                                                                                                                   | 35,400                                                                                                                                                                            | 31.2                                                                                  | 331.7                                                                                | 29,700                                                                                                                                                                              | 35.4                                                                                  | 346.6                                                                                   | 23,900                                                                                                                                                                                | 350                                                                                    |  |  |
| 360                                                                                  | 21.8                                                                                  | 287.3                                                                                |                                                                                                                                                                                   | 32,600                                                                                                                                                                            | 27.6                                                                                  | 313.4                                                                                | 27,100                                                                                                                                                                              | 32.3                                                                                  | 331.2                                                                                   | 21,000                                                                                                                                                                                | 360                                                                                    |  |  |
| 370                                                                                  | 16.3                                                                                  | 257.1                                                                                |                                                                                                                                                                                   | 29,900                                                                                                                                                                            | 23.5                                                                                  | 291.8                                                                                | 24,600                                                                                                                                                                              |                                                                                       |                                                                                         |                                                                                                                                                                                       | 370                                                                                    |  |  |
| 380                                                                                  | 7.2                                                                                   | 205.5                                                                                |                                                                                                                                                                                   | 27,100                                                                                                                                                                            | 18.5                                                                                  | 264.6                                                                                | 22,200                                                                                                                                                                              |                                                                                       |                                                                                         |                                                                                                                                                                                       | 380                                                                                    |  |  |

# MLC650 VPC-MAX S-1

ASME B30.5



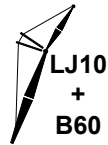
440,900 lb



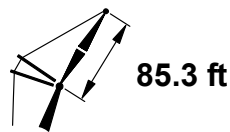
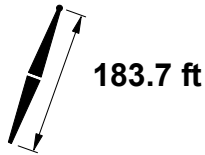
|     | 85°  |       |           |           | 83°  |       |           |           | 80°  |       |           |           |     |
|-----|------|-------|-----------|-----------|------|-------|-----------|-----------|------|-------|-----------|-----------|-----|
|     |      |       |           |           |      |       |           |           |      |       |           |           |     |
| ft  | °    | ft    | lb        | lb        | °    | ft    | lb        | lb        | °    | ft    | lb        | lb        | ft  |
| 55  | 71.9 | 273.2 | 454,700 c | 744,800 c |      |       |           |           |      |       |           |           | 55  |
| 60  | 68.2 | 271.1 | 409,500 c | 691,700 c | 72.9 | 273.0 | 391,800 c | 677,200 c |      |       |           |           | 60  |
| 65  | 64.5 | 268.6 | 371,700 c | 626,100 c | 69.3 | 270.9 | 355,600 c | 612,900 c |      |       |           |           | 65  |
| 70  | 60.6 | 265.7 | 339,700 b | 571,300 b | 65.5 | 268.5 | 324,900 b | 559,300 b |      |       |           |           | 70  |
| 75  | 56.5 | 262.2 | 312,200 b | 525,000 b | 61.7 | 265.7 | 298,500 b | 513,900 b | 68.9 | 269.1 | 277,900 b | 497,400 b | 75  |
| 80  | 52.2 | 258.2 | 288,200   | 485,200   | 57.7 | 262.4 | 275,500 b | 474,900 b | 65.2 | 266.7 | 256,400 b | 459,600 b | 80  |
| 85  | 47.6 | 253.6 | 267,200   | 450,600   | 53.5 | 258.6 | 255,400   | 441,100   | 61.3 | 263.8 | 237,600 b | 426,800 b | 85  |
| 90  | 42.6 | 248.0 | 248,500   | 420,300   | 49.0 | 254.2 | 237,500   | 411,400   | 57.3 | 260.5 | 220,900 b | 398,100 b | 90  |
| 95  | 37.1 | 241.4 | 231,700   | 393,500   | 44.1 | 248.9 | 221,500   | 385,200   | 53.0 | 256.6 | 206,000   | 372,800   | 95  |
| 100 | 30.5 | 233.0 | 216,500   | 369,600   | 38.7 | 242.6 | 207,100   | 361,900   | 48.5 | 252.1 | 192,600   | 350,200   | 100 |
| 105 | 22.0 | 221.4 | 202,500   | 348,100   | 32.4 | 234.8 | 193,900   | 340,900   | 43.6 | 246.7 | 180,400   | 329,900   | 105 |
| 110 |      |       |           |           | 24.7 | 224.3 | 181,800   | 321,900   | 38.1 | 240.3 | 169,300   | 311,600   | 110 |
| 115 |      |       |           |           | 12.0 | 206.1 | 169,900   | 304,300   | 31.8 | 232.3 | 159,000   | 295,000   | 115 |
| 120 |      |       |           |           |      |       |           |           | 23.8 | 221.5 | 149,300   | 279,700   | 120 |
| 125 |      |       |           |           |      |       |           |           | 9.6  | 201.0 | 139,600   | 265,300   | 125 |
| 130 |      |       |           |           |      |       |           |           |      |       |           |           | 130 |
| 135 |      |       |           |           |      |       |           |           |      |       |           |           | 135 |
| 140 |      |       |           |           |      |       |           |           |      |       |           |           | 140 |
| 145 |      |       |           |           |      |       |           |           |      |       |           |           | 145 |
| 150 |      |       |           |           |      |       |           |           |      |       |           |           | 150 |
| 155 |      |       |           |           |      |       |           |           |      |       |           |           | 155 |
| 160 |      |       |           |           |      |       |           |           |      |       |           |           | 160 |
| 165 |      |       |           |           |      |       |           |           |      |       |           |           | 165 |
| 170 |      |       |           |           |      |       |           |           |      |       |           |           | 170 |

# MLC650 VPC-MAX S-1

ASME B30.5



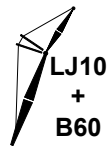
440,900 lb



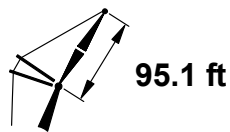
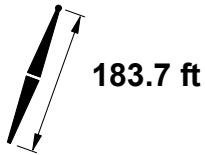
|     | 75°  |       |           |           | 70°  |       |         |         | 65°  |       |        |         |     |
|-----|------|-------|-----------|-----------|------|-------|---------|---------|------|-------|--------|---------|-----|
|     |      |       |           |           |      |       |         |         |      |       |        |         |     |
| ft  | °    | ft    | lb        | lb        | °    | ft    | lb      | lb      | °    | ft    | lb     | lb      | ft  |
| 55  |      |       |           |           |      |       |         |         |      |       |        |         | 55  |
| 60  |      |       |           |           |      |       |         |         |      |       |        |         | 60  |
| 65  |      |       |           |           |      |       |         |         |      |       |        |         | 65  |
| 70  |      |       |           |           |      |       |         |         |      |       |        |         | 70  |
| 75  |      |       |           |           |      |       |         |         |      |       |        |         | 75  |
| 80  |      |       |           |           |      |       |         |         |      |       |        |         | 80  |
| 85  |      |       |           |           |      |       |         |         |      |       |        |         | 85  |
| 90  |      |       |           |           |      |       |         |         |      |       |        |         | 90  |
| 95  |      |       |           |           |      |       |         |         |      |       |        |         | 95  |
| 100 | 61.8 | 260.5 | 168,100 b | 330,900 b |      |       |         |         |      |       |        |         | 100 |
| 105 | 57.8 | 257.2 | 157,400 b | 311,700 b |      |       |         |         |      |       |        |         | 105 |
| 110 | 53.6 | 253.4 | 147,600   | 294,400   |      |       |         |         |      |       |        |         | 110 |
| 115 | 49.1 | 249.0 | 138,700   | 278,800   |      |       |         |         |      |       |        |         | 115 |
| 120 | 44.2 | 243.7 | 130,400   | 264,500   | 58.0 | 252.3 | 110,900 | 249,200 |      |       |        |         | 120 |
| 125 | 38.9 | 237.5 | 122,800   | 251,400   | 53.8 | 248.5 | 104,300 | 236,900 |      |       |        |         | 125 |
| 130 | 32.7 | 229.7 | 115,600   | 239,300   | 49.3 | 244.1 | 98,100  | 225,500 |      |       |        |         | 130 |
| 135 | 25.0 | 219.4 | 108,700   | 228,000   | 44.5 | 238.9 | 92,400  | 215,100 |      |       |        |         | 135 |
| 140 | 12.6 | 201.7 | 101,700   | 217,300   | 39.1 | 232.7 | 87,000  | 205,300 | 53.6 | 241.9 | 71,100 | 193,000 | 140 |
| 145 |      |       |           |           | 33.0 | 225.0 | 81,800  | 196,200 | 49.1 | 237.4 | 66,700 | 184,500 | 145 |
| 150 |      |       |           |           | 25.4 | 214.9 | 76,800  | 187,700 | 44.2 | 232.2 | 62,600 | 176,600 | 150 |
| 155 |      |       |           |           | 13.6 | 198.0 | 71,600  | 179,400 | 38.8 | 225.9 | 58,700 | 169,200 | 155 |
| 160 |      |       |           |           |      |       |         |         | 32.7 | 218.2 | 54,900 | 162,100 | 160 |
| 165 |      |       |           |           |      |       |         |         | 24.9 | 207.8 | 51,200 | 155,500 | 165 |
| 170 |      |       |           |           |      |       |         |         | 12.6 | 190.2 | 47,100 | 148,900 | 170 |

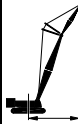
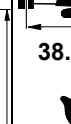
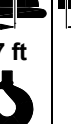
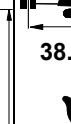
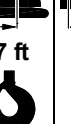
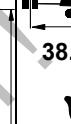
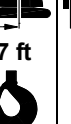
# MLC650 VPC-MAX S-1

ASME B30.5



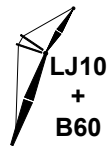
440,900 lb



|     |  85° |                                                                                     |                                                                                      |                                                                                                 |                                                                                                 |  83° |                                                                                      |                                                                                                 |                                                                                                 |                                                                                      |  80° |                                                                                                   |                                                                                                   |                                                                                        |     |  |
|-----|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-----|--|
|     |  ft   |  ° |  ft |  38.7 ft<br>lb |  60.0 ft<br>lb |  °   |  ft |  38.7 ft<br>lb |  60.0 ft<br>lb |  ° |  ft  |  38.7 ft<br>lb |  60.0 ft<br>lb |  ft |     |  |
| 55  | 73.8                                                                                  | 283.7                                                                               | 452,200 c                                                                            | 734,200 c                                                                                       |                                                                                                 |                                                                                       |                                                                                      |                                                                                                 |                                                                                                 |                                                                                      |                                                                                         |                                                                                                   |                                                                                                   |                                                                                        | 55  |  |
| 60  | 70.6                                                                                  | 281.8                                                                               | 407,100 c                                                                            | 684,900 c                                                                                       |                                                                                                 |                                                                                       |                                                                                      |                                                                                                 |                                                                                                 |                                                                                      |                                                                                         |                                                                                                   |                                                                                                   |                                                                                        | 60  |  |
| 65  | 67.3                                                                                  | 279.6                                                                               | 369,400 b                                                                            | 622,900 b                                                                                       | 71.5                                                                                            | 281.6                                                                                 | 352,800 b                                                                            | 609,500 b                                                                                       |                                                                                                 |                                                                                      |                                                                                         |                                                                                                   |                                                                                                   |                                                                                        | 65  |  |
| 70  | 64.0                                                                                  | 277.1                                                                               | 337,400 b                                                                            | 568,400 b                                                                                       | 68.3                                                                                            | 279.5                                                                                 | 322,200 b                                                                            | 556,200 b                                                                                       |                                                                                                 |                                                                                      |                                                                                         |                                                                                                   |                                                                                                   |                                                                                        | 70  |  |
| 75  | 60.5                                                                                  | 274.1                                                                               | 310,000 b                                                                            | 522,300 b                                                                                       | 64.9                                                                                            | 277.0                                                                                 | 295,900 b                                                                            | 511,000 b                                                                                       |                                                                                                 |                                                                                      |                                                                                         |                                                                                                   |                                                                                                   |                                                                                        | 75  |  |
| 80  | 56.8                                                                                  | 270.8                                                                               | 286,200                                                                              | 482,700                                                                                         | 61.5                                                                                            | 274.2                                                                                 | 273,100 b                                                                            | 472,200 b                                                                                       | 67.9                                                                                            | 277.7                                                                                | 253,500 b                                                                               | 456,600 b                                                                                         |                                                                                                   |                                                                                        | 80  |  |
| 85  | 53.0                                                                                  | 266.9                                                                               | 265,200                                                                              | 448,300                                                                                         | 57.9                                                                                            | 270.9                                                                                 | 253,100                                                                              | 438,600                                                                                         | 64.6                                                                                            | 275.2                                                                                | 234,800 b                                                                               | 424,000 b                                                                                         |                                                                                                   |                                                                                        | 85  |  |
| 90  | 49.0                                                                                  | 262.4                                                                               | 246,700                                                                              | 418,200                                                                                         | 54.1                                                                                            | 267.2                                                                                 | 235,300                                                                              | 409,100                                                                                         | 61.1                                                                                            | 272.3                                                                                | 218,200 b                                                                               | 395,500 b                                                                                         |                                                                                                   |                                                                                        | 90  |  |
| 95  | 44.7                                                                                  | 257.3                                                                               | 230,100                                                                              | 391,600                                                                                         | 50.2                                                                                            | 263.0                                                                                 | 219,500                                                                              | 383,000                                                                                         | 57.5                                                                                            | 269.0                                                                                | 203,500                                                                                 | 370,300                                                                                           |                                                                                                   |                                                                                        | 95  |  |
| 100 | 40.0                                                                                  | 251.3                                                                               | 215,200                                                                              | 367,800                                                                                         | 45.9                                                                                            | 258.0                                                                                 | 205,300                                                                              | 359,800                                                                                         | 53.7                                                                                            | 265.2                                                                                | 190,200                                                                                 | 347,800                                                                                           |                                                                                                   |                                                                                        | 100 |  |
| 105 | 34.7                                                                                  | 244.0                                                                               | 201,700                                                                              | 346,500                                                                                         | 41.3                                                                                            | 252.3                                                                                 | 192,300                                                                              | 339,000                                                                                         | 49.8                                                                                            | 260.9                                                                                | 178,200                                                                                 | 327,700                                                                                           |                                                                                                   |                                                                                        | 105 |  |
| 110 | 28.5                                                                                  | 235.0                                                                               | 189,200                                                                              | 327,300                                                                                         | 36.2                                                                                            | 245.4                                                                                 | 180,600                                                                              | 320,200                                                                                         | 45.5                                                                                            | 255.9                                                                                | 167,200                                                                                 | 309,500                                                                                           |                                                                                                   |                                                                                        | 110 |  |
| 115 | 20.4                                                                                  | 222.5                                                                               | 177,600                                                                              | 309,700                                                                                         | 30.3                                                                                            | 237.0                                                                                 | 169,700                                                                              | 303,100                                                                                         | 40.9                                                                                            | 250.1                                                                                | 157,200                                                                                 | 293,100                                                                                           |                                                                                                   |                                                                                        | 115 |  |
| 120 |                                                                                       |                                                                                     |                                                                                      |                                                                                                 | 22.9                                                                                            | 225.7                                                                                 | 159,500                                                                              | 287,500                                                                                         | 35.7                                                                                            | 243.1                                                                                | 147,900                                                                                 | 278,000                                                                                           |                                                                                                   |                                                                                        | 120 |  |
| 125 |                                                                                       |                                                                                     |                                                                                      |                                                                                                 | 10.5                                                                                            | 205.7                                                                                 | 149,400                                                                              | 272,800                                                                                         | 29.7                                                                                            | 234.4                                                                                | 139,300                                                                                 | 264,200                                                                                           |                                                                                                   |                                                                                        | 125 |  |
| 130 |                                                                                       |                                                                                     |                                                                                      |                                                                                                 |                                                                                                 |                                                                                       |                                                                                      |                                                                                                 |                                                                                                 | 22.1                                                                                 | 222.8                                                                                   | 131,100                                                                                           | 251,400                                                                                           |                                                                                        | 130 |  |
| 135 |                                                                                       |                                                                                     |                                                                                      |                                                                                                 |                                                                                                 |                                                                                       |                                                                                      |                                                                                                 |                                                                                                 | 7.9                                                                                  | 199.9                                                                                   | 122,600                                                                                           | 239,200                                                                                           |                                                                                        | 135 |  |
| 140 |                                                                                       |                                                                                     |                                                                                      |                                                                                                 |                                                                                                 |                                                                                       |                                                                                      |                                                                                                 |                                                                                                 |                                                                                      |                                                                                         |                                                                                                   |                                                                                                   |                                                                                        | 140 |  |
| 145 |                                                                                       |                                                                                     |                                                                                      |                                                                                                 |                                                                                                 |                                                                                       |                                                                                      |                                                                                                 |                                                                                                 |                                                                                      |                                                                                         |                                                                                                   |                                                                                                   |                                                                                        | 145 |  |
| 150 |                                                                                       |                                                                                     |                                                                                      |                                                                                                 |                                                                                                 |                                                                                       |                                                                                      |                                                                                                 |                                                                                                 |                                                                                      |                                                                                         |                                                                                                   |                                                                                                   |                                                                                        | 150 |  |
| 155 |                                                                                       |                                                                                     |                                                                                      |                                                                                                 |                                                                                                 |                                                                                       |                                                                                      |                                                                                                 |                                                                                                 |                                                                                      |                                                                                         |                                                                                                   |                                                                                                   |                                                                                        | 155 |  |
| 160 |                                                                                       |                                                                                     |                                                                                      |                                                                                                 |                                                                                                 |                                                                                       |                                                                                      |                                                                                                 |                                                                                                 |                                                                                      |                                                                                         |                                                                                                   |                                                                                                   |                                                                                        | 160 |  |
| 165 |                                                                                       |                                                                                     |                                                                                      |                                                                                                 |                                                                                                 |                                                                                       |                                                                                      |                                                                                                 |                                                                                                 |                                                                                      |                                                                                         |                                                                                                   |                                                                                                   |                                                                                        | 165 |  |
| 170 |                                                                                       |                                                                                     |                                                                                      |                                                                                                 |                                                                                                 |                                                                                       |                                                                                      |                                                                                                 |                                                                                                 |                                                                                      |                                                                                         |                                                                                                   |                                                                                                   |                                                                                        | 170 |  |
| 175 |                                                                                       |                                                                                     |                                                                                      |                                                                                                 |                                                                                                 |                                                                                       |                                                                                      |                                                                                                 |                                                                                                 |                                                                                      |                                                                                         |                                                                                                   |                                                                                                   |                                                                                        | 175 |  |
| 180 |                                                                                       |                                                                                     |                                                                                      |                                                                                                 |                                                                                                 |                                                                                       |                                                                                      |                                                                                                 |                                                                                                 |                                                                                      |                                                                                         |                                                                                                   |                                                                                                   |                                                                                        | 180 |  |

# MLC650 VPC-MAX S-1

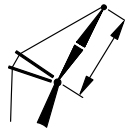
ASME B30.5



440,900 lb



183.7 ft

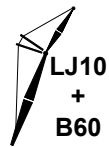


95.1 ft

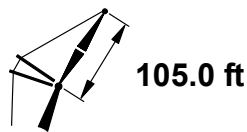
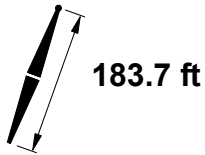
|     | 75° |    |    |    | 70° |    |    |    | 65° |    |    |    |     |
|-----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|
|     |     |    |    |    |     |    |    |    |     |    |    |    |     |
| ft  | °   | ft | lb | lb | °   | ft | lb | lb | °   | ft | lb | lb | ft  |
| 55  |     |    |    |    |     |    |    |    |     |    |    |    | 55  |
| 60  |     |    |    |    |     |    |    |    |     |    |    |    | 60  |
| 65  |     |    |    |    |     |    |    |    |     |    |    |    | 65  |
| 70  |     |    |    |    |     |    |    |    |     |    |    |    | 70  |
| 75  |     |    |    |    |     |    |    |    |     |    |    |    | 75  |
| 80  |     |    |    |    |     |    |    |    |     |    |    |    | 80  |
| 85  |     |    |    |    |     |    |    |    |     |    |    |    | 85  |
| 90  |     |    |    |    |     |    |    |    |     |    |    |    | 90  |
| 95  |     |    |    |    |     |    |    |    |     |    |    |    | 95  |
| 100 |     |    |    |    |     |    |    |    |     |    |    |    | 100 |
| 105 |     |    |    |    |     |    |    |    |     |    |    |    | 105 |
| 110 |     |    |    |    |     |    |    |    |     |    |    |    | 110 |
| 115 |     |    |    |    |     |    |    |    |     |    |    |    | 115 |
| 120 |     |    |    |    |     |    |    |    |     |    |    |    | 120 |
| 125 |     |    |    |    |     |    |    |    |     |    |    |    | 125 |
| 130 |     |    |    |    |     |    |    |    |     |    |    |    | 130 |
| 135 |     |    |    |    |     |    |    |    |     |    |    |    | 135 |
| 140 |     |    |    |    |     |    |    |    |     |    |    |    | 140 |
| 145 |     |    |    |    |     |    |    |    |     |    |    |    | 145 |
| 150 |     |    |    |    |     |    |    |    |     |    |    |    | 150 |
| 155 |     |    |    |    |     |    |    |    |     |    |    |    | 155 |
| 160 |     |    |    |    |     |    |    |    |     |    |    |    | 160 |
| 165 |     |    |    |    |     |    |    |    |     |    |    |    | 165 |
| 170 |     |    |    |    |     |    |    |    |     |    |    |    | 170 |
| 175 |     |    |    |    |     |    |    |    |     |    |    |    | 175 |
| 180 |     |    |    |    |     |    |    |    |     |    |    |    | 180 |

# MLC650 VPC-MAX S-1

ASME B30.5



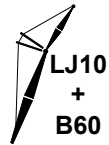
440,900 lb



|     | 85°  |       |           |           | 83°  |       |           |           | 80°  |       |           |           |     |
|-----|------|-------|-----------|-----------|------|-------|-----------|-----------|------|-------|-----------|-----------|-----|
|     |      |       |           |           |      |       |           |           |      |       |           |           |     |
| ft  | °    | ft    | lb        | lb        | °    | ft    | lb        | lb        | °    | ft    | lb        | lb        | ft  |
| 60  | 72.5 | 292.3 | 405,800 b | 674,400 b |      |       |           |           |      |       |           |           | 60  |
| 65  | 69.6 | 290.4 | 368,200 b | 620,500 b |      |       |           |           |      |       |           |           | 65  |
| 70  | 66.6 | 288.1 | 336,300 b | 566,300 b | 70.4 | 290.2 | 320,800 b | 553,900 b |      |       |           |           | 70  |
| 75  | 63.5 | 285.5 | 308,900 b | 520,400 b | 67.4 | 288.0 | 294,600 b | 509,000 b |      |       |           |           | 75  |
| 80  | 60.4 | 282.6 | 285,200   | 481,000   | 64.4 | 285.5 | 271,800 b | 470,400 b |      |       |           |           | 80  |
| 85  | 57.1 | 279.3 | 264,300   | 446,800   | 61.3 | 282.7 | 251,900   | 436,900   | 67.2 | 286.2 | 233,300 b | 422,200 b | 85  |
| 90  | 53.7 | 275.5 | 245,900   | 416,800   | 58.0 | 279.4 | 234,200   | 407,500   | 64.1 | 283.7 | 216,800   | 393,800   | 90  |
| 95  | 50.1 | 271.2 | 229,400   | 390,300   | 54.6 | 275.8 | 218,500   | 381,600   | 61.0 | 280.8 | 202,100   | 368,700   | 95  |
| 100 | 46.3 | 266.4 | 214,700   | 366,700   | 51.1 | 271.7 | 204,400   | 358,500   | 57.7 | 277.5 | 188,900   | 346,300   | 100 |
| 105 | 42.2 | 260.8 | 201,300   | 345,600   | 47.4 | 267.0 | 191,600   | 337,800   | 54.3 | 273.8 | 177,000   | 326,300   | 105 |
| 110 | 37.7 | 254.3 | 189,100   | 326,500   | 43.4 | 261.6 | 180,000   | 319,200   | 50.8 | 269.7 | 166,200   | 308,300   | 110 |
| 115 | 32.7 | 246.5 | 177,900   | 309,200   | 39.0 | 255.4 | 169,300   | 302,300   | 47.0 | 264.9 | 156,300   | 291,900   | 115 |
| 120 | 26.7 | 236.8 | 167,600   | 293,300   | 34.2 | 248.0 | 159,500   | 286,800   | 43.0 | 259.5 | 147,200   | 277,000   | 120 |
| 125 | 18.9 | 223.4 | 157,800   | 278,700   | 28.5 | 239.0 | 150,400   | 272,600   | 38.6 | 253.1 | 138,800   | 263,300   | 125 |
| 130 |      |       |           |           | 21.4 | 226.9 | 141,800   | 259,500   | 33.7 | 245.6 | 131,000   | 250,800   | 130 |
| 135 |      |       |           |           | 9.1  | 205.0 | 133,100   | 247,200   | 27.9 | 236.4 | 123,600   | 239,100   | 135 |
| 140 |      |       |           |           |      |       |           |           | 20.6 | 223.9 | 116,500   | 228,300   | 140 |
| 145 |      |       |           |           |      |       |           |           | 6.2  | 198.2 | 109,100   | 217,800   | 145 |
| 150 |      |       |           |           |      |       |           |           |      |       |           |           | 150 |
| 155 |      |       |           |           |      |       |           |           |      |       |           |           | 155 |
| 160 |      |       |           |           |      |       |           |           |      |       |           |           | 160 |
| 165 |      |       |           |           |      |       |           |           |      |       |           |           | 165 |
| 170 |      |       |           |           |      |       |           |           |      |       |           |           | 170 |
| 175 |      |       |           |           |      |       |           |           |      |       |           |           | 175 |
| 180 |      |       |           |           |      |       |           |           |      |       |           |           | 180 |
| 185 |      |       |           |           |      |       |           |           |      |       |           |           | 185 |
| 190 |      |       |           |           |      |       |           |           |      |       |           |           | 190 |

# MLC650 VPC-MAX S-1

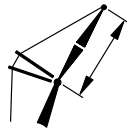
ASME B30.5



440,900 lb



183.7 ft

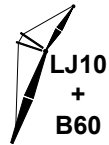


105.0 ft

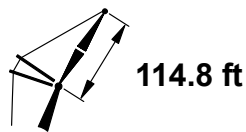
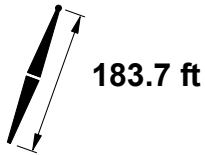
|     | 75°  |       |         |         | 70°  |       |        |         | 65°  |       |        |         |     |
|-----|------|-------|---------|---------|------|-------|--------|---------|------|-------|--------|---------|-----|
|     |      |       |         |         |      |       |        |         |      |       |        |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb     | lb      | °    | ft    | lb     | lb      | ft  |
| 60  |      |       |         |         |      |       |        |         |      |       |        |         | 60  |
| 65  |      |       |         |         |      |       |        |         |      |       |        |         | 65  |
| 70  |      |       |         |         |      |       |        |         |      |       |        |         | 70  |
| 75  |      |       |         |         |      |       |        |         |      |       |        |         | 75  |
| 80  |      |       |         |         |      |       |        |         |      |       |        |         | 80  |
| 85  |      |       |         |         |      |       |        |         |      |       |        |         | 85  |
| 90  |      |       |         |         |      |       |        |         |      |       |        |         | 90  |
| 95  |      |       |         |         |      |       |        |         |      |       |        |         | 95  |
| 100 |      |       |         |         |      |       |        |         |      |       |        |         | 100 |
| 105 | 64.5 | 280.2 | 152,700 | 307,400 |      |       |        |         |      |       |        |         | 105 |
| 110 | 61.4 | 277.4 | 143,200 | 290,300 |      |       |        |         |      |       |        |         | 110 |
| 115 | 58.1 | 274.2 | 134,400 | 274,800 |      |       |        |         |      |       |        |         | 115 |
| 120 | 54.8 | 270.6 | 126,400 | 260,800 |      |       |        |         |      |       |        |         | 120 |
| 125 | 51.2 | 266.5 | 119,100 | 247,900 |      |       |        |         |      |       |        |         | 125 |
| 130 | 47.5 | 261.8 | 112,200 | 236,000 | 58.3 | 269.3 | 93,500 | 221,500 |      |       |        |         | 130 |
| 135 | 43.5 | 256.4 | 105,900 | 225,100 | 54.9 | 265.7 | 88,000 | 211,200 |      |       |        |         | 135 |
| 140 | 39.2 | 250.2 | 99,900  | 215,000 | 51.4 | 261.6 | 82,800 | 201,700 |      |       |        |         | 140 |
| 145 | 34.3 | 242.9 | 94,300  | 205,600 | 47.7 | 256.9 | 78,000 | 192,900 |      |       |        |         | 145 |
| 150 | 28.7 | 233.9 | 89,000  | 196,800 | 43.7 | 251.6 | 73,500 | 184,600 | 54.8 | 259.1 | 57,900 | 172,700 | 150 |
| 155 | 21.7 | 222.0 | 83,800  | 188,400 | 39.4 | 245.5 | 69,200 | 176,900 | 51.2 | 254.9 | 54,300 | 165,400 | 155 |
| 160 | 9.8  | 200.9 | 78,400  | 180,400 | 34.6 | 238.2 | 65,100 | 169,700 | 47.5 | 250.3 | 50,800 | 158,700 | 160 |
| 165 |      |       |         |         | 29.0 | 229.3 | 61,100 | 162,800 | 43.5 | 244.9 | 47,500 | 152,300 | 165 |
| 170 |      |       |         |         | 22.1 | 217.6 | 57,300 | 156,300 | 39.2 | 238.7 | 44,400 | 146,300 | 170 |
| 175 |      |       |         |         | 10.8 | 197.6 | 53,100 | 149,900 | 34.3 | 231.4 | 41,400 | 140,600 | 175 |
| 180 |      |       |         |         |      |       |        |         | 28.7 | 222.4 | 38,400 | 135,200 | 180 |
| 185 |      |       |         |         |      |       |        |         | 21.7 | 210.5 | 35,500 | 130,000 | 185 |
| 190 |      |       |         |         |      |       |        |         | 9.8  | 189.3 | 32,200 | 124,800 | 190 |

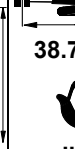
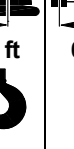
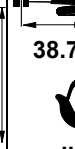
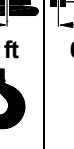
# MLC650 VPC-MAX S-1

ASME B30.5



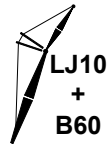
440,900 lb



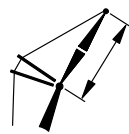
|     | 85°                                                                              |                                                                                   |                                                                                   |                                                                                   | 83°                                                                               |                                                                                   |                                                                                   |                                                                                   | 80°                                                                               |                                                                                   |                                                                                   |                                                                                    |     |
|-----|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----|
|     |  |  |  |  |  |  |  |  |  |  |  |  |     |
| ft  | °                                                                                | ft                                                                                | lb                                                                                | lb                                                                                | °                                                                                 | ft                                                                                | lb                                                                                | lb                                                                                | °                                                                                 | ft                                                                                | lb                                                                                | lb                                                                                 | ft  |
| 60  | 74.1                                                                             | 302.7                                                                             | 403,200 b                                                                         | 644,600 b                                                                         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 60  |
| 65  | 71.4                                                                             | 301.0                                                                             | 365,600 b                                                                         | 617,300 b                                                                         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 65  |
| 70  | 68.8                                                                             | 298.9                                                                             | 333,800 b                                                                         | 563,300 b                                                                         | 72.2                                                                              | 300.7                                                                             | 318,100 b                                                                         | 550,800 b                                                                         |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 70  |
| 75  | 66.0                                                                             | 296.6                                                                             | 306,500 b                                                                         | 517,600 b                                                                         | 69.5                                                                              | 298.7                                                                             | 291,900 b                                                                         | 506,000 b                                                                         |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 75  |
| 80  | 63.2                                                                             | 294.0                                                                             | 282,800                                                                           | 478,400                                                                           | 66.8                                                                              | 296.5                                                                             | 269,200                                                                           | 467,600                                                                           |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 80  |
| 85  | 60.3                                                                             | 291.1                                                                             | 262,000                                                                           | 444,300                                                                           | 64.0                                                                              | 294.0                                                                             | 249,300                                                                           | 434,200                                                                           | 69.2                                                                              | 297.0                                                                             | 230,300                                                                           | 419,300                                                                            | 85  |
| 90  | 57.3                                                                             | 287.8                                                                             | 243,700                                                                           | 414,400                                                                           | 61.1                                                                              | 291.1                                                                             | 231,800                                                                           | 405,000                                                                           | 66.5                                                                              | 294.7                                                                             | 213,900                                                                           | 391,000                                                                            | 90  |
| 95  | 54.2                                                                             | 284.1                                                                             | 227,300                                                                           | 388,100                                                                           | 58.2                                                                              | 287.9                                                                             | 216,100                                                                           | 379,200                                                                           | 63.7                                                                              | 292.1                                                                             | 199,300                                                                           | 366,000                                                                            | 95  |
| 100 | 51.0                                                                             | 279.9                                                                             | 212,600                                                                           | 364,600                                                                           | 55.1                                                                              | 284.4                                                                             | 202,000                                                                           | 356,200                                                                           | 60.8                                                                              | 289.2                                                                             | 186,200                                                                           | 343,800                                                                            | 100 |
| 105 | 47.6                                                                             | 275.3                                                                             | 199,300                                                                           | 343,500                                                                           | 51.9                                                                              | 280.4                                                                             | 189,300                                                                           | 335,600                                                                           | 57.9                                                                              | 286.0                                                                             | 174,400                                                                           | 323,900                                                                            | 105 |
| 110 | 44.0                                                                             | 270.0                                                                             | 187,300                                                                           | 324,500                                                                           | 48.5                                                                              | 275.8                                                                             | 177,800                                                                           | 317,100                                                                           | 54.8                                                                              | 282.4                                                                             | 163,600                                                                           | 305,900                                                                            | 110 |
| 115 | 40.1                                                                             | 264.0                                                                             | 176,200                                                                           | 307,300                                                                           | 45.0                                                                              | 270.8                                                                             | 167,300                                                                           | 300,200                                                                           | 51.6                                                                              | 278.3                                                                             | 153,800                                                                           | 289,700                                                                            | 115 |
| 120 | 35.8                                                                             | 257.1                                                                             | 166,100                                                                           | 291,600                                                                           | 41.2                                                                              | 265.0                                                                             | 157,600                                                                           | 284,900                                                                           | 48.2                                                                              | 273.8                                                                             | 144,800                                                                           | 274,800                                                                            | 120 |
| 125 | 31.0                                                                             | 248.8                                                                             | 156,700                                                                           | 277,200                                                                           | 37.0                                                                              | 258.3                                                                             | 148,700                                                                           | 270,900                                                                           | 44.6                                                                              | 268.7                                                                             | 136,500                                                                           | 261,300                                                                            | 125 |
| 130 | 25.3                                                                             | 238.5                                                                             | 147,900                                                                           | 264,000                                                                           | 32.4                                                                              | 250.5                                                                             | 140,400                                                                           | 257,900                                                                           | 40.8                                                                              | 262.8                                                                             | 128,900                                                                           | 248,800                                                                            | 130 |
| 135 | 17.7                                                                             | 224.2                                                                             | 139,500                                                                           | 251,700                                                                           | 27.0                                                                              | 240.8                                                                             | 132,600                                                                           | 246,000                                                                           | 36.6                                                                              | 256.0                                                                             | 121,700                                                                           | 237,300                                                                            | 135 |
| 140 |                                                                                  |                                                                                   |                                                                                   |                                                                                   | 20.1                                                                              | 228.0                                                                             | 125,200                                                                           | 234,800                                                                           | 31.9                                                                              | 248.0                                                                             | 115,000                                                                           | 226,600                                                                            | 140 |
| 145 |                                                                                  |                                                                                   |                                                                                   |                                                                                   | 7.8                                                                               | 204.0                                                                             | 117,500                                                                           | 224,200                                                                           | 26.4                                                                              | 238.2                                                                             | 108,600                                                                           | 216,700                                                                            | 145 |
| 150 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 19.3                                                                              | 224.9                                                                             | 102,500                                                                           | 207,300                                                                            | 150 |
| 155 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 4.2                                                                               | 195.1                                                                             | 95,800                                                                            | 198,100                                                                            | 155 |
| 160 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 160 |
| 165 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 165 |
| 170 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 170 |
| 175 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 175 |
| 180 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 180 |
| 185 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 185 |
| 190 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 190 |
| 195 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 195 |
| 200 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 200 |

# MLC650 VPC-MAX S-1

ASME B30.5



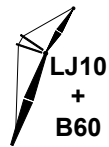
440,900 lb



|     | 75°  |       |         |         | 70°  |       |        |         | 65°  |       |        |         |     |
|-----|------|-------|---------|---------|------|-------|--------|---------|------|-------|--------|---------|-----|
|     |      |       |         |         |      |       |        |         |      |       |        |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb     | lb      | °    | ft    | lb     | lb      | ft  |
| 60  |      |       |         |         |      |       |        |         |      |       |        |         | 60  |
| 65  |      |       |         |         |      |       |        |         |      |       |        |         | 65  |
| 70  |      |       |         |         |      |       |        |         |      |       |        |         | 70  |
| 75  |      |       |         |         |      |       |        |         |      |       |        |         | 75  |
| 80  |      |       |         |         |      |       |        |         |      |       |        |         | 80  |
| 85  |      |       |         |         |      |       |        |         |      |       |        |         | 85  |
| 90  |      |       |         |         |      |       |        |         |      |       |        |         | 90  |
| 95  |      |       |         |         |      |       |        |         |      |       |        |         | 95  |
| 100 |      |       |         |         |      |       |        |         |      |       |        |         | 100 |
| 105 |      |       |         |         |      |       |        |         |      |       |        |         | 105 |
| 110 | 64.1 | 288.7 | 140,100 | 287,600 |      |       |        |         |      |       |        |         | 110 |
| 115 | 61.2 | 285.9 | 131,400 | 272,300 |      |       |        |         |      |       |        |         | 115 |
| 120 | 58.2 | 282.7 | 123,500 | 258,300 |      |       |        |         |      |       |        |         | 120 |
| 125 | 55.2 | 279.1 | 116,200 | 245,500 |      |       |        |         |      |       |        |         | 125 |
| 130 | 52.0 | 275.1 | 109,500 | 233,700 |      |       |        |         |      |       |        |         | 130 |
| 135 | 48.6 | 270.6 | 103,200 | 222,900 | 58.4 | 277.8 | 84,800 | 208,700 |      |       |        |         | 135 |
| 140 | 45.1 | 265.6 | 97,400  | 212,800 | 55.3 | 274.2 | 79,700 | 199,200 |      |       |        |         | 140 |
| 145 | 41.3 | 259.8 | 91,900  | 203,500 | 52.2 | 270.2 | 75,000 | 190,400 |      |       |        |         | 145 |
| 150 | 37.1 | 253.2 | 86,800  | 194,800 | 48.8 | 265.8 | 70,600 | 182,300 |      |       |        |         | 150 |
| 155 | 32.5 | 245.4 | 81,900  | 186,700 | 45.3 | 260.8 | 66,400 | 174,700 |      |       |        |         | 155 |
| 160 | 27.1 | 235.8 | 77,200  | 179,000 | 41.5 | 255.0 | 62,500 | 167,500 | 52.0 | 263.6 | 47,700 | 156,200 | 160 |
| 165 | 20.3 | 223.2 | 72,600  | 171,800 | 37.4 | 248.5 | 58,700 | 160,800 | 48.6 | 259.1 | 44,500 | 149,900 | 165 |
| 170 | 8.6  | 200.1 | 67,800  | 164,600 | 32.8 | 240.7 | 55,100 | 154,500 | 45.1 | 254.1 | 41,500 | 144,000 | 170 |
| 175 |      |       |         |         | 27.4 | 231.3 | 51,600 | 148,400 | 41.3 | 248.3 | 38,600 | 138,400 | 175 |
| 180 |      |       |         |         | 20.7 | 218.8 | 48,200 | 142,700 | 37.1 | 241.7 | 35,800 | 133,100 | 180 |
| 185 |      |       |         |         | 9.6  | 197.1 | 44,400 | 137,000 | 32.5 | 233.9 | 33,100 | 128,000 | 185 |
| 190 |      |       |         |         |      |       |        |         | 27.1 | 224.3 | 30,500 | 123,200 | 190 |
| 195 |      |       |         |         |      |       |        |         | 20.3 | 211.6 | 27,900 | 118,600 | 195 |
| 200 |      |       |         |         |      |       |        |         | 8.5  | 188.5 | 24,800 | 113,900 | 200 |

# MLC650 VPC-MAX S-1

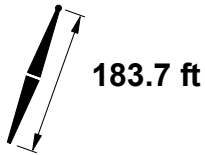
ASME B30.5



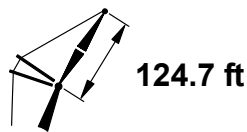
440,900 lb



360°



183.7 ft

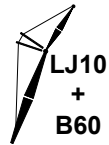


124.7 ft

|     | 85°  |       |           |           | 83°  |       |           |           | 80°  |       |         |         |     |
|-----|------|-------|-----------|-----------|------|-------|-----------|-----------|------|-------|---------|---------|-----|
|     |      |       |           |           |      |       |           |           |      |       |         |         |     |
| ft  | °    | ft    | lb        | lb        | °    | ft    | lb        | lb        | °    | ft    | lb      | lb      | ft  |
| 65  | 73.0 | 311.4 | 397,200 b | 592,700 b |      |       |           |           |      |       |         |         | 65  |
| 70  | 70.5 | 309.6 | 363,000 b | 562,300 b |      |       |           |           |      |       |         |         | 70  |
| 75  | 68.0 | 307.5 | 333,700   | 516,700   | 71.2 | 309.3 | 318,900 b | 505,100 b |      |       |         |         | 75  |
| 80  | 65.5 | 305.1 | 308,200   | 477,600   | 68.7 | 307.3 | 294,500   | 466,800   |      |       |         |         | 80  |
| 85  | 62.9 | 302.5 | 285,900   | 443,700   | 66.2 | 305.0 | 273,100   | 433,600   |      |       |         |         | 85  |
| 90  | 60.2 | 299.5 | 266,200   | 414,000   | 63.6 | 302.5 | 254,200   | 404,500   | 68.5 | 305.5 | 236,100 | 390,400 | 90  |
| 95  | 57.5 | 296.3 | 248,700   | 387,700   | 61.0 | 299.6 | 237,300   | 378,800   | 66.0 | 303.2 | 220,300 | 365,600 | 95  |
| 100 | 54.7 | 292.6 | 232,900   | 364,300   | 58.3 | 296.4 | 222,200   | 355,900   | 63.4 | 300.6 | 206,200 | 343,400 | 100 |
| 105 | 51.7 | 288.6 | 218,700   | 343,300   | 55.4 | 292.9 | 208,600   | 335,400   | 60.7 | 297.7 | 193,400 | 323,600 | 105 |
| 110 | 48.6 | 284.1 | 205,900   | 324,500   | 52.5 | 289.0 | 196,200   | 316,900   | 58.0 | 294.5 | 181,800 | 305,700 | 110 |
| 115 | 45.4 | 279.1 | 194,100   | 307,300   | 49.5 | 284.6 | 185,000   | 300,200   | 55.2 | 291.0 | 171,300 | 289,500 | 115 |
| 120 | 41.9 | 273.5 | 183,300   | 291,700   | 46.3 | 279.8 | 174,600   | 284,900   | 52.2 | 287.0 | 161,600 | 274,700 | 120 |
| 125 | 38.2 | 267.1 | 173,400   | 277,400   | 42.9 | 274.3 | 165,100   | 271,000   | 49.2 | 282.6 | 152,700 | 261,300 | 125 |
| 130 | 34.1 | 259.7 | 164,200   | 264,300   | 39.2 | 268.2 | 156,300   | 258,100   | 46.0 | 277.7 | 144,500 | 248,900 | 130 |
| 135 | 29.4 | 250.9 | 155,600   | 252,200   | 35.3 | 261.1 | 148,100   | 246,300   | 42.6 | 272.2 | 136,800 | 237,400 | 135 |
| 140 | 23.9 | 240.1 | 147,500   | 240,900   | 30.8 | 252.8 | 140,500   | 235,300   | 38.9 | 265.9 | 129,700 | 226,800 | 140 |
| 145 | 16.6 | 224.9 | 139,800   | 230,400   | 25.6 | 242.6 | 133,300   | 225,100   | 34.9 | 258.8 | 123,100 | 217,000 | 145 |
| 150 |      |       |           |           | 18.9 | 229.0 | 126,400   | 215,500   | 30.3 | 250.3 | 116,800 | 207,800 | 150 |
| 155 |      |       |           |           | 6.6  | 202.6 | 119,200   | 206,300   | 25.0 | 239.9 | 110,800 | 199,200 | 155 |
| 160 |      |       |           |           |      |       |           |           | 18.2 | 225.8 | 105,000 | 191,100 | 160 |
| 165 |      |       |           |           |      |       |           |           |      |       |         |         | 165 |
| 170 |      |       |           |           |      |       |           |           |      |       |         |         | 170 |
| 175 |      |       |           |           |      |       |           |           |      |       |         |         | 175 |
| 180 |      |       |           |           |      |       |           |           |      |       |         |         | 180 |
| 185 |      |       |           |           |      |       |           |           |      |       |         |         | 185 |
| 190 |      |       |           |           |      |       |           |           |      |       |         |         | 190 |
| 195 |      |       |           |           |      |       |           |           |      |       |         |         | 195 |
| 200 |      |       |           |           |      |       |           |           |      |       |         |         | 200 |
| 205 |      |       |           |           |      |       |           |           |      |       |         |         | 205 |
| 210 |      |       |           |           |      |       |           |           |      |       |         |         | 210 |

# MLC650 VPC-MAX S-1

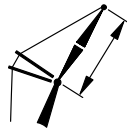
ASME B30.5



440,900 lb



183.7 ft

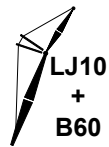


124.7 ft

|     | 75°  |       |         |         | 70°  |       |        |         | 65°  |       |        |         |     |
|-----|------|-------|---------|---------|------|-------|--------|---------|------|-------|--------|---------|-----|
|     | ft   | °     | ft      | lb      | lb   | ft    | lb     | lb      | ft   | lb    | lb     | ft      |     |
| 65  |      |       |         |         |      |       |        |         |      |       |        |         | 65  |
| 70  |      |       |         |         |      |       |        |         |      |       |        |         | 70  |
| 75  |      |       |         |         |      |       |        |         |      |       |        |         | 75  |
| 80  |      |       |         |         |      |       |        |         |      |       |        |         | 80  |
| 85  |      |       |         |         |      |       |        |         |      |       |        |         | 85  |
| 90  |      |       |         |         |      |       |        |         |      |       |        |         | 90  |
| 95  |      |       |         |         |      |       |        |         |      |       |        |         | 95  |
| 100 |      |       |         |         |      |       |        |         |      |       |        |         | 100 |
| 105 |      |       |         |         |      |       |        |         |      |       |        |         | 105 |
| 110 |      |       |         |         |      |       |        |         |      |       |        |         | 110 |
| 115 | 63.7 | 297.2 | 148,600 | 272,000 |      |       |        |         |      |       |        |         | 115 |
| 120 | 61.1 | 294.4 | 139,900 | 258,000 |      |       |        |         |      |       |        |         | 120 |
| 125 | 58.3 | 291.2 | 132,000 | 245,300 |      |       |        |         |      |       |        |         | 125 |
| 130 | 55.5 | 287.7 | 124,700 | 233,600 |      |       |        |         |      |       |        |         | 130 |
| 135 | 52.6 | 283.8 | 117,900 | 222,800 |      |       |        |         |      |       |        |         | 135 |
| 140 | 49.6 | 279.4 | 111,600 | 212,800 | 58.5 | 286.3 | 93,700 | 199,100 |      |       |        |         | 140 |
| 145 | 46.4 | 274.6 | 105,800 | 203,600 | 55.7 | 282.8 | 88,500 | 190,300 |      |       |        |         | 145 |
| 150 | 43.0 | 269.2 | 100,200 | 194,900 | 52.8 | 278.9 | 83,700 | 182,200 |      |       |        |         | 150 |
| 155 | 39.4 | 263.0 | 95,100  | 186,900 | 49.7 | 274.6 | 79,200 | 174,700 |      |       |        |         | 155 |
| 160 | 35.4 | 256.0 | 90,100  | 179,300 | 46.6 | 269.8 | 74,900 | 167,600 |      |       |        |         | 160 |
| 165 | 30.9 | 247.7 | 85,500  | 172,200 | 43.2 | 264.4 | 70,900 | 160,900 | 52.6 | 272.3 | 56,300 | 149,900 | 165 |
| 170 | 25.8 | 237.6 | 81,000  | 165,500 | 39.5 | 258.3 | 67,000 | 154,700 | 49.6 | 267.9 | 53,000 | 144,000 | 170 |
| 175 | 19.2 | 224.2 | 76,600  | 159,100 | 35.6 | 251.2 | 63,400 | 148,800 | 46.4 | 263.1 | 49,900 | 138,400 | 175 |
| 180 | 7.4  | 199.0 | 71,900  | 152,800 | 31.2 | 243.0 | 59,800 | 143,200 | 43.0 | 257.7 | 46,900 | 133,200 | 180 |
| 185 |      |       |         |         | 26.0 | 233.0 | 56,400 | 137,800 | 39.4 | 251.5 | 44,000 | 128,300 | 185 |
| 190 |      |       |         |         | 19.6 | 219.9 | 53,100 | 132,700 | 35.4 | 244.5 | 41,300 | 123,600 | 190 |
| 195 |      |       |         |         | 8.5  | 196.3 | 49,400 | 127,600 | 30.9 | 236.2 | 38,600 | 119,100 | 195 |
| 200 |      |       |         |         |      |       |        |         | 25.8 | 226.1 | 36,000 | 114,800 | 200 |
| 205 |      |       |         |         |      |       |        |         | 19.2 | 212.6 | 33,300 | 110,600 | 205 |
| 210 |      |       |         |         |      |       |        |         | 7.3  | 187.4 | 30,300 | 106,300 | 210 |

# MLC650 VPC-MAX S-1

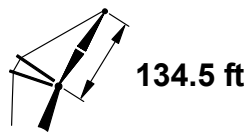
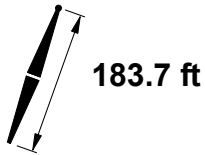
ASME B30.5



440,900 lb



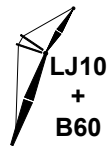
360°



|     | 85°  |       |           |           | 83°  |       |         |         | 80°  |       |         |         |     |
|-----|------|-------|-----------|-----------|------|-------|---------|---------|------|-------|---------|---------|-----|
|     |      |       |           |           |      |       |         |         |      |       |         |         |     |
| ft  | °    | ft    | lb        | lb        | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | ft  |
| 65  | 74.3 | 321.8 | 394,700 b | 543,300 b |      |       |         |         |      |       |         |         | 65  |
| 70  | 72.0 | 320.1 | 360,500   | 543,300   |      |       |         |         |      |       |         |         | 70  |
| 75  | 69.7 | 318.2 | 331,300   | 514,000   | 72.6 | 319.8 | 316,200 | 502,100 |      |       |         |         | 75  |
| 80  | 67.4 | 316.0 | 305,800   | 475,000   | 70.4 | 317.9 | 291,800 | 464,100 |      |       |         |         | 80  |
| 85  | 65.1 | 313.6 | 283,600   | 441,200   | 68.1 | 315.9 | 270,500 | 431,000 |      |       |         |         | 85  |
| 90  | 62.6 | 311.0 | 263,900   | 411,600   | 65.7 | 313.5 | 251,600 | 402,000 |      |       |         |         | 90  |
| 95  | 60.2 | 308.0 | 246,400   | 385,400   | 63.3 | 310.9 | 234,800 | 376,400 | 67.8 | 314.1 | 217,500 | 362,900 | 95  |
| 100 | 57.6 | 304.8 | 230,700   | 362,100   | 60.9 | 308.1 | 219,800 | 353,600 | 65.5 | 311.7 | 203,400 | 340,900 | 100 |
| 105 | 55.0 | 301.2 | 216,600   | 341,200   | 58.4 | 304.9 | 206,200 | 333,200 | 63.1 | 309.1 | 190,700 | 321,100 | 105 |
| 110 | 52.3 | 297.3 | 203,700   | 322,400   | 55.8 | 301.4 | 193,900 | 314,700 | 60.6 | 306.2 | 179,100 | 303,300 | 110 |
| 115 | 49.5 | 292.9 | 192,000   | 305,300   | 53.1 | 297.6 | 182,700 | 298,100 | 58.1 | 303.0 | 168,600 | 287,200 | 115 |
| 120 | 46.5 | 288.1 | 181,300   | 289,800   | 50.3 | 293.4 | 172,400 | 282,900 | 55.5 | 299.5 | 159,000 | 272,500 | 120 |
| 125 | 43.4 | 282.8 | 171,500   | 275,600   | 47.4 | 288.7 | 162,900 | 269,000 | 52.8 | 295.6 | 150,200 | 259,100 | 125 |
| 130 | 40.1 | 276.8 | 162,400   | 262,500   | 44.3 | 283.5 | 154,200 | 256,200 | 50.0 | 291.4 | 142,000 | 246,700 | 130 |
| 135 | 36.5 | 270.0 | 153,900   | 250,500   | 41.0 | 277.7 | 146,100 | 244,400 | 47.1 | 286.6 | 134,500 | 235,400 | 135 |
| 140 | 32.6 | 262.2 | 146,000   | 239,300   | 37.5 | 271.2 | 138,600 | 233,500 | 44.0 | 281.4 | 127,400 | 224,800 | 140 |
| 145 | 28.1 | 253.0 | 138,600   | 229,000   | 33.7 | 263.7 | 131,600 | 223,400 | 40.7 | 275.5 | 120,900 | 215,100 | 145 |
| 150 | 22.8 | 241.5 | 131,600   | 219,300   | 29.4 | 254.9 | 124,900 | 214,000 | 37.2 | 268.9 | 114,700 | 206,000 | 150 |
| 155 | 15.6 | 225.4 | 124,800   | 210,100   | 24.4 | 244.2 | 118,600 | 205,100 | 33.3 | 261.3 | 108,900 | 197,500 | 155 |
| 160 |      |       |           |           | 17.9 | 229.9 | 112,500 | 196,800 | 29.0 | 252.4 | 103,400 | 189,500 | 160 |
| 165 |      |       |           |           | 5.2  | 200.5 | 106,100 | 188,600 | 23.8 | 241.4 | 98,200  | 182,000 | 165 |
| 170 |      |       |           |           |      |       |         |         | 17.1 | 226.6 | 93,000  | 174,900 | 170 |
| 175 |      |       |           |           |      |       |         |         |      |       |         |         | 175 |
| 180 |      |       |           |           |      |       |         |         |      |       |         |         | 180 |
| 185 |      |       |           |           |      |       |         |         |      |       |         |         | 185 |
| 190 |      |       |           |           |      |       |         |         |      |       |         |         | 190 |
| 195 |      |       |           |           |      |       |         |         |      |       |         |         | 195 |
| 200 |      |       |           |           |      |       |         |         |      |       |         |         | 200 |
| 205 |      |       |           |           |      |       |         |         |      |       |         |         | 205 |
| 210 |      |       |           |           |      |       |         |         |      |       |         |         | 210 |
| 215 |      |       |           |           |      |       |         |         |      |       |         |         | 215 |
| 220 |      |       |           |           |      |       |         |         |      |       |         |         | 220 |

# MLC650 VPC-MAX S-1

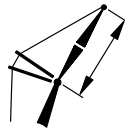
ASME B30.5



440,900 lb



183.7 ft

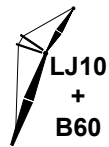


134.5 ft

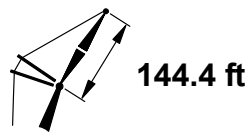
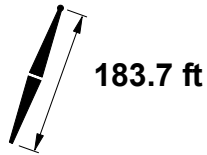
|     | 75°  |       |         |         | 70°  |       |        |         | 65°  |       |        |         |     |
|-----|------|-------|---------|---------|------|-------|--------|---------|------|-------|--------|---------|-----|
|     |      |       |         |         |      |       |        |         |      |       |        |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb     | lb      | °    | ft    | lb     | lb      | ft  |
| 65  |      |       |         |         |      |       |        |         |      |       |        |         | 65  |
| 70  |      |       |         |         |      |       |        |         |      |       |        |         | 70  |
| 75  |      |       |         |         |      |       |        |         |      |       |        |         | 75  |
| 80  |      |       |         |         |      |       |        |         |      |       |        |         | 80  |
| 85  |      |       |         |         |      |       |        |         |      |       |        |         | 85  |
| 90  |      |       |         |         |      |       |        |         |      |       |        |         | 90  |
| 95  |      |       |         |         |      |       |        |         |      |       |        |         | 95  |
| 100 |      |       |         |         |      |       |        |         |      |       |        |         | 100 |
| 105 |      |       |         |         |      |       |        |         |      |       |        |         | 105 |
| 110 |      |       |         |         |      |       |        |         |      |       |        |         | 110 |
| 115 |      |       |         |         |      |       |        |         |      |       |        |         | 115 |
| 120 | 63.4 | 305.7 | 136,900 | 255,500 |      |       |        |         |      |       |        |         | 120 |
| 125 | 60.9 | 302.8 | 129,100 | 242,800 |      |       |        |         |      |       |        |         | 125 |
| 130 | 58.4 | 299.7 | 121,800 | 231,200 |      |       |        |         |      |       |        |         | 130 |
| 135 | 55.8 | 296.2 | 115,100 | 220,400 |      |       |        |         |      |       |        |         | 135 |
| 140 | 53.2 | 292.4 | 108,900 | 210,500 |      |       |        |         |      |       |        |         | 140 |
| 145 | 50.4 | 288.2 | 103,100 | 201,300 | 58.6 | 294.7 | 85,400 | 187,800 |      |       |        |         | 145 |
| 150 | 47.5 | 283.5 | 97,600  | 192,800 | 56.0 | 291.3 | 80,700 | 179,800 |      |       |        |         | 150 |
| 155 | 44.4 | 278.3 | 92,500  | 184,800 | 53.3 | 287.5 | 76,200 | 172,300 |      |       |        |         | 155 |
| 160 | 41.1 | 272.6 | 87,700  | 177,300 | 50.5 | 283.3 | 72,000 | 165,200 |      |       |        |         | 160 |
| 165 | 37.7 | 266.1 | 83,100  | 170,300 | 47.6 | 278.7 | 68,000 | 158,700 |      |       |        |         | 165 |
| 170 | 33.8 | 258.6 | 78,800  | 163,700 | 44.6 | 273.5 | 64,300 | 152,500 | 53.2 | 280.9 | 49,900 | 141,500 | 170 |
| 175 | 29.5 | 249.9 | 74,700  | 157,400 | 41.3 | 267.8 | 60,700 | 146,600 | 50.4 | 276.7 | 46,800 | 136,000 | 175 |
| 180 | 24.5 | 239.2 | 70,700  | 151,500 | 37.8 | 261.3 | 57,300 | 141,100 | 47.5 | 272.0 | 43,900 | 130,900 | 180 |
| 185 | 18.1 | 225.1 | 66,800  | 145,800 | 34.0 | 253.9 | 54,100 | 135,900 | 44.4 | 266.8 | 41,100 | 126,000 | 185 |
| 190 | 6.2  | 197.5 | 62,400  | 140,100 | 29.8 | 245.2 | 50,900 | 130,900 | 41.1 | 261.0 | 38,500 | 121,300 | 190 |
| 195 |      |       |         |         | 24.8 | 234.7 | 47,900 | 126,100 | 37.6 | 254.5 | 35,900 | 116,900 | 195 |
| 200 |      |       |         |         | 18.5 | 220.8 | 44,800 | 121,500 | 33.8 | 247.1 | 33,400 | 112,700 | 200 |
| 205 |      |       |         |         | 7.4  | 195.3 | 41,400 | 116,900 | 29.5 | 238.3 | 31,000 | 108,700 | 205 |
| 210 |      |       |         |         |      |       |        |         | 24.5 | 227.7 | 28,700 | 104,800 | 210 |
| 215 |      |       |         |         |      |       |        |         | 18.1 | 213.5 | 26,300 | 101,000 | 215 |
| 220 |      |       |         |         |      |       |        |         | 6.2  | 185.9 | 23,400 | 97,100  | 220 |

# MLC650 VPC-MAX S-1

ASME B30.5



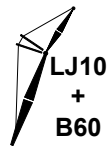
440,900 lb



|     | 85°  |       |         |         | 83°  |       |         |         | 80°  |       |         |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|---------|---------|-----|
|     |      |       |         |         |      |       |         |         |      |       |         |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | ft  |
| 70  | 73.3 | 330.5 | 358,800 | 500,000 |      |       |         |         |      |       |         |         | 70  |
| 75  | 71.2 | 328.7 | 329,500 | 499,800 |      |       |         |         |      |       |         |         | 75  |
| 80  | 69.1 | 326.8 | 304,100 | 472,800 | 71.8 | 328.5 | 290,000 | 461,800 |      |       |         |         | 80  |
| 85  | 66.9 | 324.6 | 281,900 | 439,200 | 69.7 | 326.5 | 268,600 | 428,900 |      |       |         |         | 85  |
| 90  | 64.7 | 322.1 | 262,200 | 409,600 | 67.5 | 324.4 | 249,800 | 400,000 |      |       |         |         | 90  |
| 95  | 62.4 | 319.4 | 244,700 | 383,600 | 65.3 | 322.0 | 233,000 | 374,500 | 69.4 | 324.8 | 215,500 | 360,900 | 95  |
| 100 | 60.1 | 316.5 | 229,100 | 360,300 | 63.1 | 319.4 | 218,000 | 351,700 | 67.3 | 322.6 | 201,500 | 338,900 | 100 |
| 105 | 57.8 | 313.3 | 215,000 | 339,500 | 60.8 | 316.5 | 204,500 | 331,400 | 65.1 | 320.2 | 188,800 | 319,300 | 105 |
| 110 | 55.3 | 309.7 | 202,200 | 320,800 | 58.4 | 313.4 | 192,200 | 313,000 | 62.8 | 317.6 | 177,300 | 301,500 | 110 |
| 115 | 52.8 | 305.9 | 190,500 | 303,700 | 56.0 | 310.0 | 181,000 | 296,400 | 60.5 | 314.7 | 166,800 | 285,400 | 115 |
| 120 | 50.2 | 301.6 | 179,800 | 288,300 | 53.5 | 306.2 | 170,800 | 281,300 | 58.2 | 311.5 | 157,200 | 270,800 | 120 |
| 125 | 47.5 | 297.0 | 170,000 | 274,100 | 51.0 | 302.1 | 161,400 | 267,400 | 55.8 | 308.0 | 148,400 | 257,400 | 125 |
| 130 | 44.7 | 291.9 | 161,000 | 261,100 | 48.3 | 297.6 | 152,700 | 254,700 | 53.3 | 304.2 | 140,300 | 245,100 | 130 |
| 135 | 41.7 | 286.2 | 152,600 | 249,100 | 45.5 | 292.6 | 144,700 | 243,000 | 50.7 | 300.1 | 132,800 | 233,800 | 135 |
| 140 | 38.5 | 279.9 | 144,800 | 238,000 | 42.5 | 287.1 | 137,200 | 232,100 | 48.0 | 295.5 | 125,800 | 223,300 | 140 |
| 145 | 35.0 | 272.8 | 137,500 | 227,700 | 39.4 | 280.9 | 130,200 | 222,100 | 45.2 | 290.5 | 119,300 | 213,600 | 145 |
| 150 | 31.2 | 264.6 | 130,700 | 218,100 | 36.0 | 274.0 | 123,700 | 212,700 | 42.2 | 284.9 | 113,200 | 204,600 | 150 |
| 155 | 26.9 | 254.9 | 124,200 | 209,200 | 32.3 | 266.2 | 117,600 | 204,000 | 39.1 | 278.7 | 107,500 | 196,200 | 155 |
| 160 | 21.7 | 242.8 | 118,000 | 200,700 | 28.2 | 257.0 | 111,800 | 195,800 | 35.7 | 271.7 | 102,100 | 188,300 | 160 |
| 165 | 14.7 | 225.9 | 112,000 | 192,800 | 23.3 | 245.7 | 106,200 | 188,000 | 31.9 | 263.8 | 97,000  | 180,800 | 165 |
| 170 |      |       |         |         | 17.0 | 230.6 | 100,800 | 180,700 | 27.7 | 254.4 | 92,200  | 173,800 | 170 |
| 175 |      |       |         |         | 3.4  | 197.0 | 94,900  | 173,500 | 22.7 | 242.9 | 87,500  | 167,200 | 175 |
| 180 |      |       |         |         |      |       |         |         | 16.2 | 227.2 | 82,900  | 160,900 | 180 |
| 185 |      |       |         |         |      |       |         |         |      |       |         |         | 185 |
| 190 |      |       |         |         |      |       |         |         |      |       |         |         | 190 |
| 195 |      |       |         |         |      |       |         |         |      |       |         |         | 195 |
| 200 |      |       |         |         |      |       |         |         |      |       |         |         | 200 |
| 205 |      |       |         |         |      |       |         |         |      |       |         |         | 205 |
| 210 |      |       |         |         |      |       |         |         |      |       |         |         | 210 |
| 215 |      |       |         |         |      |       |         |         |      |       |         |         | 215 |
| 220 |      |       |         |         |      |       |         |         |      |       |         |         | 220 |
| 225 |      |       |         |         |      |       |         |         |      |       |         |         | 225 |
| 230 |      |       |         |         |      |       |         |         |      |       |         |         | 230 |

# MLC650 VPC-MAX S-1

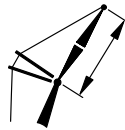
ASME B30.5



440,900 lb



183.7 ft

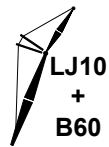


144.4 ft

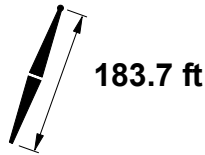
|     | 75°  |       |         |         | 70°  |       |        |         | 65°  |       |        |         |     |
|-----|------|-------|---------|---------|------|-------|--------|---------|------|-------|--------|---------|-----|
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb     | lb      | °    | ft    | lb     | lb      | ft  |
| 70  |      |       |         |         |      |       |        |         |      |       |        |         | 70  |
| 75  |      |       |         |         |      |       |        |         |      |       |        |         | 75  |
| 80  |      |       |         |         |      |       |        |         |      |       |        |         | 80  |
| 85  |      |       |         |         |      |       |        |         |      |       |        |         | 85  |
| 90  |      |       |         |         |      |       |        |         |      |       |        |         | 90  |
| 95  |      |       |         |         |      |       |        |         |      |       |        |         | 95  |
| 100 |      |       |         |         |      |       |        |         |      |       |        |         | 100 |
| 105 |      |       |         |         |      |       |        |         |      |       |        |         | 105 |
| 110 |      |       |         |         |      |       |        |         |      |       |        |         | 110 |
| 115 |      |       |         |         |      |       |        |         |      |       |        |         | 115 |
| 120 |      |       |         |         |      |       |        |         |      |       |        |         | 120 |
| 125 | 63.1 | 314.2 | 127,100 | 241,000 |      |       |        |         |      |       |        |         | 125 |
| 130 | 60.8 | 311.3 | 119,900 | 229,400 |      |       |        |         |      |       |        |         | 130 |
| 135 | 58.5 | 308.2 | 113,200 | 218,700 |      |       |        |         |      |       |        |         | 135 |
| 140 | 56.1 | 304.7 | 107,000 | 208,900 |      |       |        |         |      |       |        |         | 140 |
| 145 | 53.6 | 301.0 | 101,200 | 199,700 |      |       |        |         |      |       |        |         | 145 |
| 150 | 51.0 | 296.9 | 95,800  | 191,200 | 58.6 | 303.2 | 78,600 | 178,100 |      |       |        |         | 150 |
| 155 | 48.4 | 292.4 | 90,800  | 183,200 | 56.2 | 299.8 | 74,200 | 170,600 |      |       |        |         | 155 |
| 160 | 45.6 | 287.4 | 86,000  | 175,800 | 53.7 | 296.1 | 70,000 | 163,600 |      |       |        |         | 160 |
| 165 | 42.6 | 281.9 | 81,500  | 168,800 | 51.2 | 292.0 | 66,100 | 157,100 |      |       |        |         | 165 |
| 170 | 39.5 | 275.8 | 77,300  | 162,300 | 48.5 | 287.5 | 62,400 | 150,900 |      |       |        |         | 170 |
| 175 | 36.1 | 268.9 | 73,300  | 156,100 | 45.7 | 282.5 | 58,900 | 145,100 | 53.6 | 289.5 | 44,800 | 134,400 | 175 |
| 180 | 32.4 | 261.1 | 69,400  | 150,300 | 42.8 | 277.1 | 55,600 | 139,600 | 51.0 | 285.3 | 41,900 | 129,200 | 180 |
| 185 | 28.3 | 251.9 | 65,700  | 144,700 | 39.7 | 271.0 | 52,400 | 134,500 | 48.4 | 280.8 | 39,200 | 124,400 | 185 |
| 190 | 23.4 | 240.7 | 62,100  | 139,400 | 36.3 | 264.2 | 49,400 | 129,500 | 45.6 | 275.9 | 36,600 | 119,800 | 190 |
| 195 | 17.2 | 225.9 | 58,600  | 134,400 | 32.6 | 256.4 | 46,400 | 124,900 | 42.6 | 270.4 | 34,100 | 115,400 | 195 |
| 200 | 4.9  | 195.3 | 54,600  | 129,200 | 28.5 | 247.3 | 43,600 | 120,400 | 39.5 | 264.3 | 31,700 | 111,300 | 200 |
| 205 |      |       |         |         | 23.7 | 236.3 | 40,900 | 116,100 | 36.1 | 257.4 | 29,400 | 107,300 | 205 |
| 210 |      |       |         |         | 17.6 | 221.6 | 38,100 | 112,000 | 32.4 | 249.6 | 27,200 | 103,500 | 210 |
| 215 |      |       |         |         | 6.4  | 193.9 | 34,900 | 107,700 | 28.3 | 240.4 | 25,000 | 99,900  | 215 |
| 220 |      |       |         |         |      |       |        |         | 23.4 | 229.2 | 22,800 | 96,400  | 220 |
| 225 |      |       |         |         |      |       |        |         | 17.2 | 214.3 | 20,600 | 93,000  | 225 |
| 230 |      |       |         |         |      |       |        |         | 4.8  | 183.7 | 18,300 | 89,300  | 230 |

# MLC650 VPC-MAX S-1

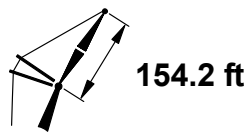
ASME B30.5



440,900 lb



183.7 ft

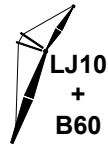


154.2 ft

|     | 85°  |       |         |         | 83°  |       |         |         | 80°  |       |         |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|---------|---------|-----|
|     |      |       |         |         |      |       |         |         |      |       |         |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | ft  |
| 70  | 74.4 | 340.8 | 385,300 | 459,500 |      |       |         |         |      |       |         |         | 70  |
| 75  | 72.4 | 339.2 | 354,000 | 459,500 |      |       |         |         |      |       |         |         | 75  |
| 80  | 70.5 | 337.4 | 326,800 | 459,500 | 73.0 | 338.9 | 312,400 | 457,800 |      |       |         |         | 80  |
| 85  | 68.5 | 335.3 | 303,000 | 436,700 | 71.0 | 337.1 | 289,500 | 426,200 |      |       |         |         | 85  |
| 90  | 66.4 | 333.1 | 282,000 | 407,300 | 69.0 | 335.1 | 269,300 | 397,500 |      |       |         |         | 90  |
| 95  | 64.4 | 330.6 | 263,300 | 381,300 | 67.0 | 332.9 | 251,400 | 372,000 |      |       |         |         | 95  |
| 100 | 62.2 | 327.9 | 246,600 | 358,100 | 64.9 | 330.5 | 235,300 | 349,400 | 68.8 | 333.3 | 218,400 | 336,400 | 100 |
| 105 | 60.1 | 325.0 | 231,500 | 337,400 | 62.8 | 327.9 | 220,800 | 329,100 | 66.8 | 331.1 | 204,800 | 316,800 | 105 |
| 110 | 57.9 | 321.8 | 217,900 | 318,700 | 60.7 | 325.0 | 207,700 | 310,800 | 64.7 | 328.7 | 192,500 | 299,100 | 110 |
| 115 | 55.6 | 318.3 | 205,400 | 301,700 | 58.5 | 321.9 | 195,700 | 294,200 | 62.6 | 326.0 | 181,200 | 283,100 | 115 |
| 120 | 53.3 | 314.5 | 194,000 | 286,300 | 56.2 | 318.5 | 184,800 | 279,200 | 60.5 | 323.1 | 170,900 | 268,500 | 120 |
| 125 | 50.9 | 310.3 | 183,600 | 272,200 | 53.9 | 314.8 | 174,700 | 265,400 | 58.3 | 320.0 | 161,500 | 255,200 | 125 |
| 130 | 48.4 | 305.8 | 174,000 | 259,200 | 51.6 | 310.7 | 165,500 | 252,700 | 56.0 | 316.5 | 152,800 | 243,000 | 130 |
| 135 | 45.8 | 300.9 | 165,000 | 247,300 | 49.1 | 306.3 | 156,900 | 241,000 | 53.7 | 312.8 | 144,800 | 231,700 | 135 |
| 140 | 43.0 | 295.5 | 156,800 | 236,200 | 46.5 | 301.5 | 149,000 | 230,200 | 51.3 | 308.7 | 137,300 | 221,300 | 140 |
| 145 | 40.1 | 289.5 | 149,000 | 226,000 | 43.8 | 296.3 | 141,500 | 220,200 | 48.8 | 304.3 | 130,300 | 211,600 | 145 |
| 150 | 37.0 | 282.9 | 141,800 | 216,400 | 41.0 | 290.5 | 134,600 | 210,900 | 46.2 | 299.5 | 123,800 | 202,600 | 150 |
| 155 | 33.7 | 275.4 | 135,000 | 207,500 | 37.9 | 284.0 | 128,100 | 202,200 | 43.5 | 294.1 | 117,700 | 194,200 | 155 |
| 160 | 30.0 | 266.8 | 128,600 | 199,200 | 34.7 | 276.8 | 122,000 | 194,100 | 40.7 | 288.3 | 112,000 | 186,400 | 160 |
| 165 | 25.8 | 256.7 | 122,500 | 191,300 | 31.1 | 268.5 | 116,200 | 186,400 | 37.6 | 281.8 | 106,600 | 179,000 | 165 |
| 170 | 20.8 | 244.1 | 116,700 | 183,900 | 27.0 | 258.9 | 110,700 | 179,200 | 34.3 | 274.4 | 101,500 | 172,100 | 170 |
| 175 | 13.9 | 226.3 | 111,000 | 176,900 | 22.3 | 247.1 | 105,400 | 172,400 | 30.7 | 266.1 | 96,700  | 165,500 | 175 |
| 180 |      |       |         |         | 16.1 | 231.3 | 100,300 | 165,900 | 26.6 | 256.3 | 92,000  | 159,300 | 180 |
| 185 |      |       |         |         |      |       |         |         | 21.8 | 244.2 | 87,500  | 153,500 | 185 |
| 190 |      |       |         |         |      |       |         |         | 15.4 | 227.8 | 83,100  | 147,800 | 190 |
| 195 |      |       |         |         |      |       |         |         |      |       |         |         | 195 |
| 200 |      |       |         |         |      |       |         |         |      |       |         |         | 200 |
| 205 |      |       |         |         |      |       |         |         |      |       |         |         | 205 |
| 210 |      |       |         |         |      |       |         |         |      |       |         |         | 210 |
| 215 |      |       |         |         |      |       |         |         |      |       |         |         | 215 |
| 220 |      |       |         |         |      |       |         |         |      |       |         |         | 220 |
| 225 |      |       |         |         |      |       |         |         |      |       |         |         | 225 |
| 230 |      |       |         |         |      |       |         |         |      |       |         |         | 230 |
| 240 |      |       |         |         |      |       |         |         |      |       |         |         | 240 |

# MLC650 VPC-MAX S-1

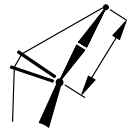
ASME B30.5



440,900 lb



183.7 ft

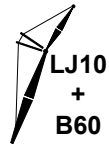


154.2 ft

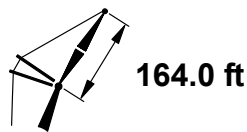
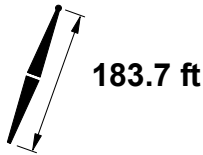
|     | 75°  |       |         |         | 70°  |       |        |         | 65°  |       |        |         |     |
|-----|------|-------|---------|---------|------|-------|--------|---------|------|-------|--------|---------|-----|
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb     | lb      | °    | ft    | lb     | lb      | ft  |
| 70  |      |       |         |         |      |       |        |         |      |       |        |         | 70  |
| 75  |      |       |         |         |      |       |        |         |      |       |        |         | 75  |
| 80  |      |       |         |         |      |       |        |         |      |       |        |         | 80  |
| 85  |      |       |         |         |      |       |        |         |      |       |        |         | 85  |
| 90  |      |       |         |         |      |       |        |         |      |       |        |         | 90  |
| 95  |      |       |         |         |      |       |        |         |      |       |        |         | 95  |
| 100 |      |       |         |         |      |       |        |         |      |       |        |         | 100 |
| 105 |      |       |         |         |      |       |        |         |      |       |        |         | 105 |
| 110 |      |       |         |         |      |       |        |         |      |       |        |         | 110 |
| 115 |      |       |         |         |      |       |        |         |      |       |        |         | 115 |
| 120 |      |       |         |         |      |       |        |         |      |       |        |         | 120 |
| 125 | 65.0 | 325.3 | 139,700 | 238,500 |      |       |        |         |      |       |        |         | 125 |
| 130 | 62.9 | 322.6 | 131,900 | 227,000 |      |       |        |         |      |       |        |         | 130 |
| 135 | 60.8 | 319.8 | 124,700 | 216,400 |      |       |        |         |      |       |        |         | 135 |
| 140 | 58.6 | 316.6 | 118,000 | 206,500 |      |       |        |         |      |       |        |         | 140 |
| 145 | 56.3 | 313.2 | 111,800 | 197,400 |      |       |        |         |      |       |        |         | 145 |
| 150 | 54.0 | 309.5 | 106,000 | 188,900 |      |       |        |         |      |       |        |         | 150 |
| 155 | 51.6 | 305.5 | 100,500 | 181,000 | 58.7 | 311.7 | 83,600 | 168,200 |      |       |        |         | 155 |
| 160 | 49.2 | 301.1 | 95,400  | 173,700 | 56.4 | 308.3 | 79,100 | 161,200 |      |       |        |         | 160 |
| 165 | 46.6 | 296.3 | 90,600  | 166,700 | 54.1 | 304.6 | 74,800 | 154,700 |      |       |        |         | 165 |
| 170 | 43.9 | 291.1 | 86,100  | 160,200 | 51.7 | 300.6 | 70,800 | 148,600 |      |       |        |         | 170 |
| 175 | 41.0 | 285.3 | 81,800  | 154,100 | 49.3 | 296.3 | 67,000 | 142,800 |      |       |        |         | 175 |
| 180 | 38.0 | 278.9 | 77,700  | 148,300 | 46.7 | 291.5 | 63,500 | 137,400 | 54.0 | 298.0 | 49,500 | 126,800 | 180 |
| 185 | 34.8 | 271.7 | 73,800  | 142,800 | 44.0 | 286.3 | 60,000 | 132,300 | 51.6 | 294.0 | 46,500 | 122,000 | 185 |
| 190 | 31.2 | 263.5 | 70,100  | 137,600 | 41.2 | 280.5 | 56,800 | 127,400 | 49.2 | 289.6 | 43,700 | 117,500 | 190 |
| 195 | 27.2 | 253.9 | 66,500  | 132,700 | 38.2 | 274.1 | 53,700 | 122,800 | 46.6 | 284.8 | 41,000 | 113,100 | 195 |
| 200 | 22.4 | 242.2 | 63,100  | 127,900 | 34.9 | 266.9 | 50,700 | 118,400 | 43.9 | 279.6 | 38,400 | 109,000 | 200 |
| 205 | 16.4 | 226.6 | 59,600  | 123,400 | 31.4 | 258.8 | 47,800 | 114,200 | 41.0 | 273.8 | 35,900 | 105,100 | 205 |
| 210 | 3.1  | 191.4 | 55,600  | 118,600 | 27.4 | 249.3 | 45,100 | 110,200 | 38.0 | 267.4 | 33,500 | 101,400 | 210 |
| 215 |      |       |         |         | 22.7 | 237.7 | 42,300 | 106,300 | 34.8 | 260.1 | 31,200 | 97,800  | 215 |
| 220 |      |       |         |         | 16.7 | 222.4 | 39,600 | 102,600 | 31.2 | 251.9 | 29,000 | 94,400  | 220 |
| 225 |      |       |         |         | 5.2  | 191.9 | 36,500 | 98,700  | 27.2 | 242.3 | 26,800 | 91,100  | 225 |
| 230 |      |       |         |         |      |       |        |         | 22.4 | 230.6 | 24,700 | 87,900  | 230 |
| 240 |      |       |         |         |      |       |        |         | 3.1  | 179.7 |        | 81,400  | 240 |

# MLC650 VPC-MAX S-1

ASME B30.5



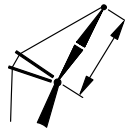
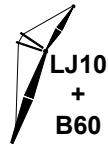
440,900 lb



| 85° |      |       |         |         | 83°  |       |         |         | 80°  |       |         |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|---------|---------|-----|
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | ft  |
| 75  | 73.5 | 349.6 | 353,300 | 423,300 |      |       |         |         |      |       |         |         | 75  |
| 80  | 71.7 | 347.9 | 326,200 | 423,100 |      |       |         |         |      |       |         |         | 80  |
| 85  | 69.8 | 346.0 | 302,500 | 421,900 | 72.2 | 347.6 | 288,800 | 421,100 |      |       |         |         | 85  |
| 90  | 67.9 | 343.9 | 281,500 | 406,200 | 70.3 | 345.7 | 268,700 | 396,300 |      |       |         |         | 90  |
| 95  | 66.0 | 341.6 | 262,800 | 380,300 | 68.5 | 343.7 | 250,700 | 371,000 |      |       |         |         | 95  |
| 100 | 64.1 | 339.1 | 246,100 | 357,200 | 66.5 | 341.5 | 234,700 | 348,400 |      |       |         |         | 100 |
| 105 | 62.1 | 336.4 | 231,000 | 336,500 | 64.6 | 339.0 | 220,200 | 328,200 | 68.3 | 341.9 | 204,000 | 315,800 | 105 |
| 110 | 60.0 | 333.4 | 217,400 | 317,900 | 62.6 | 336.4 | 207,100 | 309,900 | 66.4 | 339.6 | 191,700 | 298,200 | 110 |
| 115 | 58.0 | 330.2 | 205,000 | 301,000 | 60.6 | 333.5 | 195,200 | 293,400 | 64.4 | 337.2 | 180,500 | 282,200 | 115 |
| 120 | 55.9 | 326.8 | 193,600 | 285,600 | 58.6 | 330.4 | 184,200 | 278,400 | 62.4 | 334.5 | 170,300 | 267,700 | 120 |
| 125 | 53.7 | 323.1 | 183,200 | 271,500 | 56.5 | 327.0 | 174,200 | 264,600 | 60.4 | 331.6 | 160,800 | 254,400 | 125 |
| 130 | 51.4 | 319.0 | 173,600 | 258,600 | 54.3 | 323.3 | 165,000 | 252,000 | 58.4 | 328.5 | 152,200 | 242,200 | 130 |
| 135 | 49.1 | 314.6 | 164,700 | 246,700 | 52.1 | 319.4 | 156,500 | 240,400 | 56.2 | 325.1 | 144,200 | 231,000 | 135 |
| 140 | 46.7 | 309.8 | 156,500 | 235,700 | 49.8 | 315.1 | 148,500 | 229,600 | 54.1 | 321.4 | 136,700 | 220,600 | 140 |
| 145 | 44.2 | 304.7 | 148,800 | 225,500 | 47.4 | 310.4 | 141,200 | 219,600 | 51.8 | 317.4 | 129,800 | 210,900 | 145 |
| 150 | 41.5 | 299.0 | 141,600 | 216,000 | 44.9 | 305.4 | 134,300 | 210,400 | 49.5 | 313.1 | 123,300 | 202,000 | 150 |
| 155 | 38.7 | 292.7 | 134,900 | 207,100 | 42.3 | 299.8 | 127,800 | 201,700 | 47.1 | 308.4 | 117,300 | 193,600 | 155 |
| 160 | 35.7 | 285.7 | 128,500 | 198,800 | 39.5 | 293.7 | 121,800 | 193,600 | 44.6 | 303.2 | 111,600 | 185,800 | 160 |
| 165 | 32.5 | 277.9 | 122,600 | 191,000 | 36.6 | 287.0 | 116,000 | 186,000 | 42.0 | 297.7 | 106,200 | 178,500 | 165 |
| 170 | 28.9 | 268.9 | 116,900 | 183,700 | 33.4 | 279.4 | 110,600 | 178,900 | 39.2 | 291.5 | 101,200 | 171,600 | 170 |
| 175 | 24.8 | 258.4 | 111,500 | 176,800 | 29.9 | 270.8 | 105,500 | 172,100 | 36.3 | 284.7 | 96,400  | 165,100 | 175 |
| 180 | 19.9 | 245.2 | 106,300 | 170,300 | 26.0 | 260.7 | 100,600 | 165,800 | 33.1 | 277.0 | 91,900  | 159,000 | 180 |
| 185 | 13.2 | 226.5 | 101,200 | 164,000 | 21.4 | 248.4 | 95,900  | 159,700 | 29.6 | 268.3 | 87,500  | 153,200 | 185 |
| 190 |      |       |         |         | 15.4 | 231.9 | 91,300  | 153,900 | 25.6 | 258.0 | 83,400  | 147,700 | 190 |
| 195 |      |       |         |         |      |       |         |         | 20.9 | 245.5 | 79,400  | 142,400 | 195 |
| 200 |      |       |         |         |      |       |         |         | 14.6 | 228.3 | 75,400  | 137,300 | 200 |
| 205 |      |       |         |         |      |       |         |         |      |       |         |         | 205 |
| 210 |      |       |         |         |      |       |         |         |      |       |         |         | 210 |
| 215 |      |       |         |         |      |       |         |         |      |       |         |         | 215 |
| 220 |      |       |         |         |      |       |         |         |      |       |         |         | 220 |
| 225 |      |       |         |         |      |       |         |         |      |       |         |         | 225 |
| 230 |      |       |         |         |      |       |         |         |      |       |         |         | 230 |
| 240 |      |       |         |         |      |       |         |         |      |       |         |         | 240 |

# MLC650 VPC-MAX S-1

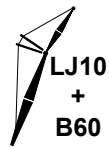
ASME B30.5



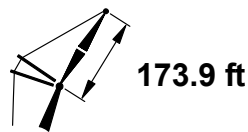
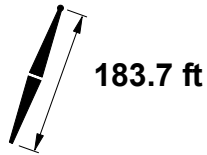
|     | 75°  |       |         |         | 70°  |       |        |         | 65°  |       |        |         |     |
|-----|------|-------|---------|---------|------|-------|--------|---------|------|-------|--------|---------|-----|
|     |      |       |         |         |      |       |        |         |      |       |        |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb     | lb      | °    | ft    | lb     | lb      | ft  |
| 75  |      |       |         |         |      |       |        |         |      |       |        |         | 75  |
| 80  |      |       |         |         |      |       |        |         |      |       |        |         | 80  |
| 85  |      |       |         |         |      |       |        |         |      |       |        |         | 85  |
| 90  |      |       |         |         |      |       |        |         |      |       |        |         | 90  |
| 95  |      |       |         |         |      |       |        |         |      |       |        |         | 95  |
| 100 |      |       |         |         |      |       |        |         |      |       |        |         | 100 |
| 105 |      |       |         |         |      |       |        |         |      |       |        |         | 105 |
| 110 |      |       |         |         |      |       |        |         |      |       |        |         | 110 |
| 115 |      |       |         |         |      |       |        |         |      |       |        |         | 115 |
| 120 |      |       |         |         |      |       |        |         |      |       |        |         | 120 |
| 125 |      |       |         |         |      |       |        |         |      |       |        |         | 125 |
| 130 | 64.7 | 333.8 | 131,000 | 226,100 |      |       |        |         |      |       |        |         | 130 |
| 135 | 62.7 | 331.1 | 123,900 | 215,500 |      |       |        |         |      |       |        |         | 135 |
| 140 | 60.7 | 328.2 | 117,200 | 205,700 |      |       |        |         |      |       |        |         | 140 |
| 145 | 58.6 | 325.1 | 111,000 | 196,600 |      |       |        |         |      |       |        |         | 145 |
| 150 | 56.5 | 321.8 | 105,200 | 188,200 |      |       |        |         |      |       |        |         | 150 |
| 155 | 54.4 | 318.1 | 99,800  | 180,300 |      |       |        |         |      |       |        |         | 155 |
| 160 | 52.1 | 314.2 | 94,800  | 173,000 | 58.7 | 320.2 | 78,200 | 160,400 |      |       |        |         | 160 |
| 165 | 49.8 | 309.9 | 90,000  | 166,100 | 56.6 | 316.8 | 74,000 | 153,900 |      |       |        |         | 165 |
| 170 | 47.4 | 305.2 | 85,500  | 159,600 | 54.5 | 313.2 | 70,000 | 147,800 |      |       |        |         | 170 |
| 175 | 45.0 | 300.2 | 81,200  | 153,500 | 52.2 | 309.3 | 66,300 | 142,100 |      |       |        |         | 175 |
| 180 | 42.4 | 294.6 | 77,200  | 147,700 | 49.9 | 305.0 | 62,700 | 136,700 |      |       |        |         | 180 |
| 185 | 39.6 | 288.6 | 73,400  | 142,300 | 47.6 | 300.4 | 59,300 | 131,600 | 54.4 | 306.6 | 45,600 | 121,200 | 185 |
| 190 | 36.7 | 281.8 | 69,700  | 137,200 | 45.1 | 295.3 | 56,100 | 126,800 | 52.1 | 302.6 | 42,800 | 116,700 | 190 |
| 195 | 33.5 | 274.3 | 66,300  | 132,300 | 42.5 | 289.8 | 53,100 | 122,200 | 49.8 | 298.4 | 40,100 | 112,400 | 195 |
| 200 | 30.1 | 265.7 | 62,900  | 127,600 | 39.8 | 283.8 | 50,200 | 117,900 | 47.4 | 293.7 | 37,600 | 108,300 | 200 |
| 205 | 26.1 | 255.7 | 59,700  | 123,100 | 36.8 | 277.1 | 47,400 | 113,700 | 45.0 | 288.7 | 35,200 | 104,500 | 205 |
| 210 | 21.5 | 243.5 | 56,500  | 118,900 | 33.7 | 269.6 | 44,700 | 109,700 | 42.4 | 283.1 | 32,800 | 100,800 | 210 |
| 215 | 15.6 | 227.2 | 53,400  | 114,700 | 30.2 | 261.1 | 42,100 | 106,000 | 39.6 | 277.0 | 30,600 | 97,200  | 215 |
| 220 |      |       |         |         | 26.4 | 251.1 | 39,500 | 102,300 | 36.7 | 270.3 | 28,400 | 93,900  | 220 |
| 225 |      |       |         |         | 21.8 | 239.1 | 37,100 | 98,800  | 33.5 | 262.8 | 26,400 | 90,600  | 225 |
| 230 |      |       |         |         | 15.9 | 223.0 | 34,500 | 95,400  | 30.1 | 254.2 | 24,300 | 87,500  | 230 |
| 240 |      |       |         |         |      |       |        |         | 21.5 | 232.0 | 20,400 | 81,600  | 240 |

# MLC650 VPC-MAX S-1

ASME B30.5



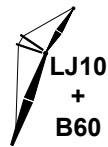
440,900 lb



|     | 85°  |       |         |         | 83°  |       |         |         | 80°  |       |         |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|---------|---------|-----|
|     |      |       |         |         |      |       |         |         |      |       |         |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | ft  |
| 75  | 74.5 | 359.9 | 350,900 | 390,600 |      |       |         |         |      |       |         |         | 75  |
| 80  | 72.8 | 358.3 | 323,800 | 390,600 |      |       |         |         |      |       |         |         | 80  |
| 85  | 71.0 | 356.5 | 300,000 | 390,300 |      |       |         |         |      |       |         |         | 85  |
| 90  | 69.3 | 354.6 | 279,100 | 389,100 | 71.5 | 356.2 | 266,100 | 389,000 |      |       |         |         | 90  |
| 95  | 67.5 | 352.4 | 260,400 | 378,000 | 69.7 | 354.3 | 248,200 | 368,500 |      |       |         |         | 95  |
| 100 | 65.6 | 350.1 | 243,800 | 355,000 | 68.0 | 352.3 | 232,100 | 346,100 |      |       |         |         | 100 |
| 105 | 63.8 | 347.6 | 228,700 | 334,400 | 66.2 | 350.0 | 217,700 | 325,900 | 69.6 | 352.5 | 201,200 | 313,300 | 105 |
| 110 | 61.9 | 344.9 | 215,100 | 315,800 | 64.3 | 347.5 | 204,600 | 307,700 | 67.8 | 350.4 | 189,000 | 295,800 | 110 |
| 115 | 60.0 | 341.9 | 202,700 | 298,900 | 62.5 | 344.9 | 192,700 | 291,300 | 66.0 | 348.2 | 177,800 | 279,900 | 115 |
| 120 | 58.1 | 338.7 | 191,400 | 283,600 | 60.5 | 342.0 | 181,800 | 276,300 | 64.1 | 345.7 | 167,600 | 265,400 | 120 |
| 125 | 56.1 | 335.3 | 181,000 | 269,500 | 58.6 | 338.9 | 171,800 | 262,600 | 62.3 | 343.0 | 158,200 | 252,200 | 125 |
| 130 | 54.0 | 331.6 | 171,400 | 256,700 | 56.6 | 335.5 | 162,600 | 250,000 | 60.4 | 340.1 | 149,600 | 240,000 | 130 |
| 135 | 51.9 | 327.7 | 162,500 | 244,800 | 54.6 | 331.9 | 154,100 | 238,400 | 58.4 | 337.0 | 141,600 | 228,800 | 135 |
| 140 | 49.7 | 323.4 | 154,300 | 233,800 | 52.5 | 328.0 | 146,200 | 227,700 | 56.4 | 333.6 | 134,200 | 218,500 | 140 |
| 145 | 47.5 | 318.7 | 146,700 | 223,600 | 50.4 | 323.8 | 138,900 | 217,700 | 54.4 | 329.9 | 127,300 | 208,900 | 145 |
| 150 | 45.2 | 313.7 | 139,500 | 214,200 | 48.1 | 319.3 | 132,000 | 208,500 | 52.3 | 326.0 | 120,900 | 199,900 | 150 |
| 155 | 42.7 | 308.2 | 132,800 | 205,300 | 45.8 | 314.4 | 125,600 | 199,800 | 50.1 | 321.8 | 114,800 | 191,600 | 155 |
| 160 | 40.2 | 302.3 | 126,500 | 197,100 | 43.4 | 309.0 | 119,600 | 191,800 | 47.9 | 317.2 | 109,200 | 183,800 | 160 |
| 165 | 37.4 | 295.7 | 120,600 | 189,400 | 40.9 | 303.2 | 113,900 | 184,200 | 45.6 | 312.3 | 103,900 | 176,500 | 165 |
| 170 | 34.5 | 288.5 | 115,000 | 182,100 | 38.2 | 296.8 | 108,600 | 177,100 | 43.2 | 306.9 | 98,900  | 169,700 | 170 |
| 175 | 31.4 | 280.3 | 109,800 | 175,200 | 35.4 | 289.8 | 103,500 | 170,400 | 40.6 | 301.0 | 94,100  | 163,200 | 175 |
| 180 | 27.9 | 271.0 | 104,700 | 168,700 | 32.3 | 281.9 | 98,700  | 164,100 | 38.0 | 294.6 | 89,700  | 157,200 | 180 |
| 185 | 23.9 | 260.0 | 99,900  | 162,600 | 28.9 | 272.9 | 94,100  | 158,100 | 35.1 | 287.5 | 85,400  | 151,400 | 185 |
| 190 | 19.1 | 246.3 | 95,200  | 156,700 | 25.1 | 262.4 | 89,700  | 152,400 | 32.0 | 279.5 | 81,300  | 145,900 | 190 |
| 195 | 12.5 | 226.7 | 90,600  | 151,100 | 20.6 | 249.7 | 85,500  | 147,000 | 28.6 | 270.4 | 77,500  | 140,800 | 195 |
| 200 |      |       |         |         | 14.6 | 232.4 | 81,300  | 141,800 | 24.7 | 259.7 | 73,700  | 135,800 | 200 |
| 205 |      |       |         |         |      |       |         |         | 20.1 | 246.7 | 70,100  | 131,100 | 205 |
| 210 |      |       |         |         |      |       |         |         | 13.9 | 228.7 | 66,400  | 126,500 | 210 |
| 215 |      |       |         |         |      |       |         |         |      |       |         |         | 215 |
| 220 |      |       |         |         |      |       |         |         |      |       |         |         | 220 |
| 225 |      |       |         |         |      |       |         |         |      |       |         |         | 225 |
| 230 |      |       |         |         |      |       |         |         |      |       |         |         | 230 |
| 240 |      |       |         |         |      |       |         |         |      |       |         |         | 240 |
| 250 |      |       |         |         |      |       |         |         |      |       |         |         | 250 |

# MLC650 VPC-MAX S-1

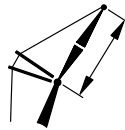
ASME B30.5



440,900 lb



183.7 ft

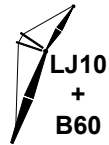


173.9 ft

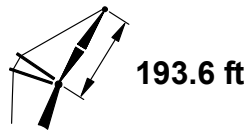
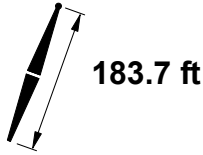
|     | 75°  |       |         |         | 70°  |       |        |         | 65°  |       |        |         |     |
|-----|------|-------|---------|---------|------|-------|--------|---------|------|-------|--------|---------|-----|
|     |      |       |         |         |      |       |        |         |      |       |        |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb     | lb      | °    | ft    | lb     | lb      | ft  |
| 75  |      |       |         |         |      |       |        |         |      |       |        |         | 75  |
| 80  |      |       |         |         |      |       |        |         |      |       |        |         | 80  |
| 85  |      |       |         |         |      |       |        |         |      |       |        |         | 85  |
| 90  |      |       |         |         |      |       |        |         |      |       |        |         | 90  |
| 95  |      |       |         |         |      |       |        |         |      |       |        |         | 95  |
| 100 |      |       |         |         |      |       |        |         |      |       |        |         | 100 |
| 105 |      |       |         |         |      |       |        |         |      |       |        |         | 105 |
| 110 |      |       |         |         |      |       |        |         |      |       |        |         | 110 |
| 115 |      |       |         |         |      |       |        |         |      |       |        |         | 115 |
| 120 |      |       |         |         |      |       |        |         |      |       |        |         | 120 |
| 125 |      |       |         |         |      |       |        |         |      |       |        |         | 125 |
| 130 |      |       |         |         |      |       |        |         |      |       |        |         | 130 |
| 135 | 64.4 | 342.3 | 120,900 | 213,100 |      |       |        |         |      |       |        |         | 135 |
| 140 | 62.5 | 339.6 | 114,300 | 203,300 |      |       |        |         |      |       |        |         | 140 |
| 145 | 60.6 | 336.7 | 108,200 | 194,300 |      |       |        |         |      |       |        |         | 145 |
| 150 | 58.7 | 333.6 | 102,400 | 185,900 |      |       |        |         |      |       |        |         | 150 |
| 155 | 56.7 | 330.3 | 97,000  | 178,100 |      |       |        |         |      |       |        |         | 155 |
| 160 | 54.7 | 326.7 | 92,000  | 170,800 |      |       |        |         |      |       |        |         | 160 |
| 165 | 52.6 | 322.8 | 87,300  | 163,900 | 58.8 | 328.7 | 71,000 | 151,500 |      |       |        |         | 165 |
| 170 | 50.4 | 318.6 | 82,800  | 157,500 | 56.8 | 325.3 | 67,000 | 145,500 |      |       |        |         | 170 |
| 175 | 48.2 | 314.1 | 78,600  | 151,400 | 54.8 | 321.7 | 63,300 | 139,800 |      |       |        |         | 175 |
| 180 | 45.9 | 309.2 | 74,600  | 145,700 | 52.7 | 317.9 | 59,800 | 134,400 |      |       |        |         | 180 |
| 185 | 43.5 | 303.8 | 70,900  | 140,300 | 50.5 | 313.7 | 56,500 | 129,400 |      |       |        |         | 185 |
| 190 | 41.0 | 298.0 | 67,300  | 135,200 | 48.3 | 309.2 | 53,300 | 124,600 | 54.7 | 315.1 | 39,700 | 114,300 | 190 |
| 195 | 38.3 | 291.7 | 63,800  | 130,300 | 46.0 | 304.3 | 50,300 | 120,000 | 52.6 | 311.3 | 37,100 | 110,100 | 195 |
| 200 | 35.5 | 284.7 | 60,600  | 125,700 | 43.6 | 299.0 | 47,400 | 115,700 | 50.4 | 307.1 | 34,600 | 106,000 | 200 |
| 205 | 32.4 | 276.8 | 57,400  | 121,300 | 41.1 | 293.2 | 44,700 | 111,600 | 48.2 | 302.5 | 32,200 | 102,200 | 205 |
| 210 | 29.0 | 267.9 | 54,400  | 117,100 | 38.4 | 286.9 | 42,100 | 107,700 | 45.9 | 297.6 | 29,900 | 98,500  | 210 |
| 215 | 25.2 | 257.4 | 51,500  | 113,100 | 35.6 | 279.9 | 39,500 | 104,000 | 43.5 | 292.3 | 27,700 | 95,000  | 215 |
| 220 | 20.7 | 244.8 | 48,600  | 109,200 | 32.6 | 272.1 | 37,100 | 100,400 | 41.0 | 286.5 | 25,600 | 91,700  | 220 |
| 225 | 14.9 | 227.7 | 45,700  | 105,400 | 29.2 | 263.2 | 34,700 | 96,900  | 38.3 | 280.2 | 23,600 | 88,500  | 225 |
| 230 |      |       |         |         | 25.4 | 252.9 | 32,400 | 93,600  | 35.5 | 273.1 | 21,700 | 85,400  | 230 |
| 240 |      |       |         |         | 15.2 | 223.6 | 27,800 | 87,300  | 29.0 | 256.3 |        | 79,600  | 240 |
| 250 |      |       |         |         |      |       |        |         | 20.7 | 233.2 |        | 74,200  | 250 |

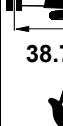
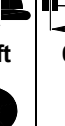
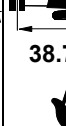
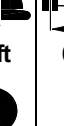
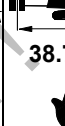
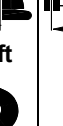
# MLC650 VPC-MAX S-1

ASME B30.5



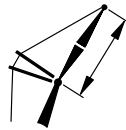
440,900 lb



| <br>85° |                                                                                        |                                                                                         |                                                                                         |                                                                                         | <br>83° |                                                                                        |                                                                                         |                                                                                         |                                                                                         | <br>80° |                                                                                         |                                                                                           |                                                                                           |                                                                                           |                                                                                           |     |
|------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-----|
| <br>ft   | <br>° | <br>ft | <br>lb | <br>lb |                                                                                          | <br>° | <br>ft | <br>lb | <br>lb |                                                                                            | <br>° | <br>ft | <br>lb | <br>lb | <br>ft |     |
| 80                                                                                       | 74.6                                                                                   | 378.9                                                                                   | 320,600                                                                                 | 332,300                                                                                 |                                                                                          |                                                                                        |                                                                                         |                                                                                         |                                                                                         |                                                                                            |                                                                                         |                                                                                           |                                                                                           |                                                                                           |                                                                                           | 80  |
| 85                                                                                       | 73.0                                                                                   | 377.4                                                                                   | 296,900                                                                                 | 332,300                                                                                 |                                                                                          |                                                                                        |                                                                                         |                                                                                         |                                                                                         |                                                                                            |                                                                                         |                                                                                           |                                                                                           |                                                                                           |                                                                                           | 85  |
| 90                                                                                       | 71.5                                                                                   | 375.6                                                                                   | 276,000                                                                                 | 331,800                                                                                 |                                                                                          |                                                                                        |                                                                                         |                                                                                         |                                                                                         |                                                                                            |                                                                                         |                                                                                           |                                                                                           |                                                                                           |                                                                                           | 90  |
| 95                                                                                       | 69.9                                                                                   | 373.8                                                                                   | 257,400                                                                                 | 331,100                                                                                 | 71.9                                                                                     | 375.3                                                                                  | 244,800                                                                                 | 330,500                                                                                 |                                                                                         |                                                                                            |                                                                                         |                                                                                           |                                                                                           |                                                                                           |                                                                                           | 95  |
| 100                                                                                      | 68.3                                                                                   | 371.7                                                                                   | 240,700                                                                                 | 330,100                                                                                 | 70.3                                                                                     | 373.5                                                                                  | 228,800                                                                                 | 330,500                                                                                 |                                                                                         |                                                                                            |                                                                                         |                                                                                           |                                                                                           |                                                                                           |                                                                                           | 100 |
| 105                                                                                      | 66.7                                                                                   | 369.5                                                                                   | 225,700                                                                                 | 328,800                                                                                 | 68.7                                                                                     | 371.5                                                                                  | 214,400                                                                                 | 322,600                                                                                 |                                                                                         |                                                                                            |                                                                                         |                                                                                           |                                                                                           |                                                                                           |                                                                                           | 105 |
| 110                                                                                      | 65.0                                                                                   | 367.1                                                                                   | 212,100                                                                                 | 312,800                                                                                 | 67.1                                                                                     | 369.3                                                                                  | 201,400                                                                                 | 304,500                                                                                 |                                                                                         |                                                                                            |                                                                                         |                                                                                           |                                                                                           |                                                                                           |                                                                                           | 110 |
| 115                                                                                      | 63.4                                                                                   | 364.6                                                                                   | 199,800                                                                                 | 296,000                                                                                 | 65.5                                                                                     | 367.0                                                                                  | 189,500                                                                                 | 288,200                                                                                 |                                                                                         | 68.6                                                                                       | 369.7                                                                                   | 174,200                                                                                   | 276,500                                                                                   |                                                                                           |                                                                                           | 115 |
| 120                                                                                      | 61.7                                                                                   | 361.8                                                                                   | 188,500                                                                                 | 280,700                                                                                 | 63.8                                                                                     | 364.5                                                                                  | 178,700                                                                                 | 273,300                                                                                 |                                                                                         | 67.0                                                                                       | 367.5                                                                                   | 164,100                                                                                   | 262,100                                                                                   |                                                                                           |                                                                                           | 120 |
| 125                                                                                      | 60.0                                                                                   | 358.9                                                                                   | 178,100                                                                                 | 266,800                                                                                 | 62.1                                                                                     | 361.8                                                                                  | 168,700                                                                                 | 259,600                                                                                 |                                                                                         | 65.3                                                                                       | 365.2                                                                                   | 154,700                                                                                   | 249,000                                                                                   |                                                                                           |                                                                                           | 125 |
| 130                                                                                      | 58.2                                                                                   | 355.7                                                                                   | 168,600                                                                                 | 254,000                                                                                 | 60.4                                                                                     | 358.9                                                                                  | 159,600                                                                                 | 247,100                                                                                 |                                                                                         | 63.7                                                                                       | 362.7                                                                                   | 146,100                                                                                   | 236,900                                                                                   |                                                                                           |                                                                                           | 130 |
| 135                                                                                      | 56.4                                                                                   | 352.3                                                                                   | 159,700                                                                                 | 242,200                                                                                 | 58.7                                                                                     | 355.8                                                                                  | 151,100                                                                                 | 235,600                                                                                 |                                                                                         | 62.0                                                                                       | 359.9                                                                                   | 138,200                                                                                   | 225,800                                                                                   |                                                                                           |                                                                                           | 135 |
| 140                                                                                      | 54.6                                                                                   | 348.7                                                                                   | 151,600                                                                                 | 231,200                                                                                 | 56.9                                                                                     | 352.5                                                                                  | 143,200                                                                                 | 224,900                                                                                 |                                                                                         | 60.3                                                                                       | 357.0                                                                                   | 130,800                                                                                   | 215,500                                                                                   |                                                                                           |                                                                                           | 140 |
| 145                                                                                      | 52.7                                                                                   | 344.9                                                                                   | 143,900                                                                                 | 221,100                                                                                 | 55.1                                                                                     | 349.0                                                                                  | 135,900                                                                                 | 215,000                                                                                 |                                                                                         | 58.5                                                                                       | 353.9                                                                                   | 124,000                                                                                   | 206,000                                                                                   |                                                                                           |                                                                                           | 145 |
| 150                                                                                      | 50.8                                                                                   | 340.8                                                                                   | 136,800                                                                                 | 211,700                                                                                 | 53.3                                                                                     | 345.2                                                                                  | 129,100                                                                                 | 205,900                                                                                 |                                                                                         | 56.8                                                                                       | 350.6                                                                                   | 117,600                                                                                   | 197,100                                                                                   |                                                                                           |                                                                                           | 150 |
| 155                                                                                      | 48.8                                                                                   | 336.3                                                                                   | 130,200                                                                                 | 202,900                                                                                 | 51.4                                                                                     | 341.1                                                                                  | 122,800                                                                                 | 197,300                                                                                 |                                                                                         | 54.9                                                                                       | 347.0                                                                                   | 111,600                                                                                   | 188,800                                                                                   |                                                                                           |                                                                                           | 155 |
| 160                                                                                      | 46.8                                                                                   | 331.6                                                                                   | 124,000                                                                                 | 194,700                                                                                 | 49.4                                                                                     | 336.8                                                                                  | 116,800                                                                                 | 189,300                                                                                 |                                                                                         | 53.1                                                                                       | 343.2                                                                                   | 106,100                                                                                   | 181,100                                                                                   |                                                                                           |                                                                                           | 160 |
| 165                                                                                      | 44.7                                                                                   | 326.5                                                                                   | 118,100                                                                                 | 187,000                                                                                 | 47.4                                                                                     | 332.2                                                                                  | 111,200                                                                                 | 181,800                                                                                 |                                                                                         | 51.2                                                                                       | 339.1                                                                                   | 100,800                                                                                   | 173,900                                                                                   |                                                                                           |                                                                                           | 165 |
| 170                                                                                      | 42.5                                                                                   | 321.0                                                                                   | 112,600                                                                                 | 179,800                                                                                 | 45.3                                                                                     | 327.2                                                                                  | 105,900                                                                                 | 174,700                                                                                 |                                                                                         | 49.2                                                                                       | 334.8                                                                                   | 95,900                                                                                    | 167,100                                                                                   |                                                                                           |                                                                                           | 170 |
| 175                                                                                      | 40.2                                                                                   | 315.0                                                                                   | 107,400                                                                                 | 173,000                                                                                 | 43.1                                                                                     | 321.8                                                                                  | 100,900                                                                                 | 168,100                                                                                 |                                                                                         | 47.2                                                                                       | 330.1                                                                                   | 91,200                                                                                    | 160,700                                                                                   |                                                                                           |                                                                                           | 175 |
| 180                                                                                      | 37.8                                                                                   | 308.6                                                                                   | 102,500                                                                                 | 166,600                                                                                 | 40.8                                                                                     | 315.9                                                                                  | 96,200                                                                                  | 161,800                                                                                 |                                                                                         | 45.1                                                                                       | 325.1                                                                                   | 86,800                                                                                    | 154,700                                                                                   |                                                                                           |                                                                                           | 180 |
| 185                                                                                      | 35.2                                                                                   | 301.5                                                                                   | 97,800                                                                                  | 160,600                                                                                 | 38.4                                                                                     | 309.6                                                                                  | 91,700                                                                                  | 155,900                                                                                 |                                                                                         | 42.9                                                                                       | 319.6                                                                                   | 82,600                                                                                    | 149,000                                                                                   |                                                                                           |                                                                                           | 185 |
| 190                                                                                      | 32.4                                                                                   | 293.6                                                                                   | 93,400                                                                                  | 154,800                                                                                 | 35.9                                                                                     | 302.7                                                                                  | 87,500                                                                                  | 150,300                                                                                 |                                                                                         | 40.6                                                                                       | 313.8                                                                                   | 78,600                                                                                    | 143,600                                                                                   |                                                                                           |                                                                                           | 190 |
| 195                                                                                      | 29.4                                                                                   | 284.8                                                                                   | 89,100                                                                                  | 149,400                                                                                 | 33.2                                                                                     | 295.1                                                                                  | 83,400                                                                                  | 145,000                                                                                 |                                                                                         | 38.2                                                                                       | 307.4                                                                                   | 74,800                                                                                    | 138,500                                                                                   |                                                                                           |                                                                                           | 195 |
| 200                                                                                      | 26.1                                                                                   | 274.8                                                                                   | 85,000                                                                                  | 144,200                                                                                 | 30.3                                                                                     | 286.6                                                                                  | 79,500                                                                                  | 139,900                                                                                 |                                                                                         | 35.7                                                                                       | 300.4                                                                                   | 71,200                                                                                    | 133,600                                                                                   |                                                                                           |                                                                                           | 200 |
| 205                                                                                      | 22.3                                                                                   | 262.9                                                                                   | 81,100                                                                                  | 139,200                                                                                 | 27.1                                                                                     | 276.9                                                                                  | 75,800                                                                                  | 135,100                                                                                 |                                                                                         | 33.0                                                                                       | 292.7                                                                                   | 67,800                                                                                    | 129,000                                                                                   |                                                                                           |                                                                                           | 205 |
| 210                                                                                      | 17.7                                                                                   | 248.2                                                                                   | 77,300                                                                                  | 134,500                                                                                 | 23.4                                                                                     | 265.7                                                                                  | 72,200                                                                                  | 130,500                                                                                 |                                                                                         | 30.0                                                                                       | 284.1                                                                                   | 64,500                                                                                    | 124,600                                                                                   |                                                                                           |                                                                                           | 210 |
| 215                                                                                      | 11.2                                                                                   | 226.7                                                                                   | 73,400                                                                                  | 129,900                                                                                 | 19.1                                                                                     | 251.9                                                                                  | 68,700                                                                                  | 126,100                                                                                 |                                                                                         | 26.8                                                                                       | 274.3                                                                                   | 61,300                                                                                    | 120,300                                                                                   |                                                                                           |                                                                                           | 215 |
| 220                                                                                      |                                                                                        |                                                                                         |                                                                                         |                                                                                         | 13.4                                                                                     | 233.1                                                                                  | 65,200                                                                                  | 121,800                                                                                 |                                                                                         | 23.1                                                                                       | 262.9                                                                                   | 58,200                                                                                    | 116,300                                                                                   |                                                                                           |                                                                                           | 220 |
| 225                                                                                      |                                                                                        |                                                                                         |                                                                                         |                                                                                         |                                                                                          |                                                                                        |                                                                                         |                                                                                         |                                                                                         | 18.6                                                                                       | 248.8                                                                                   | 55,100                                                                                    | 112,400                                                                                   |                                                                                           |                                                                                           | 225 |
| 230                                                                                      |                                                                                        |                                                                                         |                                                                                         |                                                                                         |                                                                                          |                                                                                        |                                                                                         |                                                                                         |                                                                                         | 12.6                                                                                       | 229.2                                                                                   | 52,100                                                                                    | 108,600                                                                                   |                                                                                           |                                                                                           | 230 |
| 240                                                                                      |                                                                                        |                                                                                         |                                                                                         |                                                                                         |                                                                                          |                                                                                        |                                                                                         |                                                                                         |                                                                                         |                                                                                            |                                                                                         |                                                                                           |                                                                                           |                                                                                           |                                                                                           | 240 |
| 250                                                                                      |                                                                                        |                                                                                         |                                                                                         |                                                                                         |                                                                                          |                                                                                        |                                                                                         |                                                                                         |                                                                                         |                                                                                            |                                                                                         |                                                                                           |                                                                                           |                                                                                           |                                                                                           | 250 |
| 260                                                                                      |                                                                                        |                                                                                         |                                                                                         |                                                                                         |                                                                                          |                                                                                        |                                                                                         |                                                                                         |                                                                                         |                                                                                            |                                                                                         |                                                                                           |                                                                                           |                                                                                           |                                                                                           | 260 |
| 270                                                                                      |                                                                                        |                                                                                         |                                                                                         |                                                                                         |                                                                                          |                                                                                        |                                                                                         |                                                                                         |                                                                                         |                                                                                            |                                                                                         |                                                                                           |                                                                                           |                                                                                           |                                                                                           | 270 |

# MLC650 VPC-MAX S-1

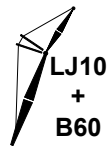
ASME B30.5



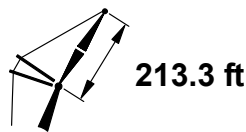
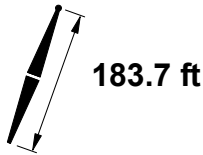
|     | 75°  |       |         |         | 70°  |       |        |         | 65°  |       |        |     |
|-----|------|-------|---------|---------|------|-------|--------|---------|------|-------|--------|-----|
|     | ft   | °     | ft      | lb      | lb   | ft    | lb     | lb      | ft   | °     | ft     | lb  |
| 80  |      |       |         |         |      |       |        |         |      |       |        | 80  |
| 85  |      |       |         |         |      |       |        |         |      |       |        | 85  |
| 90  |      |       |         |         |      |       |        |         |      |       |        | 90  |
| 95  |      |       |         |         |      |       |        |         |      |       |        | 95  |
| 100 |      |       |         |         |      |       |        |         |      |       |        | 100 |
| 105 |      |       |         |         |      |       |        |         |      |       |        | 105 |
| 110 |      |       |         |         |      |       |        |         |      |       |        | 110 |
| 115 |      |       |         |         |      |       |        |         |      |       |        | 115 |
| 120 |      |       |         |         |      |       |        |         |      |       |        | 120 |
| 125 |      |       |         |         |      |       |        |         |      |       |        | 125 |
| 130 |      |       |         |         |      |       |        |         |      |       |        | 130 |
| 135 |      |       |         |         |      |       |        |         |      |       |        | 135 |
| 140 |      |       |         |         |      |       |        |         |      |       |        | 140 |
| 145 | 63.9 | 359.2 | 104,300 | 191,100 |      |       |        |         |      |       |        | 145 |
| 150 | 62.2 | 356.6 | 98,700  | 182,800 |      |       |        |         |      |       |        | 150 |
| 155 | 60.5 | 353.7 | 93,300  | 175,000 |      |       |        |         |      |       |        | 155 |
| 160 | 58.8 | 350.6 | 88,400  | 167,700 |      |       |        |         |      |       |        | 160 |
| 165 | 57.0 | 347.3 | 83,700  | 160,900 |      |       |        |         |      |       |        | 165 |
| 170 | 55.2 | 343.7 | 79,300  | 154,500 |      |       |        |         |      |       |        | 170 |
| 175 | 53.3 | 340.0 | 75,100  | 148,500 | 58.8 | 345.6 | 59,400 | 136,600 |      |       |        | 175 |
| 180 | 51.4 | 335.9 | 71,200  | 142,900 | 57.1 | 342.3 | 55,900 | 131,300 |      |       |        | 180 |
| 185 | 49.5 | 331.6 | 67,500  | 137,500 | 55.3 | 338.8 | 52,700 | 126,300 |      |       |        | 185 |
| 190 | 47.4 | 327.0 | 64,000  | 132,400 | 53.4 | 335.1 | 49,600 | 121,600 |      |       |        | 190 |
| 195 | 45.3 | 322.0 | 60,600  | 127,600 | 51.5 | 331.0 | 46,600 | 117,100 |      |       |        | 195 |
| 200 | 43.2 | 316.6 | 57,400  | 123,100 | 49.6 | 326.7 | 43,800 | 112,800 |      |       |        | 200 |
| 205 | 40.9 | 310.8 | 54,400  | 118,800 | 47.5 | 322.1 | 41,100 | 108,800 | 53.3 | 328.5 | 99,000 | 205 |
| 210 | 38.5 | 304.5 | 51,400  | 114,600 | 45.5 | 317.1 | 38,600 | 104,900 | 51.4 | 324.4 | 95,400 | 210 |
| 215 | 36.0 | 297.6 | 48,600  | 110,700 | 43.3 | 311.8 | 36,100 | 101,200 | 49.5 | 320.1 | 92,000 | 215 |
| 220 | 33.3 | 290.0 | 46,000  | 106,900 | 41.0 | 306.0 | 33,800 | 97,700  | 47.4 | 315.4 | 88,700 | 220 |
| 225 | 30.4 | 281.5 | 43,400  | 103,300 | 38.6 | 299.7 | 31,500 | 94,300  | 45.3 | 310.5 | 85,600 | 225 |
| 230 | 27.2 | 271.9 | 40,800  | 99,900  | 36.1 | 292.8 | 29,400 | 91,100  | 43.2 | 305.1 | 82,600 | 230 |
| 240 | 19.3 | 247.0 | 36,000  | 93,300  | 30.5 | 276.9 | 25,200 | 85,000  | 38.5 | 293.0 | 76,900 | 240 |
| 250 |      |       |         |         | 23.8 | 256.2 | 21,300 | 79,400  | 33.3 | 278.5 | 71,700 | 250 |
| 260 |      |       |         |         | 13.9 | 224.5 |        | 74,000  | 27.2 | 260.4 | 66,800 | 260 |
| 270 |      |       |         |         |      |       |        |         | 19.2 | 235.5 | 62,200 | 270 |

# MLC650 VPC-MAX S-1

ASME B30.5



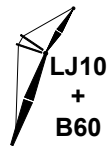
440,900 lb



|     | 85°  |       |         |         | 83°  |       |         |         | 80°  |       |         |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|---------|---------|-----|
|     |      |       |         |         |      |       |         |         |      |       |         |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | ft  |
| 85  | 74.6 | 398.0 | 282,700 | 282,700 |      |       |         |         |      |       |         |         | 85  |
| 90  | 73.2 | 396.4 | 272,900 | 282,700 |      |       |         |         |      |       |         |         | 90  |
| 95  | 71.8 | 394.7 | 254,400 | 282,500 |      |       |         |         |      |       |         |         | 95  |
| 100 | 70.4 | 392.9 | 237,700 | 281,900 | 72.2 | 394.4 | 225,500 | 280,200 |      |       |         |         | 100 |
| 105 | 68.9 | 390.9 | 222,700 | 281,200 | 70.8 | 392.7 | 211,100 | 280,200 |      |       |         |         | 105 |
| 110 | 67.5 | 388.8 | 209,200 | 280,200 | 69.4 | 390.7 | 198,100 | 280,200 |      |       |         |         | 110 |
| 115 | 66.0 | 386.6 | 196,800 | 279,100 | 67.9 | 388.6 | 186,300 | 280,200 |      |       |         |         | 115 |
| 120 | 64.5 | 384.1 | 185,500 | 277,800 | 66.4 | 386.4 | 175,500 | 270,300 | 69.2 | 388.9 | 160,500 | 258,900 | 120 |
| 125 | 63.0 | 381.5 | 175,200 | 264,000 | 64.9 | 384.0 | 165,600 | 256,700 | 67.8 | 386.8 | 151,200 | 245,800 | 125 |
| 130 | 61.5 | 378.8 | 165,700 | 251,200 | 63.4 | 381.5 | 156,400 | 244,200 | 66.3 | 384.6 | 142,700 | 233,800 | 130 |
| 135 | 59.9 | 375.8 | 156,900 | 239,500 | 61.9 | 378.8 | 148,000 | 232,800 | 64.8 | 382.2 | 134,800 | 222,800 | 135 |
| 140 | 58.3 | 372.7 | 148,700 | 228,600 | 60.3 | 375.9 | 140,200 | 222,200 | 63.3 | 379.6 | 127,500 | 212,600 | 140 |
| 145 | 56.7 | 369.4 | 141,100 | 218,500 | 58.8 | 372.8 | 132,900 | 212,300 | 61.8 | 376.9 | 120,600 | 203,100 | 145 |
| 150 | 55.1 | 365.8 | 134,000 | 209,200 | 57.2 | 369.5 | 126,100 | 203,200 | 60.2 | 374.0 | 114,300 | 194,300 | 150 |
| 155 | 53.4 | 362.1 | 127,400 | 200,400 | 55.5 | 366.0 | 119,800 | 194,700 | 58.6 | 370.9 | 108,400 | 186,000 | 155 |
| 160 | 51.7 | 358.1 | 121,200 | 192,300 | 53.9 | 362.3 | 113,800 | 186,700 | 57.0 | 367.6 | 102,800 | 178,400 | 160 |
| 165 | 49.9 | 353.8 | 115,400 | 184,600 | 52.2 | 358.4 | 108,300 | 179,200 | 55.4 | 364.1 | 97,600  | 171,200 | 165 |
| 170 | 48.1 | 349.3 | 109,900 | 177,400 | 50.4 | 354.2 | 103,000 | 172,200 | 53.7 | 360.4 | 92,700  | 164,400 | 170 |
| 175 | 46.2 | 344.4 | 104,800 | 170,700 | 48.6 | 349.8 | 98,100  | 165,600 | 52.0 | 356.4 | 88,100  | 158,000 | 175 |
| 180 | 44.3 | 339.3 | 99,900  | 164,300 | 46.7 | 345.0 | 93,400  | 159,400 | 50.2 | 352.2 | 83,700  | 152,100 | 180 |
| 185 | 42.3 | 333.7 | 95,300  | 158,300 | 44.8 | 339.9 | 89,000  | 153,500 | 48.4 | 347.7 | 79,500  | 146,400 | 185 |
| 190 | 40.2 | 327.8 | 90,900  | 152,600 | 42.9 | 334.5 | 84,800  | 148,000 | 46.6 | 342.9 | 75,600  | 141,000 | 190 |
| 195 | 38.0 | 321.4 | 86,700  | 147,200 | 40.8 | 328.7 | 80,800  | 142,700 | 44.6 | 337.8 | 71,900  | 136,000 | 195 |
| 200 | 35.7 | 314.4 | 82,700  | 142,100 | 38.6 | 322.4 | 77,000  | 137,700 | 42.7 | 332.4 | 68,300  | 131,200 | 200 |
| 205 | 33.3 | 306.8 | 78,900  | 137,200 | 36.4 | 315.6 | 73,300  | 133,000 | 40.6 | 326.5 | 64,900  | 126,600 | 205 |
| 210 | 30.6 | 298.4 | 75,300  | 132,600 | 34.0 | 308.2 | 69,900  | 128,400 | 38.4 | 320.2 | 61,700  | 122,200 | 210 |
| 215 | 27.8 | 289.0 | 71,800  | 128,100 | 31.4 | 300.0 | 66,500  | 124,100 | 36.1 | 313.3 | 58,600  | 118,100 | 215 |
| 220 | 24.6 | 278.3 | 68,500  | 123,900 | 28.6 | 290.9 | 63,300  | 120,000 | 33.7 | 305.8 | 55,600  | 114,100 | 220 |
| 225 | 20.9 | 265.6 | 65,200  | 119,800 | 25.5 | 280.6 | 60,300  | 116,000 | 31.1 | 297.6 | 52,800  | 110,300 | 225 |
| 230 | 16.5 | 249.8 | 62,000  | 115,900 | 22.0 | 268.6 | 57,300  | 112,200 | 28.3 | 288.4 | 50,000  | 106,700 | 230 |
| 240 |      |       |         |         | 12.2 | 233.5 | 51,400  | 104,900 | 21.7 | 265.7 | 44,700  | 99,800  | 240 |
| 250 |      |       |         |         |      |       |         |         | 11.5 | 229.4 | 39,500  | 93,300  | 250 |
| 260 |      |       |         |         |      |       |         |         |      |       |         |         | 260 |
| 270 |      |       |         |         |      |       |         |         |      |       |         |         | 270 |
| 280 |      |       |         |         |      |       |         |         |      |       |         |         | 280 |
| 290 |      |       |         |         |      |       |         |         |      |       |         |         | 290 |

# MLC650 VPC-MAX S-1

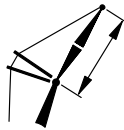
ASME B30.5



440,900 lb



183.7 ft

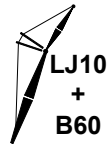


213.3 ft

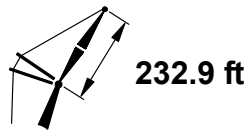
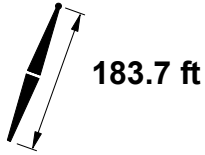
|     | 75°  |       |        |         | 70°  |       |        |         | 65°  |       |        |     |
|-----|------|-------|--------|---------|------|-------|--------|---------|------|-------|--------|-----|
|     |      |       |        |         |      |       |        |         |      |       |        |     |
| ft  | °    | ft    | lb     | lb      | °    | ft    | lb     | lb      | °    | ft    | lb     | ft  |
| 85  |      |       |        |         |      |       |        |         |      |       |        | 85  |
| 90  |      |       |        |         |      |       |        |         |      |       |        | 90  |
| 95  |      |       |        |         |      |       |        |         |      |       |        | 95  |
| 100 |      |       |        |         |      |       |        |         |      |       |        | 100 |
| 105 |      |       |        |         |      |       |        |         |      |       |        | 105 |
| 110 |      |       |        |         |      |       |        |         |      |       |        | 110 |
| 115 |      |       |        |         |      |       |        |         |      |       |        | 115 |
| 120 |      |       |        |         |      |       |        |         |      |       |        | 120 |
| 125 |      |       |        |         |      |       |        |         |      |       |        | 125 |
| 130 |      |       |        |         |      |       |        |         |      |       |        | 130 |
| 135 |      |       |        |         |      |       |        |         |      |       |        | 135 |
| 140 |      |       |        |         |      |       |        |         |      |       |        | 140 |
| 145 |      |       |        |         |      |       |        |         |      |       |        | 145 |
| 150 | 65.0 | 378.8 | 94,900 | 179,600 |      |       |        |         |      |       |        | 150 |
| 155 | 63.5 | 376.2 | 89,600 | 171,900 |      |       |        |         |      |       |        | 155 |
| 160 | 61.9 | 373.5 | 84,700 | 164,700 |      |       |        |         |      |       |        | 160 |
| 165 | 60.4 | 370.6 | 80,000 | 157,900 |      |       |        |         |      |       |        | 165 |
| 170 | 58.8 | 367.5 | 75,700 | 151,600 |      |       |        |         |      |       |        | 170 |
| 175 | 57.2 | 364.3 | 71,600 | 145,600 |      |       |        |         |      |       |        | 175 |
| 180 | 55.6 | 360.8 | 67,700 | 140,000 |      |       |        |         |      |       |        | 180 |
| 185 | 53.9 | 357.1 | 64,000 | 134,700 | 58.9 | 362.6 | 48,800 | 123,200 |      |       |        | 185 |
| 190 | 52.2 | 353.2 | 60,500 | 129,600 | 57.3 | 359.3 | 45,700 | 118,500 |      |       |        | 190 |
| 195 | 50.5 | 349.0 | 57,200 | 124,900 | 55.7 | 355.9 | 42,800 | 114,100 |      |       |        | 195 |
| 200 | 48.7 | 344.6 | 54,100 | 120,400 | 54.0 | 352.2 | 40,100 | 109,800 |      |       |        | 200 |
| 205 | 46.8 | 339.8 | 51,100 | 116,100 | 52.3 | 348.3 | 37,500 | 105,800 |      |       |        | 205 |
| 210 | 44.9 | 334.8 | 48,200 | 112,000 | 50.5 | 344.1 | 34,900 | 102,000 |      |       |        | 210 |
| 215 | 42.9 | 329.3 | 45,500 | 108,100 | 48.7 | 339.7 | 32,500 | 98,400  | 53.9 | 345.6 | 88,900 | 215 |
| 220 | 40.9 | 323.5 | 42,900 | 104,400 | 46.9 | 335.0 | 30,300 | 94,900  | 52.2 | 341.7 | 85,700 | 220 |
| 225 | 38.7 | 317.3 | 40,300 | 100,800 | 45.0 | 329.9 | 28,100 | 91,600  | 50.5 | 337.5 | 82,600 | 225 |
| 230 | 36.4 | 310.5 | 37,900 | 97,400  | 43.0 | 324.5 | 25,900 | 88,400  | 48.7 | 333.0 | 79,600 | 230 |
| 240 | 31.5 | 294.9 | 33,300 | 91,100  | 38.8 | 312.5 | 22,000 | 82,400  | 44.9 | 323.2 | 74,000 | 240 |
| 250 | 25.6 | 275.6 | 29,000 | 85,100  | 34.2 | 298.4 |        | 76,900  | 40.9 | 312.0 | 68,900 | 250 |
| 260 | 18.0 | 249.0 | 24,900 | 79,600  | 28.8 | 281.2 |        | 71,800  | 36.4 | 299.0 | 64,200 | 260 |
| 270 |      |       |        |         | 22.3 | 259.2 |        | 67,000  | 31.5 | 283.4 | 59,800 | 270 |
| 280 |      |       |        |         | 12.8 | 225.1 |        | 62,400  | 25.6 | 264.1 | 55,600 | 280 |
| 290 |      |       |        |         |      |       |        |         | 18.0 | 237.5 | 51,600 | 290 |

# MLC650 VPC-MAX S-1

ASME B30.5



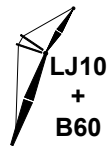
440,900 lb



|     | 85°  |       |         |         | 83°  |       |         |         | 80°  |       |         |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|---------|---------|-----|
|     |      |       |         |         |      |       |         |         |      |       |         |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | ft  |
| 90  | 74.7 | 417.0 | 241,600 | 241,600 |      |       |         |         |      |       |         |         | 90  |
| 95  | 73.4 | 415.5 | 241,400 | 241,400 |      |       |         |         |      |       |         |         | 95  |
| 100 | 72.1 | 413.8 | 235,600 | 241,100 |      |       |         |         |      |       |         |         | 100 |
| 105 | 70.8 | 412.1 | 220,700 | 240,500 | 72.5 | 413.5 | 208,900 | 238,400 |      |       |         |         | 105 |
| 110 | 69.5 | 410.2 | 207,100 | 239,900 | 71.2 | 411.8 | 195,900 | 238,400 |      |       |         |         | 110 |
| 115 | 68.2 | 408.1 | 194,800 | 239,100 | 69.9 | 409.9 | 184,100 | 238,400 |      |       |         |         | 115 |
| 120 | 66.8 | 405.9 | 183,500 | 238,200 | 68.5 | 407.9 | 173,300 | 238,400 |      |       |         |         | 120 |
| 125 | 65.5 | 403.6 | 173,200 | 237,100 | 67.2 | 405.8 | 163,400 | 238,200 | 69.7 | 408.1 | 148,800 | 230,600 | 125 |
| 130 | 64.1 | 401.1 | 163,700 | 236,000 | 65.8 | 403.5 | 154,300 | 237,800 | 68.4 | 406.1 | 140,200 | 230,600 | 130 |
| 135 | 62.7 | 398.5 | 154,900 | 234,800 | 64.5 | 401.0 | 145,900 | 230,700 | 67.1 | 404.0 | 132,400 | 220,500 | 135 |
| 140 | 61.3 | 395.7 | 146,800 | 226,700 | 63.1 | 398.5 | 138,100 | 220,100 | 65.7 | 401.7 | 125,100 | 210,300 | 140 |
| 145 | 59.9 | 392.8 | 139,200 | 216,700 | 61.7 | 395.7 | 130,800 | 210,300 | 64.3 | 399.2 | 118,300 | 200,900 | 145 |
| 150 | 58.4 | 389.7 | 132,100 | 207,300 | 60.3 | 392.8 | 124,000 | 201,200 | 63.0 | 396.6 | 112,000 | 192,200 | 150 |
| 155 | 57.0 | 386.4 | 125,600 | 198,600 | 58.8 | 389.8 | 117,700 | 192,800 | 61.6 | 393.9 | 106,100 | 184,000 | 155 |
| 160 | 55.5 | 382.9 | 119,400 | 190,500 | 57.4 | 386.5 | 111,800 | 184,800 | 60.1 | 390.9 | 100,600 | 176,300 | 160 |
| 165 | 53.9 | 379.2 | 113,600 | 182,900 | 55.9 | 383.1 | 106,300 | 177,400 | 58.7 | 387.9 | 95,400  | 169,200 | 165 |
| 170 | 52.4 | 375.3 | 108,100 | 175,700 | 54.4 | 379.4 | 101,100 | 170,400 | 57.2 | 384.6 | 90,500  | 162,500 | 170 |
| 175 | 50.8 | 371.2 | 103,000 | 169,000 | 52.8 | 375.6 | 96,100  | 163,900 | 55.7 | 381.1 | 85,900  | 156,100 | 175 |
| 180 | 49.1 | 366.8 | 98,100  | 162,700 | 51.2 | 371.5 | 91,500  | 157,700 | 54.2 | 377.5 | 81,500  | 150,200 | 180 |
| 185 | 47.5 | 362.2 | 93,600  | 156,700 | 49.6 | 367.2 | 87,100  | 151,800 | 52.7 | 373.6 | 77,400  | 144,600 | 185 |
| 190 | 45.7 | 357.3 | 89,200  | 151,000 | 47.9 | 362.7 | 82,900  | 146,300 | 51.1 | 369.5 | 73,500  | 139,200 | 190 |
| 195 | 44.0 | 352.0 | 85,100  | 145,700 | 46.2 | 357.9 | 79,000  | 141,100 | 49.4 | 365.2 | 69,800  | 134,200 | 195 |
| 200 | 42.1 | 346.5 | 81,100  | 140,600 | 44.5 | 352.7 | 75,200  | 136,100 | 47.8 | 360.6 | 66,300  | 129,400 | 200 |
| 205 | 40.2 | 340.5 | 77,400  | 135,700 | 42.6 | 347.3 | 71,600  | 131,400 | 46.1 | 355.8 | 63,000  | 124,900 | 205 |
| 210 | 38.2 | 334.2 | 73,800  | 131,100 | 40.8 | 341.4 | 68,200  | 126,900 | 44.3 | 350.6 | 59,800  | 120,500 | 210 |
| 215 | 36.1 | 327.3 | 70,400  | 126,700 | 38.8 | 335.2 | 64,900  | 122,600 | 42.5 | 345.1 | 56,700  | 116,400 | 215 |
| 220 | 33.9 | 319.9 | 67,100  | 122,600 | 36.7 | 328.5 | 61,800  | 118,500 | 40.6 | 339.3 | 53,800  | 112,500 | 220 |
| 225 | 31.6 | 311.8 | 64,000  | 118,500 | 34.6 | 321.2 | 58,800  | 114,600 | 38.6 | 333.0 | 51,000  | 108,700 | 225 |
| 230 | 29.1 | 302.8 | 60,900  | 114,700 | 32.3 | 313.3 | 55,900  | 110,900 | 36.5 | 326.2 | 48,300  | 105,100 | 230 |
| 240 | 23.3 | 281.5 | 55,200  | 107,500 | 27.1 | 295.0 | 50,400  | 103,800 | 32.0 | 310.9 | 43,300  | 98,400  | 240 |
| 250 | 15.4 | 251.1 | 49,700  | 100,700 | 20.8 | 271.2 | 45,300  | 97,300  | 26.8 | 292.4 | 38,500  | 92,100  | 250 |
| 260 |      |       |         |         | 11.2 | 233.6 | 40,200  | 91,200  | 20.4 | 268.3 | 34,000  | 86,300  | 260 |
| 270 |      |       |         |         |      |       |         |         | 10.5 | 229.2 | 29,500  | 80,800  | 270 |
| 280 |      |       |         |         |      |       |         |         |      |       |         |         | 280 |
| 290 |      |       |         |         |      |       |         |         |      |       |         |         | 290 |
| 300 |      |       |         |         |      |       |         |         |      |       |         |         | 300 |
| 310 |      |       |         |         |      |       |         |         |      |       |         |         | 310 |

# MLC650 VPC-MAX S-1

ASME B30.5



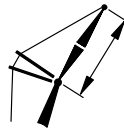
440,900 lb



360°



183.7 ft

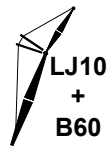


232.9 ft

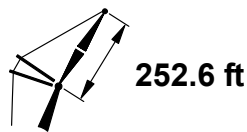
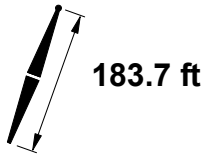
|     | 75°  |       |        |         | 70°  |       |        |         | 65°  |       |        |     |
|-----|------|-------|--------|---------|------|-------|--------|---------|------|-------|--------|-----|
|     |      |       |        |         |      |       |        |         |      |       |        |     |
| ft  | °    | ft    | lb     | lb      | °    | ft    | lb     | lb      | °    | ft    | lb     | ft  |
| 90  |      |       |        |         |      |       |        |         |      |       |        | 90  |
| 95  |      |       |        |         |      |       |        |         |      |       |        | 95  |
| 100 |      |       |        |         |      |       |        |         |      |       |        | 100 |
| 105 |      |       |        |         |      |       |        |         |      |       |        | 105 |
| 110 |      |       |        |         |      |       |        |         |      |       |        | 110 |
| 115 |      |       |        |         |      |       |        |         |      |       |        | 115 |
| 120 |      |       |        |         |      |       |        |         |      |       |        | 120 |
| 125 |      |       |        |         |      |       |        |         |      |       |        | 125 |
| 130 |      |       |        |         |      |       |        |         |      |       |        | 130 |
| 135 |      |       |        |         |      |       |        |         |      |       |        | 135 |
| 140 |      |       |        |         |      |       |        |         |      |       |        | 140 |
| 145 |      |       |        |         |      |       |        |         |      |       |        | 145 |
| 150 |      |       |        |         |      |       |        |         |      |       |        | 150 |
| 155 |      |       |        |         |      |       |        |         |      |       |        | 155 |
| 160 | 64.5 | 395.8 | 82,000 | 162,400 |      |       |        |         |      |       |        | 160 |
| 165 | 63.1 | 393.2 | 77,400 | 155,700 |      |       |        |         |      |       |        | 165 |
| 170 | 61.7 | 390.5 | 73,100 | 149,400 |      |       |        |         |      |       |        | 170 |
| 175 | 60.3 | 387.6 | 69,000 | 143,500 |      |       |        |         |      |       |        | 175 |
| 180 | 58.9 | 384.5 | 65,200 | 137,900 |      |       |        |         |      |       |        | 180 |
| 185 | 57.4 | 381.3 | 61,600 | 132,600 |      |       |        |         |      |       |        | 185 |
| 190 | 55.9 | 377.8 | 58,100 | 127,600 |      |       |        |         |      |       |        | 190 |
| 195 | 54.4 | 374.2 | 54,800 | 122,900 | 58.9 | 379.6 | 40,100 | 111,800 |      |       |        | 195 |
| 200 | 52.9 | 370.4 | 51,700 | 118,400 | 57.5 | 376.3 | 37,400 | 107,700 |      |       |        | 200 |
| 205 | 51.3 | 366.3 | 48,800 | 114,200 | 56.0 | 372.9 | 34,800 | 103,700 |      |       |        | 205 |
| 210 | 49.6 | 362.0 | 45,900 | 110,100 | 54.5 | 369.3 | 32,300 | 99,900  |      |       |        | 210 |
| 215 | 48.0 | 357.5 | 43,200 | 106,200 | 52.9 | 365.5 | 30,000 | 96,300  |      |       |        | 215 |
| 220 | 46.3 | 352.7 | 40,700 | 102,600 | 51.3 | 361.4 | 27,700 | 92,900  |      |       |        | 220 |
| 225 | 44.5 | 347.5 | 38,200 | 99,000  | 49.7 | 357.2 | 25,600 | 89,600  | 54.4 | 362.7 | 80,400 | 225 |
| 230 | 42.7 | 342.1 | 35,800 | 95,700  | 48.1 | 352.6 | 23,500 | 86,400  | 52.9 | 358.9 | 77,400 | 230 |
| 240 | 38.8 | 330.0 | 31,300 | 89,400  | 44.6 | 342.7 |        | 80,500  | 49.6 | 350.5 | 72,000 | 240 |
| 250 | 34.6 | 316.1 | 27,200 | 83,600  | 40.9 | 331.5 |        | 75,100  | 46.3 | 341.2 | 66,900 | 250 |
| 260 | 29.9 | 299.6 | 23,300 | 78,200  | 36.9 | 318.6 |        | 70,100  | 42.7 | 330.6 | 62,200 | 260 |
| 270 | 24.3 | 279.0 |        | 73,100  | 32.4 | 303.5 |        | 65,400  | 38.8 | 318.5 | 57,900 | 270 |
| 280 | 16.9 | 250.7 |        | 68,400  | 27.3 | 285.3 |        | 61,100  | 34.6 | 304.6 | 53,800 | 280 |
| 290 |      |       |        |         | 21.1 | 261.9 |        | 56,900  | 29.9 | 288.0 | 50,100 | 290 |
| 300 |      |       |        |         | 11.8 | 225.4 |        | 52,900  | 24.2 | 267.5 | 46,500 | 300 |
| 310 |      |       |        |         |      |       |        |         | 16.9 | 239.2 | 43,000 | 310 |

# MLC650 VPC-MAX S-1

ASME B30.5



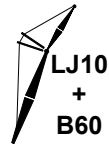
440,900 lb



|     | 85°  |       |         |         | 83°  |       |         |         | 80°  |       |         |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|---------|---------|-----|
|     |      |       |         |         |      |       |         |         |      |       |         |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | ft  |
| 95  | 74.7 | 436.1 | 207,100 | 207,100 |      |       |         |         |      |       |         |         | 95  |
| 100 | 73.6 | 434.6 | 206,800 | 206,800 |      |       |         |         |      |       |         |         | 100 |
| 105 | 72.4 | 432.9 | 206,400 | 206,400 |      |       |         |         |      |       |         |         | 105 |
| 110 | 71.2 | 431.2 | 203,700 | 205,800 | 72.7 | 432.6 | 192,200 | 204,000 |      |       |         |         | 110 |
| 115 | 70.0 | 429.3 | 191,400 | 205,100 | 71.5 | 430.9 | 180,400 | 203,900 |      |       |         |         | 115 |
| 120 | 68.7 | 427.3 | 180,100 | 204,300 | 70.3 | 429.1 | 169,700 | 203,700 |      |       |         |         | 120 |
| 125 | 67.5 | 425.2 | 169,800 | 203,500 | 69.1 | 427.1 | 159,800 | 203,500 |      |       |         |         | 125 |
| 130 | 66.3 | 423.0 | 160,300 | 202,600 | 67.9 | 425.0 | 150,700 | 203,200 |      |       |         |         | 130 |
| 135 | 65.0 | 420.6 | 151,600 | 201,700 | 66.6 | 422.8 | 142,300 | 202,700 | 69.0 | 425.3 | 128,600 | 197,200 | 135 |
| 140 | 63.7 | 418.1 | 143,400 | 200,600 | 65.4 | 420.5 | 134,500 | 202,200 | 67.7 | 423.2 | 121,300 | 197,200 | 140 |
| 145 | 62.5 | 415.5 | 135,900 | 199,600 | 64.1 | 418.0 | 127,300 | 201,700 | 66.5 | 421.0 | 114,600 | 197,200 | 145 |
| 150 | 61.2 | 412.7 | 128,900 | 198,400 | 62.8 | 415.4 | 120,600 | 198,300 | 65.2 | 418.7 | 108,300 | 189,000 | 150 |
| 155 | 59.8 | 409.7 | 122,300 | 195,800 | 61.5 | 412.7 | 114,300 | 189,800 | 64.0 | 416.2 | 102,400 | 180,900 | 155 |
| 160 | 58.5 | 406.6 | 116,100 | 187,700 | 60.2 | 409.8 | 108,400 | 181,900 | 62.7 | 413.6 | 96,900  | 173,300 | 160 |
| 165 | 57.2 | 403.4 | 110,400 | 180,100 | 58.9 | 406.7 | 102,900 | 174,500 | 61.4 | 410.8 | 91,700  | 166,200 | 165 |
| 170 | 55.8 | 399.9 | 104,900 | 173,000 | 57.5 | 403.5 | 97,700  | 167,600 | 60.1 | 407.9 | 86,900  | 159,500 | 170 |
| 175 | 54.4 | 396.3 | 99,800  | 166,300 | 56.2 | 400.1 | 92,800  | 161,100 | 58.8 | 404.8 | 82,300  | 153,200 | 175 |
| 180 | 53.0 | 392.5 | 95,000  | 160,000 | 54.8 | 396.5 | 88,200  | 154,900 | 57.4 | 401.6 | 78,000  | 147,300 | 180 |
| 185 | 51.5 | 388.5 | 90,400  | 154,100 | 53.4 | 392.8 | 83,800  | 149,100 | 56.0 | 398.2 | 73,900  | 141,700 | 185 |
| 190 | 50.0 | 384.2 | 86,100  | 148,400 | 51.9 | 388.8 | 79,600  | 143,600 | 54.6 | 394.6 | 70,000  | 136,400 | 190 |
| 195 | 48.5 | 379.8 | 82,000  | 143,100 | 50.4 | 384.6 | 75,700  | 138,400 | 53.2 | 390.8 | 66,400  | 131,400 | 195 |
| 200 | 46.9 | 375.0 | 78,100  | 138,000 | 48.9 | 380.2 | 72,000  | 133,500 | 51.8 | 386.8 | 62,900  | 126,600 | 200 |
| 205 | 45.3 | 370.1 | 74,400  | 133,200 | 47.4 | 375.6 | 68,400  | 128,800 | 50.3 | 382.6 | 59,600  | 122,100 | 205 |
| 210 | 43.7 | 364.8 | 70,800  | 128,600 | 45.8 | 370.7 | 65,000  | 124,300 | 48.8 | 378.2 | 56,400  | 117,800 | 210 |
| 215 | 42.0 | 359.2 | 67,400  | 124,300 | 44.2 | 365.5 | 61,800  | 120,000 | 47.2 | 373.5 | 53,400  | 113,700 | 215 |
| 220 | 40.2 | 353.3 | 64,200  | 120,100 | 42.5 | 360.0 | 58,700  | 116,000 | 45.6 | 368.6 | 50,500  | 109,800 | 220 |
| 225 | 38.4 | 346.9 | 61,100  | 116,100 | 40.7 | 354.2 | 55,700  | 112,100 | 44.0 | 363.4 | 47,700  | 106,100 | 225 |
| 230 | 36.5 | 340.2 | 58,100  | 112,300 | 38.9 | 348.0 | 52,900  | 108,400 | 42.3 | 357.9 | 45,100  | 102,500 | 230 |
| 240 | 32.4 | 325.0 | 52,500  | 105,200 | 35.1 | 334.2 | 47,600  | 101,400 | 38.7 | 345.7 | 40,100  | 95,800  | 240 |
| 250 | 27.7 | 307.0 | 47,300  | 98,600  | 30.8 | 318.1 | 42,600  | 95,000  | 34.9 | 331.9 | 35,500  | 89,700  | 250 |
| 260 | 22.1 | 284.4 | 42,400  | 92,500  | 25.8 | 298.7 | 37,900  | 89,100  | 30.5 | 315.7 | 31,200  | 84,000  | 260 |
| 270 | 14.4 | 252.2 | 37,700  | 86,800  | 19.7 | 273.6 | 33,500  | 83,500  | 25.5 | 296.1 | 27,100  | 78,700  | 270 |
| 280 |      |       |         |         | 10.3 | 233.4 | 29,100  | 78,200  | 19.3 | 270.6 | 23,200  | 73,700  | 280 |
| 290 |      |       |         |         |      |       |         |         | 9.6  | 228.8 |         | 68,900  | 290 |
| 300 |      |       |         |         |      |       |         |         |      |       |         |         | 300 |
| 310 |      |       |         |         |      |       |         |         |      |       |         |         | 310 |
| 320 |      |       |         |         |      |       |         |         |      |       |         |         | 320 |
| 330 |      |       |         |         |      |       |         |         |      |       |         |         | 330 |

# MLC650 VPC-MAX S-1

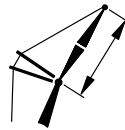
ASME B30.5



440,900 lb



183.7 ft

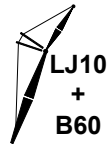


252.6 ft

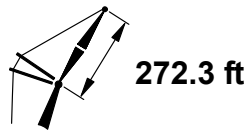
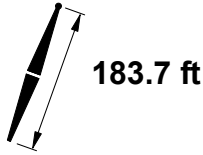
|     | 75°  |       |        |         | 70°  |       |         |      | 65°   |        |    |     |
|-----|------|-------|--------|---------|------|-------|---------|------|-------|--------|----|-----|
|     |      |       |        |         |      |       |         |      |       |        |    |     |
|     | ft   | °     | ft     | lb      | lb   | °     | ft      | lb   | °     | ft     | lb | ft  |
| 95  |      |       |        |         |      |       |         |      |       |        |    | 95  |
| 100 |      |       |        |         |      |       |         |      |       |        |    | 100 |
| 105 |      |       |        |         |      |       |         |      |       |        |    | 105 |
| 110 |      |       |        |         |      |       |         |      |       |        |    | 110 |
| 115 |      |       |        |         |      |       |         |      |       |        |    | 115 |
| 120 |      |       |        |         |      |       |         |      |       |        |    | 120 |
| 125 |      |       |        |         |      |       |         |      |       |        |    | 125 |
| 130 |      |       |        |         |      |       |         |      |       |        |    | 130 |
| 135 |      |       |        |         |      |       |         |      |       |        |    | 135 |
| 140 |      |       |        |         |      |       |         |      |       |        |    | 140 |
| 145 |      |       |        |         |      |       |         |      |       |        |    | 145 |
| 150 |      |       |        |         |      |       |         |      |       |        |    | 150 |
| 155 |      |       |        |         |      |       |         |      |       |        |    | 155 |
| 160 |      |       |        |         |      |       |         |      |       |        |    | 160 |
| 165 |      |       |        |         |      |       |         |      |       |        |    | 165 |
| 170 | 64.1 | 412.8 | 69,100 | 146,100 |      |       |         |      |       |        |    | 170 |
| 175 | 62.9 | 410.2 | 65,100 | 140,300 |      |       |         |      |       |        |    | 175 |
| 180 | 61.6 | 407.4 | 61,300 | 134,700 |      |       |         |      |       |        |    | 180 |
| 185 | 60.3 | 404.5 | 57,700 | 129,500 |      |       |         |      |       |        |    | 185 |
| 190 | 58.9 | 401.5 | 54,200 | 124,500 |      |       |         |      |       |        |    | 190 |
| 195 | 57.6 | 398.2 | 51,000 | 119,800 |      |       |         |      |       |        |    | 195 |
| 200 | 56.2 | 394.9 | 47,900 | 115,400 |      |       |         |      |       |        |    | 200 |
| 205 | 54.8 | 391.3 | 45,000 | 111,200 | 59.0 | 396.5 | 100,500 |      |       |        |    | 205 |
| 210 | 53.4 | 387.5 | 42,200 | 107,100 | 57.6 | 393.3 | 96,700  |      |       |        |    | 210 |
| 215 | 51.9 | 383.6 | 39,500 | 103,300 | 56.3 | 389.9 | 93,100  |      |       |        |    | 215 |
| 220 | 50.5 | 379.4 | 37,000 | 99,700  | 54.9 | 386.4 | 89,700  |      |       |        |    | 220 |
| 225 | 49.0 | 375.0 | 34,600 | 96,200  | 53.5 | 382.6 | 86,500  |      |       |        |    | 225 |
| 230 | 47.4 | 370.4 | 32,200 | 92,800  | 52.0 | 378.7 | 83,400  |      |       |        |    | 230 |
| 240 | 44.2 | 360.3 | 27,800 | 86,600  | 49.0 | 370.2 | 77,500  | 53.4 | 376.0 | 68,800 |    | 240 |
| 250 | 40.8 | 349.0 | 23,800 | 80,800  | 45.9 | 360.7 | 72,200  | 50.5 | 367.9 | 63,800 |    | 250 |
| 260 | 37.1 | 336.2 | 20,000 | 75,500  | 42.6 | 350.0 | 67,200  | 47.4 | 358.9 | 59,200 |    | 260 |
| 270 | 33.0 | 321.4 |        | 70,600  | 39.1 | 338.0 | 62,600  | 44.2 | 348.8 | 54,900 |    | 270 |
| 280 | 28.5 | 303.9 |        | 66,000  | 35.2 | 324.3 | 58,300  | 40.8 | 337.5 | 50,900 |    | 280 |
| 290 | 23.0 | 282.2 |        | 61,600  | 30.9 | 308.4 | 54,300  | 37.1 | 324.7 | 47,200 |    | 290 |
| 300 | 15.9 | 252.2 |        | 57,500  | 26.0 | 289.1 | 50,600  | 33.0 | 309.9 | 43,700 |    | 300 |
| 310 |      |       |        |         | 20.0 | 264.4 | 47,000  | 28.5 | 292.4 | 40,400 |    | 310 |
| 320 |      |       |        |         | 10.8 | 225.4 | 43,500  | 23.0 | 270.7 | 37,300 |    | 320 |
| 330 |      |       |        |         |      |       |         | 15.9 | 240.7 | 34,300 |    | 330 |

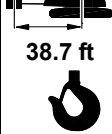
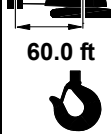
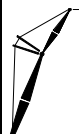
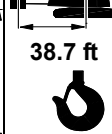
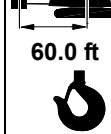
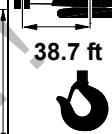
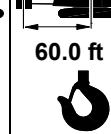
# MLC650 VPC-MAX S-1

ASME B30.5



440,900 lb



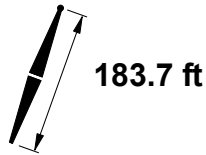
| <div><div>85°</div></div> |                                                                                   |                                                                                   |                                                                                   |                                                                                   | <div><div>83°</div></div> |                                                                                   |                                                                                   |                                                                                   |                                                                                    | <div><div>80°</div></div> |                                                                                     |                                                                                     |                                                                                     |  |  |
|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--|--|
|                            |  |  |  |  |                           |  |  |  |  |                           |  |  |  |  |  |
| ft                                                                                                         | °                                                                                 | ft                                                                                | lb                                                                                | lb                                                                                | °                                                                                                          | ft                                                                                | lb                                                                                | lb                                                                                | °                                                                                  | ft                                                                                                           | lb                                                                                  | lb                                                                                  | ft                                                                                  |  |  |
| 100                                                                                                        | 74.8                                                                              | 455.1                                                                             | 177,000                                                                           | 177,000                                                                           |                                                                                                            |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                                              |                                                                                     |                                                                                     | 100                                                                                 |  |  |
| 105                                                                                                        | 73.7                                                                              | 453.6                                                                             | 176,600                                                                           | 176,600                                                                           |                                                                                                            |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                                              |                                                                                     |                                                                                     | 105                                                                                 |  |  |
| 110                                                                                                        | 72.6                                                                              | 452.0                                                                             | 176,200                                                                           | 176,200                                                                           |                                                                                                            |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                                              |                                                                                     |                                                                                     | 110                                                                                 |  |  |
| 115                                                                                                        | 71.5                                                                              | 450.3                                                                             | 175,600                                                                           | 175,600                                                                           | 72.9                                                                                                       | 451.7                                                                             | 174,300                                                                           | 174,300                                                                           |                                                                                    |                                                                                                              |                                                                                     |                                                                                     | 115                                                                                 |  |  |
| 120                                                                                                        | 70.4                                                                              | 448.5                                                                             | 175,000                                                                           | 175,000                                                                           | 71.8                                                                                                       | 450.0                                                                             | 167,200                                                                           | 174,100                                                                           |                                                                                    |                                                                                                              |                                                                                     |                                                                                     | 120                                                                                 |  |  |
| 125                                                                                                        | 69.2                                                                              | 446.5                                                                             | 167,600                                                                           | 174,300                                                                           | 70.7                                                                                                       | 448.2                                                                             | 157,400                                                                           | 173,900                                                                           |                                                                                    |                                                                                                              |                                                                                     |                                                                                     | 125                                                                                 |  |  |
| 130                                                                                                        | 68.1                                                                              | 444.5                                                                             | 158,200                                                                           | 173,600                                                                           | 69.5                                                                                                       | 446.3                                                                             | 148,400                                                                           | 173,600                                                                           |                                                                                    |                                                                                                              |                                                                                     |                                                                                     | 130                                                                                 |  |  |
| 135                                                                                                        | 66.9                                                                              | 442.3                                                                             | 149,400                                                                           | 172,800                                                                           | 68.4                                                                                                       | 444.3                                                                             | 140,000                                                                           | 173,200                                                                           |                                                                                    |                                                                                                              |                                                                                     |                                                                                     | 135                                                                                 |  |  |
| 140                                                                                                        | 65.8                                                                              | 440.0                                                                             | 141,300                                                                           | 171,900                                                                           | 67.3                                                                                                       | 442.2                                                                             | 132,200                                                                           | 172,800                                                                           | 69.4                                                                               | 444.5                                                                                                        | 118,700                                                                             | 168,500                                                                             | 140                                                                                 |  |  |
| 145                                                                                                        | 64.6                                                                              | 437.6                                                                             | 133,800                                                                           | 171,000                                                                           | 66.1                                                                                                       | 439.9                                                                             | 125,000                                                                           | 172,300                                                                           | 68.3                                                                               | 442.5                                                                                                        | 112,000                                                                             | 168,500                                                                             | 145                                                                                 |  |  |
| 150                                                                                                        | 63.4                                                                              | 435.1                                                                             | 126,800                                                                           | 170,200                                                                           | 64.9                                                                                                       | 437.5                                                                             | 118,300                                                                           | 171,700                                                                           | 67.2                                                                               | 440.4                                                                                                        | 105,800                                                                             | 168,500                                                                             | 150                                                                                 |  |  |
| 155                                                                                                        | 62.2                                                                              | 432.4                                                                             | 120,200                                                                           | 169,200                                                                           | 63.8                                                                                                       | 435.0                                                                             | 112,100                                                                           | 171,100                                                                           | 66.0                                                                               | 438.1                                                                                                        | 99,900                                                                              | 168,500                                                                             | 155                                                                                 |  |  |
| 160                                                                                                        | 61.0                                                                              | 429.6                                                                             | 114,100                                                                           | 168,300                                                                           | 62.6                                                                                                       | 432.4                                                                             | 106,200                                                                           | 170,500                                                                           | 64.8                                                                               | 435.7                                                                                                        | 94,500                                                                              | 168,500                                                                             | 160                                                                                 |  |  |
| 165                                                                                                        | 59.8                                                                              | 426.7                                                                             | 108,300                                                                           | 167,300                                                                           | 61.4                                                                                                       | 429.6                                                                             | 100,700                                                                           | 169,800                                                                           | 63.7                                                                               | 433.2                                                                                                        | 89,300                                                                              | 164,100                                                                             | 165                                                                                 |  |  |
| 170                                                                                                        | 58.6                                                                              | 423.6                                                                             | 102,900                                                                           | 166,300                                                                           | 60.2                                                                                                       | 426.7                                                                             | 95,500                                                                            | 165,700                                                                           | 62.5                                                                               | 430.5                                                                                                        | 84,500                                                                              | 157,400                                                                             | 170                                                                                 |  |  |
| 175                                                                                                        | 57.3                                                                              | 420.3                                                                             | 97,800                                                                            | 164,600                                                                           | 58.9                                                                                                       | 423.7                                                                             | 90,700                                                                            | 159,200                                                                           | 61.3                                                                               | 427.8                                                                                                        | 80,000                                                                              | 151,200                                                                             | 175                                                                                 |  |  |
| 180                                                                                                        | 56.1                                                                              | 416.9                                                                             | 93,000                                                                            | 158,300                                                                           | 57.7                                                                                                       | 420.5                                                                             | 86,100                                                                            | 153,100                                                                           | 60.0                                                                               | 424.8                                                                                                        | 75,700                                                                              | 145,300                                                                             | 180                                                                                 |  |  |
| 185                                                                                                        | 54.8                                                                              | 413.4                                                                             | 88,500                                                                            | 152,400                                                                           | 56.4                                                                                                       | 417.1                                                                             | 81,700                                                                            | 147,300                                                                           | 58.8                                                                               | 421.8                                                                                                        | 71,600                                                                              | 139,700                                                                             | 185                                                                                 |  |  |
| 190                                                                                                        | 53.4                                                                              | 409.6                                                                             | 84,200                                                                            | 146,700                                                                           | 55.1                                                                                                       | 413.6                                                                             | 77,600                                                                            | 141,800                                                                           | 57.6                                                                               | 418.6                                                                                                        | 67,800                                                                              | 134,500                                                                             | 190                                                                                 |  |  |
| 195                                                                                                        | 52.1                                                                              | 405.7                                                                             | 80,100                                                                            | 141,400                                                                           | 53.8                                                                                                       | 409.9                                                                             | 73,700                                                                            | 136,600                                                                           | 56.3                                                                               | 415.2                                                                                                        | 64,200                                                                              | 129,500                                                                             | 195                                                                                 |  |  |
| 200                                                                                                        | 50.7                                                                              | 401.6                                                                             | 76,200                                                                            | 136,400                                                                           | 52.5                                                                                                       | 406.0                                                                             | 70,000                                                                            | 131,700                                                                           | 55.0                                                                               | 411.7                                                                                                        | 60,700                                                                              | 124,800                                                                             | 200                                                                                 |  |  |
| 205                                                                                                        | 49.4                                                                              | 397.2                                                                             | 72,500                                                                            | 131,600                                                                           | 51.1                                                                                                       | 402.0                                                                             | 66,500                                                                            | 127,100                                                                           | 53.7                                                                               | 407.9                                                                                                        | 57,400                                                                              | 120,300                                                                             | 205                                                                                 |  |  |
| 210                                                                                                        | 47.9                                                                              | 392.7                                                                             | 69,000                                                                            | 127,100                                                                           | 49.7                                                                                                       | 397.7                                                                             | 63,100                                                                            | 122,600                                                                           | 52.4                                                                               | 404.0                                                                                                        | 54,300                                                                              | 116,000                                                                             | 210                                                                                 |  |  |
| 215                                                                                                        | 46.5                                                                              | 387.9                                                                             | 65,700                                                                            | 122,700                                                                           | 48.3                                                                                                       | 393.2                                                                             | 59,900                                                                            | 118,400                                                                           | 51.0                                                                               | 400.0                                                                                                        | 51,300                                                                              | 112,000                                                                             | 215                                                                                 |  |  |
| 220                                                                                                        | 45.0                                                                              | 382.9                                                                             | 62,400                                                                            | 118,600                                                                           | 46.9                                                                                                       | 388.5                                                                             | 56,800                                                                            | 114,400                                                                           | 49.6                                                                               | 395.7                                                                                                        | 48,400                                                                              | 108,100                                                                             | 220                                                                                 |  |  |
| 225                                                                                                        | 43.5                                                                              | 377.6                                                                             | 59,400                                                                            | 114,600                                                                           | 45.4                                                                                                       | 383.5                                                                             | 53,900                                                                            | 110,500                                                                           | 48.2                                                                               | 391.2                                                                                                        | 45,700                                                                              | 104,400                                                                             | 225                                                                                 |  |  |
| 230                                                                                                        | 41.9                                                                              | 372.0                                                                             | 56,400                                                                            | 110,900                                                                           | 43.9                                                                                                       | 378.3                                                                             | 51,100                                                                            | 106,800                                                                           | 46.7                                                                               | 386.4                                                                                                        | 43,100                                                                              | 100,800                                                                             | 230                                                                                 |  |  |
| 240                                                                                                        | 38.5                                                                              | 359.7                                                                             | 50,900                                                                            | 103,800                                                                           | 40.7                                                                                                       | 366.9                                                                             | 45,800                                                                            | 99,900                                                                            | 43.7                                                                               | 376.2                                                                                                        | 38,200                                                                              | 94,200                                                                              | 240                                                                                 |  |  |
| 250                                                                                                        | 35.0                                                                              | 345.9                                                                             | 45,800                                                                            | 97,300                                                                            | 37.3                                                                                                       | 354.1                                                                             | 40,900                                                                            | 93,600                                                                            | 40.5                                                                               | 364.7                                                                                                        | 33,600                                                                              | 88,100                                                                              | 250                                                                                 |  |  |
| 260                                                                                                        | 31.0                                                                              | 329.9                                                                             | 41,100                                                                            | 91,200                                                                            | 33.6                                                                                                       | 339.6                                                                             | 36,400                                                                            | 87,700                                                                            | 37.1                                                                               | 351.9                                                                                                        | 29,400                                                                              | 82,500                                                                              | 260                                                                                 |  |  |
| 270                                                                                                        | 26.5                                                                              | 310.9                                                                             | 36,600                                                                            | 85,700                                                                            | 29.4                                                                                                       | 322.7                                                                             | 32,100                                                                            | 82,300                                                                            | 33.4                                                                               | 337.2                                                                                                        | 25,500                                                                              | 77,200                                                                              | 270                                                                                 |  |  |
| 280                                                                                                        | 21.0                                                                              | 287.1                                                                             | 32,400                                                                            | 80,400                                                                            | 24.6                                                                                                       | 302.2                                                                             | 28,200                                                                            | 77,200                                                                            | 29.2                                                                               | 320.2                                                                                                        | 21,800                                                                              | 72,400                                                                              | 280                                                                                 |  |  |
| 290                                                                                                        | 13.6                                                                              | 253.1                                                                             | 28,300                                                                            | 75,500                                                                            | 18.7                                                                                                       | 275.8                                                                             | 24,300                                                                            | 72,400                                                                            | 24.4                                                                               | 299.5                                                                                                        |                                                                                     | 67,800                                                                              | 290                                                                                 |  |  |
| 300                                                                                                        |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 9.4                                                                                                        | 232.9                                                                             | 20,500                                                                            | 67,800                                                                            | 18.4                                                                               | 272.7                                                                                                        |                                                                                     | 63,500                                                                              | 300                                                                                 |  |  |
| 310                                                                                                        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                                            |                                                                                   |                                                                                   |                                                                                   | 8.7                                                                                | 228.0                                                                                                        |                                                                                     | 59,300                                                                              | 310                                                                                 |  |  |
| 320                                                                                                        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                                            |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                                              |                                                                                     |                                                                                     | 320                                                                                 |  |  |
| 330                                                                                                        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                                            |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                                              |                                                                                     |                                                                                     | 330                                                                                 |  |  |
| 340                                                                                                        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                                            |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                                              |                                                                                     |                                                                                     | 340                                                                                 |  |  |
| 350                                                                                                        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                                            |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                                              |                                                                                     |                                                                                     | 350                                                                                 |  |  |

# MLC650 VPC-MAX S-1

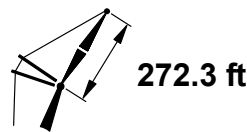
ASME B30.5



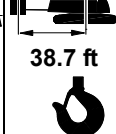
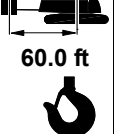
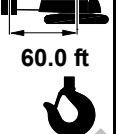
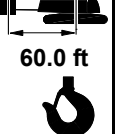
440,900 lb



183.7 ft

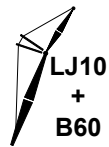


272.3 ft

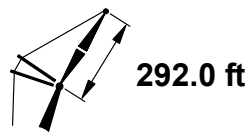
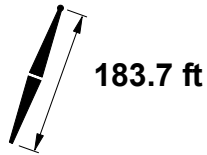
|                                                                                         | <br>75° |                                                                                         |                                                                                         |                                                                                         | <br>70° |                                                                                         |                                                                                          |                                                                                          | <br>65° |                                                                                           |                                                                                           |  |  |
|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--|--|
| <br>ft | <br>°   | <br>ft | <br>lb | <br>lb | <br>°   | <br>ft | <br>lb | <br>° | <br>ft  | <br>lb | <br>ft |  |  |
| 100                                                                                     |                                                                                          |                                                                                         |                                                                                         |                                                                                         |                                                                                          |                                                                                         |                                                                                          |                                                                                          |                                                                                            |                                                                                           | 100                                                                                       |  |  |
| 105                                                                                     |                                                                                          |                                                                                         |                                                                                         |                                                                                         |                                                                                          |                                                                                         |                                                                                          |                                                                                          |                                                                                            |                                                                                           | 105                                                                                       |  |  |
| 110                                                                                     |                                                                                          |                                                                                         |                                                                                         |                                                                                         |                                                                                          |                                                                                         |                                                                                          |                                                                                          |                                                                                            |                                                                                           | 110                                                                                       |  |  |
| 115                                                                                     |                                                                                          |                                                                                         |                                                                                         |                                                                                         |                                                                                          |                                                                                         |                                                                                          |                                                                                          |                                                                                            |                                                                                           | 115                                                                                       |  |  |
| 120                                                                                     |                                                                                          |                                                                                         |                                                                                         |                                                                                         |                                                                                          |                                                                                         |                                                                                          |                                                                                          |                                                                                            |                                                                                           | 120                                                                                       |  |  |
| 125                                                                                     |                                                                                          |                                                                                         |                                                                                         |                                                                                         |                                                                                          |                                                                                         |                                                                                          |                                                                                          |                                                                                            |                                                                                           | 125                                                                                       |  |  |
| 130                                                                                     |                                                                                          |                                                                                         |                                                                                         |                                                                                         |                                                                                          |                                                                                         |                                                                                          |                                                                                          |                                                                                            |                                                                                           | 130                                                                                       |  |  |
| 135                                                                                     |                                                                                          |                                                                                         |                                                                                         |                                                                                         |                                                                                          |                                                                                         |                                                                                          |                                                                                          |                                                                                            |                                                                                           | 135                                                                                       |  |  |
| 140                                                                                     |                                                                                          |                                                                                         |                                                                                         |                                                                                         |                                                                                          |                                                                                         |                                                                                          |                                                                                          |                                                                                            |                                                                                           | 140                                                                                       |  |  |
| 145                                                                                     |                                                                                          |                                                                                         |                                                                                         |                                                                                         |                                                                                          |                                                                                         |                                                                                          |                                                                                          |                                                                                            |                                                                                           | 145                                                                                       |  |  |
| 150                                                                                     |                                                                                          |                                                                                         |                                                                                         |                                                                                         |                                                                                          |                                                                                         |                                                                                          |                                                                                          |                                                                                            |                                                                                           | 150                                                                                       |  |  |
| 155                                                                                     |                                                                                          |                                                                                         |                                                                                         |                                                                                         |                                                                                          |                                                                                         |                                                                                          |                                                                                          |                                                                                            |                                                                                           | 155                                                                                       |  |  |
| 160                                                                                     |                                                                                          |                                                                                         |                                                                                         |                                                                                         |                                                                                          |                                                                                         |                                                                                          |                                                                                          |                                                                                            |                                                                                           | 160                                                                                       |  |  |
| 165                                                                                     |                                                                                          |                                                                                         |                                                                                         |                                                                                         |                                                                                          |                                                                                         |                                                                                          |                                                                                          |                                                                                            |                                                                                           | 165                                                                                       |  |  |
| 170                                                                                     |                                                                                          |                                                                                         |                                                                                         |                                                                                         |                                                                                          |                                                                                         |                                                                                          |                                                                                          |                                                                                            |                                                                                           | 170                                                                                       |  |  |
| 175                                                                                     | 65.0                                                                                     | 432.3                                                                                   | 62,400                                                                                  | 138,000                                                                                 |                                                                                          |                                                                                         |                                                                                          |                                                                                          |                                                                                            |                                                                                           | 175                                                                                       |  |  |
| 180                                                                                     | 63.8                                                                                     | 429.8                                                                                   | 58,600                                                                                  | 132,500                                                                                 |                                                                                          |                                                                                         |                                                                                          |                                                                                          |                                                                                            |                                                                                           | 180                                                                                       |  |  |
| 185                                                                                     | 62.6                                                                                     | 427.1                                                                                   | 55,000                                                                                  | 127,300                                                                                 |                                                                                          |                                                                                         |                                                                                          |                                                                                          |                                                                                            |                                                                                           | 185                                                                                       |  |  |
| 190                                                                                     | 61.4                                                                                     | 424.4                                                                                   | 51,700                                                                                  | 122,400                                                                                 |                                                                                          |                                                                                         |                                                                                          |                                                                                          |                                                                                            |                                                                                           | 190                                                                                       |  |  |
| 195                                                                                     | 60.2                                                                                     | 421.5                                                                                   | 48,500                                                                                  | 117,700                                                                                 |                                                                                          |                                                                                         |                                                                                          |                                                                                          |                                                                                            |                                                                                           | 195                                                                                       |  |  |
| 200                                                                                     | 59.0                                                                                     | 418.4                                                                                   | 45,400                                                                                  | 113,300                                                                                 |                                                                                          |                                                                                         |                                                                                          |                                                                                          |                                                                                            |                                                                                           | 200                                                                                       |  |  |
| 205                                                                                     | 57.7                                                                                     | 415.2                                                                                   | 42,500                                                                                  | 109,100                                                                                 |                                                                                          |                                                                                         |                                                                                          |                                                                                          |                                                                                            |                                                                                           | 205                                                                                       |  |  |
| 210                                                                                     | 56.4                                                                                     | 411.9                                                                                   | 39,700                                                                                  | 105,100                                                                                 |                                                                                          |                                                                                         |                                                                                          |                                                                                          |                                                                                            |                                                                                           | 210                                                                                       |  |  |
| 215                                                                                     | 55.2                                                                                     | 408.4                                                                                   | 37,100                                                                                  | 101,300                                                                                 | 59.0                                                                                     | 413.5                                                                                   | 91,000                                                                                   |                                                                                          |                                                                                            |                                                                                           | 215                                                                                       |  |  |
| 220                                                                                     | 53.9                                                                                     | 404.7                                                                                   | 34,600                                                                                  | 97,700                                                                                  | 57.8                                                                                     | 410.3                                                                                   | 87,600                                                                                   |                                                                                          |                                                                                            |                                                                                           | 220                                                                                       |  |  |
| 225                                                                                     | 52.5                                                                                     | 400.8                                                                                   | 32,200                                                                                  | 94,300                                                                                  | 56.5                                                                                     | 406.9                                                                                   | 84,400                                                                                   |                                                                                          |                                                                                            |                                                                                           | 225                                                                                       |  |  |
| 230                                                                                     | 51.2                                                                                     | 396.7                                                                                   | 29,900                                                                                  | 90,900                                                                                  | 55.2                                                                                     | 403.4                                                                                   | 81,300                                                                                   |                                                                                          |                                                                                            |                                                                                           | 230                                                                                       |  |  |
| 240                                                                                     | 48.4                                                                                     | 388.0                                                                                   | 25,600                                                                                  | 84,800                                                                                  | 52.6                                                                                     | 395.9                                                                                   | 75,500                                                                                   |                                                                                          |                                                                                            |                                                                                           | 240                                                                                       |  |  |
| 250                                                                                     | 45.4                                                                                     | 378.3                                                                                   | 21,600                                                                                  | 79,100                                                                                  | 49.9                                                                                     | 387.6                                                                                   | 70,200                                                                                   | 53.9                                                                                     | 393.2                                                                                      | 61,600                                                                                    | 250                                                                                       |  |  |
| 260                                                                                     | 42.4                                                                                     | 367.6                                                                                   |                                                                                         | 73,800                                                                                  | 47.0                                                                                     | 378.4                                                                                   | 65,300                                                                                   | 51.2                                                                                     | 385.2                                                                                      | 57,100                                                                                    | 260                                                                                       |  |  |
| 270                                                                                     | 39.1                                                                                     | 355.6                                                                                   |                                                                                         | 68,900                                                                                  | 44.0                                                                                     | 368.3                                                                                   | 60,800                                                                                   | 48.4                                                                                     | 376.5                                                                                      | 52,900                                                                                    | 270                                                                                       |  |  |
| 280                                                                                     | 35.5                                                                                     | 342.0                                                                                   |                                                                                         | 64,400                                                                                  | 40.8                                                                                     | 357.0                                                                                   | 56,600                                                                                   | 45.4                                                                                     | 366.8                                                                                      | 49,000                                                                                    | 280                                                                                       |  |  |
| 290                                                                                     | 31.6                                                                                     | 326.4                                                                                   |                                                                                         | 60,100                                                                                  | 37.4                                                                                     | 344.2                                                                                   | 52,600                                                                                   | 42.4                                                                                     | 356.1                                                                                      | 45,300                                                                                    | 290                                                                                       |  |  |
| 300                                                                                     | 27.2                                                                                     | 308.0                                                                                   |                                                                                         | 56,200                                                                                  | 33.7                                                                                     | 329.8                                                                                   | 48,900                                                                                   | 39.1                                                                                     | 344.1                                                                                      | 41,900                                                                                    | 300                                                                                       |  |  |
| 310                                                                                     | 22.0                                                                                     | 285.1                                                                                   |                                                                                         | 52,400                                                                                  | 29.6                                                                                     | 312.9                                                                                   | 45,500                                                                                   | 35.5                                                                                     | 330.5                                                                                      | 38,700                                                                                    | 310                                                                                       |  |  |
| 320                                                                                     | 15.0                                                                                     | 253.5                                                                                   |                                                                                         | 48,800                                                                                  | 24.9                                                                                     | 292.7                                                                                   | 42,200                                                                                   | 31.6                                                                                     | 314.9                                                                                      | 35,600                                                                                    | 320                                                                                       |  |  |
| 330                                                                                     |                                                                                          |                                                                                         |                                                                                         |                                                                                         | 19.0                                                                                     | 266.6                                                                                   | 39,000                                                                                   | 27.2                                                                                     | 296.4                                                                                      | 32,800                                                                                    | 330                                                                                       |  |  |
| 340                                                                                     |                                                                                          |                                                                                         |                                                                                         |                                                                                         | 10.0                                                                                     | 225.1                                                                                   | 35,900                                                                                   | 22.0                                                                                     | 273.6                                                                                      | 30,000                                                                                    | 340                                                                                       |  |  |
| 350                                                                                     |                                                                                          |                                                                                         |                                                                                         |                                                                                         |                                                                                          |                                                                                         |                                                                                          | 15.0                                                                                     | 241.9                                                                                      | 27,400                                                                                    | 350                                                                                       |  |  |

# MLC650 VPC-MAX S-1

ASME B30.5



440,900 lb



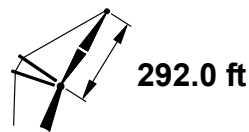
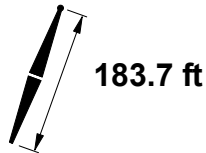
|     | 85°  |       |         |         | 83°  |       |         |         | 80°  |       |         |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|---------|---------|-----|
|     |      |       |         |         |      |       |         |         |      |       |         |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | ft  |
| 105 | 74.8 | 474.2 | 151,200 | 151,200 |      |       |         |         |      |       |         |         | 105 |
| 110 | 73.8 | 472.7 | 150,700 | 150,700 |      |       |         |         |      |       |         |         | 110 |
| 115 | 72.8 | 471.1 | 150,200 | 150,200 |      |       |         |         |      |       |         |         | 115 |
| 120 | 71.7 | 469.4 | 149,600 | 149,600 |      |       |         |         |      |       |         |         | 120 |
| 125 | 70.7 | 467.6 | 148,900 | 148,900 | 72.0 | 469.1 | 148,100 | 148,100 |      |       |         |         | 125 |
| 130 | 69.6 | 465.7 | 148,200 | 148,200 | 71.0 | 467.3 | 144,500 | 147,800 |      |       |         |         | 130 |
| 135 | 68.6 | 463.7 | 145,700 | 147,400 | 69.9 | 465.5 | 136,100 | 147,300 |      |       |         |         | 135 |
| 140 | 67.5 | 461.6 | 137,600 | 146,600 | 68.9 | 463.5 | 128,400 | 146,800 |      |       |         |         | 140 |
| 145 | 66.5 | 459.4 | 130,100 | 145,800 | 67.8 | 461.4 | 121,200 | 146,300 | 69.8 | 463.7 | 107,900 | 142,700 | 145 |
| 150 | 65.4 | 457.1 | 123,100 | 145,000 | 66.7 | 459.3 | 114,500 | 145,700 | 68.8 | 461.7 | 101,700 | 142,600 | 150 |
| 155 | 64.3 | 454.6 | 116,600 | 144,100 | 65.7 | 457.0 | 108,300 | 145,100 | 67.7 | 459.6 | 95,900  | 142,500 | 155 |
| 160 | 63.2 | 452.1 | 110,500 | 143,200 | 64.6 | 454.6 | 102,400 | 144,500 | 66.6 | 457.5 | 90,500  | 142,400 | 160 |
| 165 | 62.1 | 449.4 | 104,700 | 142,300 | 63.5 | 452.0 | 96,900  | 143,800 | 65.6 | 455.1 | 85,400  | 142,100 | 165 |
| 170 | 60.9 | 446.6 | 99,300  | 141,400 | 62.4 | 449.4 | 91,800  | 143,100 | 64.5 | 452.7 | 80,500  | 141,900 | 170 |
| 175 | 59.8 | 443.6 | 94,200  | 140,500 | 61.2 | 446.6 | 86,900  | 142,400 | 63.4 | 450.2 | 76,000  | 141,600 | 175 |
| 180 | 58.6 | 440.6 | 89,400  | 139,600 | 60.1 | 443.7 | 82,300  | 141,700 | 62.3 | 447.5 | 71,800  | 141,200 | 180 |
| 185 | 57.5 | 437.3 | 84,900  | 138,600 | 59.0 | 440.6 | 78,000  | 141,000 | 61.1 | 444.7 | 67,700  | 136,600 | 185 |
| 190 | 56.3 | 434.0 | 80,600  | 137,700 | 57.8 | 437.5 | 73,900  | 138,800 | 60.0 | 441.8 | 63,900  | 131,300 | 190 |
| 195 | 55.1 | 430.4 | 76,500  | 136,700 | 56.6 | 434.1 | 70,000  | 133,700 | 58.9 | 438.7 | 60,300  | 126,400 | 195 |
| 200 | 53.9 | 426.7 | 72,700  | 133,200 | 55.4 | 430.6 | 66,300  | 128,800 | 57.7 | 435.5 | 56,800  | 121,700 | 200 |
| 205 | 52.6 | 422.9 | 69,000  | 128,700 | 54.2 | 427.0 | 62,800  | 124,100 | 56.5 | 432.2 | 53,600  | 117,200 | 205 |
| 210 | 51.4 | 418.9 | 65,500  | 124,200 | 53.0 | 423.2 | 59,400  | 119,700 | 55.3 | 428.7 | 50,400  | 113,000 | 210 |
| 215 | 50.1 | 414.6 | 62,100  | 119,900 | 51.7 | 419.2 | 56,200  | 115,500 | 54.1 | 425.0 | 47,500  | 108,900 | 215 |
| 220 | 48.8 | 410.2 | 58,900  | 115,800 | 50.4 | 415.1 | 53,200  | 111,500 | 52.9 | 421.2 | 44,600  | 105,100 | 220 |
| 225 | 47.4 | 405.6 | 55,900  | 111,800 | 49.1 | 410.7 | 50,300  | 107,600 | 51.6 | 417.2 | 41,900  | 101,400 | 225 |
| 230 | 46.1 | 400.8 | 53,000  | 108,100 | 47.8 | 406.1 | 47,500  | 104,000 | 50.3 | 413.0 | 39,300  | 97,900  | 230 |
| 240 | 43.2 | 390.3 | 47,500  | 101,000 | 45.1 | 396.3 | 42,300  | 97,100  | 47.7 | 404.1 | 34,400  | 91,300  | 240 |
| 250 | 40.2 | 378.8 | 42,400  | 94,600  | 42.2 | 385.5 | 37,400  | 90,800  | 44.9 | 394.2 | 29,900  | 85,200  | 250 |
| 260 | 37.0 | 365.9 | 37,700  | 88,600  | 39.1 | 373.5 | 32,900  | 85,000  | 42.0 | 383.4 | 25,800  | 79,600  | 260 |
| 270 | 33.6 | 351.3 | 33,400  | 83,000  | 35.8 | 360.0 | 28,800  | 79,600  | 39.0 | 371.3 | 21,900  | 74,400  | 270 |
| 280 | 29.7 | 334.5 | 29,300  | 77,900  | 32.2 | 344.7 | 24,900  | 74,600  | 35.7 | 357.7 |         | 69,600  | 280 |
| 290 | 25.4 | 314.6 | 25,400  | 73,100  | 28.2 | 326.9 | 21,200  | 69,900  | 32.1 | 342.3 |         | 65,100  | 290 |
| 300 | 20.1 | 289.7 | 21,700  | 68,500  | 23.6 | 305.5 |         | 65,500  | 28.0 | 324.4 |         | 60,900  | 300 |
| 310 | 12.8 | 253.8 |         | 64,200  | 17.8 | 277.8 |         | 61,300  | 23.4 | 302.8 |         | 56,900  | 310 |
| 320 |      |       |         |         | 8.6  | 232.1 |         | 57,200  | 17.5 | 274.6 |         | 53,100  | 320 |
| 330 |      |       |         |         |      |       |         |         | 7.9  | 226.8 |         | 49,400  | 330 |
| 340 |      |       |         |         |      |       |         |         |      |       |         |         | 340 |
| 350 |      |       |         |         |      |       |         |         |      |       |         |         | 350 |
| 360 |      |       |         |         |      |       |         |         |      |       |         |         | 360 |

# MLC650 VPC-MAX S-1

ASME B30.5



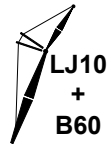
440,900 lb



|     | 75°  |       |        |         | 70°  |       |        |      | 65°   |        |    |     |
|-----|------|-------|--------|---------|------|-------|--------|------|-------|--------|----|-----|
|     |      |       |        |         |      |       |        |      |       |        |    |     |
| ft  | °    | ft    | lb     | lb      | °    | ft    | lb     | °    | ft    | lb     | ft |     |
| 105 |      |       |        |         |      |       |        |      |       |        |    | 105 |
| 110 |      |       |        |         |      |       |        |      |       |        |    | 110 |
| 115 |      |       |        |         |      |       |        |      |       |        |    | 115 |
| 120 |      |       |        |         |      |       |        |      |       |        |    | 120 |
| 125 |      |       |        |         |      |       |        |      |       |        |    | 125 |
| 130 |      |       |        |         |      |       |        |      |       |        |    | 130 |
| 135 |      |       |        |         |      |       |        |      |       |        |    | 135 |
| 140 |      |       |        |         |      |       |        |      |       |        |    | 140 |
| 145 |      |       |        |         |      |       |        |      |       |        |    | 145 |
| 150 |      |       |        |         |      |       |        |      |       |        |    | 150 |
| 155 |      |       |        |         |      |       |        |      |       |        |    | 155 |
| 160 |      |       |        |         |      |       |        |      |       |        |    | 160 |
| 165 |      |       |        |         |      |       |        |      |       |        |    | 165 |
| 170 |      |       |        |         |      |       |        |      |       |        |    | 170 |
| 175 |      |       |        |         |      |       |        |      |       |        |    | 175 |
| 180 |      |       |        |         |      |       |        |      |       |        |    | 180 |
| 185 | 64.6 | 449.3 | 50,800 | 124,000 |      |       |        |      |       |        |    | 185 |
| 190 | 63.5 | 446.8 | 47,500 | 119,100 |      |       |        |      |       |        |    | 190 |
| 195 | 62.4 | 444.1 | 44,300 | 114,400 |      |       |        |      |       |        |    | 195 |
| 200 | 61.3 | 441.3 | 41,300 | 110,000 |      |       |        |      |       |        |    | 200 |
| 205 | 60.1 | 438.4 | 38,400 | 105,900 |      |       |        |      |       |        |    | 205 |
| 210 | 59.0 | 435.4 | 35,600 | 101,900 |      |       |        |      |       |        |    | 210 |
| 215 | 57.8 | 432.2 | 33,000 | 98,100  |      |       |        |      |       |        |    | 215 |
| 220 | 56.7 | 428.9 | 30,500 | 94,500  |      |       |        |      |       |        |    | 220 |
| 225 | 55.5 | 425.4 | 28,200 | 91,100  | 59.1 | 430.4 | 81,000 |      |       |        |    | 225 |
| 230 | 54.3 | 421.8 | 25,900 | 87,800  | 57.9 | 427.3 | 78,000 |      |       |        |    | 230 |
| 240 | 51.8 | 414.0 | 21,600 | 81,700  | 55.5 | 420.5 | 72,300 |      |       |        |    | 240 |
| 250 | 49.2 | 405.5 |        | 76,000  | 53.1 | 413.1 | 67,000 |      |       |        |    | 250 |
| 260 | 46.5 | 396.2 |        | 70,800  | 50.6 | 404.9 | 62,100 | 54.2 | 410.3 | 53,800 |    | 260 |
| 270 | 43.7 | 385.9 |        | 65,900  | 47.9 | 396.1 | 57,600 | 51.8 | 402.5 | 49,600 |    | 270 |
| 280 | 40.7 | 374.5 |        | 61,400  | 45.2 | 386.3 | 53,500 | 49.2 | 394.0 | 45,700 |    | 280 |
| 290 | 37.6 | 361.8 |        | 57,300  | 42.3 | 375.5 | 49,600 | 46.5 | 384.6 | 42,100 |    | 290 |
| 300 | 34.1 | 347.5 |        | 53,300  | 39.2 | 363.6 | 45,900 | 43.7 | 374.4 | 38,700 |    | 300 |
| 310 | 30.4 | 331.1 |        | 49,600  | 36.0 | 350.2 | 42,500 | 40.7 | 363.0 | 35,600 |    | 310 |
| 320 | 26.1 | 311.8 |        | 46,200  | 32.4 | 334.9 | 39,300 | 37.5 | 350.3 | 32,600 |    | 320 |
| 330 | 21.0 | 287.8 |        | 42,900  | 28.4 | 317.3 | 36,200 | 34.1 | 336.0 | 29,800 |    | 330 |
| 340 | 14.2 | 254.5 |        | 39,700  | 23.8 | 296.1 | 33,300 | 30.4 | 319.6 | 27,100 |    | 340 |
| 350 |      |       |        |         | 18.1 | 268.7 | 30,600 | 26.1 | 300.3 | 24,500 |    | 350 |
| 360 |      |       |        |         | 9.2  | 224.5 | 27,800 | 21.0 | 276.3 | 21,600 |    | 360 |

# MLC650 VPC-MAX S-1

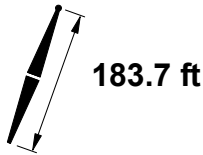
ASME B30.5



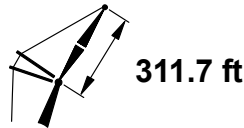
440,900 lb



360°



183.7 ft



311.7 ft

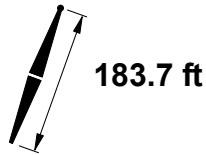
|     | 85°  |       |         |         | 83°  |       |         |         | 80°  |       |        |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|--------|---------|-----|
|     |      |       |         |         |      |       |         |         |      |       |        |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb     | lb      | ft  |
| 110 | 74.9 | 493.2 | 130,200 | 130,200 |      |       |         |         |      |       |        |         | 110 |
| 115 | 73.9 | 491.7 | 129,700 | 129,700 |      |       |         |         |      |       |        |         | 115 |
| 120 | 72.9 | 490.2 | 129,200 | 129,200 |      |       |         |         |      |       |        |         | 120 |
| 125 | 72.0 | 488.5 | 128,600 | 128,600 |      |       |         |         |      |       |        |         | 125 |
| 130 | 71.0 | 486.7 | 127,900 | 127,900 | 72.2 | 488.2 | 127,300 | 127,300 |      |       |        |         | 130 |
| 135 | 70.0 | 484.9 | 127,200 | 127,200 | 71.3 | 486.5 | 126,900 | 126,900 |      |       |        |         | 135 |
| 140 | 69.0 | 482.9 | 126,500 | 126,500 | 70.3 | 484.6 | 126,100 | 126,400 |      |       |        |         | 140 |
| 145 | 68.0 | 480.9 | 125,800 | 125,800 | 69.3 | 482.7 | 119,000 | 125,900 |      |       |        |         | 145 |
| 150 | 67.0 | 478.7 | 121,100 | 125,000 | 68.3 | 480.7 | 112,300 | 125,400 |      |       |        |         | 150 |
| 155 | 66.0 | 476.5 | 114,500 | 124,300 | 67.3 | 478.6 | 106,100 | 124,800 | 69.2 | 480.9 | 93,500 | 122,100 | 155 |
| 160 | 65.0 | 474.1 | 108,400 | 123,500 | 66.3 | 476.3 | 100,200 | 124,200 | 68.2 | 478.9 | 88,100 | 121,900 | 160 |
| 165 | 64.0 | 471.6 | 102,700 | 122,700 | 65.3 | 474.0 | 94,800  | 123,600 | 67.2 | 476.8 | 83,000 | 121,700 | 165 |
| 170 | 62.9 | 469.1 | 97,300  | 121,900 | 64.3 | 471.6 | 89,600  | 123,000 | 66.2 | 474.5 | 78,200 | 121,400 | 170 |
| 175 | 61.9 | 466.4 | 92,200  | 121,000 | 63.2 | 469.0 | 84,800  | 122,300 | 65.2 | 472.2 | 73,700 | 121,100 | 175 |
| 180 | 60.8 | 463.5 | 87,400  | 120,200 | 62.2 | 466.3 | 80,200  | 121,700 | 64.2 | 469.7 | 69,400 | 120,800 | 180 |
| 185 | 59.8 | 460.6 | 82,900  | 119,400 | 61.1 | 463.5 | 75,900  | 121,000 | 63.1 | 467.2 | 65,400 | 120,400 | 185 |
| 190 | 58.7 | 457.5 | 78,600  | 118,600 | 60.1 | 460.6 | 71,800  | 120,300 | 62.1 | 464.5 | 61,600 | 120,000 | 190 |
| 195 | 57.6 | 454.3 | 74,600  | 117,800 | 59.0 | 457.6 | 67,900  | 119,600 | 61.0 | 461.7 | 58,000 | 119,600 | 195 |
| 200 | 56.5 | 451.0 | 70,700  | 117,000 | 57.9 | 454.4 | 64,200  | 119,000 | 60.0 | 458.8 | 54,600 | 119,200 | 200 |
| 205 | 55.4 | 447.5 | 67,000  | 116,100 | 56.8 | 451.1 | 60,700  | 118,300 | 58.9 | 455.7 | 51,300 | 115,400 | 205 |
| 210 | 54.2 | 443.8 | 63,600  | 115,300 | 55.7 | 447.7 | 57,400  | 117,600 | 57.8 | 452.5 | 48,200 | 111,100 | 210 |
| 215 | 53.1 | 440.1 | 60,200  | 114,200 | 54.6 | 444.1 | 54,200  | 113,800 | 56.7 | 449.2 | 45,300 | 107,100 | 215 |
| 220 | 51.9 | 436.1 | 57,100  | 111,400 | 53.4 | 440.3 | 51,200  | 109,800 | 55.6 | 445.7 | 42,500 | 103,300 | 220 |
| 225 | 50.7 | 432.0 | 54,000  | 108,500 | 52.2 | 436.4 | 48,300  | 106,000 | 54.4 | 442.1 | 39,800 | 99,600  | 225 |
| 230 | 49.5 | 427.7 | 51,100  | 105,800 | 51.1 | 432.4 | 45,500  | 102,300 | 53.3 | 438.4 | 37,200 | 96,100  | 230 |
| 240 | 47.0 | 418.5 | 45,700  | 99,500  | 48.6 | 423.7 | 40,300  | 95,500  | 50.9 | 430.4 | 32,300 | 89,500  | 240 |
| 250 | 44.4 | 408.5 | 40,600  | 93,000  | 46.1 | 414.2 | 35,500  | 89,200  | 48.5 | 421.6 | 27,900 | 83,500  | 250 |
| 260 | 41.7 | 397.5 | 36,000  | 87,100  | 43.4 | 403.8 | 31,100  | 83,400  | 46.0 | 412.1 | 23,700 | 78,000  | 260 |
| 270 | 38.8 | 385.3 | 31,700  | 81,600  | 40.7 | 392.4 | 26,900  | 78,100  | 43.3 | 401.7 |        | 72,800  | 270 |
| 280 | 35.7 | 371.7 | 27,600  | 76,500  | 37.7 | 379.8 | 23,100  | 73,100  | 40.5 | 390.2 |        | 68,000  | 280 |
| 290 | 32.3 | 356.4 | 23,800  | 71,700  | 34.5 | 365.6 |         | 68,400  | 37.5 | 377.5 |        | 63,600  | 290 |
| 300 | 28.6 | 338.9 | 20,300  | 67,200  | 31.0 | 349.6 |         | 64,100  | 34.3 | 363.3 |        | 59,400  | 300 |
| 310 | 24.4 | 318.1 |         | 63,000  | 27.2 | 331.0 |         | 60,000  | 30.9 | 347.2 |        | 55,500  | 310 |
| 320 | 19.2 | 292.0 |         | 59,100  | 22.6 | 308.6 |         | 56,200  | 27.0 | 328.4 |        | 51,800  | 320 |
| 330 | 12.0 | 254.2 |         | 55,200  | 17.0 | 279.6 |         | 52,500  | 22.4 | 305.8 |        | 48,300  | 330 |
| 340 |      |       |         |         | 7.9  | 230.9 |         | 48,900  | 16.7 | 276.3 |        | 45,000  | 340 |
| 350 |      |       |         |         |      |       |         |         | 7.1  | 225.2 |        | 41,700  | 350 |
| 360 |      |       |         |         |      |       |         |         |      |       |        |         | 360 |
| 370 |      |       |         |         |      |       |         |         |      |       |        |         | 370 |
| 380 |      |       |         |         |      |       |         |         |      |       |        |         | 380 |

# MLC650 VPC-MAX S-1

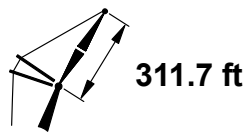
ASME B30.5



440,900 lb



183.7 ft

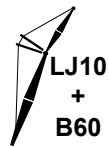


311.7 ft

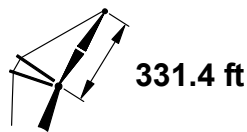
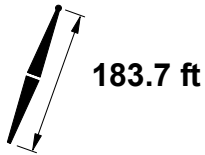
|     | 75°  |       |        |         | 70°  |       |        |      | 65°   |        |    |     |
|-----|------|-------|--------|---------|------|-------|--------|------|-------|--------|----|-----|
|     |      |       |        |         |      |       |        |      |       |        |    |     |
|     | ft   | °     | ft     | lb      | lb   | °     | ft     | lb   | °     | ft     | lb | ft  |
| 110 |      |       |        |         |      |       |        |      |       |        |    | 110 |
| 115 |      |       |        |         |      |       |        |      |       |        |    | 115 |
| 120 |      |       |        |         |      |       |        |      |       |        |    | 120 |
| 125 |      |       |        |         |      |       |        |      |       |        |    | 125 |
| 130 |      |       |        |         |      |       |        |      |       |        |    | 130 |
| 135 |      |       |        |         |      |       |        |      |       |        |    | 135 |
| 140 |      |       |        |         |      |       |        |      |       |        |    | 140 |
| 145 |      |       |        |         |      |       |        |      |       |        |    | 145 |
| 150 |      |       |        |         |      |       |        |      |       |        |    | 150 |
| 155 |      |       |        |         |      |       |        |      |       |        |    | 155 |
| 160 |      |       |        |         |      |       |        |      |       |        |    | 160 |
| 165 |      |       |        |         |      |       |        |      |       |        |    | 165 |
| 170 |      |       |        |         |      |       |        |      |       |        |    | 170 |
| 175 |      |       |        |         |      |       |        |      |       |        |    | 175 |
| 180 |      |       |        |         |      |       |        |      |       |        |    | 180 |
| 185 |      |       |        |         |      |       |        |      |       |        |    | 185 |
| 190 |      |       |        |         |      |       |        |      |       |        |    | 190 |
| 195 | 64.3 | 466.3 | 41,700 | 112,300 |      |       |        |      |       |        |    | 195 |
| 200 | 63.3 | 463.7 | 38,700 | 108,000 |      |       |        |      |       |        |    | 200 |
| 205 | 62.2 | 461.1 | 35,900 | 103,800 |      |       |        |      |       |        |    | 205 |
| 210 | 61.2 | 458.3 | 33,200 | 99,900  |      |       |        |      |       |        |    | 210 |
| 215 | 60.1 | 455.4 | 30,600 | 96,100  |      |       |        |      |       |        |    | 215 |
| 220 | 59.0 | 452.3 | 28,100 | 92,600  |      |       |        |      |       |        |    | 220 |
| 225 | 57.9 | 449.2 | 25,700 | 89,100  |      |       |        |      |       |        |    | 225 |
| 230 | 56.8 | 445.9 | 23,500 | 85,900  |      |       |        |      |       |        |    | 230 |
| 240 | 54.6 | 438.9 |        | 79,800  | 58.0 | 444.2 | 70,200 |      |       |        |    | 240 |
| 250 | 52.3 | 431.2 |        | 74,100  | 55.8 | 437.5 | 65,000 |      |       |        |    | 250 |
| 260 | 49.9 | 422.9 |        | 69,000  | 53.5 | 430.2 | 60,200 |      |       |        |    | 260 |
| 270 | 47.4 | 413.8 |        | 64,200  | 51.2 | 422.3 | 55,700 | 54.6 | 427.3 | 47,500 |    | 270 |
| 280 | 44.8 | 403.9 |        | 59,700  | 48.7 | 413.6 | 51,600 | 52.3 | 419.7 | 43,700 |    | 280 |
| 290 | 42.1 | 393.1 |        | 55,500  | 46.2 | 404.2 | 47,700 | 49.9 | 411.4 | 40,100 |    | 290 |
| 300 | 39.2 | 381.1 |        | 51,700  | 43.6 | 393.8 | 44,100 | 47.4 | 402.3 | 36,800 |    | 300 |
| 310 | 36.2 | 367.8 |        | 48,000  | 40.8 | 382.4 | 40,700 | 44.8 | 392.4 | 33,600 |    | 310 |
| 320 | 32.9 | 352.8 |        | 44,600  | 37.8 | 369.9 | 37,500 | 42.1 | 381.6 | 30,700 |    | 320 |
| 330 | 29.2 | 335.6 |        | 41,400  | 34.6 | 355.8 | 34,600 | 39.2 | 369.6 | 27,900 |    | 330 |
| 340 | 25.1 | 315.4 |        | 38,300  | 31.2 | 339.9 | 31,700 | 36.2 | 356.3 | 24,900 |    | 340 |
| 350 | 20.1 | 290.4 |        | 35,400  | 27.3 | 321.4 | 29,000 | 32.9 | 341.3 | 22,000 |    | 350 |
| 360 | 13.4 | 255.4 |        | 32,500  | 22.8 | 299.2 | 26,500 |      |       |        |    | 360 |
| 370 |      |       |        |         | 17.3 | 270.5 | 24,000 |      |       |        |    | 370 |
| 380 |      |       |        |         | 8.4  | 223.6 | 21,300 |      |       |        |    | 380 |

# MLC650 VPC-MAX S-1

ASME B30.5



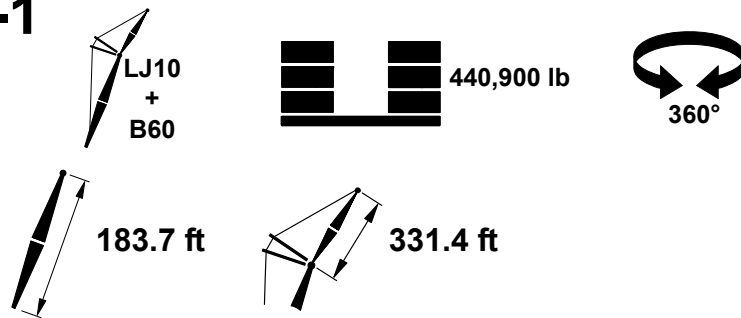
440,900 lb



| 85° |      |       |         |         | 83°  |       |         |         |      | 80°   |        |         |     |  |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|--------|---------|-----|--|
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb     | lb      | ft  |  |
| 115 | 74.9 | 512.3 | 111,900 | 111,900 |      |       |         |         |      |       |        |         | 115 |  |
| 120 | 74.0 | 510.8 | 111,200 | 111,200 |      |       |         |         |      |       |        |         | 120 |  |
| 125 | 73.1 | 509.2 | 110,700 | 110,700 |      |       |         |         |      |       |        |         | 125 |  |
| 130 | 72.2 | 507.6 | 110,000 | 110,000 |      |       |         |         |      |       |        |         | 130 |  |
| 135 | 71.2 | 505.9 | 109,400 | 109,400 | 72.4 | 507.3 | 108,900 | 108,900 |      |       |        |         | 135 |  |
| 140 | 70.3 | 504.0 | 108,700 | 108,700 | 71.5 | 505.6 | 108,400 | 108,400 |      |       |        |         | 140 |  |
| 145 | 69.4 | 502.1 | 108,000 | 108,000 | 70.6 | 503.8 | 107,900 | 107,900 |      |       |        |         | 145 |  |
| 150 | 68.5 | 500.1 | 107,300 | 107,300 | 69.7 | 501.9 | 107,400 | 107,400 |      |       |        |         | 150 |  |
| 155 | 67.5 | 498.0 | 106,600 | 106,600 | 68.7 | 499.9 | 102,400 | 106,800 |      |       |        |         | 155 |  |
| 160 | 66.6 | 495.8 | 104,900 | 105,900 | 67.8 | 497.8 | 96,600  | 106,200 | 69.6 | 500.1 | 84,200 | 104,000 | 160 |  |
| 165 | 65.6 | 493.5 | 99,200  | 105,100 | 66.9 | 495.7 | 91,100  | 105,600 | 68.6 | 498.1 | 79,100 | 103,700 | 165 |  |
| 170 | 64.7 | 491.1 | 93,800  | 104,400 | 65.9 | 493.4 | 86,000  | 105,000 | 67.7 | 496.0 | 74,300 | 103,300 | 170 |  |
| 175 | 63.7 | 488.6 | 88,700  | 103,600 | 64.9 | 491.0 | 81,100  | 104,400 | 66.8 | 493.9 | 69,800 | 103,000 | 175 |  |
| 180 | 62.7 | 486.0 | 83,900  | 102,800 | 64.0 | 488.6 | 76,600  | 103,800 | 65.8 | 491.6 | 65,600 | 102,600 | 180 |  |
| 185 | 61.8 | 483.3 | 79,400  | 102,100 | 63.0 | 486.0 | 72,300  | 103,200 | 64.9 | 489.2 | 61,600 | 102,300 | 185 |  |
| 190 | 60.8 | 480.5 | 75,100  | 101,300 | 62.0 | 483.3 | 68,200  | 102,500 | 63.9 | 486.7 | 57,800 | 101,800 | 190 |  |
| 195 | 59.8 | 477.5 | 71,100  | 100,600 | 61.0 | 480.5 | 64,300  | 101,900 | 62.9 | 484.1 | 54,200 | 101,400 | 195 |  |
| 200 | 58.7 | 474.5 | 67,200  | 99,800  | 60.0 | 477.6 | 60,600  | 101,300 | 61.9 | 481.4 | 50,800 | 101,000 | 200 |  |
| 205 | 57.7 | 471.3 | 63,600  | 99,100  | 59.0 | 474.6 | 57,200  | 100,600 | 60.9 | 478.6 | 47,600 | 100,600 | 205 |  |
| 210 | 56.7 | 468.0 | 60,100  | 98,400  | 58.0 | 471.4 | 53,800  | 100,000 | 59.9 | 475.7 | 44,500 | 100,200 | 210 |  |
| 215 | 55.6 | 464.5 | 56,800  | 97,600  | 57.0 | 468.1 | 50,700  | 99,400  | 58.9 | 472.7 | 41,500 | 99,700  | 215 |  |
| 220 | 54.6 | 460.9 | 53,600  | 96,900  | 55.9 | 464.7 | 47,600  | 98,700  | 57.9 | 469.5 | 38,700 | 99,300  | 220 |  |
| 225 | 53.5 | 457.2 | 50,600  | 96,200  | 54.9 | 461.2 | 44,800  | 98,100  | 56.9 | 466.2 | 36,100 | 96,700  | 225 |  |
| 230 | 52.4 | 453.3 | 47,700  | 95,500  | 53.8 | 457.5 | 42,000  | 97,500  | 55.8 | 462.8 | 33,500 | 93,200  | 230 |  |
| 240 | 50.2 | 445.1 | 42,300  | 92,700  | 51.6 | 449.6 | 36,800  | 92,700  | 53.7 | 455.5 | 28,700 | 86,700  | 240 |  |
| 250 | 47.8 | 436.1 | 37,300  | 88,300  | 49.3 | 441.1 | 32,000  | 86,500  | 51.5 | 447.6 | 24,200 | 80,700  | 250 |  |
| 260 | 45.4 | 426.4 | 32,600  | 84,000  | 47.0 | 431.9 | 27,600  | 80,700  | 49.2 | 439.1 | 20,100 | 75,100  | 260 |  |
| 270 | 42.9 | 415.9 | 28,300  | 79,000  | 44.5 | 421.9 | 23,500  | 75,400  | 46.9 | 429.9 |        | 70,000  | 270 |  |
| 280 | 40.3 | 404.3 | 24,300  | 73,900  | 42.0 | 411.0 |         | 70,400  | 44.4 | 419.8 |        | 65,300  | 280 |  |
| 290 | 37.5 | 391.5 | 20,600  | 69,100  | 39.3 | 399.0 |         | 65,800  | 41.8 | 408.9 |        | 60,800  | 290 |  |
| 300 | 34.5 | 377.3 |         | 64,700  | 36.4 | 385.8 |         | 61,500  | 39.1 | 396.8 |        | 56,700  | 300 |  |
| 310 | 31.2 | 361.4 |         | 60,500  | 33.3 | 371.0 |         | 57,400  | 36.3 | 383.5 |        | 52,800  | 310 |  |
| 320 | 27.6 | 343.0 |         | 56,600  | 29.9 | 354.3 |         | 53,600  | 33.2 | 368.7 |        | 49,200  | 320 |  |
| 330 | 23.5 | 321.4 |         | 52,900  | 26.2 | 334.9 |         | 50,000  | 29.8 | 351.8 |        | 45,700  | 330 |  |
| 340 | 18.4 | 294.1 |         | 49,400  | 21.8 | 311.6 |         | 46,600  | 26.0 | 332.3 |        | 42,500  | 340 |  |
| 350 | 11.4 | 254.4 |         | 44,700  | 16.3 | 281.2 |         | 43,400  | 21.5 | 308.7 |        | 39,400  | 350 |  |
| 360 |      |       |         |         | 7.1  | 229.4 |         | 39,300  | 15.9 | 277.9 |        | 36,400  | 360 |  |
| 370 |      |       |         |         |      |       |         |         | 6.3  | 223.1 |        | 33,400  | 370 |  |
| 380 |      |       |         |         |      |       |         |         |      |       |        |         | 380 |  |

# MLC650 VPC-MAX S-1

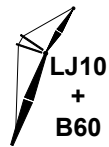
ASME B30.5



|     | 75°  |       |        | 70°  |       |        | 65°  |       |        |     |
|-----|------|-------|--------|------|-------|--------|------|-------|--------|-----|
|     |      |       |        |      |       |        |      |       |        |     |
|     | ft   | °     | ft     | lb   | °     | ft     | lb   | °     | ft     | lb  |
| 115 |      |       |        |      |       |        |      |       |        | 115 |
| 120 |      |       |        |      |       |        |      |       |        | 120 |
| 125 |      |       |        |      |       |        |      |       |        | 125 |
| 130 |      |       |        |      |       |        |      |       |        | 130 |
| 135 |      |       |        |      |       |        |      |       |        | 135 |
| 140 |      |       |        |      |       |        |      |       |        | 140 |
| 145 |      |       |        |      |       |        |      |       |        | 145 |
| 150 |      |       |        |      |       |        |      |       |        | 150 |
| 155 |      |       |        |      |       |        |      |       |        | 155 |
| 160 |      |       |        |      |       |        |      |       |        | 160 |
| 165 |      |       |        |      |       |        |      |       |        | 165 |
| 170 |      |       |        |      |       |        |      |       |        | 170 |
| 175 |      |       |        |      |       |        |      |       |        | 175 |
| 180 |      |       |        |      |       |        |      |       |        | 180 |
| 185 |      |       |        |      |       |        |      |       |        | 185 |
| 190 |      |       |        |      |       |        |      |       |        | 190 |
| 195 |      |       |        |      |       |        |      |       |        | 195 |
| 200 | 65.0 | 485.8 | 94,700 |      |       |        |      |       |        | 200 |
| 205 | 64.0 | 483.3 | 94,700 |      |       |        |      |       |        | 205 |
| 210 | 63.0 | 480.7 | 94,700 |      |       |        |      |       |        | 210 |
| 215 | 62.1 | 478.0 | 93,000 |      |       |        |      |       |        | 215 |
| 220 | 61.1 | 475.2 | 89,400 |      |       |        |      |       |        | 220 |
| 225 | 60.1 | 472.3 | 86,100 |      |       |        |      |       |        | 225 |
| 230 | 59.1 | 469.3 | 82,800 |      |       |        |      |       |        | 230 |
| 240 | 57.0 | 462.9 | 76,700 |      |       |        |      |       |        | 240 |
| 250 | 54.9 | 455.9 | 71,100 | 58.1 | 461.2 | 61,800 |      |       |        | 250 |
| 260 | 52.7 | 448.4 | 66,000 | 56.0 | 454.5 | 57,000 |      |       |        | 260 |
| 270 | 50.5 | 440.3 | 61,200 | 53.9 | 447.3 | 52,600 |      |       |        | 270 |
| 280 | 48.2 | 431.4 | 56,800 | 51.7 | 439.5 | 48,500 | 54.9 | 444.4 | 40,500 | 280 |
| 290 | 45.8 | 421.8 | 52,700 | 49.4 | 431.0 | 44,700 | 52.7 | 436.9 | 36,900 | 290 |
| 300 | 43.3 | 411.4 | 48,800 | 47.1 | 421.9 | 41,100 | 50.5 | 428.7 | 33,600 | 300 |
| 310 | 40.7 | 400.0 | 45,200 | 44.6 | 411.9 | 37,800 | 48.2 | 419.9 | 30,300 | 310 |
| 320 | 37.9 | 387.4 | 41,800 | 42.1 | 401.0 | 34,600 | 45.8 | 410.3 | 26,900 | 320 |
| 330 | 34.9 | 373.5 | 38,600 | 39.4 | 389.1 | 31,700 | 43.3 | 399.9 | 23,700 | 330 |
| 340 | 31.7 | 357.8 | 35,600 | 36.5 | 375.9 | 28,900 | 40.7 | 388.5 | 20,700 | 340 |
| 350 | 28.2 | 339.9 | 32,800 | 33.4 | 361.2 | 26,200 |      |       |        | 350 |
| 360 | 24.1 | 318.8 | 30,000 | 30.1 | 344.5 | 23,300 |      |       |        | 360 |
| 370 | 19.3 | 292.7 | 27,400 | 26.3 | 325.3 | 20,400 |      |       |        | 370 |
| 380 | 12.7 | 256.0 | 24,900 |      |       |        |      |       |        | 380 |

# MLC650 VPC-MAX S-1

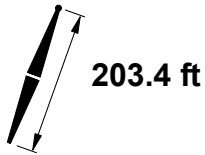
ASME B30.5



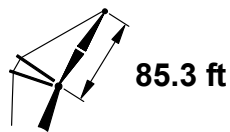
440,900 lb



360°



203.4 ft

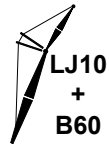


85.3 ft

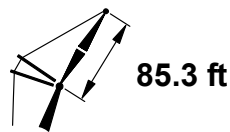
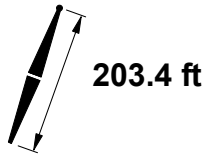
|     | 85°  |       |           |           | 83°  |       |           |           | 80°  |       |           |           |     |
|-----|------|-------|-----------|-----------|------|-------|-----------|-----------|------|-------|-----------|-----------|-----|
|     |      |       |           |           |      |       |           |           |      |       |           |           |     |
| ft  | °    | ft    | lb        | lb        | °    | ft    | lb        | lb        | °    | ft    | lb        | lb        | ft  |
| 55  | 73.1 | 293.5 | 451,300 c | 724,400 c |      |       |           |           |      |       |           |           | 55  |
| 60  | 69.5 | 291.5 | 406,400 c | 676,500 c |      |       |           |           |      |       |           |           | 60  |
| 65  | 65.8 | 289.1 | 368,900 c | 620,500 c | 71.0 | 291.5 | 350,300 c | 605,500 c |      |       |           |           | 65  |
| 70  | 61.9 | 286.3 | 337,100 b | 566,400 b | 67.3 | 289.3 | 320,000 c | 552,700 c |      |       |           |           | 70  |
| 75  | 57.9 | 283.1 | 309,800 b | 520,600 b | 63.6 | 286.7 | 294,000 b | 508,000 b |      |       |           |           | 75  |
| 80  | 53.7 | 279.3 | 286,000   | 481,300   | 59.6 | 283.6 | 271,400 b | 469,600 b | 67.7 | 287.8 | 249,400 b | 452,100 b | 80  |
| 85  | 49.3 | 274.9 | 265,100   | 447,100   | 55.5 | 280.1 | 251,500 b | 436,200 b | 64.0 | 285.2 | 231,100 b | 420,000 b | 85  |
| 90  | 44.4 | 269.7 | 246,600   | 417,100   | 51.1 | 275.9 | 233,900   | 407,000   | 60.1 | 282.2 | 214,800 b | 391,800 b | 90  |
| 95  | 39.1 | 263.4 | 230,000   | 390,600   | 46.5 | 271.1 | 218,200   | 381,100   | 56.0 | 278.7 | 200,300 b | 366,900 b | 95  |
| 100 | 32.9 | 255.7 | 214,900   | 367,000   | 41.4 | 265.3 | 204,000   | 358,100   | 51.6 | 274.7 | 187,200   | 344,700   | 100 |
| 105 | 25.3 | 245.5 | 201,100   | 345,700   | 35.6 | 258.3 | 191,100   | 337,400   | 47.0 | 269.9 | 175,400   | 324,800   | 105 |
| 110 | 13.3 | 228.4 | 187,900   | 317,600   | 28.7 | 249.3 | 179,200   | 318,600   | 41.9 | 264.2 | 164,600   | 306,800   | 110 |
| 115 |      |       |           |           | 19.3 | 236.3 | 167,900   | 301,500   | 36.2 | 257.4 | 154,600   | 290,500   | 115 |
| 120 |      |       |           |           |      |       |           |           | 29.5 | 248.7 | 145,300   | 275,500   | 120 |
| 125 |      |       |           |           |      |       |           |           | 20.6 | 236.3 | 136,500   | 261,700   | 125 |
| 130 |      |       |           |           |      |       |           |           |      |       |           |           | 130 |
| 135 |      |       |           |           |      |       |           |           |      |       |           |           | 135 |
| 140 |      |       |           |           |      |       |           |           |      |       |           |           | 140 |
| 145 |      |       |           |           |      |       |           |           |      |       |           |           | 145 |
| 150 |      |       |           |           |      |       |           |           |      |       |           |           | 150 |
| 155 |      |       |           |           |      |       |           |           |      |       |           |           | 155 |
| 160 |      |       |           |           |      |       |           |           |      |       |           |           | 160 |
| 165 |      |       |           |           |      |       |           |           |      |       |           |           | 165 |
| 170 |      |       |           |           |      |       |           |           |      |       |           |           | 170 |
| 175 |      |       |           |           |      |       |           |           |      |       |           |           | 175 |

# MLC650 VPC-MAX S-1

ASME B30.5



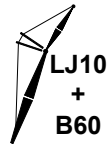
440,900 lb



|     | 75°  |       |           |           | 70°  |       |        |         | 65°  |       |        |         |     |
|-----|------|-------|-----------|-----------|------|-------|--------|---------|------|-------|--------|---------|-----|
|     |      |       |           |           |      |       |        |         |      |       |        |         |     |
| ft  | °    | ft    | lb        | lb        | °    | ft    | lb     | lb      | °    | ft    | lb     | lb      | ft  |
| 55  |      |       |           |           |      |       |        |         |      |       |        |         | 55  |
| 60  |      |       |           |           |      |       |        |         |      |       |        |         | 60  |
| 65  |      |       |           |           |      |       |        |         |      |       |        |         | 65  |
| 70  |      |       |           |           |      |       |        |         |      |       |        |         | 70  |
| 75  |      |       |           |           |      |       |        |         |      |       |        |         | 75  |
| 80  |      |       |           |           |      |       |        |         |      |       |        |         | 80  |
| 85  |      |       |           |           |      |       |        |         |      |       |        |         | 85  |
| 90  |      |       |           |           |      |       |        |         |      |       |        |         | 90  |
| 95  |      |       |           |           |      |       |        |         |      |       |        |         | 95  |
| 100 |      |       |           |           |      |       |        |         |      |       |        |         | 100 |
| 105 |      |       |           |           |      |       |        |         |      |       |        |         | 105 |
| 110 | 61.9 | 279.6 | 148,800 b | 303,900 b |      |       |        |         |      |       |        |         | 110 |
| 115 | 57.9 | 276.3 | 139,500 b | 287,100 b |      |       |        |         |      |       |        |         | 115 |
| 120 | 53.7 | 272.5 | 131,000 b | 271,900 b |      |       |        |         |      |       |        |         | 120 |
| 125 | 49.2 | 268.1 | 123,100   | 257,900   |      |       |        |         |      |       |        |         | 125 |
| 130 | 44.3 | 262.8 | 115,900   | 245,200   | 59.4 | 272.0 | 94,400 | 228,500 |      |       |        |         | 130 |
| 135 | 39.0 | 256.6 | 109,100   | 233,400   | 55.3 | 268.4 | 88,700 | 217,600 |      |       |        |         | 135 |
| 140 | 32.8 | 248.9 | 102,700   | 222,500   | 50.9 | 264.2 | 83,400 | 207,500 |      |       |        |         | 140 |
| 145 | 25.1 | 238.6 | 96,500    | 212,400   | 46.2 | 259.3 | 78,400 | 198,100 |      |       |        |         | 145 |
| 150 | 13.0 | 221.3 | 90,200    | 202,600   | 41.1 | 253.5 | 73,700 | 189,400 |      |       |        |         | 150 |
| 155 |      |       |           |           | 35.2 | 246.4 | 69,200 | 181,200 | 52.1 | 258.3 | 52,400 | 168,200 | 155 |
| 160 |      |       |           |           | 28.3 | 237.3 | 64,900 | 173,500 | 47.5 | 253.6 | 48,900 | 161,200 | 160 |
| 165 |      |       |           |           | 18.7 | 223.9 | 60,500 | 166,100 | 42.5 | 248.1 | 45,600 | 154,500 | 165 |
| 170 |      |       |           |           |      |       |        |         | 36.9 | 241.4 | 42,500 | 148,300 | 170 |
| 175 |      |       |           |           |      |       |        |         | 30.3 | 232.9 | 39,300 | 142,300 | 175 |
|     |      |       |           |           |      |       |        |         | 21.7 | 221.1 | 36,200 | 136,500 | 175 |

# MLC650 VPC-MAX S-1

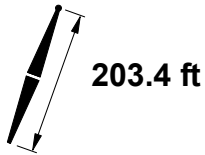
ASME B30.5



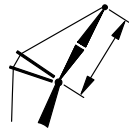
440,900 lb



360°



203.4 ft

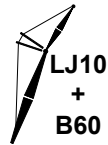


95.1 ft

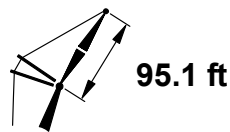
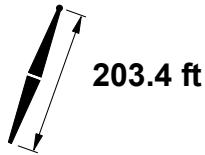
|     | 85°  |       |           |           | 83°  |       |           |           | 80°  |       |           |           |     |
|-----|------|-------|-----------|-----------|------|-------|-----------|-----------|------|-------|-----------|-----------|-----|
|     |      |       |           |           |      |       |           |           |      |       |           |           |     |
| ft  | °    | ft    | lb        | lb        | °    | ft    | lb        | lb        | °    | ft    | lb        | lb        | ft  |
| 55  | 74.9 | 303.8 | 448,700 c | 669,100 c |      |       |           |           |      |       |           |           | 55  |
| 60  | 71.7 | 302.1 | 403,900 c | 666,700 c |      |       |           |           |      |       |           |           | 60  |
| 65  | 68.5 | 300.0 | 366,500 c | 617,200 c |      |       |           |           |      |       |           |           | 65  |
| 70  | 65.1 | 297.6 | 334,700 b | 563,500 b | 69.8 | 300.1 | 317,300 b | 549,500 b |      |       |           |           | 70  |
| 75  | 61.7 | 294.8 | 307,500 b | 517,900 b | 66.5 | 297.8 | 291,400 b | 505,000 b |      |       |           |           | 75  |
| 80  | 58.1 | 291.6 | 283,900   | 478,700   | 63.1 | 295.1 | 268,900 b | 466,800 b |      |       |           |           | 80  |
| 85  | 54.4 | 287.9 | 263,100   | 444,700   | 59.6 | 292.1 | 249,100 b | 433,600 b | 66.9 | 296.3 | 228,100 b | 417,100 b | 85  |
| 90  | 50.4 | 283.6 | 244,700   | 414,900   | 55.9 | 288.6 | 231,600   | 404,500   | 63.5 | 293.7 | 212,000 b | 389,100 b | 90  |
| 95  | 46.2 | 278.8 | 228,300   | 388,600   | 52.1 | 284.6 | 216,000   | 378,800   | 60.0 | 290.7 | 197,600 b | 364,300 b | 95  |
| 100 | 41.7 | 273.1 | 213,500   | 365,100   | 48.0 | 280.0 | 202,000   | 355,900   | 56.3 | 287.3 | 184,600   | 342,200   | 100 |
| 105 | 36.6 | 266.3 | 200,100   | 344,000   | 43.6 | 274.7 | 189,300   | 335,400   | 52.5 | 283.3 | 172,900   | 322,500   | 105 |
| 110 | 30.8 | 258.0 | 187,800   | 325,000   | 38.8 | 268.4 | 177,700   | 316,800   | 48.4 | 278.8 | 162,300   | 304,600   | 110 |
| 115 | 23.5 | 247.0 | 176,300   | 307,600   | 33.3 | 260.8 | 167,000   | 300,000   | 44.1 | 273.5 | 152,500   | 288,500   | 115 |
| 120 | 11.8 | 228.3 | 165,200   | 287,100   | 26.7 | 251.1 | 157,100   | 284,600   | 39.3 | 267.4 | 143,500   | 273,700   | 120 |
| 125 |      |       |           |           | 17.8 | 237.1 | 147,600   | 270,300   | 33.9 | 259.9 | 135,200   | 260,100   | 125 |
| 130 |      |       |           |           |      |       |           |           | 27.5 | 250.6 | 127,300   | 247,600   | 130 |
| 135 |      |       |           |           |      |       |           |           | 19.0 | 237.2 | 119,800   | 235,900   | 135 |
| 140 |      |       |           |           |      |       |           |           |      |       |           |           | 140 |
| 145 |      |       |           |           |      |       |           |           |      |       |           |           | 145 |
| 150 |      |       |           |           |      |       |           |           |      |       |           |           | 150 |
| 155 |      |       |           |           |      |       |           |           |      |       |           |           | 155 |
| 160 |      |       |           |           |      |       |           |           |      |       |           |           | 160 |
| 165 |      |       |           |           |      |       |           |           |      |       |           |           | 165 |
| 170 |      |       |           |           |      |       |           |           |      |       |           |           | 170 |
| 175 |      |       |           |           |      |       |           |           |      |       |           |           | 175 |
| 180 |      |       |           |           |      |       |           |           |      |       |           |           | 180 |
| 185 |      |       |           |           |      |       |           |           |      |       |           |           | 185 |

# MLC650 VPC-MAX S-1

ASME B30.5



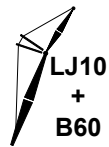
440,900 lb



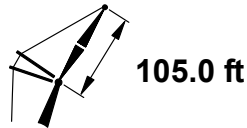
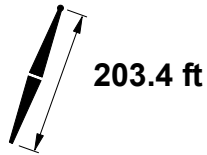
|     | 75°  |       |         |         | 70°  |       |        |         | 65°  |       |        |         |     |
|-----|------|-------|---------|---------|------|-------|--------|---------|------|-------|--------|---------|-----|
|     |      |       |         |         |      |       |        |         |      |       |        |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb     | lb      | °    | ft    | lb     | lb      | ft  |
| 55  |      |       |         |         |      |       |        |         |      |       |        |         | 55  |
| 60  |      |       |         |         |      |       |        |         |      |       |        |         | 60  |
| 65  |      |       |         |         |      |       |        |         |      |       |        |         | 65  |
| 70  |      |       |         |         |      |       |        |         |      |       |        |         | 70  |
| 75  |      |       |         |         |      |       |        |         |      |       |        |         | 75  |
| 80  |      |       |         |         |      |       |        |         |      |       |        |         | 80  |
| 85  |      |       |         |         |      |       |        |         |      |       |        |         | 85  |
| 90  |      |       |         |         |      |       |        |         |      |       |        |         | 90  |
| 95  |      |       |         |         |      |       |        |         |      |       |        |         | 95  |
| 100 |      |       |         |         |      |       |        |         |      |       |        |         | 100 |
| 105 |      |       |         |         |      |       |        |         |      |       |        |         | 105 |
| 110 | 61.6 | 288.0 | 136,400 | 284,400 |      |       |        |         |      |       |        |         | 110 |
| 115 | 58.0 | 284.8 | 128,000 | 269,300 |      |       |        |         |      |       |        |         | 115 |
| 120 | 54.3 | 281.1 | 120,300 | 255,500 |      |       |        |         |      |       |        |         | 120 |
| 125 | 50.4 | 276.8 | 113,200 | 242,900 |      |       |        |         |      |       |        |         | 125 |
| 130 | 46.1 | 271.9 | 106,600 | 231,200 | 59.4 | 280.4 | 85,500 | 214,900 |      |       |        |         | 130 |
| 135 | 41.6 | 266.2 | 100,400 | 220,500 | 55.7 | 276.9 | 80,300 | 204,900 |      |       |        |         | 135 |
| 140 | 36.5 | 259.4 | 94,600  | 210,500 | 51.9 | 272.9 | 75,400 | 195,700 |      |       |        |         | 140 |
| 145 | 30.6 | 251.1 | 89,100  | 201,200 | 47.8 | 268.3 | 70,900 | 187,100 |      |       |        |         | 145 |
| 150 | 23.3 | 240.0 | 83,800  | 192,500 | 43.4 | 262.9 | 66,600 | 179,000 |      |       |        |         | 150 |
| 155 | 11.5 | 221.0 | 78,200  | 184,000 | 38.5 | 256.5 | 62,500 | 171,500 | 52.9 | 267.0 | 45,700 | 158,600 | 155 |
| 160 |      |       |         |         | 33.0 | 248.9 | 58,600 | 164,400 | 48.9 | 262.5 | 42,600 | 152,100 | 160 |
| 165 |      |       |         |         | 26.3 | 239.0 | 54,800 | 157,700 | 44.6 | 257.3 | 39,600 | 145,900 | 165 |
| 170 |      |       |         |         | 17.1 | 224.6 | 50,900 | 151,200 | 39.8 | 251.3 | 36,700 | 140,100 | 170 |
| 175 |      |       |         |         |      |       |        |         | 34.5 | 244.0 | 33,900 | 134,600 | 175 |
| 180 |      |       |         |         |      |       |        |         | 28.3 | 234.9 | 31,100 | 129,400 | 180 |
| 185 |      |       |         |         |      |       |        |         | 20.1 | 222.2 | 28,300 | 124,300 | 185 |

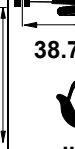
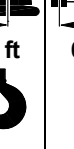
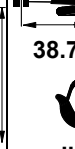
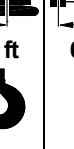
# MLC650 VPC-MAX S-1

ASME B30.5



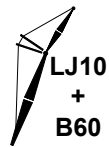
440,900 lb



|     | 85°                                                                              |                                                                                   |                                                                                   |                                                                                   | 83°                                                                               |                                                                                   |                                                                                   |                                                                                   | 80°                                                                               |                                                                                   |                                                                                   |                                                                                    |                                                                                     |
|-----|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|     |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ft  | °                                                                                | ft                                                                                | lb                                                                                | lb                                                                                | °                                                                                 | ft                                                                                | lb                                                                                | lb                                                                                | °                                                                                 | ft                                                                                | lb                                                                                | lb                                                                                 | ft                                                                                  |
| 60  | 73.5                                                                             | 312.5                                                                             | 402,500 c                                                                         | 614,400 c                                                                         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 60                                                                                  |
| 65  | 70.6                                                                             | 310.7                                                                             | 365,200 b                                                                         | 611,900 b                                                                         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 65                                                                                  |
| 70  | 67.6                                                                             | 308.5                                                                             | 333,500 b                                                                         | 561,300 b                                                                         | 71.8                                                                              | 310.6                                                                             | 315,800 b                                                                         | 547,200 b                                                                         |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 70                                                                                  |
| 75  | 64.6                                                                             | 306.1                                                                             | 306,400 b                                                                         | 516,000 b                                                                         | 68.9                                                                              | 308.6                                                                             | 290,000 b                                                                         | 502,900 b                                                                         |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 75                                                                                  |
| 80  | 61.5                                                                             | 303.3                                                                             | 282,800 b                                                                         | 477,000 b                                                                         | 65.9                                                                              | 306.3                                                                             | 267,500 b                                                                         | 464,900 b                                                                         |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 80                                                                                  |
| 85  | 58.2                                                                             | 300.1                                                                             | 262,100                                                                           | 443,200                                                                           | 62.8                                                                              | 303.6                                                                             | 247,900 b                                                                         | 431,900 b                                                                         | 69.2                                                                              | 307.1                                                                             | 226,500 b                                                                         | 415,100 b                                                                          | 85                                                                                  |
| 90  | 54.9                                                                             | 296.4                                                                             | 243,800                                                                           | 413,500                                                                           | 59.6                                                                              | 300.6                                                                             | 230,500                                                                           | 403,000                                                                           | 66.2                                                                              | 304.8                                                                             | 210,400 b                                                                         | 387,300 b                                                                          | 90                                                                                  |
| 95  | 51.4                                                                             | 292.4                                                                             | 227,500                                                                           | 387,300                                                                           | 56.3                                                                              | 297.1                                                                             | 214,900                                                                           | 377,400                                                                           | 63.1                                                                              | 302.2                                                                             | 196,100 b                                                                         | 362,600 b                                                                          | 95                                                                                  |
| 100 | 47.6                                                                             | 287.7                                                                             | 212,800                                                                           | 363,900                                                                           | 52.8                                                                              | 293.3                                                                             | 201,000                                                                           | 354,600                                                                           | 59.9                                                                              | 299.2                                                                             | 183,300                                                                           | 340,700                                                                            | 100                                                                                 |
| 105 | 43.6                                                                             | 282.4                                                                             | 199,600                                                                           | 343,000                                                                           | 49.2                                                                              | 288.8                                                                             | 188,400                                                                           | 334,200                                                                           | 56.6                                                                              | 295.8                                                                             | 171,700                                                                           | 321,000                                                                            | 105                                                                                 |
| 110 | 39.3                                                                             | 276.2                                                                             | 187,500                                                                           | 324,100                                                                           | 45.3                                                                              | 283.8                                                                             | 177,000                                                                           | 315,800                                                                           | 53.2                                                                              | 292.0                                                                             | 161,100                                                                           | 303,300                                                                            | 110                                                                                 |
| 115 | 34.5                                                                             | 268.9                                                                             | 176,400                                                                           | 306,900                                                                           | 41.2                                                                              | 278.0                                                                             | 166,500                                                                           | 299,000                                                                           | 49.6                                                                              | 287.6                                                                             | 151,500                                                                           | 287,200                                                                            | 115                                                                                 |
| 120 | 28.9                                                                             | 260.0                                                                             | 166,200                                                                           | 291,300                                                                           | 36.6                                                                              | 271.3                                                                             | 156,900                                                                           | 283,800                                                                           | 45.8                                                                              | 282.7                                                                             | 142,600                                                                           | 272,600                                                                            | 120                                                                                 |
| 125 | 22.0                                                                             | 248.3                                                                             | 156,600                                                                           | 276,800                                                                           | 31.4                                                                              | 263.1                                                                             | 147,900                                                                           | 269,800                                                                           | 41.6                                                                              | 277.0                                                                             | 134,500                                                                           | 259,100                                                                            | 125                                                                                 |
| 130 | 10.5                                                                             | 227.9                                                                             | 147,100                                                                           | 261,700                                                                           | 25.1                                                                              | 252.8                                                                             | 139,500                                                                           | 256,900                                                                           | 37.1                                                                              | 270.3                                                                             | 126,900                                                                           | 246,800                                                                            | 130                                                                                 |
| 135 |                                                                                  |                                                                                   |                                                                                   |                                                                                   | 16.4                                                                              | 237.7                                                                             | 131,400                                                                           | 244,800                                                                           | 32.0                                                                              | 262.3                                                                             | 119,800                                                                           | 235,400                                                                            | 135                                                                                 |
| 140 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 25.8                                                                              | 252.3                                                                             | 113,000                                                                           | 224,800                                                                            | 140                                                                                 |
| 145 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 17.6                                                                              | 238.0                                                                             | 106,500                                                                           | 214,800                                                                            | 145                                                                                 |
| 150 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 150                                                                                 |
| 155 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 155                                                                                 |
| 160 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 160                                                                                 |
| 165 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 165                                                                                 |
| 170 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 170                                                                                 |
| 175 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 175                                                                                 |
| 180 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 180                                                                                 |
| 185 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 185                                                                                 |
| 190 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 190                                                                                 |
| 195 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 195                                                                                 |

# MLC650 VPC-MAX S-1

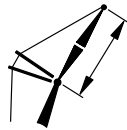
ASME B30.5



440,900 lb



203.4 ft

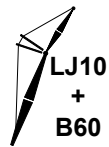


105.0 ft

|     | 75°  |       |         |         | 70°  |       |        |         | 65°  |       |        |         |     |
|-----|------|-------|---------|---------|------|-------|--------|---------|------|-------|--------|---------|-----|
|     |      |       |         |         |      |       |        |         |      |       |        |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb     | lb      | °    | ft    | lb     | lb      | ft  |
| 60  |      |       |         |         |      |       |        |         |      |       |        |         | 60  |
| 65  |      |       |         |         |      |       |        |         |      |       |        |         | 65  |
| 70  |      |       |         |         |      |       |        |         |      |       |        |         | 70  |
| 75  |      |       |         |         |      |       |        |         |      |       |        |         | 75  |
| 80  |      |       |         |         |      |       |        |         |      |       |        |         | 80  |
| 85  |      |       |         |         |      |       |        |         |      |       |        |         | 85  |
| 90  |      |       |         |         |      |       |        |         |      |       |        |         | 90  |
| 95  |      |       |         |         |      |       |        |         |      |       |        |         | 95  |
| 100 |      |       |         |         |      |       |        |         |      |       |        |         | 100 |
| 105 |      |       |         |         |      |       |        |         |      |       |        |         | 105 |
| 110 | 64.6 | 299.3 | 134,700 | 282,800 |      |       |        |         |      |       |        |         | 110 |
| 115 | 61.4 | 296.5 | 126,400 | 267,700 |      |       |        |         |      |       |        |         | 115 |
| 120 | 58.2 | 293.3 | 118,700 | 254,000 |      |       |        |         |      |       |        |         | 120 |
| 125 | 54.8 | 289.7 | 111,700 | 241,500 |      |       |        |         |      |       |        |         | 125 |
| 130 | 51.3 | 285.6 | 105,200 | 229,900 |      |       |        |         |      |       |        |         | 130 |
| 135 | 47.6 | 280.9 | 99,200  | 219,300 | 59.4 | 288.9 | 78,500 | 203,400 |      |       |        |         | 135 |
| 140 | 43.6 | 275.6 | 93,500  | 209,400 | 56.1 | 285.5 | 73,800 | 194,200 |      |       |        |         | 140 |
| 145 | 39.2 | 269.4 | 88,200  | 200,300 | 52.6 | 281.6 | 69,300 | 185,700 |      |       |        |         | 145 |
| 150 | 34.4 | 262.1 | 83,200  | 191,700 | 49.0 | 277.1 | 65,100 | 177,700 |      |       |        |         | 150 |
| 155 | 28.8 | 253.1 | 78,400  | 183,700 | 45.1 | 272.1 | 61,200 | 170,300 |      |       |        |         | 155 |
| 160 | 21.8 | 241.3 | 73,700  | 176,100 | 40.9 | 266.2 | 57,400 | 163,300 | 53.6 | 275.6 | 40,900 | 150,600 | 160 |
| 165 | 10.2 | 220.6 | 68,800  | 168,700 | 36.3 | 259.4 | 53,900 | 156,800 | 50.0 | 271.3 | 38,000 | 144,600 | 165 |
| 170 |      |       |         |         | 31.1 | 251.1 | 50,400 | 150,600 | 46.2 | 266.4 | 35,200 | 138,900 | 170 |
| 175 |      |       |         |         | 24.7 | 240.6 | 47,000 | 144,700 | 42.1 | 260.8 | 32,500 | 133,500 | 175 |
| 180 |      |       |         |         | 15.8 | 225.1 | 43,500 | 138,900 | 37.6 | 254.3 | 30,000 | 128,300 | 180 |
| 185 |      |       |         |         |      |       |        |         | 32.5 | 246.4 | 27,500 | 123,500 | 185 |
| 190 |      |       |         |         |      |       |        |         | 26.6 | 236.7 | 25,000 | 118,800 | 190 |
| 195 |      |       |         |         |      |       |        |         | 18.6 | 223.1 | 22,500 | 114,200 | 195 |

# MLC650 VPC-MAX S-1

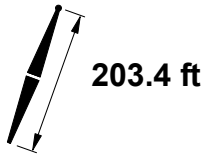
ASME B30.5



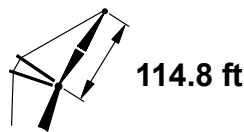
440,900 lb



360°



203.4 ft

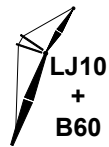


114.8 ft

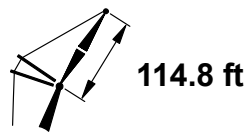
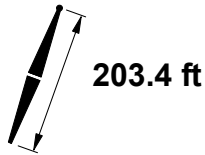
|     | 85°  |       |           |           | 83°  |       |           |           | 80°  |       |         |         |     |
|-----|------|-------|-----------|-----------|------|-------|-----------|-----------|------|-------|---------|---------|-----|
|     |      |       |           |           |      |       |           |           |      |       |         |         |     |
| ft  | °    | ft    | lb        | lb        | °    | ft    | lb        | lb        | °    | ft    | lb      | lb      | ft  |
| 60  | 75.0 | 322.9 | 434,200 b | 565,100 b |      |       |           |           |      |       |         |         | 60  |
| 65  | 72.4 | 321.2 | 394,000 b | 564,700 b |      |       |           |           |      |       |         |         | 65  |
| 70  | 69.7 | 319.3 | 360,100 b | 558,300 b |      |       |           |           |      |       |         |         | 70  |
| 75  | 67.0 | 317.1 | 330,900 b | 513,100 b | 70.8 | 319.3 | 314,100 b | 499,900 b |      |       |         |         | 75  |
| 80  | 64.2 | 314.6 | 305,600   | 474,300   | 68.1 | 317.2 | 290,000 b | 462,100 b |      |       |         |         | 80  |
| 85  | 61.3 | 311.7 | 283,400   | 440,600   | 65.3 | 314.8 | 268,800   | 429,200   |      |       |         |         | 85  |
| 90  | 58.4 | 308.6 | 263,800   | 411,100   | 62.5 | 312.1 | 250,100   | 400,400   | 68.4 | 315.7 | 229,600 | 384,400 | 90  |
| 95  | 55.3 | 305.0 | 246,300   | 385,000   | 59.6 | 309.1 | 233,400   | 374,900   | 65.6 | 313.3 | 214,100 | 359,900 | 95  |
| 100 | 52.1 | 301.0 | 230,600   | 361,700   | 56.6 | 305.7 | 218,400   | 352,200   | 62.8 | 310.6 | 200,300 | 338,100 | 100 |
| 105 | 48.8 | 296.6 | 216,400   | 340,900   | 53.4 | 301.9 | 204,900   | 331,900   | 59.9 | 307.7 | 187,700 | 318,500 | 105 |
| 110 | 45.2 | 291.5 | 203,600   | 322,100   | 50.2 | 297.6 | 192,700   | 313,600   | 56.9 | 304.3 | 176,400 | 300,900 | 110 |
| 115 | 41.4 | 285.8 | 191,800   | 305,000   | 46.7 | 292.8 | 181,500   | 297,000   | 53.8 | 300.6 | 166,000 | 284,900 | 115 |
| 120 | 37.3 | 279.2 | 181,000   | 289,500   | 43.0 | 287.4 | 171,300   | 281,800   | 50.5 | 296.3 | 156,500 | 270,300 | 120 |
| 125 | 32.7 | 271.4 | 171,000   | 275,200   | 39.1 | 281.2 | 161,800   | 267,900   | 47.1 | 291.6 | 147,800 | 257,000 | 125 |
| 130 | 27.3 | 261.9 | 161,700   | 262,100   | 34.7 | 273.9 | 153,000   | 255,200   | 43.4 | 286.3 | 139,700 | 244,700 | 130 |
| 135 | 20.6 | 249.4 | 152,900   | 249,900   | 29.7 | 265.3 | 144,800   | 243,400   | 39.5 | 280.2 | 132,100 | 233,400 | 135 |
| 140 | 9.3  | 227.3 | 144,100   | 237,200   | 23.7 | 254.3 | 137,000   | 232,400   | 35.2 | 273.0 | 125,100 | 223,000 | 140 |
| 145 |      |       |           |           | 15.2 | 238.2 | 129,500   | 222,100   | 30.3 | 264.6 | 118,500 | 213,200 | 145 |
| 150 |      |       |           |           |      |       |           |           | 24.4 | 253.9 | 112,100 | 204,100 | 150 |
| 155 |      |       |           |           |      |       |           |           | 16.4 | 238.6 | 106,000 | 195,400 | 155 |
| 160 |      |       |           |           |      |       |           |           |      |       |         |         | 160 |
| 165 |      |       |           |           |      |       |           |           |      |       |         |         | 165 |
| 170 |      |       |           |           |      |       |           |           |      |       |         |         | 170 |
| 175 |      |       |           |           |      |       |           |           |      |       |         |         | 175 |
| 180 |      |       |           |           |      |       |           |           |      |       |         |         | 180 |
| 185 |      |       |           |           |      |       |           |           |      |       |         |         | 185 |
| 190 |      |       |           |           |      |       |           |           |      |       |         |         | 190 |
| 195 |      |       |           |           |      |       |           |           |      |       |         |         | 195 |
| 200 |      |       |           |           |      |       |           |           |      |       |         |         | 200 |
| 205 |      |       |           |           |      |       |           |           |      |       |         |         | 205 |

# MLC650 VPC-MAX S-1

ASME B30.5



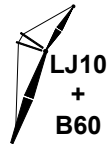
440,900 lb



|     | 75°  |       |         |         | 70°  |       |        |         | 65°  |       |        |         |     |
|-----|------|-------|---------|---------|------|-------|--------|---------|------|-------|--------|---------|-----|
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb     | lb      | °    | ft    | lb     | lb      | ft  |
| 60  |      |       |         |         |      |       |        |         |      |       |        |         | 60  |
| 65  |      |       |         |         |      |       |        |         |      |       |        |         | 65  |
| 70  |      |       |         |         |      |       |        |         |      |       |        |         | 70  |
| 75  |      |       |         |         |      |       |        |         |      |       |        |         | 75  |
| 80  |      |       |         |         |      |       |        |         |      |       |        |         | 80  |
| 85  |      |       |         |         |      |       |        |         |      |       |        |         | 85  |
| 90  |      |       |         |         |      |       |        |         |      |       |        |         | 90  |
| 95  |      |       |         |         |      |       |        |         |      |       |        |         | 95  |
| 100 |      |       |         |         |      |       |        |         |      |       |        |         | 100 |
| 105 |      |       |         |         |      |       |        |         |      |       |        |         | 105 |
| 110 |      |       |         |         |      |       |        |         |      |       |        |         | 110 |
| 115 | 64.1 | 307.8 | 140,300 | 265,000 |      |       |        |         |      |       |        |         | 115 |
| 120 | 61.3 | 305.0 | 132,000 | 251,400 |      |       |        |         |      |       |        |         | 120 |
| 125 | 58.3 | 301.8 | 124,400 | 238,900 |      |       |        |         |      |       |        |         | 125 |
| 130 | 55.2 | 298.2 | 117,300 | 227,500 |      |       |        |         |      |       |        |         | 130 |
| 135 | 52.1 | 294.2 | 110,800 | 216,900 |      |       |        |         |      |       |        |         | 135 |
| 140 | 48.7 | 289.8 | 104,700 | 207,100 | 59.4 | 297.4 | 84,400 | 191,600 |      |       |        |         | 140 |
| 145 | 45.2 | 284.7 | 99,000  | 198,100 | 56.4 | 294.0 | 79,500 | 183,100 |      |       |        |         | 145 |
| 150 | 41.4 | 279.0 | 93,700  | 189,600 | 53.3 | 290.2 | 75,000 | 175,200 |      |       |        |         | 150 |
| 155 | 37.2 | 272.3 | 88,600  | 181,700 | 50.0 | 285.9 | 70,700 | 167,900 |      |       |        |         | 155 |
| 160 | 32.6 | 264.6 | 83,800  | 174,300 | 46.5 | 281.1 | 66,600 | 161,000 |      |       |        |         | 160 |
| 165 | 27.3 | 255.0 | 79,300  | 167,300 | 42.8 | 275.6 | 62,800 | 154,500 | 54.1 | 284.2 | 46,400 | 142,000 | 165 |
| 170 | 20.5 | 242.5 | 74,800  | 160,600 | 38.8 | 269.3 | 59,200 | 148,400 | 50.9 | 280.0 | 43,300 | 136,300 | 170 |
| 175 | 9.0  | 219.9 | 70,000  | 154,000 | 34.4 | 262.0 | 55,700 | 142,700 | 47.5 | 275.3 | 40,500 | 131,000 | 175 |
| 180 |      |       |         |         | 29.4 | 253.3 | 52,300 | 137,200 | 43.8 | 270.1 | 37,700 | 126,000 | 180 |
| 185 |      |       |         |         | 23.3 | 242.1 | 49,000 | 132,000 | 39.9 | 264.0 | 35,100 | 121,200 | 185 |
| 190 |      |       |         |         | 14.6 | 225.5 | 45,600 | 126,800 | 35.7 | 257.0 | 32,500 | 116,700 | 190 |
| 195 |      |       |         |         |      |       |        |         | 30.8 | 248.7 | 30,000 | 112,300 | 195 |
| 200 |      |       |         |         |      |       |        |         | 25.1 | 238.4 | 27,500 | 108,200 | 200 |
| 205 |      |       |         |         |      |       |        |         | 17.4 | 223.8 | 25,000 | 104,100 | 205 |

# MLC650 VPC-MAX S-1

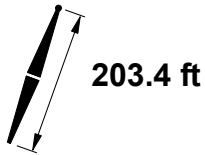
ASME B30.5



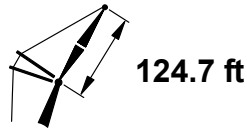
440,900 lb



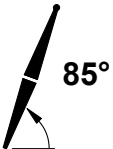
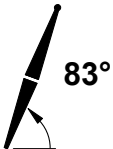
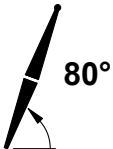
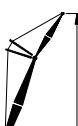
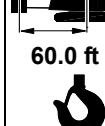
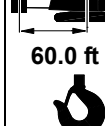
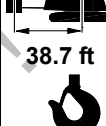
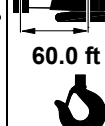
360°



203.4 ft

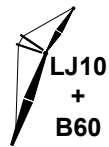


124.7 ft

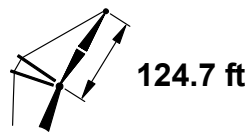
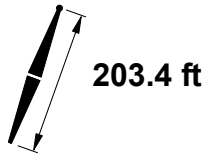
|  85° |                                                                                     |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |  83° |                                                                                     |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |  80° |                                                                                      |                                                                                        |                                                                                                                                                                                       |                                                                                                                                                                                       |                                                                                        |     |
|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-----|
|  ft  |  ° |  ft |  38.7 ft<br> lb |  60.0 ft<br> lb |                                                                                       |  ° |  ft |  38.7 ft<br> lb |  60.0 ft<br> lb |                                                                                         |  ° |  ft |  38.7 ft<br> lb |  60.0 ft<br> lb |  ft |     |
| 65                                                                                    | 73.8                                                                                | 331.6                                                                                | 394,200 b                                                                                                                                                                         | 522,900 b                                                                                                                                                                         |                                                                                       |                                                                                     |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                         |                                                                                      |                                                                                        |                                                                                                                                                                                       |                                                                                                                                                                                       |                                                                                        | 65  |
| 70                                                                                    | 71.4                                                                                | 329.9                                                                                | 360,200 b                                                                                                                                                                         | 522,000 b                                                                                                                                                                         |                                                                                       |                                                                                     |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                         |                                                                                      |                                                                                        |                                                                                                                                                                                       |                                                                                                                                                                                       |                                                                                        | 70  |
| 75                                                                                    | 68.9                                                                                | 327.8                                                                                | 331,100 b                                                                                                                                                                         | 512,200 b                                                                                                                                                                         | 72.4                                                                                  | 329.8                                                                               | 314,200 b                                                                            | 499,000 b                                                                                                                                                                         |                                                                                                                                                                                   |                                                                                         |                                                                                      |                                                                                        |                                                                                                                                                                                       |                                                                                                                                                                                       |                                                                                        | 75  |
| 80                                                                                    | 66.4                                                                                | 325.6                                                                                | 305,800                                                                                                                                                                           | 473,600                                                                                                                                                                           | 69.9                                                                                  | 327.9                                                                               | 290,100 b                                                                            | 461,300 b                                                                                                                                                                         |                                                                                                                                                                                   |                                                                                         |                                                                                      |                                                                                        |                                                                                                                                                                                       |                                                                                                                                                                                       |                                                                                        | 80  |
| 85                                                                                    | 63.8                                                                                | 323.0                                                                                | 283,700                                                                                                                                                                           | 440,000                                                                                                                                                                           | 67.4                                                                                  | 325.7                                                                               | 269,000                                                                              | 428,600                                                                                                                                                                           |                                                                                                                                                                                   |                                                                                         |                                                                                      |                                                                                        |                                                                                                                                                                                       |                                                                                                                                                                                       |                                                                                        | 85  |
| 90                                                                                    | 61.2                                                                                | 320.2                                                                                | 264,100                                                                                                                                                                           | 410,600                                                                                                                                                                           | 64.9                                                                                  | 323.3                                                                               | 250,300                                                                              | 399,900                                                                                                                                                                           |                                                                                                                                                                                   |                                                                                         |                                                                                      |                                                                                        |                                                                                                                                                                                       |                                                                                                                                                                                       |                                                                                        | 90  |
| 95                                                                                    | 58.4                                                                                | 317.0                                                                                | 246,700                                                                                                                                                                           | 384,600                                                                                                                                                                           | 62.3                                                                                  | 320.6                                                                               | 233,700                                                                              | 374,500                                                                                                                                                                           |                                                                                                                                                                                   |                                                                                         |                                                                                      |                                                                                        |                                                                                                                                                                                       |                                                                                                                                                                                       |                                                                                        | 95  |
| 100                                                                                   | 55.6                                                                                | 313.5                                                                                | 231,100                                                                                                                                                                           | 361,500                                                                                                                                                                           | 59.6                                                                                  | 317.5                                                                               | 218,800                                                                              | 351,900                                                                                                                                                                           |                                                                                                                                                                                   |                                                                                         |                                                                                      |                                                                                        |                                                                                                                                                                                       |                                                                                                                                                                                       |                                                                                        | 100 |
| 105                                                                                   | 52.7                                                                                | 309.7                                                                                | 217,000                                                                                                                                                                           | 340,700                                                                                                                                                                           | 56.8                                                                                  | 314.2                                                                               | 205,300                                                                              | 331,700                                                                                                                                                                           |                                                                                                                                                                                   |                                                                                         |                                                                                      |                                                                                        |                                                                                                                                                                                       |                                                                                                                                                                                       |                                                                                        | 105 |
| 110                                                                                   | 49.7                                                                                | 305.3                                                                                | 204,200                                                                                                                                                                           | 322,000                                                                                                                                                                           | 53.9                                                                                  | 310.5                                                                               | 193,100                                                                              | 313,400                                                                                                                                                                           |                                                                                                                                                                                   |                                                                                         |                                                                                      |                                                                                        |                                                                                                                                                                                       |                                                                                                                                                                                       |                                                                                        | 110 |
| 115                                                                                   | 46.5                                                                                | 300.5                                                                                | 192,500                                                                                                                                                                           | 305,000                                                                                                                                                                           | 51.0                                                                                  | 306.3                                                                               | 182,000                                                                              | 296,900                                                                                                                                                                           |                                                                                                                                                                                   |                                                                                         |                                                                                      |                                                                                        |                                                                                                                                                                                       |                                                                                                                                                                                       |                                                                                        | 115 |
| 120                                                                                   | 43.1                                                                                | 295.1                                                                                | 181,800                                                                                                                                                                           | 289,600                                                                                                                                                                           | 47.8                                                                                  | 301.7                                                                               | 171,800                                                                              | 281,800                                                                                                                                                                           |                                                                                                                                                                                   |                                                                                         |                                                                                      |                                                                                        |                                                                                                                                                                                       |                                                                                                                                                                                       |                                                                                        | 120 |
| 125                                                                                   | 39.5                                                                                | 289.0                                                                                | 172,000                                                                                                                                                                           | 275,400                                                                                                                                                                           | 44.5                                                                                  | 296.6                                                                               | 162,500                                                                              | 268,000                                                                                                                                                                           |                                                                                                                                                                                   |                                                                                         |                                                                                      |                                                                                        |                                                                                                                                                                                       |                                                                                                                                                                                       |                                                                                        | 125 |
| 130                                                                                   | 35.5                                                                                | 282.0                                                                                | 162,800                                                                                                                                                                           | 262,400                                                                                                                                                                           | 41.0                                                                                  | 290.8                                                                               | 153,800                                                                              | 255,300                                                                                                                                                                           |                                                                                                                                                                                   |                                                                                         |                                                                                      |                                                                                        |                                                                                                                                                                                       |                                                                                                                                                                                       |                                                                                        | 130 |
| 135                                                                                   | 31.1                                                                                | 273.8                                                                                | 154,300                                                                                                                                                                           | 250,400                                                                                                                                                                           | 37.2                                                                                  | 284.2                                                                               | 145,700                                                                              | 243,600                                                                                                                                                                           |                                                                                                                                                                                   |                                                                                         |                                                                                      |                                                                                        |                                                                                                                                                                                       |                                                                                                                                                                                       |                                                                                        | 135 |
| 140                                                                                   | 26.0                                                                                | 263.7                                                                                | 146,400                                                                                                                                                                           | 239,200                                                                                                                                                                           | 33.0                                                                                  | 276.5                                                                               | 138,200                                                                              | 232,800                                                                                                                                                                           |                                                                                                                                                                                   |                                                                                         |                                                                                      |                                                                                        |                                                                                                                                                                                       |                                                                                                                                                                                       |                                                                                        | 140 |
| 145                                                                                   | 19.5                                                                                | 250.5                                                                                | 138,700                                                                                                                                                                           | 228,800                                                                                                                                                                           | 28.2                                                                                  | 267.3                                                                               | 131,100                                                                              | 222,700                                                                                                                                                                           |                                                                                                                                                                                   |                                                                                         |                                                                                      |                                                                                        |                                                                                                                                                                                       |                                                                                                                                                                                       |                                                                                        | 145 |
| 150                                                                                   | 8.2                                                                                 | 226.5                                                                                | 131,000                                                                                                                                                                           | 218,200                                                                                                                                                                           | 22.4                                                                                  | 255.7                                                                               | 124,400                                                                              | 213,300                                                                                                                                                                           |                                                                                                                                                                                   |                                                                                         |                                                                                      |                                                                                        |                                                                                                                                                                                       |                                                                                                                                                                                       |                                                                                        | 150 |
| 155                                                                                   |                                                                                     |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   | 14.2                                                                                  | 238.5                                                                               | 117,800                                                                              | 204,300                                                                                                                                                                           |                                                                                                                                                                                   |                                                                                         |                                                                                      |                                                                                        |                                                                                                                                                                                       |                                                                                                                                                                                       |                                                                                        | 155 |
| 160                                                                                   |                                                                                     |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                     |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                         |                                                                                      |                                                                                        |                                                                                                                                                                                       |                                                                                                                                                                                       |                                                                                        | 160 |
| 165                                                                                   |                                                                                     |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                     |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                         |                                                                                      |                                                                                        |                                                                                                                                                                                       |                                                                                                                                                                                       |                                                                                        | 165 |
| 170                                                                                   |                                                                                     |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                     |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                         |                                                                                      |                                                                                        |                                                                                                                                                                                       |                                                                                                                                                                                       |                                                                                        | 170 |
| 175                                                                                   |                                                                                     |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                     |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                         |                                                                                      |                                                                                        |                                                                                                                                                                                       |                                                                                                                                                                                       |                                                                                        | 175 |
| 180                                                                                   |                                                                                     |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                     |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                         |                                                                                      |                                                                                        |                                                                                                                                                                                       |                                                                                                                                                                                       |                                                                                        | 180 |
| 185                                                                                   |                                                                                     |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                     |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                         |                                                                                      |                                                                                        |                                                                                                                                                                                       |                                                                                                                                                                                       |                                                                                        | 185 |
| 190                                                                                   |                                                                                     |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                     |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                         |                                                                                      |                                                                                        |                                                                                                                                                                                       |                                                                                                                                                                                       |                                                                                        | 190 |
| 195                                                                                   |                                                                                     |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                     |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                         |                                                                                      |                                                                                        |                                                                                                                                                                                       |                                                                                                                                                                                       |                                                                                        | 195 |
| 200                                                                                   |                                                                                     |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                     |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                         |                                                                                      |                                                                                        |                                                                                                                                                                                       |                                                                                                                                                                                       |                                                                                        | 200 |
| 205                                                                                   |                                                                                     |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                     |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                         |                                                                                      |                                                                                        |                                                                                                                                                                                       |                                                                                                                                                                                       |                                                                                        | 205 |
| 210                                                                                   |                                                                                     |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                     |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                         |                                                                                      |                                                                                        |                                                                                                                                                                                       |                                                                                                                                                                                       |                                                                                        | 210 |
| 215                                                                                   |                                                                                     |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                     |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                         |                                                                                      |                                                                                        |                                                                                                                                                                                       |                                                                                                                                                                                       |                                                                                        | 215 |

# MLC650 VPC-MAX S-1

ASME B30.5



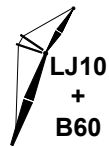
440,900 lb



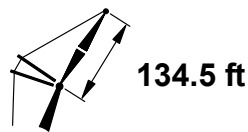
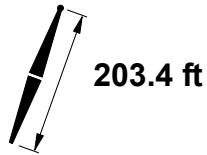
|     | 75°  |       |         |         | 70°  |       |        |         | 65°  |       |        |         |     |
|-----|------|-------|---------|---------|------|-------|--------|---------|------|-------|--------|---------|-----|
|     |      |       |         |         |      |       |        |         |      |       |        |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb     | lb      | °    | ft    | lb     | lb      | ft  |
| 65  |      |       |         |         |      |       |        |         |      |       |        |         | 65  |
| 70  |      |       |         |         |      |       |        |         |      |       |        |         | 70  |
| 75  |      |       |         |         |      |       |        |         |      |       |        |         | 75  |
| 80  |      |       |         |         |      |       |        |         |      |       |        |         | 80  |
| 85  |      |       |         |         |      |       |        |         |      |       |        |         | 85  |
| 90  |      |       |         |         |      |       |        |         |      |       |        |         | 90  |
| 95  |      |       |         |         |      |       |        |         |      |       |        |         | 95  |
| 100 |      |       |         |         |      |       |        |         |      |       |        |         | 100 |
| 105 |      |       |         |         |      |       |        |         |      |       |        |         | 105 |
| 110 |      |       |         |         |      |       |        |         |      |       |        |         | 110 |
| 115 |      |       |         |         |      |       |        |         |      |       |        |         | 115 |
| 120 | 63.8 | 316.3 | 132,100 | 251,100 |      |       |        |         |      |       |        |         | 120 |
| 125 | 61.1 | 313.4 | 124,500 | 238,700 |      |       |        |         |      |       |        |         | 125 |
| 130 | 58.4 | 310.3 | 117,500 | 227,300 |      |       |        |         |      |       |        |         | 130 |
| 135 | 55.6 | 306.8 | 111,000 | 216,800 |      |       |        |         |      |       |        |         | 135 |
| 140 | 52.7 | 302.9 | 105,000 | 207,100 |      |       |        |         |      |       |        |         | 140 |
| 145 | 49.6 | 298.5 | 99,400  | 198,100 | 59.4 | 305.9 | 79,600 | 183,000 |      |       |        |         | 145 |
| 150 | 46.4 | 293.7 | 94,100  | 189,700 | 56.7 | 302.5 | 75,100 | 175,100 |      |       |        |         | 150 |
| 155 | 43.1 | 288.3 | 89,200  | 181,800 | 53.8 | 298.8 | 70,900 | 167,800 |      |       |        |         | 155 |
| 160 | 39.4 | 282.2 | 84,500  | 174,500 | 50.8 | 294.6 | 66,900 | 161,000 |      |       |        |         | 160 |
| 165 | 35.5 | 275.1 | 80,100  | 167,600 | 47.7 | 290.0 | 63,100 | 154,600 |      |       |        |         | 165 |
| 170 | 31.0 | 266.9 | 75,800  | 161,100 | 44.4 | 284.8 | 59,600 | 148,600 | 54.6 | 292.7 | 43,500 | 136,300 | 170 |
| 175 | 25.9 | 256.8 | 71,800  | 154,900 | 40.8 | 279.0 | 56,200 | 142,900 | 51.6 | 288.7 | 40,600 | 131,000 | 175 |
| 180 | 19.3 | 243.5 | 67,800  | 149,000 | 37.0 | 272.3 | 53,000 | 137,500 | 48.5 | 284.2 | 37,900 | 126,000 | 180 |
| 185 | 7.8  | 219.0 | 63,400  | 143,100 | 32.8 | 264.5 | 49,900 | 132,400 | 45.3 | 279.2 | 35,400 | 121,300 | 185 |
| 190 |      |       |         |         | 27.9 | 255.3 | 46,800 | 127,500 | 41.8 | 273.5 | 32,900 | 116,800 | 190 |
| 195 |      |       |         |         | 22.0 | 243.5 | 43,900 | 122,800 | 38.1 | 267.1 | 30,500 | 112,600 | 195 |
| 200 |      |       |         |         | 13.6 | 225.7 | 40,700 | 118,200 | 34.0 | 259.7 | 28,300 | 108,500 | 200 |
| 205 |      |       |         |         |      |       |        |         | 29.3 | 250.9 | 26,000 | 104,600 | 205 |
| 210 |      |       |         |         |      |       |        |         | 23.8 | 239.9 | 23,800 | 100,900 | 210 |
| 215 |      |       |         |         |      |       |        |         | 16.3 | 224.5 | 21,400 | 97,200  | 215 |

# MLC650 VPC-MAX S-1

ASME B30.5



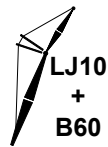
440,900 lb



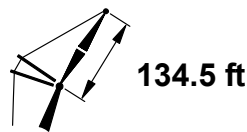
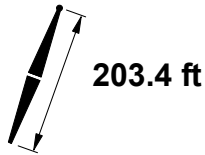
|     | 85°  |       |           |           | 83°  |       |         |         | 80°  |       |         |         |     |
|-----|------|-------|-----------|-----------|------|-------|---------|---------|------|-------|---------|---------|-----|
|     |      |       |           |           |      |       |         |         |      |       |         |         |     |
| ft  | °    | ft    | lb        | lb        | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | ft  |
| 70  | 72.8 | 340.3 | 357,700 b | 482,100 b |      |       |         |         |      |       |         |         | 70  |
| 75  | 70.5 | 338.5 | 328,600   | 481,000   |      |       |         |         |      |       |         |         | 75  |
| 80  | 68.2 | 336.4 | 303,400   | 470,900   | 71.5 | 338.4 | 287,400 | 458,500 |      |       |         |         | 80  |
| 85  | 65.9 | 334.1 | 281,300   | 437,500   | 69.2 | 336.4 | 266,300 | 425,900 |      |       |         |         | 85  |
| 90  | 63.5 | 331.5 | 261,700   | 408,200   | 66.9 | 334.2 | 247,700 | 397,300 |      |       |         |         | 90  |
| 95  | 61.0 | 328.7 | 244,400   | 382,300   | 64.5 | 331.8 | 231,100 | 372,000 | 69.4 | 334.9 | 211,300 | 356,700 | 95  |
| 100 | 58.5 | 325.5 | 228,800   | 359,200   | 62.1 | 329.0 | 216,200 | 349,500 | 67.1 | 332.7 | 197,500 | 335,100 | 100 |
| 105 | 55.9 | 322.1 | 214,700   | 338,600   | 59.6 | 326.0 | 202,900 | 329,400 | 64.7 | 330.3 | 185,100 | 315,700 | 105 |
| 110 | 53.3 | 318.3 | 202,000   | 319,900   | 57.0 | 322.7 | 190,700 | 311,200 | 62.3 | 327.6 | 173,800 | 298,200 | 110 |
| 115 | 50.5 | 314.1 | 190,400   | 303,000   | 54.4 | 319.0 | 179,700 | 294,700 | 59.8 | 324.6 | 163,600 | 282,300 | 115 |
| 120 | 47.6 | 309.4 | 179,800   | 287,600   | 51.6 | 315.0 | 169,500 | 279,700 | 57.3 | 321.3 | 154,200 | 267,900 | 120 |
| 125 | 44.5 | 304.3 | 170,000   | 273,500   | 48.8 | 310.5 | 160,200 | 266,000 | 54.7 | 317.7 | 145,600 | 254,700 | 125 |
| 130 | 41.3 | 298.5 | 160,900   | 260,600   | 45.8 | 305.6 | 151,600 | 253,400 | 51.9 | 313.7 | 137,600 | 242,600 | 130 |
| 135 | 37.8 | 292.0 | 152,500   | 248,600   | 42.6 | 300.1 | 143,600 | 241,700 | 49.1 | 309.3 | 130,300 | 231,400 | 135 |
| 140 | 34.0 | 284.6 | 144,700   | 237,600   | 39.3 | 294.0 | 136,200 | 231,000 | 46.1 | 304.4 | 123,400 | 221,100 | 140 |
| 145 | 29.7 | 275.9 | 137,400   | 227,300   | 35.6 | 287.0 | 129,300 | 221,000 | 43.0 | 299.0 | 117,000 | 211,500 | 145 |
| 150 | 24.7 | 265.4 | 130,400   | 217,700   | 31.5 | 278.9 | 122,700 | 211,600 | 39.6 | 292.9 | 111,000 | 202,500 | 150 |
| 155 | 18.4 | 251.4 | 123,800   | 208,700   | 26.9 | 269.2 | 116,600 | 202,900 | 36.0 | 286.0 | 105,400 | 194,200 | 155 |
| 160 | 7.1  | 225.3 | 116,900   | 198,100   | 21.3 | 256.9 | 110,700 | 194,700 | 32.0 | 278.1 | 100,000 | 186,300 | 160 |
| 165 |      |       |           |           | 13.2 | 238.7 | 104,800 | 186,900 | 27.4 | 268.6 | 94,900  | 179,000 | 165 |
| 170 |      |       |           |           |      |       |         |         | 21.9 | 256.7 | 90,000  | 172,000 | 170 |
| 175 |      |       |           |           |      |       |         |         | 14.3 | 239.5 | 85,200  | 165,300 | 175 |
| 180 |      |       |           |           |      |       |         |         |      |       |         |         | 180 |
| 185 |      |       |           |           |      |       |         |         |      |       |         |         | 185 |
| 190 |      |       |           |           |      |       |         |         |      |       |         |         | 190 |
| 195 |      |       |           |           |      |       |         |         |      |       |         |         | 195 |
| 200 |      |       |           |           |      |       |         |         |      |       |         |         | 200 |
| 205 |      |       |           |           |      |       |         |         |      |       |         |         | 205 |
| 210 |      |       |           |           |      |       |         |         |      |       |         |         | 210 |
| 215 |      |       |           |           |      |       |         |         |      |       |         |         | 215 |
| 220 |      |       |           |           |      |       |         |         |      |       |         |         | 220 |
| 225 |      |       |           |           |      |       |         |         |      |       |         |         | 225 |

# MLC650 VPC-MAX S-1

ASME B30.5



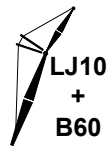
440,900 lb



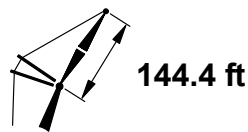
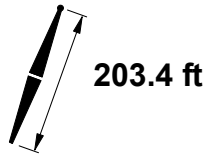
|     | 75°  |       |         |         | 70°  |       |        |         | 65°  |       |        |         |     |
|-----|------|-------|---------|---------|------|-------|--------|---------|------|-------|--------|---------|-----|
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb     | lb      | °    | ft    | lb     | lb      | ft  |
| 70  |      |       |         |         |      |       |        |         |      |       |        |         | 70  |
| 75  |      |       |         |         |      |       |        |         |      |       |        |         | 75  |
| 80  |      |       |         |         |      |       |        |         |      |       |        |         | 80  |
| 85  |      |       |         |         |      |       |        |         |      |       |        |         | 85  |
| 90  |      |       |         |         |      |       |        |         |      |       |        |         | 90  |
| 95  |      |       |         |         |      |       |        |         |      |       |        |         | 95  |
| 100 |      |       |         |         |      |       |        |         |      |       |        |         | 100 |
| 105 |      |       |         |         |      |       |        |         |      |       |        |         | 105 |
| 110 |      |       |         |         |      |       |        |         |      |       |        |         | 110 |
| 115 |      |       |         |         |      |       |        |         |      |       |        |         | 115 |
| 120 |      |       |         |         |      |       |        |         |      |       |        |         | 120 |
| 125 | 63.4 | 324.7 | 121,400 | 236,100 |      |       |        |         |      |       |        |         | 125 |
| 130 | 61.0 | 321.9 | 114,500 | 224,800 |      |       |        |         |      |       |        |         | 130 |
| 135 | 58.5 | 318.8 | 108,100 | 214,400 |      |       |        |         |      |       |        |         | 135 |
| 140 | 55.9 | 315.3 | 102,100 | 204,700 |      |       |        |         |      |       |        |         | 140 |
| 145 | 53.2 | 311.5 | 96,500  | 195,700 |      |       |        |         |      |       |        |         | 145 |
| 150 | 50.4 | 307.3 | 91,300  | 187,400 | 59.4 | 314.4 | 71,900 | 172,600 |      |       |        |         | 150 |
| 155 | 47.5 | 302.6 | 86,500  | 179,600 | 56.9 | 311.0 | 67,700 | 165,300 |      |       |        |         | 155 |
| 160 | 44.5 | 297.5 | 81,900  | 172,300 | 54.2 | 307.3 | 63,800 | 158,600 |      |       |        |         | 160 |
| 165 | 41.2 | 291.7 | 77,500  | 165,500 | 51.5 | 303.3 | 60,100 | 152,200 |      |       |        |         | 165 |
| 170 | 37.7 | 285.2 | 73,400  | 159,100 | 48.6 | 298.8 | 56,600 | 146,200 |      |       |        |         | 170 |
| 175 | 33.9 | 277.8 | 69,500  | 153,000 | 45.6 | 293.9 | 53,300 | 140,600 | 54.9 | 301.3 | 37,400 | 128,500 | 175 |
| 180 | 29.6 | 269.1 | 65,800  | 147,200 | 42.5 | 288.3 | 50,200 | 135,300 | 52.2 | 297.3 | 34,800 | 123,600 | 180 |
| 185 | 24.6 | 258.5 | 62,100  | 141,800 | 39.1 | 282.1 | 47,200 | 130,200 | 49.4 | 293.0 | 32,300 | 118,900 | 185 |
| 190 | 18.3 | 244.4 | 58,500  | 136,500 | 35.4 | 275.1 | 44,300 | 125,500 | 46.5 | 288.2 | 29,900 | 114,500 | 190 |
| 195 | 6.7  | 217.7 | 54,600  | 131,200 | 31.3 | 266.9 | 41,500 | 120,900 | 43.3 | 282.8 | 27,600 | 110,300 | 195 |
| 200 |      |       |         |         | 26.6 | 257.1 | 38,800 | 116,500 | 40.0 | 276.8 | 25,400 | 106,300 | 200 |
| 205 |      |       |         |         | 20.9 | 244.7 | 36,100 | 112,300 | 36.4 | 270.0 | 23,300 | 102,500 | 205 |
| 210 |      |       |         |         | 12.6 | 225.9 | 33,300 | 108,200 | 32.4 | 262.1 | 21,200 | 98,800  | 210 |
| 215 |      |       |         |         |      |       |        |         | 28.0 | 252.9 |        | 95,300  | 215 |
| 220 |      |       |         |         |      |       |        |         | 22.6 | 241.3 |        | 91,900  | 220 |
| 225 |      |       |         |         |      |       |        |         | 15.3 | 225.0 |        | 88,500  | 225 |

# MLC650 VPC-MAX S-1

ASME B30.5



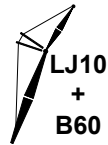
440,900 lb



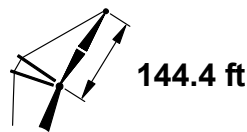
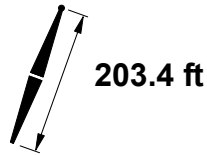
|     | 85°  |       |           |           | 83°  |       |         |         | 80°  |       |         |         |     |
|-----|------|-------|-----------|-----------|------|-------|---------|---------|------|-------|---------|---------|-----|
|     |      |       |           |           |      |       |         |         |      |       |         |         |     |
| ft  | °    | ft    | lb        | lb        | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | ft  |
| 70  | 74.0 | 350.7 | 384,900 b | 445,900 b |      |       |         |         |      |       |         |         | 70  |
| 75  | 71.9 | 349.0 | 353,800   | 445,800   |      |       |         |         |      |       |         |         | 75  |
| 80  | 69.8 | 347.1 | 326,800   | 444,600   | 72.8 | 348.9 | 310,600 | 445,700 |      |       |         |         | 80  |
| 85  | 67.6 | 344.9 | 303,100   | 435,500   | 70.7 | 347.0 | 288,000 | 423,700 |      |       |         |         | 85  |
| 90  | 65.4 | 342.6 | 282,300   | 406,300   | 68.5 | 345.0 | 268,000 | 395,200 |      |       |         |         | 90  |
| 95  | 63.2 | 340.0 | 263,700   | 380,400   | 66.4 | 342.7 | 250,200 | 370,100 |      |       |         |         | 95  |
| 100 | 60.9 | 337.1 | 247,000   | 357,400   | 64.1 | 340.2 | 234,300 | 347,700 | 68.8 | 343.5 | 215,400 | 333,100 | 100 |
| 105 | 58.6 | 334.0 | 232,000   | 336,800   | 61.9 | 337.5 | 220,000 | 327,600 | 66.6 | 341.2 | 202,000 | 313,800 | 105 |
| 110 | 56.2 | 330.6 | 218,400   | 318,200   | 59.6 | 334.5 | 207,000 | 309,400 | 64.4 | 338.8 | 189,900 | 296,300 | 110 |
| 115 | 53.7 | 326.9 | 206,000   | 301,400   | 57.2 | 331.2 | 195,100 | 293,000 | 62.1 | 336.1 | 178,800 | 280,500 | 115 |
| 120 | 51.1 | 322.8 | 194,700   | 286,100   | 54.7 | 327.6 | 184,300 | 278,100 | 59.8 | 333.1 | 168,700 | 266,200 | 120 |
| 125 | 48.5 | 318.3 | 184,300   | 272,000   | 52.2 | 323.6 | 174,300 | 264,400 | 57.4 | 329.8 | 159,500 | 253,000 | 125 |
| 130 | 45.7 | 313.3 | 174,700   | 259,100   | 49.6 | 319.3 | 165,100 | 251,800 | 55.0 | 326.2 | 150,900 | 240,900 | 130 |
| 135 | 42.7 | 307.8 | 165,700   | 247,300   | 46.9 | 314.6 | 156,600 | 240,300 | 52.5 | 322.3 | 143,000 | 229,800 | 135 |
| 140 | 39.6 | 301.8 | 157,500   | 236,300   | 44.0 | 309.3 | 148,700 | 229,500 | 49.9 | 318.1 | 135,700 | 219,500 | 140 |
| 145 | 36.3 | 294.9 | 149,700   | 226,100   | 40.9 | 303.5 | 141,400 | 219,600 | 47.2 | 313.3 | 128,800 | 210,000 | 145 |
| 150 | 32.6 | 287.1 | 142,500   | 216,500   | 37.7 | 297.0 | 134,500 | 210,400 | 44.3 | 308.2 | 122,400 | 201,100 | 150 |
| 155 | 28.5 | 278.0 | 135,700   | 207,700   | 34.1 | 289.6 | 128,000 | 201,700 | 41.3 | 302.4 | 116,400 | 192,800 | 155 |
| 160 | 23.6 | 266.9 | 129,200   | 199,300   | 30.2 | 281.1 | 121,900 | 193,600 | 38.0 | 296.0 | 110,800 | 185,000 | 160 |
| 165 | 17.5 | 252.2 | 122,900   | 191,400   | 25.7 | 271.0 | 116,100 | 186,000 | 34.5 | 288.7 | 105,400 | 177,700 | 165 |
| 170 | 6.0  | 223.8 | 116,400   | 180,800   | 20.3 | 258.1 | 110,500 | 178,800 | 30.7 | 280.4 | 100,400 | 170,900 | 170 |
| 175 |      |       |           |           | 12.4 | 238.8 | 104,900 | 171,900 | 26.3 | 270.4 | 95,500  | 164,400 | 175 |
| 180 |      |       |           |           |      |       |         |         | 20.9 | 257.9 | 90,800  | 158,200 | 180 |
| 185 |      |       |           |           |      |       |         |         | 13.5 | 239.8 | 86,200  | 152,300 | 185 |
| 190 |      |       |           |           |      |       |         |         |      |       |         |         | 190 |
| 195 |      |       |           |           |      |       |         |         |      |       |         |         | 195 |
| 200 |      |       |           |           |      |       |         |         |      |       |         |         | 200 |
| 205 |      |       |           |           |      |       |         |         |      |       |         |         | 205 |
| 210 |      |       |           |           |      |       |         |         |      |       |         |         | 210 |
| 215 |      |       |           |           |      |       |         |         |      |       |         |         | 215 |
| 220 |      |       |           |           |      |       |         |         |      |       |         |         | 220 |
| 225 |      |       |           |           |      |       |         |         |      |       |         |         | 225 |
| 230 |      |       |           |           |      |       |         |         |      |       |         |         | 230 |

# MLC650 VPC-MAX S-1

ASME B30.5



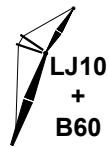
440,900 lb



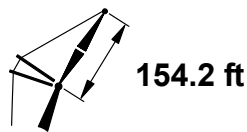
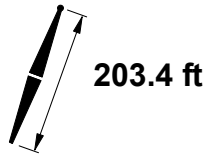
|     | 75°  |       |         |         | 70°  |       |        |         | 65°  |       |        |         |     |
|-----|------|-------|---------|---------|------|-------|--------|---------|------|-------|--------|---------|-----|
|     |      |       |         |         |      |       |        |         |      |       |        |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb     | lb      | °    | ft    | lb     | lb      | ft  |
| 70  |      |       |         |         |      |       |        |         |      |       |        |         | 70  |
| 75  |      |       |         |         |      |       |        |         |      |       |        |         | 75  |
| 80  |      |       |         |         |      |       |        |         |      |       |        |         | 80  |
| 85  |      |       |         |         |      |       |        |         |      |       |        |         | 85  |
| 90  |      |       |         |         |      |       |        |         |      |       |        |         | 90  |
| 95  |      |       |         |         |      |       |        |         |      |       |        |         | 95  |
| 100 |      |       |         |         |      |       |        |         |      |       |        |         | 100 |
| 105 |      |       |         |         |      |       |        |         |      |       |        |         | 105 |
| 110 |      |       |         |         |      |       |        |         |      |       |        |         | 110 |
| 115 |      |       |         |         |      |       |        |         |      |       |        |         | 115 |
| 120 |      |       |         |         |      |       |        |         |      |       |        |         | 120 |
| 125 |      |       |         |         |      |       |        |         |      |       |        |         | 125 |
| 130 | 63.2 | 333.2 | 127,400 | 223,000 |      |       |        |         |      |       |        |         | 130 |
| 135 | 60.9 | 330.4 | 120,500 | 212,600 |      |       |        |         |      |       |        |         | 135 |
| 140 | 58.5 | 327.2 | 114,000 | 203,000 |      |       |        |         |      |       |        |         | 140 |
| 145 | 56.1 | 323.8 | 108,000 | 194,100 |      |       |        |         |      |       |        |         | 145 |
| 150 | 53.7 | 320.1 | 102,400 | 185,800 |      |       |        |         |      |       |        |         | 150 |
| 155 | 51.1 | 316.0 | 97,200  | 178,000 | 59.4 | 322.8 | 78,100 | 163,600 |      |       |        |         | 155 |
| 160 | 48.4 | 311.5 | 92,200  | 170,800 | 57.1 | 319.5 | 73,900 | 156,900 |      |       |        |         | 160 |
| 165 | 45.6 | 306.5 | 87,600  | 164,000 | 54.6 | 315.9 | 69,800 | 150,500 |      |       |        |         | 165 |
| 170 | 42.7 | 301.0 | 83,200  | 157,600 | 52.1 | 311.9 | 66,000 | 144,600 |      |       |        |         | 170 |
| 175 | 39.6 | 294.9 | 79,000  | 151,600 | 49.4 | 307.6 | 62,400 | 139,000 |      |       |        |         | 175 |
| 180 | 36.2 | 288.1 | 75,000  | 145,900 | 46.7 | 302.8 | 59,000 | 133,700 |      |       |        |         | 180 |
| 185 | 32.5 | 280.3 | 71,200  | 140,500 | 43.8 | 297.5 | 55,800 | 128,800 | 52.8 | 306.0 | 40,600 | 117,200 | 185 |
| 190 | 28.4 | 271.1 | 67,600  | 135,400 | 40.8 | 291.7 | 52,700 | 124,000 | 50.2 | 301.7 | 38,000 | 112,900 | 190 |
| 195 | 23.5 | 260.0 | 64,100  | 130,500 | 37.5 | 285.1 | 49,700 | 119,500 | 47.4 | 297.1 | 35,500 | 108,700 | 195 |
| 200 | 17.3 | 245.2 | 60,600  | 125,800 | 33.9 | 277.7 | 46,900 | 115,200 | 44.6 | 291.9 | 33,100 | 104,700 | 200 |
| 205 | 5.5  | 215.9 | 56,600  | 121,000 | 30.0 | 269.1 | 44,200 | 111,200 | 41.6 | 286.2 | 30,800 | 101,000 | 205 |
| 210 |      |       |         |         | 25.5 | 258.9 | 41,500 | 107,200 | 38.4 | 279.9 | 28,600 | 97,400  | 210 |
| 215 |      |       |         |         | 19.9 | 245.8 | 38,800 | 103,400 | 34.9 | 272.7 | 26,400 | 93,900  | 215 |
| 220 |      |       |         |         | 11.8 | 225.9 | 36,000 | 99,600  | 31.1 | 264.5 | 24,400 | 90,600  | 220 |
| 225 |      |       |         |         |      |       |        |         | 26.8 | 254.8 | 22,300 | 87,500  | 225 |
| 230 |      |       |         |         |      |       |        |         | 21.6 | 242.6 | 20,300 | 84,400  | 230 |

# MLC650 VPC-MAX S-1

ASME B30.5



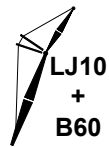
440,900 lb



|     | 85°  |       |         |         | 83°  |       |         |         | 80°  |       |         |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|---------|---------|-----|
|     |      |       |         |         |      |       |         |         |      |       |         |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | ft  |
| 75  | 73.1 | 359.4 | 351,300 | 413,000 |      |       |         |         |      |       |         |         | 75  |
| 80  | 71.1 | 357.6 | 324,300 | 412,600 |      |       |         |         |      |       |         |         | 80  |
| 85  | 69.2 | 355.7 | 300,700 | 411,400 | 72.0 | 357.5 | 285,300 | 413,600 |      |       |         |         | 85  |
| 90  | 67.1 | 353.5 | 279,800 | 403,800 | 70.0 | 355.6 | 265,300 | 392,700 |      |       |         |         | 90  |
| 95  | 65.1 | 351.1 | 261,300 | 378,100 | 68.0 | 353.5 | 247,600 | 367,600 |      |       |         |         | 95  |
| 100 | 63.0 | 348.5 | 244,700 | 355,200 | 65.9 | 351.2 | 231,700 | 345,300 |      |       |         |         | 100 |
| 105 | 60.8 | 345.6 | 229,700 | 334,600 | 63.8 | 348.7 | 217,400 | 325,200 | 68.2 | 352.0 | 199,100 | 311,200 | 105 |
| 110 | 58.6 | 342.5 | 216,100 | 316,100 | 61.7 | 346.0 | 204,500 | 307,200 | 66.1 | 349.8 | 187,100 | 293,900 | 110 |
| 115 | 56.4 | 339.1 | 203,800 | 299,300 | 59.6 | 343.0 | 192,600 | 290,800 | 64.1 | 347.3 | 176,100 | 278,100 | 115 |
| 120 | 54.1 | 335.4 | 192,500 | 284,000 | 57.3 | 339.7 | 181,900 | 275,900 | 62.0 | 344.5 | 166,000 | 263,800 | 120 |
| 125 | 51.7 | 331.4 | 182,100 | 270,100 | 55.1 | 336.1 | 171,900 | 262,300 | 59.8 | 341.6 | 156,800 | 250,700 | 125 |
| 130 | 49.2 | 327.0 | 172,500 | 257,200 | 52.7 | 332.3 | 162,800 | 249,800 | 57.6 | 338.3 | 148,300 | 238,700 | 130 |
| 135 | 46.7 | 322.3 | 163,600 | 245,400 | 50.3 | 328.0 | 154,300 | 238,300 | 55.3 | 334.8 | 140,400 | 227,600 | 135 |
| 140 | 44.0 | 317.0 | 155,400 | 234,400 | 47.8 | 323.4 | 146,500 | 227,600 | 53.0 | 330.9 | 133,100 | 217,400 | 140 |
| 145 | 41.2 | 311.3 | 147,700 | 224,300 | 45.1 | 318.4 | 139,200 | 217,700 | 50.5 | 326.8 | 126,300 | 207,900 | 145 |
| 150 | 38.1 | 304.9 | 140,600 | 214,800 | 42.3 | 312.9 | 132,300 | 208,500 | 48.0 | 322.2 | 120,000 | 199,000 | 150 |
| 155 | 34.9 | 297.7 | 133,800 | 206,000 | 39.4 | 306.7 | 125,900 | 199,900 | 45.4 | 317.2 | 114,000 | 190,800 | 155 |
| 160 | 31.3 | 289.5 | 127,500 | 197,700 | 36.3 | 299.9 | 119,900 | 191,800 | 42.6 | 311.7 | 108,400 | 183,100 | 160 |
| 165 | 27.3 | 280.0 | 121,500 | 189,900 | 32.8 | 292.2 | 114,200 | 184,300 | 39.7 | 305.7 | 103,200 | 175,800 | 165 |
| 170 | 22.6 | 268.4 | 115,700 | 182,600 | 29.0 | 283.3 | 108,800 | 177,200 | 36.6 | 298.9 | 98,200  | 169,000 | 170 |
| 175 | 16.6 | 253.0 | 110,200 | 175,600 | 24.7 | 272.6 | 103,600 | 170,500 | 33.2 | 291.3 | 93,500  | 162,600 | 175 |
| 180 | 4.8  | 221.6 | 104,200 | 163,800 | 19.3 | 259.2 | 98,600  | 164,100 | 29.5 | 282.5 | 89,000  | 156,500 | 180 |
| 185 |      |       |         |         | 11.6 | 238.8 | 93,600  | 157,900 | 25.2 | 272.1 | 84,600  | 150,700 | 185 |
| 190 |      |       |         |         |      |       |         |         | 20.0 | 259.1 | 80,400  | 145,200 | 190 |
| 195 |      |       |         |         |      |       |         |         | 12.7 | 240.0 | 76,200  | 139,900 | 195 |
| 200 |      |       |         |         |      |       |         |         |      |       |         |         | 200 |
| 205 |      |       |         |         |      |       |         |         |      |       |         |         | 205 |
| 210 |      |       |         |         |      |       |         |         |      |       |         |         | 210 |
| 215 |      |       |         |         |      |       |         |         |      |       |         |         | 215 |
| 220 |      |       |         |         |      |       |         |         |      |       |         |         | 220 |
| 225 |      |       |         |         |      |       |         |         |      |       |         |         | 225 |
| 230 |      |       |         |         |      |       |         |         |      |       |         |         | 230 |
| 240 |      |       |         |         |      |       |         |         |      |       |         |         | 240 |

# MLC650 VPC-MAX S-1

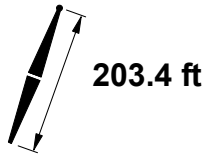
ASME B30.5



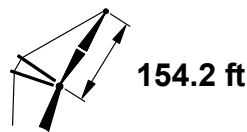
440,900 lb



360°



203.4 ft

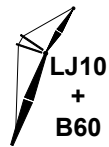


154.2 ft

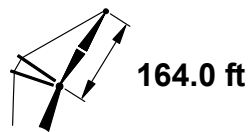
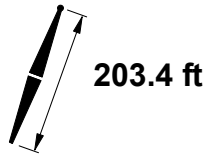
|     | 75°  |       |         |         | 70°  |       |        |         | 65°  |       |        |         |     |
|-----|------|-------|---------|---------|------|-------|--------|---------|------|-------|--------|---------|-----|
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb     | lb      | °    | ft    | lb     | lb      | ft  |
| 75  |      |       |         |         |      |       |        |         |      |       |        |         | 75  |
| 80  |      |       |         |         |      |       |        |         |      |       |        |         | 80  |
| 85  |      |       |         |         |      |       |        |         |      |       |        |         | 85  |
| 90  |      |       |         |         |      |       |        |         |      |       |        |         | 90  |
| 95  |      |       |         |         |      |       |        |         |      |       |        |         | 95  |
| 100 |      |       |         |         |      |       |        |         |      |       |        |         | 100 |
| 105 |      |       |         |         |      |       |        |         |      |       |        |         | 105 |
| 110 |      |       |         |         |      |       |        |         |      |       |        |         | 110 |
| 115 |      |       |         |         |      |       |        |         |      |       |        |         | 115 |
| 120 |      |       |         |         |      |       |        |         |      |       |        |         | 120 |
| 125 |      |       |         |         |      |       |        |         |      |       |        |         | 125 |
| 130 |      |       |         |         |      |       |        |         |      |       |        |         | 130 |
| 135 | 62.9 | 341.7 | 117,500 | 210,100 |      |       |        |         |      |       |        |         | 135 |
| 140 | 60.8 | 338.8 | 111,100 | 200,600 |      |       |        |         |      |       |        |         | 140 |
| 145 | 58.6 | 335.7 | 105,100 | 191,700 |      |       |        |         |      |       |        |         | 145 |
| 150 | 56.4 | 332.3 | 99,500  | 183,500 |      |       |        |         |      |       |        |         | 150 |
| 155 | 54.1 | 328.6 | 94,300  | 175,800 |      |       |        |         |      |       |        |         | 155 |
| 160 | 51.7 | 324.6 | 89,400  | 168,600 | 59.4 | 331.3 | 70,700 | 154,400 |      |       |        |         | 160 |
| 165 | 49.2 | 320.2 | 84,800  | 161,800 | 57.2 | 328.0 | 66,700 | 148,100 |      |       |        |         | 165 |
| 170 | 46.6 | 315.5 | 80,500  | 155,500 | 54.9 | 324.4 | 63,000 | 142,200 |      |       |        |         | 170 |
| 175 | 43.9 | 310.2 | 76,400  | 149,500 | 52.6 | 320.6 | 59,500 | 136,700 |      |       |        |         | 175 |
| 180 | 41.1 | 304.4 | 72,500  | 143,900 | 50.1 | 316.3 | 56,100 | 131,400 |      |       |        |         | 180 |
| 185 | 38.1 | 298.0 | 68,800  | 138,500 | 47.6 | 311.7 | 52,900 | 126,500 |      |       |        |         | 185 |
| 190 | 34.8 | 290.8 | 65,200  | 133,500 | 45.0 | 306.6 | 49,900 | 121,800 | 53.2 | 314.6 | 34,800 | 110,400 | 190 |
| 195 | 31.3 | 282.6 | 61,800  | 128,700 | 42.2 | 301.1 | 47,000 | 117,400 | 50.8 | 310.4 | 32,400 | 106,300 | 195 |
| 200 | 27.3 | 273.1 | 58,600  | 124,100 | 39.2 | 294.9 | 44,200 | 113,100 | 48.3 | 305.9 | 30,000 | 102,400 | 200 |
| 205 | 22.5 | 261.4 | 55,400  | 119,700 | 36.1 | 288.0 | 41,600 | 109,100 | 45.7 | 301.0 | 27,800 | 98,700  | 205 |
| 210 | 16.5 | 245.9 | 52,200  | 115,400 | 32.7 | 280.2 | 39,000 | 105,200 | 42.9 | 295.5 | 25,600 | 95,100  | 210 |
| 215 | 4.2  | 213.2 | 48,500  | 111,000 | 28.8 | 271.3 | 36,500 | 101,500 | 40.0 | 289.5 | 23,600 | 91,700  | 215 |
| 220 |      |       |         |         | 24.4 | 260.5 | 34,100 | 98,000  | 37.0 | 282.9 | 21,600 | 88,500  | 220 |
| 225 |      |       |         |         | 19.0 | 246.8 | 31,600 | 94,500  | 33.6 | 275.4 |        | 85,400  | 225 |
| 230 |      |       |         |         | 11.0 | 225.8 | 29,000 | 91,100  | 29.9 | 266.7 |        | 82,400  | 230 |
| 240 |      |       |         |         |      |       |        |         | 20.6 | 243.8 |        | 76,600  | 240 |

# MLC650 VPC-MAX S-1

ASME B30.5



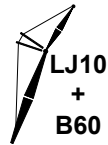
440,900 lb



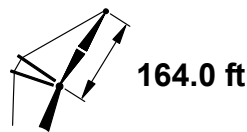
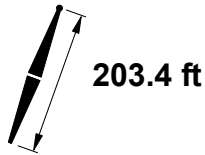
|     | 85°  |       |         |         | 83°  |       |         |         | 80°  |       |         |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|---------|---------|-----|
|     |      |       |         |         |      |       |         |         |      |       |         |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | ft  |
| 75  | 74.2 | 369.7 | 350,600 | 381,400 |      |       |         |         |      |       |         |         | 75  |
| 80  | 72.3 | 368.1 | 323,700 | 381,400 |      |       |         |         |      |       |         |         | 80  |
| 85  | 70.5 | 366.2 | 300,100 | 380,900 |      |       |         |         |      |       |         |         | 85  |
| 90  | 68.6 | 364.2 | 279,300 | 379,200 | 71.2 | 366.2 | 264,600 | 381,400 |      |       |         |         | 90  |
| 95  | 66.7 | 362.0 | 260,700 | 376,800 | 69.4 | 364.2 | 246,900 | 366,500 |      |       |         |         | 95  |
| 100 | 64.7 | 359.6 | 244,100 | 354,300 | 67.5 | 362.1 | 231,100 | 344,300 |      |       |         |         | 100 |
| 105 | 62.8 | 356.9 | 229,200 | 333,800 | 65.5 | 359.8 | 216,800 | 324,300 | 69.6 | 362.7 | 198,300 | 310,200 | 105 |
| 110 | 60.7 | 354.1 | 215,600 | 315,300 | 63.6 | 357.2 | 203,800 | 306,300 | 67.7 | 360.6 | 186,300 | 292,900 | 110 |
| 115 | 58.7 | 351.0 | 203,300 | 298,600 | 61.6 | 354.4 | 192,000 | 290,000 | 65.7 | 358.3 | 175,300 | 277,200 | 115 |
| 120 | 56.6 | 347.6 | 192,000 | 283,300 | 59.6 | 351.4 | 181,300 | 275,100 | 63.8 | 355.8 | 165,300 | 262,900 | 120 |
| 125 | 54.4 | 344.0 | 181,600 | 269,400 | 57.5 | 348.2 | 171,400 | 261,600 | 61.8 | 353.0 | 156,100 | 249,900 | 125 |
| 130 | 52.2 | 340.0 | 172,100 | 256,600 | 55.3 | 344.7 | 162,300 | 249,100 | 59.8 | 350.0 | 147,600 | 237,900 | 130 |
| 135 | 49.9 | 335.8 | 163,300 | 244,800 | 53.1 | 340.9 | 153,800 | 237,600 | 57.7 | 346.8 | 139,800 | 226,900 | 135 |
| 140 | 47.5 | 331.1 | 155,100 | 233,900 | 50.9 | 336.7 | 146,000 | 227,000 | 55.6 | 343.3 | 132,500 | 216,700 | 140 |
| 145 | 45.1 | 326.1 | 147,500 | 223,800 | 48.5 | 332.3 | 138,700 | 217,100 | 53.4 | 339.5 | 125,700 | 207,200 | 145 |
| 150 | 42.5 | 320.6 | 140,300 | 214,300 | 46.1 | 327.4 | 132,000 | 207,900 | 51.1 | 335.4 | 119,400 | 198,400 | 150 |
| 155 | 39.7 | 314.5 | 133,700 | 205,500 | 43.5 | 322.1 | 125,600 | 199,400 | 48.8 | 331.0 | 113,500 | 190,200 | 155 |
| 160 | 36.8 | 307.8 | 127,400 | 197,300 | 40.9 | 316.2 | 119,600 | 191,400 | 46.4 | 326.2 | 108,000 | 182,500 | 160 |
| 165 | 33.6 | 300.3 | 121,500 | 189,600 | 38.0 | 309.8 | 114,000 | 183,900 | 43.8 | 320.9 | 102,700 | 175,300 | 165 |
| 170 | 30.2 | 291.8 | 115,900 | 182,300 | 35.0 | 302.7 | 108,700 | 176,800 | 41.2 | 315.2 | 97,800  | 168,500 | 170 |
| 175 | 26.3 | 281.8 | 110,500 | 175,500 | 31.7 | 294.6 | 103,600 | 170,100 | 38.3 | 308.8 | 93,100  | 162,100 | 175 |
| 180 | 21.7 | 269.7 | 105,400 | 169,000 | 28.0 | 285.3 | 98,800  | 163,900 | 35.3 | 301.7 | 88,700  | 156,100 | 180 |
| 185 | 15.8 | 253.6 | 100,400 | 162,800 | 23.7 | 274.2 | 94,200  | 157,900 | 32.0 | 293.8 | 84,500  | 150,400 | 185 |
| 190 | 3.2  | 217.9 | 94,900  | 148,100 | 18.5 | 260.1 | 89,700  | 152,200 | 28.4 | 284.6 | 80,500  | 145,000 | 190 |
| 195 |      |       |         |         | 10.8 | 238.7 | 85,200  | 146,700 | 24.2 | 273.8 | 76,600  | 139,800 | 195 |
| 200 |      |       |         |         |      |       |         |         | 19.1 | 260.1 | 72,800  | 134,900 | 200 |
| 205 |      |       |         |         |      |       |         |         | 11.9 | 240.0 | 68,900  | 130,100 | 205 |
| 210 |      |       |         |         |      |       |         |         |      |       |         |         | 210 |
| 215 |      |       |         |         |      |       |         |         |      |       |         |         | 215 |
| 220 |      |       |         |         |      |       |         |         |      |       |         |         | 220 |
| 225 |      |       |         |         |      |       |         |         |      |       |         |         | 225 |
| 230 |      |       |         |         |      |       |         |         |      |       |         |         | 230 |
| 240 |      |       |         |         |      |       |         |         |      |       |         |         | 240 |
| 250 |      |       |         |         |      |       |         |         |      |       |         |         | 250 |

# MLC650 VPC-MAX S-1

ASME B30.5



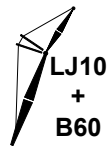
440,900 lb



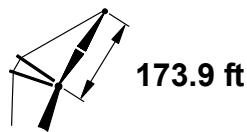
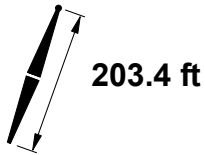
|     | 75°  |       |         |         | 70°  |       |        |         | 65°  |       |        |         |     |
|-----|------|-------|---------|---------|------|-------|--------|---------|------|-------|--------|---------|-----|
|     |      |       |         |         |      |       |        |         |      |       |        |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb     | lb      | °    | ft    | lb     | lb      | ft  |
| 75  |      |       |         |         |      |       |        |         |      |       |        |         | 75  |
| 80  |      |       |         |         |      |       |        |         |      |       |        |         | 80  |
| 85  |      |       |         |         |      |       |        |         |      |       |        |         | 85  |
| 90  |      |       |         |         |      |       |        |         |      |       |        |         | 90  |
| 95  |      |       |         |         |      |       |        |         |      |       |        |         | 95  |
| 100 |      |       |         |         |      |       |        |         |      |       |        |         | 100 |
| 105 |      |       |         |         |      |       |        |         |      |       |        |         | 105 |
| 110 |      |       |         |         |      |       |        |         |      |       |        |         | 110 |
| 115 |      |       |         |         |      |       |        |         |      |       |        |         | 115 |
| 120 |      |       |         |         |      |       |        |         |      |       |        |         | 120 |
| 125 |      |       |         |         |      |       |        |         |      |       |        |         | 125 |
| 130 |      |       |         |         |      |       |        |         |      |       |        |         | 130 |
| 135 | 64.7 | 352.8 | 116,600 | 209,200 |      |       |        |         |      |       |        |         | 135 |
| 140 | 62.7 | 350.2 | 110,200 | 199,700 |      |       |        |         |      |       |        |         | 140 |
| 145 | 60.7 | 347.3 | 104,300 | 190,900 |      |       |        |         |      |       |        |         | 145 |
| 150 | 58.7 | 344.2 | 98,700  | 182,700 |      |       |        |         |      |       |        |         | 150 |
| 155 | 56.6 | 340.8 | 93,500  | 175,000 |      |       |        |         |      |       |        |         | 155 |
| 160 | 54.4 | 337.2 | 88,700  | 167,800 |      |       |        |         |      |       |        |         | 160 |
| 165 | 52.2 | 333.3 | 84,100  | 161,100 | 59.4 | 339.8 | 65,800 | 147,300 |      |       |        |         | 165 |
| 170 | 49.9 | 329.0 | 79,800  | 154,800 | 57.4 | 336.5 | 62,100 | 141,400 |      |       |        |         | 170 |
| 175 | 47.5 | 324.3 | 75,700  | 148,900 | 55.2 | 333.0 | 58,600 | 135,900 |      |       |        |         | 175 |
| 180 | 45.0 | 319.3 | 71,900  | 143,300 | 53.0 | 329.2 | 55,300 | 130,700 |      |       |        |         | 180 |
| 185 | 42.4 | 313.8 | 68,200  | 138,000 | 50.8 | 325.0 | 52,100 | 125,800 |      |       |        |         | 185 |
| 190 | 39.7 | 307.7 | 64,700  | 133,000 | 48.4 | 320.5 | 49,100 | 121,100 |      |       |        |         | 190 |
| 195 | 36.7 | 301.0 | 61,400  | 128,200 | 46.0 | 315.6 | 46,300 | 116,700 | 53.6 | 323.1 | 31,400 | 105,500 | 195 |
| 200 | 33.6 | 293.5 | 58,200  | 123,700 | 43.4 | 310.3 | 43,500 | 112,500 | 51.4 | 319.1 | 29,100 | 101,600 | 200 |
| 205 | 30.1 | 284.9 | 55,200  | 119,300 | 40.7 | 304.4 | 40,900 | 108,500 | 49.0 | 314.7 | 26,900 | 97,900  | 205 |
| 210 | 26.2 | 274.9 | 52,200  | 115,200 | 37.9 | 298.0 | 38,400 | 104,700 | 46.6 | 309.9 | 24,800 | 94,400  | 210 |
| 215 | 21.6 | 262.8 | 49,300  | 111,200 | 34.8 | 290.8 | 36,000 | 101,100 | 44.1 | 304.7 | 22,800 | 91,100  | 215 |
| 220 | 15.7 | 246.6 | 46,400  | 107,400 | 31.5 | 282.6 | 33,700 | 97,600  | 41.4 | 299.0 | 20,900 | 87,800  | 220 |
| 225 |      |       |         |         | 27.8 | 273.3 | 31,400 | 94,200  | 38.6 | 292.7 |        | 84,800  | 225 |
| 230 |      |       |         |         | 23.5 | 262.1 | 29,200 | 91,000  | 35.6 | 285.7 |        | 81,800  | 230 |
| 240 |      |       |         |         | 10.2 | 225.5 | 24,600 | 84,700  | 28.8 | 268.9 |        | 76,200  | 240 |
| 250 |      |       |         |         |      |       |        |         | 19.7 | 245.0 |        | 71,000  | 250 |

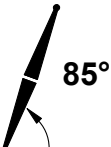
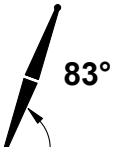
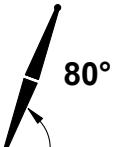
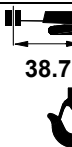
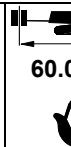
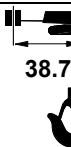
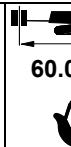
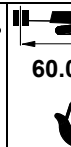
# MLC650 VPC-MAX S-1

ASME B30.5



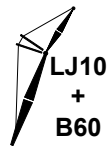
440,900 lb



|     |  85° |                                                                                     |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |  83° |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                      |  80° |                                                                                                                                                                                       |                                                                                                                                                                                       |                                                                                        |     |  |
|-----|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-----|--|
|     |  ft  |  ° |  ft |  38.7 ft<br> lb |  60.0 ft<br> lb |  °   |  ft |  38.7 ft<br> lb |  60.0 ft<br> lb |  ° |  ft  |  38.7 ft<br> lb |  60.0 ft<br> lb |  ft |     |  |
| 80  | 73.4                                                                                  | 378.5                                                                               | 321,200                                                                              | 354,100                                                                                                                                                                           |                                                                                                                                                                                   |                                                                                       |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                      |                                                                                         |                                                                                                                                                                                       |                                                                                                                                                                                       |                                                                                        | 80  |  |
| 85  | 71.6                                                                                  | 376.8                                                                               | 297,600                                                                              | 353,800                                                                                                                                                                           |                                                                                                                                                                                   |                                                                                       |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                      |                                                                                         |                                                                                                                                                                                       |                                                                                                                                                                                       |                                                                                        | 85  |  |
| 90  | 69.9                                                                                  | 374.9                                                                               | 276,800                                                                              | 352,900                                                                                                                                                                           | 72.3                                                                                                                                                                              | 376.6                                                                                 | 261,900                                                                              | 353,200                                                                                                                                                                           |                                                                                                                                                                                   |                                                                                      |                                                                                         |                                                                                                                                                                                       |                                                                                                                                                                                       |                                                                                        | 90  |  |
| 95  | 68.1                                                                                  | 372.8                                                                               | 258,300                                                                              | 351,200                                                                                                                                                                           | 70.6                                                                                                                                                                              | 374.8                                                                                 | 244,300                                                                              | 353,200                                                                                                                                                                           |                                                                                                                                                                                   |                                                                                      |                                                                                         |                                                                                                                                                                                       |                                                                                                                                                                                       |                                                                                        | 95  |  |
| 100 | 66.3                                                                                  | 370.5                                                                               | 241,700                                                                              | 349,200                                                                                                                                                                           | 68.8                                                                                                                                                                              | 372.8                                                                                 | 228,400                                                                              | 341,900                                                                                                                                                                           |                                                                                                                                                                                   |                                                                                      |                                                                                         |                                                                                                                                                                                       |                                                                                                                                                                                       |                                                                                        | 100 |  |
| 105 | 64.4                                                                                  | 368.1                                                                               | 226,800                                                                              | 331,600                                                                                                                                                                           | 67.0                                                                                                                                                                              | 370.6                                                                                 | 214,200                                                                              | 322,000                                                                                                                                                                           |                                                                                                                                                                                   |                                                                                      |                                                                                         |                                                                                                                                                                                       |                                                                                                                                                                                       |                                                                                        | 105 |  |
| 110 | 62.6                                                                                  | 365.4                                                                               | 213,300                                                                              | 313,200                                                                                                                                                                           | 65.2                                                                                                                                                                              | 368.3                                                                                 | 201,300                                                                              | 304,000                                                                                                                                                                           | 69.0                                                                                                                                                                              | 371.3                                                                                | 183,400                                                                                 | 290,400                                                                                                                                                                               |                                                                                                                                                                                       |                                                                                        | 110 |  |
| 115 | 60.7                                                                                  | 362.6                                                                               | 201,000                                                                              | 296,500                                                                                                                                                                           | 63.4                                                                                                                                                                              | 365.7                                                                                 | 189,500                                                                              | 287,800                                                                                                                                                                           | 67.2                                                                                                                                                                              | 369.1                                                                                | 172,500                                                                                 | 274,800                                                                                                                                                                               |                                                                                                                                                                                       |                                                                                        | 115 |  |
| 120 | 58.7                                                                                  | 359.5                                                                               | 189,700                                                                              | 281,300                                                                                                                                                                           | 61.5                                                                                                                                                                              | 362.9                                                                                 | 178,800                                                                              | 273,000                                                                                                                                                                           | 65.4                                                                                                                                                                              | 366.8                                                                                | 162,500                                                                                 | 260,600                                                                                                                                                                               |                                                                                                                                                                                       |                                                                                        | 120 |  |
| 125 | 56.8                                                                                  | 356.1                                                                               | 179,400                                                                              | 267,400                                                                                                                                                                           | 59.5                                                                                                                                                                              | 359.9                                                                                 | 168,900                                                                              | 259,400                                                                                                                                                                           | 63.6                                                                                                                                                                              | 364.2                                                                                | 153,400                                                                                 | 247,600                                                                                                                                                                               |                                                                                                                                                                                       |                                                                                        | 125 |  |
| 130 | 54.7                                                                                  | 352.5                                                                               | 169,900                                                                              | 254,600                                                                                                                                                                           | 57.6                                                                                                                                                                              | 356.7                                                                                 | 159,900                                                                              | 247,000                                                                                                                                                                           | 61.7                                                                                                                                                                              | 361.5                                                                                | 144,900                                                                                 | 235,700                                                                                                                                                                               |                                                                                                                                                                                       |                                                                                        | 130 |  |
| 135 | 52.6                                                                                  | 348.7                                                                               | 161,100                                                                              | 242,900                                                                                                                                                                           | 55.6                                                                                                                                                                              | 353.2                                                                                 | 151,500                                                                              | 235,500                                                                                                                                                                           | 59.8                                                                                                                                                                              | 358.5                                                                                | 137,100                                                                                 | 224,700                                                                                                                                                                               |                                                                                                                                                                                       |                                                                                        | 135 |  |
| 140 | 50.5                                                                                  | 344.5                                                                               | 152,900                                                                              | 232,000                                                                                                                                                                           | 53.5                                                                                                                                                                              | 349.4                                                                                 | 143,700                                                                              | 225,000                                                                                                                                                                           | 57.8                                                                                                                                                                              | 355.3                                                                                | 129,900                                                                                 | 214,500                                                                                                                                                                               |                                                                                                                                                                                       |                                                                                        | 140 |  |
| 145 | 48.3                                                                                  | 340.0                                                                               | 145,300                                                                              | 221,900                                                                                                                                                                           | 51.4                                                                                                                                                                              | 345.4                                                                                 | 136,400                                                                              | 215,100                                                                                                                                                                           | 55.8                                                                                                                                                                              | 351.8                                                                                | 123,200                                                                                 | 205,100                                                                                                                                                                               |                                                                                                                                                                                       |                                                                                        | 145 |  |
| 150 | 46.0                                                                                  | 335.1                                                                               | 138,200                                                                              | 212,500                                                                                                                                                                           | 49.2                                                                                                                                                                              | 341.0                                                                                 | 129,700                                                                              | 206,000                                                                                                                                                                           | 53.7                                                                                                                                                                              | 348.1                                                                                | 116,900                                                                                 | 196,300                                                                                                                                                                               |                                                                                                                                                                                       |                                                                                        | 150 |  |
| 155 | 43.6                                                                                  | 329.8                                                                               | 131,600                                                                              | 203,700                                                                                                                                                                           | 46.9                                                                                                                                                                              | 336.3                                                                                 | 123,300                                                                              | 197,500                                                                                                                                                                           | 51.6                                                                                                                                                                              | 344.1                                                                                | 111,000                                                                                 | 188,100                                                                                                                                                                               |                                                                                                                                                                                       |                                                                                        | 155 |  |
| 160 | 41.1                                                                                  | 324.0                                                                               | 125,300                                                                              | 195,600                                                                                                                                                                           | 44.6                                                                                                                                                                              | 331.2                                                                                 | 117,400                                                                              | 189,500                                                                                                                                                                           | 49.4                                                                                                                                                                              | 339.8                                                                                | 105,500                                                                                 | 180,400                                                                                                                                                                               |                                                                                                                                                                                       |                                                                                        | 160 |  |
| 165 | 38.4                                                                                  | 317.7                                                                               | 119,500                                                                              | 187,900                                                                                                                                                                           | 42.1                                                                                                                                                                              | 325.6                                                                                 | 111,800                                                                              | 182,000                                                                                                                                                                           | 47.2                                                                                                                                                                              | 335.1                                                                                | 100,300                                                                                 | 173,300                                                                                                                                                                               |                                                                                                                                                                                       |                                                                                        | 165 |  |
| 170 | 35.6                                                                                  | 310.7                                                                               | 113,900                                                                              | 180,700                                                                                                                                                                           | 39.5                                                                                                                                                                              | 319.5                                                                                 | 106,500                                                                              | 175,000                                                                                                                                                                           | 44.8                                                                                                                                                                              | 330.0                                                                                | 95,400                                                                                  | 166,500                                                                                                                                                                               |                                                                                                                                                                                       |                                                                                        | 170 |  |
| 175 | 32.5                                                                                  | 302.8                                                                               | 108,700                                                                              | 173,900                                                                                                                                                                           | 36.8                                                                                                                                                                              | 312.8                                                                                 | 101,500                                                                              | 168,400                                                                                                                                                                           | 42.4                                                                                                                                                                              | 324.5                                                                                | 90,800                                                                                  | 160,200                                                                                                                                                                               |                                                                                                                                                                                       |                                                                                        | 175 |  |
| 180 | 29.1                                                                                  | 293.9                                                                               | 103,700                                                                              | 167,400                                                                                                                                                                           | 33.8                                                                                                                                                                              | 305.3                                                                                 | 96,800                                                                               | 162,100                                                                                                                                                                           | 39.8                                                                                                                                                                              | 318.4                                                                                | 86,400                                                                                  | 154,200                                                                                                                                                                               |                                                                                                                                                                                       |                                                                                        | 180 |  |
| 185 | 25.4                                                                                  | 283.6                                                                               | 98,900                                                                               | 161,300                                                                                                                                                                           | 30.6                                                                                                                                                                              | 296.9                                                                                 | 92,300                                                                               | 156,200                                                                                                                                                                           | 37.1                                                                                                                                                                              | 311.8                                                                                | 82,300                                                                                  | 148,600                                                                                                                                                                               |                                                                                                                                                                                       |                                                                                        | 185 |  |
| 190 | 20.9                                                                                  | 271.0                                                                               | 94,300                                                                               | 155,600                                                                                                                                                                           | 27.0                                                                                                                                                                              | 287.2                                                                                 | 88,000                                                                               | 150,600                                                                                                                                                                           | 34.1                                                                                                                                                                              | 304.4                                                                                | 78,300                                                                                  | 143,200                                                                                                                                                                               |                                                                                                                                                                                       |                                                                                        | 190 |  |
| 195 | 15.1                                                                                  | 254.2                                                                               | 89,800                                                                               | 150,000                                                                                                                                                                           | 22.9                                                                                                                                                                              | 275.7                                                                                 | 83,800                                                                               | 145,300                                                                                                                                                                           | 30.9                                                                                                                                                                              | 296.1                                                                                | 74,500                                                                                  | 138,100                                                                                                                                                                               |                                                                                                                                                                                       |                                                                                        | 195 |  |
| 200 |                                                                                       |                                                                                     |                                                                                      |                                                                                                                                                                                   | 17.7                                                                                                                                                                              | 261.0                                                                                 | 79,800                                                                               | 140,200                                                                                                                                                                           | 27.4                                                                                                                                                                              | 286.6                                                                                | 70,900                                                                                  | 133,300                                                                                                                                                                               |                                                                                                                                                                                       |                                                                                        | 200 |  |
| 205 |                                                                                       |                                                                                     |                                                                                      |                                                                                                                                                                                   | 10.1                                                                                                                                                                              | 238.4                                                                                 | 75,600                                                                               | 135,200                                                                                                                                                                           | 23.3                                                                                                                                                                              | 275.3                                                                                | 67,400                                                                                  | 128,600                                                                                                                                                                               |                                                                                                                                                                                       |                                                                                        | 205 |  |
| 210 |                                                                                       |                                                                                     |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                      |                                                                                                                                                                                   | 18.4                                                                                                                                                                              | 261.1                                                                                | 63,900                                                                                  | 124,200                                                                                                                                                                               |                                                                                                                                                                                       |                                                                                        | 210 |  |
| 215 |                                                                                       |                                                                                     |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                      |                                                                                                                                                                                   | 11.2                                                                                                                                                                              | 240.0                                                                                | 60,400                                                                                  | 119,800                                                                                                                                                                               |                                                                                                                                                                                       |                                                                                        | 215 |  |
| 220 |                                                                                       |                                                                                     |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                      |                                                                                         |                                                                                                                                                                                       |                                                                                                                                                                                       |                                                                                        | 220 |  |
| 225 |                                                                                       |                                                                                     |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                      |                                                                                         |                                                                                                                                                                                       |                                                                                                                                                                                       |                                                                                        | 225 |  |
| 230 |                                                                                       |                                                                                     |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                      |                                                                                         |                                                                                                                                                                                       |                                                                                                                                                                                       |                                                                                        | 230 |  |
| 240 |                                                                                       |                                                                                     |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                      |                                                                                         |                                                                                                                                                                                       |                                                                                                                                                                                       |                                                                                        | 240 |  |
| 250 |                                                                                       |                                                                                     |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                      |                                                                                         |                                                                                                                                                                                       |                                                                                                                                                                                       |                                                                                        | 250 |  |
| 260 |                                                                                       |                                                                                     |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                      |                                                                                         |                                                                                                                                                                                       |                                                                                                                                                                                       |                                                                                        | 260 |  |

# MLC650 VPC-MAX S-1

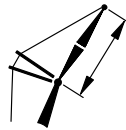
ASME B30.5



440,900 lb



203.4 ft

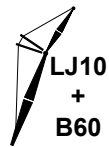


173.9 ft

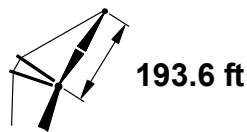
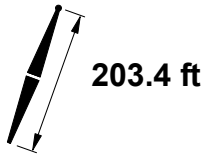
|     | 75°  |       |         |         | 70°  |       |        |         | 65°  |       |        |     |
|-----|------|-------|---------|---------|------|-------|--------|---------|------|-------|--------|-----|
|     | ft   | °     | ft      | lb      | lb   | ft    | lb     | lb      | ft   | °     | ft     | lb  |
| 80  |      |       |         |         |      |       |        |         |      |       |        | 80  |
| 85  |      |       |         |         |      |       |        |         |      |       |        | 85  |
| 90  |      |       |         |         |      |       |        |         |      |       |        | 90  |
| 95  |      |       |         |         |      |       |        |         |      |       |        | 95  |
| 100 |      |       |         |         |      |       |        |         |      |       |        | 100 |
| 105 |      |       |         |         |      |       |        |         |      |       |        | 105 |
| 110 |      |       |         |         |      |       |        |         |      |       |        | 110 |
| 115 |      |       |         |         |      |       |        |         |      |       |        | 115 |
| 120 |      |       |         |         |      |       |        |         |      |       |        | 120 |
| 125 |      |       |         |         |      |       |        |         |      |       |        | 125 |
| 130 |      |       |         |         |      |       |        |         |      |       |        | 130 |
| 135 |      |       |         |         |      |       |        |         |      |       |        | 135 |
| 140 | 64.4 | 361.3 | 107,200 | 197,300 |      |       |        |         |      |       |        | 140 |
| 145 | 62.5 | 358.7 | 101,300 | 188,500 |      |       |        |         |      |       |        | 145 |
| 150 | 60.6 | 355.8 | 95,800  | 180,300 |      |       |        |         |      |       |        | 150 |
| 155 | 58.7 | 352.7 | 90,700  | 172,700 |      |       |        |         |      |       |        | 155 |
| 160 | 56.7 | 349.3 | 85,800  | 165,600 |      |       |        |         |      |       |        | 160 |
| 165 | 54.7 | 345.7 | 81,300  | 158,900 |      |       |        |         |      |       |        | 165 |
| 170 | 52.6 | 341.9 | 77,000  | 152,600 | 59.4 | 348.3 | 59,000 | 139,000 |      |       |        | 170 |
| 175 | 50.5 | 337.7 | 73,000  | 146,700 | 57.5 | 345.0 | 55,500 | 133,500 |      |       |        | 175 |
| 180 | 48.2 | 333.2 | 69,200  | 141,100 | 55.5 | 341.5 | 52,200 | 128,300 |      |       |        | 180 |
| 185 | 45.9 | 328.3 | 65,600  | 135,900 | 53.4 | 337.8 | 49,100 | 123,400 |      |       |        | 185 |
| 190 | 43.5 | 323.0 | 62,100  | 130,900 | 51.3 | 333.7 | 46,200 | 118,800 |      |       |        | 190 |
| 195 | 41.0 | 317.2 | 58,900  | 126,200 | 49.1 | 329.3 | 43,400 | 114,400 |      |       |        | 195 |
| 200 | 38.4 | 310.8 | 55,700  | 121,700 | 46.8 | 324.5 | 40,700 | 110,300 | 54.0 | 331.7 | 99,200 | 200 |
| 205 | 35.5 | 303.8 | 52,800  | 117,400 | 44.5 | 319.4 | 38,100 | 106,300 | 51.9 | 327.7 | 95,500 | 205 |
| 210 | 32.5 | 296.0 | 49,900  | 113,300 | 42.0 | 313.8 | 35,700 | 102,600 | 49.7 | 323.4 | 92,100 | 210 |
| 215 | 29.1 | 287.1 | 47,100  | 109,400 | 39.4 | 307.7 | 33,300 | 99,000  | 47.4 | 318.8 | 88,700 | 215 |
| 220 | 25.3 | 276.7 | 44,400  | 105,700 | 36.6 | 300.9 | 31,100 | 95,500  | 45.1 | 313.7 | 85,600 | 220 |
| 225 | 20.8 | 264.0 | 41,800  | 102,100 | 33.6 | 293.4 | 28,900 | 92,200  | 42.7 | 308.3 | 82,500 | 225 |
| 230 | 15.0 | 247.1 | 39,100  | 98,500  | 30.4 | 284.9 | 26,800 | 89,000  | 40.1 | 302.3 | 79,600 | 230 |
| 240 |      |       |         |         | 22.6 | 263.5 | 22,700 | 83,000  | 34.5 | 288.4 | 74,100 | 240 |
| 250 |      |       |         |         | 9.5  | 225.1 |        | 77,200  | 27.8 | 270.9 | 69,000 | 250 |
| 260 |      |       |         |         |      |       |        |         | 19.0 | 246.0 | 64,200 | 260 |

# MLC650 VPC-MAX S-1

ASME B30.5



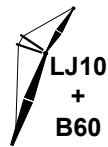
440,900 lb



|     | 85°  |       |         |         | 83°  |       |         |         | 80°  |       |         |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|---------|---------|-----|
|     |      |       |         |         |      |       |         |         |      |       |         |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | ft  |
| 85  | 73.6 | 397.5 | 294,400 | 304,600 |      |       |         |         |      |       |         |         | 85  |
| 90  | 72.0 | 395.9 | 273,700 | 304,300 |      |       |         |         |      |       |         |         | 90  |
| 95  | 70.4 | 394.0 | 255,200 | 303,500 | 72.7 | 395.7 | 240,800 | 302,400 |      |       |         |         | 95  |
| 100 | 68.8 | 392.0 | 238,600 | 302,500 | 71.1 | 393.9 | 225,000 | 302,400 |      |       |         |         | 100 |
| 105 | 67.2 | 389.9 | 223,700 | 301,200 | 69.5 | 392.0 | 210,800 | 302,400 |      |       |         |         | 105 |
| 110 | 65.6 | 387.6 | 210,200 | 299,700 | 67.9 | 389.9 | 198,000 | 300,800 |      |       |         |         | 110 |
| 115 | 63.9 | 385.1 | 198,000 | 293,500 | 66.3 | 387.7 | 186,200 | 284,600 | 69.7 | 390.5 | 168,800 | 271,400 | 115 |
| 120 | 62.3 | 382.4 | 186,700 | 278,400 | 64.6 | 385.3 | 175,600 | 269,900 | 68.1 | 388.4 | 158,900 | 257,300 | 120 |
| 125 | 60.6 | 379.5 | 176,500 | 264,600 | 63.0 | 382.7 | 165,700 | 256,500 | 66.4 | 386.2 | 149,800 | 244,400 | 125 |
| 130 | 58.8 | 376.4 | 167,000 | 251,900 | 61.3 | 379.9 | 156,700 | 244,100 | 64.8 | 383.8 | 141,400 | 232,500 | 130 |
| 135 | 57.0 | 373.1 | 158,200 | 240,200 | 59.5 | 376.9 | 148,300 | 232,700 | 63.1 | 381.2 | 133,600 | 221,600 | 135 |
| 140 | 55.2 | 369.6 | 150,100 | 229,400 | 57.8 | 373.7 | 140,600 | 222,200 | 61.4 | 378.4 | 126,400 | 211,500 | 140 |
| 145 | 53.4 | 365.8 | 142,500 | 219,300 | 56.0 | 370.2 | 133,400 | 212,400 | 59.7 | 375.5 | 119,800 | 202,100 | 145 |
| 150 | 51.5 | 361.8 | 135,500 | 210,000 | 54.2 | 366.6 | 126,700 | 203,300 | 58.0 | 372.3 | 113,500 | 193,400 | 150 |
| 155 | 49.5 | 357.5 | 128,900 | 201,300 | 52.3 | 362.7 | 120,400 | 194,900 | 56.2 | 368.9 | 107,700 | 185,300 | 155 |
| 160 | 47.5 | 352.9 | 122,700 | 193,200 | 50.3 | 358.5 | 114,500 | 186,900 | 54.4 | 365.2 | 102,200 | 177,700 | 160 |
| 165 | 45.4 | 347.9 | 116,900 | 185,500 | 48.3 | 354.0 | 109,000 | 179,500 | 52.5 | 361.3 | 97,100  | 170,600 | 165 |
| 170 | 43.3 | 342.5 | 111,400 | 178,400 | 46.3 | 349.1 | 103,800 | 172,600 | 50.6 | 357.2 | 92,300  | 163,900 | 170 |
| 175 | 41.0 | 336.7 | 106,300 | 171,600 | 44.2 | 343.9 | 98,800  | 166,000 | 48.6 | 352.7 | 87,700  | 157,600 | 175 |
| 180 | 38.6 | 330.4 | 101,400 | 165,300 | 41.9 | 338.3 | 94,200  | 159,800 | 46.5 | 347.9 | 83,400  | 151,600 | 180 |
| 185 | 36.1 | 323.6 | 96,700  | 159,300 | 39.6 | 332.3 | 89,800  | 154,000 | 44.4 | 342.8 | 79,300  | 146,000 | 185 |
| 190 | 33.4 | 316.0 | 92,300  | 153,600 | 37.2 | 325.6 | 85,600  | 148,400 | 42.2 | 337.2 | 75,500  | 140,700 | 190 |
| 195 | 30.5 | 307.6 | 88,100  | 148,200 | 34.5 | 318.4 | 81,600  | 143,200 | 39.9 | 331.2 | 71,800  | 135,700 | 195 |
| 200 | 27.3 | 298.0 | 84,100  | 143,000 | 31.7 | 310.3 | 77,800  | 138,200 | 37.4 | 324.6 | 68,200  | 130,900 | 200 |
| 205 | 23.7 | 286.9 | 80,200  | 138,100 | 28.7 | 301.3 | 74,100  | 133,400 | 34.8 | 317.4 | 64,900  | 126,400 | 205 |
| 210 | 19.4 | 273.3 | 76,400  | 133,400 | 25.3 | 290.8 | 70,600  | 128,900 | 32.0 | 309.5 | 61,700  | 122,100 | 210 |
| 215 | 13.8 | 255.0 | 72,700  | 128,900 | 21.3 | 278.4 | 67,200  | 124,500 | 29.0 | 300.5 | 58,600  | 117,900 | 215 |
| 220 |      |       |         |         | 16.4 | 262.6 | 63,800  | 120,300 | 25.6 | 290.3 | 55,600  | 114,000 | 220 |
| 225 |      |       |         |         | 8.8  | 237.5 | 60,300  | 116,200 | 21.8 | 278.2 | 52,600  | 110,100 | 225 |
| 230 |      |       |         |         |      |       |         |         | 17.0 | 262.8 | 49,700  | 106,400 | 230 |
| 240 |      |       |         |         |      |       |         |         |      |       |         |         | 240 |
| 250 |      |       |         |         |      |       |         |         |      |       |         |         | 250 |
| 260 |      |       |         |         |      |       |         |         |      |       |         |         | 260 |
| 270 |      |       |         |         |      |       |         |         |      |       |         |         | 270 |
| 280 |      |       |         |         |      |       |         |         |      |       |         |         | 280 |

# MLC650 VPC-MAX S-1

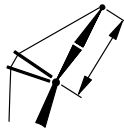
ASME B30.5



440,900 lb



203.4 ft

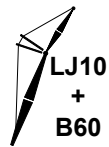


193.6 ft

|     | 75°  |       |        |         | 70°  |       |        |         | 65°  |       |        |     |
|-----|------|-------|--------|---------|------|-------|--------|---------|------|-------|--------|-----|
|     |      |       |        |         |      |       |        |         |      |       |        |     |
|     | ft   | °     | ft     | lb      | lb   | °     | ft     | lb      | lb   | °     | ft     | lb  |
| 85  |      |       |        |         |      |       |        |         |      |       |        | 85  |
| 90  |      |       |        |         |      |       |        |         |      |       |        | 90  |
| 95  |      |       |        |         |      |       |        |         |      |       |        | 95  |
| 100 |      |       |        |         |      |       |        |         |      |       |        | 100 |
| 105 |      |       |        |         |      |       |        |         |      |       |        | 105 |
| 110 |      |       |        |         |      |       |        |         |      |       |        | 110 |
| 115 |      |       |        |         |      |       |        |         |      |       |        | 115 |
| 120 |      |       |        |         |      |       |        |         |      |       |        | 120 |
| 125 |      |       |        |         |      |       |        |         |      |       |        | 125 |
| 130 |      |       |        |         |      |       |        |         |      |       |        | 130 |
| 135 |      |       |        |         |      |       |        |         |      |       |        | 135 |
| 140 |      |       |        |         |      |       |        |         |      |       |        | 140 |
| 145 |      |       |        |         |      |       |        |         |      |       |        | 145 |
| 150 | 63.9 | 378.3 | 91,900 | 177,000 |      |       |        |         |      |       |        | 150 |
| 155 | 62.2 | 375.6 | 86,800 | 169,500 |      |       |        |         |      |       |        | 155 |
| 160 | 60.5 | 372.7 | 82,000 | 162,400 |      |       |        |         |      |       |        | 160 |
| 165 | 58.8 | 369.7 | 77,600 | 155,800 |      |       |        |         |      |       |        | 165 |
| 170 | 57.0 | 366.4 | 73,400 | 149,600 |      |       |        |         |      |       |        | 170 |
| 175 | 55.2 | 362.8 | 69,400 | 143,700 |      |       |        |         |      |       |        | 175 |
| 180 | 53.3 | 359.1 | 65,600 | 138,200 | 59.4 | 365.2 | 48,200 | 125,100 |      |       |        | 180 |
| 185 | 51.4 | 355.0 | 62,100 | 133,000 | 57.7 | 362.0 | 45,100 | 120,200 |      |       |        | 185 |
| 190 | 49.5 | 350.7 | 58,700 | 128,100 | 55.9 | 358.6 | 42,300 | 115,700 |      |       |        | 190 |
| 195 | 47.5 | 346.1 | 55,500 | 123,400 | 54.1 | 354.9 | 39,500 | 111,400 |      |       |        | 195 |
| 200 | 45.4 | 341.1 | 52,400 | 119,000 | 52.2 | 351.0 | 36,900 | 107,200 |      |       |        | 200 |
| 205 | 43.2 | 335.7 | 49,500 | 114,800 | 50.2 | 346.7 | 34,400 | 103,300 |      |       |        | 205 |
| 210 | 40.9 | 329.9 | 46,700 | 110,700 | 48.2 | 342.2 | 32,000 | 99,600  | 54.5 | 348.8 | 88,800 | 210 |
| 215 | 38.6 | 323.6 | 44,100 | 106,900 | 46.2 | 337.4 | 29,700 | 96,100  | 52.7 | 345.0 | 85,600 | 215 |
| 220 | 36.1 | 316.7 | 41,500 | 103,200 | 44.0 | 332.2 | 27,600 | 92,700  | 50.8 | 340.8 | 82,400 | 220 |
| 225 | 33.4 | 309.1 | 39,000 | 99,700  | 41.8 | 326.5 | 25,500 | 89,500  | 48.8 | 336.4 | 79,500 | 225 |
| 230 | 30.5 | 300.7 | 36,600 | 96,400  | 39.5 | 320.4 | 23,400 | 86,400  | 46.7 | 331.6 | 76,600 | 230 |
| 240 | 23.6 | 279.9 | 32,100 | 90,000  | 34.4 | 306.5 |        | 80,500  | 42.4 | 321.0 | 71,200 | 240 |
| 250 | 13.7 | 247.9 | 27,600 | 84,000  | 28.5 | 289.3 |        | 75,100  | 37.7 | 308.6 | 66,300 | 250 |
| 260 |      |       |        |         | 21.1 | 266.2 |        | 70,100  | 32.4 | 293.6 | 61,700 | 260 |
| 270 |      |       |        |         | 8.2  | 224.0 |        | 65,100  | 26.0 | 274.7 | 57,400 | 270 |
| 280 |      |       |        |         |      |       |        |         | 17.6 | 247.9 | 53,200 | 280 |

# MLC650 VPC-MAX S-1

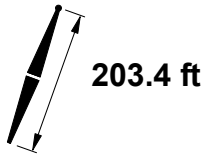
ASME B30.5



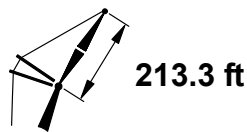
440,900 lb



360°



203.4 ft

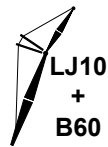


213.3 ft

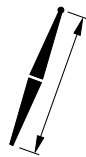
|     | 85°  |       |         |         | 83°  |       |         |         | 80°  |       |         |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|---------|---------|-----|
|     |      |       |         |         |      |       |         |         |      |       |         |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | ft  |
| 90  | 73.7 | 416.6 | 261,200 | 261,200 |      |       |         |         |      |       |         |         | 90  |
| 95  | 72.3 | 415.0 | 252,000 | 261,000 |      |       |         |         |      |       |         |         | 95  |
| 100 | 70.9 | 413.2 | 235,500 | 260,500 | 72.9 | 414.8 | 221,600 | 259,200 |      |       |         |         | 100 |
| 105 | 69.4 | 411.3 | 220,700 | 259,800 | 71.5 | 413.1 | 207,400 | 259,200 |      |       |         |         | 105 |
| 110 | 68.0 | 409.2 | 207,200 | 258,800 | 70.0 | 411.2 | 194,600 | 259,200 |      |       |         |         | 110 |
| 115 | 66.5 | 407.0 | 194,900 | 257,700 | 68.6 | 409.2 | 182,900 | 259,200 |      |       |         |         | 115 |
| 120 | 65.0 | 404.6 | 183,700 | 257,200 | 67.1 | 407.0 | 172,300 | 259,200 |      |       |         |         | 120 |
| 125 | 63.5 | 402.1 | 173,500 | 255,900 | 65.7 | 404.7 | 162,500 | 253,500 | 68.8 | 407.7 | 146,100 | 241,100 | 125 |
| 130 | 62.0 | 399.3 | 164,000 | 249,100 | 64.2 | 402.3 | 153,500 | 241,200 | 67.3 | 405.5 | 137,800 | 229,300 | 130 |
| 135 | 60.5 | 396.5 | 155,300 | 237,500 | 62.6 | 399.6 | 145,200 | 229,800 | 65.8 | 403.2 | 130,100 | 218,500 | 135 |
| 140 | 58.9 | 393.4 | 147,200 | 226,700 | 61.1 | 396.8 | 137,400 | 219,400 | 64.3 | 400.8 | 122,900 | 208,400 | 140 |
| 145 | 57.3 | 390.1 | 139,600 | 216,700 | 59.5 | 393.8 | 130,300 | 209,600 | 62.8 | 398.2 | 116,300 | 199,100 | 145 |
| 150 | 55.6 | 386.7 | 132,600 | 207,400 | 57.9 | 390.7 | 123,600 | 200,600 | 61.3 | 395.4 | 110,100 | 190,500 | 150 |
| 155 | 54.0 | 383.0 | 126,100 | 198,800 | 56.3 | 387.3 | 117,300 | 192,200 | 59.7 | 392.4 | 104,300 | 182,400 | 155 |
| 160 | 52.3 | 379.1 | 119,900 | 190,700 | 54.7 | 383.7 | 111,500 | 184,300 | 58.1 | 389.3 | 98,900  | 174,800 | 160 |
| 165 | 50.5 | 374.9 | 114,100 | 183,100 | 53.0 | 379.9 | 106,000 | 176,900 | 56.5 | 385.9 | 93,800  | 167,800 | 165 |
| 170 | 48.7 | 370.5 | 108,700 | 176,000 | 51.2 | 375.8 | 100,800 | 170,000 | 54.8 | 382.3 | 89,000  | 161,100 | 170 |
| 175 | 46.9 | 365.7 | 103,600 | 169,300 | 49.5 | 371.5 | 95,900  | 163,500 | 53.2 | 378.5 | 84,500  | 154,900 | 175 |
| 180 | 45.0 | 360.7 | 98,700  | 162,900 | 47.6 | 366.9 | 91,300  | 157,300 | 51.4 | 374.5 | 80,200  | 149,000 | 180 |
| 185 | 43.0 | 355.3 | 94,100  | 157,000 | 45.8 | 362.0 | 86,900  | 151,500 | 49.7 | 370.2 | 76,200  | 143,400 | 185 |
| 190 | 40.9 | 349.5 | 89,800  | 151,300 | 43.8 | 356.7 | 82,800  | 146,000 | 47.8 | 365.6 | 72,400  | 138,200 | 190 |
| 195 | 38.8 | 343.2 | 85,700  | 146,000 | 41.8 | 351.1 | 78,900  | 140,800 | 46.0 | 360.8 | 68,700  | 133,200 | 195 |
| 200 | 36.5 | 336.5 | 81,700  | 140,900 | 39.7 | 345.0 | 75,100  | 135,900 | 44.0 | 355.5 | 65,300  | 128,400 | 200 |
| 205 | 34.1 | 329.1 | 78,000  | 136,000 | 37.5 | 338.5 | 71,500  | 131,200 | 42.0 | 350.0 | 62,000  | 123,900 | 205 |
| 210 | 31.6 | 321.0 | 74,300  | 131,400 | 35.1 | 331.4 | 68,100  | 126,700 | 39.9 | 343.9 | 58,800  | 119,700 | 210 |
| 215 | 28.8 | 311.9 | 70,900  | 127,000 | 32.6 | 323.6 | 64,800  | 122,400 | 37.7 | 337.5 | 55,800  | 115,600 | 215 |
| 220 | 25.7 | 301.7 | 67,600  | 122,800 | 30.0 | 315.0 | 61,700  | 118,400 | 35.4 | 330.4 | 52,900  | 111,700 | 220 |
| 225 | 22.3 | 289.8 | 64,300  | 118,800 | 27.0 | 305.3 | 58,700  | 114,500 | 32.9 | 322.7 | 50,100  | 107,900 | 225 |
| 230 | 18.1 | 275.3 | 61,200  | 114,900 | 23.8 | 294.1 | 55,700  | 110,700 | 30.3 | 314.2 | 47,400  | 104,400 | 230 |
| 240 |      |       |         |         | 15.2 | 263.9 | 50,000  | 103,600 | 24.1 | 293.7 | 42,300  | 97,600  | 240 |
| 250 |      |       |         |         |      |       |         |         | 15.8 | 264.2 | 37,400  | 91,300  | 250 |
| 260 |      |       |         |         |      |       |         |         |      |       |         |         | 260 |
| 270 |      |       |         |         |      |       |         |         |      |       |         |         | 270 |
| 280 |      |       |         |         |      |       |         |         |      |       |         |         | 280 |
| 290 |      |       |         |         |      |       |         |         |      |       |         |         | 290 |
| 300 |      |       |         |         |      |       |         |         |      |       |         |         | 300 |

# MLC650 VPC-MAX S-1

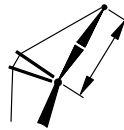
ASME B30.5



440,900 lb



203.4 ft

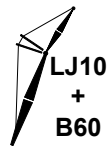


213.3 ft

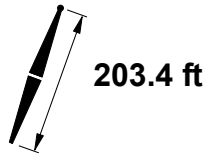
|     | 75°  |       |        |         | 70°  |       |        |         | 65°  |       |        |     |
|-----|------|-------|--------|---------|------|-------|--------|---------|------|-------|--------|-----|
|     |      |       |        |         |      |       |        |         |      |       |        |     |
|     | ft   | °     | ft     | lb      | lb   | °     | ft     | lb      | lb   | °     | ft     | lb  |
| 90  |      |       |        |         |      |       |        |         |      |       |        | 90  |
| 95  |      |       |        |         |      |       |        |         |      |       |        | 95  |
| 100 |      |       |        |         |      |       |        |         |      |       |        | 100 |
| 105 |      |       |        |         |      |       |        |         |      |       |        | 105 |
| 110 |      |       |        |         |      |       |        |         |      |       |        | 110 |
| 115 |      |       |        |         |      |       |        |         |      |       |        | 115 |
| 120 |      |       |        |         |      |       |        |         |      |       |        | 120 |
| 125 |      |       |        |         |      |       |        |         |      |       |        | 125 |
| 130 |      |       |        |         |      |       |        |         |      |       |        | 130 |
| 135 |      |       |        |         |      |       |        |         |      |       |        | 135 |
| 140 |      |       |        |         |      |       |        |         |      |       |        | 140 |
| 145 |      |       |        |         |      |       |        |         |      |       |        | 145 |
| 150 |      |       |        |         |      |       |        |         |      |       |        | 150 |
| 155 |      |       |        |         |      |       |        |         |      |       |        | 155 |
| 160 | 63.5 | 395.3 | 78,200 | 159,300 |      |       |        |         |      |       |        | 160 |
| 165 | 62.0 | 392.6 | 73,800 | 152,700 |      |       |        |         |      |       |        | 165 |
| 170 | 60.4 | 389.7 | 69,600 | 146,500 |      |       |        |         |      |       |        | 170 |
| 175 | 58.9 | 386.6 | 65,700 | 140,700 |      |       |        |         |      |       |        | 175 |
| 180 | 57.2 | 383.4 | 62,000 | 135,200 |      |       |        |         |      |       |        | 180 |
| 185 | 55.6 | 379.9 | 58,500 | 130,100 |      |       |        |         |      |       |        | 185 |
| 190 | 53.9 | 376.2 | 55,100 | 125,200 | 59.4 | 382.2 | 38,300 | 112,500 |      |       |        | 190 |
| 195 | 52.2 | 372.3 | 52,000 | 120,600 | 57.9 | 379.0 | 35,600 | 108,200 |      |       |        | 195 |
| 200 | 50.5 | 368.1 | 49,000 | 116,200 | 56.2 | 375.6 | 33,000 | 104,200 |      |       |        | 200 |
| 205 | 48.7 | 363.7 | 46,100 | 112,000 | 54.6 | 372.0 | 30,500 | 100,300 |      |       |        | 205 |
| 210 | 46.8 | 358.9 | 43,400 | 108,000 | 52.9 | 368.2 | 28,200 | 96,600  |      |       |        | 210 |
| 215 | 44.9 | 353.9 | 40,800 | 104,200 | 51.2 | 364.1 | 26,000 | 93,100  |      |       |        | 215 |
| 220 | 43.0 | 348.5 | 38,300 | 100,600 | 49.4 | 359.8 | 23,900 | 89,800  |      |       |        | 220 |
| 225 | 40.9 | 342.7 | 35,800 | 97,200  | 47.5 | 355.1 | 21,800 | 86,600  | 53.3 | 362.1 | 76,300 | 225 |
| 230 | 38.7 | 336.4 | 33,500 | 93,900  | 45.7 | 350.2 |        | 83,500  | 51.6 | 358.1 | 73,500 | 230 |
| 240 | 34.1 | 322.2 | 29,200 | 87,600  | 41.7 | 339.3 |        | 77,800  | 48.0 | 349.3 | 68,200 | 240 |
| 250 | 28.7 | 305.1 | 25,100 | 81,900  | 37.3 | 326.6 |        | 72,500  | 44.2 | 339.3 | 63,400 | 250 |
| 260 | 22.2 | 282.9 | 21,200 | 76,500  | 32.5 | 311.7 |        | 67,600  | 40.1 | 327.8 | 58,900 | 260 |
| 270 | 12.6 | 248.5 |        | 71,400  | 26.9 | 293.2 |        | 63,000  | 35.6 | 314.4 | 54,700 | 270 |
| 280 |      |       |        |         | 19.7 | 268.6 |        | 58,700  | 30.6 | 298.3 | 50,800 | 280 |
| 290 |      |       |        |         | 6.9  | 222.1 |        | 54,400  | 24.5 | 278.1 | 47,100 | 290 |
| 300 |      |       |        |         |      |       |        |         | 16.3 | 249.4 | 43,500 | 300 |

# MLC650 VPC-MAX S-1

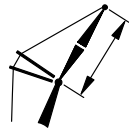
ASME B30.5



440,900 lb



203.4 ft



232.9 ft

|     | 85°  |       |         |         | 83°  |       |         |         | 80°  |       |         |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|---------|---------|-----|
|     |      |       |         |         |      |       |         |         |      |       |         |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | ft  |
| 95  | 73.9 | 435.7 | 224,700 | 224,700 |      |       |         |         |      |       |         |         | 95  |
| 100 | 72.6 | 434.0 | 224,400 | 224,400 |      |       |         |         |      |       |         |         | 100 |
| 105 | 71.3 | 432.3 | 218,500 | 224,000 |      |       |         |         |      |       |         |         | 105 |
| 110 | 70.0 | 430.4 | 205,100 | 223,500 | 71.8 | 432.2 | 192,300 | 222,600 |      |       |         |         | 110 |
| 115 | 68.6 | 428.4 | 192,900 | 222,700 | 70.5 | 430.4 | 180,600 | 222,600 |      |       |         |         | 115 |
| 120 | 67.3 | 426.3 | 181,700 | 221,900 | 69.2 | 428.4 | 170,000 | 222,600 |      |       |         |         | 120 |
| 125 | 65.9 | 424.0 | 171,400 | 221,000 | 67.8 | 426.3 | 160,200 | 222,600 |      |       |         |         | 125 |
| 130 | 64.6 | 421.6 | 162,000 | 219,900 | 66.5 | 424.1 | 151,300 | 222,300 | 69.3 | 426.9 | 135,300 | 216,300 | 130 |
| 135 | 63.2 | 419.0 | 153,300 | 218,700 | 65.1 | 421.8 | 143,000 | 221,900 | 68.0 | 424.8 | 127,600 | 216,200 | 135 |
| 140 | 61.8 | 416.3 | 145,200 | 217,500 | 63.8 | 419.3 | 135,300 | 217,300 | 66.6 | 422.6 | 120,500 | 206,200 | 140 |
| 145 | 60.4 | 413.4 | 137,700 | 211,900 | 62.4 | 416.6 | 128,100 | 207,600 | 65.3 | 420.3 | 113,900 | 196,900 | 145 |
| 150 | 58.9 | 410.4 | 130,700 | 205,500 | 61.0 | 413.8 | 121,500 | 198,600 | 63.9 | 417.8 | 107,700 | 188,300 | 150 |
| 155 | 57.5 | 407.1 | 124,100 | 196,900 | 59.5 | 410.8 | 115,200 | 190,200 | 62.5 | 415.1 | 101,900 | 180,300 | 155 |
| 160 | 56.0 | 403.7 | 118,000 | 188,900 | 58.1 | 407.6 | 109,400 | 182,400 | 61.1 | 412.3 | 96,600  | 172,800 | 160 |
| 165 | 54.5 | 400.1 | 112,300 | 181,300 | 56.6 | 404.3 | 103,900 | 175,100 | 59.7 | 409.4 | 91,500  | 165,700 | 165 |
| 170 | 52.9 | 396.3 | 106,900 | 174,200 | 55.1 | 400.7 | 98,800  | 168,200 | 58.2 | 406.2 | 86,700  | 159,100 | 170 |
| 175 | 51.3 | 392.2 | 101,800 | 167,600 | 53.6 | 397.0 | 93,900  | 161,700 | 56.8 | 402.9 | 82,200  | 152,900 | 175 |
| 180 | 49.7 | 387.9 | 96,900  | 161,300 | 52.0 | 393.1 | 89,300  | 155,600 | 55.3 | 399.4 | 78,000  | 147,100 | 180 |
| 185 | 48.0 | 383.4 | 92,400  | 155,300 | 50.4 | 388.9 | 85,000  | 149,800 | 53.7 | 395.7 | 74,000  | 141,500 | 185 |
| 190 | 46.3 | 378.6 | 88,100  | 149,700 | 48.7 | 384.4 | 80,900  | 144,300 | 52.2 | 391.8 | 70,200  | 136,300 | 190 |
| 195 | 44.6 | 373.5 | 84,000  | 144,400 | 47.1 | 379.8 | 77,000  | 139,200 | 50.6 | 387.6 | 66,600  | 131,400 | 195 |
| 200 | 42.8 | 368.0 | 80,100  | 139,400 | 45.3 | 374.8 | 73,300  | 134,300 | 48.9 | 383.2 | 63,200  | 126,700 | 200 |
| 205 | 40.9 | 362.2 | 76,400  | 134,600 | 43.5 | 369.5 | 69,800  | 129,600 | 47.2 | 378.5 | 59,900  | 122,200 | 205 |
| 210 | 38.9 | 356.0 | 72,800  | 130,000 | 41.7 | 363.8 | 66,400  | 125,100 | 45.5 | 373.6 | 56,800  | 117,900 | 210 |
| 215 | 36.9 | 349.3 | 69,400  | 125,600 | 39.7 | 357.8 | 63,200  | 120,900 | 43.7 | 368.3 | 53,800  | 113,900 | 215 |
| 220 | 34.7 | 342.1 | 66,200  | 121,500 | 37.7 | 351.3 | 60,100  | 116,900 | 41.9 | 362.7 | 51,000  | 110,000 | 220 |
| 225 | 32.4 | 334.2 | 63,000  | 117,500 | 35.6 | 344.3 | 57,100  | 113,000 | 40.0 | 356.7 | 48,200  | 106,300 | 225 |
| 230 | 30.0 | 325.6 | 60,000  | 113,700 | 33.4 | 336.7 | 54,300  | 109,300 | 37.9 | 350.3 | 45,600  | 102,800 | 230 |
| 240 | 24.4 | 305.2 | 54,300  | 106,500 | 28.4 | 319.3 | 48,900  | 102,400 | 33.6 | 335.8 | 40,700  | 96,100  | 240 |
| 250 | 17.0 | 277.1 | 48,900  | 99,800  | 22.5 | 297.2 | 43,800  | 95,900  | 28.7 | 318.6 | 36,100  | 90,000  | 250 |
| 260 |      |       |         |         | 14.1 | 264.9 | 38,900  | 89,900  | 22.8 | 296.8 | 31,700  | 84,300  | 260 |
| 270 |      |       |         |         |      |       |         |         | 14.7 | 265.4 | 27,500  | 78,900  | 270 |
| 280 |      |       |         |         |      |       |         |         |      |       |         |         | 280 |
| 290 |      |       |         |         |      |       |         |         |      |       |         |         | 290 |
| 300 |      |       |         |         |      |       |         |         |      |       |         |         | 300 |
| 310 |      |       |         |         |      |       |         |         |      |       |         |         | 310 |
| 320 |      |       |         |         |      |       |         |         |      |       |         |         | 320 |

# MLC650 VPC-MAX S-1

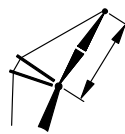
ASME B30.5



440,900 lb



203.4 ft

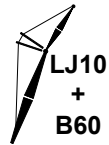


232.9 ft

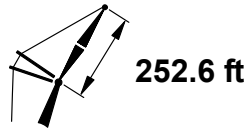
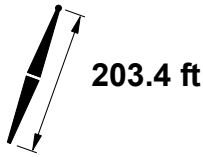
|     | 75°  |       |        |         | 70°  |       |         |      | 65°   |        |    |     |
|-----|------|-------|--------|---------|------|-------|---------|------|-------|--------|----|-----|
|     |      |       |        |         |      |       |         |      |       |        |    |     |
| ft  | °    | ft    | lb     | lb      | °    | ft    | lb      | lb   | °     | ft     | lb | ft  |
| 95  |      |       |        |         |      |       |         |      |       |        |    | 95  |
| 100 |      |       |        |         |      |       |         |      |       |        |    | 100 |
| 105 |      |       |        |         |      |       |         |      |       |        |    | 105 |
| 110 |      |       |        |         |      |       |         |      |       |        |    | 110 |
| 115 |      |       |        |         |      |       |         |      |       |        |    | 115 |
| 120 |      |       |        |         |      |       |         |      |       |        |    | 120 |
| 125 |      |       |        |         |      |       |         |      |       |        |    | 125 |
| 130 |      |       |        |         |      |       |         |      |       |        |    | 130 |
| 135 |      |       |        |         |      |       |         |      |       |        |    | 135 |
| 140 |      |       |        |         |      |       |         |      |       |        |    | 140 |
| 145 |      |       |        |         |      |       |         |      |       |        |    | 145 |
| 150 |      |       |        |         |      |       |         |      |       |        |    | 150 |
| 155 |      |       |        |         |      |       |         |      |       |        |    | 155 |
| 160 |      |       |        |         |      |       |         |      |       |        |    | 160 |
| 165 | 64.6 | 414.8 | 71,000 | 150,400 |      |       |         |      |       |        |    | 165 |
| 170 | 63.2 | 412.3 | 66,900 | 144,300 |      |       |         |      |       |        |    | 170 |
| 175 | 61.8 | 409.5 | 63,000 | 138,500 |      |       |         |      |       |        |    | 175 |
| 180 | 60.3 | 406.6 | 59,400 | 133,100 |      |       |         |      |       |        |    | 180 |
| 185 | 58.9 | 403.6 | 55,900 | 127,900 |      |       |         |      |       |        |    | 185 |
| 190 | 57.4 | 400.3 | 52,600 | 123,100 |      |       |         |      |       |        |    | 190 |
| 195 | 55.9 | 396.9 | 49,500 | 118,500 |      |       |         |      |       |        |    | 195 |
| 200 | 54.4 | 393.3 | 46,500 | 114,100 | 59.5 | 399.1 | 101,900 |      |       |        |    | 200 |
| 205 | 52.9 | 389.5 | 43,700 | 110,000 | 58.0 | 396.0 | 98,100  |      |       |        |    | 205 |
| 210 | 51.3 | 385.4 | 41,000 | 106,100 | 56.5 | 392.6 | 94,400  |      |       |        |    | 210 |
| 215 | 49.7 | 381.1 | 38,400 | 102,300 | 55.0 | 389.1 | 91,000  |      |       |        |    | 215 |
| 220 | 48.0 | 376.6 | 35,900 | 98,700  | 53.5 | 385.3 | 87,700  |      |       |        |    | 220 |
| 225 | 46.3 | 371.8 | 33,600 | 95,300  | 51.9 | 381.4 | 84,500  |      |       |        |    | 225 |
| 230 | 44.6 | 366.7 | 31,300 | 92,000  | 50.3 | 377.2 | 81,500  |      |       |        |    | 230 |
| 240 | 40.8 | 355.4 | 27,100 | 85,900  | 47.0 | 368.0 | 75,800  | 52.3 | 375.4 | 66,000 |    | 240 |
| 250 | 36.8 | 342.5 | 23,100 | 80,200  | 43.4 | 357.7 | 70,600  | 49.1 | 366.9 | 61,200 |    | 250 |
| 260 | 32.4 | 327.4 |        | 75,000  | 39.6 | 346.0 | 65,800  | 45.7 | 357.3 | 56,800 |    | 260 |
| 270 | 27.3 | 309.1 |        | 70,100  | 35.5 | 332.4 | 61,300  | 42.1 | 346.5 | 52,700 |    | 270 |
| 280 | 21.0 | 285.6 |        | 65,500  | 30.9 | 316.5 | 57,100  | 38.2 | 334.2 | 48,900 |    | 280 |
| 290 | 11.5 | 248.7 |        | 61,100  | 25.5 | 296.9 | 53,200  | 33.9 | 319.8 | 45,300 |    | 290 |
| 300 |      |       |        |         | 18.6 | 270.8 | 49,400  | 29.0 | 302.8 | 41,900 |    | 300 |
| 310 |      |       |        |         | 5.7  | 219.5 | 45,600  | 23.2 | 281.3 | 38,700 |    | 310 |
| 320 |      |       |        |         |      |       |         | 15.3 | 250.7 | 35,500 |    | 320 |

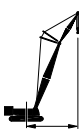
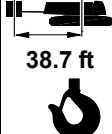
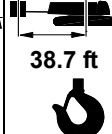
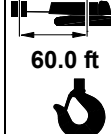
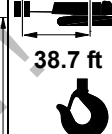
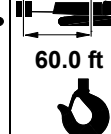
# MLC650 VPC-MAX S-1

ASME B30.5



440,900 lb



| <div>85°</div>    |                                                                                                    |                                                                                                     |                                                                                                                 |                                                                                                                 | <div>83°</div> |                                                                                                    |                                                                                                     |                                                                                                                 | <div>80°</div>               |      |                                                                                                     |                                                                                                       |                                                                                                                   |                                                                                                                   |                                                                                                       |     |
|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-----|
| <div><br/>ft</div> | <div><br/>°</div> | <div><br/>ft</div> | <div><br/>38.7 ft<br/>lb</div> | <div><br/>60.0 ft<br/>lb</div> |                                                                                                 | <div><br/>°</div> | <div><br/>ft</div> | <div><br/>38.7 ft<br/>lb</div> | <div><br/>60.0 ft<br/>lb</div> |      | <div><br/>°</div> | <div><br/>ft</div> | <div><br/>38.7 ft<br/>lb</div> | <div><br/>60.0 ft<br/>lb</div> | <div><br/>ft</div> |     |
| 100                                                                                                | 74.0                                                                                               | 454.7                                                                                               | 191,900                                                                                                         | 191,900                                                                                                         |                                                                                                 |                                                                                                    |                                                                                                     |                                                                                                                 |                                                                                                                 |      |                                                                                                     |                                                                                                       |                                                                                                                   |                                                                                                                   |                                                                                                       | 100 |
| 105                                                                                                | 72.8                                                                                               | 453.1                                                                                               | 191,500                                                                                                         | 191,500                                                                                                         |                                                                                                 |                                                                                                    |                                                                                                     |                                                                                                                 |                                                                                                                 |      |                                                                                                     |                                                                                                       |                                                                                                                   |                                                                                                                   |                                                                                                       | 105 |
| 110                                                                                                | 71.6                                                                                               | 451.4                                                                                               | 191,200                                                                                                         | 191,200                                                                                                         |                                                                                                 |                                                                                                    |                                                                                                     |                                                                                                                 |                                                                                                                 |      |                                                                                                     |                                                                                                       |                                                                                                                   |                                                                                                                   |                                                                                                       | 110 |
| 115                                                                                                | 70.4                                                                                               | 449.6                                                                                               | 189,400                                                                                                         | 190,700                                                                                                         | 72.1                                                                                            | 451.3                                                                                              | 176,900                                                                                             | 189,700                                                                                                         |                                                                                                                 |      |                                                                                                     |                                                                                                       |                                                                                                                   |                                                                                                                   |                                                                                                       | 115 |
| 120                                                                                                | 69.2                                                                                               | 447.6                                                                                               | 178,200                                                                                                         | 190,100                                                                                                         | 70.9                                                                                            | 449.5                                                                                              | 166,300                                                                                             | 189,700                                                                                                         |                                                                                                                 |      |                                                                                                     |                                                                                                       |                                                                                                                   |                                                                                                                   |                                                                                                       | 120 |
| 125                                                                                                | 67.9                                                                                               | 445.6                                                                                               | 168,000                                                                                                         | 189,400                                                                                                         | 69.7                                                                                            | 447.6                                                                                              | 156,600                                                                                             | 189,600                                                                                                         |                                                                                                                 |      |                                                                                                     |                                                                                                       |                                                                                                                   |                                                                                                                   |                                                                                                       | 125 |
| 130                                                                                                | 66.7                                                                                               | 443.4                                                                                               | 158,600                                                                                                         | 188,600                                                                                                         | 68.4                                                                                            | 445.6                                                                                              | 147,600                                                                                             | 189,400                                                                                                         |                                                                                                                 |      |                                                                                                     |                                                                                                       |                                                                                                                   |                                                                                                                   |                                                                                                       | 130 |
| 135                                                                                                | 65.4                                                                                               | 441.1                                                                                               | 149,900                                                                                                         | 187,800                                                                                                         | 67.2                                                                                            | 443.5                                                                                              | 139,400                                                                                             | 189,100                                                                                                         |                                                                                                                 | 69.8 | 446.1                                                                                               | 123,700                                                                                               | 183,700                                                                                                           |                                                                                                                   |                                                                                                       | 135 |
| 140                                                                                                | 64.2                                                                                               | 438.6                                                                                               | 141,800                                                                                                         | 186,900                                                                                                         | 66.0                                                                                            | 441.2                                                                                              | 131,700                                                                                             | 188,700                                                                                                         |                                                                                                                 | 68.6 | 444.1                                                                                               | 116,600                                                                                               | 183,700                                                                                                           |                                                                                                                   |                                                                                                       | 140 |
| 145                                                                                                | 62.9                                                                                               | 436.0                                                                                               | 134,300                                                                                                         | 185,900                                                                                                         | 64.7                                                                                            | 438.8                                                                                              | 124,600                                                                                             | 188,200                                                                                                         |                                                                                                                 | 67.3 | 441.9                                                                                               | 110,000                                                                                               | 183,700                                                                                                           |                                                                                                                   |                                                                                                       | 145 |
| 150                                                                                                | 61.6                                                                                               | 433.3                                                                                               | 127,400                                                                                                         | 184,900                                                                                                         | 63.4                                                                                            | 436.2                                                                                              | 117,900                                                                                             | 187,700                                                                                                         |                                                                                                                 | 66.1 | 439.7                                                                                               | 103,900                                                                                               | 183,700                                                                                                           |                                                                                                                   |                                                                                                       | 150 |
| 155                                                                                                | 60.3                                                                                               | 430.4                                                                                               | 120,800                                                                                                         | 183,900                                                                                                         | 62.1                                                                                            | 433.6                                                                                              | 111,700                                                                                             | 187,200                                                                                                         |                                                                                                                 | 64.8 | 437.3                                                                                               | 98,200                                                                                                | 177,100                                                                                                           |                                                                                                                   |                                                                                                       | 155 |
| 160                                                                                                | 59.0                                                                                               | 427.3                                                                                               | 114,700                                                                                                         | 180,000                                                                                                         | 60.8                                                                                            | 430.7                                                                                              | 105,900                                                                                             | 179,500                                                                                                         |                                                                                                                 | 63.6 | 434.8                                                                                               | 92,800                                                                                                | 169,600                                                                                                           |                                                                                                                   |                                                                                                       | 160 |
| 165                                                                                                | 57.6                                                                                               | 424.1                                                                                               | 109,000                                                                                                         | 174,900                                                                                                         | 59.5                                                                                            | 427.7                                                                                              | 100,500                                                                                             | 172,200                                                                                                         |                                                                                                                 | 62.3 | 432.1                                                                                               | 87,800                                                                                                | 162,700                                                                                                           |                                                                                                                   |                                                                                                       | 165 |
| 170                                                                                                | 56.3                                                                                               | 420.7                                                                                               | 103,600                                                                                                         | 169,700                                                                                                         | 58.2                                                                                            | 424.6                                                                                              | 95,300                                                                                              | 165,300                                                                                                         |                                                                                                                 | 61.0 | 429.3                                                                                               | 83,000                                                                                                | 156,100                                                                                                           |                                                                                                                   |                                                                                                       | 170 |
| 175                                                                                                | 54.9                                                                                               | 417.2                                                                                               | 98,500                                                                                                          | 164,600                                                                                                         | 56.8                                                                                            | 421.3                                                                                              | 90,500                                                                                              | 158,900                                                                                                         |                                                                                                                 | 59.7 | 426.3                                                                                               | 78,600                                                                                                | 149,900                                                                                                           |                                                                                                                   |                                                                                                       | 175 |
| 180                                                                                                | 53.4                                                                                               | 413.4                                                                                               | 93,700                                                                                                          | 158,600                                                                                                         | 55.4                                                                                            | 417.8                                                                                              | 86,000                                                                                              | 152,800                                                                                                         |                                                                                                                 | 58.3 | 423.2                                                                                               | 74,400                                                                                                | 144,100                                                                                                           |                                                                                                                   |                                                                                                       | 180 |
| 185                                                                                                | 52.0                                                                                               | 409.5                                                                                               | 89,200                                                                                                          | 152,700                                                                                                         | 54.0                                                                                            | 414.1                                                                                              | 81,700                                                                                              | 147,000                                                                                                         |                                                                                                                 | 57.0 | 419.9                                                                                               | 70,400                                                                                                | 138,600                                                                                                           |                                                                                                                   |                                                                                                       | 185 |
| 190                                                                                                | 50.5                                                                                               | 405.3                                                                                               | 84,900                                                                                                          | 147,100                                                                                                         | 52.6                                                                                            | 410.3                                                                                              | 77,600                                                                                              | 141,600                                                                                                         |                                                                                                                 | 55.6 | 416.4                                                                                               | 66,600                                                                                                | 133,400                                                                                                           |                                                                                                                   |                                                                                                       | 190 |
| 195                                                                                                | 49.0                                                                                               | 400.9                                                                                               | 80,800                                                                                                          | 141,800                                                                                                         | 51.1                                                                                            | 406.2                                                                                              | 73,700                                                                                              | 136,500                                                                                                         |                                                                                                                 | 54.2 | 412.8                                                                                               | 63,100                                                                                                | 128,500                                                                                                           |                                                                                                                   |                                                                                                       | 195 |
| 200                                                                                                | 47.5                                                                                               | 396.3                                                                                               | 77,000                                                                                                          | 136,800                                                                                                         | 49.6                                                                                            | 401.9                                                                                              | 70,000                                                                                              | 131,600                                                                                                         |                                                                                                                 | 52.8 | 409.0                                                                                               | 59,700                                                                                                | 123,800                                                                                                           |                                                                                                                   |                                                                                                       | 200 |
| 205                                                                                                | 45.9                                                                                               | 391.4                                                                                               | 73,300                                                                                                          | 132,000                                                                                                         | 48.1                                                                                            | 397.4                                                                                              | 66,500                                                                                              | 126,900                                                                                                         |                                                                                                                 | 51.3 | 404.9                                                                                               | 56,400                                                                                                | 119,400                                                                                                           |                                                                                                                   |                                                                                                       | 205 |
| 210                                                                                                | 44.3                                                                                               | 386.3                                                                                               | 69,800                                                                                                          | 127,500                                                                                                         | 46.6                                                                                            | 392.6                                                                                              | 63,200                                                                                              | 122,500                                                                                                         |                                                                                                                 | 49.8 | 400.6                                                                                               | 53,300                                                                                                | 115,100                                                                                                           |                                                                                                                   |                                                                                                       | 210 |
| 215                                                                                                | 42.6                                                                                               | 380.8                                                                                               | 66,400                                                                                                          | 123,100                                                                                                         | 44.9                                                                                            | 387.6                                                                                              | 60,000                                                                                              | 118,300                                                                                                         |                                                                                                                 | 48.3 | 396.1                                                                                               | 50,400                                                                                                | 111,100                                                                                                           |                                                                                                                   |                                                                                                       | 215 |
| 220                                                                                                | 40.8                                                                                               | 375.0                                                                                               | 63,200                                                                                                          | 119,000                                                                                                         | 43.3                                                                                            | 382.2                                                                                              | 56,900                                                                                              | 114,300                                                                                                         |                                                                                                                 | 46.7 | 391.4                                                                                               | 47,600                                                                                                | 107,300                                                                                                           |                                                                                                                   |                                                                                                       | 220 |
| 225                                                                                                | 39.0                                                                                               | 368.8                                                                                               | 60,100                                                                                                          | 115,100                                                                                                         | 41.6                                                                                            | 376.6                                                                                              | 54,000                                                                                              | 110,500                                                                                                         |                                                                                                                 | 45.1 | 386.4                                                                                               | 44,900                                                                                                | 103,600                                                                                                           |                                                                                                                   |                                                                                                       | 225 |
| 230                                                                                                | 37.2                                                                                               | 362.2                                                                                               | 57,200                                                                                                          | 111,300                                                                                                         | 39.8                                                                                            | 370.5                                                                                              | 51,200                                                                                              | 106,800                                                                                                         |                                                                                                                 | 43.5 | 381.1                                                                                               | 42,300                                                                                                | 100,100                                                                                                           |                                                                                                                   |                                                                                                       | 230 |
| 240                                                                                                | 33.1                                                                                               | 347.4                                                                                               | 51,600                                                                                                          | 104,200                                                                                                         | 36.0                                                                                            | 357.2                                                                                              | 45,900                                                                                              | 99,900                                                                                                          |                                                                                                                 | 40.0 | 369.5                                                                                               | 37,500                                                                                                | 93,500                                                                                                            |                                                                                                                   |                                                                                                       | 240 |
| 250                                                                                                | 28.5                                                                                               | 330.0                                                                                               | 46,500                                                                                                          | 97,700                                                                                                          | 31.8                                                                                            | 341.8                                                                                              | 41,100                                                                                              | 93,600                                                                                                          |                                                                                                                 | 36.2 | 356.2                                                                                               | 33,000                                                                                                | 87,500                                                                                                            |                                                                                                                   |                                                                                                       | 250 |
| 260                                                                                                | 23.1                                                                                               | 308.4                                                                                               | 41,600                                                                                                          | 91,600                                                                                                          | 27.1                                                                                            | 323.3                                                                                              | 36,500                                                                                              | 87,700                                                                                                          |                                                                                                                 | 32.1 | 340.9                                                                                               | 28,800                                                                                                | 81,900                                                                                                            |                                                                                                                   |                                                                                                       | 260 |
| 270                                                                                                | 16.0                                                                                               | 278.6                                                                                               | 36,900                                                                                                          | 85,900                                                                                                          | 21.3                                                                                            | 300.0                                                                                              | 32,100                                                                                              | 82,200                                                                                                          |                                                                                                                 | 27.4 | 322.6                                                                                               | 24,800                                                                                                | 76,700                                                                                                            |                                                                                                                   |                                                                                                       | 270 |
| 280                                                                                                |                                                                                                    |                                                                                                     |                                                                                                                 |                                                                                                                 | 13.2                                                                                            | 265.6                                                                                              | 27,900                                                                                              | 77,000                                                                                                          |                                                                                                                 | 21.7 | 299.6                                                                                               | 21,100                                                                                                | 71,800                                                                                                            |                                                                                                                   |                                                                                                       | 280 |
| 290                                                                                                |                                                                                                    |                                                                                                     |                                                                                                                 |                                                                                                                 |                                                                                                 |                                                                                                    |                                                                                                     |                                                                                                                 |                                                                                                                 | 13.8 | 266.3                                                                                               |                                                                                                       | 67,200                                                                                                            |                                                                                                                   |                                                                                                       | 290 |
| 300                                                                                                |                                                                                                    |                                                                                                     |                                                                                                                 |                                                                                                                 |                                                                                                 |                                                                                                    |                                                                                                     |                                                                                                                 |                                                                                                                 |      |                                                                                                     |                                                                                                       |                                                                                                                   |                                                                                                                   |                                                                                                       | 300 |
| 310                                                                                                |                                                                                                    |                                                                                                     |                                                                                                                 |                                                                                                                 |                                                                                                 |                                                                                                    |                                                                                                     |                                                                                                                 |                                                                                                                 |      |                                                                                                     |                                                                                                       |                                                                                                                   |                                                                                                                   |                                                                                                       | 310 |
| 320                                                                                                |                                                                                                    |                                                                                                     |                                                                                                                 |                                                                                                                 |                                                                                                 |                                                                                                    |                                                                                                     |                                                                                                                 |                                                                                                                 |      |                                                                                                     |                                                                                                       |                                                                                                                   |                                                                                                                   |                                                                                                       | 320 |
| 330                                                                                                |                                                                                                    |                                                                                                     |                                                                                                                 |                                                                                                                 |                                                                                                 |                                                                                                    |                                                                                                     |                                                                                                                 |                                                                                                                 |      |                                                                                                     |                                                                                                       |                                                                                                                   |                                                                                                                   |                                                                                                       | 330 |
| 340                                                                                                |                                                                                                    |                                                                                                     |                                                                                                                 |                                                                                                                 |                                                                                                 |                                                                                                    |                                                                                                     |                                                                                                                 |                                                                                                                 |      |                                                                                                     |                                                                                                       |                                                                                                                   |                                                                                                                   |                                                                                                       | 340 |

# MLC650 VPC-MAX S-1

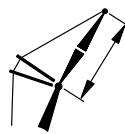
ASME B30.5



440,900 lb



203.4 ft



252.6 ft

|     | 75°  |       |        |         | 70°  |       |        |      | 65°   |        |    |     |
|-----|------|-------|--------|---------|------|-------|--------|------|-------|--------|----|-----|
|     |      |       |        |         |      |       |        |      |       |        |    |     |
| ft  | °    | ft    | lb     | lb      | °    | ft    | lb     | °    | ft    | lb     | ft | ft  |
| 100 |      |       |        |         |      |       |        |      |       |        |    | 100 |
| 105 |      |       |        |         |      |       |        |      |       |        |    | 105 |
| 110 |      |       |        |         |      |       |        |      |       |        |    | 110 |
| 115 |      |       |        |         |      |       |        |      |       |        |    | 115 |
| 120 |      |       |        |         |      |       |        |      |       |        |    | 120 |
| 125 |      |       |        |         |      |       |        |      |       |        |    | 125 |
| 130 |      |       |        |         |      |       |        |      |       |        |    | 130 |
| 135 |      |       |        |         |      |       |        |      |       |        |    | 135 |
| 140 |      |       |        |         |      |       |        |      |       |        |    | 140 |
| 145 |      |       |        |         |      |       |        |      |       |        |    | 145 |
| 150 |      |       |        |         |      |       |        |      |       |        |    | 150 |
| 155 |      |       |        |         |      |       |        |      |       |        |    | 155 |
| 160 |      |       |        |         |      |       |        |      |       |        |    | 160 |
| 165 |      |       |        |         |      |       |        |      |       |        |    | 165 |
| 170 |      |       |        |         |      |       |        |      |       |        |    | 170 |
| 175 | 64.2 | 431.8 | 59,000 | 135,200 |      |       |        |      |       |        |    | 175 |
| 180 | 62.9 | 429.2 | 55,300 | 129,800 |      |       |        |      |       |        |    | 180 |
| 185 | 61.6 | 426.5 | 51,900 | 124,700 |      |       |        |      |       |        |    | 185 |
| 190 | 60.3 | 423.6 | 48,600 | 119,900 |      |       |        |      |       |        |    | 190 |
| 195 | 58.9 | 420.5 | 45,500 | 115,400 |      |       |        |      |       |        |    | 195 |
| 200 | 57.6 | 417.3 | 42,600 | 111,000 |      |       |        |      |       |        |    | 200 |
| 205 | 56.2 | 413.9 | 39,800 | 106,900 |      |       |        |      |       |        |    | 205 |
| 210 | 54.8 | 410.4 | 37,100 | 103,000 | 59.5 | 416.1 | 91,200 |      |       |        |    | 210 |
| 215 | 53.4 | 406.6 | 34,600 | 99,300  | 58.1 | 412.9 | 87,700 |      |       |        |    | 215 |
| 220 | 52.0 | 402.7 | 32,200 | 95,700  | 56.8 | 409.6 | 84,500 |      |       |        |    | 220 |
| 225 | 50.5 | 398.5 | 29,900 | 92,300  | 55.4 | 406.1 | 81,300 |      |       |        |    | 225 |
| 230 | 49.0 | 394.1 | 27,600 | 89,100  | 54.0 | 402.4 | 78,300 |      |       |        |    | 230 |
| 240 | 45.9 | 384.6 | 23,400 | 83,000  | 51.1 | 394.5 | 72,700 |      |       |        |    | 240 |
| 250 | 42.5 | 374.0 |        | 77,400  | 48.0 | 385.7 | 67,600 | 52.9 | 392.6 | 58,000 |    | 250 |
| 260 | 39.0 | 361.9 |        | 72,300  | 44.9 | 375.8 | 62,800 | 50.0 | 384.3 | 53,600 |    | 260 |
| 270 | 35.2 | 348.2 |        | 67,500  | 41.5 | 364.8 | 58,400 | 46.9 | 375.1 | 49,600 |    | 270 |
| 280 | 30.9 | 332.2 |        | 63,000  | 37.8 | 352.3 | 54,300 | 43.6 | 364.8 | 45,800 |    | 280 |
| 290 | 25.9 | 312.9 |        | 58,800  | 33.9 | 337.9 | 50,400 | 40.2 | 353.3 | 42,300 |    | 290 |
| 300 | 19.9 | 288.0 |        | 54,800  | 29.4 | 321.0 | 46,800 | 36.4 | 340.2 | 39,000 |    | 300 |
| 310 | 10.6 | 248.6 |        | 50,900  | 24.2 | 300.3 | 43,400 | 32.3 | 325.0 | 35,900 |    | 310 |
| 320 |      |       |        |         | 17.5 | 272.7 | 40,100 | 27.6 | 306.9 | 33,000 |    | 320 |
| 330 |      |       |        |         | 4.4  | 215.6 | 36,700 | 22.0 | 284.2 | 30,100 |    | 330 |
| 340 |      |       |        |         |      |       |        | 14.3 | 251.8 | 27,400 |    | 340 |

# MLC650 VPC-MAX S-1

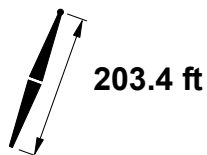
ASME B30.5



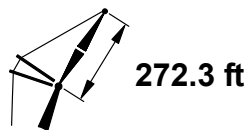
440,900 lb



360°



203.4 ft



272.3 ft

|     | 85°  |       |         |         | 83°  |       |         |         | 80°  |       |         |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|---------|---------|-----|
|     |      |       |         |         |      |       |         |         |      |       |         |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | ft  |
| 105 | 74.1 | 473.8 | 166,600 | 166,600 |      |       |         |         |      |       |         |         | 105 |
| 110 | 73.0 | 472.2 | 165,900 | 165,900 |      |       |         |         |      |       |         |         | 110 |
| 115 | 71.9 | 470.5 | 165,500 | 165,500 |      |       |         |         |      |       |         |         | 115 |
| 120 | 70.7 | 468.7 | 165,000 | 165,000 | 72.3 | 470.4 | 163,800 | 164,300 |      |       |         |         | 120 |
| 125 | 69.6 | 466.8 | 164,400 | 164,400 | 71.2 | 468.6 | 154,100 | 164,200 |      |       |         |         | 125 |
| 130 | 68.5 | 464.8 | 156,400 | 163,800 | 70.1 | 466.8 | 145,200 | 164,000 |      |       |         |         | 130 |
| 135 | 67.3 | 462.7 | 147,700 | 163,100 | 69.0 | 464.8 | 137,000 | 163,800 |      |       |         |         | 135 |
| 140 | 66.2 | 460.5 | 139,600 | 162,300 | 67.8 | 462.7 | 129,300 | 163,400 |      |       |         |         | 140 |
| 145 | 65.0 | 458.1 | 132,200 | 161,500 | 66.7 | 460.5 | 122,200 | 163,100 | 69.1 | 463.3 | 107,400 | 159,400 | 145 |
| 150 | 63.8 | 455.6 | 125,200 | 160,700 | 65.5 | 458.2 | 115,600 | 162,600 | 67.9 | 461.2 | 101,300 | 159,400 | 150 |
| 155 | 62.7 | 453.0 | 118,700 | 159,800 | 64.3 | 455.8 | 109,400 | 162,100 | 66.8 | 459.0 | 95,600  | 159,400 | 155 |
| 160 | 61.5 | 450.2 | 112,600 | 158,900 | 63.1 | 453.2 | 103,700 | 161,600 | 65.6 | 456.7 | 90,300  | 159,400 | 160 |
| 165 | 60.2 | 447.3 | 106,900 | 158,000 | 62.0 | 450.5 | 98,200  | 161,000 | 64.5 | 454.3 | 85,300  | 159,400 | 165 |
| 170 | 59.0 | 444.3 | 101,600 | 157,000 | 60.7 | 447.7 | 93,100  | 160,400 | 63.3 | 451.8 | 80,600  | 154,000 | 170 |
| 175 | 57.8 | 441.1 | 96,500  | 153,100 | 59.5 | 444.7 | 88,300  | 156,900 | 62.1 | 449.1 | 76,200  | 147,900 | 175 |
| 180 | 56.5 | 437.7 | 91,800  | 149,000 | 58.3 | 441.6 | 83,800  | 150,900 | 60.9 | 446.2 | 72,000  | 142,100 | 180 |
| 185 | 55.2 | 434.2 | 87,200  | 144,900 | 57.0 | 438.3 | 79,500  | 145,200 | 59.7 | 443.3 | 68,000  | 136,600 | 185 |
| 190 | 53.9 | 430.5 | 83,000  | 140,700 | 55.7 | 434.8 | 75,500  | 139,800 | 58.4 | 440.2 | 64,300  | 131,400 | 190 |
| 195 | 52.6 | 426.7 | 78,900  | 136,700 | 54.4 | 431.2 | 71,600  | 134,700 | 57.2 | 436.9 | 60,800  | 126,500 | 195 |
| 200 | 51.2 | 422.6 | 75,100  | 132,600 | 53.1 | 427.4 | 68,000  | 129,800 | 55.9 | 433.5 | 57,400  | 121,900 | 200 |
| 205 | 49.8 | 418.4 | 71,400  | 128,700 | 51.8 | 423.5 | 64,500  | 125,200 | 54.6 | 429.9 | 54,200  | 117,500 | 205 |
| 210 | 48.4 | 413.9 | 67,900  | 124,800 | 50.4 | 419.3 | 61,200  | 120,800 | 53.3 | 426.1 | 51,100  | 113,300 | 210 |
| 215 | 47.0 | 409.2 | 64,600  | 121,100 | 49.0 | 414.9 | 58,000  | 116,600 | 51.9 | 422.2 | 48,200  | 109,300 | 215 |
| 220 | 45.5 | 404.2 | 61,400  | 117,400 | 47.6 | 410.3 | 55,000  | 112,700 | 50.6 | 418.0 | 45,400  | 105,500 | 220 |
| 225 | 44.0 | 399.0 | 58,400  | 113,500 | 46.1 | 405.5 | 52,100  | 108,800 | 49.2 | 413.7 | 42,800  | 101,900 | 225 |
| 230 | 42.4 | 393.5 | 55,500  | 109,800 | 44.6 | 400.4 | 49,300  | 105,200 | 47.7 | 409.1 | 40,200  | 98,400  | 230 |
| 240 | 39.1 | 381.5 | 50,000  | 102,800 | 41.5 | 389.3 | 44,100  | 98,400  | 44.8 | 399.2 | 35,400  | 91,900  | 240 |
| 250 | 35.6 | 368.0 | 44,900  | 96,300  | 38.1 | 376.9 | 39,300  | 92,100  | 41.7 | 388.2 | 31,000  | 85,900  | 250 |
| 260 | 31.7 | 352.4 | 40,200  | 90,300  | 34.5 | 362.8 | 34,900  | 86,300  | 38.3 | 375.9 | 26,900  | 80,300  | 260 |
| 270 | 27.3 | 334.0 | 35,800  | 84,800  | 30.5 | 346.5 | 30,700  | 80,900  | 34.7 | 361.9 | 23,100  | 75,200  | 270 |
| 280 | 22.1 | 311.3 | 31,600  | 79,600  | 25.9 | 327.1 | 26,800  | 75,900  | 30.7 | 345.7 |         | 70,400  | 280 |
| 290 | 15.1 | 279.9 | 27,600  | 74,700  | 20.3 | 302.5 | 23,000  | 71,200  | 26.1 | 326.5 |         | 65,900  | 290 |
| 300 |      |       |         |         | 12.3 | 266.2 |         | 66,700  | 20.6 | 302.3 |         | 61,700  | 300 |
| 310 |      |       |         |         |      |       |         |         | 12.9 | 267.0 |         | 57,700  | 310 |
| 320 |      |       |         |         |      |       |         |         |      |       |         |         | 320 |
| 330 |      |       |         |         |      |       |         |         |      |       |         |         | 330 |
| 340 |      |       |         |         |      |       |         |         |      |       |         |         | 340 |
| 350 |      |       |         |         |      |       |         |         |      |       |         |         | 350 |
| 360 |      |       |         |         |      |       |         |         |      |       |         |         | 360 |

# MLC650 VPC-MAX S-1

ASME B30.5



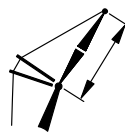
440,900 lb



360°



203.4 ft

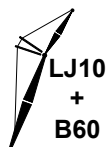


272.3 ft

|     | 75°  |       |        |         | 70°  |       |        |      | 65°   |        |    |     |
|-----|------|-------|--------|---------|------|-------|--------|------|-------|--------|----|-----|
|     |      |       |        |         |      |       |        |      |       |        |    |     |
|     | ft   | °     | ft     | lb      | lb   | °     | ft     | lb   | °     | ft     | lb | ft  |
| 105 |      |       |        |         |      |       |        |      |       |        |    | 105 |
| 110 |      |       |        |         |      |       |        |      |       |        |    | 110 |
| 115 |      |       |        |         |      |       |        |      |       |        |    | 115 |
| 120 |      |       |        |         |      |       |        |      |       |        |    | 120 |
| 125 |      |       |        |         |      |       |        |      |       |        |    | 125 |
| 130 |      |       |        |         |      |       |        |      |       |        |    | 130 |
| 135 |      |       |        |         |      |       |        |      |       |        |    | 135 |
| 140 |      |       |        |         |      |       |        |      |       |        |    | 140 |
| 145 |      |       |        |         |      |       |        |      |       |        |    | 145 |
| 150 |      |       |        |         |      |       |        |      |       |        |    | 150 |
| 155 |      |       |        |         |      |       |        |      |       |        |    | 155 |
| 160 |      |       |        |         |      |       |        |      |       |        |    | 160 |
| 165 |      |       |        |         |      |       |        |      |       |        |    | 165 |
| 170 |      |       |        |         |      |       |        |      |       |        |    | 170 |
| 175 |      |       |        |         |      |       |        |      |       |        |    | 175 |
| 180 | 65.0 | 451.3 | 52,600 | 127,500 |      |       |        |      |       |        |    | 180 |
| 185 | 63.8 | 448.8 | 49,200 | 122,500 |      |       |        |      |       |        |    | 185 |
| 190 | 62.6 | 446.2 | 45,900 | 117,700 |      |       |        |      |       |        |    | 190 |
| 195 | 61.4 | 443.4 | 42,900 | 113,200 |      |       |        |      |       |        |    | 195 |
| 200 | 60.2 | 440.5 | 40,000 | 108,900 |      |       |        |      |       |        |    | 200 |
| 205 | 59.0 | 437.5 | 37,200 | 104,800 |      |       |        |      |       |        |    | 205 |
| 210 | 57.7 | 434.3 | 34,600 | 100,900 |      |       |        |      |       |        |    | 210 |
| 215 | 56.5 | 431.0 | 32,100 | 97,300  |      |       |        |      |       |        |    | 215 |
| 220 | 55.2 | 427.4 | 29,700 | 93,700  | 59.5 | 433.1 | 82,200 |      |       |        |    | 220 |
| 225 | 53.9 | 423.8 | 27,400 | 90,400  | 58.2 | 429.9 | 79,100 |      |       |        |    | 225 |
| 230 | 52.6 | 419.9 | 25,200 | 87,200  | 57.0 | 426.6 | 76,200 |      |       |        |    | 230 |
| 240 | 49.8 | 411.6 | 21,100 | 81,100  | 54.4 | 419.5 | 70,600 |      |       |        |    | 240 |
| 250 | 47.0 | 402.4 |        | 75,600  | 51.7 | 411.8 | 65,500 |      |       |        |    | 250 |
| 260 | 44.0 | 392.2 |        | 70,500  | 48.9 | 403.2 | 60,800 | 53.4 | 409.7 | 51,500 |    | 260 |
| 270 | 40.8 | 380.9 |        | 65,700  | 46.0 | 393.7 | 56,500 | 50.7 | 401.7 | 47,500 |    | 270 |
| 280 | 37.4 | 368.2 |        | 61,300  | 43.0 | 383.2 | 52,400 | 47.9 | 392.8 | 43,800 |    | 280 |
| 290 | 33.7 | 353.6 |        | 57,200  | 39.7 | 371.5 | 48,600 | 44.9 | 382.9 | 40,300 |    | 290 |
| 300 | 29.5 | 336.8 |        | 53,300  | 36.3 | 358.2 | 45,100 | 41.8 | 372.0 | 37,100 |    | 300 |
| 310 | 24.8 | 316.5 |        | 49,700  | 32.4 | 343.1 | 41,800 | 38.5 | 359.7 | 34,000 |    | 310 |
| 320 | 18.9 | 290.3 |        | 46,200  | 28.1 | 325.3 | 38,600 | 34.9 | 345.9 | 31,200 |    | 320 |
| 330 | 9.8  | 248.2 |        | 42,800  | 23.1 | 303.5 | 35,600 | 30.9 | 329.8 | 28,500 |    | 330 |
| 340 |      |       |        |         | 16.6 | 274.3 | 32,700 | 26.4 | 310.8 | 25,800 |    | 340 |
| 350 |      |       |        |         | 2.6  | 208.8 | 29,700 | 21.0 | 286.9 | 22,900 |    | 350 |
| 360 |      |       |        |         |      |       |        | 13.4 | 252.6 | 20,000 |    | 360 |

# MLC650 VPC-MAX S-1

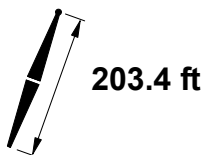
ASME B30.5



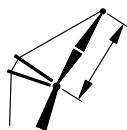
440,900 lb



360°



203.4 ft



292.0 ft

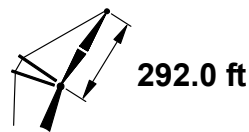
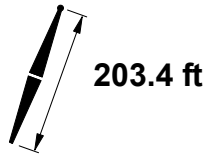
|     | 85°  |       |         |         | 83°  |       |         |         | 80°  |       |        |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|--------|---------|-----|
|     |      |       |         |         |      |       |         |         |      |       |        |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb     | lb      | ft  |
| 110 | 74.2 | 492.8 | 142,500 | 142,500 |      |       |         |         |      |       |        |         | 110 |
| 115 | 73.1 | 491.3 | 142,100 | 142,100 |      |       |         |         |      |       |        |         | 115 |
| 120 | 72.1 | 489.6 | 141,600 | 141,600 |      |       |         |         |      |       |        |         | 120 |
| 125 | 71.1 | 487.9 | 141,100 | 141,100 | 72.5 | 489.4 | 140,400 | 140,400 |      |       |        |         | 125 |
| 130 | 70.0 | 486.0 | 140,500 | 140,500 | 71.5 | 487.7 | 140,200 | 140,200 |      |       |        |         | 130 |
| 135 | 69.0 | 484.0 | 139,900 | 139,900 | 70.4 | 485.9 | 133,000 | 139,900 |      |       |        |         | 135 |
| 140 | 67.9 | 482.0 | 135,900 | 139,200 | 69.4 | 484.0 | 125,400 | 139,500 |      |       |        |         | 140 |
| 145 | 66.8 | 479.8 | 128,500 | 138,400 | 68.3 | 482.0 | 118,300 | 139,100 |      |       |        |         | 145 |
| 150 | 65.7 | 477.5 | 121,500 | 137,700 | 67.3 | 479.9 | 111,700 | 138,700 | 69.5 | 482.5 | 97,200 | 135,500 | 150 |
| 155 | 64.7 | 475.1 | 115,000 | 136,900 | 66.2 | 477.6 | 105,600 | 138,200 | 68.4 | 480.5 | 91,500 | 135,500 | 155 |
| 160 | 63.6 | 472.6 | 109,000 | 136,100 | 65.1 | 475.3 | 99,800  | 137,700 | 67.4 | 478.3 | 86,200 | 135,500 | 160 |
| 165 | 62.4 | 469.9 | 103,300 | 135,300 | 64.0 | 472.8 | 94,400  | 137,100 | 66.3 | 476.1 | 81,200 | 135,400 | 165 |
| 170 | 61.3 | 467.2 | 97,900  | 134,400 | 62.9 | 470.2 | 89,300  | 136,500 | 65.2 | 473.8 | 76,600 | 135,300 | 170 |
| 175 | 60.2 | 464.3 | 92,900  | 133,600 | 61.8 | 467.5 | 84,500  | 135,900 | 64.1 | 471.3 | 72,200 | 135,100 | 175 |
| 180 | 59.0 | 461.2 | 88,100  | 132,700 | 60.7 | 464.6 | 80,000  | 135,300 | 63.0 | 468.7 | 68,000 | 134,900 | 180 |
| 185 | 57.9 | 458.1 | 83,600  | 131,900 | 59.5 | 461.7 | 75,800  | 134,600 | 61.9 | 466.0 | 64,100 | 133,400 | 185 |
| 190 | 56.7 | 454.7 | 79,400  | 130,600 | 58.4 | 458.5 | 71,700  | 133,900 | 60.8 | 463.2 | 60,300 | 128,300 | 190 |
| 195 | 55.5 | 451.3 | 75,300  | 127,300 | 57.2 | 455.3 | 67,900  | 131,600 | 59.6 | 460.2 | 56,800 | 123,400 | 195 |
| 200 | 54.3 | 447.6 | 71,500  | 124,000 | 56.0 | 451.9 | 64,200  | 126,800 | 58.5 | 457.1 | 53,500 | 118,800 | 200 |
| 205 | 53.1 | 443.8 | 67,800  | 120,700 | 54.8 | 448.3 | 60,800  | 122,200 | 57.3 | 453.9 | 50,300 | 114,400 | 205 |
| 210 | 51.8 | 439.9 | 64,400  | 117,400 | 53.6 | 444.6 | 57,500  | 117,900 | 56.1 | 450.5 | 47,200 | 110,200 | 210 |
| 215 | 50.5 | 435.7 | 61,000  | 114,200 | 52.3 | 440.7 | 54,300  | 113,700 | 54.9 | 447.0 | 44,300 | 106,200 | 215 |
| 220 | 49.2 | 431.4 | 57,900  | 111,000 | 51.1 | 436.6 | 51,300  | 109,700 | 53.7 | 443.2 | 41,600 | 102,500 | 220 |
| 225 | 47.9 | 426.8 | 54,900  | 107,900 | 49.8 | 432.3 | 48,500  | 105,900 | 52.5 | 439.4 | 38,900 | 98,800  | 225 |
| 230 | 46.6 | 422.1 | 52,000  | 104,900 | 48.5 | 427.9 | 45,700  | 102,300 | 51.2 | 435.3 | 36,400 | 95,400  | 230 |
| 240 | 43.7 | 411.8 | 46,500  | 99,000  | 45.7 | 418.3 | 40,600  | 95,500  | 48.6 | 426.6 | 31,700 | 88,900  | 240 |
| 250 | 40.8 | 400.5 | 41,500  | 93,600  | 42.9 | 407.7 | 35,800  | 89,300  | 45.9 | 417.1 | 27,300 | 82,900  | 250 |
| 260 | 37.6 | 387.8 | 36,900  | 87,600  | 39.9 | 396.0 | 31,400  | 83,500  | 43.0 | 406.6 | 23,200 | 77,400  | 260 |
| 270 | 34.2 | 373.5 | 32,500  | 82,100  | 36.6 | 382.9 | 27,300  | 78,200  | 40.0 | 395.0 |        | 72,300  | 270 |
| 280 | 30.4 | 357.2 | 28,500  | 77,000  | 33.1 | 368.1 | 23,400  | 73,200  | 36.8 | 381.9 |        | 67,600  | 280 |
| 290 | 26.2 | 337.9 | 24,600  | 72,200  | 29.2 | 351.0 |         | 68,600  | 33.3 | 367.2 |        | 63,200  | 290 |
| 300 | 21.1 | 314.1 | 21,000  | 67,700  | 24.8 | 330.6 |         | 64,300  | 29.5 | 350.3 |        | 59,000  | 300 |
| 310 | 14.3 | 281.0 |         | 63,400  | 19.4 | 304.9 |         | 60,100  | 25.0 | 330.1 |        | 55,200  | 310 |
| 320 |      |       |         |         | 11.6 | 266.4 |         | 56,200  | 19.7 | 304.7 |        | 51,500  | 320 |
| 330 |      |       |         |         |      |       |         |         | 12.1 | 267.5 |        | 47,900  | 330 |
| 340 |      |       |         |         |      |       |         |         |      |       |        |         | 340 |
| 350 |      |       |         |         |      |       |         |         |      |       |        |         | 350 |
| 360 |      |       |         |         |      |       |         |         |      |       |        |         | 360 |

# MLC650 VPC-MAX S-1

ASME B30.5



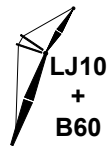
440,900 lb



|     | 75°  |       |        |         | 70°  |       |        |      | 65°   |        |    |     |
|-----|------|-------|--------|---------|------|-------|--------|------|-------|--------|----|-----|
|     |      |       |        |         |      |       |        |      |       |        |    |     |
|     | ft   | °     | ft     | lb      | lb   | °     | ft     | lb   | °     | ft     | lb | ft  |
| 110 |      |       |        |         |      |       |        |      |       |        |    | 110 |
| 115 |      |       |        |         |      |       |        |      |       |        |    | 115 |
| 120 |      |       |        |         |      |       |        |      |       |        |    | 120 |
| 125 |      |       |        |         |      |       |        |      |       |        |    | 125 |
| 130 |      |       |        |         |      |       |        |      |       |        |    | 130 |
| 135 |      |       |        |         |      |       |        |      |       |        |    | 135 |
| 140 |      |       |        |         |      |       |        |      |       |        |    | 140 |
| 145 |      |       |        |         |      |       |        |      |       |        |    | 145 |
| 150 |      |       |        |         |      |       |        |      |       |        |    | 150 |
| 155 |      |       |        |         |      |       |        |      |       |        |    | 155 |
| 160 |      |       |        |         |      |       |        |      |       |        |    | 160 |
| 165 |      |       |        |         |      |       |        |      |       |        |    | 165 |
| 170 |      |       |        |         |      |       |        |      |       |        |    | 170 |
| 175 |      |       |        |         |      |       |        |      |       |        |    | 175 |
| 180 |      |       |        |         |      |       |        |      |       |        |    | 180 |
| 185 |      |       |        |         |      |       |        |      |       |        |    | 185 |
| 190 | 64.6 | 468.3 | 41,600 | 114,300 |      |       |        |      |       |        |    | 190 |
| 195 | 63.5 | 465.8 | 38,600 | 109,800 |      |       |        |      |       |        |    | 195 |
| 200 | 62.4 | 463.2 | 35,700 | 105,600 |      |       |        |      |       |        |    | 200 |
| 205 | 61.3 | 460.4 | 33,000 | 101,500 |      |       |        |      |       |        |    | 205 |
| 210 | 60.2 | 457.5 | 30,400 | 97,700  |      |       |        |      |       |        |    | 210 |
| 215 | 59.0 | 454.5 | 27,900 | 94,000  |      |       |        |      |       |        |    | 215 |
| 220 | 57.9 | 451.3 | 25,500 | 90,500  |      |       |        |      |       |        |    | 220 |
| 225 | 56.7 | 448.0 | 23,300 | 87,100  |      |       |        |      |       |        |    | 225 |
| 230 | 55.5 | 444.5 | 21,100 | 84,000  | 59.5 | 450.0 | 72,800 |      |       |        |    | 230 |
| 240 | 53.0 | 437.1 |        | 78,000  | 57.1 | 443.6 | 67,300 |      |       |        |    | 240 |
| 250 | 50.5 | 428.9 |        | 72,500  | 54.7 | 436.6 | 62,200 |      |       |        |    | 250 |
| 260 | 47.9 | 420.0 |        | 67,400  | 52.3 | 429.0 | 57,600 |      |       |        |    | 260 |
| 270 | 45.1 | 410.3 |        | 62,700  | 49.7 | 420.6 | 53,300 | 53.8 | 426.8 | 44,100 |    | 270 |
| 280 | 42.3 | 399.5 |        | 58,300  | 47.0 | 411.5 | 49,200 | 51.3 | 418.9 | 40,400 |    | 280 |
| 290 | 39.2 | 387.5 |        | 54,300  | 44.3 | 401.4 | 45,500 | 48.7 | 410.3 | 37,000 |    | 290 |
| 300 | 35.9 | 374.1 |        | 50,400  | 41.3 | 390.3 | 42,000 | 46.0 | 400.8 | 33,800 |    | 300 |
| 310 | 32.3 | 358.8 |        | 46,900  | 38.2 | 377.9 | 38,700 | 43.2 | 390.4 | 30,800 |    | 310 |
| 320 | 28.3 | 341.1 |        | 43,500  | 34.8 | 363.9 | 35,600 | 40.2 | 378.8 | 27,600 |    | 320 |
| 330 | 23.7 | 319.8 |        | 40,300  | 31.1 | 348.0 | 32,700 | 37.0 | 365.9 | 24,500 |    | 330 |
| 340 | 18.0 | 292.3 |        | 37,200  | 27.0 | 329.3 | 30,000 | 33.5 | 351.3 | 21,500 |    | 340 |
| 350 | 9.0  | 247.6 |        | 34,200  | 22.1 | 306.5 | 27,300 |      |       |        |    | 350 |
| 360 |      |       |        |         | 15.8 | 275.8 | 24,800 |      |       |        |    | 360 |

# MLC650 VPC-MAX S-1

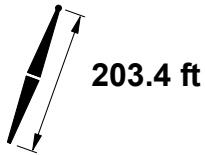
ASME B30.5



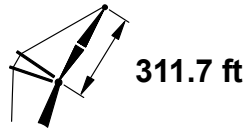
440,900 lb



360°



203.4 ft

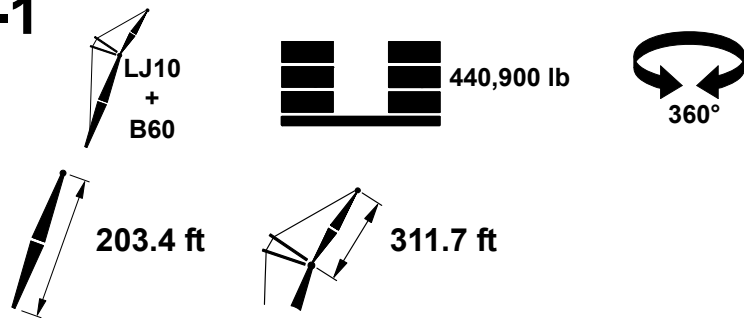


311.7 ft

|     | 85°  |       |         |         | 83°  |       |         |         | 80°  |       |        |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|--------|---------|-----|
|     |      |       |         |         |      |       |         |         |      |       |        |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb     | lb      | ft  |
| 115 | 74.2 | 511.9 | 123,400 | 123,400 |      |       |         |         |      |       |        |         | 115 |
| 120 | 73.3 | 510.3 | 122,700 | 122,700 |      |       |         |         |      |       |        |         | 120 |
| 125 | 72.3 | 508.7 | 122,200 | 122,200 |      |       |         |         |      |       |        |         | 125 |
| 130 | 71.3 | 507.0 | 121,700 | 121,700 | 72.7 | 508.5 | 121,100 | 121,100 |      |       |        |         | 130 |
| 135 | 70.3 | 505.2 | 121,100 | 121,100 | 71.7 | 506.8 | 120,900 | 120,900 |      |       |        |         | 135 |
| 140 | 69.4 | 503.2 | 120,500 | 120,500 | 70.8 | 505.1 | 120,500 | 120,500 |      |       |        |         | 140 |
| 145 | 68.4 | 501.2 | 119,900 | 119,900 | 69.8 | 503.2 | 116,000 | 120,100 |      |       |        |         | 145 |
| 150 | 67.4 | 499.1 | 119,200 | 119,200 | 68.8 | 501.2 | 109,500 | 119,700 |      |       |        |         | 150 |
| 155 | 66.4 | 496.9 | 112,900 | 118,600 | 67.8 | 499.1 | 103,300 | 119,200 | 69.9 | 501.6 | 89,000 | 116,400 | 155 |
| 160 | 65.4 | 494.6 | 106,900 | 117,900 | 66.8 | 497.0 | 97,600  | 118,800 | 68.9 | 499.7 | 83,700 | 116,400 | 160 |
| 165 | 64.3 | 492.1 | 101,200 | 117,100 | 65.8 | 494.7 | 92,200  | 118,300 | 67.9 | 497.6 | 78,800 | 116,300 | 165 |
| 170 | 63.3 | 489.6 | 95,900  | 116,400 | 64.8 | 492.3 | 87,100  | 117,700 | 66.9 | 495.5 | 74,100 | 116,100 | 170 |
| 175 | 62.3 | 486.9 | 90,800  | 115,600 | 63.7 | 489.8 | 82,400  | 117,200 | 65.9 | 493.2 | 69,700 | 115,900 | 175 |
| 180 | 61.2 | 484.1 | 86,100  | 114,900 | 62.7 | 487.2 | 77,900  | 116,600 | 64.9 | 490.8 | 65,600 | 115,700 | 180 |
| 185 | 60.1 | 481.2 | 81,600  | 114,100 | 61.6 | 484.4 | 73,600  | 116,000 | 63.8 | 488.3 | 61,700 | 115,400 | 185 |
| 190 | 59.1 | 478.2 | 77,400  | 113,300 | 60.6 | 481.6 | 69,600  | 115,400 | 62.8 | 485.7 | 58,000 | 115,200 | 190 |
| 195 | 58.0 | 475.0 | 73,300  | 112,600 | 59.5 | 478.6 | 65,800  | 114,800 | 61.8 | 483.0 | 54,500 | 114,900 | 195 |
| 200 | 56.9 | 471.7 | 69,500  | 111,800 | 58.4 | 475.5 | 62,100  | 114,300 | 60.7 | 480.2 | 51,200 | 114,500 | 200 |
| 205 | 55.8 | 468.3 | 65,900  | 111,000 | 57.3 | 472.3 | 58,700  | 113,600 | 59.6 | 477.2 | 48,000 | 112,500 | 205 |
| 210 | 54.6 | 464.7 | 62,400  | 109,100 | 56.2 | 468.9 | 55,400  | 112,900 | 58.5 | 474.1 | 45,000 | 108,300 | 210 |
| 215 | 53.5 | 461.0 | 59,100  | 106,400 | 55.1 | 465.4 | 52,300  | 112,000 | 57.5 | 470.9 | 42,100 | 104,400 | 215 |
| 220 | 52.3 | 457.1 | 56,000  | 103,700 | 54.0 | 461.7 | 49,300  | 108,000 | 56.3 | 467.5 | 39,300 | 100,600 | 220 |
| 225 | 51.1 | 453.0 | 52,900  | 101,100 | 52.8 | 457.9 | 46,400  | 104,200 | 55.2 | 464.0 | 36,700 | 97,000  | 225 |
| 230 | 49.9 | 448.8 | 50,100  | 98,500  | 51.6 | 453.9 | 43,700  | 100,600 | 54.1 | 460.4 | 34,200 | 93,600  | 230 |
| 240 | 47.5 | 439.7 | 44,700  | 93,300  | 49.2 | 445.4 | 38,600  | 93,900  | 51.8 | 452.6 | 29,500 | 87,100  | 240 |
| 250 | 44.9 | 429.9 | 39,700  | 88,400  | 46.7 | 436.1 | 33,800  | 87,700  | 49.3 | 444.1 | 25,200 | 81,200  | 250 |
| 260 | 42.2 | 419.0 | 35,100  | 83,700  | 44.1 | 425.9 | 29,500  | 82,000  | 46.8 | 434.9 | 21,100 | 75,700  | 260 |
| 270 | 39.3 | 407.1 | 30,800  | 79,400  | 41.3 | 414.8 | 25,400  | 76,700  | 44.2 | 424.8 |        | 70,700  | 270 |
| 280 | 36.2 | 393.8 | 26,800  | 75,300  | 38.4 | 402.5 | 21,600  | 71,700  | 41.5 | 413.7 |        | 66,000  | 280 |
| 290 | 32.9 | 378.8 | 23,000  | 70,800  | 35.3 | 388.7 |         | 67,100  | 38.6 | 401.4 |        | 61,600  | 290 |
| 300 | 29.3 | 361.7 |         | 66,400  | 31.9 | 373.2 |         | 62,800  | 35.5 | 387.8 |        | 57,500  | 300 |
| 310 | 25.1 | 341.5 |         | 62,200  | 28.1 | 355.3 |         | 58,800  | 32.1 | 372.3 |        | 53,700  | 310 |
| 320 | 20.2 | 316.6 |         | 58,300  | 23.8 | 334.0 |         | 55,000  | 28.3 | 354.6 |        | 50,100  | 320 |
| 330 | 13.6 | 281.9 |         | 54,500  | 18.5 | 307.0 |         | 51,400  | 24.1 | 333.5 |        | 46,600  | 330 |
| 340 |      |       |         |         | 10.8 | 266.5 |         | 47,900  | 18.8 | 306.9 |        | 43,400  | 340 |
| 350 |      |       |         |         |      |       |         |         | 11.4 | 267.7 |        | 40,200  | 350 |
| 360 |      |       |         |         |      |       |         |         |      |       |        |         | 360 |
| 370 |      |       |         |         |      |       |         |         |      |       |        |         | 370 |

# MLC650 VPC-MAX S-1

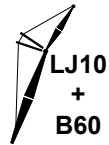
ASME B30.5



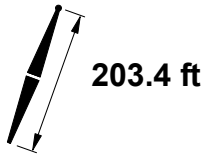
|     | 75°  |       |         | 70°  |       |        | 65°  |       |        |     |
|-----|------|-------|---------|------|-------|--------|------|-------|--------|-----|
|     |      |       |         |      |       |        |      |       |        |     |
|     | ft   | °     | ft      | lb   | °     | ft     | lb   | ft    | lb     | ft  |
| 115 |      |       |         |      |       |        |      |       |        | 115 |
| 120 |      |       |         |      |       |        |      |       |        | 120 |
| 125 |      |       |         |      |       |        |      |       |        | 125 |
| 130 |      |       |         |      |       |        |      |       |        | 130 |
| 135 |      |       |         |      |       |        |      |       |        | 135 |
| 140 |      |       |         |      |       |        |      |       |        | 140 |
| 145 |      |       |         |      |       |        |      |       |        | 145 |
| 150 |      |       |         |      |       |        |      |       |        | 150 |
| 155 |      |       |         |      |       |        |      |       |        | 155 |
| 160 |      |       |         |      |       |        |      |       |        | 160 |
| 165 |      |       |         |      |       |        |      |       |        | 165 |
| 170 |      |       |         |      |       |        |      |       |        | 170 |
| 175 |      |       |         |      |       |        |      |       |        | 175 |
| 180 |      |       |         |      |       |        |      |       |        | 180 |
| 185 |      |       |         |      |       |        |      |       |        | 185 |
| 190 |      |       |         |      |       |        |      |       |        | 190 |
| 195 |      |       |         |      |       |        |      |       |        | 195 |
| 200 | 64.3 | 485.4 | 103,400 |      |       |        |      |       |        | 200 |
| 205 | 63.3 | 482.8 | 99,400  |      |       |        |      |       |        | 205 |
| 210 | 62.2 | 480.1 | 95,600  |      |       |        |      |       |        | 210 |
| 215 | 61.2 | 477.4 | 91,900  |      |       |        |      |       |        | 215 |
| 220 | 60.1 | 474.5 | 88,500  |      |       |        |      |       |        | 220 |
| 225 | 59.0 | 471.4 | 85,100  |      |       |        |      |       |        | 225 |
| 230 | 58.0 | 468.3 | 82,000  |      |       |        |      |       |        | 230 |
| 240 | 55.7 | 461.5 | 76,000  | 59.5 | 467.0 | 65,200 |      |       |        | 240 |
| 250 | 53.5 | 454.2 | 70,600  | 57.3 | 460.6 | 60,200 |      |       |        | 250 |
| 260 | 51.1 | 446.2 | 65,500  | 55.0 | 453.7 | 55,500 |      |       |        | 260 |
| 270 | 48.7 | 437.6 | 60,900  | 52.7 | 446.2 | 51,300 |      |       |        | 270 |
| 280 | 46.2 | 428.1 | 56,500  | 50.4 | 438.0 | 47,300 | 54.2 | 443.9 | 38,300 | 280 |
| 290 | 43.5 | 417.8 | 52,500  | 47.9 | 429.1 | 43,600 | 51.9 | 436.2 | 34,900 | 290 |
| 300 | 40.7 | 406.4 | 48,700  | 45.3 | 419.4 | 40,100 | 49.5 | 427.8 | 31,400 | 300 |
| 310 | 37.8 | 393.8 | 45,200  | 42.7 | 408.7 | 36,900 | 47.0 | 418.6 | 28,000 | 310 |
| 320 | 34.6 | 379.7 | 41,900  | 39.8 | 397.0 | 33,800 | 44.4 | 408.5 | 24,700 | 320 |
| 330 | 31.1 | 363.7 | 38,700  | 36.8 | 383.9 | 31,000 | 41.6 | 397.5 | 21,700 | 330 |
| 340 | 27.3 | 345.2 | 35,800  | 33.5 | 369.3 | 28,300 |      |       |        | 340 |
| 350 | 22.8 | 322.9 | 32,900  | 30.0 | 352.6 | 25,400 |      |       |        | 350 |
| 360 | 17.2 | 294.1 | 30,200  | 25.9 | 333.1 | 22,600 |      |       |        | 360 |
| 370 | 8.2  | 246.6 | 27,500  |      |       |        |      |       |        | 370 |

# MLC650 VPC-MAX S-1

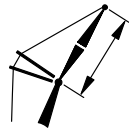
ASME B30.5



440,900 lb



203.4 ft

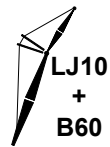


331.4 ft

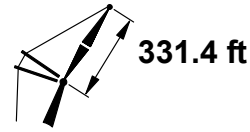
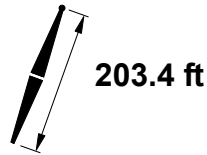
|     | 85°  |       |         |         | 83°  |       |         |         | 80°  |       |        |        |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|--------|--------|-----|
|     |      |       |         |         |      |       |         |         |      |       |        |        |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb     | lb     | ft  |
| 120 | 74.3 | 530.9 | 106,100 | 106,100 |      |       |         |         |      |       |        |        | 120 |
| 125 | 73.4 | 529.4 | 105,600 | 105,600 |      |       |         |         |      |       |        |        | 125 |
| 130 | 72.5 | 527.8 | 105,000 | 105,000 |      |       |         |         |      |       |        |        | 130 |
| 135 | 71.6 | 526.1 | 104,400 | 104,400 | 72.9 | 527.6 | 103,800 | 103,800 |      |       |        |        | 135 |
| 140 | 70.6 | 524.3 | 103,900 | 103,900 | 71.9 | 525.9 | 103,600 | 103,600 |      |       |        |        | 140 |
| 145 | 69.7 | 522.4 | 103,300 | 103,300 | 71.0 | 524.2 | 103,200 | 103,200 |      |       |        |        | 145 |
| 150 | 68.8 | 520.4 | 102,700 | 102,700 | 70.1 | 522.3 | 102,800 | 102,800 |      |       |        |        | 150 |
| 155 | 67.9 | 518.4 | 102,000 | 102,000 | 69.2 | 520.4 | 99,600  | 102,300 |      |       |        |        | 155 |
| 160 | 66.9 | 516.2 | 101,400 | 101,400 | 68.2 | 518.4 | 93,900  | 101,800 |      |       |        |        | 160 |
| 165 | 66.0 | 514.0 | 97,600  | 100,700 | 67.3 | 516.3 | 88,500  | 101,300 | 69.3 | 518.9 | 74,800 | 99,200 | 165 |
| 170 | 65.0 | 511.6 | 92,300  | 100,000 | 66.4 | 514.0 | 83,400  | 100,800 | 68.3 | 516.9 | 70,200 | 99,000 | 170 |
| 175 | 64.0 | 509.1 | 87,300  | 99,300  | 65.4 | 511.7 | 78,700  | 100,300 | 67.4 | 514.8 | 65,800 | 98,800 | 175 |
| 180 | 63.1 | 506.6 | 82,600  | 98,600  | 64.4 | 509.3 | 74,200  | 99,700  | 66.5 | 512.5 | 61,700 | 98,500 | 180 |
| 185 | 62.1 | 503.9 | 78,100  | 97,900  | 63.5 | 506.8 | 69,900  | 99,200  | 65.5 | 510.2 | 57,800 | 98,200 | 185 |
| 190 | 61.1 | 501.1 | 73,800  | 97,200  | 62.5 | 504.1 | 65,900  | 98,600  | 64.5 | 507.8 | 54,100 | 97,900 | 190 |
| 195 | 60.1 | 498.2 | 69,800  | 96,500  | 61.5 | 501.4 | 62,100  | 98,100  | 63.6 | 505.3 | 50,600 | 97,600 | 195 |
| 200 | 59.1 | 495.2 | 66,000  | 95,800  | 60.5 | 498.5 | 58,500  | 97,500  | 62.6 | 502.7 | 47,300 | 97,300 | 200 |
| 205 | 58.1 | 492.0 | 62,400  | 95,100  | 59.5 | 495.6 | 55,100  | 96,900  | 61.6 | 500.0 | 44,200 | 97,000 | 205 |
| 210 | 57.0 | 488.7 | 58,900  | 94,400  | 58.5 | 492.5 | 51,800  | 96,300  | 60.6 | 497.1 | 41,200 | 96,600 | 210 |
| 215 | 56.0 | 485.3 | 55,600  | 93,800  | 57.5 | 489.2 | 48,700  | 95,800  | 59.6 | 494.1 | 38,300 | 96,200 | 215 |
| 220 | 54.9 | 481.8 | 52,500  | 93,100  | 56.4 | 485.9 | 45,700  | 95,200  | 58.6 | 491.1 | 35,600 | 95,800 | 220 |
| 225 | 53.9 | 478.1 | 49,500  | 92,400  | 55.4 | 482.4 | 42,900  | 94,600  | 57.6 | 487.9 | 33,000 | 94,100 | 225 |
| 230 | 52.8 | 474.3 | 46,600  | 90,700  | 54.3 | 478.8 | 40,100  | 94,000  | 56.5 | 484.5 | 30,500 | 90,600 | 230 |
| 240 | 50.5 | 466.1 | 41,200  | 86,400  | 52.1 | 471.1 | 35,000  | 91,100  | 54.4 | 477.4 | 25,800 | 84,200 | 240 |
| 250 | 48.2 | 457.3 | 36,300  | 82,100  | 49.9 | 462.8 | 30,300  | 84,900  | 52.2 | 469.8 | 21,500 | 78,300 | 250 |
| 260 | 45.8 | 447.8 | 31,700  | 78,000  | 47.5 | 453.8 | 26,000  | 79,200  | 50.0 | 461.5 |        | 72,900 | 260 |
| 270 | 43.3 | 437.3 | 27,400  | 74,000  | 45.1 | 443.9 | 22,000  | 73,900  | 47.7 | 452.5 |        | 67,900 | 270 |
| 280 | 40.7 | 425.9 | 23,500  | 70,300  | 42.6 | 433.3 |         | 69,000  | 45.3 | 442.8 |        | 63,200 | 280 |
| 290 | 38.0 | 413.4 |         | 66,800  | 39.9 | 421.5 |         | 64,500  | 42.7 | 432.1 |        | 58,800 | 290 |
| 300 | 35.0 | 399.5 |         | 63,600  | 37.1 | 408.6 |         | 60,200  | 40.1 | 420.5 |        | 54,800 | 300 |
| 310 | 31.8 | 383.9 |         | 59,700  | 34.1 | 394.2 |         | 56,200  | 37.3 | 407.6 |        | 51,000 | 310 |
| 320 | 28.2 | 366.0 |         | 55,900  | 30.8 | 378.0 |         | 52,500  | 34.2 | 393.3 |        | 47,400 | 320 |
| 330 | 24.2 | 345.0 |         | 52,200  | 27.1 | 359.4 |         | 48,900  | 31.0 | 377.2 |        | 44,000 | 330 |
| 340 | 19.4 | 319.0 |         | 48,700  | 22.9 | 337.2 |         | 45,600  | 27.3 | 358.7 |        | 40,800 | 340 |
| 350 | 12.9 | 282.6 |         | 44,300  | 17.7 | 309.0 |         | 42,300  | 23.2 | 336.7 |        | 37,800 | 350 |
| 360 |      |       |         |         | 10.2 | 266.3 |         | 39,200  | 18.1 | 309.0 |        | 34,900 | 360 |
| 370 |      |       |         |         |      |       |         |         | 10.7 | 267.7 |        | 32,000 | 370 |
| 380 |      |       |         |         |      |       |         |         |      |       |        |        | 380 |

# MLC650 VPC-MAX S-1

ASME B30.5



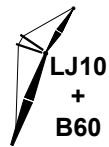
440,900 lb



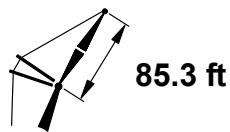
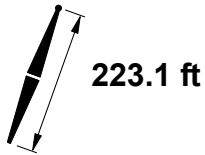
|     | 75°  |       |        | 70°  |       |        |     |
|-----|------|-------|--------|------|-------|--------|-----|
|     |      |       |        |      |       |        |     |
| ft  | °    | ft    | lb     | °    | ft    | lb     | ft  |
| 120 |      |       |        |      |       |        | 120 |
| 125 |      |       |        |      |       |        | 125 |
| 130 |      |       |        |      |       |        | 130 |
| 135 |      |       |        |      |       |        | 135 |
| 140 |      |       |        |      |       |        | 140 |
| 145 |      |       |        |      |       |        | 145 |
| 150 |      |       |        |      |       |        | 150 |
| 155 |      |       |        |      |       |        | 155 |
| 160 |      |       |        |      |       |        | 160 |
| 165 |      |       |        |      |       |        | 165 |
| 170 |      |       |        |      |       |        | 170 |
| 175 |      |       |        |      |       |        | 175 |
| 180 |      |       |        |      |       |        | 180 |
| 185 |      |       |        |      |       |        | 185 |
| 190 |      |       |        |      |       |        | 190 |
| 195 |      |       |        |      |       |        | 195 |
| 200 |      |       |        |      |       |        | 200 |
| 205 | 65.0 | 504.8 | 90,500 |      |       |        | 205 |
| 210 | 64.0 | 502.4 | 90,500 |      |       |        | 210 |
| 215 | 63.1 | 499.8 | 88,700 |      |       |        | 215 |
| 220 | 62.1 | 497.1 | 85,300 |      |       |        | 220 |
| 225 | 61.1 | 494.3 | 82,000 |      |       |        | 225 |
| 230 | 60.1 | 491.4 | 78,800 |      |       |        | 230 |
| 240 | 58.1 | 485.2 | 72,900 |      |       |        | 240 |
| 250 | 56.0 | 478.5 | 67,500 | 59.5 | 483.9 | 56,900 | 250 |
| 260 | 53.8 | 471.3 | 62,500 | 57.4 | 477.6 | 52,300 | 260 |
| 270 | 51.6 | 463.5 | 57,900 | 55.3 | 470.7 | 48,100 | 270 |
| 280 | 49.4 | 455.0 | 53,600 | 53.2 | 463.3 | 44,200 | 280 |
| 290 | 47.0 | 445.8 | 49,600 | 50.9 | 455.3 | 40,500 | 290 |
| 300 | 44.6 | 435.9 | 45,800 | 48.7 | 446.6 | 37,100 | 300 |
| 310 | 42.0 | 425.0 | 42,300 | 46.3 | 437.2 | 33,900 | 310 |
| 320 | 39.3 | 413.0 | 39,000 | 43.8 | 427.0 | 30,800 | 320 |
| 330 | 36.5 | 399.8 | 35,900 | 41.2 | 415.7 | 27,500 | 330 |
| 340 | 33.4 | 385.1 | 33,000 | 38.5 | 403.4 | 24,300 | 340 |
| 350 | 30.0 | 368.4 | 30,200 | 35.5 | 389.8 | 21,400 | 350 |
| 360 | 26.3 | 349.1 | 27,600 |      |       |        | 360 |
| 370 | 21.9 | 325.9 | 25,100 |      |       |        | 370 |
| 380 | 16.4 | 295.8 | 22,200 |      |       |        | 380 |

# MLC650 VPC-MAX S-1

ASME B30.5



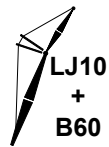
440,900 lb



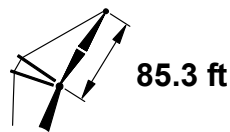
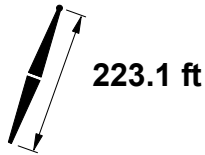
|     | 85°  |       |           |           | 83°  |       |           |           | 80°  |       |           |           |     |
|-----|------|-------|-----------|-----------|------|-------|-----------|-----------|------|-------|-----------|-----------|-----|
|     |      |       |           |           |      |       |           |           |      |       |           |           |     |
|     | ft   | °     | ft        | lb        | lb   | °     | ft        | lb        | lb   | °     | ft        | lb        | ft  |
| 55  | 74.3 | 313.7 | 486,100 d | 594,200 d |      |       |           |           |      |       |           |           | 55  |
| 60  | 70.7 | 311.8 | 438,100 c | 577,200 c |      |       |           |           |      |       |           |           | 60  |
| 65  | 67.1 | 309.6 | 398,000 c | 560,700 c | 72.7 | 312.0 | 377,300 c | 593,300 c |      |       |           |           | 65  |
| 70  | 63.3 | 306.9 | 364,000 c | 536,100 c | 69.1 | 309.9 | 345,000 c | 546,400 c |      |       |           |           | 70  |
| 75  | 59.3 | 303.9 | 334,700 b | 496,000 b | 65.4 | 307.5 | 317,200 c | 502,300 c |      |       |           |           | 75  |
| 80  | 55.2 | 300.3 | 309,300 b | 462,200 b | 61.5 | 304.7 | 293,100 b | 464,500 b |      |       |           |           | 80  |
| 85  | 50.8 | 296.1 | 287,000   | 433,500   | 57.5 | 301.4 | 271,900 b | 431,600 b | 66.6 | 306.4 | 249,100 c | 413,600 c | 85  |
| 90  | 46.1 | 291.2 | 267,200   | 409,500   | 53.3 | 297.5 | 253,100 b | 402,700 b | 62.7 | 303.7 | 231,800 b | 386,000 b | 90  |
| 95  | 41.0 | 285.3 | 249,500   | 387,700   | 48.8 | 293.0 | 236,300   | 377,200   | 58.8 | 300.6 | 216,400 b | 361,500 b | 95  |
| 100 | 35.1 | 278.2 | 233,500   | 364,300   | 43.9 | 287.7 | 221,200   | 354,500   | 54.6 | 296.9 | 202,500 b | 339,700 b | 100 |
| 105 | 28.1 | 269.0 | 218,900   | 343,200   | 38.4 | 281.4 | 207,500   | 334,000   | 50.2 | 292.6 | 189,900   | 320,100   | 105 |
| 110 | 18.5 | 255.5 | 205,200   | 324,100   | 32.2 | 273.5 | 195,000   | 315,500   | 45.4 | 287.6 | 178,500   | 302,500   | 110 |
| 115 |      |       |           |           | 24.3 | 262.9 | 183,200   | 298,700   | 40.2 | 281.6 | 168,000   | 286,400   | 115 |
| 120 |      |       |           |           | 11.1 | 243.8 | 171,700   | 282,900   | 34.2 | 274.3 | 158,300   | 271,700   | 120 |
| 125 |      |       |           |           |      |       |           |           | 27.0 | 264.7 | 149,100   | 258,200   | 125 |
| 130 |      |       |           |           |      |       |           |           | 16.6 | 250.1 | 140,300   | 245,600   | 130 |
| 135 |      |       |           |           |      |       |           |           |      |       |           |           | 135 |
| 140 |      |       |           |           |      |       |           |           |      |       |           |           | 140 |
| 145 |      |       |           |           |      |       |           |           |      |       |           |           | 145 |
| 150 |      |       |           |           |      |       |           |           |      |       |           |           | 150 |
| 155 |      |       |           |           |      |       |           |           |      |       |           |           | 155 |
| 160 |      |       |           |           |      |       |           |           |      |       |           |           | 160 |
| 165 |      |       |           |           |      |       |           |           |      |       |           |           | 165 |
| 170 |      |       |           |           |      |       |           |           |      |       |           |           | 170 |
| 175 |      |       |           |           |      |       |           |           |      |       |           |           | 175 |
| 180 |      |       |           |           |      |       |           |           |      |       |           |           | 180 |
| 185 |      |       |           |           |      |       |           |           |      |       |           |           | 185 |

# MLC650 VPC-MAX S-1

ASME B30.5



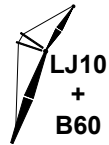
440,900 lb



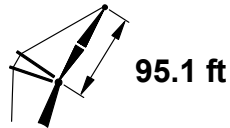
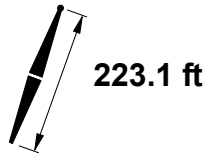
|     | 75°  |       |           |           | 70°  |       |        |         | 65°  |       |        |         |     |
|-----|------|-------|-----------|-----------|------|-------|--------|---------|------|-------|--------|---------|-----|
|     |      |       |           |           |      |       |        |         |      |       |        |         |     |
| ft  | °    | ft    | lb        | lb        | °    | ft    | lb     | lb      | °    | ft    | lb     | lb      | ft  |
| 55  |      |       |           |           |      |       |        |         |      |       |        |         | 55  |
| 60  |      |       |           |           |      |       |        |         |      |       |        |         | 60  |
| 65  |      |       |           |           |      |       |        |         |      |       |        |         | 65  |
| 70  |      |       |           |           |      |       |        |         |      |       |        |         | 70  |
| 75  |      |       |           |           |      |       |        |         |      |       |        |         | 75  |
| 80  |      |       |           |           |      |       |        |         |      |       |        |         | 80  |
| 85  |      |       |           |           |      |       |        |         |      |       |        |         | 85  |
| 90  |      |       |           |           |      |       |        |         |      |       |        |         | 90  |
| 95  |      |       |           |           |      |       |        |         |      |       |        |         | 95  |
| 100 |      |       |           |           |      |       |        |         |      |       |        |         | 100 |
| 105 |      |       |           |           |      |       |        |         |      |       |        |         | 105 |
| 110 | 62.0 | 298.6 | 150,400 b | 280,600 b |      |       |        |         |      |       |        |         | 110 |
| 115 | 58.0 | 295.4 | 141,500 b | 265,700 b |      |       |        |         |      |       |        |         | 115 |
| 120 | 53.7 | 291.6 | 133,200 b | 252,100 b |      |       |        |         |      |       |        |         | 120 |
| 125 | 49.3 | 287.2 | 125,600   | 239,700   |      |       |        |         |      |       |        |         | 125 |
| 130 | 44.4 | 282.0 | 118,500   | 228,200   |      |       |        |         |      |       |        |         | 130 |
| 135 | 39.1 | 275.7 | 111,900   | 217,600   | 56.7 | 288.2 | 90,100 | 200,800 |      |       |        |         | 135 |
| 140 | 32.9 | 268.1 | 105,600   | 207,800   | 52.5 | 284.2 | 85,000 | 191,800 |      |       |        |         | 140 |
| 145 | 25.3 | 257.9 | 99,600    | 198,500   | 47.9 | 279.6 | 80,100 | 183,400 |      |       |        |         | 145 |
| 150 | 13.4 | 240.8 | 93,400    | 189,600   | 42.9 | 274.1 | 75,600 | 175,500 |      |       |        |         | 150 |
| 155 |      |       |           |           | 37.4 | 267.5 | 71,200 | 168,100 | 55.0 | 278.9 | 53,000 | 154,200 | 155 |
| 160 |      |       |           |           | 30.9 | 259.2 | 67,000 | 161,100 | 50.6 | 274.7 | 49,700 | 147,900 | 160 |
| 165 |      |       |           |           | 22.5 | 247.9 | 62,800 | 154,400 | 45.9 | 269.7 | 46,500 | 141,900 | 165 |
| 170 |      |       |           |           |      |       |        |         | 40.7 | 263.8 | 43,400 | 136,200 | 170 |
| 175 |      |       |           |           |      |       |        |         | 34.8 | 256.6 | 40,500 | 130,900 | 175 |
| 180 |      |       |           |           |      |       |        |         | 27.7 | 247.3 | 37,500 | 125,700 | 180 |
| 185 |      |       |           |           |      |       |        |         | 17.8 | 233.4 | 34,400 | 120,600 | 185 |

# MLC650 VPC-MAX S-1

ASME B30.5



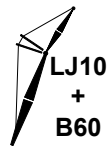
440,900 lb



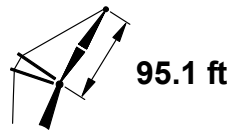
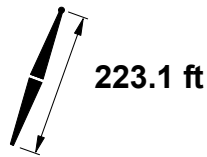
|     | 85°  |       |           |           | 83°  |       |           |           | 80°  |       |           |           |     |
|-----|------|-------|-----------|-----------|------|-------|-----------|-----------|------|-------|-----------|-----------|-----|
|     |      |       |           |           |      |       |           |           |      |       |           |           |     |
| ft  | °    | ft    | lb        | lb        | °    | ft    | lb        | lb        | °    | ft    | lb        | lb        | ft  |
| 60  | 72.8 | 322.3 | 435,400 c | 549,700 c |      |       |           |           |      |       |           |           | 60  |
| 65  | 69.6 | 320.4 | 395,400 c | 534,900 c |      |       |           |           |      |       |           |           | 65  |
| 70  | 66.3 | 318.1 | 361,500 b | 520,200 b | 71.4 | 320.6 | 342,100 c | 543,200 c |      |       |           |           | 70  |
| 75  | 62.9 | 315.4 | 332,400 b | 493,400 b | 68.1 | 318.5 | 314,400 b | 499,300 b |      |       |           |           | 75  |
| 80  | 59.4 | 312.3 | 307,100 b | 458,900 b | 64.8 | 316.0 | 290,400 b | 461,600 b |      |       |           |           | 80  |
| 85  | 55.7 | 308.8 | 284,900   | 429,200   | 61.3 | 313.2 | 269,300 b | 428,900 b | 69.2 | 317.3 | 246,000 b | 410,700 b | 85  |
| 90  | 51.8 | 304.8 | 265,200   | 403,800   | 57.7 | 309.9 | 250,700 b | 400,200 b | 65.8 | 314.9 | 228,800 b | 383,100 b | 90  |
| 95  | 47.7 | 300.1 | 247,700   | 382,100   | 54.0 | 306.1 | 234,000   | 374,900   | 62.4 | 312.2 | 213,500 b | 358,800 b | 95  |
| 100 | 43.3 | 294.7 | 231,900   | 362,400   | 50.0 | 301.8 | 219,100   | 352,300   | 58.9 | 309.1 | 199,700 b | 337,100 b | 100 |
| 105 | 38.4 | 288.4 | 217,600   | 341,500   | 45.8 | 296.9 | 205,600   | 332,000   | 55.2 | 305.5 | 187,300   | 317,700   | 105 |
| 110 | 32.9 | 280.7 | 204,500   | 322,700   | 41.1 | 291.1 | 193,300   | 313,700   | 51.3 | 301.3 | 176,000   | 300,200   | 110 |
| 115 | 26.2 | 270.8 | 192,400   | 305,500   | 36.0 | 284.2 | 181,900   | 297,000   | 47.1 | 296.6 | 165,700   | 284,200   | 115 |
| 120 | 16.9 | 256.2 | 181,000   | 289,700   | 30.1 | 275.6 | 171,500   | 281,800   | 42.6 | 291.1 | 156,200   | 269,700   | 120 |
| 125 |      |       |           |           | 22.6 | 264.2 | 161,600   | 267,800   | 37.7 | 284.6 | 147,400   | 256,400   | 125 |
| 130 |      |       |           |           | 9.5  | 243.2 | 151,700   | 254,600   | 32.0 | 276.6 | 139,200   | 244,100   | 130 |
| 135 |      |       |           |           |      |       |           |           | 25.2 | 266.3 | 131,400   | 232,700   | 135 |
| 140 |      |       |           |           |      |       |           |           | 15.1 | 250.4 | 123,700   | 222,000   | 140 |
| 145 |      |       |           |           |      |       |           |           |      |       |           |           | 145 |
| 150 |      |       |           |           |      |       |           |           |      |       |           |           | 150 |
| 155 |      |       |           |           |      |       |           |           |      |       |           |           | 155 |
| 160 |      |       |           |           |      |       |           |           |      |       |           |           | 160 |
| 165 |      |       |           |           |      |       |           |           |      |       |           |           | 165 |
| 170 |      |       |           |           |      |       |           |           |      |       |           |           | 170 |
| 175 |      |       |           |           |      |       |           |           |      |       |           |           | 175 |
| 180 |      |       |           |           |      |       |           |           |      |       |           |           | 180 |
| 185 |      |       |           |           |      |       |           |           |      |       |           |           | 185 |
| 190 |      |       |           |           |      |       |           |           |      |       |           |           | 190 |
| 195 |      |       |           |           |      |       |           |           |      |       |           |           | 195 |

# MLC650 VPC-MAX S-1

ASME B30.5



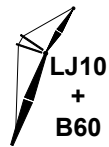
440,900 lb



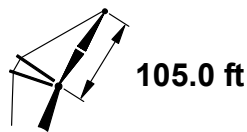
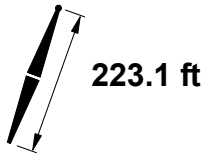
|     | 75°  |       |           |           | 70°  |       |        |         | 65°  |       |        |         |     |
|-----|------|-------|-----------|-----------|------|-------|--------|---------|------|-------|--------|---------|-----|
|     |      |       |           |           |      |       |        |         |      |       |        |         |     |
| ft  | °    | ft    | lb        | lb        | °    | ft    | lb     | lb      | °    | ft    | lb     | lb      | ft  |
| 60  |      |       |           |           |      |       |        |         |      |       |        |         | 60  |
| 65  |      |       |           |           |      |       |        |         |      |       |        |         | 65  |
| 70  |      |       |           |           |      |       |        |         |      |       |        |         | 70  |
| 75  |      |       |           |           |      |       |        |         |      |       |        |         | 75  |
| 80  |      |       |           |           |      |       |        |         |      |       |        |         | 80  |
| 85  |      |       |           |           |      |       |        |         |      |       |        |         | 85  |
| 90  |      |       |           |           |      |       |        |         |      |       |        |         | 90  |
| 95  |      |       |           |           |      |       |        |         |      |       |        |         | 95  |
| 100 |      |       |           |           |      |       |        |         |      |       |        |         | 100 |
| 105 |      |       |           |           |      |       |        |         |      |       |        |         | 105 |
| 110 |      |       |           |           |      |       |        |         |      |       |        |         | 110 |
| 115 | 61.7 | 307.1 | 138,300 b | 263,000 b |      |       |        |         |      |       |        |         | 115 |
| 120 | 58.1 | 303.9 | 130,200   | 249,600   |      |       |        |         |      |       |        |         | 120 |
| 125 | 54.4 | 300.2 | 122,700   | 237,200   |      |       |        |         |      |       |        |         | 125 |
| 130 | 50.4 | 295.9 | 115,800   | 225,900   |      |       |        |         |      |       |        |         | 130 |
| 135 | 46.2 | 291.1 | 109,300   | 215,400   |      |       |        |         |      |       |        |         | 135 |
| 140 | 41.7 | 285.4 | 103,300   | 205,700   | 57.0 | 296.7 | 81,700 | 189,200 |      |       |        |         | 140 |
| 145 | 36.6 | 278.6 | 97,600    | 196,700   | 53.2 | 292.9 | 77,000 | 180,800 |      |       |        |         | 145 |
| 150 | 30.8 | 270.3 | 92,100    | 188,200   | 49.2 | 288.4 | 72,600 | 173,100 |      |       |        |         | 150 |
| 155 | 23.5 | 259.3 | 86,900    | 180,200   | 44.9 | 283.3 | 68,400 | 165,800 |      |       |        |         | 155 |
| 160 | 11.9 | 240.7 | 81,400    | 172,400   | 40.2 | 277.4 | 64,400 | 159,000 |      |       |        |         | 160 |
| 165 |      |       |           |           | 35.0 | 270.2 | 60,600 | 152,600 | 51.6 | 283.4 | 43,300 | 139,300 | 165 |
| 170 |      |       |           |           | 28.8 | 261.3 | 56,900 | 146,500 | 47.5 | 278.7 | 40,400 | 133,800 | 170 |
| 175 |      |       |           |           | 20.8 | 249.0 | 53,100 | 140,600 | 43.0 | 273.2 | 37,600 | 128,600 | 175 |
| 180 |      |       |           |           |      |       |        |         | 38.1 | 266.8 | 34,900 | 123,600 | 180 |
| 185 |      |       |           |           |      |       |        |         | 32.6 | 259.0 | 32,200 | 118,800 | 185 |
| 190 |      |       |           |           |      |       |        |         | 25.8 | 249.0 | 29,600 | 114,300 | 190 |
| 195 |      |       |           |           |      |       |        |         | 16.3 | 234.0 | 26,800 | 109,700 | 195 |

# MLC650 VPC-MAX S-1

ASME B30.5



440,900 lb



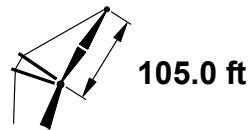
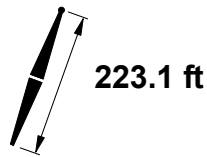
|     | 85°  |       |           |           | 83°  |       |           |           | 80°  |       |           |           |     |
|-----|------|-------|-----------|-----------|------|-------|-----------|-----------|------|-------|-----------|-----------|-----|
|     |      |       |           |           |      |       |           |           |      |       |           |           |     |
| ft  | °    | ft    | lb        | lb        | °    | ft    | lb        | lb        | °    | ft    | lb        | lb        | ft  |
| 60  | 74.5 | 332.7 | 468,400 c | 509,200 c |      |       |           |           |      |       |           |           | 60  |
| 65  | 71.6 | 331.0 | 425,600 c | 507,700 c |      |       |           |           |      |       |           |           | 65  |
| 70  | 68.7 | 328.9 | 389,400 b | 499,700 b |      |       |           |           |      |       |           |           | 70  |
| 75  | 65.7 | 326.6 | 358,200 b | 486,500 b | 70.3 | 329.2 | 339,900 b | 497,200 b |      |       |           |           | 75  |
| 80  | 62.6 | 323.9 | 331,200 b | 456,100 b | 67.3 | 327.0 | 314,200 b | 459,700 b |      |       |           |           | 80  |
| 85  | 59.4 | 320.8 | 307,500   | 426,000   | 64.3 | 324.5 | 291,600 b | 427,200 b |      |       |           |           | 85  |
| 90  | 56.0 | 317.4 | 286,600   | 399,900   | 61.1 | 321.6 | 271,700 b | 398,600 b | 68.3 | 325.8 | 249,400 b | 381,300 b | 90  |
| 95  | 52.6 | 313.4 | 267,900   | 377,300   | 57.9 | 318.4 | 253,900   | 373,400   | 65.2 | 323.4 | 232,900 b | 357,100 b | 95  |
| 100 | 48.9 | 309.0 | 251,100   | 357,700   | 54.5 | 314.7 | 237,900   | 350,900   | 62.1 | 320.6 | 218,100 b | 335,500 b | 100 |
| 105 | 45.0 | 303.9 | 236,000   | 340,400   | 51.0 | 310.6 | 223,500   | 330,700   | 58.9 | 317.5 | 204,800   | 316,200   | 105 |
| 110 | 40.9 | 298.1 | 222,200   | 321,700   | 47.2 | 305.9 | 210,400   | 312,500   | 55.6 | 314.0 | 192,700   | 298,700   | 110 |
| 115 | 36.2 | 291.2 | 209,600   | 304,700   | 43.2 | 300.5 | 198,500   | 296,000   | 52.1 | 310.0 | 181,700   | 282,900   | 115 |
| 120 | 31.0 | 282.9 | 197,900   | 289,200   | 38.8 | 294.2 | 187,500   | 280,900   | 48.4 | 305.5 | 171,500   | 268,500   | 120 |
| 125 | 24.6 | 272.4 | 187,100   | 274,900   | 34.0 | 286.8 | 177,300   | 267,100   | 44.5 | 300.3 | 162,200   | 255,300   | 125 |
| 130 | 15.6 | 256.7 | 176,700   | 261,700   | 28.3 | 277.6 | 167,800   | 254,400   | 40.2 | 294.4 | 153,500   | 243,200   | 130 |
| 135 |      |       |           |           | 21.1 | 265.4 | 158,800   | 242,600   | 35.5 | 287.3 | 145,500   | 232,000   | 135 |
| 140 |      |       |           |           | 8.1  | 242.2 | 149,700   | 231,300   | 30.2 | 278.8 | 137,900   | 221,500   | 140 |
| 145 |      |       |           |           |      |       |           |           | 23.6 | 267.8 | 130,700   | 211,800   | 145 |
| 150 |      |       |           |           |      |       |           |           | 13.8 | 250.7 | 123,500   | 202,500   | 150 |
| 155 |      |       |           |           |      |       |           |           |      |       |           |           | 155 |
| 160 |      |       |           |           |      |       |           |           |      |       |           |           | 160 |
| 165 |      |       |           |           |      |       |           |           |      |       |           |           | 165 |
| 170 |      |       |           |           |      |       |           |           |      |       |           |           | 170 |
| 175 |      |       |           |           |      |       |           |           |      |       |           |           | 175 |
| 180 |      |       |           |           |      |       |           |           |      |       |           |           | 180 |
| 185 |      |       |           |           |      |       |           |           |      |       |           |           | 185 |
| 190 |      |       |           |           |      |       |           |           |      |       |           |           | 190 |
| 195 |      |       |           |           |      |       |           |           |      |       |           |           | 195 |
| 200 |      |       |           |           |      |       |           |           |      |       |           |           | 200 |
| 205 |      |       |           |           |      |       |           |           |      |       |           |           | 205 |

# MLC650 VPC-MAX S-1

ASME B30.5



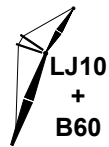
440,900 lb



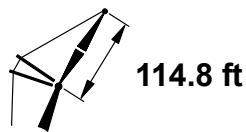
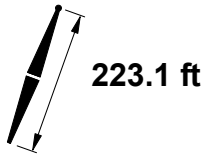
|     | 75°  |       |         |         | 70°  |       |        |         | 65°  |       |        |         |     |
|-----|------|-------|---------|---------|------|-------|--------|---------|------|-------|--------|---------|-----|
|     |      |       |         |         |      |       |        |         |      |       |        |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb     | lb      | °    | ft    | lb     | lb      | ft  |
| 60  |      |       |         |         |      |       |        |         |      |       |        |         | 60  |
| 65  |      |       |         |         |      |       |        |         |      |       |        |         | 65  |
| 70  |      |       |         |         |      |       |        |         |      |       |        |         | 70  |
| 75  |      |       |         |         |      |       |        |         |      |       |        |         | 75  |
| 80  |      |       |         |         |      |       |        |         |      |       |        |         | 80  |
| 85  |      |       |         |         |      |       |        |         |      |       |        |         | 85  |
| 90  |      |       |         |         |      |       |        |         |      |       |        |         | 90  |
| 95  |      |       |         |         |      |       |        |         |      |       |        |         | 95  |
| 100 |      |       |         |         |      |       |        |         |      |       |        |         | 100 |
| 105 |      |       |         |         |      |       |        |         |      |       |        |         | 105 |
| 110 |      |       |         |         |      |       |        |         |      |       |        |         | 110 |
| 115 | 64.6 | 318.4 | 153,600 | 261,400 |      |       |        |         |      |       |        |         | 115 |
| 120 | 61.5 | 315.6 | 144,900 | 248,000 |      |       |        |         |      |       |        |         | 120 |
| 125 | 58.2 | 312.4 | 136,800 | 235,700 |      |       |        |         |      |       |        |         | 125 |
| 130 | 54.9 | 308.8 | 129,300 | 224,500 |      |       |        |         |      |       |        |         | 130 |
| 135 | 51.4 | 304.7 | 122,400 | 214,100 |      |       |        |         |      |       |        |         | 135 |
| 140 | 47.6 | 300.0 | 115,900 | 204,500 |      |       |        |         |      |       |        |         | 140 |
| 145 | 43.7 | 294.7 | 109,900 | 195,500 | 57.3 | 305.2 | 88,700 | 179,300 |      |       |        |         | 145 |
| 150 | 39.3 | 288.5 | 104,200 | 187,200 | 53.9 | 301.5 | 83,900 | 171,600 |      |       |        |         | 150 |
| 155 | 34.5 | 281.3 | 98,800  | 179,400 | 50.3 | 297.2 | 79,300 | 164,500 |      |       |        |         | 155 |
| 160 | 28.9 | 272.3 | 93,600  | 172,000 | 46.5 | 292.4 | 75,100 | 157,700 |      |       |        |         | 160 |
| 165 | 22.0 | 260.6 | 88,600  | 165,100 | 42.4 | 286.8 | 71,000 | 151,400 |      |       |        |         | 165 |
| 170 | 10.6 | 240.3 | 83,400  | 158,200 | 38.0 | 280.4 | 67,200 | 145,500 | 52.4 | 292.0 | 50,000 | 132,400 | 170 |
| 175 |      |       |         |         | 33.0 | 272.7 | 63,500 | 139,800 | 48.7 | 287.6 | 46,900 | 127,200 | 175 |
| 180 |      |       |         |         | 27.1 | 263.1 | 59,800 | 134,400 | 44.8 | 282.4 | 44,100 | 122,300 | 180 |
| 185 |      |       |         |         | 19.4 | 250.0 | 56,200 | 129,200 | 40.6 | 276.6 | 41,300 | 117,700 | 185 |
| 190 |      |       |         |         |      |       |        |         | 36.0 | 269.6 | 38,600 | 113,300 | 190 |
| 195 |      |       |         |         |      |       |        |         | 30.7 | 261.3 | 36,000 | 109,000 | 195 |
| 200 |      |       |         |         |      |       |        |         | 24.2 | 250.6 | 33,300 | 104,900 | 200 |
| 205 |      |       |         |         |      |       |        |         | 15.0 | 234.4 | 30,600 | 100,900 | 205 |

# MLC650 VPC-MAX S-1

ASME B30.5



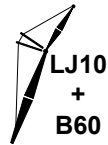
440,900 lb



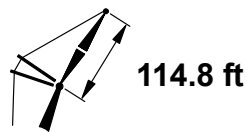
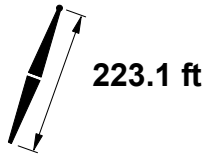
|     | 85°  |       |           |           | 83°  |       |           |           | 80°  |       |         |         |     |
|-----|------|-------|-----------|-----------|------|-------|-----------|-----------|------|-------|---------|---------|-----|
|     |      |       |           |           |      |       |           |           |      |       |         |         |     |
| ft  | °    | ft    | lb        | lb        | °    | ft    | lb        | lb        | °    | ft    | lb      | lb      | ft  |
| 65  | 73.3 | 341.4 | 422,900 b | 470,300 b |      |       |           |           |      |       |         |         | 65  |
| 70  | 70.6 | 339.6 | 386,700 b | 468,100 b |      |       |           |           |      |       |         |         | 70  |
| 75  | 67.9 | 337.5 | 355,700 b | 464,400 b | 72.1 | 339.7 | 337,000 b | 472,900 b |      |       |         |         | 75  |
| 80  | 65.1 | 335.1 | 328,700 b | 453,200 b | 69.4 | 337.7 | 311,400 b | 456,800 b |      |       |         |         | 80  |
| 85  | 62.3 | 332.3 | 305,100   | 424,500   | 66.7 | 335.5 | 288,900 b | 424,400 b |      |       |         |         | 85  |
| 90  | 59.4 | 329.3 | 284,200   | 398,000   | 63.9 | 333.0 | 269,000   | 396,000   |      |       |         |         | 90  |
| 95  | 56.4 | 325.9 | 265,600   | 374,800   | 61.0 | 330.1 | 251,300   | 370,800   | 67.5 | 334.3 | 229,900 | 354,300 | 95  |
| 100 | 53.2 | 322.0 | 248,900   | 354,400   | 58.0 | 326.9 | 235,400   | 348,500   | 64.7 | 331.9 | 215,200 | 332,800 | 100 |
| 105 | 49.9 | 317.8 | 233,900   | 336,700   | 55.0 | 323.3 | 221,100   | 328,400   | 61.9 | 329.1 | 201,900 | 313,600 | 105 |
| 110 | 46.5 | 312.9 | 220,200   | 319,700   | 51.8 | 319.3 | 208,100   | 310,300   | 59.0 | 326.0 | 189,900 | 296,200 | 110 |
| 115 | 42.8 | 307.5 | 207,700   | 302,800   | 48.4 | 314.7 | 196,200   | 293,900   | 55.9 | 322.5 | 178,900 | 280,500 | 115 |
| 120 | 38.8 | 301.2 | 196,200   | 287,400   | 44.8 | 309.6 | 185,300   | 278,900   | 52.8 | 318.7 | 168,900 | 266,200 | 120 |
| 125 | 34.3 | 293.9 | 185,600   | 273,300   | 41.0 | 303.8 | 175,300   | 265,200   | 49.5 | 314.3 | 159,700 | 253,100 | 125 |
| 130 | 29.3 | 285.1 | 175,800   | 260,300   | 36.8 | 297.1 | 166,000   | 252,600   | 46.0 | 309.4 | 151,100 | 241,000 | 130 |
| 135 | 23.2 | 273.8 | 166,500   | 248,200   | 32.2 | 289.2 | 157,300   | 240,900   | 42.2 | 303.8 | 143,200 | 229,900 | 135 |
| 140 | 14.4 | 257.0 | 157,600   | 236,900   | 26.7 | 279.5 | 149,200   | 230,100   | 38.2 | 297.4 | 135,800 | 219,600 | 140 |
| 145 |      |       |           |           | 19.8 | 266.5 | 141,400   | 220,000   | 33.7 | 289.9 | 128,800 | 210,000 | 145 |
| 150 |      |       |           |           | 6.7  | 240.8 | 133,400   | 210,200   | 28.5 | 280.9 | 122,300 | 201,000 | 150 |
| 155 |      |       |           |           |      |       |           |           | 22.2 | 269.2 | 116,000 | 192,600 | 155 |
| 160 |      |       |           |           |      |       |           |           | 12.7 | 250.8 | 109,700 | 184,500 | 160 |
| 165 |      |       |           |           |      |       |           |           |      |       |         |         | 165 |
| 170 |      |       |           |           |      |       |           |           |      |       |         |         | 170 |
| 175 |      |       |           |           |      |       |           |           |      |       |         |         | 175 |
| 180 |      |       |           |           |      |       |           |           |      |       |         |         | 180 |
| 185 |      |       |           |           |      |       |           |           |      |       |         |         | 185 |
| 190 |      |       |           |           |      |       |           |           |      |       |         |         | 190 |
| 195 |      |       |           |           |      |       |           |           |      |       |         |         | 195 |
| 200 |      |       |           |           |      |       |           |           |      |       |         |         | 200 |
| 205 |      |       |           |           |      |       |           |           |      |       |         |         | 205 |
| 210 |      |       |           |           |      |       |           |           |      |       |         |         | 210 |
| 215 |      |       |           |           |      |       |           |           |      |       |         |         | 215 |

# MLC650 VPC-MAX S-1

ASME B30.5



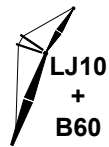
440,900 lb



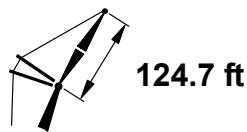
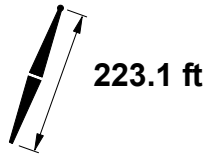
|     | 75°  |       |         |         | 70°  |       |        |         | 65°  |       |        |         |     |
|-----|------|-------|---------|---------|------|-------|--------|---------|------|-------|--------|---------|-----|
|     |      |       |         |         |      |       |        |         |      |       |        |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb     | lb      | °    | ft    | lb     | lb      | ft  |
| 65  |      |       |         |         |      |       |        |         |      |       |        |         | 65  |
| 70  |      |       |         |         |      |       |        |         |      |       |        |         | 70  |
| 75  |      |       |         |         |      |       |        |         |      |       |        |         | 75  |
| 80  |      |       |         |         |      |       |        |         |      |       |        |         | 80  |
| 85  |      |       |         |         |      |       |        |         |      |       |        |         | 85  |
| 90  |      |       |         |         |      |       |        |         |      |       |        |         | 90  |
| 95  |      |       |         |         |      |       |        |         |      |       |        |         | 95  |
| 100 |      |       |         |         |      |       |        |         |      |       |        |         | 100 |
| 105 |      |       |         |         |      |       |        |         |      |       |        |         | 105 |
| 110 |      |       |         |         |      |       |        |         |      |       |        |         | 110 |
| 115 |      |       |         |         |      |       |        |         |      |       |        |         | 115 |
| 120 | 64.2 | 326.9 | 141,600 | 245,300 |      |       |        |         |      |       |        |         | 120 |
| 125 | 61.3 | 324.0 | 133,600 | 233,100 |      |       |        |         |      |       |        |         | 125 |
| 130 | 58.4 | 320.9 | 126,200 | 221,900 |      |       |        |         |      |       |        |         | 130 |
| 135 | 55.3 | 317.3 | 119,400 | 211,600 |      |       |        |         |      |       |        |         | 135 |
| 140 | 52.1 | 313.3 | 113,000 | 202,100 |      |       |        |         |      |       |        |         | 140 |
| 145 | 48.8 | 308.9 | 107,100 | 193,200 |      |       |        |         |      |       |        |         | 145 |
| 150 | 45.2 | 303.8 | 101,500 | 185,000 | 57.5 | 313.7 | 80,600 | 169,000 |      |       |        |         | 150 |
| 155 | 41.4 | 298.1 | 96,200  | 177,300 | 54.4 | 310.0 | 76,200 | 161,900 |      |       |        |         | 155 |
| 160 | 37.3 | 291.5 | 91,300  | 170,000 | 51.1 | 305.9 | 72,000 | 155,300 |      |       |        |         | 160 |
| 165 | 32.7 | 283.7 | 86,500  | 163,200 | 47.7 | 301.3 | 68,000 | 149,000 |      |       |        |         | 165 |
| 170 | 27.4 | 274.3 | 82,000  | 156,800 | 44.1 | 296.1 | 64,300 | 143,100 |      |       |        |         | 170 |
| 175 | 20.6 | 261.8 | 77,600  | 150,600 | 40.3 | 290.1 | 60,700 | 137,600 | 53.0 | 300.7 | 43,600 | 124,600 | 175 |
| 180 | 9.4  | 239.7 | 72,800  | 144,500 | 36.0 | 283.2 | 57,300 | 132,300 | 49.8 | 296.3 | 40,800 | 119,800 | 180 |
| 185 |      |       |         |         | 31.2 | 275.0 | 54,000 | 127,300 | 46.3 | 291.5 | 38,200 | 115,200 | 185 |
| 190 |      |       |         |         | 25.6 | 264.9 | 50,800 | 122,500 | 42.6 | 286.0 | 35,600 | 110,900 | 190 |
| 195 |      |       |         |         | 18.2 | 250.9 | 47,500 | 117,900 | 38.5 | 279.6 | 33,100 | 106,800 | 195 |
| 200 |      |       |         |         |      |       |        |         | 34.1 | 272.3 | 30,700 | 102,800 | 200 |
| 205 |      |       |         |         |      |       |        |         | 29.0 | 263.4 | 28,400 | 99,100  | 205 |
| 210 |      |       |         |         |      |       |        |         | 22.8 | 252.0 | 26,000 | 95,400  | 210 |
| 215 |      |       |         |         |      |       |        |         | 13.8 | 234.6 | 23,500 | 91,700  | 215 |

# MLC650 VPC-MAX S-1

ASME B30.5



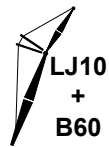
440,900 lb



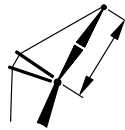
|     | 85°  |       |           |           | 83°  |       |           |           | 80°  |       |         |         |     |
|-----|------|-------|-----------|-----------|------|-------|-----------|-----------|------|-------|---------|---------|-----|
|     |      |       |           |           |      |       |           |           |      |       |         |         |     |
| ft  | °    | ft    | lb        | lb        | °    | ft    | lb        | lb        | °    | ft    | lb      | lb      | ft  |
| 65  | 74.6 | 351.8 | 423,100 b | 437,500 b |      |       |           |           |      |       |         |         | 65  |
| 70  | 72.2 | 350.1 | 386,900 b | 437,000 b |      |       |           |           |      |       |         |         | 70  |
| 75  | 69.7 | 348.2 | 355,900 b | 434,700 b |      |       |           |           |      |       |         |         | 75  |
| 80  | 67.2 | 346.0 | 328,900 b | 431,100 b | 71.1 | 348.3 | 311,500 b | 440,000 b |      |       |         |         | 80  |
| 85  | 64.7 | 343.5 | 305,400   | 423,400   | 68.6 | 346.3 | 289,000 b | 423,700 b |      |       |         |         | 85  |
| 90  | 62.1 | 340.8 | 284,500   | 396,800   | 66.1 | 344.0 | 269,200   | 395,400   |      |       |         |         | 90  |
| 95  | 59.4 | 337.8 | 266,000   | 373,300   | 63.5 | 341.4 | 251,500   | 370,400   | 69.4 | 345.1 | 229,900 | 353,800 | 95  |
| 100 | 56.6 | 334.4 | 249,300   | 352,600   | 60.9 | 338.6 | 235,700   | 348,100   | 66.9 | 342.8 | 215,300 | 332,400 | 100 |
| 105 | 53.7 | 330.6 | 234,400   | 334,300   | 58.1 | 335.4 | 221,400   | 328,100   | 64.3 | 340.4 | 202,100 | 313,200 | 105 |
| 110 | 50.8 | 326.5 | 220,700   | 318,200   | 55.3 | 331.8 | 208,500   | 310,100   | 61.7 | 337.6 | 190,100 | 296,000 | 110 |
| 115 | 47.6 | 321.8 | 208,300   | 302,800   | 52.4 | 327.9 | 196,700   | 293,700   | 59.0 | 334.5 | 179,200 | 280,300 | 115 |
| 120 | 44.3 | 316.6 | 197,000   | 287,400   | 49.4 | 323.5 | 185,900   | 278,900   | 56.2 | 331.1 | 169,200 | 266,000 | 120 |
| 125 | 40.8 | 310.8 | 186,500   | 273,400   | 46.2 | 318.7 | 175,900   | 265,200   | 53.3 | 327.3 | 160,000 | 253,000 | 125 |
| 130 | 36.9 | 304.1 | 176,800   | 260,500   | 42.7 | 313.2 | 166,700   | 252,700   | 50.3 | 323.0 | 151,500 | 241,000 | 130 |
| 135 | 32.7 | 296.3 | 167,800   | 248,600   | 39.1 | 307.0 | 158,200   | 241,100   | 47.2 | 318.3 | 143,700 | 229,900 | 135 |
| 140 | 27.8 | 287.0 | 159,400   | 237,600   | 35.1 | 299.9 | 150,200   | 230,400   | 43.8 | 313.1 | 136,400 | 219,700 | 140 |
| 145 | 21.9 | 275.2 | 151,400   | 227,300   | 30.6 | 291.5 | 142,800   | 220,500   | 40.3 | 307.1 | 129,500 | 210,200 | 145 |
| 150 | 13.4 | 257.3 | 143,600   | 217,500   | 25.4 | 281.2 | 135,700   | 211,200   | 36.4 | 300.3 | 123,100 | 201,300 | 150 |
| 155 |      |       |           |           | 18.6 | 267.4 | 128,900   | 202,400   | 32.1 | 292.3 | 117,100 | 193,100 | 155 |
| 160 |      |       |           |           | 5.2  | 238.6 | 121,700   | 193,800   | 27.1 | 282.8 | 111,300 | 185,300 | 160 |
| 165 |      |       |           |           |      |       |           |           | 21.0 | 270.4 | 105,800 | 177,900 | 165 |
| 170 |      |       |           |           |      |       |           |           | 11.6 | 250.7 | 100,200 | 170,800 | 170 |
| 175 |      |       |           |           |      |       |           |           |      |       |         |         | 175 |
| 180 |      |       |           |           |      |       |           |           |      |       |         |         | 180 |
| 185 |      |       |           |           |      |       |           |           |      |       |         |         | 185 |
| 190 |      |       |           |           |      |       |           |           |      |       |         |         | 190 |
| 195 |      |       |           |           |      |       |           |           |      |       |         |         | 195 |
| 200 |      |       |           |           |      |       |           |           |      |       |         |         | 200 |
| 205 |      |       |           |           |      |       |           |           |      |       |         |         | 205 |
| 210 |      |       |           |           |      |       |           |           |      |       |         |         | 210 |
| 215 |      |       |           |           |      |       |           |           |      |       |         |         | 215 |
| 220 |      |       |           |           |      |       |           |           |      |       |         |         | 220 |
| 225 |      |       |           |           |      |       |           |           |      |       |         |         | 225 |

# MLC650 VPC-MAX S-1

ASME B30.5



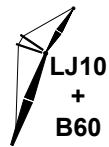
440,900 lb



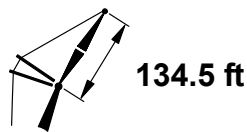
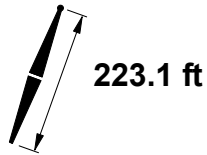
|     | 75°  |       |         |         | 70°  |       |        |         | 65°  |       |        |         |     |
|-----|------|-------|---------|---------|------|-------|--------|---------|------|-------|--------|---------|-----|
|     | ft   | °     | ft      | lb      | lb   | ft    | lb     | lb      | ft   | lb    | lb     | ft      |     |
| 65  |      |       |         |         |      |       |        |         |      |       |        |         | 65  |
| 70  |      |       |         |         |      |       |        |         |      |       |        |         | 70  |
| 75  |      |       |         |         |      |       |        |         |      |       |        |         | 75  |
| 80  |      |       |         |         |      |       |        |         |      |       |        |         | 80  |
| 85  |      |       |         |         |      |       |        |         |      |       |        |         | 85  |
| 90  |      |       |         |         |      |       |        |         |      |       |        |         | 90  |
| 95  |      |       |         |         |      |       |        |         |      |       |        |         | 95  |
| 100 |      |       |         |         |      |       |        |         |      |       |        |         | 100 |
| 105 |      |       |         |         |      |       |        |         |      |       |        |         | 105 |
| 110 |      |       |         |         |      |       |        |         |      |       |        |         | 110 |
| 115 |      |       |         |         |      |       |        |         |      |       |        |         | 115 |
| 120 |      |       |         |         |      |       |        |         |      |       |        |         | 120 |
| 125 | 63.8 | 335.3 | 133,700 | 232,800 |      |       |        |         |      |       |        |         | 125 |
| 130 | 61.2 | 332.5 | 126,300 | 221,700 |      |       |        |         |      |       |        |         | 130 |
| 135 | 58.4 | 329.3 | 119,500 | 211,500 |      |       |        |         |      |       |        |         | 135 |
| 140 | 55.6 | 325.8 | 113,200 | 202,000 |      |       |        |         |      |       |        |         | 140 |
| 145 | 52.7 | 322.0 | 107,300 | 193,200 |      |       |        |         |      |       |        |         | 145 |
| 150 | 49.7 | 317.6 | 101,800 | 185,000 |      |       |        |         |      |       |        |         | 150 |
| 155 | 46.5 | 312.8 | 96,600  | 177,300 | 57.6 | 322.2 | 76,300 | 161,800 |      |       |        |         | 155 |
| 160 | 43.1 | 307.4 | 91,800  | 170,200 | 54.8 | 318.6 | 72,100 | 155,200 |      |       |        |         | 160 |
| 165 | 39.5 | 301.3 | 87,200  | 163,400 | 51.9 | 314.6 | 68,200 | 149,000 |      |       |        |         | 165 |
| 170 | 35.5 | 294.3 | 82,800  | 157,100 | 48.8 | 310.1 | 64,600 | 143,200 |      |       |        |         | 170 |
| 175 | 31.1 | 286.1 | 78,600  | 151,100 | 45.5 | 305.2 | 61,100 | 137,700 |      |       |        |         | 175 |
| 180 | 26.0 | 276.0 | 74,600  | 145,400 | 42.1 | 299.6 | 57,700 | 132,500 | 53.6 | 309.3 | 40,900 | 119,800 | 180 |
| 185 | 19.5 | 262.8 | 70,600  | 139,900 | 38.4 | 293.2 | 54,600 | 127,600 | 50.6 | 305.1 | 38,300 | 115,300 | 185 |
| 190 | 8.2  | 238.9 | 66,300  | 134,500 | 34.3 | 285.9 | 51,500 | 122,900 | 47.5 | 300.4 | 35,800 | 111,000 | 190 |
| 195 |      |       |         |         | 29.7 | 277.2 | 48,600 | 118,400 | 44.1 | 295.2 | 33,400 | 106,900 | 195 |
| 200 |      |       |         |         | 24.2 | 266.4 | 45,600 | 114,100 | 40.6 | 289.3 | 31,100 | 103,000 | 200 |
| 205 |      |       |         |         | 17.0 | 251.6 | 42,700 | 109,900 | 36.7 | 282.6 | 28,900 | 99,300  | 205 |
| 210 |      |       |         |         |      |       |        |         | 32.5 | 274.7 | 26,700 | 95,800  | 210 |
| 215 |      |       |         |         |      |       |        |         | 27.6 | 265.3 | 24,600 | 92,400  | 215 |
| 220 |      |       |         |         |      |       |        |         | 21.6 | 253.3 | 22,500 | 89,000  | 220 |
| 225 |      |       |         |         |      |       |        |         | 12.8 | 234.8 | 20,100 | 85,700  | 225 |

# MLC650 VPC-MAX S-1

ASME B30.5



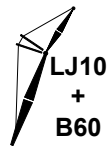
440,900 lb



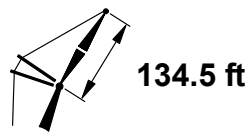
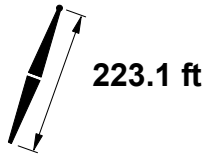
|     | 85°  |       |           |           | 83°  |       |           |           | 80°  |       |         |         |     |
|-----|------|-------|-----------|-----------|------|-------|-----------|-----------|------|-------|---------|---------|-----|
|     |      |       |           |           |      |       |           |           |      |       |         |         |     |
| ft  | °    | ft    | lb        | lb        | °    | ft    | lb        | lb        | °    | ft    | lb      | lb      | ft  |
| 70  | 73.6 | 360.5 | 384,300 b | 406,300 b |      |       |           |           |      |       |         |         | 70  |
| 75  | 71.3 | 358.7 | 353,300 b | 405,300 b |      |       |           |           |      |       |         |         | 75  |
| 80  | 69.0 | 356.7 | 326,400   | 403,000   | 72.6 | 358.8 | 308,600 b | 407,500 b |      |       |         |         | 80  |
| 85  | 66.7 | 354.5 | 302,900   | 399,900   | 70.3 | 356.9 | 286,200   | 407,500   |      |       |         |         | 85  |
| 90  | 64.3 | 352.0 | 282,100   | 394,400   | 68.0 | 354.8 | 266,500   | 392,800   |      |       |         |         | 90  |
| 95  | 61.9 | 349.3 | 263,600   | 370,800   | 65.6 | 352.5 | 248,800   | 367,900   |      |       |         |         | 95  |
| 100 | 59.4 | 346.3 | 247,000   | 350,000   | 63.2 | 349.9 | 233,100   | 345,700   | 68.7 | 353.6 | 212,300 | 329,700 | 100 |
| 105 | 56.8 | 342.9 | 232,000   | 331,400   | 60.8 | 347.0 | 218,800   | 325,800   | 66.4 | 351.4 | 199,100 | 310,600 | 105 |
| 110 | 54.2 | 339.2 | 218,500   | 315,000   | 58.2 | 343.9 | 206,000   | 307,800   | 64.0 | 348.8 | 187,200 | 293,400 | 110 |
| 115 | 51.4 | 335.2 | 206,100   | 300,300   | 55.7 | 340.4 | 194,200   | 291,500   | 61.5 | 346.1 | 176,400 | 277,900 | 115 |
| 120 | 48.6 | 330.7 | 194,800   | 285,400   | 53.0 | 336.5 | 183,500   | 276,700   | 59.0 | 343.0 | 166,400 | 263,700 | 120 |
| 125 | 45.6 | 325.7 | 184,400   | 271,500   | 50.2 | 332.3 | 173,600   | 263,100   | 56.5 | 339.6 | 157,300 | 250,700 | 125 |
| 130 | 42.4 | 320.2 | 174,800   | 258,700   | 47.3 | 327.6 | 164,500   | 250,700   | 53.8 | 335.9 | 148,900 | 238,700 | 130 |
| 135 | 39.0 | 314.0 | 165,900   | 246,800   | 44.2 | 322.4 | 156,000   | 239,200   | 51.1 | 331.7 | 141,100 | 227,800 | 135 |
| 140 | 35.3 | 306.9 | 157,600   | 235,900   | 40.9 | 316.6 | 148,100   | 228,500   | 48.2 | 327.2 | 133,900 | 217,600 | 140 |
| 145 | 31.2 | 298.7 | 149,900   | 225,700   | 37.4 | 310.0 | 140,800   | 218,700   | 45.2 | 322.2 | 127,100 | 208,100 | 145 |
| 150 | 26.5 | 288.9 | 142,500   | 216,200   | 33.5 | 302.4 | 133,900   | 209,400   | 42.0 | 316.5 | 120,800 | 199,300 | 150 |
| 155 | 20.8 | 276.4 | 135,500   | 207,200   | 29.2 | 293.6 | 127,400   | 200,800   | 38.5 | 310.2 | 114,900 | 191,100 | 155 |
| 160 | 12.4 | 257.4 | 128,700   | 198,800   | 24.1 | 282.8 | 121,200   | 192,700   | 34.8 | 303.0 | 109,300 | 183,400 | 160 |
| 165 |      |       |           |           | 17.6 | 268.2 | 115,200   | 185,100   | 30.6 | 294.6 | 103,900 | 176,200 | 165 |
| 170 |      |       |           |           | 2.9  | 234.3 | 108,600   | 177,400   | 25.8 | 284.5 | 98,900  | 169,400 | 170 |
| 175 |      |       |           |           |      |       |           |           | 19.9 | 271.5 | 93,900  | 162,900 | 175 |
| 180 |      |       |           |           |      |       |           |           | 10.7 | 250.5 | 88,900  | 156,500 | 180 |
| 185 |      |       |           |           |      |       |           |           |      |       |         |         | 185 |
| 190 |      |       |           |           |      |       |           |           |      |       |         |         | 190 |
| 195 |      |       |           |           |      |       |           |           |      |       |         |         | 195 |
| 200 |      |       |           |           |      |       |           |           |      |       |         |         | 200 |
| 205 |      |       |           |           |      |       |           |           |      |       |         |         | 205 |
| 210 |      |       |           |           |      |       |           |           |      |       |         |         | 210 |
| 215 |      |       |           |           |      |       |           |           |      |       |         |         | 215 |
| 220 |      |       |           |           |      |       |           |           |      |       |         |         | 220 |
| 225 |      |       |           |           |      |       |           |           |      |       |         |         | 225 |
| 230 |      |       |           |           |      |       |           |           |      |       |         |         | 230 |

# MLC650 VPC-MAX S-1

ASME B30.5



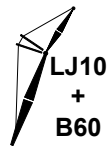
440,900 lb



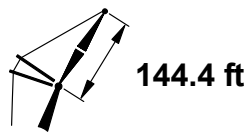
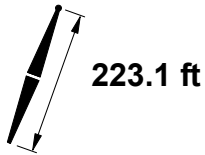
|     | 75°  |       |         |         | 70°  |       |        |         | 65°  |       |        |         |     |
|-----|------|-------|---------|---------|------|-------|--------|---------|------|-------|--------|---------|-----|
|     | ft   | °     | ft      | lb      | lb   | ft    | lb     | lb      | ft   | lb    | lb     | ft      |     |
| 70  |      |       |         |         |      |       |        |         |      |       |        |         | 70  |
| 75  |      |       |         |         |      |       |        |         |      |       |        |         | 75  |
| 80  |      |       |         |         |      |       |        |         |      |       |        |         | 80  |
| 85  |      |       |         |         |      |       |        |         |      |       |        |         | 85  |
| 90  |      |       |         |         |      |       |        |         |      |       |        |         | 90  |
| 95  |      |       |         |         |      |       |        |         |      |       |        |         | 95  |
| 100 |      |       |         |         |      |       |        |         |      |       |        |         | 100 |
| 105 |      |       |         |         |      |       |        |         |      |       |        |         | 105 |
| 110 |      |       |         |         |      |       |        |         |      |       |        |         | 110 |
| 115 |      |       |         |         |      |       |        |         |      |       |        |         | 115 |
| 120 |      |       |         |         |      |       |        |         |      |       |        |         | 120 |
| 125 |      |       |         |         |      |       |        |         |      |       |        |         | 125 |
| 130 | 63.5 | 343.8 | 123,200 | 219,100 |      |       |        |         |      |       |        |         | 130 |
| 135 | 61.0 | 341.0 | 116,400 | 208,900 |      |       |        |         |      |       |        |         | 135 |
| 140 | 58.5 | 337.8 | 110,200 | 199,500 |      |       |        |         |      |       |        |         | 140 |
| 145 | 55.9 | 334.4 | 104,400 | 190,800 |      |       |        |         |      |       |        |         | 145 |
| 150 | 53.3 | 330.6 | 98,900  | 182,600 |      |       |        |         |      |       |        |         | 150 |
| 155 | 50.5 | 326.4 | 93,800  | 175,000 |      |       |        |         |      |       |        |         | 155 |
| 160 | 47.6 | 321.7 | 89,000  | 167,900 | 57.8 | 330.7 | 68,900 | 152,700 |      |       |        |         | 160 |
| 165 | 44.5 | 316.6 | 84,500  | 161,200 | 55.2 | 327.2 | 65,100 | 146,500 |      |       |        |         | 165 |
| 170 | 41.3 | 310.8 | 80,200  | 155,000 | 52.5 | 323.2 | 61,500 | 140,700 |      |       |        |         | 170 |
| 175 | 37.8 | 304.3 | 76,100  | 149,100 | 49.6 | 318.9 | 58,000 | 135,300 |      |       |        |         | 175 |
| 180 | 34.0 | 296.9 | 72,200  | 143,500 | 46.7 | 314.1 | 54,800 | 130,200 |      |       |        |         | 180 |
| 185 | 29.7 | 288.3 | 68,500  | 138,100 | 43.6 | 308.8 | 51,700 | 125,300 | 54.0 | 317.8 | 35,000 | 112,700 | 185 |
| 190 | 24.7 | 277.7 | 64,900  | 133,100 | 40.3 | 302.9 | 48,700 | 120,700 | 51.3 | 313.8 | 32,600 | 108,500 | 190 |
| 195 | 18.4 | 263.7 | 61,300  | 128,200 | 36.7 | 296.1 | 45,900 | 116,300 | 48.4 | 309.3 | 30,300 | 104,500 | 195 |
| 200 | 7.2  | 237.8 | 57,400  | 123,300 | 32.8 | 288.4 | 43,200 | 112,100 | 45.4 | 304.3 | 28,100 | 100,600 | 200 |
| 205 |      |       |         |         | 28.3 | 279.2 | 40,500 | 108,100 | 42.2 | 298.7 | 25,900 | 97,000  | 205 |
| 210 |      |       |         |         | 23.1 | 267.9 | 37,900 | 104,200 | 38.8 | 292.4 | 23,900 | 93,500  | 210 |
| 215 |      |       |         |         | 16.1 | 252.2 | 35,200 | 100,400 | 35.1 | 285.3 | 21,900 | 90,200  | 215 |
| 220 |      |       |         |         |      |       |        |         | 31.0 | 277.1 |        | 87,000  | 220 |
| 225 |      |       |         |         |      |       |        |         | 26.3 | 267.1 |        | 83,900  | 225 |
| 230 |      |       |         |         |      |       |        |         | 20.5 | 254.4 |        | 80,900  | 230 |

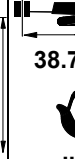
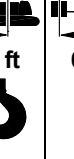
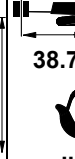
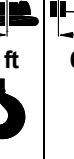
# MLC650 VPC-MAX S-1

ASME B30.5



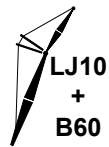
440,900 lb



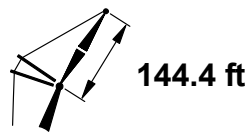
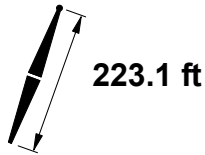
|     | 85°                                                                              |                                                                                   |                                                                                   |                                                                                   | 83°                                                                               |                                                                                   |                                                                                   |                                                                                   | 80°                                                                               |                                                                                   |                                                                                   |                                                                                    |     |
|-----|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----|
|     |  |  |  |  |  |  |  |  |  |  |  |  |     |
| ft  | °                                                                                | ft                                                                                | lb                                                                                | lb                                                                                | °                                                                                 | ft                                                                                | lb                                                                                | lb                                                                                | °                                                                                 | ft                                                                                | lb                                                                                | lb                                                                                 | ft  |
| 70  | 74.7                                                                             | 370.8                                                                             | 376,700 b                                                                         | 376,700 b                                                                         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 70  |
| 75  | 72.6                                                                             | 369.2                                                                             | 351,500 b                                                                         | 376,700 b                                                                         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 75  |
| 80  | 70.5                                                                             | 367.4                                                                             | 324,600                                                                           | 375,500                                                                           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 80  |
| 85  | 68.4                                                                             | 365.3                                                                             | 301,100                                                                           | 373,500                                                                           | 71.7                                                                              | 367.5                                                                             | 284,300                                                                           | 378,100                                                                           |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 85  |
| 90  | 66.2                                                                             | 363.0                                                                             | 280,300                                                                           | 370,500                                                                           | 69.6                                                                              | 365.5                                                                             | 264,600                                                                           | 378,100                                                                           |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 90  |
| 95  | 64.0                                                                             | 360.5                                                                             | 261,900                                                                           | 367,200                                                                           | 67.4                                                                              | 363.4                                                                             | 247,000                                                                           | 365,900                                                                           |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 95  |
| 100 | 61.7                                                                             | 357.8                                                                             | 245,300                                                                           | 349,500                                                                           | 65.2                                                                              | 361.0                                                                             | 231,200                                                                           | 343,800                                                                           |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 100 |
| 105 | 59.4                                                                             | 354.7                                                                             | 230,400                                                                           | 330,800                                                                           | 63.0                                                                              | 358.4                                                                             | 217,000                                                                           | 323,900                                                                           | 68.1                                                                              | 362.2                                                                             | 197,100                                                                           | 308,700                                                                            | 105 |
| 110 | 57.0                                                                             | 351.4                                                                             | 216,900                                                                           | 314,000                                                                           | 60.7                                                                              | 355.5                                                                             | 204,200                                                                           | 306,000                                                                           | 65.9                                                                              | 359.9                                                                             | 185,200                                                                           | 291,600                                                                            | 110 |
| 115 | 54.6                                                                             | 347.8                                                                             | 204,600                                                                           | 298,900                                                                           | 58.3                                                                              | 352.3                                                                             | 192,500                                                                           | 289,800                                                                           | 63.7                                                                              | 357.3                                                                             | 174,400                                                                           | 276,000                                                                            | 115 |
| 120 | 52.0                                                                             | 343.8                                                                             | 193,300                                                                           | 283,900                                                                           | 55.9                                                                              | 348.9                                                                             | 181,800                                                                           | 275,000                                                                           | 61.4                                                                              | 354.5                                                                             | 164,500                                                                           | 261,900                                                                            | 120 |
| 125 | 49.4                                                                             | 339.5                                                                             | 182,900                                                                           | 270,000                                                                           | 53.4                                                                              | 345.1                                                                             | 171,900                                                                           | 261,500                                                                           | 59.1                                                                              | 351.5                                                                             | 155,500                                                                           | 249,000                                                                            | 125 |
| 130 | 46.7                                                                             | 334.7                                                                             | 173,400                                                                           | 257,200                                                                           | 50.9                                                                              | 341.0                                                                             | 162,900                                                                           | 249,100                                                                           | 56.7                                                                              | 348.1                                                                             | 147,100                                                                           | 237,100                                                                            | 130 |
| 135 | 43.8                                                                             | 329.4                                                                             | 164,500                                                                           | 245,400                                                                           | 48.2                                                                              | 336.4                                                                             | 154,500                                                                           | 237,700                                                                           | 54.2                                                                              | 344.4                                                                             | 139,300                                                                           | 226,100                                                                            | 135 |
| 140 | 40.7                                                                             | 323.5                                                                             | 156,300                                                                           | 234,500                                                                           | 45.4                                                                              | 331.4                                                                             | 146,600                                                                           | 227,100                                                                           | 51.7                                                                              | 340.4                                                                             | 132,100                                                                           | 216,000                                                                            | 140 |
| 145 | 37.4                                                                             | 317.0                                                                             | 148,600                                                                           | 224,400                                                                           | 42.4                                                                              | 325.9                                                                             | 139,400                                                                           | 217,300                                                                           | 49.0                                                                              | 336.0                                                                             | 125,400                                                                           | 206,600                                                                            | 145 |
| 150 | 33.9                                                                             | 309.5                                                                             | 141,500                                                                           | 215,000                                                                           | 39.3                                                                              | 319.8                                                                             | 132,600                                                                           | 208,100                                                                           | 46.3                                                                              | 331.2                                                                             | 119,200                                                                           | 197,900                                                                            | 150 |
| 155 | 29.9                                                                             | 300.9                                                                             | 134,700                                                                           | 206,200                                                                           | 35.9                                                                              | 312.8                                                                             | 126,200                                                                           | 199,600                                                                           | 43.4                                                                              | 325.8                                                                             | 113,300                                                                           | 189,700                                                                            | 155 |
| 160 | 25.4                                                                             | 290.6                                                                             | 128,300                                                                           | 197,900                                                                           | 32.2                                                                              | 304.9                                                                             | 120,100                                                                           | 191,600                                                                           | 40.3                                                                              | 319.9                                                                             | 107,800                                                                           | 182,100                                                                            | 160 |
| 165 | 19.8                                                                             | 277.5                                                                             | 122,100                                                                           | 190,100                                                                           | 28.0                                                                              | 295.6                                                                             | 114,400                                                                           | 184,000                                                                           | 37.0                                                                              | 313.2                                                                             | 102,500                                                                           | 174,900                                                                            | 165 |
| 170 | 11.6                                                                             | 257.3                                                                             | 116,000                                                                           | 182,600                                                                           | 23.1                                                                              | 284.3                                                                             | 108,900                                                                           | 176,900                                                                           | 33.4                                                                              | 305.6                                                                             | 97,600                                                                            | 168,100                                                                            | 170 |
| 175 |                                                                                  |                                                                                   |                                                                                   |                                                                                   | 16.7                                                                              | 269.0                                                                             | 103,600                                                                           | 170,100                                                                           | 29.3                                                                              | 296.8                                                                             | 92,900                                                                            | 161,800                                                                            | 175 |
| 180 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 24.7                                                                              | 286.2                                                                             | 88,400                                                                            | 155,700                                                                            | 180 |
| 185 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 18.9                                                                              | 272.5                                                                             | 84,000                                                                            | 149,900                                                                            | 185 |
| 190 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 9.8                                                                               | 250.1                                                                             | 79,400                                                                            | 144,300                                                                            | 190 |
| 195 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 195 |
| 200 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 200 |
| 205 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 205 |
| 210 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 210 |
| 215 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 215 |
| 220 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 220 |
| 225 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 225 |
| 230 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 230 |
| 240 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 240 |

# MLC650 VPC-MAX S-1

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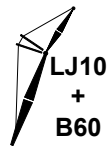
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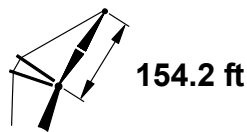
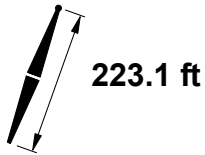
|     | 75°  |       |         |         | 70°  |       |        |         | 65°  |       |        |         |     |
|-----|------|-------|---------|---------|------|-------|--------|---------|------|-------|--------|---------|-----|
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb     | lb      | °    | ft    | lb     | lb      | ft  |
| 70  |      |       |         |         |      |       |        |         |      |       |        |         | 70  |
| 75  |      |       |         |         |      |       |        |         |      |       |        |         | 75  |
| 80  |      |       |         |         |      |       |        |         |      |       |        |         | 80  |
| 85  |      |       |         |         |      |       |        |         |      |       |        |         | 85  |
| 90  |      |       |         |         |      |       |        |         |      |       |        |         | 90  |
| 95  |      |       |         |         |      |       |        |         |      |       |        |         | 95  |
| 100 |      |       |         |         |      |       |        |         |      |       |        |         | 100 |
| 105 |      |       |         |         |      |       |        |         |      |       |        |         | 105 |
| 110 |      |       |         |         |      |       |        |         |      |       |        |         | 110 |
| 115 |      |       |         |         |      |       |        |         |      |       |        |         | 115 |
| 120 |      |       |         |         |      |       |        |         |      |       |        |         | 120 |
| 125 |      |       |         |         |      |       |        |         |      |       |        |         | 125 |
| 130 |      |       |         |         |      |       |        |         |      |       |        |         | 130 |
| 135 | 63.2 | 352.3 | 114,400 | 207,100 |      |       |        |         |      |       |        |         | 135 |
| 140 | 60.9 | 349.4 | 108,100 | 197,800 |      |       |        |         |      |       |        |         | 140 |
| 145 | 58.6 | 346.3 | 102,400 | 189,100 |      |       |        |         |      |       |        |         | 145 |
| 150 | 56.2 | 342.9 | 97,000  | 181,000 |      |       |        |         |      |       |        |         | 150 |
| 155 | 53.7 | 339.2 | 91,900  | 173,400 |      |       |        |         |      |       |        |         | 155 |
| 160 | 51.1 | 335.1 | 87,100  | 166,300 |      |       |        |         |      |       |        |         | 160 |
| 165 | 48.5 | 330.6 | 82,700  | 159,700 | 57.9 | 339.2 | 63,000 | 144,800 |      |       |        |         | 165 |
| 170 | 45.7 | 325.6 | 78,400  | 153,500 | 55.5 | 335.7 | 59,400 | 139,100 |      |       |        |         | 170 |
| 175 | 42.7 | 320.2 | 74,400  | 147,600 | 53.0 | 331.8 | 56,000 | 133,700 |      |       |        |         | 175 |
| 180 | 39.6 | 314.1 | 70,600  | 142,100 | 50.4 | 327.6 | 52,800 | 128,600 |      |       |        |         | 180 |
| 185 | 36.3 | 307.2 | 67,000  | 136,800 | 47.7 | 323.0 | 49,800 | 123,700 |      |       |        |         | 185 |
| 190 | 32.6 | 299.4 | 63,500  | 131,800 | 44.8 | 317.9 | 46,900 | 119,200 | 54.4 | 326.4 | 30,500 | 106,800 | 190 |
| 195 | 28.5 | 290.3 | 60,200  | 127,100 | 41.8 | 312.3 | 44,100 | 114,800 | 51.9 | 322.4 | 28,200 | 102,800 | 195 |
| 200 | 23.6 | 279.2 | 56,900  | 122,500 | 38.7 | 306.0 | 41,500 | 110,700 | 49.3 | 318.0 | 26,000 | 99,000  | 200 |
| 205 | 17.5 | 264.6 | 53,700  | 118,100 | 35.2 | 298.9 | 38,900 | 106,700 | 46.5 | 313.2 | 23,900 | 95,400  | 205 |
| 210 | 6.0  | 236.2 | 50,100  | 113,600 | 31.4 | 290.8 | 36,400 | 103,000 | 43.6 | 307.9 | 21,900 | 92,000  | 210 |
| 215 |      |       |         |         | 27.1 | 281.2 | 34,000 | 99,400  | 40.5 | 302.0 | 20,000 | 88,700  | 215 |
| 220 |      |       |         |         | 22.0 | 269.3 | 31,600 | 95,800  | 37.3 | 295.4 |        | 85,600  | 220 |
| 225 |      |       |         |         | 15.2 | 252.7 | 29,200 | 92,400  | 33.7 | 287.9 |        | 82,500  | 225 |
| 230 |      |       |         |         |      |       |        |         | 29.7 | 279.3 |        | 79,600  | 230 |
| 240 |      |       |         |         |      |       |        |         | 19.5 | 255.5 |        | 74,000  | 240 |

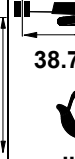
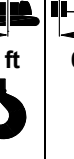
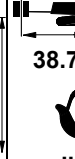
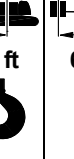
# MLC650 VPC-MAX S-1

ASME B30.5



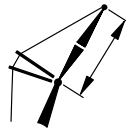
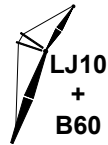
440,900 lb



|     | 85°                                                                              |                                                                                   |                                                                                   |                                                                                   | 83°                                                                               |                                                                                   |                                                                                   |                                                                                   | 80°                                                                               |                                                                                   |                                                                                   |                                                                                    |                                                                                     |
|-----|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|     |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ft  | °                                                                                | ft                                                                                | lb                                                                                | lb                                                                                | °                                                                                 | ft                                                                                | lb                                                                                | lb                                                                                | °                                                                                 | ft                                                                                | lb                                                                                | lb                                                                                 | ft                                                                                  |
| 75  | 73.8                                                                             | 379.6                                                                             | 348,900                                                                           | 350,700                                                                           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 75                                                                                  |
| 80  | 71.8                                                                             | 377.9                                                                             | 322,100                                                                           | 350,300                                                                           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 80                                                                                  |
| 85  | 69.8                                                                             | 376.0                                                                             | 298,600                                                                           | 349,100                                                                           | 72.9                                                                              | 377.9                                                                             | 281,500                                                                           | 350,700                                                                           |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 85                                                                                  |
| 90  | 67.8                                                                             | 373.9                                                                             | 277,900                                                                           | 347,200                                                                           | 70.9                                                                              | 376.1                                                                             | 261,800                                                                           | 350,700                                                                           |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 90                                                                                  |
| 95  | 65.8                                                                             | 371.5                                                                             | 259,400                                                                           | 344,800                                                                           | 68.9                                                                              | 374.1                                                                             | 244,300                                                                           | 350,700                                                                           |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 95                                                                                  |
| 100 | 63.7                                                                             | 369.0                                                                             | 242,900                                                                           | 341,400                                                                           | 66.9                                                                              | 371.9                                                                             | 228,600                                                                           | 341,300                                                                           |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 100                                                                                 |
| 105 | 61.6                                                                             | 366.2                                                                             | 228,000                                                                           | 328,600                                                                           | 64.8                                                                              | 369.5                                                                             | 214,400                                                                           | 321,600                                                                           | 69.6                                                                              | 372.9                                                                             | 194,200                                                                           | 306,100                                                                            | 105                                                                                 |
| 110 | 59.4                                                                             | 363.2                                                                             | 214,500                                                                           | 311,700                                                                           | 62.7                                                                              | 366.9                                                                             | 201,600                                                                           | 303,700                                                                           | 67.5                                                                              | 370.7                                                                             | 182,300                                                                           | 289,000                                                                            | 110                                                                                 |
| 115 | 57.2                                                                             | 359.9                                                                             | 202,200                                                                           | 296,500                                                                           | 60.6                                                                              | 364.0                                                                             | 189,900                                                                           | 287,600                                                                           | 65.5                                                                              | 368.4                                                                             | 171,600                                                                           | 273,600                                                                            | 115                                                                                 |
| 120 | 54.9                                                                             | 356.3                                                                             | 191,000                                                                           | 281,800                                                                           | 58.4                                                                              | 360.8                                                                             | 179,300                                                                           | 272,900                                                                           | 63.4                                                                              | 365.8                                                                             | 161,700                                                                           | 259,500                                                                            | 120                                                                                 |
| 125 | 52.5                                                                             | 352.4                                                                             | 180,700                                                                           | 268,000                                                                           | 56.2                                                                              | 357.4                                                                             | 169,500                                                                           | 259,400                                                                           | 61.3                                                                              | 363.0                                                                             | 152,700                                                                           | 246,600                                                                            | 125                                                                                 |
| 130 | 50.1                                                                             | 348.2                                                                             | 171,200                                                                           | 255,200                                                                           | 53.8                                                                              | 353.7                                                                             | 160,400                                                                           | 247,000                                                                           | 59.1                                                                              | 359.9                                                                             | 144,400                                                                           | 234,800                                                                            | 130                                                                                 |
| 135 | 47.6                                                                             | 343.6                                                                             | 162,400                                                                           | 243,500                                                                           | 51.5                                                                              | 349.6                                                                             | 152,100                                                                           | 235,600                                                                           | 56.9                                                                              | 356.6                                                                             | 136,700                                                                           | 223,900                                                                            | 135                                                                                 |
| 140 | 44.9                                                                             | 338.5                                                                             | 154,200                                                                           | 232,600                                                                           | 49.0                                                                              | 345.2                                                                             | 144,300                                                                           | 225,100                                                                           | 54.6                                                                              | 353.0                                                                             | 129,500                                                                           | 213,800                                                                            | 140                                                                                 |
| 145 | 42.1                                                                             | 332.9                                                                             | 146,600                                                                           | 222,600                                                                           | 46.4                                                                              | 340.4                                                                             | 137,100                                                                           | 215,300                                                                           | 52.2                                                                              | 349.0                                                                             | 122,800                                                                           | 204,500                                                                            | 145                                                                                 |
| 150 | 39.2                                                                             | 326.7                                                                             | 139,500                                                                           | 213,200                                                                           | 43.7                                                                              | 335.1                                                                             | 130,300                                                                           | 206,200                                                                           | 49.8                                                                              | 344.8                                                                             | 116,600                                                                           | 195,800                                                                            | 150                                                                                 |
| 155 | 36.0                                                                             | 319.8                                                                             | 132,800                                                                           | 204,400                                                                           | 40.8                                                                              | 329.3                                                                             | 124,000                                                                           | 197,700                                                                           | 47.2                                                                              | 340.1                                                                             | 110,800                                                                           | 187,600                                                                            | 155                                                                                 |
| 160 | 32.6                                                                             | 312.0                                                                             | 126,500                                                                           | 196,200                                                                           | 37.8                                                                              | 322.8                                                                             | 118,000                                                                           | 189,700                                                                           | 44.5                                                                              | 334.9                                                                             | 105,300                                                                           | 180,000                                                                            | 160                                                                                 |
| 165 | 28.8                                                                             | 303.0                                                                             | 120,500                                                                           | 188,500                                                                           | 34.5                                                                              | 315.5                                                                             | 112,400                                                                           | 182,300                                                                           | 41.7                                                                              | 329.3                                                                             | 100,200                                                                           | 172,900                                                                            | 165                                                                                 |
| 170 | 24.3                                                                             | 292.3                                                                             | 114,900                                                                           | 181,300                                                                           | 30.9                                                                              | 307.2                                                                             | 107,100                                                                           | 175,300                                                                           | 38.8                                                                              | 323.0                                                                             | 95,300                                                                            | 166,200                                                                            | 170                                                                                 |
| 175 | 18.9                                                                             | 278.5                                                                             | 109,400                                                                           | 174,400                                                                           | 26.9                                                                              | 297.5                                                                             | 102,000                                                                           | 168,600                                                                           | 35.6                                                                              | 316.0                                                                             | 90,700                                                                            | 159,900                                                                            | 175                                                                                 |
| 180 | 10.8                                                                             | 257.2                                                                             | 103,900                                                                           | 167,700                                                                           | 22.1                                                                              | 285.6                                                                             | 97,100                                                                            | 162,300                                                                           | 32.1                                                                              | 308.1                                                                             | 86,300                                                                            | 153,900                                                                            | 180                                                                                 |
| 185 |                                                                                  |                                                                                   |                                                                                   |                                                                                   | 15.8                                                                              | 269.6                                                                             | 92,400                                                                            | 156,300                                                                           | 28.2                                                                              | 298.8                                                                             | 82,100                                                                            | 148,300                                                                            | 185                                                                                 |
| 190 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 23.7                                                                              | 287.8                                                                             | 78,000                                                                            | 142,900                                                                            | 190                                                                                 |
| 195 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 18.0                                                                              | 273.4                                                                             | 74,100                                                                            | 137,700                                                                            | 195                                                                                 |
| 200 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 9.0                                                                               | 249.5                                                                             | 69,900                                                                            | 132,600                                                                            | 200                                                                                 |
| 205 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 205                                                                                 |
| 210 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 210                                                                                 |
| 215 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 215                                                                                 |
| 220 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 220                                                                                 |
| 225 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 225                                                                                 |
| 230 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 230                                                                                 |
| 240 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 240                                                                                 |
| 250 |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 250                                                                                 |

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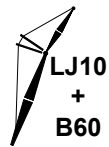
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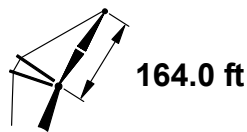
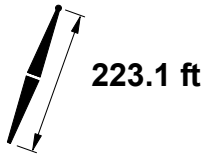
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|-----|------|-------|---------|---------|------|-------|--------|---------|------|-------|---------|-----|
|     |      |       |         |         |      |       |        |         |      |       |         |     |
|     | ft   | °     | ft      | lb      | lb   | ft    | lb     | lb      | ft   | lb    | lb      | ft  |
| 75  |      |       |         |         |      |       |        |         |      |       |         | 75  |
| 80  |      |       |         |         |      |       |        |         |      |       |         | 80  |
| 85  |      |       |         |         |      |       |        |         |      |       |         | 85  |
| 90  |      |       |         |         |      |       |        |         |      |       |         | 90  |
| 95  |      |       |         |         |      |       |        |         |      |       |         | 95  |
| 100 |      |       |         |         |      |       |        |         |      |       |         | 100 |
| 105 |      |       |         |         |      |       |        |         |      |       |         | 105 |
| 110 |      |       |         |         |      |       |        |         |      |       |         | 110 |
| 115 |      |       |         |         |      |       |        |         |      |       |         | 115 |
| 120 |      |       |         |         |      |       |        |         |      |       |         | 120 |
| 125 |      |       |         |         |      |       |        |         |      |       |         | 125 |
| 130 |      |       |         |         |      |       |        |         |      |       |         | 130 |
| 135 |      |       |         |         |      |       |        |         |      |       |         | 135 |
| 140 | 63.0 | 360.8 | 105,100 | 195,300 |      |       |        |         |      |       |         | 140 |
| 145 | 60.8 | 357.9 | 99,300  | 186,600 |      |       |        |         |      |       |         | 145 |
| 150 | 58.6 | 354.8 | 94,000  | 178,500 |      |       |        |         |      |       |         | 150 |
| 155 | 56.4 | 351.4 | 88,900  | 171,000 |      |       |        |         |      |       |         | 155 |
| 160 | 54.1 | 347.7 | 84,200  | 164,000 |      |       |        |         |      |       |         | 160 |
| 165 | 51.7 | 343.7 | 79,800  | 157,400 |      |       |        |         |      |       |         | 165 |
| 170 | 49.2 | 339.3 | 75,600  | 151,200 | 58.0 | 347.7 | 56,200 | 136,600 |      |       |         | 170 |
| 175 | 46.7 | 334.6 | 71,700  | 145,400 | 55.7 | 344.2 | 52,900 | 131,200 |      |       |         | 175 |
| 180 | 44.0 | 329.3 | 68,000  | 139,900 | 53.4 | 340.4 | 49,800 | 126,100 |      |       |         | 180 |
| 185 | 41.2 | 323.6 | 64,400  | 134,700 | 51.0 | 336.3 | 46,800 | 121,400 |      |       |         | 185 |
| 190 | 38.1 | 317.2 | 61,000  | 129,800 | 48.5 | 331.8 | 43,900 | 116,800 |      |       |         | 190 |
| 195 | 34.9 | 310.0 | 57,800  | 125,100 | 45.9 | 326.9 | 41,200 | 112,500 | 54.8 | 335.0 | 100,300 | 195 |
| 200 | 31.3 | 301.8 | 54,600  | 120,600 | 43.2 | 321.6 | 38,600 | 108,500 | 52.4 | 331.0 | 96,500  | 200 |
| 205 | 27.3 | 292.3 | 51,600  | 116,400 | 40.3 | 315.6 | 36,100 | 104,600 | 50.0 | 326.8 | 93,000  | 205 |
| 210 | 22.6 | 280.7 | 48,700  | 112,300 | 37.2 | 309.0 | 33,700 | 100,900 | 47.4 | 322.1 | 89,600  | 210 |
| 215 | 16.6 | 265.3 | 45,700  | 108,300 | 33.9 | 301.6 | 31,400 | 97,300  | 44.8 | 317.0 | 86,400  | 215 |
| 220 | 4.9  | 234.1 | 42,300  | 104,200 | 30.2 | 293.0 | 29,200 | 93,900  | 42.0 | 311.4 | 83,300  | 220 |
| 225 |      |       |         |         | 26.0 | 283.0 | 27,000 | 90,600  | 39.0 | 305.2 | 80,300  | 225 |
| 230 |      |       |         |         | 21.1 | 270.6 | 24,800 | 87,400  | 35.9 | 298.3 | 77,400  | 230 |
| 240 |      |       |         |         |      |       |        |         | 28.5 | 281.3 | 72,000  | 240 |
| 250 |      |       |         |         |      |       |        |         | 18.6 | 256.5 | 66,900  | 250 |

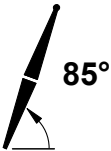
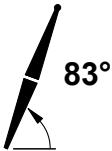
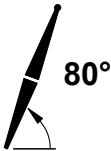
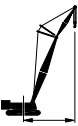
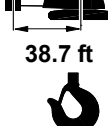
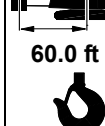
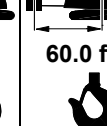
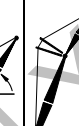
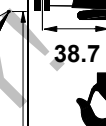
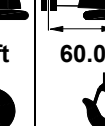
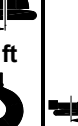
# MLC650 VPC-MAX S-1

ASME B30.5



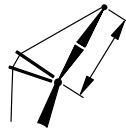
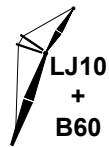
440,900 lb



|     |  85° |                                                                                     |                                                                                      |                                                                                                 |                                                                                                 |  83° |                                                                                      |                                                                                                 |                                                                                                 |                                                                                      |  80° |                                                                                                   |                                                                                                   |                                                                                        |     |  |
|-----|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-----|--|
|     |  ft  |  ° |  ft |  38.7 ft<br>lb |  60.0 ft<br>lb |  °   |  ft |  38.7 ft<br>lb |  60.0 ft<br>lb |  ° |  ft  |  38.7 ft<br>lb |  60.0 ft<br>lb |  ft |     |  |
| 75  | 74.8                                                                                  | 389.9                                                                               | 326,400                                                                              | 326,400                                                                                         |                                                                                                 |                                                                                       |                                                                                      |                                                                                                 |                                                                                                 |                                                                                      |                                                                                         |                                                                                                   |                                                                                                   |                                                                                        | 75  |  |
| 80  | 73.0                                                                                  | 388.3                                                                               | 321,400                                                                              | 326,400                                                                                         |                                                                                                 |                                                                                       |                                                                                      |                                                                                                 |                                                                                                 |                                                                                      |                                                                                         |                                                                                                   |                                                                                                   |                                                                                        | 80  |  |
| 85  | 71.1                                                                                  | 386.5                                                                               | 297,900                                                                              | 326,100                                                                                         |                                                                                                 |                                                                                       |                                                                                      |                                                                                                 |                                                                                                 |                                                                                      |                                                                                         |                                                                                                   |                                                                                                   |                                                                                        | 85  |  |
| 90  | 69.2                                                                                  | 384.6                                                                               | 277,200                                                                              | 324,900                                                                                         | 72.1                                                                                            | 386.6                                                                                 | 261,000                                                                              | 326,700                                                                                         |                                                                                                 |                                                                                      |                                                                                         |                                                                                                   |                                                                                                   |                                                                                        | 90  |  |
| 95  | 67.3                                                                                  | 382.4                                                                               | 258,800                                                                              | 323,100                                                                                         | 70.3                                                                                            | 384.7                                                                                 | 243,500                                                                              | 326,700                                                                                         |                                                                                                 |                                                                                      |                                                                                         |                                                                                                   |                                                                                                   |                                                                                        | 95  |  |
| 100 | 65.4                                                                                  | 380.1                                                                               | 242,300                                                                              | 320,500                                                                                         | 68.4                                                                                            | 382.7                                                                                 | 227,900                                                                              | 326,700                                                                                         |                                                                                                 |                                                                                      |                                                                                         |                                                                                                   |                                                                                                   |                                                                                        | 100 |  |
| 105 | 63.4                                                                                  | 377.5                                                                               | 227,500                                                                              | 317,100                                                                                         | 66.5                                                                                            | 380.4                                                                                 | 213,700                                                                              | 320,600                                                                                         |                                                                                                 |                                                                                      |                                                                                         |                                                                                                   |                                                                                                   |                                                                                        | 105 |  |
| 110 | 61.4                                                                                  | 374.7                                                                               | 214,000                                                                              | 305,300                                                                                         | 64.5                                                                                            | 378.0                                                                                 | 200,900                                                                              | 302,800                                                                                         | 69.0                                                                                            | 381.4                                                                                | 181,500                                                                                 | 288,000                                                                                           |                                                                                                   |                                                                                        | 110 |  |
| 115 | 59.4                                                                                  | 371.7                                                                               | 201,700                                                                              | 293,400                                                                                         | 62.5                                                                                            | 375.3                                                                                 | 189,300                                                                              | 286,700                                                                                         | 67.1                                                                                            | 379.3                                                                                | 170,700                                                                                 | 272,600                                                                                           |                                                                                                   |                                                                                        | 115 |  |
| 120 | 57.3                                                                                  | 368.4                                                                               | 190,500                                                                              | 280,900                                                                                         | 60.5                                                                                            | 372.5                                                                                 | 178,700                                                                              | 272,000                                                                                         | 65.1                                                                                            | 376.9                                                                                | 160,900                                                                                 | 258,600                                                                                           |                                                                                                   |                                                                                        | 120 |  |
| 125 | 55.2                                                                                  | 364.9                                                                               | 180,200                                                                              | 267,300                                                                                         | 58.5                                                                                            | 369.3                                                                                 | 168,900                                                                              | 258,600                                                                                         | 63.2                                                                                            | 374.3                                                                                | 151,900                                                                                 | 245,700                                                                                           |                                                                                                   |                                                                                        | 125 |  |
| 130 | 53.0                                                                                  | 361.0                                                                               | 170,800                                                                              | 254,600                                                                                         | 56.4                                                                                            | 365.9                                                                                 | 159,900                                                                              | 246,300                                                                                         | 61.2                                                                                            | 371.5                                                                                | 143,600                                                                                 | 234,000                                                                                           |                                                                                                   |                                                                                        | 130 |  |
| 135 | 50.7                                                                                  | 356.9                                                                               | 162,000                                                                              | 242,900                                                                                         | 54.2                                                                                            | 362.3                                                                                 | 151,500                                                                              | 234,900                                                                                         | 59.1                                                                                            | 368.4                                                                                | 135,900                                                                                 | 223,100                                                                                           |                                                                                                   |                                                                                        | 135 |  |
| 140 | 48.4                                                                                  | 352.4                                                                               | 153,900                                                                              | 232,100                                                                                         | 52.0                                                                                            | 358.3                                                                                 | 143,800                                                                              | 224,400                                                                                         | 57.0                                                                                            | 365.1                                                                                | 128,800                                                                                 | 213,100                                                                                           |                                                                                                   |                                                                                        | 140 |  |
| 145 | 45.9                                                                                  | 347.5                                                                               | 146,300                                                                              | 222,000                                                                                         | 49.7                                                                                            | 354.0                                                                                 | 136,600                                                                              | 214,700                                                                                         | 54.9                                                                                            | 361.5                                                                                | 122,200                                                                                 | 203,700                                                                                           |                                                                                                   |                                                                                        | 145 |  |
| 150 | 43.4                                                                                  | 342.1                                                                               | 139,200                                                                              | 212,700                                                                                         | 47.3                                                                                            | 349.3                                                                                 | 129,900                                                                              | 205,600                                                                                         | 52.7                                                                                            | 357.7                                                                                | 116,000                                                                                 | 195,100                                                                                           |                                                                                                   |                                                                                        | 150 |  |
| 155 | 40.7                                                                                  | 336.3                                                                               | 132,600                                                                              | 204,000                                                                                         | 44.8                                                                                            | 344.2                                                                                 | 123,600                                                                              | 197,200                                                                                         | 50.4                                                                                            | 353.5                                                                                | 110,200                                                                                 | 187,000                                                                                           |                                                                                                   |                                                                                        | 155 |  |
| 160 | 37.8                                                                                  | 329.8                                                                               | 126,300                                                                              | 195,800                                                                                         | 42.2                                                                                            | 338.6                                                                                 | 117,700                                                                              | 189,200                                                                                         | 48.0                                                                                            | 348.9                                                                                | 104,800                                                                                 | 179,400                                                                                           |                                                                                                   |                                                                                        | 160 |  |
| 165 | 34.7                                                                                  | 322.6                                                                               | 120,500                                                                              | 188,200                                                                                         | 39.4                                                                                            | 332.5                                                                                 | 112,200                                                                              | 181,800                                                                                         | 45.6                                                                                            | 344.0                                                                                | 99,700                                                                                  | 172,300                                                                                           |                                                                                                   |                                                                                        | 165 |  |
| 170 | 31.4                                                                                  | 314.4                                                                               | 114,900                                                                              | 181,000                                                                                         | 36.5                                                                                            | 325.7                                                                                 | 106,900                                                                              | 174,800                                                                                         | 43.0                                                                                            | 338.5                                                                                | 94,900                                                                                  | 165,700                                                                                           |                                                                                                   |                                                                                        | 170 |  |
| 175 | 27.7                                                                                  | 305.0                                                                               | 109,600                                                                              | 174,200                                                                                         | 33.3                                                                                            | 318.1                                                                                 | 101,900                                                                              | 168,300                                                                                         | 40.3                                                                                            | 332.6                                                                                | 90,300                                                                                  | 159,400                                                                                           |                                                                                                   |                                                                                        | 175 |  |
| 180 | 23.4                                                                                  | 293.8                                                                               | 104,600                                                                              | 167,800                                                                                         | 29.8                                                                                            | 309.5                                                                                 | 97,200                                                                               | 162,000                                                                                         | 37.4                                                                                            | 326.0                                                                                | 86,000                                                                                  | 153,500                                                                                           |                                                                                                   |                                                                                        | 180 |  |
| 185 | 18.1                                                                                  | 279.4                                                                               | 99,700                                                                               | 161,600                                                                                         | 25.8                                                                                            | 299.3                                                                                 | 92,600                                                                               | 156,200                                                                                         | 34.3                                                                                            | 318.7                                                                                | 81,900                                                                                  | 147,900                                                                                           |                                                                                                   |                                                                                        | 185 |  |
| 190 | 10.0                                                                                  | 256.9                                                                               | 94,700                                                                               | 155,700                                                                                         | 21.2                                                                                            | 286.9                                                                                 | 88,300                                                                               | 150,500                                                                                         | 30.9                                                                                            | 310.4                                                                                | 77,900                                                                                  | 142,500                                                                                           |                                                                                                   |                                                                                        | 190 |  |
| 195 |                                                                                       |                                                                                     |                                                                                      |                                                                                                 | 15.1                                                                                            | 270.1                                                                                 | 84,000                                                                               | 145,100                                                                                         | 27.1                                                                                            | 300.8                                                                                | 74,100                                                                                  | 137,500                                                                                           |                                                                                                   |                                                                                        | 195 |  |
| 200 |                                                                                       |                                                                                     |                                                                                      |                                                                                                 |                                                                                                 |                                                                                       |                                                                                      |                                                                                                 | 22.7                                                                                            | 289.2                                                                                | 70,500                                                                                  | 132,600                                                                                           |                                                                                                   |                                                                                        | 200 |  |
| 205 |                                                                                       |                                                                                     |                                                                                      |                                                                                                 |                                                                                                 |                                                                                       |                                                                                      |                                                                                                 | 17.2                                                                                            | 274.2                                                                                | 66,900                                                                                  | 128,000                                                                                           |                                                                                                   |                                                                                        | 205 |  |
| 210 |                                                                                       |                                                                                     |                                                                                      |                                                                                                 |                                                                                                 |                                                                                       |                                                                                      |                                                                                                 | 8.2                                                                                             | 248.8                                                                                | 63,100                                                                                  | 123,400                                                                                           |                                                                                                   |                                                                                        | 210 |  |
| 215 |                                                                                       |                                                                                     |                                                                                      |                                                                                                 |                                                                                                 |                                                                                       |                                                                                      |                                                                                                 |                                                                                                 |                                                                                      |                                                                                         |                                                                                                   |                                                                                                   |                                                                                        | 215 |  |
| 220 |                                                                                       |                                                                                     |                                                                                      |                                                                                                 |                                                                                                 |                                                                                       |                                                                                      |                                                                                                 |                                                                                                 |                                                                                      |                                                                                         |                                                                                                   |                                                                                                   |                                                                                        | 220 |  |
| 225 |                                                                                       |                                                                                     |                                                                                      |                                                                                                 |                                                                                                 |                                                                                       |                                                                                      |                                                                                                 |                                                                                                 |                                                                                      |                                                                                         |                                                                                                   |                                                                                                   |                                                                                        | 225 |  |
| 230 |                                                                                       |                                                                                     |                                                                                      |                                                                                                 |                                                                                                 |                                                                                       |                                                                                      |                                                                                                 |                                                                                                 |                                                                                      |                                                                                         |                                                                                                   |                                                                                                   |                                                                                        | 230 |  |
| 240 |                                                                                       |                                                                                     |                                                                                      |                                                                                                 |                                                                                                 |                                                                                       |                                                                                      |                                                                                                 |                                                                                                 |                                                                                      |                                                                                         |                                                                                                   |                                                                                                   |                                                                                        | 240 |  |
| 250 |                                                                                       |                                                                                     |                                                                                      |                                                                                                 |                                                                                                 |                                                                                       |                                                                                      |                                                                                                 |                                                                                                 |                                                                                      |                                                                                         |                                                                                                   |                                                                                                   |                                                                                        | 250 |  |
| 260 |                                                                                       |                                                                                     |                                                                                      |                                                                                                 |                                                                                                 |                                                                                       |                                                                                      |                                                                                                 |                                                                                                 |                                                                                      |                                                                                         |                                                                                                   |                                                                                                   |                                                                                        | 260 |  |

# MLC650 VPC-MAX S-1

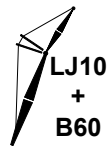
ASME B30.5



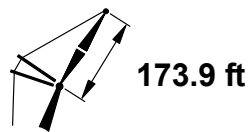
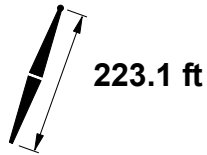
|     | 75°  |       |         |         | 70°  |       |        |         | 65°  |       |        |     |
|-----|------|-------|---------|---------|------|-------|--------|---------|------|-------|--------|-----|
|     | ft   | °     | ft      | lb      | lb   | ft    | lb     | lb      | ft   | °     | ft     | lb  |
| 75  |      |       |         |         |      |       |        |         |      |       |        | 75  |
| 80  |      |       |         |         |      |       |        |         |      |       |        | 80  |
| 85  |      |       |         |         |      |       |        |         |      |       |        | 85  |
| 90  |      |       |         |         |      |       |        |         |      |       |        | 90  |
| 95  |      |       |         |         |      |       |        |         |      |       |        | 95  |
| 100 |      |       |         |         |      |       |        |         |      |       |        | 100 |
| 105 |      |       |         |         |      |       |        |         |      |       |        | 105 |
| 110 |      |       |         |         |      |       |        |         |      |       |        | 110 |
| 115 |      |       |         |         |      |       |        |         |      |       |        | 115 |
| 120 |      |       |         |         |      |       |        |         |      |       |        | 120 |
| 125 |      |       |         |         |      |       |        |         |      |       |        | 125 |
| 130 |      |       |         |         |      |       |        |         |      |       |        | 130 |
| 135 |      |       |         |         |      |       |        |         |      |       |        | 135 |
| 140 | 64.7 | 371.9 | 104,100 | 194,300 |      |       |        |         |      |       |        | 140 |
| 145 | 62.8 | 369.2 | 98,400  | 185,700 |      |       |        |         |      |       |        | 145 |
| 150 | 60.8 | 366.4 | 93,100  | 177,700 |      |       |        |         |      |       |        | 150 |
| 155 | 58.7 | 363.3 | 88,100  | 170,200 |      |       |        |         |      |       |        | 155 |
| 160 | 56.6 | 359.9 | 83,400  | 163,200 |      |       |        |         |      |       |        | 160 |
| 165 | 54.4 | 356.3 | 79,000  | 156,700 |      |       |        |         |      |       |        | 165 |
| 170 | 52.2 | 352.3 | 74,900  | 150,500 |      |       |        |         |      |       |        | 170 |
| 175 | 49.9 | 348.1 | 71,000  | 144,700 | 58.1 | 356.2 | 51,900 | 130,400 |      |       |        | 175 |
| 180 | 47.5 | 343.4 | 67,300  | 139,300 | 56.0 | 352.7 | 48,800 | 125,300 |      |       |        | 180 |
| 185 | 45.1 | 338.4 | 63,800  | 134,100 | 53.8 | 349.0 | 45,900 | 120,600 |      |       |        | 185 |
| 190 | 42.5 | 332.9 | 60,400  | 129,200 | 51.5 | 345.0 | 43,100 | 116,100 |      |       |        | 190 |
| 195 | 39.7 | 326.8 | 57,200  | 124,600 | 49.2 | 340.6 | 40,400 | 111,800 |      |       |        | 195 |
| 200 | 36.8 | 320.1 | 54,200  | 120,100 | 46.8 | 335.9 | 37,800 | 107,800 |      |       |        | 200 |
| 205 | 33.6 | 312.6 | 51,300  | 115,900 | 44.3 | 330.7 | 35,400 | 103,900 | 52.9 | 339.7 | 92,200 | 205 |
| 210 | 30.2 | 304.1 | 48,400  | 111,900 | 41.7 | 325.0 | 33,100 | 100,200 | 50.6 | 335.5 | 88,800 | 210 |
| 215 | 26.3 | 294.1 | 45,700  | 108,100 | 38.9 | 318.8 | 30,800 | 96,700  | 48.2 | 331.0 | 85,600 | 215 |
| 220 | 21.7 | 282.1 | 43,000  | 104,300 | 35.9 | 311.9 | 28,600 | 93,400  | 45.8 | 326.0 | 82,600 | 220 |
| 225 | 15.8 | 265.9 | 40,300  | 100,700 | 32.7 | 304.1 | 26,500 | 90,100  | 43.2 | 320.7 | 79,600 | 225 |
| 230 | 3.4  | 230.6 | 37,100  | 96,900  | 29.1 | 295.2 | 24,500 | 87,000  | 40.5 | 314.8 | 76,800 | 230 |
| 240 |      |       |         |         | 20.2 | 271.7 | 20,500 | 81,100  | 34.6 | 301.0 | 71,500 | 240 |
| 250 |      |       |         |         |      |       |        |         | 27.5 | 283.3 | 66,600 | 250 |
| 260 |      |       |         |         |      |       |        |         | 17.8 | 257.4 | 61,900 | 260 |

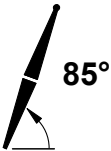
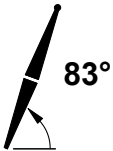
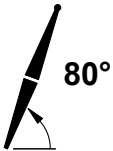
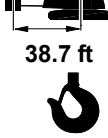
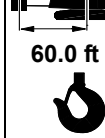
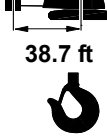
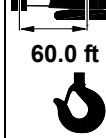
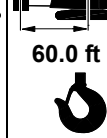
# MLC650 VPC-MAX S-1

ASME B30.5



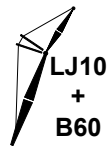
440,900 lb



|     |  85° |                                                                                     |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |  83° |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |  80° |                                                                                        |                                                                                                                                                                                       |                                                                                                                                                                                       |  |                                                                                        |
|-----|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------|
|     |  ft  |  ° |  ft |  38.7 ft<br> lb |  60.0 ft<br> lb |  °   |  ft |  38.7 ft<br> lb |  60.0 ft<br> lb |  °    |  ft |  38.7 ft<br> lb |  60.0 ft<br> lb |  |  ft |
| 80  | 74.0                                                                                  | 398.6                                                                               | 304,500                                                                              | 304,500                                                                                                                                                                           |                                                                                                                                                                                   |                                                                                       |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                         |                                                                                        |                                                                                                                                                                                       |                                                                                                                                                                                       |  | 80                                                                                     |
| 85  | 72.2                                                                                  | 397.0                                                                               | 295,400                                                                              | 304,400                                                                                                                                                                           |                                                                                                                                                                                   |                                                                                       |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                         |                                                                                        |                                                                                                                                                                                       |                                                                                                                                                                                       |  | 85                                                                                     |
| 90  | 70.5                                                                                  | 395.1                                                                               | 274,700                                                                              | 303,800                                                                                                                                                                           |                                                                                                                                                                                   |                                                                                       |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                         |                                                                                        |                                                                                                                                                                                       |                                                                                                                                                                                       |  | 90                                                                                     |
| 95  | 68.7                                                                                  | 393.1                                                                               | 256,400                                                                              | 302,600                                                                                                                                                                           | 71.4                                                                                                                                                                              | 395.2                                                                                 | 240,800                                                                              | 304,500                                                                                                                                                                           |                                                                                                                                                                                   |                                                                                         |                                                                                        |                                                                                                                                                                                       |                                                                                                                                                                                       |  | 95                                                                                     |
| 100 | 66.9                                                                                  | 390.9                                                                               | 239,900                                                                              | 301,000                                                                                                                                                                           | 69.7                                                                                                                                                                              | 393.3                                                                                 | 225,200                                                                              | 304,500                                                                                                                                                                           |                                                                                                                                                                                   |                                                                                         |                                                                                        |                                                                                                                                                                                       |                                                                                                                                                                                       |  | 100                                                                                    |
| 105 | 65.1                                                                                  | 388.6                                                                               | 225,000                                                                              | 298,600                                                                                                                                                                           | 67.9                                                                                                                                                                              | 391.2                                                                                 | 211,100                                                                              | 304,500                                                                                                                                                                           |                                                                                                                                                                                   |                                                                                         |                                                                                        |                                                                                                                                                                                       |                                                                                                                                                                                       |  | 105                                                                                    |
| 110 | 63.2                                                                                  | 386.0                                                                               | 211,600                                                                              | 293,800                                                                                                                                                                           | 66.1                                                                                                                                                                              | 389.0                                                                                 | 198,300                                                                              | 300,500                                                                                                                                                                           |                                                                                                                                                                                   |                                                                                         |                                                                                        |                                                                                                                                                                                       |                                                                                                                                                                                       |  | 110                                                                                    |
| 115 | 61.3                                                                                  | 383.2                                                                               | 199,400                                                                              | 283,200                                                                                                                                                                           | 64.2                                                                                                                                                                              | 386.5                                                                                 | 186,700                                                                              | 284,500                                                                                                                                                                           | 68.4                                                                                                                                                                              | 390.0                                                                                   | 167,900                                                                                | 270,200                                                                                                                                                                               |                                                                                                                                                                                       |  | 115                                                                                    |
| 120 | 59.4                                                                                  | 380.2                                                                               | 188,200                                                                              | 272,600                                                                                                                                                                           | 62.4                                                                                                                                                                              | 383.8                                                                                 | 176,100                                                                              | 269,800                                                                                                                                                                           | 66.6                                                                                                                                                                              | 387.8                                                                                   | 158,100                                                                                | 256,200                                                                                                                                                                               |                                                                                                                                                                                       |  | 120                                                                                    |
| 125 | 57.4                                                                                  | 376.9                                                                               | 177,900                                                                              | 261,900                                                                                                                                                                           | 60.5                                                                                                                                                                              | 380.9                                                                                 | 166,400                                                                              | 256,500                                                                                                                                                                           | 64.8                                                                                                                                                                              | 385.4                                                                                   | 149,100                                                                                | 243,400                                                                                                                                                                               |                                                                                                                                                                                       |  | 125                                                                                    |
| 130 | 55.4                                                                                  | 373.4                                                                               | 168,500                                                                              | 251,500                                                                                                                                                                           | 58.5                                                                                                                                                                              | 377.8                                                                                 | 157,400                                                                              | 244,200                                                                                                                                                                           | 63.0                                                                                                                                                                              | 382.8                                                                                   | 140,900                                                                                | 231,700                                                                                                                                                                               |                                                                                                                                                                                       |  | 130                                                                                    |
| 135 | 53.4                                                                                  | 369.6                                                                               | 159,700                                                                              | 240,900                                                                                                                                                                           | 56.5                                                                                                                                                                              | 374.4                                                                                 | 149,100                                                                              | 232,900                                                                                                                                                                           | 61.1                                                                                                                                                                              | 380.0                                                                                   | 133,200                                                                                | 220,800                                                                                                                                                                               |                                                                                                                                                                                       |  | 135                                                                                    |
| 140 | 51.2                                                                                  | 365.6                                                                               | 151,600                                                                              | 230,100                                                                                                                                                                           | 54.5                                                                                                                                                                              | 370.8                                                                                 | 141,400                                                                              | 222,400                                                                                                                                                                           | 59.1                                                                                                                                                                              | 376.9                                                                                   | 126,100                                                                                | 210,800                                                                                                                                                                               |                                                                                                                                                                                       |  | 140                                                                                    |
| 145 | 49.1                                                                                  | 361.2                                                                               | 144,100                                                                              | 220,100                                                                                                                                                                           | 52.4                                                                                                                                                                              | 366.9                                                                                 | 134,200                                                                              | 212,700                                                                                                                                                                           | 57.2                                                                                                                                                                              | 373.6                                                                                   | 119,500                                                                                | 201,600                                                                                                                                                                               |                                                                                                                                                                                       |  | 145                                                                                    |
| 150 | 46.8                                                                                  | 356.4                                                                               | 137,000                                                                              | 210,800                                                                                                                                                                           | 50.3                                                                                                                                                                              | 362.7                                                                                 | 127,600                                                                              | 203,600                                                                                                                                                                           | 55.2                                                                                                                                                                              | 370.1                                                                                   | 113,400                                                                                | 192,900                                                                                                                                                                               |                                                                                                                                                                                       |  | 150                                                                                    |
| 155 | 44.4                                                                                  | 351.3                                                                               | 130,400                                                                              | 202,200                                                                                                                                                                           | 48.0                                                                                                                                                                              | 358.1                                                                                 | 121,300                                                                              | 195,200                                                                                                                                                                           | 53.1                                                                                                                                                                              | 366.3                                                                                   | 107,600                                                                                | 184,900                                                                                                                                                                               |                                                                                                                                                                                       |  | 155                                                                                    |
| 160 | 41.9                                                                                  | 345.6                                                                               | 124,200                                                                              | 194,000                                                                                                                                                                           | 45.7                                                                                                                                                                              | 353.2                                                                                 | 115,400                                                                              | 187,300                                                                                                                                                                           | 50.9                                                                                                                                                                              | 362.1                                                                                   | 102,200                                                                                | 177,300                                                                                                                                                                               |                                                                                                                                                                                       |  | 160                                                                                    |
| 165 | 39.3                                                                                  | 339.5                                                                               | 118,400                                                                              | 186,400                                                                                                                                                                           | 43.3                                                                                                                                                                              | 347.9                                                                                 | 109,900                                                                              | 179,900                                                                                                                                                                           | 48.7                                                                                                                                                                              | 357.7                                                                                   | 97,200                                                                                 | 170,300                                                                                                                                                                               |                                                                                                                                                                                       |  | 165                                                                                    |
| 170 | 36.6                                                                                  | 332.7                                                                               | 112,900                                                                              | 179,300                                                                                                                                                                           | 40.8                                                                                                                                                                              | 342.0                                                                                 | 104,700                                                                              | 173,000                                                                                                                                                                           | 46.5                                                                                                                                                                              | 352.9                                                                                   | 92,400                                                                                 | 163,700                                                                                                                                                                               |                                                                                                                                                                                       |  | 170                                                                                    |
| 175 | 33.6                                                                                  | 325.2                                                                               | 107,700                                                                              | 172,500                                                                                                                                                                           | 38.1                                                                                                                                                                              | 335.6                                                                                 | 99,800                                                                               | 166,500                                                                                                                                                                           | 44.1                                                                                                                                                                              | 347.7                                                                                   | 87,900                                                                                 | 157,400                                                                                                                                                                               |                                                                                                                                                                                       |  | 175                                                                                    |
| 180 | 30.3                                                                                  | 316.7                                                                               | 102,800                                                                              | 166,100                                                                                                                                                                           | 35.3                                                                                                                                                                              | 328.5                                                                                 | 95,100                                                                               | 160,300                                                                                                                                                                           | 41.6                                                                                                                                                                              | 342.0                                                                                   | 83,600                                                                                 | 151,500                                                                                                                                                                               |                                                                                                                                                                                       |  | 180                                                                                    |
| 185 | 26.7                                                                                  | 307.0                                                                               | 98,000                                                                               | 160,100                                                                                                                                                                           | 32.2                                                                                                                                                                              | 320.6                                                                                 | 90,700                                                                               | 154,400                                                                                                                                                                           | 39.0                                                                                                                                                                              | 335.8                                                                                   | 79,500                                                                                 | 146,000                                                                                                                                                                               |                                                                                                                                                                                       |  | 185                                                                                    |
| 190 | 22.5                                                                                  | 295.3                                                                               | 93,500                                                                               | 154,400                                                                                                                                                                           | 28.8                                                                                                                                                                              | 311.6                                                                                 | 86,400                                                                               | 148,900                                                                                                                                                                           | 36.2                                                                                                                                                                              | 328.9                                                                                   | 75,700                                                                                 | 140,700                                                                                                                                                                               |                                                                                                                                                                                       |  | 190                                                                                    |
| 195 | 17.3                                                                                  | 280.3                                                                               | 89,100                                                                               | 148,900                                                                                                                                                                           | 24.9                                                                                                                                                                              | 301.1                                                                                 | 82,400                                                                               | 143,600                                                                                                                                                                           | 33.2                                                                                                                                                                              | 321.3                                                                                   | 72,000                                                                                 | 135,700                                                                                                                                                                               |                                                                                                                                                                                       |  | 195                                                                                    |
| 200 | 9.3                                                                                   | 256.5                                                                               | 84,600                                                                               | 143,500                                                                                                                                                                           | 20.4                                                                                                                                                                              | 288.2                                                                                 | 78,400                                                                               | 138,600                                                                                                                                                                           | 29.9                                                                                                                                                                              | 312.6                                                                                   | 68,400                                                                                 | 130,900                                                                                                                                                                               |                                                                                                                                                                                       |  | 200                                                                                    |
| 205 |                                                                                       |                                                                                     |                                                                                      |                                                                                                                                                                                   | 14.3                                                                                                                                                                              | 270.6                                                                                 | 74,500                                                                               | 133,700                                                                                                                                                                           | 26.2                                                                                                                                                                              | 302.6                                                                                   | 65,000                                                                                 | 126,400                                                                                                                                                                               |                                                                                                                                                                                       |  | 205                                                                                    |
| 210 |                                                                                       |                                                                                     |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                      |                                                                                                                                                                                   | 21.9                                                                                                                                                                              | 290.6                                                                                   | 61,700                                                                                 | 122,000                                                                                                                                                                               |                                                                                                                                                                                       |  | 210                                                                                    |
| 215 |                                                                                       |                                                                                     |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                      |                                                                                                                                                                                   | 16.5                                                                                                                                                                              | 275.0                                                                                   | 58,400                                                                                 | 117,800                                                                                                                                                                               |                                                                                                                                                                                       |  | 215                                                                                    |
| 220 |                                                                                       |                                                                                     |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                      |                                                                                                                                                                                   | 7.4                                                                                                                                                                               | 247.9                                                                                   | 54,900                                                                                 | 113,600                                                                                                                                                                               |                                                                                                                                                                                       |  | 220                                                                                    |
| 225 |                                                                                       |                                                                                     |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                         |                                                                                        |                                                                                                                                                                                       |                                                                                                                                                                                       |  | 225                                                                                    |
| 230 |                                                                                       |                                                                                     |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                         |                                                                                        |                                                                                                                                                                                       |                                                                                                                                                                                       |  | 230                                                                                    |
| 240 |                                                                                       |                                                                                     |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                         |                                                                                        |                                                                                                                                                                                       |                                                                                                                                                                                       |  | 240                                                                                    |
| 250 |                                                                                       |                                                                                     |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                         |                                                                                        |                                                                                                                                                                                       |                                                                                                                                                                                       |  | 250                                                                                    |
| 260 |                                                                                       |                                                                                     |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                         |                                                                                        |                                                                                                                                                                                       |                                                                                                                                                                                       |  | 260                                                                                    |
| 270 |                                                                                       |                                                                                     |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                         |                                                                                        |                                                                                                                                                                                       |                                                                                                                                                                                       |  | 270                                                                                    |

# MLC650 VPC-MAX S-1

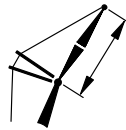
ASME B30.5



440,900 lb



223.1 ft

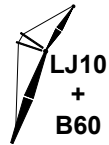


173.9 ft

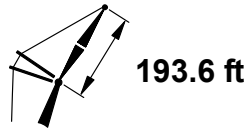
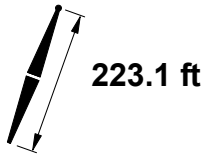
|     | 75°  |       |        |         | 70°  |       |        |         | 65°  |       |        |     |
|-----|------|-------|--------|---------|------|-------|--------|---------|------|-------|--------|-----|
|     | ft   | °     | ft     | lb      | lb   | ft    | lb     | lb      | ft   | °     | ft     | lb  |
| 80  |      |       |        |         |      |       |        |         |      |       |        | 80  |
| 85  |      |       |        |         |      |       |        |         |      |       |        | 85  |
| 90  |      |       |        |         |      |       |        |         |      |       |        | 90  |
| 95  |      |       |        |         |      |       |        |         |      |       |        | 95  |
| 100 |      |       |        |         |      |       |        |         |      |       |        | 100 |
| 105 |      |       |        |         |      |       |        |         |      |       |        | 105 |
| 110 |      |       |        |         |      |       |        |         |      |       |        | 110 |
| 115 |      |       |        |         |      |       |        |         |      |       |        | 115 |
| 120 |      |       |        |         |      |       |        |         |      |       |        | 120 |
| 125 |      |       |        |         |      |       |        |         |      |       |        | 125 |
| 130 |      |       |        |         |      |       |        |         |      |       |        | 130 |
| 135 |      |       |        |         |      |       |        |         |      |       |        | 135 |
| 140 |      |       |        |         |      |       |        |         |      |       |        | 140 |
| 145 | 64.4 | 380.4 | 95,300 | 183,300 |      |       |        |         |      |       |        | 145 |
| 150 | 62.6 | 377.7 | 90,000 | 175,300 |      |       |        |         |      |       |        | 150 |
| 155 | 60.7 | 374.9 | 85,100 | 167,800 |      |       |        |         |      |       |        | 155 |
| 160 | 58.7 | 371.8 | 80,500 | 160,900 |      |       |        |         |      |       |        | 160 |
| 165 | 56.8 | 368.4 | 76,100 | 154,400 |      |       |        |         |      |       |        | 165 |
| 170 | 54.7 | 364.8 | 72,000 | 148,300 |      |       |        |         |      |       |        | 170 |
| 175 | 52.7 | 361.0 | 68,200 | 142,500 |      |       |        |         |      |       |        | 175 |
| 180 | 50.5 | 356.8 | 64,500 | 137,100 | 58.2 | 364.7 | 45,700 | 122,900 |      |       |        | 180 |
| 185 | 48.3 | 352.3 | 61,000 | 131,900 | 56.2 | 361.3 | 42,800 | 118,200 |      |       |        | 185 |
| 190 | 46.0 | 347.4 | 57,700 | 127,100 | 54.1 | 357.6 | 40,000 | 113,700 |      |       |        | 190 |
| 195 | 43.6 | 342.1 | 54,600 | 122,500 | 52.0 | 353.6 | 37,400 | 109,500 |      |       |        | 195 |
| 200 | 41.1 | 336.3 | 51,600 | 118,100 | 49.9 | 349.4 | 34,900 | 105,500 |      |       |        | 200 |
| 205 | 38.4 | 330.0 | 48,700 | 113,900 | 47.6 | 344.7 | 32,500 | 101,600 |      |       |        | 205 |
| 210 | 35.6 | 323.0 | 46,000 | 109,900 | 45.3 | 339.7 | 30,200 | 98,000  | 53.3 | 348.3 | 86,400 | 210 |
| 215 | 32.5 | 315.1 | 43,300 | 106,100 | 42.9 | 334.3 | 28,000 | 94,500  | 51.1 | 344.2 | 83,200 | 215 |
| 220 | 29.2 | 306.3 | 40,700 | 102,500 | 40.3 | 328.4 | 25,900 | 91,200  | 48.9 | 339.8 | 80,200 | 220 |
| 225 | 25.4 | 295.9 | 38,300 | 99,000  | 37.6 | 321.8 | 23,800 | 88,000  | 46.7 | 335.0 | 77,300 | 225 |
| 230 | 20.9 | 283.3 | 35,800 | 95,600  | 34.7 | 314.6 | 21,900 | 85,000  | 44.3 | 329.8 | 74,500 | 230 |
| 240 |      |       |        |         | 28.1 | 297.2 |        | 79,200  | 39.2 | 318.0 | 69,300 | 240 |
| 250 |      |       |        |         | 19.4 | 272.8 |        | 73,800  | 33.4 | 303.6 | 64,400 | 250 |
| 260 |      |       |        |         |      |       |        |         | 26.5 | 285.2 | 59,900 | 260 |
| 270 |      |       |        |         |      |       |        |         | 17.0 | 258.2 | 55,600 | 270 |

# MLC650 VPC-MAX S-1

ASME B30.5



440,900 lb



|     | 85°  |       |         |         | 83°  |       |         |         | 80°  |       |         |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|---------|---------|-----|
|     |      |       |         |         |      |       |         |         |      |       |         |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | ft  |
| 85  | 74.1 | 417.7 | 264,000 | 264,000 |      |       |         |         |      |       |         |         | 85  |
| 90  | 72.5 | 416.1 | 264,000 | 264,000 |      |       |         |         |      |       |         |         | 90  |
| 95  | 71.0 | 414.3 | 253,100 | 263,700 |      |       |         |         |      |       |         |         | 95  |
| 100 | 69.4 | 412.4 | 236,700 | 262,900 | 71.8 | 414.4 | 221,600 | 263,200 |      |       |         |         | 100 |
| 105 | 67.8 | 410.3 | 221,900 | 261,600 | 70.3 | 412.5 | 207,600 | 263,200 |      |       |         |         | 105 |
| 110 | 66.2 | 408.0 | 208,500 | 260,100 | 68.7 | 410.5 | 194,900 | 263,200 |      |       |         |         | 110 |
| 115 | 64.5 | 405.6 | 196,300 | 258,300 | 67.1 | 408.3 | 183,300 | 263,200 |      |       |         |         | 115 |
| 120 | 62.8 | 402.9 | 185,200 | 254,400 | 65.4 | 406.0 | 172,800 | 263,200 | 69.2 | 409.2 | 154,300 | 252,800 | 120 |
| 125 | 61.1 | 400.1 | 174,900 | 245,900 | 63.8 | 403.5 | 163,100 | 253,400 | 67.6 | 407.1 | 145,400 | 240,100 | 125 |
| 130 | 59.4 | 397.1 | 165,500 | 237,400 | 62.1 | 400.8 | 154,100 | 241,200 | 65.9 | 404.8 | 137,200 | 228,400 | 130 |
| 135 | 57.7 | 393.9 | 156,800 | 228,800 | 60.4 | 397.9 | 145,900 | 230,000 | 64.3 | 402.4 | 129,600 | 217,700 | 135 |
| 140 | 55.9 | 390.5 | 148,700 | 220,300 | 58.6 | 394.8 | 138,200 | 219,600 | 62.6 | 399.7 | 122,600 | 207,700 | 140 |
| 145 | 54.0 | 386.8 | 141,200 | 212,000 | 56.9 | 391.5 | 131,100 | 209,900 | 60.9 | 396.9 | 116,000 | 198,500 | 145 |
| 150 | 52.1 | 382.8 | 134,200 | 203,900 | 55.0 | 387.9 | 124,500 | 200,900 | 59.2 | 393.9 | 109,900 | 189,900 | 150 |
| 155 | 50.2 | 378.6 | 127,700 | 196,100 | 53.2 | 384.1 | 118,300 | 192,600 | 57.4 | 390.6 | 104,200 | 182,000 | 155 |
| 160 | 48.2 | 374.1 | 121,600 | 188,500 | 51.3 | 380.0 | 112,500 | 184,700 | 55.6 | 387.1 | 98,900  | 174,500 | 160 |
| 165 | 46.1 | 369.2 | 115,800 | 181,300 | 49.3 | 375.7 | 107,000 | 177,400 | 53.8 | 383.4 | 93,900  | 167,500 | 165 |
| 170 | 44.0 | 364.0 | 110,400 | 174,500 | 47.3 | 371.0 | 101,900 | 170,500 | 51.9 | 379.4 | 89,100  | 160,900 | 170 |
| 175 | 41.8 | 358.4 | 105,200 | 168,100 | 45.2 | 366.0 | 97,000  | 164,000 | 49.9 | 375.2 | 84,700  | 154,700 | 175 |
| 180 | 39.4 | 352.3 | 100,400 | 162,100 | 43.0 | 360.6 | 92,400  | 157,900 | 47.9 | 370.6 | 80,500  | 148,900 | 180 |
| 185 | 37.0 | 345.6 | 95,800  | 156,600 | 40.7 | 354.8 | 88,000  | 152,100 | 45.9 | 365.7 | 76,500  | 143,400 | 185 |
| 190 | 34.4 | 338.3 | 91,400  | 151,500 | 38.3 | 348.4 | 83,900  | 146,600 | 43.7 | 360.4 | 72,700  | 138,200 | 190 |
| 195 | 31.5 | 330.2 | 87,200  | 147,000 | 35.8 | 341.5 | 80,000  | 141,500 | 41.5 | 354.7 | 69,100  | 133,200 | 195 |
| 200 | 28.4 | 321.0 | 83,200  | 141,900 | 33.1 | 333.8 | 76,200  | 136,500 | 39.1 | 348.6 | 65,600  | 128,500 | 200 |
| 205 | 25.0 | 310.5 | 79,400  | 137,000 | 30.2 | 325.3 | 72,600  | 131,800 | 36.6 | 341.8 | 62,400  | 124,000 | 205 |
| 210 | 21.0 | 297.9 | 75,700  | 132,400 | 26.9 | 315.6 | 69,100  | 127,300 | 34.0 | 334.4 | 59,200  | 119,800 | 210 |
| 215 | 16.0 | 281.7 | 72,000  | 127,900 | 23.3 | 304.2 | 65,800  | 123,000 | 31.1 | 326.2 | 56,200  | 115,700 | 215 |
| 220 | 8.0  | 255.2 | 68,200  | 123,500 | 18.9 | 290.3 | 62,500  | 118,900 | 28.0 | 316.8 | 53,300  | 111,800 | 220 |
| 225 |      |       |         |         | 13.1 | 271.2 | 59,200  | 114,900 | 24.5 | 306.1 | 50,400  | 108,100 | 225 |
| 230 |      |       |         |         |      |       |         |         | 20.4 | 293.1 | 47,700  | 104,500 | 230 |
| 240 |      |       |         |         |      |       |         |         | 5.9  | 245.3 | 41,900  | 97,400  | 240 |
| 250 |      |       |         |         |      |       |         |         |      |       |         |         | 250 |
| 260 |      |       |         |         |      |       |         |         |      |       |         |         | 260 |
| 270 |      |       |         |         |      |       |         |         |      |       |         |         | 270 |
| 280 |      |       |         |         |      |       |         |         |      |       |         |         | 280 |
| 290 |      |       |         |         |      |       |         |         |      |       |         |         | 290 |

# MLC650 VPC-MAX S-1

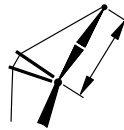
ASME B30.5



440,900 lb



223.1 ft

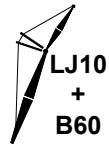


193.6 ft

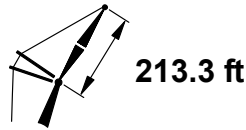
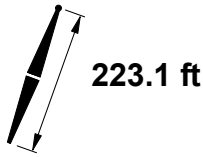
|     | 75°  |       |        |         | 70°  |       |        |         | 65°  |       |        |     |
|-----|------|-------|--------|---------|------|-------|--------|---------|------|-------|--------|-----|
|     |      |       |        |         |      |       |        |         |      |       |        |     |
| ft  | °    | ft    | lb     | lb      | °    | ft    | lb     | lb      | °    | ft    | lb     | ft  |
| 85  |      |       |        |         |      |       |        |         |      |       |        | 85  |
| 90  |      |       |        |         |      |       |        |         |      |       |        | 90  |
| 95  |      |       |        |         |      |       |        |         |      |       |        | 95  |
| 100 |      |       |        |         |      |       |        |         |      |       |        | 100 |
| 105 |      |       |        |         |      |       |        |         |      |       |        | 105 |
| 110 |      |       |        |         |      |       |        |         |      |       |        | 110 |
| 115 |      |       |        |         |      |       |        |         |      |       |        | 115 |
| 120 |      |       |        |         |      |       |        |         |      |       |        | 120 |
| 125 |      |       |        |         |      |       |        |         |      |       |        | 125 |
| 130 |      |       |        |         |      |       |        |         |      |       |        | 130 |
| 135 |      |       |        |         |      |       |        |         |      |       |        | 135 |
| 140 |      |       |        |         |      |       |        |         |      |       |        | 140 |
| 145 |      |       |        |         |      |       |        |         |      |       |        | 145 |
| 150 |      |       |        |         |      |       |        |         |      |       |        | 150 |
| 155 | 63.9 | 397.4 | 81,100 | 164,500 |      |       |        |         |      |       |        | 155 |
| 160 | 62.3 | 394.7 | 76,500 | 157,600 |      |       |        |         |      |       |        | 160 |
| 165 | 60.6 | 391.8 | 72,200 | 151,200 |      |       |        |         |      |       |        | 165 |
| 170 | 58.8 | 388.7 | 68,200 | 145,100 |      |       |        |         |      |       |        | 170 |
| 175 | 57.0 | 385.4 | 64,400 | 139,400 |      |       |        |         |      |       |        | 175 |
| 180 | 55.2 | 381.9 | 60,800 | 134,000 |      |       |        |         |      |       |        | 180 |
| 185 | 53.4 | 378.1 | 57,400 | 129,000 |      |       |        |         |      |       |        | 185 |
| 190 | 51.5 | 374.1 | 54,100 | 124,200 | 58.3 | 381.6 | 35,900 | 110,500 |      |       |        | 190 |
| 195 | 49.5 | 369.8 | 51,000 | 119,600 | 56.5 | 378.3 | 33,300 | 106,300 |      |       |        | 195 |
| 200 | 47.5 | 365.2 | 48,100 | 115,300 | 54.7 | 374.7 | 30,900 | 102,300 |      |       |        | 200 |
| 205 | 45.4 | 360.2 | 45,300 | 111,200 | 52.8 | 370.8 | 28,500 | 98,500  |      |       |        | 205 |
| 210 | 43.3 | 354.8 | 42,600 | 107,200 | 50.9 | 366.7 | 26,300 | 95,000  |      |       |        | 210 |
| 215 | 41.0 | 349.0 | 40,100 | 103,500 | 48.9 | 362.3 | 24,200 | 91,500  |      |       |        | 215 |
| 220 | 38.6 | 342.8 | 37,600 | 99,900  | 46.9 | 357.6 | 22,100 | 88,300  | 53.9 | 365.4 | 76,900 | 220 |
| 225 | 36.1 | 335.9 | 35,300 | 96,500  | 44.8 | 352.5 | 20,200 | 85,100  | 52.0 | 361.4 | 74,100 | 225 |
| 230 | 33.4 | 328.3 | 33,000 | 93,200  | 42.6 | 347.0 |        | 82,200  | 50.1 | 357.2 | 71,300 | 230 |
| 240 | 27.3 | 310.3 | 28,600 | 87,100  | 37.9 | 334.7 |        | 76,500  | 46.0 | 347.8 | 66,200 | 240 |
| 250 | 19.4 | 285.6 | 24,500 | 81,300  | 32.6 | 319.8 |        | 71,300  | 41.7 | 336.9 | 61,500 | 250 |
| 260 |      |       |        |         | 26.3 | 301.1 |        | 66,500  | 36.8 | 324.1 | 57,100 | 260 |
| 270 |      |       |        |         | 18.0 | 274.8 |        | 61,900  | 31.4 | 308.6 | 53,000 | 270 |
| 280 |      |       |        |         |      |       |        |         | 24.8 | 288.7 | 49,200 | 280 |
| 290 |      |       |        |         |      |       |        |         | 15.7 | 259.6 | 45,400 | 290 |

# MLC650 VPC-MAX S-1

ASME B30.5



440,900 lb



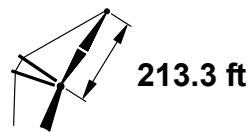
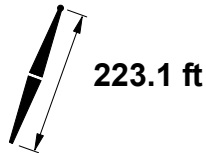
|     | 85°  |       |         |         | 83°  |       |         |         | 80°  |       |         |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|---------|---------|-----|
|     |      |       |         |         |      |       |         |         |      |       |         |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | ft  |
| 90  | 74.2 | 436.7 | 229,700 | 229,700 |      |       |         |         |      |       |         |         | 90  |
| 95  | 72.8 | 435.1 | 229,700 | 229,700 |      |       |         |         |      |       |         |         | 95  |
| 100 | 71.4 | 433.4 | 229,300 | 229,300 |      |       |         |         |      |       |         |         | 100 |
| 105 | 69.9 | 431.5 | 218,800 | 228,700 | 72.2 | 433.5 | 204,100 | 228,900 |      |       |         |         | 105 |
| 110 | 68.5 | 429.5 | 205,400 | 227,700 | 70.7 | 431.7 | 191,500 | 228,900 |      |       |         |         | 110 |
| 115 | 67.0 | 427.4 | 193,200 | 226,600 | 69.3 | 429.7 | 179,900 | 228,900 |      |       |         |         | 115 |
| 120 | 65.5 | 425.0 | 182,100 | 225,300 | 67.8 | 427.6 | 169,400 | 228,900 |      |       |         |         | 120 |
| 125 | 64.0 | 422.6 | 171,900 | 223,800 | 66.4 | 425.4 | 159,700 | 228,900 | 69.7 | 428.4 | 141,700 | 224,000 | 125 |
| 130 | 62.5 | 419.9 | 162,500 | 220,300 | 64.9 | 423.0 | 150,800 | 228,400 | 68.3 | 426.4 | 133,500 | 224,000 | 130 |
| 135 | 61.0 | 417.1 | 153,800 | 213,500 | 63.4 | 420.5 | 142,600 | 227,000 | 66.8 | 424.2 | 125,900 | 214,500 | 135 |
| 140 | 59.4 | 414.1 | 145,800 | 206,600 | 61.8 | 417.7 | 135,000 | 216,700 | 65.3 | 421.9 | 119,000 | 204,600 | 140 |
| 145 | 57.8 | 410.9 | 138,300 | 199,700 | 60.3 | 414.8 | 127,900 | 207,100 | 63.8 | 419.4 | 112,500 | 195,500 | 145 |
| 150 | 56.2 | 407.5 | 131,300 | 192,800 | 58.7 | 411.7 | 121,300 | 198,200 | 62.3 | 416.7 | 106,400 | 187,000 | 150 |
| 155 | 54.5 | 403.9 | 124,800 | 186,100 | 57.1 | 408.5 | 115,100 | 189,800 | 60.8 | 413.9 | 100,700 | 179,000 | 155 |
| 160 | 52.9 | 400.0 | 118,700 | 179,400 | 55.5 | 405.0 | 109,400 | 182,000 | 59.2 | 410.8 | 95,400  | 171,600 | 160 |
| 165 | 51.1 | 396.0 | 113,000 | 173,000 | 53.8 | 401.3 | 103,900 | 174,800 | 57.6 | 407.6 | 90,500  | 164,600 | 165 |
| 170 | 49.3 | 391.6 | 107,600 | 166,700 | 52.1 | 397.3 | 98,800  | 167,900 | 56.0 | 404.2 | 85,800  | 158,100 | 170 |
| 175 | 47.5 | 387.0 | 102,500 | 160,700 | 50.3 | 393.1 | 94,000  | 161,500 | 54.3 | 400.5 | 81,400  | 152,000 | 175 |
| 180 | 45.6 | 382.1 | 97,700  | 155,000 | 48.5 | 388.7 | 89,500  | 155,400 | 52.6 | 396.7 | 77,200  | 146,200 | 180 |
| 185 | 43.7 | 376.8 | 93,100  | 149,500 | 46.7 | 383.9 | 85,100  | 149,600 | 50.9 | 392.6 | 73,200  | 140,700 | 185 |
| 190 | 41.6 | 371.1 | 88,800  | 144,400 | 44.8 | 378.8 | 81,100  | 144,200 | 49.1 | 388.2 | 69,500  | 135,500 | 190 |
| 195 | 39.5 | 365.0 | 84,700  | 139,500 | 42.8 | 373.4 | 77,200  | 139,100 | 47.3 | 383.5 | 65,900  | 130,600 | 195 |
| 200 | 37.3 | 358.5 | 80,800  | 135,000 | 40.7 | 367.5 | 73,500  | 134,200 | 45.4 | 378.5 | 62,500  | 125,900 | 200 |
| 205 | 35.0 | 351.3 | 77,100  | 130,800 | 38.5 | 361.2 | 69,900  | 129,500 | 43.4 | 373.2 | 59,300  | 121,500 | 205 |
| 210 | 32.5 | 343.5 | 73,500  | 127,000 | 36.3 | 354.4 | 66,600  | 125,100 | 41.4 | 367.5 | 56,200  | 117,300 | 210 |
| 215 | 29.8 | 334.8 | 70,000  | 123,600 | 33.9 | 346.9 | 63,300  | 120,900 | 39.2 | 361.3 | 53,300  | 113,300 | 215 |
| 220 | 26.8 | 325.0 | 66,700  | 120,800 | 31.3 | 338.7 | 60,200  | 116,800 | 37.0 | 354.7 | 50,500  | 109,400 | 220 |
| 225 | 23.5 | 313.8 | 63,600  | 117,800 | 28.5 | 329.6 | 57,300  | 113,000 | 34.6 | 347.4 | 47,700  | 105,800 | 225 |
| 230 | 19.7 | 300.3 | 60,400  | 113,900 | 25.4 | 319.2 | 54,400  | 109,300 | 32.1 | 339.5 | 45,100  | 102,200 | 230 |
| 240 | 6.7  | 253.2 | 54,100  | 106,500 | 17.6 | 292.2 | 48,800  | 102,200 | 26.4 | 320.7 | 40,200  | 95,600  | 240 |
| 250 |      |       |         |         |      |       |         |         | 19.1 | 295.4 | 35,400  | 89,400  | 250 |
| 260 |      |       |         |         |      |       |         |         | 4.2  | 241.1 | 30,300  | 83,400  | 260 |
| 270 |      |       |         |         |      |       |         |         |      |       |         |         | 270 |
| 280 |      |       |         |         |      |       |         |         |      |       |         |         | 280 |
| 290 |      |       |         |         |      |       |         |         |      |       |         |         | 290 |
| 300 |      |       |         |         |      |       |         |         |      |       |         |         | 300 |
| 310 |      |       |         |         |      |       |         |         |      |       |         |         | 310 |

# MLC650 VPC-MAX S-1

ASME B30.5



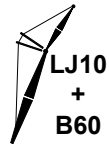
440,900 lb



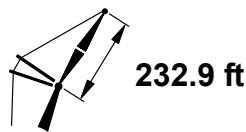
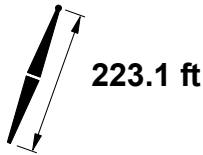
|     | 75°  |       |        |         | 70°  |       |         |      | 65°   |        |    |     |
|-----|------|-------|--------|---------|------|-------|---------|------|-------|--------|----|-----|
|     |      |       |        |         |      |       |         |      |       |        |    |     |
|     | ft   | °     | ft     | lb      | lb   | °     | ft      | lb   | °     | ft     | lb | ft  |
| 90  |      |       |        |         |      |       |         |      |       |        |    | 90  |
| 95  |      |       |        |         |      |       |         |      |       |        |    | 95  |
| 100 |      |       |        |         |      |       |         |      |       |        |    | 100 |
| 105 |      |       |        |         |      |       |         |      |       |        |    | 105 |
| 110 |      |       |        |         |      |       |         |      |       |        |    | 110 |
| 115 |      |       |        |         |      |       |         |      |       |        |    | 115 |
| 120 |      |       |        |         |      |       |         |      |       |        |    | 120 |
| 125 |      |       |        |         |      |       |         |      |       |        |    | 125 |
| 130 |      |       |        |         |      |       |         |      |       |        |    | 130 |
| 135 |      |       |        |         |      |       |         |      |       |        |    | 135 |
| 140 |      |       |        |         |      |       |         |      |       |        |    | 140 |
| 145 |      |       |        |         |      |       |         |      |       |        |    | 145 |
| 150 |      |       |        |         |      |       |         |      |       |        |    | 150 |
| 155 |      |       |        |         |      |       |         |      |       |        |    | 155 |
| 160 |      |       |        |         |      |       |         |      |       |        |    | 160 |
| 165 | 63.5 | 414.3 | 68,300 | 148,000 |      |       |         |      |       |        |    | 165 |
| 170 | 62.0 | 411.6 | 64,300 | 142,000 |      |       |         |      |       |        |    | 170 |
| 175 | 60.5 | 408.8 | 60,500 | 136,300 |      |       |         |      |       |        |    | 175 |
| 180 | 58.9 | 405.7 | 57,000 | 131,000 |      |       |         |      |       |        |    | 180 |
| 185 | 57.3 | 402.4 | 53,600 | 125,900 |      |       |         |      |       |        |    | 185 |
| 190 | 55.6 | 399.0 | 50,400 | 121,200 |      |       |         |      |       |        |    | 190 |
| 195 | 54.0 | 395.3 | 47,400 | 116,700 | 60.0 | 401.7 | 103,000 |      |       |        |    | 195 |
| 200 | 52.3 | 391.4 | 44,500 | 112,400 | 58.4 | 398.6 | 99,100  |      |       |        |    | 200 |
| 205 | 50.5 | 387.2 | 41,800 | 108,300 | 56.8 | 395.3 | 95,400  |      |       |        |    | 205 |
| 210 | 48.7 | 382.8 | 39,100 | 104,400 | 55.2 | 391.8 | 91,800  |      |       |        |    | 210 |
| 215 | 46.9 | 378.0 | 36,600 | 100,700 | 53.5 | 388.0 | 88,500  |      |       |        |    | 215 |
| 220 | 45.0 | 373.0 | 34,200 | 97,200  | 51.8 | 384.0 | 85,200  |      |       |        |    | 220 |
| 225 | 43.0 | 367.6 | 31,900 | 93,800  | 50.0 | 379.8 | 82,200  |      |       |        |    | 225 |
| 230 | 40.9 | 361.8 | 29,700 | 90,600  | 48.2 | 375.3 | 79,200  | 54.5 | 382.5 | 68,100 |    | 230 |
| 240 | 36.5 | 348.8 | 25,500 | 84,600  | 44.4 | 365.3 | 73,700  | 51.0 | 374.6 | 63,100 |    | 240 |
| 250 | 31.6 | 333.3 | 21,600 | 79,000  | 40.3 | 353.9 | 68,600  | 47.4 | 365.6 | 58,500 |    | 250 |
| 260 | 25.7 | 314.0 |        | 73,800  | 35.8 | 340.5 | 63,900  | 43.6 | 355.3 | 54,200 |    | 260 |
| 270 | 18.2 | 287.7 |        | 68,800  | 30.8 | 324.6 | 59,400  | 39.4 | 343.5 | 50,200 |    | 270 |
| 280 |      |       |        |         | 24.8 | 304.6 | 55,300  | 34.8 | 329.7 | 46,500 |    | 280 |
| 290 |      |       |        |         | 16.7 | 276.5 | 51,300  | 29.6 | 313.1 | 43,000 |    | 290 |
| 300 |      |       |        |         |      |       |         | 23.3 | 291.9 | 39,600 |    | 300 |
| 310 |      |       |        |         |      |       |         | 14.5 | 260.6 | 36,400 |    | 310 |

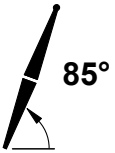
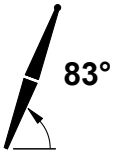
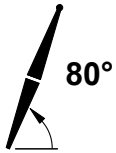
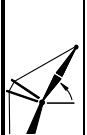
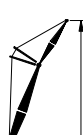
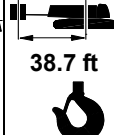
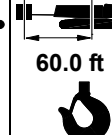
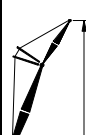
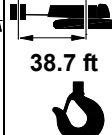
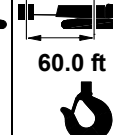
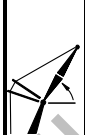
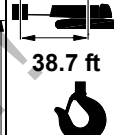
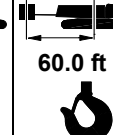
# MLC650 VPC-MAX S-1

ASME B30.5



440,900 lb



| <br>85° |                                                                                        |                                                                                         |                                                                                         |                                                                                         | <br>83° |                                                                                         |                                                                                         |                                                                                         |                                                                                         | <br>80° |                                                                                           |                                                                                           |                                                                                           |  |  |
|------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--|--|
| <br>ft   | <br>° | <br>ft | <br>lb | <br>lb | <br>°   | <br>ft | <br>lb | <br>lb | <br>° | <br>ft  | <br>lb | <br>lb | <br>ft |  |  |
| 95                                                                                       | 74.3                                                                                   | 455.8                                                                                   | 199,900                                                                                 | 199,900                                                                                 |                                                                                          |                                                                                         |                                                                                         |                                                                                         |                                                                                         |                                                                                            |                                                                                           |                                                                                           | 95                                                                                        |  |  |
| 100                                                                                      | 73.0                                                                                   | 454.2                                                                                   | 199,700                                                                                 | 199,700                                                                                 |                                                                                          |                                                                                         |                                                                                         |                                                                                         |                                                                                         |                                                                                            |                                                                                           |                                                                                           | 100                                                                                       |  |  |
| 105                                                                                      | 71.7                                                                                   | 452.5                                                                                   | 199,300                                                                                 | 199,300                                                                                 |                                                                                          |                                                                                         |                                                                                         |                                                                                         |                                                                                         |                                                                                            |                                                                                           |                                                                                           | 105                                                                                       |  |  |
| 110                                                                                      | 70.4                                                                                   | 450.7                                                                                   | 198,800                                                                                 | 198,800                                                                                 | 72.4                                                                                     | 452.5                                                                                   | 189,100                                                                                 | 198,400                                                                                 |                                                                                         |                                                                                            |                                                                                           |                                                                                           | 110                                                                                       |  |  |
| 115                                                                                      | 69.1                                                                                   | 448.7                                                                                   | 191,100                                                                                 | 198,100                                                                                 | 71.1                                                                                     | 450.8                                                                                   | 177,600                                                                                 | 198,400                                                                                 |                                                                                         |                                                                                            |                                                                                           |                                                                                           | 115                                                                                       |  |  |
| 120                                                                                      | 67.8                                                                                   | 446.7                                                                                   | 180,000                                                                                 | 197,200                                                                                 | 69.8                                                                                     | 448.9                                                                                   | 167,100                                                                                 | 198,400                                                                                 |                                                                                         |                                                                                            |                                                                                           |                                                                                           | 120                                                                                       |  |  |
| 125                                                                                      | 66.4                                                                                   | 444.4                                                                                   | 169,800                                                                                 | 196,300                                                                                 | 68.5                                                                                     | 446.9                                                                                   | 157,400                                                                                 | 198,400                                                                                 |                                                                                         |                                                                                            |                                                                                           |                                                                                           | 125                                                                                       |  |  |
| 130                                                                                      | 65.0                                                                                   | 442.1                                                                                   | 160,400                                                                                 | 195,300                                                                                 | 67.1                                                                                     | 444.7                                                                                   | 148,600                                                                                 | 198,400                                                                                 |                                                                                         |                                                                                            |                                                                                           |                                                                                           | 130                                                                                       |  |  |
| 135                                                                                      | 63.7                                                                                   | 439.5                                                                                   | 151,800                                                                                 | 194,200                                                                                 | 65.8                                                                                     | 442.5                                                                                   | 140,400                                                                                 | 198,000                                                                                 | 68.9                                                                                    | 445.6                                                                                      | 123,400                                                                                   | 194,000                                                                                   | 135                                                                                       |  |  |
| 140                                                                                      | 62.3                                                                                   | 436.9                                                                                   | 143,700                                                                                 | 192,600                                                                                 | 64.4                                                                                     | 440.0                                                                                   | 132,800                                                                                 | 197,500                                                                                 | 67.6                                                                                    | 443.5                                                                                      | 116,400                                                                                   | 194,000                                                                                   | 140                                                                                       |  |  |
| 145                                                                                      | 60.9                                                                                   | 434.0                                                                                   | 136,300                                                                                 | 187,100                                                                                 | 63.0                                                                                     | 437.4                                                                                   | 125,700                                                                                 | 196,900                                                                                 | 66.2                                                                                    | 441.3                                                                                      | 109,900                                                                                   | 193,200                                                                                   | 145                                                                                       |  |  |
| 150                                                                                      | 59.4                                                                                   | 431.0                                                                                   | 129,300                                                                                 | 181,600                                                                                 | 61.6                                                                                     | 434.7                                                                                   | 119,100                                                                                 | 196,100                                                                                 | 64.9                                                                                    | 438.9                                                                                      | 103,900                                                                                   | 184,700                                                                                   | 150                                                                                       |  |  |
| 155                                                                                      | 58.0                                                                                   | 427.9                                                                                   | 122,800                                                                                 | 175,900                                                                                 | 60.2                                                                                     | 431.8                                                                                   | 113,000                                                                                 | 187,800                                                                                 | 63.5                                                                                    | 436.4                                                                                      | 98,300                                                                                    | 176,800                                                                                   | 155                                                                                       |  |  |
| 160                                                                                      | 56.5                                                                                   | 424.5                                                                                   | 116,800                                                                                 | 170,400                                                                                 | 58.8                                                                                     | 428.7                                                                                   | 107,200                                                                                 | 180,100                                                                                 | 62.1                                                                                    | 433.7                                                                                      | 93,000                                                                                    | 169,500                                                                                   | 160                                                                                       |  |  |
| 165                                                                                      | 55.0                                                                                   | 421.0                                                                                   | 111,100                                                                                 | 164,900                                                                                 | 57.3                                                                                     | 425.4                                                                                   | 101,800                                                                                 | 172,800                                                                                 | 60.7                                                                                    | 430.8                                                                                      | 88,100                                                                                    | 162,500                                                                                   | 165                                                                                       |  |  |
| 170                                                                                      | 53.4                                                                                   | 417.2                                                                                   | 105,700                                                                                 | 159,400                                                                                 | 55.8                                                                                     | 422.0                                                                                   | 96,700                                                                                  | 166,000                                                                                 | 59.2                                                                                    | 427.8                                                                                      | 83,400                                                                                    | 156,000                                                                                   | 170                                                                                       |  |  |
| 175                                                                                      | 51.9                                                                                   | 413.2                                                                                   | 100,600                                                                                 | 154,000                                                                                 | 54.3                                                                                     | 418.4                                                                                   | 92,000                                                                                  | 159,600                                                                                 | 57.8                                                                                    | 424.6                                                                                      | 79,000                                                                                    | 149,900                                                                                   | 175                                                                                       |  |  |
| 180                                                                                      | 50.3                                                                                   | 409.0                                                                                   | 95,800                                                                                  | 148,800                                                                                 | 52.7                                                                                     | 414.5                                                                                   | 87,400                                                                                  | 153,600                                                                                 | 56.3                                                                                    | 421.2                                                                                      | 74,900                                                                                    | 144,200                                                                                   | 180                                                                                       |  |  |
| 185                                                                                      | 48.6                                                                                   | 404.6                                                                                   | 91,300                                                                                  | 143,700                                                                                 | 51.2                                                                                     | 410.5                                                                                   | 83,200                                                                                  | 147,900                                                                                 | 54.8                                                                                    | 417.6                                                                                      | 71,000                                                                                    | 138,700                                                                                   | 185                                                                                       |  |  |
| 190                                                                                      | 46.9                                                                                   | 399.9                                                                                   | 87,000                                                                                  | 138,900                                                                                 | 49.5                                                                                     | 406.1                                                                                   | 79,100                                                                                  | 142,500                                                                                 | 53.2                                                                                    | 413.8                                                                                      | 67,300                                                                                    | 133,600                                                                                   | 190                                                                                       |  |  |
| 195                                                                                      | 45.2                                                                                   | 394.9                                                                                   | 83,000                                                                                  | 134,200                                                                                 | 47.9                                                                                     | 401.6                                                                                   | 75,200                                                                                  | 137,400                                                                                 | 51.7                                                                                    | 409.8                                                                                      | 63,700                                                                                    | 128,700                                                                                   | 195                                                                                       |  |  |
| 200                                                                                      | 43.4                                                                                   | 389.5                                                                                   | 79,100                                                                                  | 129,700                                                                                 | 46.2                                                                                     | 396.7                                                                                   | 71,600                                                                                  | 132,500                                                                                 | 50.0                                                                                    | 405.6                                                                                      | 60,400                                                                                    | 124,100                                                                                   | 200                                                                                       |  |  |
| 205                                                                                      | 41.5                                                                                   | 383.9                                                                                   | 75,400                                                                                  | 125,500                                                                                 | 44.4                                                                                     | 391.6                                                                                   | 68,100                                                                                  | 127,900                                                                                 | 48.4                                                                                    | 401.1                                                                                      | 57,200                                                                                    | 119,700                                                                                   | 205                                                                                       |  |  |
| 210                                                                                      | 39.6                                                                                   | 377.8                                                                                   | 71,900                                                                                  | 121,400                                                                                 | 42.6                                                                                     | 386.1                                                                                   | 64,800                                                                                  | 123,500                                                                                 | 46.7                                                                                    | 396.4                                                                                      | 54,200                                                                                    | 115,500                                                                                   | 210                                                                                       |  |  |
| 215                                                                                      | 37.6                                                                                   | 371.3                                                                                   | 68,500                                                                                  | 117,700                                                                                 | 40.7                                                                                     | 380.3                                                                                   | 61,600                                                                                  | 119,300                                                                                 | 44.9                                                                                    | 391.3                                                                                      | 51,200                                                                                    | 111,500                                                                                   | 215                                                                                       |  |  |
| 220                                                                                      | 35.5                                                                                   | 364.3                                                                                   | 65,300                                                                                  | 114,200                                                                                 | 38.7                                                                                     | 374.0                                                                                   | 58,600                                                                                  | 115,300                                                                                 | 43.1                                                                                    | 386.0                                                                                      | 48,500                                                                                    | 107,700                                                                                   | 220                                                                                       |  |  |
| 225                                                                                      | 33.2                                                                                   | 356.6                                                                                   | 62,200                                                                                  | 111,000                                                                                 | 36.6                                                                                     | 367.3                                                                                   | 55,600                                                                                  | 111,500                                                                                 | 41.3                                                                                    | 380.2                                                                                      | 45,800                                                                                    | 104,100                                                                                   | 225                                                                                       |  |  |
| 230                                                                                      | 30.8                                                                                   | 348.3                                                                                   | 59,200                                                                                  | 108,100                                                                                 | 34.5                                                                                     | 360.0                                                                                   | 52,800                                                                                  | 107,800                                                                                 | 39.3                                                                                    | 374.1                                                                                      | 43,200                                                                                    | 100,600                                                                                   | 230                                                                                       |  |  |
| 240                                                                                      | 25.4                                                                                   | 328.7                                                                                   | 53,600                                                                                  | 103,400                                                                                 | 29.7                                                                                     | 343.3                                                                                   | 47,500                                                                                  | 101,000                                                                                 | 35.2                                                                                    | 360.4                                                                                      | 38,400                                                                                    | 94,100                                                                                    | 240                                                                                       |  |  |
| 250                                                                                      | 18.5                                                                                   | 302.4                                                                                   | 48,200                                                                                  | 98,900                                                                                  | 24.0                                                                                     | 322.6                                                                                   | 42,600                                                                                  | 94,600                                                                                  | 30.5                                                                                    | 344.2                                                                                      | 33,900                                                                                    | 88,100                                                                                    | 250                                                                                       |  |  |
| 260                                                                                      | 5.4                                                                                    | 250.3                                                                                   | 42,700                                                                                  | 92,600                                                                                  | 16.5                                                                                     | 293.9                                                                                   | 37,800                                                                                  | 88,700                                                                                  | 25.0                                                                                    | 324.3                                                                                      | 29,700                                                                                    | 82,500                                                                                    | 260                                                                                       |  |  |
| 270                                                                                      |                                                                                        |                                                                                         |                                                                                         |                                                                                         |                                                                                          |                                                                                         |                                                                                         |                                                                                         | 17.9                                                                                    | 297.4                                                                                      | 25,600                                                                                    | 77,200                                                                                    | 270                                                                                       |  |  |
| 280                                                                                      |                                                                                        |                                                                                         |                                                                                         |                                                                                         |                                                                                          |                                                                                         |                                                                                         |                                                                                         |                                                                                         |                                                                                            |                                                                                           |                                                                                           | 280                                                                                       |  |  |
| 290                                                                                      |                                                                                        |                                                                                         |                                                                                         |                                                                                         |                                                                                          |                                                                                         |                                                                                         |                                                                                         |                                                                                         |                                                                                            |                                                                                           |                                                                                           | 290                                                                                       |  |  |
| 300                                                                                      |                                                                                        |                                                                                         |                                                                                         |                                                                                         |                                                                                          |                                                                                         |                                                                                         |                                                                                         |                                                                                         |                                                                                            |                                                                                           |                                                                                           | 300                                                                                       |  |  |
| 310                                                                                      |                                                                                        |                                                                                         |                                                                                         |                                                                                         |                                                                                          |                                                                                         |                                                                                         |                                                                                         |                                                                                         |                                                                                            |                                                                                           |                                                                                           | 310                                                                                       |  |  |
| 320                                                                                      |                                                                                        |                                                                                         |                                                                                         |                                                                                         |                                                                                          |                                                                                         |                                                                                         |                                                                                         |                                                                                         |                                                                                            |                                                                                           |                                                                                           | 320                                                                                       |  |  |
| 330                                                                                      |                                                                                        |                                                                                         |                                                                                         |                                                                                         |                                                                                          |                                                                                         |                                                                                         |                                                                                         |                                                                                         |                                                                                            |                                                                                           |                                                                                           | 330                                                                                       |  |  |

# MLC650 VPC-MAX S-1

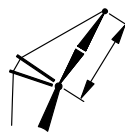
ASME B30.5



440,900 lb



223.1 ft



232.9 ft

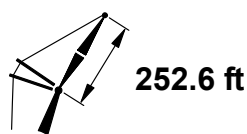
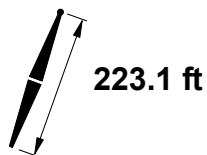
|     | 75°  |       |        |         | 70°  |       |        |      | 65°   |        |    |     |
|-----|------|-------|--------|---------|------|-------|--------|------|-------|--------|----|-----|
|     |      |       |        |         |      |       |        |      |       |        |    |     |
| ft  | °    | ft    | lb     | lb      | °    | ft    | lb     | lb   | °     | ft     | lb | ft  |
| 95  |      |       |        |         |      |       |        |      |       |        |    | 95  |
| 100 |      |       |        |         |      |       |        |      |       |        |    | 100 |
| 105 |      |       |        |         |      |       |        |      |       |        |    | 105 |
| 110 |      |       |        |         |      |       |        |      |       |        |    | 110 |
| 115 |      |       |        |         |      |       |        |      |       |        |    | 115 |
| 120 |      |       |        |         |      |       |        |      |       |        |    | 120 |
| 125 |      |       |        |         |      |       |        |      |       |        |    | 125 |
| 130 |      |       |        |         |      |       |        |      |       |        |    | 130 |
| 135 |      |       |        |         |      |       |        |      |       |        |    | 135 |
| 140 |      |       |        |         |      |       |        |      |       |        |    | 140 |
| 145 |      |       |        |         |      |       |        |      |       |        |    | 145 |
| 150 |      |       |        |         |      |       |        |      |       |        |    | 150 |
| 155 |      |       |        |         |      |       |        |      |       |        |    | 155 |
| 160 |      |       |        |         |      |       |        |      |       |        |    | 160 |
| 165 |      |       |        |         |      |       |        |      |       |        |    | 165 |
| 170 | 64.6 | 433.9 | 61,500 | 139,600 |      |       |        |      |       |        |    | 170 |
| 175 | 63.2 | 431.3 | 57,800 | 134,000 |      |       |        |      |       |        |    | 175 |
| 180 | 61.8 | 428.6 | 54,300 | 128,700 |      |       |        |      |       |        |    | 180 |
| 185 | 60.4 | 425.7 | 50,900 | 123,700 |      |       |        |      |       |        |    | 185 |
| 190 | 58.9 | 422.7 | 47,800 | 119,000 |      |       |        |      |       |        |    | 190 |
| 195 | 57.5 | 419.4 | 44,800 | 114,500 |      |       |        |      |       |        |    | 195 |
| 200 | 56.0 | 416.0 | 41,900 | 110,300 |      |       |        |      |       |        |    | 200 |
| 205 | 54.5 | 412.4 | 39,200 | 106,200 | 60.0 | 418.7 | 93,100 |      |       |        |    | 205 |
| 210 | 52.9 | 408.6 | 36,600 | 102,400 | 58.5 | 415.6 | 89,600 |      |       |        |    | 210 |
| 215 | 51.3 | 404.5 | 34,200 | 98,700  | 57.0 | 412.3 | 86,200 |      |       |        |    | 215 |
| 220 | 49.7 | 400.2 | 31,800 | 95,200  | 55.5 | 408.8 | 83,000 |      |       |        |    | 220 |
| 225 | 48.1 | 395.7 | 29,600 | 91,900  | 54.0 | 405.1 | 80,000 |      |       |        |    | 225 |
| 230 | 46.3 | 390.9 | 27,400 | 88,700  | 52.4 | 401.3 | 77,100 |      |       |        |    | 230 |
| 240 | 42.8 | 380.3 | 23,300 | 82,700  | 49.2 | 392.8 | 71,600 | 54.9 | 399.6 | 60,800 |    | 240 |
| 250 | 38.9 | 368.3 |        | 77,200  | 45.8 | 383.3 | 66,600 | 51.8 | 391.8 | 56,200 |    | 250 |
| 260 | 34.7 | 354.4 |        | 72,100  | 42.2 | 372.5 | 61,900 | 48.5 | 383.2 | 52,000 |    | 260 |
| 270 | 30.0 | 337.9 |        | 67,400  | 38.3 | 360.3 | 57,600 | 45.1 | 373.4 | 48,100 |    | 270 |
| 280 | 24.4 | 317.5 |        | 62,900  | 34.0 | 346.0 | 53,600 | 41.4 | 362.4 | 44,400 |    | 280 |
| 290 | 17.0 | 289.4 |        | 58,700  | 29.2 | 329.1 | 49,800 | 37.5 | 349.8 | 41,000 |    | 290 |
| 300 |      |       |        |         | 23.4 | 307.8 | 46,200 | 33.1 | 335.0 | 37,800 |    | 300 |
| 310 |      |       |        |         | 15.7 | 277.9 | 42,700 | 28.1 | 317.4 | 34,800 |    | 310 |
| 320 |      |       |        |         |      |       |        | 22.0 | 294.9 | 31,900 |    | 320 |
| 330 |      |       |        |         |      |       |        | 13.5 | 261.5 | 29,000 |    | 330 |

# MLC650 VPC-MAX S-1

ASME B30.5



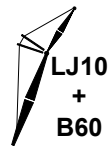
440,900 lb



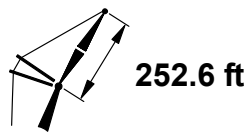
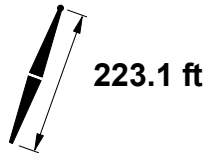
|     | 85°  |       |         |         | 83°  |       |         |         | 80°  |       |         |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|---------|---------|-----|
|     |      |       |         |         |      |       |         |         |      |       |         |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | ft  |
| 100 | 74.4 | 474.8 | 172,100 | 172,100 |      |       |         |         |      |       |         |         | 100 |
| 105 | 73.2 | 473.3 | 172,000 | 172,000 |      |       |         |         |      |       |         |         | 105 |
| 110 | 72.0 | 471.6 | 171,700 | 171,700 |      |       |         |         |      |       |         |         | 110 |
| 115 | 70.8 | 469.8 | 171,200 | 171,200 | 72.7 | 471.6 | 170,400 | 170,400 |      |       |         |         | 115 |
| 120 | 69.6 | 467.9 | 170,700 | 170,700 | 71.5 | 469.9 | 163,300 | 170,400 |      |       |         |         | 120 |
| 125 | 68.4 | 465.9 | 166,300 | 170,100 | 70.2 | 468.1 | 153,700 | 170,400 |      |       |         |         | 125 |
| 130 | 67.1 | 463.8 | 157,000 | 169,300 | 69.0 | 466.1 | 144,800 | 170,400 |      |       |         |         | 130 |
| 135 | 65.9 | 461.5 | 148,300 | 168,600 | 67.8 | 464.0 | 136,700 | 170,300 |      |       |         |         | 135 |
| 140 | 64.6 | 459.1 | 140,300 | 167,700 | 66.6 | 461.8 | 129,100 | 170,000 | 69.4 | 464.8 | 112,400 | 166,000 | 140 |
| 145 | 63.3 | 456.5 | 132,900 | 166,800 | 65.3 | 459.5 | 122,100 | 169,700 | 68.2 | 462.8 | 106,000 | 166,000 | 145 |
| 150 | 62.1 | 453.8 | 126,000 | 165,900 | 64.0 | 457.0 | 115,500 | 169,200 | 66.9 | 460.6 | 100,000 | 166,000 | 150 |
| 155 | 60.8 | 451.0 | 119,500 | 163,700 | 62.8 | 454.4 | 109,400 | 168,700 | 65.7 | 458.3 | 94,400  | 166,000 | 155 |
| 160 | 59.4 | 448.0 | 113,400 | 159,200 | 61.5 | 451.6 | 103,700 | 168,200 | 64.4 | 455.9 | 89,200  | 166,000 | 160 |
| 165 | 58.1 | 444.8 | 107,700 | 154,800 | 60.2 | 448.7 | 98,300  | 167,500 | 63.2 | 453.3 | 84,300  | 159,400 | 165 |
| 170 | 56.7 | 441.5 | 102,400 | 150,200 | 58.8 | 445.7 | 93,300  | 163,100 | 61.9 | 450.6 | 79,600  | 152,900 | 170 |
| 175 | 55.3 | 438.0 | 97,400  | 145,800 | 57.5 | 442.4 | 88,500  | 156,700 | 60.6 | 447.8 | 75,300  | 146,900 | 175 |
| 180 | 53.9 | 434.3 | 92,600  | 141,300 | 56.1 | 439.0 | 84,000  | 150,700 | 59.2 | 444.7 | 71,200  | 141,200 | 180 |
| 185 | 52.5 | 430.5 | 88,100  | 136,900 | 54.7 | 435.5 | 79,700  | 145,100 | 57.9 | 441.6 | 67,300  | 135,700 | 185 |
| 190 | 51.0 | 426.4 | 83,800  | 132,600 | 53.3 | 431.7 | 75,700  | 139,700 | 56.5 | 438.2 | 63,600  | 130,600 | 190 |
| 195 | 49.5 | 422.1 | 79,800  | 128,300 | 51.8 | 427.7 | 71,900  | 134,600 | 55.2 | 434.7 | 60,100  | 125,800 | 195 |
| 200 | 48.0 | 417.5 | 75,900  | 124,300 | 50.4 | 423.5 | 68,300  | 129,800 | 53.7 | 431.0 | 56,800  | 121,200 | 200 |
| 205 | 46.4 | 412.7 | 72,300  | 120,300 | 48.9 | 419.1 | 64,800  | 125,200 | 52.3 | 427.1 | 53,600  | 116,800 | 205 |
| 210 | 44.8 | 407.7 | 68,800  | 116,500 | 47.3 | 414.5 | 61,500  | 120,800 | 50.8 | 423.0 | 50,600  | 112,700 | 210 |
| 215 | 43.2 | 402.3 | 65,500  | 112,800 | 45.7 | 409.6 | 58,400  | 116,700 | 49.3 | 418.6 | 47,700  | 108,700 | 215 |
| 220 | 41.4 | 396.6 | 62,300  | 109,400 | 44.1 | 404.4 | 55,300  | 112,700 | 47.8 | 414.1 | 45,000  | 105,000 | 220 |
| 225 | 39.7 | 390.6 | 59,200  | 106,000 | 42.4 | 398.9 | 52,500  | 108,900 | 46.2 | 409.2 | 42,400  | 101,300 | 225 |
| 230 | 37.8 | 384.1 | 56,300  | 102,800 | 40.7 | 393.0 | 49,700  | 105,300 | 44.6 | 404.1 | 39,800  | 97,900  | 230 |
| 240 | 33.8 | 369.7 | 50,800  | 97,200  | 36.9 | 380.1 | 44,500  | 98,500  | 41.2 | 393.0 | 35,100  | 91,400  | 240 |
| 250 | 29.4 | 352.8 | 45,700  | 92,400  | 32.9 | 365.2 | 39,700  | 92,200  | 37.5 | 380.3 | 30,700  | 85,500  | 250 |
| 260 | 24.2 | 332.1 | 40,900  | 88,700  | 28.3 | 347.6 | 35,200  | 86,400  | 33.5 | 365.8 | 26,600  | 80,000  | 260 |
| 270 | 17.5 | 304.3 | 36,300  | 85,100  | 22.8 | 325.7 | 30,900  | 81,000  | 29.0 | 348.7 | 22,800  | 74,800  | 270 |
| 280 | 4.0  | 246.0 | 31,400  | 76,300  | 15.6 | 295.3 | 26,800  | 75,900  | 23.8 | 327.6 |         | 70,100  | 280 |
| 290 |      |       |         |         |      |       |         |         | 16.9 | 299.1 |         | 65,500  | 290 |
| 300 |      |       |         |         |      |       |         |         |      |       |         |         | 300 |
| 310 |      |       |         |         |      |       |         |         |      |       |         |         | 310 |
| 320 |      |       |         |         |      |       |         |         |      |       |         |         | 320 |
| 330 |      |       |         |         |      |       |         |         |      |       |         |         | 330 |
| 340 |      |       |         |         |      |       |         |         |      |       |         |         | 340 |
| 350 |      |       |         |         |      |       |         |         |      |       |         |         | 350 |

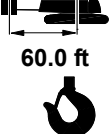
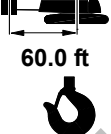
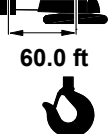
# MLC650 VPC-MAX S-1

ASME B30.5



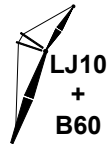
440,900 lb



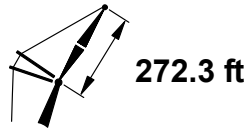
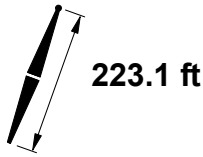
|                                                                                      |  75° |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |  70° |                                                                                      |                                                                                                                                                                                     |                                                                                       |  65° |                                                                                                                                                                                       |                                                                                        |  |  |
|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|--|--|
|  ft |  °   |  ft |  38.7 ft<br> lb |  60.0 ft<br> lb |  °   |  ft |  60.0 ft<br> lb |  ° |  ft  |  60.0 ft<br> lb |  ft |  |  |
| 100                                                                                  |                                                                                       |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                      |                                                                                                                                                                                     |                                                                                       |                                                                                         |                                                                                                                                                                                       | 100                                                                                    |  |  |
| 105                                                                                  |                                                                                       |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                      |                                                                                                                                                                                     |                                                                                       |                                                                                         |                                                                                                                                                                                       | 105                                                                                    |  |  |
| 110                                                                                  |                                                                                       |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                      |                                                                                                                                                                                     |                                                                                       |                                                                                         |                                                                                                                                                                                       | 110                                                                                    |  |  |
| 115                                                                                  |                                                                                       |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                      |                                                                                                                                                                                     |                                                                                       |                                                                                         |                                                                                                                                                                                       | 115                                                                                    |  |  |
| 120                                                                                  |                                                                                       |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                      |                                                                                                                                                                                     |                                                                                       |                                                                                         |                                                                                                                                                                                       | 120                                                                                    |  |  |
| 125                                                                                  |                                                                                       |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                      |                                                                                                                                                                                     |                                                                                       |                                                                                         |                                                                                                                                                                                       | 125                                                                                    |  |  |
| 130                                                                                  |                                                                                       |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                      |                                                                                                                                                                                     |                                                                                       |                                                                                         |                                                                                                                                                                                       | 130                                                                                    |  |  |
| 135                                                                                  |                                                                                       |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                      |                                                                                                                                                                                     |                                                                                       |                                                                                         |                                                                                                                                                                                       | 135                                                                                    |  |  |
| 140                                                                                  |                                                                                       |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                      |                                                                                                                                                                                     |                                                                                       |                                                                                         |                                                                                                                                                                                       | 140                                                                                    |  |  |
| 145                                                                                  |                                                                                       |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                      |                                                                                                                                                                                     |                                                                                       |                                                                                         |                                                                                                                                                                                       | 145                                                                                    |  |  |
| 150                                                                                  |                                                                                       |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                      |                                                                                                                                                                                     |                                                                                       |                                                                                         |                                                                                                                                                                                       | 150                                                                                    |  |  |
| 155                                                                                  |                                                                                       |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                      |                                                                                                                                                                                     |                                                                                       |                                                                                         |                                                                                                                                                                                       | 155                                                                                    |  |  |
| 160                                                                                  |                                                                                       |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                      |                                                                                                                                                                                     |                                                                                       |                                                                                         |                                                                                                                                                                                       | 160                                                                                    |  |  |
| 165                                                                                  |                                                                                       |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                      |                                                                                                                                                                                     |                                                                                       |                                                                                         |                                                                                                                                                                                       | 165                                                                                    |  |  |
| 170                                                                                  |                                                                                       |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                      |                                                                                                                                                                                     |                                                                                       |                                                                                         |                                                                                                                                                                                       | 170                                                                                    |  |  |
| 175                                                                                  |                                                                                       |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                      |                                                                                                                                                                                     |                                                                                       |                                                                                         |                                                                                                                                                                                       | 175                                                                                    |  |  |
| 180                                                                                  | 64.2                                                                                  | 450.9                                                                                | 50,100                                                                                                                                                                            | 125,400                                                                                                                                                                           |                                                                                       |                                                                                      |                                                                                                                                                                                     |                                                                                       |                                                                                         |                                                                                                                                                                                       | 180                                                                                    |  |  |
| 185                                                                                  | 62.9                                                                                  | 448.3                                                                                | 46,800                                                                                                                                                                            | 120,400                                                                                                                                                                           |                                                                                       |                                                                                      |                                                                                                                                                                                     |                                                                                       |                                                                                         |                                                                                                                                                                                       | 185                                                                                    |  |  |
| 190                                                                                  | 61.6                                                                                  | 445.6                                                                                | 43,700                                                                                                                                                                            | 115,800                                                                                                                                                                           |                                                                                       |                                                                                      |                                                                                                                                                                                     |                                                                                       |                                                                                         |                                                                                                                                                                                       | 190                                                                                    |  |  |
| 195                                                                                  | 60.3                                                                                  | 442.7                                                                                | 40,700                                                                                                                                                                            | 111,300                                                                                                                                                                           |                                                                                       |                                                                                      |                                                                                                                                                                                     |                                                                                       |                                                                                         |                                                                                                                                                                                       | 195                                                                                    |  |  |
| 200                                                                                  | 59.0                                                                                  | 439.6                                                                                | 37,900                                                                                                                                                                            | 107,100                                                                                                                                                                           |                                                                                       |                                                                                      |                                                                                                                                                                                     |                                                                                       |                                                                                         |                                                                                                                                                                                       | 200                                                                                    |  |  |
| 205                                                                                  | 57.6                                                                                  | 436.4                                                                                | 35,300                                                                                                                                                                            | 103,100                                                                                                                                                                           |                                                                                       |                                                                                      |                                                                                                                                                                                     |                                                                                       |                                                                                         |                                                                                                                                                                                       | 205                                                                                    |  |  |
| 210                                                                                  | 56.3                                                                                  | 433.0                                                                                | 32,700                                                                                                                                                                            | 99,300                                                                                                                                                                            |                                                                                       |                                                                                      |                                                                                                                                                                                     |                                                                                       |                                                                                         |                                                                                                                                                                                       | 210                                                                                    |  |  |
| 215                                                                                  | 54.9                                                                                  | 429.5                                                                                | 30,300                                                                                                                                                                            | 95,700                                                                                                                                                                            | 59.9                                                                                  | 435.6                                                                                | 82,900                                                                                                                                                                              |                                                                                       |                                                                                         |                                                                                                                                                                                       | 215                                                                                    |  |  |
| 220                                                                                  | 53.4                                                                                  | 425.7                                                                                | 28,000                                                                                                                                                                            | 92,200                                                                                                                                                                            | 58.6                                                                                  | 432.6                                                                                | 79,700                                                                                                                                                                              |                                                                                       |                                                                                         |                                                                                                                                                                                       | 220                                                                                    |  |  |
| 225                                                                                  | 52.0                                                                                  | 421.8                                                                                | 25,700                                                                                                                                                                            | 88,900                                                                                                                                                                            | 57.2                                                                                  | 429.3                                                                                | 76,700                                                                                                                                                                              |                                                                                       |                                                                                         |                                                                                                                                                                                       | 225                                                                                    |  |  |
| 230                                                                                  | 50.5                                                                                  | 417.6                                                                                | 23,600                                                                                                                                                                            | 85,700                                                                                                                                                                            | 55.9                                                                                  | 425.9                                                                                | 73,800                                                                                                                                                                              |                                                                                       |                                                                                         |                                                                                                                                                                                       | 230                                                                                    |  |  |
| 240                                                                                  | 47.5                                                                                  | 408.6                                                                                |                                                                                                                                                                                   | 79,800                                                                                                                                                                            | 53.0                                                                                  | 418.4                                                                                | 68,400                                                                                                                                                                              |                                                                                       |                                                                                         |                                                                                                                                                                                       | 240                                                                                    |  |  |
| 250                                                                                  | 44.3                                                                                  | 398.6                                                                                |                                                                                                                                                                                   | 74,400                                                                                                                                                                            | 50.1                                                                                  | 410.2                                                                                | 63,500                                                                                                                                                                              |                                                                                       |                                                                                         |                                                                                                                                                                                       | 250                                                                                    |  |  |
| 260                                                                                  | 40.8                                                                                  | 387.3                                                                                |                                                                                                                                                                                   | 69,300                                                                                                                                                                            | 47.0                                                                                  | 401.1                                                                                | 58,900                                                                                                                                                                              | 52.4                                                                                  | 409.1                                                                                   | 48,700                                                                                                                                                                                | 260                                                                                    |  |  |
| 270                                                                                  | 37.2                                                                                  | 374.5                                                                                |                                                                                                                                                                                   | 64,600                                                                                                                                                                            | 43.8                                                                                  | 390.8                                                                                | 54,600                                                                                                                                                                              | 49.5                                                                                  | 400.7                                                                                   | 44,900                                                                                                                                                                                | 270                                                                                    |  |  |
| 280                                                                                  | 33.1                                                                                  | 359.7                                                                                |                                                                                                                                                                                   | 60,300                                                                                                                                                                            | 40.3                                                                                  | 379.4                                                                                | 50,700                                                                                                                                                                              | 46.4                                                                                  | 391.3                                                                                   | 41,300                                                                                                                                                                                | 280                                                                                    |  |  |
| 290                                                                                  | 28.6                                                                                  | 342.3                                                                                |                                                                                                                                                                                   | 56,200                                                                                                                                                                            | 36.6                                                                                  | 366.3                                                                                | 47,000                                                                                                                                                                              | 43.1                                                                                  | 380.8                                                                                   | 38,000                                                                                                                                                                                | 290                                                                                    |  |  |
| 300                                                                                  | 23.2                                                                                  | 320.7                                                                                |                                                                                                                                                                                   | 52,300                                                                                                                                                                            | 32.5                                                                                  | 351.2                                                                                | 43,500                                                                                                                                                                              | 39.6                                                                                  | 369.1                                                                                   | 34,800                                                                                                                                                                                | 300                                                                                    |  |  |
| 310                                                                                  | 16.0                                                                                  | 290.9                                                                                |                                                                                                                                                                                   | 48,700                                                                                                                                                                            | 27.8                                                                                  | 333.3                                                                                | 40,200                                                                                                                                                                              | 35.8                                                                                  | 355.6                                                                                   | 31,900                                                                                                                                                                                | 310                                                                                    |  |  |
| 320                                                                                  |                                                                                       |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   | 22.3                                                                                  | 310.8                                                                                | 37,100                                                                                                                                                                              | 31.6                                                                                  | 340.0                                                                                   | 29,100                                                                                                                                                                                | 320                                                                                    |  |  |
| 330                                                                                  |                                                                                       |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   | 14.7                                                                                  | 279.0                                                                                | 34,000                                                                                                                                                                              | 26.8                                                                                  | 321.3                                                                                   | 26,100                                                                                                                                                                                | 330                                                                                    |  |  |
| 340                                                                                  |                                                                                       |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                      |                                                                                                                                                                                     | 20.9                                                                                  | 297.6                                                                                   | 23,100                                                                                                                                                                                | 340                                                                                    |  |  |
| 350                                                                                  |                                                                                       |                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                       |                                                                                      |                                                                                                                                                                                     | 12.5                                                                                  | 262.0                                                                                   | 20,100                                                                                                                                                                                | 350                                                                                    |  |  |

# MLC650 VPC-MAX S-1

ASME B30.5



440,900 lb



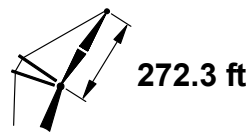
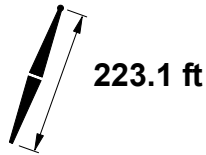
|     | 85°  |       |         |         | 83°  |       |         |         | 80°  |       |         |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|---------|---------|-----|
|     |      |       |         |         |      |       |         |         |      |       |         |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | ft  |
| 105 | 74.4 | 493.9 | 150,500 | 150,500 |      |       |         |         |      |       |         |         | 105 |
| 110 | 73.3 | 492.4 | 150,300 | 150,300 |      |       |         |         |      |       |         |         | 110 |
| 115 | 72.2 | 490.7 | 149,500 | 149,500 |      |       |         |         |      |       |         |         | 115 |
| 120 | 71.1 | 489.0 | 149,200 | 149,200 | 72.8 | 490.7 | 148,600 | 148,600 |      |       |         |         | 120 |
| 125 | 70.0 | 487.1 | 148,700 | 148,700 | 71.7 | 489.0 | 148,600 | 148,600 |      |       |         |         | 125 |
| 130 | 68.9 | 485.1 | 148,100 | 148,100 | 70.6 | 487.2 | 142,300 | 148,600 |      |       |         |         | 130 |
| 135 | 67.7 | 483.1 | 146,100 | 147,500 | 69.5 | 485.3 | 134,200 | 148,500 |      |       |         |         | 135 |
| 140 | 66.6 | 480.9 | 138,100 | 146,800 | 68.4 | 483.3 | 126,700 | 148,300 |      |       |         |         | 140 |
| 145 | 65.4 | 478.5 | 130,700 | 146,100 | 67.2 | 481.2 | 119,700 | 148,000 | 69.8 | 484.0 | 103,300 | 144,500 | 145 |
| 150 | 64.2 | 476.1 | 123,800 | 145,300 | 66.1 | 478.9 | 113,200 | 147,700 | 68.7 | 482.0 | 97,300  | 144,500 | 150 |
| 155 | 63.1 | 473.5 | 117,300 | 144,500 | 64.9 | 476.5 | 107,100 | 147,300 | 67.6 | 479.9 | 91,800  | 144,500 | 155 |
| 160 | 61.9 | 470.8 | 111,300 | 143,700 | 63.7 | 474.0 | 101,400 | 146,800 | 66.4 | 477.7 | 86,600  | 144,500 | 160 |
| 165 | 60.7 | 467.9 | 105,600 | 142,800 | 62.5 | 471.4 | 96,000  | 146,300 | 65.3 | 475.4 | 81,700  | 144,500 | 165 |
| 170 | 59.4 | 464.9 | 100,300 | 139,500 | 61.3 | 468.6 | 91,000  | 145,800 | 64.1 | 472.9 | 77,100  | 144,500 | 170 |
| 175 | 58.2 | 461.8 | 95,300  | 135,800 | 60.1 | 465.7 | 86,300  | 145,200 | 62.9 | 470.3 | 72,800  | 144,500 | 175 |
| 180 | 56.9 | 458.5 | 90,600  | 132,100 | 58.9 | 462.6 | 81,800  | 144,600 | 61.7 | 467.6 | 68,700  | 139,100 | 180 |
| 185 | 55.7 | 455.1 | 86,100  | 128,400 | 57.6 | 459.4 | 77,600  | 143,200 | 60.5 | 464.7 | 64,900  | 133,700 | 185 |
| 190 | 54.4 | 451.4 | 81,900  | 124,800 | 56.4 | 456.1 | 73,600  | 137,800 | 59.3 | 461.7 | 61,200  | 128,600 | 190 |
| 195 | 53.0 | 447.6 | 77,800  | 121,100 | 55.1 | 452.5 | 69,800  | 132,800 | 58.0 | 458.5 | 57,700  | 123,800 | 195 |
| 200 | 51.7 | 443.6 | 74,000  | 117,600 | 53.8 | 448.8 | 66,200  | 128,000 | 56.8 | 455.2 | 54,500  | 119,300 | 200 |
| 205 | 50.3 | 439.5 | 70,400  | 114,100 | 52.4 | 444.9 | 62,700  | 123,400 | 55.5 | 451.7 | 51,300  | 114,900 | 205 |
| 210 | 48.9 | 435.1 | 66,900  | 110,600 | 51.1 | 440.9 | 59,500  | 119,100 | 54.2 | 448.1 | 48,300  | 110,800 | 210 |
| 215 | 47.5 | 430.4 | 63,600  | 107,300 | 49.7 | 436.6 | 56,300  | 115,000 | 52.8 | 444.3 | 45,500  | 106,900 | 215 |
| 220 | 46.0 | 425.6 | 60,500  | 104,100 | 48.3 | 432.1 | 53,400  | 111,000 | 51.5 | 440.3 | 42,800  | 103,100 | 220 |
| 225 | 44.5 | 420.5 | 57,400  | 101,000 | 46.8 | 427.4 | 50,500  | 107,300 | 50.1 | 436.0 | 40,200  | 99,500  | 225 |
| 230 | 43.0 | 415.1 | 54,600  | 97,900  | 45.3 | 422.4 | 47,800  | 103,700 | 48.7 | 431.6 | 37,700  | 96,100  | 230 |
| 240 | 39.7 | 403.3 | 49,100  | 92,300  | 42.2 | 411.6 | 42,700  | 96,900  | 45.8 | 422.1 | 33,000  | 89,700  | 240 |
| 250 | 36.2 | 390.1 | 44,100  | 87,300  | 39.0 | 399.5 | 37,900  | 90,700  | 42.7 | 411.5 | 28,700  | 83,800  | 250 |
| 260 | 32.4 | 374.9 | 39,400  | 82,800  | 35.4 | 385.9 | 33,500  | 85,000  | 39.5 | 399.6 | 24,700  | 78,400  | 260 |
| 270 | 28.1 | 357.1 | 35,100  | 79,100  | 31.5 | 370.2 | 29,400  | 79,600  | 36.0 | 386.3 | 21,000  | 73,300  | 270 |
| 280 | 23.0 | 335.3 | 30,900  | 76,400  | 27.0 | 351.7 | 25,500  | 74,700  | 32.1 | 370.9 |         | 68,600  | 280 |
| 290 | 16.5 | 306.0 | 26,900  | 73,900  | 21.8 | 328.6 | 21,900  | 70,000  | 27.8 | 352.9 |         | 64,200  | 290 |
| 300 | 1.8  | 236.7 | 22,500  | 61,200  | 14.7 | 296.5 |         | 65,600  | 22.7 | 330.7 |         | 60,100  | 300 |
| 310 |      |       |         |         |      |       |         |         | 16.0 | 300.6 |         | 56,100  | 310 |
| 320 |      |       |         |         |      |       |         |         |      |       |         |         | 320 |
| 330 |      |       |         |         |      |       |         |         |      |       |         |         | 330 |
| 340 |      |       |         |         |      |       |         |         |      |       |         |         | 340 |
| 350 |      |       |         |         |      |       |         |         |      |       |         |         | 350 |

# MLC650 VPC-MAX S-1

ASME B30.5



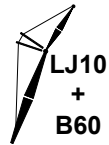
440,900 lb



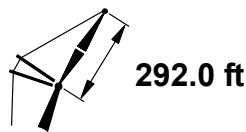
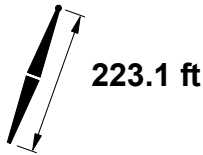
|     | 75°  |       |        |         | 70°  |       |        |      | 65°   |        |    |     |
|-----|------|-------|--------|---------|------|-------|--------|------|-------|--------|----|-----|
|     |      |       |        |         |      |       |        |      |       |        |    |     |
|     | ft   | °     | ft     | lb      | lb   | °     | ft     | lb   | °     | ft     | lb | ft  |
| 105 |      |       |        |         |      |       |        |      |       |        |    | 105 |
| 110 |      |       |        |         |      |       |        |      |       |        |    | 110 |
| 115 |      |       |        |         |      |       |        |      |       |        |    | 115 |
| 120 |      |       |        |         |      |       |        |      |       |        |    | 120 |
| 125 |      |       |        |         |      |       |        |      |       |        |    | 125 |
| 130 |      |       |        |         |      |       |        |      |       |        |    | 130 |
| 135 |      |       |        |         |      |       |        |      |       |        |    | 135 |
| 140 |      |       |        |         |      |       |        |      |       |        |    | 140 |
| 145 |      |       |        |         |      |       |        |      |       |        |    | 145 |
| 150 |      |       |        |         |      |       |        |      |       |        |    | 150 |
| 155 |      |       |        |         |      |       |        |      |       |        |    | 155 |
| 160 |      |       |        |         |      |       |        |      |       |        |    | 160 |
| 165 |      |       |        |         |      |       |        |      |       |        |    | 165 |
| 170 |      |       |        |         |      |       |        |      |       |        |    | 170 |
| 175 |      |       |        |         |      |       |        |      |       |        |    | 175 |
| 180 |      |       |        |         |      |       |        |      |       |        |    | 180 |
| 185 |      |       |        |         |      |       |        |      |       |        |    | 185 |
| 190 | 63.8 | 467.9 | 40,900 | 113,500 |      |       |        |      |       |        |    | 190 |
| 195 | 62.7 | 465.3 | 38,000 | 109,100 |      |       |        |      |       |        |    | 195 |
| 200 | 61.5 | 462.5 | 35,200 | 104,900 |      |       |        |      |       |        |    | 200 |
| 205 | 60.2 | 459.6 | 32,600 | 100,900 |      |       |        |      |       |        |    | 205 |
| 210 | 59.0 | 456.6 | 30,100 | 97,100  |      |       |        |      |       |        |    | 210 |
| 215 | 57.8 | 453.4 | 27,700 | 93,600  |      |       |        |      |       |        |    | 215 |
| 220 | 56.5 | 450.0 | 25,400 | 90,100  |      |       |        |      |       |        |    | 220 |
| 225 | 55.2 | 446.5 | 23,200 | 86,800  | 59.9 | 452.6 | 74,400 |      |       |        |    | 225 |
| 230 | 53.9 | 442.8 | 21,100 | 83,700  | 58.6 | 449.5 | 71,600 |      |       |        |    | 230 |
| 240 | 51.2 | 434.9 |        | 77,800  | 56.1 | 442.9 | 66,300 |      |       |        |    | 240 |
| 250 | 48.4 | 426.2 |        | 72,400  | 53.5 | 435.6 | 61,300 |      |       |        |    | 250 |
| 260 | 45.5 | 416.5 |        | 67,500  | 50.8 | 427.6 | 56,800 |      |       |        |    | 260 |
| 270 | 42.4 | 405.8 |        | 62,900  | 48.0 | 418.7 | 52,600 | 53.0 | 426.3 | 42,700 |    | 270 |
| 280 | 39.1 | 393.9 |        | 58,600  | 45.1 | 408.9 | 48,700 | 50.2 | 418.1 | 39,100 |    | 280 |
| 290 | 35.6 | 380.3 |        | 54,500  | 42.0 | 398.0 | 45,100 | 47.4 | 409.0 | 35,900 |    | 290 |
| 300 | 31.7 | 364.7 |        | 50,800  | 38.6 | 385.8 | 41,700 | 44.4 | 399.0 | 32,800 |    | 300 |
| 310 | 27.3 | 346.4 |        | 47,200  | 35.0 | 372.0 | 38,500 | 41.3 | 387.9 | 29,600 |    | 310 |
| 320 | 22.1 | 323.6 |        | 43,900  | 31.1 | 356.1 | 35,400 | 37.9 | 375.4 | 26,400 |    | 320 |
| 330 | 15.1 | 292.2 |        | 40,600  | 26.6 | 337.2 | 32,600 | 34.3 | 361.2 | 23,400 |    | 330 |
| 340 |      |       |        |         | 21.2 | 313.6 | 29,800 | 30.2 | 344.7 | 20,600 |    | 340 |
| 350 |      |       |        |         | 13.8 | 280.0 | 27,100 |      |       |        |    | 350 |

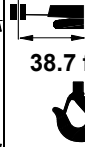
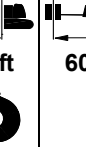
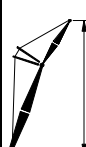
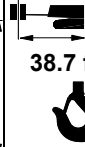
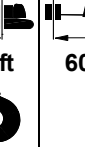
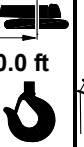
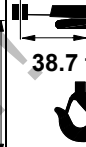
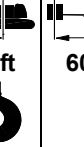
# MLC650 VPC-MAX S-1

ASME B30.5



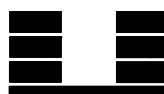
440,900 lb



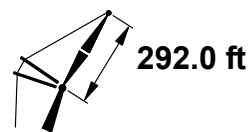
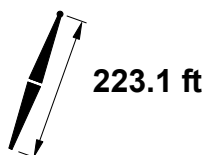
|  85° |                                                                                   |                                                                                   |                                                                                   |                                                                                   |  83° |                                                                                   |                                                                                   |                                                                                   |                                                                                    |  80° |                                                                                     |                                                                                     |                                                                                     |                                                                                     |  |
|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--|
|       |  |  |  |  |      |  |  |  |  |       |  |  |  |  |  |
| ft                                                                                    | °                                                                                 | ft                                                                                | lb                                                                                | lb                                                                                | °                                                                                     | ft                                                                                | lb                                                                                | lb                                                                                | lb                                                                                 | °                                                                                       | ft                                                                                  | lb                                                                                  | lb                                                                                  | ft                                                                                  |  |
| 110                                                                                   | 74.5                                                                              | 512.9                                                                             | 129,500                                                                           | 129,500                                                                           |                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                         |                                                                                     |                                                                                     |                                                                                     | 110                                                                                 |  |
| 115                                                                                   | 73.5                                                                              | 511.4                                                                             | 129,200                                                                           | 129,200                                                                           |                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                         |                                                                                     |                                                                                     |                                                                                     | 115                                                                                 |  |
| 120                                                                                   | 72.4                                                                              | 509.8                                                                             | 128,900                                                                           | 128,900                                                                           |                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                         |                                                                                     |                                                                                     |                                                                                     | 120                                                                                 |  |
| 125                                                                                   | 71.4                                                                              | 508.1                                                                             | 128,500                                                                           | 128,500                                                                           |                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                         |                                                                                     |                                                                                     |                                                                                     | 125                                                                                 |  |
| 130                                                                                   | 70.4                                                                              | 506.3                                                                             | 128,000                                                                           | 128,000                                                                           | 72.0                                                                                  | 508.1                                                                             | 128,100                                                                           | 128,100                                                                           |                                                                                    |                                                                                         |                                                                                     |                                                                                     |                                                                                     | 130                                                                                 |  |
| 135                                                                                   | 69.3                                                                              | 504.3                                                                             | 127,500                                                                           | 127,500                                                                           | 70.9                                                                                  | 506.3                                                                             | 127,700                                                                           | 127,700                                                                           |                                                                                    |                                                                                         |                                                                                     |                                                                                     |                                                                                     | 135                                                                                 |  |
| 140                                                                                   | 68.3                                                                              | 502.3                                                                             | 126,900                                                                           | 126,900                                                                           | 69.9                                                                                  | 504.5                                                                             | 122,700                                                                           | 127,500                                                                           |                                                                                    |                                                                                         |                                                                                     |                                                                                     |                                                                                     | 140                                                                                 |  |
| 145                                                                                   | 67.2                                                                              | 500.2                                                                             | 126,300                                                                           | 126,300                                                                           | 68.8                                                                                  | 502.5                                                                             | 115,700                                                                           | 127,200                                                                           |                                                                                    |                                                                                         |                                                                                     |                                                                                     |                                                                                     | 145                                                                                 |  |
| 150                                                                                   | 66.1                                                                              | 497.9                                                                             | 120,000                                                                           | 125,700                                                                           | 67.8                                                                                  | 500.4                                                                             | 109,200                                                                           | 126,900                                                                           |                                                                                    |                                                                                         |                                                                                     |                                                                                     |                                                                                     | 150                                                                                 |  |
| 155                                                                                   | 65.0                                                                              | 495.6                                                                             | 113,600                                                                           | 125,000                                                                           | 66.7                                                                                  | 498.2                                                                             | 103,200                                                                           | 126,500                                                                           | 69.2                                                                               | 501.2                                                                                   | 87,600                                                                              | 123,800                                                                             |                                                                                     | 155                                                                                 |  |
| 160                                                                                   | 63.9                                                                              | 493.1                                                                             | 107,600                                                                           | 124,300                                                                           | 65.6                                                                                  | 495.9                                                                             | 97,500                                                                            | 126,100                                                                           | 68.1                                                                               | 499.2                                                                                   | 82,400                                                                              | 123,800                                                                             |                                                                                     | 160                                                                                 |  |
| 165                                                                                   | 62.8                                                                              | 490.5                                                                             | 101,900                                                                           | 123,500                                                                           | 64.5                                                                                  | 493.5                                                                             | 92,100                                                                            | 125,700                                                                           | 67.0                                                                               | 497.0                                                                                   | 77,600                                                                              | 123,800                                                                             |                                                                                     | 165                                                                                 |  |
| 170                                                                                   | 61.7                                                                              | 487.7                                                                             | 96,600                                                                            | 122,800                                                                           | 63.4                                                                                  | 491.0                                                                             | 87,100                                                                            | 125,200                                                                           | 66.0                                                                               | 494.8                                                                                   | 73,000                                                                              | 123,800                                                                             |                                                                                     | 170                                                                                 |  |
| 175                                                                                   | 60.6                                                                              | 484.9                                                                             | 91,600                                                                            | 122,000                                                                           | 62.3                                                                                  | 488.3                                                                             | 82,400                                                                            | 124,700                                                                           | 64.9                                                                               | 492.4                                                                                   | 68,700                                                                              | 123,800                                                                             |                                                                                     | 175                                                                                 |  |
| 180                                                                                   | 59.4                                                                              | 481.9                                                                             | 86,900                                                                            | 121,200                                                                           | 61.2                                                                                  | 485.6                                                                             | 78,000                                                                            | 124,200                                                                           | 63.8                                                                               | 489.9                                                                                   | 64,700                                                                              | 123,800                                                                             |                                                                                     | 180                                                                                 |  |
| 185                                                                                   | 58.3                                                                              | 478.8                                                                             | 82,400                                                                            | 118,900                                                                           | 60.1                                                                                  | 482.6                                                                             | 73,800                                                                            | 123,600                                                                           | 62.7                                                                               | 487.3                                                                                   | 60,800                                                                              | 123,800                                                                             |                                                                                     | 185                                                                                 |  |
| 190                                                                                   | 57.1                                                                              | 475.5                                                                             | 78,200                                                                            | 115,900                                                                           | 58.9                                                                                  | 479.6                                                                             | 69,800                                                                            | 123,000                                                                           | 61.6                                                                               | 484.5                                                                                   | 57,200                                                                              | 123,800                                                                             |                                                                                     | 190                                                                                 |  |
| 195                                                                                   | 55.9                                                                              | 472.1                                                                             | 74,200                                                                            | 112,900                                                                           | 57.8                                                                                  | 476.4                                                                             | 66,000                                                                            | 122,400                                                                           | 60.4                                                                               | 481.7                                                                                   | 53,700                                                                              | 120,600                                                                             |                                                                                     | 195                                                                                 |  |
| 200                                                                                   | 54.7                                                                              | 468.5                                                                             | 70,400                                                                            | 109,900                                                                           | 56.6                                                                                  | 473.1                                                                             | 62,400                                                                            | 121,800                                                                           | 59.3                                                                               | 478.7                                                                                   | 50,500                                                                              | 116,100                                                                             |                                                                                     | 200                                                                                 |  |
| 205                                                                                   | 53.5                                                                              | 464.8                                                                             | 66,800                                                                            | 107,000                                                                           | 55.4                                                                                  | 469.6                                                                             | 59,000                                                                            | 120,400                                                                           | 58.1                                                                               | 475.5                                                                                   | 47,400                                                                              | 111,800                                                                             |                                                                                     | 205                                                                                 |  |
| 210                                                                                   | 52.2                                                                              | 460.9                                                                             | 63,300                                                                            | 104,000                                                                           | 54.2                                                                                  | 465.9                                                                             | 55,700                                                                            | 116,100                                                                           | 56.9                                                                               | 472.2                                                                                   | 44,400                                                                              | 107,700                                                                             |                                                                                     | 210                                                                                 |  |
| 215                                                                                   | 51.0                                                                              | 456.8                                                                             | 60,000                                                                            | 101,100                                                                           | 52.9                                                                                  | 462.1                                                                             | 52,600                                                                            | 112,000                                                                           | 55.8                                                                               | 468.8                                                                                   | 41,600                                                                              | 103,800                                                                             |                                                                                     | 215                                                                                 |  |
| 220                                                                                   | 49.7                                                                              | 452.5                                                                             | 56,900                                                                            | 98,300                                                                            | 51.7                                                                                  | 458.1                                                                             | 49,700                                                                            | 108,100                                                                           | 54.5                                                                               | 465.2                                                                                   | 38,900                                                                              | 100,000                                                                             |                                                                                     | 220                                                                                 |  |
| 225                                                                                   | 48.4                                                                              | 448.0                                                                             | 53,900                                                                            | 95,500                                                                            | 50.4                                                                                  | 454.0                                                                             | 46,800                                                                            | 104,300                                                                           | 53.3                                                                               | 461.4                                                                                   | 36,300                                                                              | 96,500                                                                              |                                                                                     | 225                                                                                 |  |
| 230                                                                                   | 47.0                                                                              | 443.3                                                                             | 51,000                                                                            | 92,800                                                                            | 49.1                                                                                  | 449.6                                                                             | 44,100                                                                            | 100,700                                                                           | 52.1                                                                               | 457.5                                                                                   | 33,800                                                                              | 93,100                                                                              |                                                                                     | 230                                                                                 |  |
| 240                                                                                   | 44.2                                                                              | 433.2                                                                             | 45,600                                                                            | 87,600                                                                            | 46.4                                                                                  | 440.2                                                                             | 39,000                                                                            | 94,000                                                                            | 49.5                                                                               | 449.1                                                                                   | 29,200                                                                              | 86,700                                                                              |                                                                                     | 240                                                                                 |  |
| 250                                                                                   | 41.3                                                                              | 422.1                                                                             | 40,700                                                                            | 82,800                                                                            | 43.6                                                                                  | 429.9                                                                             | 34,300                                                                            | 87,900                                                                            | 46.8                                                                               | 439.8                                                                                   | 24,900                                                                              | 80,800                                                                              |                                                                                     | 250                                                                                 |  |
| 260                                                                                   | 38.2                                                                              | 409.7                                                                             | 36,000                                                                            | 78,300                                                                            | 40.6                                                                                  | 418.5                                                                             | 30,000                                                                            | 82,200                                                                            | 44.0                                                                               | 429.7                                                                                   | 21,000                                                                              | 75,400                                                                              |                                                                                     | 260                                                                                 |  |
| 270                                                                                   | 34.8                                                                              | 395.7                                                                             | 31,700                                                                            | 74,300                                                                            | 37.4                                                                                  | 405.8                                                                             | 25,900                                                                            | 76,900                                                                            | 41.1                                                                               | 418.5                                                                                   |                                                                                     | 70,400                                                                              |                                                                                     | 270                                                                                 |  |
| 280                                                                                   | 31.1                                                                              | 379.8                                                                             | 27,700                                                                            | 70,800                                                                            | 34.0                                                                                  | 391.4                                                                             | 22,200                                                                            | 72,000                                                                            | 37.9                                                                               | 406.0                                                                                   |                                                                                     | 65,800                                                                              |                                                                                     | 280                                                                                 |  |
| 290                                                                                   | 26.9                                                                              | 361.1                                                                             | 23,900                                                                            | 67,900                                                                            | 30.2                                                                                  | 374.9                                                                             |                                                                                   | 67,400                                                                            | 34.6                                                                               | 391.9                                                                                   |                                                                                     | 61,400                                                                              |                                                                                     | 290                                                                                 |  |
| 300                                                                                   | 22.0                                                                              | 338.2                                                                             | 20,300                                                                            | 65,700                                                                            | 25.9                                                                                  | 355.5                                                                             |                                                                                   | 63,100                                                                            | 30.8                                                                               | 375.8                                                                                   |                                                                                     | 57,300                                                                              |                                                                                     | 300                                                                                 |  |
| 310                                                                                   | 15.7                                                                              | 307.4                                                                             |                                                                                   | 62,700                                                                            | 20.8                                                                                  | 331.3                                                                             |                                                                                   | 59,000                                                                            | 26.6                                                                               | 356.8                                                                                   |                                                                                     | 53,500                                                                              |                                                                                     | 310                                                                                 |  |
| 320                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 13.9                                                                                  | 297.4                                                                             |                                                                                   | 55,200                                                                            | 21.7                                                                               | 333.6                                                                                   |                                                                                     | 49,900                                                                              |                                                                                     | 320                                                                                 |  |
| 330                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                       |                                                                                   |                                                                                   |                                                                                   | 15.2                                                                               | 301.9                                                                                   |                                                                                     | 46,400                                                                              |                                                                                     | 330                                                                                 |  |
| 340                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                         |                                                                                     |                                                                                     |                                                                                     | 340                                                                                 |  |
| 350                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                         |                                                                                     |                                                                                     |                                                                                     | 350                                                                                 |  |
| 360                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                         |                                                                                     |                                                                                     |                                                                                     | 360                                                                                 |  |

# MLC650 VPC-MAX S-1

ASME B30.5



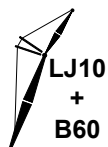
440,900 lb



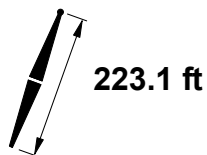
|     | 75°  |       |         | 70°  |       |        |     |
|-----|------|-------|---------|------|-------|--------|-----|
|     |      |       |         |      |       |        |     |
|     | ft   | °     | ft      | lb   | °     | ft     | lb  |
| 110 |      |       |         |      |       |        | 110 |
| 115 |      |       |         |      |       |        | 115 |
| 120 |      |       |         |      |       |        | 120 |
| 125 |      |       |         |      |       |        | 125 |
| 130 |      |       |         |      |       |        | 130 |
| 135 |      |       |         |      |       |        | 135 |
| 140 |      |       |         |      |       |        | 140 |
| 145 |      |       |         |      |       |        | 145 |
| 150 |      |       |         |      |       |        | 150 |
| 155 |      |       |         |      |       |        | 155 |
| 160 |      |       |         |      |       |        | 160 |
| 165 |      |       |         |      |       |        | 165 |
| 170 |      |       |         |      |       |        | 170 |
| 175 |      |       |         |      |       |        | 175 |
| 180 |      |       |         |      |       |        | 180 |
| 185 |      |       |         |      |       |        | 185 |
| 190 |      |       |         |      |       |        | 190 |
| 195 | 64.7 | 487.4 | 105,600 |      |       |        | 195 |
| 200 | 63.6 | 484.9 | 101,500 |      |       |        | 200 |
| 205 | 62.4 | 482.2 | 97,500  |      |       |        | 205 |
| 210 | 61.3 | 479.5 | 93,800  |      |       |        | 210 |
| 215 | 60.2 | 476.6 | 90,200  |      |       |        | 215 |
| 220 | 59.0 | 473.5 | 86,800  |      |       |        | 220 |
| 225 | 57.9 | 470.4 | 83,600  |      |       |        | 225 |
| 230 | 56.7 | 467.0 | 80,500  |      |       |        | 230 |
| 240 | 54.3 | 459.9 | 74,600  | 58.7 | 466.5 | 62,800 | 240 |
| 250 | 51.8 | 452.2 | 69,300  | 56.4 | 459.9 | 58,000 | 250 |
| 260 | 49.2 | 443.7 | 64,300  | 53.9 | 452.7 | 53,500 | 260 |
| 270 | 46.6 | 434.4 | 59,800  | 51.4 | 444.8 | 49,300 | 270 |
| 280 | 43.7 | 424.1 | 55,500  | 48.8 | 436.2 | 45,500 | 280 |
| 290 | 40.8 | 412.8 | 51,500  | 46.2 | 426.8 | 41,900 | 290 |
| 300 | 37.6 | 400.1 | 47,800  | 43.3 | 416.4 | 38,500 | 300 |
| 310 | 34.2 | 385.8 | 44,400  | 40.3 | 404.8 | 35,400 | 310 |
| 320 | 30.4 | 369.5 | 41,100  | 37.1 | 392.0 | 32,400 | 320 |
| 330 | 26.2 | 350.2 | 38,000  | 33.7 | 377.4 | 29,600 | 330 |
| 340 | 21.1 | 326.4 | 35,000  | 29.8 | 360.7 | 26,600 | 340 |
| 350 | 14.3 | 293.3 | 32,100  | 25.5 | 340.9 | 23,700 | 350 |
| 360 |      |       |         | 20.2 | 316.2 | 20,800 | 360 |

# MLC650 VPC-MAX S-1

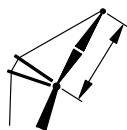
ASME B30.5



440,900 lb



223.1 ft

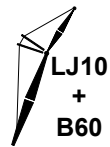


311.7 ft

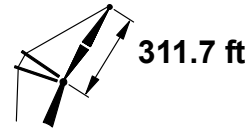
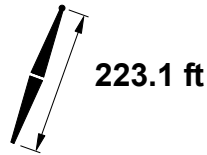
|     | 85°  |       |         |         | 83°  |       |         |         | 80°  |       |        |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|--------|---------|-----|
|     |      |       |         |         |      |       |         |         |      |       |        |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb     | lb      | ft  |
| 115 | 74.6 | 532.0 | 112,900 | 112,900 |      |       |         |         |      |       |        |         | 115 |
| 120 | 73.6 | 530.5 | 112,500 | 112,500 |      |       |         |         |      |       |        |         | 120 |
| 125 | 72.6 | 528.9 | 111,900 | 111,900 |      |       |         |         |      |       |        |         | 125 |
| 130 | 71.7 | 527.2 | 111,500 | 111,500 |      |       |         |         |      |       |        |         | 130 |
| 135 | 70.7 | 525.4 | 111,000 | 111,000 | 72.2 | 527.2 | 110,800 | 110,800 |      |       |        |         | 135 |
| 140 | 69.7 | 523.5 | 110,600 | 110,600 | 71.2 | 525.5 | 110,600 | 110,600 |      |       |        |         | 140 |
| 145 | 68.7 | 521.5 | 110,100 | 110,100 | 70.2 | 523.6 | 110,400 | 110,400 |      |       |        |         | 145 |
| 150 | 67.7 | 519.5 | 109,500 | 109,500 | 69.3 | 521.7 | 106,900 | 110,100 |      |       |        |         | 150 |
| 155 | 66.7 | 517.3 | 108,900 | 108,900 | 68.3 | 519.7 | 100,900 | 109,800 |      |       |        |         | 155 |
| 160 | 65.7 | 515.0 | 105,500 | 108,300 | 67.3 | 517.6 | 95,200  | 109,400 | 69.6 | 520.4 | 79,900 | 106,900 | 160 |
| 165 | 64.7 | 512.6 | 99,800  | 107,700 | 66.3 | 515.3 | 89,900  | 109,000 | 68.6 | 518.4 | 75,000 | 106,900 | 165 |
| 170 | 63.7 | 510.1 | 94,500  | 107,000 | 65.2 | 513.0 | 84,900  | 108,600 | 67.6 | 516.3 | 70,500 | 106,900 | 170 |
| 175 | 62.6 | 507.4 | 89,500  | 106,400 | 64.2 | 510.5 | 80,200  | 108,200 | 66.6 | 514.1 | 66,200 | 106,900 | 175 |
| 180 | 61.6 | 504.7 | 84,800  | 105,700 | 63.2 | 508.0 | 75,700  | 107,700 | 65.6 | 511.8 | 62,200 | 106,900 | 180 |
| 185 | 60.5 | 501.8 | 80,400  | 105,000 | 62.1 | 505.3 | 71,500  | 107,200 | 64.5 | 509.4 | 58,400 | 106,700 | 185 |
| 190 | 59.4 | 498.9 | 76,200  | 104,300 | 61.1 | 502.5 | 67,600  | 106,700 | 63.5 | 506.9 | 54,800 | 106,600 | 190 |
| 195 | 58.4 | 495.7 | 72,200  | 103,600 | 60.0 | 499.6 | 63,800  | 106,200 | 62.5 | 504.3 | 51,300 | 106,400 | 195 |
| 200 | 57.3 | 492.5 | 68,400  | 101,800 | 59.0 | 496.5 | 60,200  | 105,700 | 61.4 | 501.5 | 48,100 | 106,200 | 200 |
| 205 | 56.1 | 489.1 | 64,800  | 99,300  | 57.9 | 493.4 | 56,800  | 105,100 | 60.4 | 498.6 | 45,000 | 106,000 | 205 |
| 210 | 55.0 | 485.6 | 61,300  | 96,900  | 56.8 | 490.1 | 53,600  | 104,600 | 59.3 | 495.6 | 42,100 | 105,700 | 210 |
| 215 | 53.9 | 481.9 | 58,100  | 94,400  | 55.6 | 486.6 | 50,500  | 104,000 | 58.2 | 492.5 | 39,300 | 101,900 | 215 |
| 220 | 52.7 | 478.1 | 54,900  | 92,000  | 54.5 | 483.0 | 47,600  | 103,500 | 57.1 | 489.2 | 36,600 | 98,200  | 220 |
| 225 | 51.5 | 474.1 | 52,000  | 89,500  | 53.4 | 479.3 | 44,800  | 102,600 | 56.0 | 485.8 | 34,000 | 94,600  | 225 |
| 230 | 50.3 | 469.9 | 49,100  | 87,200  | 52.2 | 475.3 | 42,100  | 99,000  | 54.9 | 482.3 | 31,600 | 91,200  | 230 |
| 240 | 47.9 | 461.0 | 43,700  | 82,600  | 49.8 | 467.0 | 37,000  | 92,400  | 52.6 | 474.7 | 27,000 | 84,900  | 240 |
| 250 | 45.3 | 451.2 | 38,800  | 78,100  | 47.3 | 457.9 | 32,300  | 86,200  | 50.2 | 466.5 | 22,700 | 79,100  | 250 |
| 260 | 42.6 | 440.6 | 34,200  | 73,900  | 44.7 | 448.0 | 28,000  | 80,600  | 47.7 | 457.5 |        | 73,700  | 260 |
| 270 | 39.8 | 428.8 | 30,000  | 70,100  | 42.0 | 437.1 | 24,000  | 75,300  | 45.1 | 447.7 |        | 68,700  | 270 |
| 280 | 36.8 | 415.8 | 26,000  | 66,500  | 39.1 | 425.1 | 20,300  | 70,400  | 42.4 | 437.0 |        | 64,100  | 280 |
| 290 | 33.5 | 401.1 | 22,300  | 63,300  | 36.1 | 411.7 |         | 65,900  | 39.6 | 425.1 |        | 59,800  | 290 |
| 300 | 29.9 | 384.4 |         | 60,500  | 32.7 | 396.6 |         | 61,700  | 36.6 | 412.0 |        | 55,800  | 300 |
| 310 | 25.9 | 364.9 |         | 58,200  | 29.1 | 379.4 |         | 57,700  | 33.3 | 397.2 |        | 52,000  | 310 |
| 320 | 21.1 | 341.0 |         | 56,600  | 24.9 | 359.0 |         | 53,900  | 29.7 | 380.4 |        | 48,400  | 320 |
| 330 | 14.9 | 308.7 |         | 53,800  | 19.9 | 333.8 |         | 50,300  | 25.6 | 360.6 |        | 45,100  | 330 |
| 340 |      |       |         |         | 13.1 | 298.2 |         | 46,900  | 20.8 | 336.3 |        | 41,900  | 340 |
| 350 |      |       |         |         |      |       |         |         | 14.4 | 303.1 |        | 38,800  | 350 |
| 360 |      |       |         |         |      |       |         |         |      |       |        |         | 360 |
| 370 |      |       |         |         |      |       |         |         |      |       |        |         | 370 |

# MLC650 VPC-MAX S-1

ASME B30.5



440,900 lb



|     | 75°  |       |        | 70°  |       |        |     |
|-----|------|-------|--------|------|-------|--------|-----|
|     |      |       |        |      |       |        |     |
| ft  | °    | ft    | lb     | °    | ft    | lb     | ft  |
| 115 |      |       |        |      |       |        | 115 |
| 120 |      |       |        |      |       |        | 120 |
| 125 |      |       |        |      |       |        | 125 |
| 130 |      |       |        |      |       |        | 130 |
| 135 |      |       |        |      |       |        | 135 |
| 140 |      |       |        |      |       |        | 140 |
| 145 |      |       |        |      |       |        | 145 |
| 150 |      |       |        |      |       |        | 150 |
| 155 |      |       |        |      |       |        | 155 |
| 160 |      |       |        |      |       |        | 160 |
| 165 |      |       |        |      |       |        | 165 |
| 170 |      |       |        |      |       |        | 170 |
| 175 |      |       |        |      |       |        | 175 |
| 180 |      |       |        |      |       |        | 180 |
| 185 |      |       |        |      |       |        | 185 |
| 190 |      |       |        |      |       |        | 190 |
| 195 |      |       |        |      |       |        | 195 |
| 200 |      |       |        |      |       |        | 200 |
| 205 | 64.3 | 504.4 | 95,400 |      |       |        | 205 |
| 210 | 63.3 | 501.9 | 91,700 |      |       |        | 210 |
| 215 | 62.3 | 499.2 | 88,100 |      |       |        | 215 |
| 220 | 61.2 | 496.4 | 84,700 |      |       |        | 220 |
| 225 | 60.1 | 493.5 | 81,500 |      |       |        | 225 |
| 230 | 59.1 | 490.5 | 78,400 |      |       |        | 230 |
| 240 | 56.9 | 484.0 | 72,600 |      |       |        | 240 |
| 250 | 54.6 | 477.0 | 67,300 | 58.8 | 483.4 | 55,800 | 250 |
| 260 | 52.3 | 469.4 | 62,400 | 56.6 | 476.9 | 51,400 | 260 |
| 270 | 49.9 | 461.1 | 57,900 | 54.3 | 469.8 | 47,300 | 270 |
| 280 | 47.5 | 452.0 | 53,700 | 52.0 | 462.1 | 43,400 | 280 |
| 290 | 44.9 | 442.2 | 49,700 | 49.6 | 453.7 | 39,900 | 290 |
| 300 | 42.2 | 431.3 | 46,100 | 47.1 | 444.5 | 36,600 | 300 |
| 310 | 39.3 | 419.4 | 42,600 | 44.5 | 434.5 | 33,400 | 310 |
| 320 | 36.2 | 406.1 | 39,400 | 41.8 | 423.5 | 30,300 | 320 |
| 330 | 32.9 | 391.1 | 36,300 | 38.9 | 411.4 | 27,100 | 330 |
| 340 | 29.3 | 374.0 | 33,400 | 35.8 | 397.9 | 24,000 | 340 |
| 350 | 25.2 | 353.9 | 30,700 | 32.4 | 382.6 | 21,200 | 350 |
| 360 | 20.2 | 328.9 | 28,100 |      |       |        | 360 |
| 370 | 13.6 | 294.2 | 25,500 |      |       |        | 370 |

# MLC650 VPC-MAX S-1

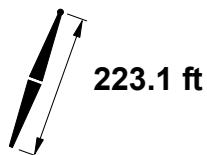
ASME B30.5



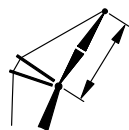
440,900 lb



360°



223.1 ft

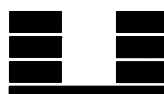


331.4 ft

|     | 85°  |       |        |        | 83°  |       |        |        | 80°  |       |        |        |     |
|-----|------|-------|--------|--------|------|-------|--------|--------|------|-------|--------|--------|-----|
|     |      |       |        |        |      |       |        |        |      |       |        |        |     |
| ft  | °    | ft    | lb     | lb     | °    | ft    | lb     | lb     | °    | ft    | lb     | lb     | ft  |
| 120 | 74.6 | 551.0 | 94,400 | 94,400 |      |       |        |        |      |       |        |        | 120 |
| 125 | 73.7 | 549.5 | 94,100 | 94,100 |      |       |        |        |      |       |        |        | 125 |
| 130 | 72.8 | 547.9 | 93,700 | 93,700 |      |       |        |        |      |       |        |        | 130 |
| 135 | 71.9 | 546.3 | 93,300 | 93,300 |      |       |        |        |      |       |        |        | 135 |
| 140 | 71.0 | 544.5 | 92,900 | 92,900 |      |       |        |        |      |       |        |        | 140 |
| 145 | 70.0 | 542.7 | 92,500 | 92,500 | 72.4 | 546.3 | 92,600 | 92,600 |      |       |        |        | 145 |
| 150 | 69.1 | 540.7 | 92,000 | 92,000 | 71.5 | 544.6 | 92,300 | 92,300 |      |       |        |        | 150 |
| 155 | 68.2 | 538.7 | 91,500 | 91,500 | 70.5 | 542.8 | 92,000 | 92,000 |      |       |        |        | 155 |
| 160 | 67.2 | 536.6 | 91,000 | 91,000 | 69.6 | 540.9 | 91,700 | 91,700 |      |       |        |        | 160 |
| 165 | 66.3 | 534.3 | 90,500 | 90,500 | 68.7 | 538.9 | 91,400 | 91,400 |      |       |        |        | 165 |
| 170 | 65.3 | 532.0 | 89,900 | 89,900 | 67.8 | 536.8 | 86,100 | 91,100 | 69.9 | 539.6 | 71,000 | 88,900 | 170 |
| 175 | 64.4 | 529.6 | 86,000 | 89,400 | 66.8 | 534.7 | 81,100 | 90,700 | 69.0 | 537.6 | 66,500 | 88,800 | 175 |
| 180 | 63.4 | 527.1 | 81,300 | 88,900 | 65.9 | 532.4 | 76,400 | 90,300 | 68.0 | 535.6 | 62,200 | 88,800 | 180 |
| 185 | 62.4 | 524.4 | 76,800 | 88,300 | 64.9 | 530.0 | 72,000 | 89,900 | 67.1 | 533.5 | 58,200 | 88,700 | 185 |
| 190 | 61.4 | 521.7 | 72,600 | 87,800 | 63.9 | 527.5 | 67,800 | 89,500 | 66.2 | 531.2 | 54,400 | 88,500 | 190 |
| 195 | 60.4 | 518.8 | 68,600 | 87,200 | 63.0 | 525.0 | 63,900 | 89,100 | 65.2 | 528.9 | 50,800 | 88,400 | 195 |
| 200 | 59.4 | 515.8 | 64,900 | 86,600 | 62.0 | 522.3 | 60,100 | 88,700 | 64.2 | 526.4 | 47,400 | 88,200 | 200 |
| 205 | 58.4 | 512.7 | 61,300 | 86,100 | 61.0 | 519.5 | 56,600 | 88,200 | 63.3 | 523.9 | 44,200 | 88,000 | 205 |
| 210 | 57.4 | 509.5 | 57,800 | 85,500 | 60.0 | 516.5 | 53,200 | 87,800 | 62.3 | 521.2 | 41,100 | 87,700 | 210 |
| 215 | 56.4 | 506.1 | 54,600 | 85,000 | 59.0 | 513.5 | 49,900 | 87,300 | 61.3 | 518.5 | 38,200 | 87,500 | 215 |
| 220 | 55.3 | 502.6 | 51,400 | 84,400 | 58.0 | 510.3 | 46,900 | 86,900 | 60.3 | 515.6 | 35,400 | 87,300 | 220 |
| 225 | 54.2 | 499.0 | 48,500 | 82,700 | 56.9 | 507.1 | 43,900 | 86,400 | 59.3 | 512.6 | 32,700 | 87,000 | 225 |
| 230 | 53.1 | 495.2 | 45,600 | 80,800 | 55.9 | 503.6 | 41,100 | 85,900 | 58.3 | 509.4 | 30,200 | 86,700 | 230 |
| 240 | 50.9 | 487.2 | 40,300 | 77,000 | 54.8 | 500.1 | 38,500 | 85,500 | 57.2 | 506.2 | 27,800 | 86,400 | 240 |
| 250 | 48.6 | 478.5 | 35,400 | 73,200 | 52.7 | 492.5 | 33,400 | 84,600 | 55.2 | 499.3 | 23,200 | 82,000 | 250 |
| 260 | 46.3 | 469.1 | 30,800 | 69,500 | 50.4 | 484.4 | 28,800 | 83,400 | 53.0 | 491.9 |        | 76,200 | 260 |
| 270 | 43.8 | 458.8 | 26,600 | 65,800 | 48.1 | 475.5 | 24,500 | 77,800 | 50.8 | 483.8 |        | 70,800 | 270 |
| 280 | 41.2 | 447.6 | 22,700 | 62,400 | 45.7 | 465.9 | 20,500 | 72,600 | 48.5 | 475.1 |        | 65,900 | 280 |
| 290 | 38.4 | 435.3 |        | 59,600 | 43.2 | 455.4 |        | 67,700 | 46.1 | 465.6 |        | 61,300 | 290 |
| 300 | 35.5 | 421.6 |        | 56,700 | 40.6 | 444.0 |        | 63,200 | 43.6 | 455.2 |        | 57,000 | 300 |
| 310 | 32.4 | 406.3 |        | 54,000 | 37.8 | 431.4 |        | 59,000 | 41.0 | 443.9 |        | 53,000 | 310 |
| 320 | 28.9 | 388.9 |        | 51,800 | 34.8 | 417.4 |        | 55,000 | 38.2 | 431.5 |        | 49,300 | 320 |
| 330 | 25.0 | 368.5 |        | 50,000 | 31.6 | 401.7 |        | 51,300 | 35.3 | 417.8 |        | 45,700 | 330 |
| 340 | 20.3 | 343.6 |        | 46,000 | 28.0 | 383.7 |        | 47,800 | 32.1 | 402.3 |        | 42,400 | 340 |
| 350 | 14.2 | 309.8 |        | 41,600 | 24.0 | 362.4 |        | 44,500 | 28.6 | 384.7 |        | 39,300 | 350 |
| 360 |      |       |        |        | 19.1 | 336.1 |        | 41,300 | 24.7 | 364.1 |        | 36,300 | 360 |
| 370 |      |       |        |        | 12.4 | 298.7 |        | 38,300 | 19.9 | 338.8 |        | 33,500 | 370 |
|     |      |       |        |        |      |       |        |        | 13.7 | 304.0 |        | 30,700 | 370 |

# MLC650 VPC-MAX S-1

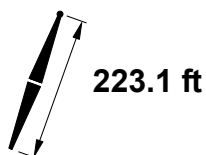
ASME B30.5



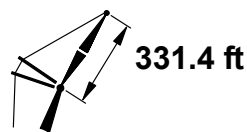
440,900 lb



360°



223.1 ft

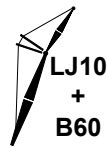


331.4 ft

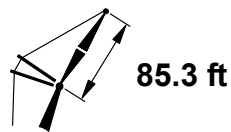
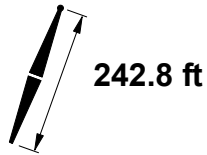
|     | 75°  |       |        | 70°  |       |        |     |
|-----|------|-------|--------|------|-------|--------|-----|
|     |      |       |        |      |       |        |     |
|     | ft   | °     | ft     | lb   | °     | ft     | lb  |
| 120 |      |       |        |      |       |        | 120 |
| 125 |      |       |        |      |       |        | 125 |
| 130 |      |       |        |      |       |        | 130 |
| 135 |      |       |        |      |       |        | 135 |
| 140 |      |       |        |      |       |        | 140 |
| 145 |      |       |        |      |       |        | 145 |
| 150 |      |       |        |      |       |        | 150 |
| 155 |      |       |        |      |       |        | 155 |
| 160 |      |       |        |      |       |        | 160 |
| 165 |      |       |        |      |       |        | 165 |
| 170 |      |       |        |      |       |        | 170 |
| 175 |      |       |        |      |       |        | 175 |
| 180 |      |       |        |      |       |        | 180 |
| 185 |      |       |        |      |       |        | 185 |
| 190 |      |       |        |      |       |        | 190 |
| 195 |      |       |        |      |       |        | 195 |
| 200 |      |       |        |      |       |        | 200 |
| 205 |      |       |        |      |       |        | 205 |
| 210 |      |       |        |      |       |        | 210 |
| 215 | 64.0 | 521.4 | 81,700 |      |       |        | 215 |
| 220 | 63.1 | 518.9 | 81,500 |      |       |        | 220 |
| 225 | 62.1 | 516.2 | 78,300 |      |       |        | 225 |
| 230 | 61.1 | 513.4 | 75,200 |      |       |        | 230 |
| 240 | 59.1 | 507.5 | 69,500 |      |       |        | 240 |
| 250 | 57.0 | 501.0 | 64,200 |      |       |        | 250 |
| 260 | 54.9 | 494.1 | 59,300 | 58.8 | 500.4 | 48,100 | 260 |
| 270 | 52.8 | 486.6 | 54,800 | 56.7 | 493.9 | 44,000 | 270 |
| 280 | 50.5 | 478.4 | 50,600 | 54.6 | 486.9 | 40,200 | 280 |
| 290 | 48.2 | 469.6 | 46,700 | 52.4 | 479.3 | 36,700 | 290 |
| 300 | 45.8 | 460.1 | 43,100 | 50.2 | 471.1 | 32,900 | 300 |
| 310 | 43.3 | 449.6 | 39,700 | 47.9 | 462.1 | 29,300 | 310 |
| 320 | 40.7 | 438.3 | 36,500 | 45.5 | 452.5 | 26,000 | 320 |
| 330 | 38.0 | 425.7 | 33,500 | 43.0 | 441.9 | 22,800 | 330 |
| 340 | 35.0 | 411.8 | 30,600 |      |       |        | 340 |
| 350 | 31.8 | 396.2 | 27,900 |      |       |        | 350 |
| 360 | 28.2 | 378.3 | 24,900 |      |       |        | 360 |
| 370 | 24.2 | 357.3 | 22,000 |      |       |        | 370 |

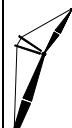
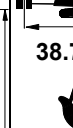
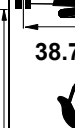
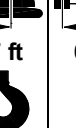
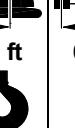
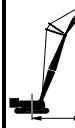
# MLC650 VPC-MAX S-1

ASME B30.5



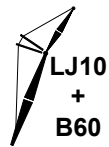
440,900 lb



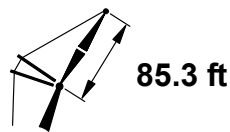
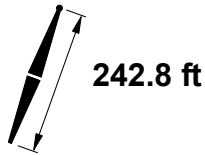
|     |  85° |                                                                                   |                                                                                   |                                                                                   |                                                                                   |  83° |                                                                                   |                                                                                   |                                                                                   |                                                                                    |  80° |                                                                                     |                                                                                     |                                                                                     |  |  |
|-----|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--|--|
|     |       |  |  |  |  |      |  |  |  |  |      |  |  |  |  |  |
|     | ft                                                                                    | °                                                                                 | ft                                                                                | lb                                                                                | lb                                                                                | °                                                                                     | ft                                                                                | lb                                                                                | lb                                                                                | °                                                                                  | ft                                                                                      | lb                                                                                  | lb                                                                                  | ft                                                                                  |  |  |
| 60  | 72.0                                                                                  |                                                                                   | 332.1                                                                             | 433,500 <b>d</b>                                                                  | 517,200 <b>d</b>                                                                  |                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                         |                                                                                     |                                                                                     | 60                                                                                  |  |  |
| 65  | 68.3                                                                                  |                                                                                   | 330.0                                                                             | 393,800 <b>c</b>                                                                  | 512,300 <b>c</b>                                                                  |                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                         |                                                                                     |                                                                                     | 65                                                                                  |  |  |
| 70  | 64.6                                                                                  |                                                                                   | 327.5                                                                             | 360,100 <b>c</b>                                                                  | 505,300 <b>c</b>                                                                  | 70.9                                                                                  | 330.5                                                                             | 338,700 <b>c</b>                                                                  | 521,500 <b>c</b>                                                                  |                                                                                    |                                                                                         |                                                                                     |                                                                                     | 70                                                                                  |  |  |
| 75  | 60.7                                                                                  |                                                                                   | 324.6                                                                             | 331,200 <b>b</b>                                                                  | 478,000 <b>b</b>                                                                  | 67.2                                                                                  | 328.3                                                                             | 311,400 <b>c</b>                                                                  | 495,600 <b>c</b>                                                                  |                                                                                    |                                                                                         |                                                                                     |                                                                                     | 75                                                                                  |  |  |
| 80  | 56.6                                                                                  |                                                                                   | 321.2                                                                             | 306,100 <b>b</b>                                                                  | 446,000 <b>b</b>                                                                  | 63.4                                                                                  | 325.6                                                                             | 287,700 <b>c</b>                                                                  | 458,300 <b>c</b>                                                                  |                                                                                    |                                                                                         |                                                                                     |                                                                                     | 80                                                                                  |  |  |
| 85  | 52.4                                                                                  |                                                                                   | 317.2                                                                             | 284,000 <b>b</b>                                                                  | 418,700 <b>b</b>                                                                  | 59.5                                                                                  | 322.6                                                                             | 266,800 <b>b</b>                                                                  | 426,000 <b>b</b>                                                                  | 69.1                                                                               | 327.4                                                                                   | 241,100 <b>c</b>                                                                    | 405,800 <b>c</b>                                                                    | 85                                                                                  |  |  |
| 90  | 47.8                                                                                  |                                                                                   | 312.5                                                                             | 264,400                                                                           | 395,600                                                                           | 55.3                                                                                  | 319.0                                                                             | 248,400 <b>b</b>                                                                  | 397,600 <b>b</b>                                                                  | 65.4                                                                               | 325.0                                                                                   | 224,300 <b>c</b>                                                                    | 378,700 <b>c</b>                                                                    | 90                                                                                  |  |  |
| 95  | 42.8                                                                                  |                                                                                   | 307.1                                                                             | 246,900                                                                           | 376,500                                                                           | 51.0                                                                                  | 314.8                                                                             | 231,900                                                                           | 372,500                                                                           | 61.5                                                                               | 322.2                                                                                   | 209,300 <b>b</b>                                                                    | 354,800 <b>b</b>                                                                    | 95                                                                                  |  |  |
| 100 | 37.2                                                                                  |                                                                                   | 300.4                                                                             | 231,100                                                                           | 361,100                                                                           | 46.3                                                                                  | 309.9                                                                             | 217,100                                                                           | 350,000                                                                           | 57.5                                                                               | 318.9                                                                                   | 195,900 <b>b</b>                                                                    | 333,400 <b>b</b>                                                                    | 100                                                                                 |  |  |
| 105 | 30.7                                                                                  |                                                                                   | 292.1                                                                             | 216,700                                                                           | 340,300                                                                           | 41.1                                                                                  | 304.1                                                                             | 203,700                                                                           | 329,900                                                                           | 53.3                                                                               | 315.0                                                                                   | 183,700 <b>b</b>                                                                    | 314,200 <b>b</b>                                                                    | 105                                                                                 |  |  |
| 110 | 22.3                                                                                  |                                                                                   | 280.6                                                                             | 203,300                                                                           | 321,400                                                                           | 35.3                                                                                  | 297.1                                                                             | 191,400                                                                           | 311,700                                                                           | 48.7                                                                               | 310.5                                                                                   | 172,600                                                                             | 296,900                                                                             | 110                                                                                 |  |  |
| 115 |                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 28.4                                                                                  | 288.0                                                                             | 180,000                                                                           | 295,100                                                                           | 43.8                                                                               | 305.2                                                                                   | 162,400                                                                             | 281,200                                                                             | 115                                                                                 |  |  |
| 120 |                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 18.8                                                                                  | 274.7                                                                             | 169,200                                                                           | 279,800                                                                           | 38.4                                                                               | 298.8                                                                                   | 153,000                                                                             | 266,800                                                                             | 120                                                                                 |  |  |
| 125 |                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                       |                                                                                   |                                                                                   |                                                                                   | 32.1                                                                               | 290.9                                                                                   | 144,300                                                                             | 253,600                                                                             | 125                                                                                 |  |  |
| 130 |                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                       |                                                                                   |                                                                                   |                                                                                   | 24.3                                                                               | 280.3                                                                                   | 136,000                                                                             | 241,400                                                                             | 130                                                                                 |  |  |
| 135 |                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                       |                                                                                   |                                                                                   |                                                                                   | 11.0                                                                               | 261.2                                                                                   | 127,500                                                                             | 229,700                                                                             | 135                                                                                 |  |  |
| 140 |                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                         |                                                                                     |                                                                                     | 140                                                                                 |  |  |
| 145 |                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                         |                                                                                     |                                                                                     | 145                                                                                 |  |  |
| 150 |                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                         |                                                                                     |                                                                                     | 150                                                                                 |  |  |
| 155 |                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                         |                                                                                     |                                                                                     | 155                                                                                 |  |  |
| 160 |                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                         |                                                                                     |                                                                                     | 160                                                                                 |  |  |
| 165 |                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                         |                                                                                     |                                                                                     | 165                                                                                 |  |  |
| 170 |                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                         |                                                                                     |                                                                                     | 170                                                                                 |  |  |
| 175 |                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                         |                                                                                     |                                                                                     | 175                                                                                 |  |  |
| 180 |                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                         |                                                                                     |                                                                                     | 180                                                                                 |  |  |
| 185 |                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                         |                                                                                     |                                                                                     | 185                                                                                 |  |  |
| 190 |                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                         |                                                                                     |                                                                                     | 190                                                                                 |  |  |
| 195 |                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                         |                                                                                     |                                                                                     | 195                                                                                 |  |  |

# MLC650 VPC-MAX S-1

ASME B30.5



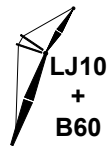
440,900 lb



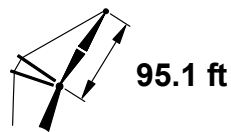
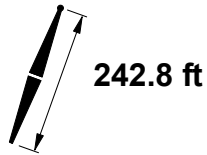
|     | 75°  |       |           |           | 70°  |       |          |           | 65°  |       |        |         |     |
|-----|------|-------|-----------|-----------|------|-------|----------|-----------|------|-------|--------|---------|-----|
|     |      |       |           |           |      |       |          |           |      |       |        |         |     |
| ft  | °    | ft    | lb        | lb        | °    | ft    | lb       | lb        | °    | ft    | lb     | lb      | ft  |
| 60  |      |       |           |           |      |       |          |           |      |       |        |         | 60  |
| 65  |      |       |           |           |      |       |          |           |      |       |        |         | 65  |
| 70  |      |       |           |           |      |       |          |           |      |       |        |         | 70  |
| 75  |      |       |           |           |      |       |          |           |      |       |        |         | 75  |
| 80  |      |       |           |           |      |       |          |           |      |       |        |         | 80  |
| 85  |      |       |           |           |      |       |          |           |      |       |        |         | 85  |
| 90  |      |       |           |           |      |       |          |           |      |       |        |         | 90  |
| 95  |      |       |           |           |      |       |          |           |      |       |        |         | 95  |
| 100 |      |       |           |           |      |       |          |           |      |       |        |         | 100 |
| 105 |      |       |           |           |      |       |          |           |      |       |        |         | 105 |
| 110 |      |       |           |           |      |       |          |           |      |       |        |         | 110 |
| 115 | 62.0 | 317.7 | 132,300 b | 257,900 b |      |       |          |           |      |       |        |         | 115 |
| 120 | 58.0 | 314.5 | 124,500 b | 244,700 b |      |       |          |           |      |       |        |         | 120 |
| 125 | 53.8 | 310.7 | 117,300 b | 232,600 b |      |       |          |           |      |       |        |         | 125 |
| 130 | 49.4 | 306.3 | 110,600   | 221,500   |      |       |          |           |      |       |        |         | 130 |
| 135 | 44.5 | 301.1 | 104,400   | 211,300   |      |       |          |           |      |       |        |         | 135 |
| 140 | 39.2 | 294.9 | 98,500    | 201,700   | 58.2 | 307.9 | 74,900 b | 183,500 b |      |       |        |         | 140 |
| 145 | 33.0 | 287.2 | 93,000    | 192,800   | 54.0 | 304.2 | 70,400 b | 175,500 b |      |       |        |         | 145 |
| 150 | 25.5 | 277.1 | 87,600    | 184,400   | 49.5 | 299.8 | 66,300   | 167,900   |      |       |        |         | 150 |
| 155 | 13.7 | 260.3 | 82,000    | 176,300   | 44.7 | 294.6 | 62,300   | 160,900   |      |       |        |         | 155 |
| 160 |      |       |           |           | 39.4 | 288.5 | 58,600   | 154,200   |      |       |        |         | 160 |
| 165 |      |       |           |           | 33.3 | 280.9 | 54,900   | 148,000   | 53.5 | 295.4 | 35,900 | 133,400 | 165 |
| 170 |      |       |           |           | 25.7 | 270.8 | 51,300   | 142,000   | 49.0 | 290.9 | 33,200 | 128,100 | 170 |
| 175 |      |       |           |           | 14.3 | 254.5 | 47,400   | 136,000   | 44.2 | 285.7 | 30,700 | 123,100 | 175 |
| 180 |      |       |           |           |      |       |          |           | 38.8 | 279.4 | 28,200 | 118,300 | 180 |
| 185 |      |       |           |           |      |       |          |           | 32.6 | 271.6 | 25,800 | 113,700 | 185 |
| 190 |      |       |           |           |      |       |          |           | 24.9 | 261.3 | 23,300 | 109,200 | 190 |
| 195 |      |       |           |           |      |       |          |           | 12.4 | 243.4 | 20,400 | 104,700 | 195 |

# MLC650 VPC-MAX S-1

ASME B30.5



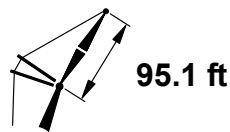
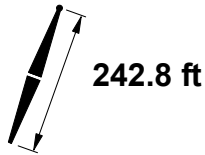
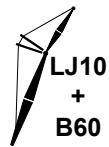
440,900 lb



|     | 85°  |       |           |           | 83°  |       |           |           | 80°  |       |           |           |     |
|-----|------|-------|-----------|-----------|------|-------|-----------|-----------|------|-------|-----------|-----------|-----|
|     |      |       |           |           |      |       |           |           |      |       |           |           |     |
| ft  | °    | ft    | lb        | lb        | °    | ft    | lb        | lb        | °    | ft    | lb        | lb        | ft  |
| 60  | 73.9 | 342.6 | 430,800 c | 478,700 c |      |       |           |           |      |       |           |           | 60  |
| 65  | 70.7 | 340.7 | 391,200 c | 476,800 c |      |       |           |           |      |       |           |           | 65  |
| 70  | 67.4 | 338.5 | 357,600 c | 471,700 c | 72.9 | 341.0 | 335,700 c | 482,000 c |      |       |           |           | 70  |
| 75  | 64.1 | 336.0 | 328,800 b | 465,500 b | 69.7 | 339.1 | 308,500 c | 481,300 c |      |       |           |           | 75  |
| 80  | 60.6 | 333.0 | 303,700 b | 442,000 b | 66.4 | 336.8 | 284,900 b | 455,400 b |      |       |           |           | 80  |
| 85  | 57.0 | 329.7 | 281,700 b | 414,200 b | 63.0 | 334.1 | 264,200 b | 423,300 b |      |       |           |           | 85  |
| 90  | 53.2 | 325.8 | 262,300   | 390,000   | 59.5 | 331.0 | 245,900 b | 395,000 b | 68.1 | 335.9 | 221,200 b | 375,800 b | 90  |
| 95  | 49.1 | 321.4 | 244,900   | 369,200   | 55.8 | 327.5 | 229,500   | 370,000   | 64.8 | 333.5 | 206,300 b | 352,000 b | 95  |
| 100 | 44.8 | 316.3 | 229,300   | 351,600   | 51.9 | 323.5 | 214,800   | 347,800   | 61.3 | 330.6 | 193,000 b | 330,700 b | 100 |
| 105 | 40.1 | 310.3 | 215,200   | 337,000   | 47.8 | 318.9 | 201,600   | 327,800   | 57.7 | 327.4 | 180,900 b | 311,700 b | 105 |
| 110 | 34.9 | 303.1 | 202,300   | 319,900   | 43.4 | 313.5 | 189,500   | 309,700   | 53.9 | 323.6 | 170,000   | 294,500   | 110 |
| 115 | 28.7 | 294.1 | 190,400   | 302,900   | 38.6 | 307.2 | 178,400   | 293,300   | 50.0 | 319.3 | 159,900   | 278,900   | 115 |
| 120 | 20.6 | 281.7 | 179,200   | 287,300   | 33.1 | 299.5 | 168,100   | 278,400   | 45.7 | 314.3 | 150,700   | 264,700   | 120 |
| 125 |      |       |           |           | 26.4 | 289.7 | 158,600   | 264,600   | 41.1 | 308.5 | 142,200   | 251,700   | 125 |
| 130 |      |       |           |           | 17.3 | 275.4 | 149,400   | 251,700   | 36.0 | 301.6 | 134,300   | 239,600   | 130 |
| 135 |      |       |           |           |      |       |           |           | 30.0 | 293.1 | 126,800   | 228,500   | 135 |
| 140 |      |       |           |           |      |       |           |           | 22.5 | 281.6 | 119,700   | 218,100   | 140 |
| 145 |      |       |           |           |      |       |           |           | 9.4  | 260.5 | 112,300   | 208,100   | 145 |
| 150 |      |       |           |           |      |       |           |           |      |       |           |           | 150 |
| 155 |      |       |           |           |      |       |           |           |      |       |           |           | 155 |
| 160 |      |       |           |           |      |       |           |           |      |       |           |           | 160 |
| 165 |      |       |           |           |      |       |           |           |      |       |           |           | 165 |
| 170 |      |       |           |           |      |       |           |           |      |       |           |           | 170 |
| 175 |      |       |           |           |      |       |           |           |      |       |           |           | 175 |
| 180 |      |       |           |           |      |       |           |           |      |       |           |           | 180 |
| 185 |      |       |           |           |      |       |           |           |      |       |           |           | 185 |
| 190 |      |       |           |           |      |       |           |           |      |       |           |           | 190 |
| 195 |      |       |           |           |      |       |           |           |      |       |           |           | 195 |
| 200 |      |       |           |           |      |       |           |           |      |       |           |           | 200 |
| 205 |      |       |           |           |      |       |           |           |      |       |           |           | 205 |

# MLC650 VPC-MAX S-1

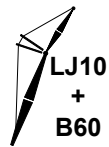
ASME B30.5



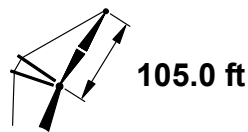
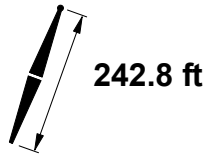
|     | 75°  |       |           |           | 70°  |       |        |         | 65°  |       |        |         |     |
|-----|------|-------|-----------|-----------|------|-------|--------|---------|------|-------|--------|---------|-----|
|     |      |       |           |           |      |       |        |         |      |       |        |         |     |
| ft  | °    | ft    | lb        | lb        | °    | ft    | lb     | lb      | °    | ft    | lb     | lb      | ft  |
| 60  |      |       |           |           |      |       |        |         |      |       |        |         | 60  |
| 65  |      |       |           |           |      |       |        |         |      |       |        |         | 65  |
| 70  |      |       |           |           |      |       |        |         |      |       |        |         | 70  |
| 75  |      |       |           |           |      |       |        |         |      |       |        |         | 75  |
| 80  |      |       |           |           |      |       |        |         |      |       |        |         | 80  |
| 85  |      |       |           |           |      |       |        |         |      |       |        |         | 85  |
| 90  |      |       |           |           |      |       |        |         |      |       |        |         | 90  |
| 95  |      |       |           |           |      |       |        |         |      |       |        |         | 95  |
| 100 |      |       |           |           |      |       |        |         |      |       |        |         | 100 |
| 105 |      |       |           |           |      |       |        |         |      |       |        |         | 105 |
| 110 |      |       |           |           |      |       |        |         |      |       |        |         | 110 |
| 115 |      |       |           |           |      |       |        |         |      |       |        |         | 115 |
| 120 | 61.8 | 326.2 | 121,300 b | 242,000 b |      |       |        |         |      |       |        |         | 120 |
| 125 | 58.2 | 323.0 | 114,200 b | 230,000 b |      |       |        |         |      |       |        |         | 125 |
| 130 | 54.5 | 319.3 | 107,700   | 219,000   |      |       |        |         |      |       |        |         | 130 |
| 135 | 50.5 | 315.0 | 101,600   | 208,900   |      |       |        |         |      |       |        |         | 135 |
| 140 | 46.3 | 310.2 | 95,900    | 199,500   |      |       |        |         |      |       |        |         | 140 |
| 145 | 41.8 | 304.5 | 90,500    | 190,700   | 58.3 | 316.4 | 67,100 | 172,800 |      |       |        |         | 145 |
| 150 | 36.7 | 297.8 | 85,400    | 182,500   | 54.6 | 312.7 | 63,100 | 165,400 |      |       |        |         | 150 |
| 155 | 30.9 | 289.5 | 80,600    | 174,800   | 50.6 | 308.5 | 59,200 | 158,400 |      |       |        |         | 155 |
| 160 | 23.7 | 278.6 | 75,900    | 167,500   | 46.5 | 303.7 | 55,600 | 151,900 |      |       |        |         | 160 |
| 165 | 12.2 | 260.3 | 70,900    | 160,400   | 41.9 | 298.0 | 52,200 | 145,700 |      |       |        |         | 165 |
| 170 |      |       |           |           | 36.9 | 291.3 | 48,900 | 139,900 | 54.2 | 304.0 | 29,900 | 125,500 | 170 |
| 175 |      |       |           |           | 31.1 | 283.1 | 45,600 | 134,400 | 50.2 | 299.7 | 27,500 | 120,500 | 175 |
| 180 |      |       |           |           | 23.9 | 272.3 | 42,400 | 129,100 | 46.0 | 294.8 | 25,100 | 115,900 | 180 |
| 185 |      |       |           |           | 12.8 | 254.5 | 38,900 | 123,800 | 41.4 | 289.1 | 22,900 | 111,400 | 185 |
| 190 |      |       |           |           |      |       |        |         | 36.4 | 282.2 | 20,700 | 107,200 | 190 |
| 195 |      |       |           |           |      |       |        |         | 30.5 | 273.8 |        | 103,100 | 195 |
| 200 |      |       |           |           |      |       |        |         | 23.1 | 262.7 |        | 99,100  | 200 |
| 205 |      |       |           |           |      |       |        |         | 10.9 | 243.1 |        | 95,000  | 205 |

# MLC650 VPC-MAX S-1

ASME B30.5



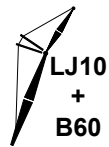
440,900 lb



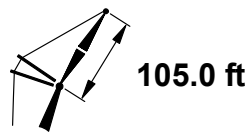
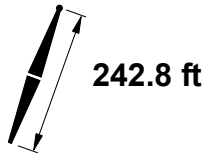
|     | 85°  |       |           |           | 83°  |       |           |           | 80°  |       |           |           |     |
|-----|------|-------|-----------|-----------|------|-------|-----------|-----------|------|-------|-----------|-----------|-----|
|     |      |       |           |           |      |       |           |           |      |       |           |           |     |
| ft  | °    | ft    | lb        | lb        | °    | ft    | lb        | lb        | °    | ft    | lb        | lb        | ft  |
| 65  | 72.6 | 351.2 | 421,400 c | 444,500 c |      |       |           |           |      |       |           |           | 65  |
| 70  | 69.7 | 349.3 | 385,400 c | 441,600 c |      |       |           |           |      |       |           |           | 70  |
| 75  | 66.7 | 347.0 | 354,600 b | 436,800 b | 71.7 | 349.6 | 334,000 c | 448,100 c |      |       |           |           | 75  |
| 80  | 63.6 | 344.4 | 327,800 b | 431,200 b | 68.8 | 347.6 | 308,600 b | 446,900 b |      |       |           |           | 80  |
| 85  | 60.5 | 341.5 | 304,400 b | 410,200 b | 65.8 | 345.3 | 286,400 b | 421,400 b |      |       |           |           | 85  |
| 90  | 57.2 | 338.2 | 283,600   | 385,700   | 62.7 | 342.6 | 266,800 b | 393,300 b |      |       |           |           | 90  |
| 95  | 53.8 | 334.4 | 265,100   | 364,300   | 59.5 | 339.5 | 249,300 b | 368,500 b | 67.3 | 344.5 | 225,600 b | 350,200 b | 95  |
| 100 | 50.2 | 330.2 | 248,500   | 345,600   | 56.1 | 336.1 | 233,600   | 346,300   | 64.3 | 341.9 | 211,300 b | 329,100 b | 100 |
| 105 | 46.4 | 325.3 | 233,500   | 329,500   | 52.7 | 332.2 | 219,400   | 326,400   | 61.1 | 339.1 | 198,300 b | 310,100 b | 105 |
| 110 | 42.3 | 319.8 | 219,900   | 315,900   | 49.0 | 327.7 | 206,600   | 308,500   | 57.9 | 335.9 | 186,500   | 293,000   | 110 |
| 115 | 37.9 | 313.3 | 207,400   | 302,100   | 45.2 | 322.7 | 194,800   | 292,200   | 54.5 | 332.2 | 175,800   | 277,500   | 115 |
| 120 | 32.9 | 305.6 | 195,900   | 286,700   | 41.0 | 316.9 | 184,000   | 277,400   | 50.9 | 328.0 | 166,000   | 263,400   | 120 |
| 125 | 26.9 | 296.0 | 185,200   | 272,600   | 36.4 | 310.0 | 174,000   | 263,800   | 47.2 | 323.3 | 156,900   | 250,500   | 125 |
| 130 | 19.2 | 282.7 | 175,100   | 259,600   | 31.1 | 301.8 | 164,700   | 251,200   | 43.2 | 317.9 | 148,500   | 238,600   | 130 |
| 135 |      |       |           |           | 24.8 | 291.4 | 156,000   | 239,600   | 38.8 | 311.6 | 140,700   | 227,600   | 135 |
| 140 |      |       |           |           | 15.9 | 275.9 | 147,500   | 228,700   | 33.9 | 304.2 | 133,300   | 217,400   | 140 |
| 145 |      |       |           |           |      |       |           |           | 28.2 | 295.1 | 126,400   | 207,900   | 145 |
| 150 |      |       |           |           |      |       |           |           | 21.0 | 282.8 | 119,700   | 198,900   | 150 |
| 155 |      |       |           |           |      |       |           |           | 8.0  | 259.4 | 112,800   | 190,200   | 155 |
| 160 |      |       |           |           |      |       |           |           |      |       |           |           | 160 |
| 165 |      |       |           |           |      |       |           |           |      |       |           |           | 165 |
| 170 |      |       |           |           |      |       |           |           |      |       |           |           | 170 |
| 175 |      |       |           |           |      |       |           |           |      |       |           |           | 175 |
| 180 |      |       |           |           |      |       |           |           |      |       |           |           | 180 |
| 185 |      |       |           |           |      |       |           |           |      |       |           |           | 185 |
| 190 |      |       |           |           |      |       |           |           |      |       |           |           | 190 |
| 195 |      |       |           |           |      |       |           |           |      |       |           |           | 195 |
| 200 |      |       |           |           |      |       |           |           |      |       |           |           | 200 |
| 205 |      |       |           |           |      |       |           |           |      |       |           |           | 205 |
| 210 |      |       |           |           |      |       |           |           |      |       |           |           | 210 |
| 215 |      |       |           |           |      |       |           |           |      |       |           |           | 215 |

# MLC650 VPC-MAX S-1

ASME B30.5



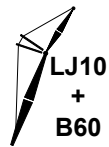
440,900 lb



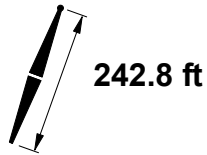
|     | 75°  |       |         |         | 70°  |       |        |         | 65°  |       |        |         |     |
|-----|------|-------|---------|---------|------|-------|--------|---------|------|-------|--------|---------|-----|
|     |      |       |         |         |      |       |        |         |      |       |        |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb     | lb      | °    | ft    | lb     | lb      | ft  |
| 65  |      |       |         |         |      |       |        |         |      |       |        |         | 65  |
| 70  |      |       |         |         |      |       |        |         |      |       |        |         | 70  |
| 75  |      |       |         |         |      |       |        |         |      |       |        |         | 75  |
| 80  |      |       |         |         |      |       |        |         |      |       |        |         | 80  |
| 85  |      |       |         |         |      |       |        |         |      |       |        |         | 85  |
| 90  |      |       |         |         |      |       |        |         |      |       |        |         | 90  |
| 95  |      |       |         |         |      |       |        |         |      |       |        |         | 95  |
| 100 |      |       |         |         |      |       |        |         |      |       |        |         | 100 |
| 105 |      |       |         |         |      |       |        |         |      |       |        |         | 105 |
| 110 |      |       |         |         |      |       |        |         |      |       |        |         | 110 |
| 115 |      |       |         |         |      |       |        |         |      |       |        |         | 115 |
| 120 | 64.7 | 337.4 | 135,800 | 240,300 |      |       |        |         |      |       |        |         | 120 |
| 125 | 61.5 | 334.6 | 128,200 | 228,400 |      |       |        |         |      |       |        |         | 125 |
| 130 | 58.3 | 331.4 | 121,100 | 217,500 |      |       |        |         |      |       |        |         | 130 |
| 135 | 55.0 | 327.8 | 114,500 | 207,400 |      |       |        |         |      |       |        |         | 135 |
| 140 | 51.4 | 323.8 | 108,300 | 198,100 |      |       |        |         |      |       |        |         | 140 |
| 145 | 47.7 | 319.1 | 102,600 | 189,500 |      |       |        |         |      |       |        |         | 145 |
| 150 | 43.7 | 313.8 | 97,200  | 181,400 | 58.4 | 324.9 | 74,200 | 163,800 |      |       |        |         | 150 |
| 155 | 39.4 | 307.7 | 92,100  | 173,800 | 55.1 | 321.3 | 70,000 | 156,900 |      |       |        |         | 155 |
| 160 | 34.6 | 300.4 | 87,300  | 166,700 | 51.5 | 317.2 | 66,100 | 150,500 |      |       |        |         | 160 |
| 165 | 29.1 | 291.6 | 82,700  | 160,000 | 47.8 | 312.6 | 62,400 | 144,400 |      |       |        |         | 165 |
| 170 | 22.1 | 279.9 | 78,200  | 153,600 | 43.9 | 307.3 | 58,900 | 138,700 |      |       |        |         | 170 |
| 175 | 10.9 | 260.0 | 73,400  | 147,300 | 39.6 | 301.2 | 55,500 | 133,300 | 54.7 | 312.6 | 36,600 | 119,000 | 175 |
| 180 |      |       |         |         | 34.8 | 294.0 | 52,200 | 128,200 | 51.2 | 308.4 | 34,100 | 114,400 | 180 |
| 185 |      |       |         |         | 29.3 | 285.2 | 49,100 | 123,300 | 47.5 | 303.8 | 31,600 | 110,100 | 185 |
| 190 |      |       |         |         | 22.4 | 273.7 | 45,900 | 118,600 | 43.5 | 298.4 | 29,300 | 105,900 | 190 |
| 195 |      |       |         |         | 11.5 | 254.4 | 42,500 | 113,900 | 39.1 | 292.2 | 27,000 | 102,000 | 195 |
| 200 |      |       |         |         |      |       |        |         | 34.3 | 284.9 | 24,800 | 98,200  | 200 |
| 205 |      |       |         |         |      |       |        |         | 28.7 | 275.9 | 22,600 | 94,500  | 205 |
| 210 |      |       |         |         |      |       |        |         | 21.6 | 263.9 | 20,400 | 90,900  | 210 |
| 215 |      |       |         |         |      |       |        |         | 9.6  | 242.5 |        | 87,200  | 215 |

# MLC650 VPC-MAX S-1

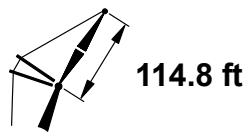
ASME B30.5



440,900 lb



242.8 ft

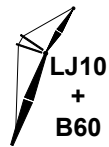


114.8 ft

|     | 85°  |       |           |           | 83°  |       |           |           | 80°  |       |           |           |     |
|-----|------|-------|-----------|-----------|------|-------|-----------|-----------|------|-------|-----------|-----------|-----|
|     |      |       |           |           |      |       |           |           |      |       |           |           |     |
| ft  | °    | ft    | lb        | lb        | °    | ft    | lb        | lb        | °    | ft    | lb        | lb        | ft  |
| 65  | 74.2 | 361.6 | 413,900 c | 413,900 c |      |       |           |           |      |       |           |           | 65  |
| 70  | 71.5 | 359.9 | 382,700 b | 412,500 b |      |       |           |           |      |       |           |           | 70  |
| 75  | 68.8 | 357.8 | 352,000 b | 409,300 b |      |       |           |           |      |       |           |           | 75  |
| 80  | 66.1 | 355.5 | 325,300 b | 405,000 b | 70.7 | 358.3 | 305,700 b | 416,200 b |      |       |           |           | 80  |
| 85  | 63.3 | 352.9 | 301,900 b | 399,900 b | 68.0 | 356.1 | 283,600 b | 414,700 b |      |       |           |           | 85  |
| 90  | 60.4 | 350.0 | 281,200   | 381,700   | 65.2 | 353.7 | 264,000 b | 390,600 b |      |       |           |           | 90  |
| 95  | 57.4 | 346.7 | 262,700   | 360,000   | 62.4 | 351.0 | 246,600   | 365,900   | 69.4 | 355.2 | 222,500 b | 347,300 b | 95  |
| 100 | 54.3 | 343.0 | 246,200   | 340,800   | 59.5 | 348.0 | 231,000   | 343,800   | 66.6 | 353.0 | 208,200 b | 326,300 b | 100 |
| 105 | 51.1 | 338.9 | 231,300   | 324,100   | 56.4 | 344.6 | 216,900   | 324,100   | 63.9 | 350.4 | 195,300   | 307,500   | 105 |
| 110 | 47.7 | 334.3 | 217,800   | 309,400   | 53.3 | 340.8 | 204,100   | 306,200   | 61.0 | 347.6 | 183,600   | 290,500   | 110 |
| 115 | 44.1 | 329.0 | 205,400   | 296,800   | 50.0 | 336.5 | 192,500   | 290,000   | 58.0 | 344.4 | 173,000   | 275,100   | 115 |
| 120 | 40.2 | 323.0 | 194,100   | 284,800   | 46.6 | 331.7 | 181,800   | 275,300   | 54.9 | 340.8 | 163,200   | 261,000   | 120 |
| 125 | 35.9 | 316.1 | 183,600   | 270,900   | 42.9 | 326.2 | 171,900   | 261,800   | 51.7 | 336.7 | 154,200   | 248,200   | 125 |
| 130 | 31.1 | 307.9 | 173,900   | 258,000   | 38.9 | 320.0 | 162,800   | 249,400   | 48.4 | 332.2 | 145,900   | 236,400   | 130 |
| 135 | 25.4 | 297.7 | 164,700   | 246,100   | 34.5 | 312.7 | 154,300   | 237,900   | 44.8 | 327.1 | 138,200   | 225,400   | 135 |
| 140 | 18.0 | 283.5 | 156,000   | 235,000   | 29.5 | 304.0 | 146,300   | 227,200   | 41.0 | 321.3 | 131,000   | 215,300   | 140 |
| 145 |      |       |           |           | 23.4 | 292.8 | 138,800   | 217,300   | 36.8 | 314.6 | 124,300   | 206,000   | 145 |
| 150 |      |       |           |           | 14.8 | 276.3 | 131,400   | 207,800   | 32.1 | 306.6 | 118,000   | 197,200   | 150 |
| 155 |      |       |           |           |      |       |           |           | 26.7 | 296.9 | 111,900   | 188,900   | 155 |
| 160 |      |       |           |           |      |       |           |           | 19.7 | 283.9 | 106,100   | 181,100   | 160 |
| 165 |      |       |           |           |      |       |           |           | 6.5  | 257.9 | 99,800    | 173,500   | 165 |
| 170 |      |       |           |           |      |       |           |           |      |       |           |           | 170 |
| 175 |      |       |           |           |      |       |           |           |      |       |           |           | 175 |
| 180 |      |       |           |           |      |       |           |           |      |       |           |           | 180 |
| 185 |      |       |           |           |      |       |           |           |      |       |           |           | 185 |
| 190 |      |       |           |           |      |       |           |           |      |       |           |           | 190 |
| 195 |      |       |           |           |      |       |           |           |      |       |           |           | 195 |
| 200 |      |       |           |           |      |       |           |           |      |       |           |           | 200 |
| 205 |      |       |           |           |      |       |           |           |      |       |           |           | 205 |
| 210 |      |       |           |           |      |       |           |           |      |       |           |           | 210 |
| 215 |      |       |           |           |      |       |           |           |      |       |           |           | 215 |
| 220 |      |       |           |           |      |       |           |           |      |       |           |           | 220 |
| 225 |      |       |           |           |      |       |           |           |      |       |           |           | 225 |

# MLC650 VPC-MAX S-1

ASME B30.5



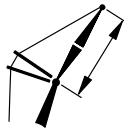
440,900 lb



360°



242.8 ft

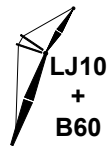


114.8 ft

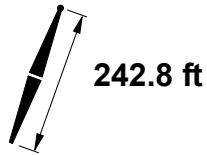
|     | 75°  |       |         |         | 70°  |       |        |         | 65°  |       |         |     |
|-----|------|-------|---------|---------|------|-------|--------|---------|------|-------|---------|-----|
|     |      |       |         |         |      |       |        |         |      |       |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb     | lb      | °    | ft    | lb      | ft  |
| 65  |      |       |         |         |      |       |        |         |      |       |         | 65  |
| 70  |      |       |         |         |      |       |        |         |      |       |         | 70  |
| 75  |      |       |         |         |      |       |        |         |      |       |         | 75  |
| 80  |      |       |         |         |      |       |        |         |      |       |         | 80  |
| 85  |      |       |         |         |      |       |        |         |      |       |         | 85  |
| 90  |      |       |         |         |      |       |        |         |      |       |         | 90  |
| 95  |      |       |         |         |      |       |        |         |      |       |         | 95  |
| 100 |      |       |         |         |      |       |        |         |      |       |         | 100 |
| 105 |      |       |         |         |      |       |        |         |      |       |         | 105 |
| 110 |      |       |         |         |      |       |        |         |      |       |         | 110 |
| 115 |      |       |         |         |      |       |        |         |      |       |         | 115 |
| 120 |      |       |         |         |      |       |        |         |      |       |         | 120 |
| 125 | 64.2 | 345.9 | 124,800 | 225,700 |      |       |        |         |      |       |         | 125 |
| 130 | 61.4 | 343.1 | 117,800 | 214,900 |      |       |        |         |      |       |         | 130 |
| 135 | 58.4 | 339.9 | 111,300 | 204,900 |      |       |        |         |      |       |         | 135 |
| 140 | 55.4 | 336.4 | 105,300 | 195,600 |      |       |        |         |      |       |         | 140 |
| 145 | 52.2 | 332.4 | 99,600  | 187,000 |      |       |        |         |      |       |         | 145 |
| 150 | 48.8 | 328.0 | 94,400  | 179,000 |      |       |        |         |      |       |         | 150 |
| 155 | 45.3 | 322.9 | 89,400  | 171,500 | 58.5 | 333.4 | 66,700 | 154,300 |      |       |         | 155 |
| 160 | 41.5 | 317.2 | 84,700  | 164,500 | 55.5 | 329.9 | 62,800 | 147,900 |      |       |         | 160 |
| 165 | 37.4 | 310.6 | 80,200  | 157,900 | 52.3 | 325.9 | 59,200 | 141,900 |      |       |         | 165 |
| 170 | 32.8 | 302.9 | 76,000  | 151,700 | 48.9 | 321.5 | 55,800 | 136,300 |      |       |         | 170 |
| 175 | 27.5 | 293.5 | 71,900  | 145,800 | 45.4 | 316.5 | 52,500 | 131,000 |      |       |         | 175 |
| 180 | 20.8 | 281.1 | 67,800  | 140,200 | 41.6 | 310.8 | 49,400 | 125,900 |      |       |         | 180 |
| 185 | 9.7  | 259.5 | 63,500  | 134,500 | 37.5 | 304.2 | 46,400 | 121,200 | 52.0 | 317.1 | 107,500 | 185 |
| 190 |      |       |         |         | 33.0 | 296.5 | 43,500 | 116,600 | 48.6 | 312.6 | 103,400 | 190 |
| 195 |      |       |         |         | 27.7 | 287.2 | 40,700 | 112,300 | 45.1 | 307.5 | 99,500  | 195 |
| 200 |      |       |         |         | 21.0 | 274.9 | 37,800 | 108,000 | 41.3 | 301.8 | 95,800  | 200 |
| 205 |      |       |         |         | 10.3 | 254.0 | 34,700 | 103,800 | 37.1 | 295.1 | 92,300  | 205 |
| 210 |      |       |         |         |      |       |        |         | 32.5 | 287.3 | 88,900  | 210 |
| 215 |      |       |         |         |      |       |        |         | 27.1 | 277.7 | 85,600  | 215 |
| 220 |      |       |         |         |      |       |        |         | 20.3 | 265.0 | 82,300  | 220 |
| 225 |      |       |         |         |      |       |        |         | 8.3  | 241.7 | 78,900  | 225 |

# MLC650 VPC-MAX S-1

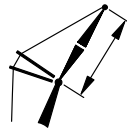
ASME B30.5



440,900 lb



242.8 ft

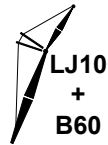


124.7 ft

|     | 85°  |       |           |           | 83°  |       |           |           | 80°  |       |         |         |     |
|-----|------|-------|-----------|-----------|------|-------|-----------|-----------|------|-------|---------|---------|-----|
|     |      |       |           |           |      |       |           |           |      |       |         |         |     |
| ft  | °    | ft    | lb        | lb        | °    | ft    | lb        | lb        | °    | ft    | lb      | lb      | ft  |
| 70  | 73.0 | 370.3 | 382,800 b | 385,300 b |      |       |           |           |      |       |         |         | 70  |
| 75  | 70.6 | 368.5 | 352,100 b | 383,500 b |      |       |           |           |      |       |         |         | 75  |
| 80  | 68.1 | 366.4 | 325,500 b | 380,500 b | 72.3 | 368.8 | 305,800 b | 387,700 b |      |       |         |         | 80  |
| 85  | 65.6 | 364.0 | 302,100 b | 376,700 b | 69.8 | 366.8 | 283,700 b | 387,500 b |      |       |         |         | 85  |
| 90  | 63.0 | 361.4 | 281,500   | 372,000   | 67.3 | 364.7 | 264,200 b | 386,000 b |      |       |         |         | 90  |
| 95  | 60.3 | 358.5 | 263,100   | 359,200   | 64.8 | 362.2 | 246,800   | 365,400   |      |       |         |         | 95  |
| 100 | 57.6 | 355.2 | 246,600   | 339,800   | 62.2 | 359.5 | 231,200   | 343,500   | 68.6 | 363.8 | 208,300 | 325,900 | 100 |
| 105 | 54.7 | 351.6 | 231,800   | 322,600   | 59.5 | 356.5 | 217,200   | 323,800   | 66.1 | 361.5 | 195,400 | 307,100 | 105 |
| 110 | 51.8 | 347.6 | 218,300   | 307,200   | 56.7 | 353.1 | 204,500   | 306,000   | 63.5 | 358.9 | 183,800 | 290,200 | 110 |
| 115 | 48.7 | 343.1 | 206,000   | 293,800   | 53.8 | 349.4 | 192,900   | 289,900   | 60.9 | 356.0 | 173,200 | 274,800 | 115 |
| 120 | 45.5 | 338.1 | 194,800   | 282,000   | 50.8 | 345.2 | 182,200   | 275,200   | 58.1 | 352.8 | 163,500 | 260,800 | 120 |
| 125 | 42.0 | 332.5 | 184,400   | 271,000   | 47.7 | 340.6 | 172,500   | 261,800   | 55.3 | 349.3 | 154,500 | 248,000 | 125 |
| 130 | 38.3 | 326.1 | 174,800   | 258,200   | 44.4 | 335.4 | 163,400   | 249,400   | 52.4 | 345.4 | 146,300 | 236,300 | 130 |
| 135 | 34.2 | 318.8 | 165,900   | 246,500   | 40.9 | 329.6 | 155,100   | 238,000   | 49.3 | 341.0 | 138,700 | 225,500 | 135 |
| 140 | 29.6 | 310.1 | 157,600   | 235,500   | 37.1 | 322.9 | 147,200   | 227,500   | 46.1 | 336.1 | 131,600 | 215,400 | 140 |
| 145 | 24.1 | 299.2 | 149,700   | 225,300   | 32.8 | 315.2 | 139,900   | 217,700   | 42.7 | 330.6 | 124,900 | 206,100 | 145 |
| 150 | 16.9 | 284.3 | 142,100   | 215,800   | 28.0 | 306.0 | 133,000   | 208,500   | 39.1 | 324.4 | 118,700 | 197,400 | 150 |
| 155 |      |       |           |           | 22.1 | 294.2 | 126,400   | 199,900   | 35.1 | 317.3 | 112,800 | 189,300 | 155 |
| 160 |      |       |           |           | 13.7 | 276.6 | 119,900   | 191,700   | 30.6 | 308.9 | 107,300 | 181,700 | 160 |
| 165 |      |       |           |           |      |       |           |           | 25.3 | 298.6 | 102,000 | 174,500 | 165 |
| 170 |      |       |           |           |      |       |           |           | 18.6 | 284.8 | 96,800  | 167,600 | 170 |
| 175 |      |       |           |           |      |       |           |           | 4.9  | 255.6 | 91,100  | 160,800 | 175 |
| 180 |      |       |           |           |      |       |           |           |      |       |         |         | 180 |
| 185 |      |       |           |           |      |       |           |           |      |       |         |         | 185 |
| 190 |      |       |           |           |      |       |           |           |      |       |         |         | 190 |
| 195 |      |       |           |           |      |       |           |           |      |       |         |         | 195 |
| 200 |      |       |           |           |      |       |           |           |      |       |         |         | 200 |
| 205 |      |       |           |           |      |       |           |           |      |       |         |         | 205 |
| 210 |      |       |           |           |      |       |           |           |      |       |         |         | 210 |
| 215 |      |       |           |           |      |       |           |           |      |       |         |         | 215 |
| 220 |      |       |           |           |      |       |           |           |      |       |         |         | 220 |
| 225 |      |       |           |           |      |       |           |           |      |       |         |         | 225 |
| 230 |      |       |           |           |      |       |           |           |      |       |         |         | 230 |

# MLC650 VPC-MAX S-1

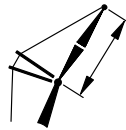
ASME B30.5



440,900 lb



242.8 ft

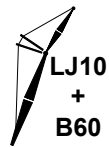


124.7 ft

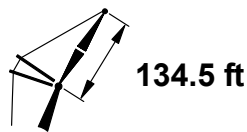
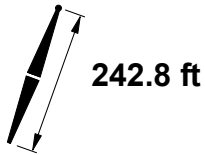
|     | 75°  |       |         |         | 70°  |       |        |         | 65°  |       |         |     |
|-----|------|-------|---------|---------|------|-------|--------|---------|------|-------|---------|-----|
|     |      |       |         |         |      |       |        |         |      |       |         |     |
|     | ft   | °     | ft      | lb      | lb   | °     | ft     | lb      | lb   | °     | ft      | lb  |
| 70  |      |       |         |         |      |       |        |         |      |       |         | 70  |
| 75  |      |       |         |         |      |       |        |         |      |       |         | 75  |
| 80  |      |       |         |         |      |       |        |         |      |       |         | 80  |
| 85  |      |       |         |         |      |       |        |         |      |       |         | 85  |
| 90  |      |       |         |         |      |       |        |         |      |       |         | 90  |
| 95  |      |       |         |         |      |       |        |         |      |       |         | 95  |
| 100 |      |       |         |         |      |       |        |         |      |       |         | 100 |
| 105 |      |       |         |         |      |       |        |         |      |       |         | 105 |
| 110 |      |       |         |         |      |       |        |         |      |       |         | 110 |
| 115 |      |       |         |         |      |       |        |         |      |       |         | 115 |
| 120 |      |       |         |         |      |       |        |         |      |       |         | 120 |
| 125 |      |       |         |         |      |       |        |         |      |       |         | 125 |
| 130 | 63.9 | 354.4 | 117,900 | 214,600 |      |       |        |         |      |       |         | 130 |
| 135 | 61.2 | 351.6 | 111,400 | 204,700 |      |       |        |         |      |       |         | 135 |
| 140 | 58.5 | 348.4 | 105,400 | 195,500 |      |       |        |         |      |       |         | 140 |
| 145 | 55.7 | 344.9 | 99,800  | 186,900 |      |       |        |         |      |       |         | 145 |
| 150 | 52.8 | 341.0 | 94,600  | 179,000 |      |       |        |         |      |       |         | 150 |
| 155 | 49.8 | 336.7 | 89,700  | 171,600 |      |       |        |         |      |       |         | 155 |
| 160 | 46.6 | 331.9 | 85,100  | 164,600 | 58.6 | 341.9 | 62,900 | 147,800 |      |       |         | 160 |
| 165 | 43.2 | 326.5 | 80,700  | 158,100 | 55.8 | 338.4 | 59,300 | 141,800 |      |       |         | 165 |
| 170 | 39.6 | 320.4 | 76,600  | 151,900 | 52.9 | 334.5 | 55,900 | 136,300 |      |       |         | 170 |
| 175 | 35.6 | 313.4 | 72,600  | 146,100 | 49.9 | 330.2 | 52,700 | 131,000 |      |       |         | 175 |
| 180 | 31.2 | 305.2 | 68,900  | 140,600 | 46.7 | 325.4 | 49,700 | 126,000 |      |       |         | 180 |
| 185 | 26.1 | 295.3 | 65,200  | 135,400 | 43.3 | 320.1 | 46,800 | 121,300 |      |       |         | 185 |
| 190 | 19.6 | 282.1 | 61,600  | 130,400 | 39.7 | 314.0 | 44,000 | 116,800 | 52.6 | 325.7 | 103,400 | 190 |
| 195 | 8.6  | 258.8 | 57,700  | 125,300 | 35.8 | 307.0 | 41,300 | 112,600 | 49.6 | 321.4 | 99,500  | 195 |
| 200 |      |       |         |         | 31.4 | 298.9 | 38,700 | 108,500 | 46.4 | 316.6 | 95,900  | 200 |
| 205 |      |       |         |         | 26.3 | 289.0 | 36,100 | 104,600 | 43.0 | 311.1 | 92,400  | 205 |
| 210 |      |       |         |         | 19.9 | 276.0 | 33,600 | 100,800 | 39.3 | 305.0 | 89,100  | 210 |
| 215 |      |       |         |         | 9.3  | 253.4 | 30,700 | 96,900  | 35.3 | 297.9 | 85,900  | 215 |
| 220 |      |       |         |         |      |       |        |         | 30.9 | 289.6 | 82,800  | 220 |
| 225 |      |       |         |         |      |       |        |         | 25.7 | 279.5 | 79,800  | 225 |
| 230 |      |       |         |         |      |       |        |         | 19.1 | 266.0 | 76,900  | 230 |

# MLC650 VPC-MAX S-1

ASME B30.5



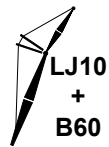
440,900 lb



|     | 85°  |       |           |           | 83°  |       |           |           | 80°  |       |         |         |     |
|-----|------|-------|-----------|-----------|------|-------|-----------|-----------|------|-------|---------|---------|-----|
|     |      |       |           |           |      |       |           |           |      |       |         |         |     |
| ft  | °    | ft    | lb        | lb        | °    | ft    | lb        | lb        | °    | ft    | lb      | lb      | ft  |
| 70  | 74.3 | 380.7 | 359,500 b | 359,500 b |      |       |           |           |      |       |         |         | 70  |
| 75  | 72.1 | 379.0 | 349,500 b | 358,800 b |      |       |           |           |      |       |         |         | 75  |
| 80  | 69.8 | 377.1 | 322,900 b | 356,800 b |      |       |           |           |      |       |         |         | 80  |
| 85  | 67.5 | 374.9 | 299,600   | 354,000   | 71.4 | 377.4 | 280,800 b | 361,300 b |      |       |         |         | 85  |
| 90  | 65.1 | 372.5 | 279,000   | 350,500   | 69.1 | 375.4 | 261,400   | 360,900   |      |       |         |         | 90  |
| 95  | 62.7 | 369.9 | 260,600   | 346,500   | 66.8 | 373.2 | 244,100   | 359,400   |      |       |         |         | 95  |
| 100 | 60.3 | 366.9 | 244,200   | 336,400   | 64.4 | 370.7 | 228,500   | 341,000   |      |       |         |         | 100 |
| 105 | 57.7 | 363.7 | 229,400   | 319,100   | 62.0 | 368.0 | 214,600   | 321,400   | 68.0 | 372.3 | 192,400 | 304,400 | 105 |
| 110 | 55.1 | 360.1 | 216,000   | 303,600   | 59.5 | 365.0 | 201,900   | 303,700   | 65.6 | 370.0 | 180,800 | 287,600 | 110 |
| 115 | 52.4 | 356.2 | 203,800   | 289,700   | 56.9 | 361.6 | 190,300   | 287,600   | 63.2 | 367.4 | 170,300 | 272,300 | 115 |
| 120 | 49.6 | 351.9 | 192,600   | 277,400   | 54.3 | 357.9 | 179,800   | 273,000   | 60.8 | 364.5 | 160,600 | 258,400 | 120 |
| 125 | 46.6 | 347.1 | 182,300   | 266,400   | 51.5 | 353.9 | 170,000   | 259,600   | 58.2 | 361.3 | 151,700 | 245,700 | 125 |
| 130 | 43.5 | 341.8 | 172,800   | 256,300   | 48.7 | 349.4 | 161,100   | 247,400   | 55.6 | 357.8 | 143,600 | 234,000 | 130 |
| 135 | 40.2 | 335.8 | 164,000   | 244,600   | 45.7 | 344.5 | 152,800   | 236,000   | 52.9 | 354.0 | 136,000 | 223,200 | 135 |
| 140 | 36.6 | 329.0 | 155,700   | 233,800   | 42.5 | 339.0 | 145,000   | 225,500   | 50.2 | 349.7 | 129,000 | 213,200 | 140 |
| 145 | 32.7 | 321.3 | 148,100   | 223,700   | 39.1 | 332.8 | 137,800   | 215,800   | 47.2 | 345.0 | 122,400 | 204,000 | 145 |
| 150 | 28.2 | 312.1 | 140,800   | 214,300   | 35.4 | 325.7 | 131,100   | 206,700   | 44.2 | 339.8 | 116,300 | 195,300 | 150 |
| 155 | 22.9 | 300.7 | 134,000   | 205,500   | 31.4 | 317.6 | 124,700   | 198,200   | 40.9 | 334.0 | 110,500 | 187,300 | 155 |
| 160 | 15.9 | 284.9 | 127,300   | 197,100   | 26.7 | 307.8 | 118,600   | 190,200   | 37.4 | 327.4 | 105,100 | 179,700 | 160 |
| 165 |      |       |           |           | 21.0 | 295.4 | 112,800   | 182,700   | 33.5 | 319.9 | 99,900  | 172,600 | 165 |
| 170 |      |       |           |           | 12.8 | 276.8 | 107,100   | 175,500   | 29.2 | 311.0 | 95,000  | 166,000 | 170 |
| 175 |      |       |           |           |      |       |           |           | 24.1 | 300.2 | 90,300  | 159,600 | 175 |
| 180 |      |       |           |           |      |       |           |           | 17.6 | 285.6 | 85,700  | 153,600 | 180 |
| 185 |      |       |           |           |      |       |           |           |      |       |         |         | 185 |
| 190 |      |       |           |           |      |       |           |           |      |       |         |         | 190 |
| 195 |      |       |           |           |      |       |           |           |      |       |         |         | 195 |
| 200 |      |       |           |           |      |       |           |           |      |       |         |         | 200 |
| 205 |      |       |           |           |      |       |           |           |      |       |         |         | 205 |
| 210 |      |       |           |           |      |       |           |           |      |       |         |         | 210 |
| 215 |      |       |           |           |      |       |           |           |      |       |         |         | 215 |
| 220 |      |       |           |           |      |       |           |           |      |       |         |         | 220 |
| 225 |      |       |           |           |      |       |           |           |      |       |         |         | 225 |
| 230 |      |       |           |           |      |       |           |           |      |       |         |         | 230 |
| 240 |      |       |           |           |      |       |           |           |      |       |         |         | 240 |

# MLC650 VPC-MAX S-1

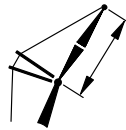
ASME B30.5



440,900 lb



242.8 ft

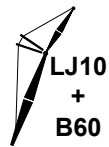


134.5 ft

|     | 75°  |       |         |         | 70°  |       |        |         | 65°  |       |        |     |
|-----|------|-------|---------|---------|------|-------|--------|---------|------|-------|--------|-----|
|     |      |       |         |         |      |       |        |         |      |       |        |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb     | lb      | °    | ft    | lb     | ft  |
| 70  |      |       |         |         |      |       |        |         |      |       |        | 70  |
| 75  |      |       |         |         |      |       |        |         |      |       |        | 75  |
| 80  |      |       |         |         |      |       |        |         |      |       |        | 80  |
| 85  |      |       |         |         |      |       |        |         |      |       |        | 85  |
| 90  |      |       |         |         |      |       |        |         |      |       |        | 90  |
| 95  |      |       |         |         |      |       |        |         |      |       |        | 95  |
| 100 |      |       |         |         |      |       |        |         |      |       |        | 100 |
| 105 |      |       |         |         |      |       |        |         |      |       |        | 105 |
| 110 |      |       |         |         |      |       |        |         |      |       |        | 110 |
| 115 |      |       |         |         |      |       |        |         |      |       |        | 115 |
| 120 |      |       |         |         |      |       |        |         |      |       |        | 120 |
| 125 |      |       |         |         |      |       |        |         |      |       |        | 125 |
| 130 |      |       |         |         |      |       |        |         |      |       |        | 130 |
| 135 | 63.5 | 362.9 | 108,200 | 202,100 |      |       |        |         |      |       |        | 135 |
| 140 | 61.1 | 360.0 | 102,300 | 192,900 |      |       |        |         |      |       |        | 140 |
| 145 | 58.6 | 356.9 | 96,700  | 184,400 |      |       |        |         |      |       |        | 145 |
| 150 | 56.0 | 353.5 | 91,600  | 176,500 |      |       |        |         |      |       |        | 150 |
| 155 | 53.3 | 349.7 | 86,700  | 169,200 |      |       |        |         |      |       |        | 155 |
| 160 | 50.5 | 345.5 | 82,200  | 162,300 |      |       |        |         |      |       |        | 160 |
| 165 | 47.6 | 340.8 | 77,900  | 155,800 | 58.7 | 350.4 | 56,000 | 139,200 |      |       |        | 165 |
| 170 | 44.6 | 335.7 | 73,800  | 149,700 | 56.1 | 346.9 | 52,700 | 133,700 |      |       |        | 170 |
| 175 | 41.3 | 330.0 | 70,000  | 144,000 | 53.4 | 343.1 | 49,500 | 128,500 |      |       |        | 175 |
| 180 | 37.9 | 323.5 | 66,300  | 138,600 | 50.6 | 339.0 | 46,600 | 123,600 |      |       |        | 180 |
| 185 | 34.1 | 316.1 | 62,800  | 133,400 | 47.7 | 334.3 | 43,700 | 118,900 |      |       |        | 185 |
| 190 | 29.8 | 307.4 | 59,400  | 128,500 | 44.7 | 329.2 | 41,000 | 114,500 |      |       |        | 190 |
| 195 | 24.8 | 296.9 | 56,100  | 123,900 | 41.4 | 323.5 | 38,400 | 110,300 | 53.1 | 334.4 | 97,000 | 195 |
| 200 | 18.6 | 283.1 | 52,900  | 119,300 | 38.0 | 317.1 | 35,900 | 106,300 | 50.3 | 330.1 | 93,400 | 200 |
| 205 | 7.6  | 257.8 | 49,300  | 114,800 | 34.2 | 309.7 | 33,500 | 102,500 | 47.4 | 325.5 | 89,900 | 205 |
| 210 |      |       |         |         | 30.0 | 301.1 | 31,200 | 98,800  | 44.4 | 320.3 | 86,700 | 210 |
| 215 |      |       |         |         | 25.0 | 290.7 | 28,900 | 95,300  | 41.1 | 314.5 | 83,500 | 215 |
| 220 |      |       |         |         | 18.8 | 277.0 | 26,500 | 91,900  | 37.6 | 308.0 | 80,500 | 220 |
| 225 |      |       |         |         | 8.2  | 252.7 | 23,900 | 88,300  | 33.8 | 300.5 | 77,600 | 225 |
| 230 |      |       |         |         |      |       |        |         | 29.5 | 291.8 | 74,800 | 230 |
| 240 |      |       |         |         |      |       |        |         | 18.1 | 266.9 | 69,400 | 240 |

# MLC650 VPC-MAX S-1

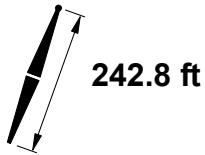
ASME B30.5



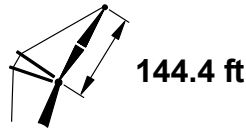
440,900 lb



360°



242.8 ft



144.4 ft

|     | 85°  |       |           |           | 83°  |       |         |         | 80°  |       |         |         |     |
|-----|------|-------|-----------|-----------|------|-------|---------|---------|------|-------|---------|---------|-----|
|     |      |       |           |           |      |       |         |         |      |       |         |         |     |
| ft  | °    | ft    | lb        | lb        | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | ft  |
| 75  | 73.4 | 389.4 | 335,500 b | 335,500 b |      |       |         |         |      |       |         |         | 75  |
| 80  | 71.3 | 387.6 | 321,000   | 334,500   |      |       |         |         |      |       |         |         | 80  |
| 85  | 69.1 | 385.6 | 297,700   | 332,500   | 72.7 | 387.9 | 278,900 | 336,800 |      |       |         |         | 85  |
| 90  | 67.0 | 383.4 | 277,200   | 329,900   | 70.6 | 386.0 | 259,400 | 336,800 |      |       |         |         | 90  |
| 95  | 64.7 | 381.0 | 258,900   | 326,800   | 68.4 | 384.0 | 242,100 | 336,600 |      |       |         |         | 95  |
| 100 | 62.5 | 378.3 | 242,500   | 322,900   | 66.3 | 381.7 | 226,700 | 335,200 |      |       |         |         | 100 |
| 105 | 60.2 | 375.4 | 227,700   | 313,600   | 64.0 | 379.2 | 212,700 | 319,500 | 69.6 | 383.0 | 190,300 | 302,500 | 105 |
| 110 | 57.8 | 372.2 | 214,300   | 300,700   | 61.8 | 376.5 | 200,100 | 301,900 | 67.4 | 380.9 | 178,800 | 285,700 | 110 |
| 115 | 55.4 | 368.7 | 202,100   | 286,600   | 59.5 | 373.4 | 188,600 | 285,900 | 65.2 | 378.5 | 168,300 | 270,500 | 115 |
| 120 | 52.9 | 364.8 | 191,000   | 274,000   | 57.1 | 370.1 | 178,000 | 271,400 | 63.0 | 375.9 | 158,700 | 256,600 | 120 |
| 125 | 50.3 | 360.6 | 180,700   | 262,600   | 54.6 | 366.5 | 168,300 | 258,000 | 60.7 | 373.0 | 149,800 | 243,900 | 125 |
| 130 | 47.6 | 356.0 | 171,300   | 252,500   | 52.1 | 362.5 | 159,400 | 245,800 | 58.3 | 369.8 | 141,700 | 232,300 | 130 |
| 135 | 44.8 | 350.9 | 162,500   | 242,700   | 49.5 | 358.2 | 151,200 | 234,500 | 55.9 | 366.4 | 134,200 | 221,500 | 135 |
| 140 | 41.8 | 345.2 | 154,400   | 232,400   | 46.7 | 353.4 | 143,500 | 224,100 | 53.4 | 362.6 | 127,200 | 211,600 | 140 |
| 145 | 38.6 | 338.9 | 146,800   | 222,400   | 43.9 | 348.2 | 136,300 | 214,400 | 50.8 | 358.4 | 120,600 | 202,400 | 145 |
| 150 | 35.1 | 331.8 | 139,700   | 213,000   | 40.8 | 342.3 | 129,700 | 205,300 | 48.2 | 353.9 | 114,600 | 193,800 | 150 |
| 155 | 31.3 | 323.6 | 133,000   | 204,300   | 37.5 | 335.8 | 123,400 | 196,900 | 45.4 | 348.9 | 108,900 | 185,800 | 155 |
| 160 | 27.0 | 314.0 | 126,700   | 196,100   | 34.0 | 328.4 | 117,400 | 189,000 | 42.4 | 343.4 | 103,500 | 178,300 | 160 |
| 165 | 21.9 | 302.1 | 120,600   | 188,400   | 30.1 | 319.8 | 111,800 | 181,600 | 39.3 | 337.2 | 98,400  | 171,300 | 165 |
| 170 | 15.0 | 285.4 | 114,700   | 181,100   | 25.5 | 309.6 | 106,500 | 174,600 | 35.9 | 330.3 | 93,600  | 164,700 | 170 |
| 175 |      |       |           |           | 20.0 | 296.6 | 101,300 | 167,900 | 32.1 | 322.4 | 89,100  | 158,400 | 175 |
| 180 |      |       |           |           | 11.9 | 276.8 | 96,200  | 161,500 | 28.0 | 313.1 | 84,700  | 152,500 | 180 |
| 185 |      |       |           |           |      |       |         |         | 23.0 | 301.7 | 80,500  | 146,900 | 185 |
| 190 |      |       |           |           |      |       |         |         | 16.6 | 286.4 | 76,400  | 141,500 | 190 |
| 195 |      |       |           |           |      |       |         |         |      |       |         |         | 195 |
| 200 |      |       |           |           |      |       |         |         |      |       |         |         | 200 |
| 205 |      |       |           |           |      |       |         |         |      |       |         |         | 205 |
| 210 |      |       |           |           |      |       |         |         |      |       |         |         | 210 |
| 215 |      |       |           |           |      |       |         |         |      |       |         |         | 215 |
| 220 |      |       |           |           |      |       |         |         |      |       |         |         | 220 |
| 225 |      |       |           |           |      |       |         |         |      |       |         |         | 225 |
| 230 |      |       |           |           |      |       |         |         |      |       |         |         | 230 |
| 240 |      |       |           |           |      |       |         |         |      |       |         |         | 240 |
| 250 |      |       |           |           |      |       |         |         |      |       |         |         | 250 |

# MLC650 VPC-MAX S-1

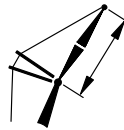
ASME B30.5



440,900 lb



242.8 ft

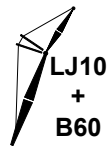


144.4 ft

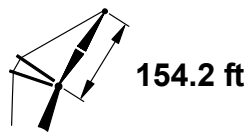
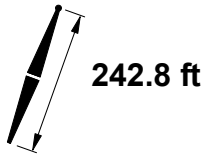
|     | 75°  |       |         |         | 70°  |       |        |         | 65°  |       |        |     |
|-----|------|-------|---------|---------|------|-------|--------|---------|------|-------|--------|-----|
|     |      |       |         |         |      |       |        |         |      |       |        |     |
|     | ft   | °     | ft      | lb      | lb   | ft    | lb     | lb      | °    | ft    | lb     | ft  |
| 75  |      |       |         |         |      |       |        |         |      |       |        | 75  |
| 80  |      |       |         |         |      |       |        |         |      |       |        | 80  |
| 85  |      |       |         |         |      |       |        |         |      |       |        | 85  |
| 90  |      |       |         |         |      |       |        |         |      |       |        | 90  |
| 95  |      |       |         |         |      |       |        |         |      |       |        | 95  |
| 100 |      |       |         |         |      |       |        |         |      |       |        | 100 |
| 105 |      |       |         |         |      |       |        |         |      |       |        | 105 |
| 110 |      |       |         |         |      |       |        |         |      |       |        | 110 |
| 115 |      |       |         |         |      |       |        |         |      |       |        | 115 |
| 120 |      |       |         |         |      |       |        |         |      |       |        | 120 |
| 125 |      |       |         |         |      |       |        |         |      |       |        | 125 |
| 130 |      |       |         |         |      |       |        |         |      |       |        | 130 |
| 135 |      |       |         |         |      |       |        |         |      |       |        | 135 |
| 140 | 63.3 | 371.4 | 100,100 | 191,100 |      |       |        |         |      |       |        | 140 |
| 145 | 61.0 | 368.5 | 94,700  | 182,700 |      |       |        |         |      |       |        | 145 |
| 150 | 58.6 | 365.4 | 89,500  | 174,800 |      |       |        |         |      |       |        | 150 |
| 155 | 56.2 | 362.0 | 84,700  | 167,500 |      |       |        |         |      |       |        | 155 |
| 160 | 53.8 | 358.2 | 80,200  | 160,700 |      |       |        |         |      |       |        | 160 |
| 165 | 51.2 | 354.1 | 76,000  | 154,200 |      |       |        |         |      |       |        | 165 |
| 170 | 48.5 | 349.7 | 72,000  | 148,200 | 58.7 | 358.8 | 50,500 | 132,000 |      |       |        | 170 |
| 175 | 45.7 | 344.7 | 68,200  | 142,500 | 56.3 | 355.4 | 47,400 | 126,800 |      |       |        | 175 |
| 180 | 42.8 | 339.3 | 64,600  | 137,100 | 53.8 | 351.7 | 44,500 | 121,900 |      |       |        | 180 |
| 185 | 39.7 | 333.2 | 61,200  | 132,000 | 51.3 | 347.6 | 41,700 | 117,300 |      |       |        | 185 |
| 190 | 36.3 | 326.4 | 57,900  | 127,200 | 48.6 | 343.2 | 39,000 | 112,900 |      |       |        | 190 |
| 195 | 32.7 | 318.6 | 54,700  | 122,600 | 45.8 | 338.2 | 36,500 | 108,800 |      |       |        | 195 |
| 200 | 28.5 | 309.5 | 51,700  | 118,200 | 42.9 | 332.8 | 34,100 | 104,800 | 53.6 | 342.9 | 91,700 | 200 |
| 205 | 23.7 | 298.5 | 48,700  | 114,000 | 39.8 | 326.8 | 31,700 | 101,100 | 51.0 | 338.8 | 88,300 | 205 |
| 210 | 17.6 | 283.9 | 45,800  | 109,900 | 36.4 | 320.0 | 29,500 | 97,500  | 48.3 | 334.3 | 85,000 | 210 |
| 215 | 6.5  | 256.4 | 42,400  | 105,800 | 32.8 | 312.2 | 27,300 | 94,000  | 45.6 | 329.4 | 82,000 | 215 |
| 220 |      |       |         |         | 28.7 | 303.2 | 25,200 | 90,700  | 42.6 | 323.9 | 79,000 | 220 |
| 225 |      |       |         |         | 23.9 | 292.2 | 23,100 | 87,500  | 39.5 | 317.7 | 76,200 | 225 |
| 230 |      |       |         |         | 17.9 | 277.8 | 20,900 | 84,300  | 36.1 | 310.9 | 73,400 | 230 |
| 240 |      |       |         |         |      |       |        |         | 28.3 | 293.8 | 68,200 | 240 |
| 250 |      |       |         |         |      |       |        |         | 17.1 | 267.7 | 63,300 | 250 |

# MLC650 VPC-MAX S-1

ASME B30.5



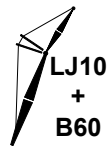
440,900 lb



|     | 85°  |       |           |           | 83°  |       |         |         | 80°  |       |         |         |     |
|-----|------|-------|-----------|-----------|------|-------|---------|---------|------|-------|---------|---------|-----|
|     |      |       |           |           |      |       |         |         |      |       |         |         |     |
| ft  | °    | ft    | lb        | lb        | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | ft  |
| 75  | 74.5 | 399.7 | 313,400 b | 313,400 b |      |       |         |         |      |       |         |         | 75  |
| 80  | 72.5 | 398.1 | 313,100   | 313,100   |      |       |         |         |      |       |         |         | 80  |
| 85  | 70.5 | 396.2 | 295,200   | 311,900   |      |       |         |         |      |       |         |         | 85  |
| 90  | 68.5 | 394.2 | 274,600   | 310,000   | 71.9 | 396.5 | 256,600 | 314,500 |      |       |         |         | 90  |
| 95  | 66.5 | 392.0 | 256,400   | 307,700   | 69.9 | 394.6 | 239,400 | 314,500 |      |       |         |         | 95  |
| 100 | 64.4 | 389.5 | 240,000   | 304,400   | 67.9 | 392.5 | 223,900 | 314,000 |      |       |         |         | 100 |
| 105 | 62.3 | 386.8 | 225,300   | 301,400   | 65.8 | 390.2 | 210,000 | 312,700 |      |       |         |         | 105 |
| 110 | 60.2 | 383.9 | 211,900   | 290,500   | 63.8 | 387.7 | 197,400 | 299,500 | 68.9 | 391.6 | 175,800 | 283,100 | 110 |
| 115 | 57.9 | 380.7 | 199,800   | 279,000   | 61.6 | 384.9 | 185,900 | 283,600 | 66.9 | 389.4 | 165,300 | 267,900 | 115 |
| 120 | 55.7 | 377.2 | 188,700   | 267,700   | 59.5 | 381.9 | 175,500 | 269,100 | 64.8 | 387.0 | 155,700 | 254,100 | 120 |
| 125 | 53.4 | 373.4 | 178,500   | 256,700   | 57.2 | 378.6 | 165,800 | 255,800 | 62.7 | 384.3 | 147,000 | 241,500 | 125 |
| 130 | 50.9 | 369.3 | 169,000   | 246,100   | 55.0 | 375.1 | 156,900 | 243,600 | 60.6 | 381.5 | 138,900 | 229,900 | 130 |
| 135 | 48.4 | 364.8 | 160,300   | 236,000   | 52.6 | 371.2 | 148,700 | 232,400 | 58.4 | 378.3 | 131,400 | 219,200 | 135 |
| 140 | 45.8 | 359.9 | 152,200   | 226,400   | 50.2 | 366.9 | 141,100 | 222,000 | 56.1 | 374.9 | 124,400 | 209,400 | 140 |
| 145 | 43.1 | 354.5 | 144,700   | 217,400   | 47.6 | 362.3 | 134,000 | 212,400 | 53.8 | 371.2 | 118,000 | 200,200 | 145 |
| 150 | 40.2 | 348.5 | 137,700   | 209,200   | 45.0 | 357.3 | 127,400 | 203,400 | 51.4 | 367.1 | 111,900 | 191,700 | 150 |
| 155 | 37.1 | 341.9 | 131,000   | 201,700   | 42.2 | 351.7 | 121,100 | 195,000 | 49.0 | 362.7 | 106,300 | 183,700 | 155 |
| 160 | 33.8 | 334.5 | 124,800   | 194,400   | 39.3 | 345.5 | 115,300 | 187,200 | 46.4 | 357.9 | 101,000 | 176,200 | 160 |
| 165 | 30.1 | 325.9 | 118,900   | 186,800   | 36.1 | 338.7 | 109,800 | 179,800 | 43.7 | 352.6 | 96,000  | 169,300 | 165 |
| 170 | 25.9 | 315.8 | 113,300   | 179,600   | 32.7 | 330.9 | 104,500 | 172,900 | 40.8 | 346.7 | 91,200  | 162,700 | 170 |
| 175 | 20.9 | 303.3 | 108,000   | 172,800   | 28.9 | 321.9 | 99,600  | 166,300 | 37.8 | 340.3 | 86,800  | 156,500 | 175 |
| 180 | 14.2 | 285.8 | 102,700   | 166,300   | 24.5 | 311.2 | 94,800  | 160,100 | 34.5 | 333.0 | 82,500  | 150,600 | 180 |
| 185 |      |       |           |           | 19.1 | 297.6 | 90,200  | 154,200 | 30.9 | 324.7 | 78,400  | 145,100 | 185 |
| 190 |      |       |           |           | 11.1 | 276.7 | 85,500  | 148,500 | 26.8 | 315.0 | 74,500  | 139,800 | 190 |
| 195 |      |       |           |           |      |       |         |         | 22.0 | 303.1 | 70,800  | 134,800 | 195 |
| 200 |      |       |           |           |      |       |         |         | 15.8 | 287.0 | 67,000  | 129,900 | 200 |
| 205 |      |       |           |           |      |       |         |         |      |       |         |         | 205 |
| 210 |      |       |           |           |      |       |         |         |      |       |         |         | 210 |
| 215 |      |       |           |           |      |       |         |         |      |       |         |         | 215 |
| 220 |      |       |           |           |      |       |         |         |      |       |         |         | 220 |
| 225 |      |       |           |           |      |       |         |         |      |       |         |         | 225 |
| 230 |      |       |           |           |      |       |         |         |      |       |         |         | 230 |
| 240 |      |       |           |           |      |       |         |         |      |       |         |         | 240 |
| 250 |      |       |           |           |      |       |         |         |      |       |         |         | 250 |
| 260 |      |       |           |           |      |       |         |         |      |       |         |         | 260 |

# MLC650 VPC-MAX S-1

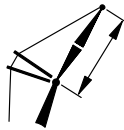
ASME B30.5



440,900 lb



242.8 ft

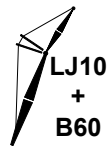


154.2 ft

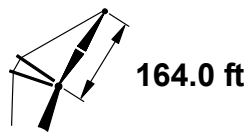
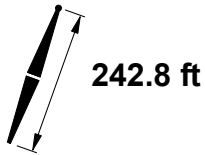
|     | 75°  |       |        |         | 70°  |       |        |         | 65°  |       |        |     |
|-----|------|-------|--------|---------|------|-------|--------|---------|------|-------|--------|-----|
|     | ft   | °     | ft     | lb      | ft   | °     | ft     | lb      | ft   | °     | ft     | lb  |
| 75  |      |       |        |         |      |       |        |         |      |       |        |     |
| 80  |      |       |        |         |      |       |        |         |      |       |        |     |
| 85  |      |       |        |         |      |       |        |         |      |       |        |     |
| 90  |      |       |        |         |      |       |        |         |      |       |        |     |
| 95  |      |       |        |         |      |       |        |         |      |       |        |     |
| 100 |      |       |        |         |      |       |        |         |      |       |        |     |
| 105 |      |       |        |         |      |       |        |         |      |       |        |     |
| 110 |      |       |        |         |      |       |        |         |      |       |        |     |
| 115 |      |       |        |         |      |       |        |         |      |       |        |     |
| 120 |      |       |        |         |      |       |        |         |      |       |        |     |
| 125 |      |       |        |         |      |       |        |         |      |       |        |     |
| 130 |      |       |        |         |      |       |        |         |      |       |        |     |
| 135 |      |       |        |         |      |       |        |         |      |       |        |     |
| 140 |      |       |        |         |      |       |        |         |      |       |        |     |
| 145 | 63.0 | 379.8 | 91,500 | 180,200 |      |       |        |         |      |       |        |     |
| 150 | 60.9 | 377.0 | 86,400 | 172,400 |      |       |        |         |      |       |        |     |
| 155 | 58.7 | 373.9 | 81,700 | 165,100 |      |       |        |         |      |       |        |     |
| 160 | 56.4 | 370.5 | 77,200 | 158,300 |      |       |        |         |      |       |        |     |
| 165 | 54.1 | 366.8 | 73,000 | 151,900 |      |       |        |         |      |       |        |     |
| 170 | 51.8 | 362.8 | 69,100 | 145,900 |      |       |        |         |      |       |        |     |
| 175 | 49.3 | 358.4 | 65,300 | 140,200 | 58.8 | 367.3 | 44,200 | 124,300 |      |       |        |     |
| 180 | 46.7 | 353.7 | 61,800 | 134,900 | 56.5 | 364.0 | 41,300 | 119,400 |      |       |        |     |
| 185 | 44.0 | 348.4 | 58,400 | 129,900 | 54.2 | 360.3 | 38,500 | 114,800 |      |       |        |     |
| 190 | 41.2 | 342.7 | 55,200 | 125,100 | 51.8 | 356.3 | 35,900 | 110,500 |      |       |        |     |
| 195 | 38.2 | 336.3 | 52,200 | 120,500 | 49.4 | 351.9 | 33,500 | 106,400 |      |       |        |     |
| 200 | 35.0 | 329.1 | 49,200 | 116,200 | 46.8 | 347.2 | 31,100 | 102,500 |      |       |        |     |
| 205 | 31.4 | 321.0 | 46,400 | 112,100 | 44.1 | 342.0 | 28,800 | 98,800  | 54.0 | 351.5 | 85,700 | 205 |
| 210 | 27.4 | 311.5 | 43,600 | 108,100 | 41.3 | 336.2 | 26,600 | 95,200  | 51.6 | 347.5 | 82,500 | 210 |
| 215 | 22.7 | 300.0 | 40,900 | 104,300 | 38.3 | 329.9 | 24,500 | 91,800  | 49.1 | 343.1 | 79,500 | 215 |
| 220 | 16.8 | 284.7 | 38,200 | 100,600 | 35.1 | 322.7 | 22,500 | 88,600  | 46.6 | 338.3 | 76,600 | 220 |
| 225 | 5.4  | 254.6 | 35,100 | 96,800  | 31.5 | 314.6 | 20,500 | 85,500  | 43.9 | 333.1 | 73,800 | 225 |
| 230 |      |       |        |         | 27.6 | 305.2 |        | 82,400  | 41.0 | 327.3 | 71,100 | 230 |
| 240 |      |       |        |         | 17.0 | 278.6 |        | 76,600  | 34.7 | 313.6 | 66,000 | 240 |
| 250 |      |       |        |         |      |       |        |         | 27.1 | 295.8 | 61,300 | 250 |
| 260 |      |       |        |         |      |       |        |         | 16.3 | 268.4 | 56,700 | 260 |

# MLC650 VPC-MAX S-1

ASME B30.5



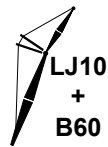
440,900 lb



|     | 85°  |       |         |         | 83°  |       |         |         | 80°  |       |         |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|---------|---------|-----|
|     |      |       |         |         |      |       |         |         |      |       |         |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | ft  |
| 80  | 73.6 | 408.5 | 293,100 | 293,100 |      |       |         |         |      |       |         |         | 80  |
| 85  | 71.7 | 406.7 | 292,500 | 292,500 |      |       |         |         |      |       |         |         | 85  |
| 90  | 69.9 | 404.9 | 274,000 | 291,300 |      |       |         |         |      |       |         |         | 90  |
| 95  | 68.0 | 402.8 | 255,800 | 289,600 | 71.2 | 405.2 | 238,600 | 294,000 |      |       |         |         | 95  |
| 100 | 66.1 | 400.5 | 239,400 | 287,200 | 69.3 | 403.2 | 223,200 | 293,900 |      |       |         |         | 100 |
| 105 | 64.1 | 398.0 | 224,700 | 284,500 | 67.4 | 401.1 | 209,300 | 293,300 |      |       |         |         | 105 |
| 110 | 62.1 | 395.3 | 211,400 | 280,300 | 65.5 | 398.7 | 196,700 | 292,100 |      |       |         |         | 110 |
| 115 | 60.1 | 392.4 | 199,200 | 270,000 | 63.5 | 396.2 | 185,300 | 282,700 | 68.4 | 400.2 | 164,400 | 266,900 | 115 |
| 120 | 58.0 | 389.2 | 188,200 | 259,700 | 61.5 | 393.4 | 174,800 | 268,300 | 66.5 | 397.9 | 154,900 | 253,200 | 120 |
| 125 | 55.9 | 385.7 | 178,000 | 249,500 | 59.5 | 390.4 | 165,200 | 255,100 | 64.5 | 395.5 | 146,100 | 240,600 | 125 |
| 130 | 53.7 | 382.0 | 168,600 | 239,500 | 57.4 | 387.1 | 156,300 | 242,900 | 62.5 | 392.8 | 138,100 | 229,100 | 130 |
| 135 | 51.5 | 378.0 | 159,900 | 229,900 | 55.2 | 383.6 | 148,200 | 231,700 | 60.5 | 389.9 | 130,600 | 218,400 | 135 |
| 140 | 49.2 | 373.6 | 151,800 | 220,600 | 53.0 | 379.8 | 140,600 | 221,300 | 58.5 | 386.8 | 123,700 | 208,600 | 140 |
| 145 | 46.8 | 368.8 | 144,300 | 211,800 | 50.8 | 375.6 | 133,500 | 211,700 | 56.4 | 383.4 | 117,300 | 199,400 | 145 |
| 150 | 44.3 | 363.6 | 137,300 | 203,500 | 48.4 | 371.1 | 126,900 | 202,800 | 54.2 | 379.7 | 111,300 | 190,900 | 150 |
| 155 | 41.6 | 358.0 | 130,800 | 195,800 | 46.0 | 366.3 | 120,700 | 194,400 | 52.0 | 375.8 | 105,600 | 183,000 | 155 |
| 160 | 38.8 | 351.7 | 124,600 | 188,700 | 43.4 | 360.9 | 114,900 | 186,600 | 49.7 | 371.5 | 100,400 | 175,600 | 160 |
| 165 | 35.8 | 344.8 | 118,800 | 182,300 | 40.8 | 355.1 | 109,400 | 179,300 | 47.3 | 366.8 | 95,400  | 168,600 | 165 |
| 170 | 32.6 | 337.0 | 113,300 | 176,700 | 37.9 | 348.6 | 104,300 | 172,400 | 44.8 | 361.7 | 90,700  | 162,100 | 170 |
| 175 | 29.0 | 328.0 | 108,100 | 171,900 | 34.8 | 341.4 | 99,400  | 165,900 | 42.2 | 356.1 | 86,300  | 156,000 | 175 |
| 180 | 25.0 | 317.5 | 103,100 | 166,200 | 31.5 | 333.3 | 94,800  | 159,800 | 39.4 | 350.0 | 82,100  | 150,200 | 180 |
| 185 | 20.1 | 304.5 | 98,300  | 160,200 | 27.8 | 324.0 | 90,300  | 154,000 | 36.5 | 343.2 | 78,100  | 144,700 | 185 |
| 190 | 13.4 | 286.1 | 93,500  | 154,300 | 23.5 | 312.8 | 86,000  | 148,500 | 33.3 | 335.6 | 74,300  | 139,400 | 190 |
| 195 |      |       |         |         | 18.3 | 298.6 | 81,900  | 143,200 | 29.8 | 326.9 | 70,700  | 134,500 | 195 |
| 200 |      |       |         |         | 10.4 | 276.5 | 77,700  | 138,000 | 25.8 | 316.8 | 67,100  | 129,800 | 200 |
| 205 |      |       |         |         |      |       |         |         | 21.2 | 304.4 | 63,700  | 125,200 | 205 |
| 210 |      |       |         |         |      |       |         |         | 15.0 | 287.5 | 60,300  | 120,800 | 210 |
| 215 |      |       |         |         |      |       |         |         |      |       |         |         | 215 |
| 220 |      |       |         |         |      |       |         |         |      |       |         |         | 220 |
| 225 |      |       |         |         |      |       |         |         |      |       |         |         | 225 |
| 230 |      |       |         |         |      |       |         |         |      |       |         |         | 230 |
| 240 |      |       |         |         |      |       |         |         |      |       |         |         | 240 |
| 250 |      |       |         |         |      |       |         |         |      |       |         |         | 250 |
| 260 |      |       |         |         |      |       |         |         |      |       |         |         | 260 |
| 270 |      |       |         |         |      |       |         |         |      |       |         |         | 270 |

# MLC650 VPC-MAX S-1

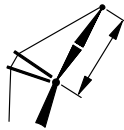
ASME B30.5



440,900 lb



242.8 ft

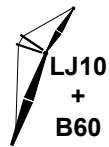


164.0 ft

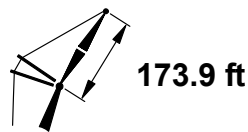
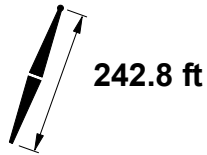
|     | 75°  |       |        |         | 70°  |       |        |         | 65°  |       |        |     |
|-----|------|-------|--------|---------|------|-------|--------|---------|------|-------|--------|-----|
|     | ft   | °     | ft     | lb      | ft   | °     | ft     | lb      | ft   | °     | ft     | lb  |
| 80  |      |       |        |         |      |       |        |         |      |       |        | 80  |
| 85  |      |       |        |         |      |       |        |         |      |       |        | 85  |
| 90  |      |       |        |         |      |       |        |         |      |       |        | 90  |
| 95  |      |       |        |         |      |       |        |         |      |       |        | 95  |
| 100 |      |       |        |         |      |       |        |         |      |       |        | 100 |
| 105 |      |       |        |         |      |       |        |         |      |       |        | 105 |
| 110 |      |       |        |         |      |       |        |         |      |       |        | 110 |
| 115 |      |       |        |         |      |       |        |         |      |       |        | 115 |
| 120 |      |       |        |         |      |       |        |         |      |       |        | 120 |
| 125 |      |       |        |         |      |       |        |         |      |       |        | 125 |
| 130 |      |       |        |         |      |       |        |         |      |       |        | 130 |
| 135 |      |       |        |         |      |       |        |         |      |       |        | 135 |
| 140 |      |       |        |         |      |       |        |         |      |       |        | 140 |
| 145 | 64.8 | 390.9 | 90,500 | 179,200 |      |       |        |         |      |       |        | 145 |
| 150 | 62.8 | 388.3 | 85,500 | 171,500 |      |       |        |         |      |       |        | 150 |
| 155 | 60.8 | 385.5 | 80,800 | 164,200 |      |       |        |         |      |       |        | 155 |
| 160 | 58.7 | 382.4 | 76,300 | 157,400 |      |       |        |         |      |       |        | 160 |
| 165 | 56.6 | 379.0 | 72,200 | 151,100 |      |       |        |         |      |       |        | 165 |
| 170 | 54.5 | 375.4 | 68,300 | 145,100 |      |       |        |         |      |       |        | 170 |
| 175 | 52.3 | 371.4 | 64,600 | 139,500 |      |       |        |         |      |       |        | 175 |
| 180 | 50.0 | 367.2 | 61,000 | 134,200 | 58.8 | 375.8 | 40,300 | 118,600 |      |       |        | 180 |
| 185 | 47.6 | 362.6 | 57,700 | 129,200 | 56.7 | 372.5 | 37,600 | 114,000 |      |       |        | 185 |
| 190 | 45.1 | 357.5 | 54,600 | 124,400 | 54.5 | 368.8 | 35,000 | 109,700 |      |       |        | 190 |
| 195 | 42.5 | 352.0 | 51,500 | 119,900 | 52.3 | 364.9 | 32,600 | 105,600 |      |       |        | 195 |
| 200 | 39.8 | 346.0 | 48,700 | 115,700 | 50.0 | 360.7 | 30,200 | 101,800 |      |       |        | 200 |
| 205 | 36.9 | 339.3 | 45,900 | 111,600 | 47.7 | 356.1 | 28,000 | 98,100  |      |       |        | 205 |
| 210 | 33.7 | 331.8 | 43,200 | 107,700 | 45.2 | 351.0 | 25,900 | 94,500  | 54.3 | 360.1 | 81,700 | 210 |
| 215 | 30.3 | 323.3 | 40,700 | 104,000 | 42.6 | 345.5 | 23,800 | 91,200  | 52.1 | 356.1 | 78,700 | 215 |
| 220 | 26.4 | 313.4 | 38,200 | 100,400 | 39.9 | 339.5 | 21,800 | 88,000  | 49.8 | 351.8 | 75,800 | 220 |
| 225 | 21.8 | 301.3 | 35,700 | 96,900  | 37.0 | 332.9 |        | 84,900  | 47.4 | 347.2 | 73,000 | 225 |
| 230 | 16.0 | 285.3 | 33,200 | 93,600  | 33.8 | 325.4 |        | 81,900  | 44.9 | 342.1 | 70,400 | 230 |
| 240 |      |       |        |         | 26.5 | 307.1 |        | 76,300  | 39.6 | 330.5 | 65,400 | 240 |
| 250 |      |       |        |         | 16.2 | 279.3 |        | 71,000  | 33.5 | 316.2 | 60,800 | 250 |
| 260 |      |       |        |         |      |       |        |         | 26.1 | 297.6 | 56,400 | 260 |
| 270 |      |       |        |         |      |       |        |         | 15.5 | 269.0 | 52,200 | 270 |

# MLC650 VPC-MAX S-1

ASME B30.5



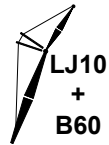
440,900 lb



|     | 85°  |       |         |         | 83°  |       |         |         | 80°  |       |         |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|---------|---------|-----|
|     |      |       |         |         |      |       |         |         |      |       |         |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | ft  |
| 80  | 74.6 | 418.8 | 272,900 | 272,900 |      |       |         |         |      |       |         |         | 80  |
| 85  | 72.8 | 417.2 | 272,900 | 272,900 |      |       |         |         |      |       |         |         | 85  |
| 90  | 71.1 | 415.4 | 271,400 | 272,200 |      |       |         |         |      |       |         |         | 90  |
| 95  | 69.3 | 413.4 | 253,200 | 271,100 | 72.3 | 415.6 | 235,800 | 273,300 |      |       |         |         | 95  |
| 100 | 67.5 | 411.3 | 236,900 | 269,600 | 70.5 | 413.8 | 220,400 | 273,300 |      |       |         |         | 100 |
| 105 | 65.7 | 409.0 | 222,200 | 267,700 | 68.7 | 411.8 | 206,600 | 273,300 |      |       |         |         | 105 |
| 110 | 63.9 | 406.5 | 208,900 | 265,200 | 67.0 | 409.6 | 194,000 | 273,000 |      |       |         |         | 110 |
| 115 | 62.0 | 403.8 | 196,800 | 260,700 | 65.1 | 407.2 | 182,600 | 272,000 | 69.7 | 410.8 | 161,500 | 264,400 | 115 |
| 120 | 60.1 | 400.8 | 185,800 | 251,500 | 63.3 | 404.7 | 172,200 | 266,000 | 67.9 | 408.7 | 152,000 | 250,700 | 120 |
| 125 | 58.1 | 397.7 | 175,600 | 242,300 | 61.4 | 401.9 | 162,600 | 252,800 | 66.1 | 406.4 | 143,300 | 238,200 | 125 |
| 130 | 56.1 | 394.3 | 166,300 | 233,100 | 59.5 | 398.9 | 153,800 | 240,700 | 64.2 | 404.0 | 135,200 | 226,700 | 130 |
| 135 | 54.1 | 390.6 | 157,600 | 224,100 | 57.5 | 395.6 | 145,600 | 229,600 | 62.4 | 401.3 | 127,800 | 216,100 | 135 |
| 140 | 52.0 | 386.6 | 149,600 | 215,400 | 55.5 | 392.1 | 138,100 | 219,300 | 60.5 | 398.4 | 120,900 | 206,300 | 140 |
| 145 | 49.8 | 382.3 | 142,100 | 207,000 | 53.4 | 388.4 | 131,000 | 209,700 | 58.5 | 395.3 | 114,500 | 197,200 | 145 |
| 150 | 47.6 | 377.7 | 135,100 | 199,000 | 51.3 | 384.3 | 124,500 | 200,800 | 56.5 | 391.9 | 108,600 | 188,700 | 150 |
| 155 | 45.2 | 372.7 | 128,600 | 191,400 | 49.1 | 379.9 | 118,300 | 192,500 | 54.5 | 388.3 | 103,000 | 180,900 | 155 |
| 160 | 42.8 | 367.2 | 122,500 | 184,200 | 46.8 | 375.2 | 112,600 | 184,700 | 52.4 | 384.4 | 97,700  | 173,500 | 160 |
| 165 | 40.2 | 361.3 | 116,700 | 177,600 | 44.5 | 370.0 | 107,100 | 177,400 | 50.3 | 380.2 | 92,800  | 166,600 | 165 |
| 170 | 37.5 | 354.8 | 111,300 | 171,500 | 42.0 | 364.4 | 102,000 | 170,500 | 48.0 | 375.6 | 88,200  | 160,100 | 170 |
| 175 | 34.6 | 347.5 | 106,100 | 166,000 | 39.4 | 358.3 | 97,200  | 164,100 | 45.7 | 370.7 | 83,800  | 153,900 | 175 |
| 180 | 31.5 | 339.4 | 101,200 | 161,100 | 36.6 | 351.6 | 92,600  | 158,000 | 43.3 | 365.3 | 79,600  | 148,200 | 180 |
| 185 | 28.0 | 330.1 | 96,600  | 157,100 | 33.7 | 344.1 | 88,300  | 152,200 | 40.8 | 359.5 | 75,700  | 142,700 | 185 |
| 190 | 24.0 | 319.2 | 92,100  | 152,900 | 30.4 | 335.6 | 84,100  | 146,800 | 38.1 | 353.1 | 72,000  | 137,500 | 190 |
| 195 | 19.3 | 305.6 | 87,800  | 147,500 | 26.8 | 325.9 | 80,100  | 141,600 | 35.2 | 346.0 | 68,400  | 132,600 | 195 |
| 200 | 12.7 | 286.3 | 83,500  | 142,300 | 22.7 | 314.3 | 76,300  | 136,600 | 32.1 | 338.1 | 65,000  | 127,900 | 200 |
| 205 |      |       |         |         | 17.5 | 299.4 | 72,500  | 131,800 | 28.7 | 329.0 | 61,700  | 123,500 | 205 |
| 210 |      |       |         |         | 9.7  | 276.1 | 68,600  | 127,200 | 24.9 | 318.5 | 58,500  | 119,200 | 210 |
| 215 |      |       |         |         |      |       |         |         | 20.3 | 305.6 | 55,400  | 115,100 | 215 |
| 220 |      |       |         |         |      |       |         |         | 14.3 | 288.0 | 52,200  | 111,100 | 220 |
| 225 |      |       |         |         |      |       |         |         |      |       |         |         | 225 |
| 230 |      |       |         |         |      |       |         |         |      |       |         |         | 230 |
| 240 |      |       |         |         |      |       |         |         |      |       |         |         | 240 |
| 250 |      |       |         |         |      |       |         |         |      |       |         |         | 250 |
| 260 |      |       |         |         |      |       |         |         |      |       |         |         | 260 |
| 270 |      |       |         |         |      |       |         |         |      |       |         |         | 270 |
| 280 |      |       |         |         |      |       |         |         |      |       |         |         | 280 |

# MLC650 VPC-MAX S-1

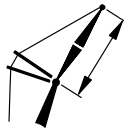
ASME B30.5



440,900 lb



242.8 ft

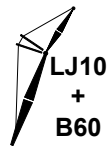


173.9 ft

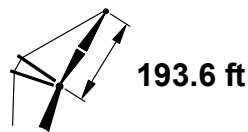
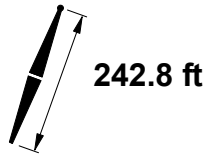
|     | 75°  |       |        |         | 70°  |       |        |         | 65°  |       |        |     |
|-----|------|-------|--------|---------|------|-------|--------|---------|------|-------|--------|-----|
|     | ft   | °     | ft     | lb      | lb   | °     | ft     | lb      | lb   | °     | ft     | lb  |
| 80  |      |       |        |         |      |       |        |         |      |       |        | 80  |
| 85  |      |       |        |         |      |       |        |         |      |       |        | 85  |
| 90  |      |       |        |         |      |       |        |         |      |       |        | 90  |
| 95  |      |       |        |         |      |       |        |         |      |       |        | 95  |
| 100 |      |       |        |         |      |       |        |         |      |       |        | 100 |
| 105 |      |       |        |         |      |       |        |         |      |       |        | 105 |
| 110 |      |       |        |         |      |       |        |         |      |       |        | 110 |
| 115 |      |       |        |         |      |       |        |         |      |       |        | 115 |
| 120 |      |       |        |         |      |       |        |         |      |       |        | 120 |
| 125 |      |       |        |         |      |       |        |         |      |       |        | 125 |
| 130 |      |       |        |         |      |       |        |         |      |       |        | 130 |
| 135 |      |       |        |         |      |       |        |         |      |       |        | 135 |
| 140 |      |       |        |         |      |       |        |         |      |       |        | 140 |
| 145 |      |       |        |         |      |       |        |         |      |       |        | 145 |
| 150 | 64.5 | 399.4 | 82,300 | 169,000 |      |       |        |         |      |       |        | 150 |
| 155 | 62.6 | 396.8 | 77,700 | 161,800 |      |       |        |         |      |       |        | 155 |
| 160 | 60.7 | 393.9 | 73,300 | 155,000 |      |       |        |         |      |       |        | 160 |
| 165 | 58.8 | 390.8 | 69,200 | 148,700 |      |       |        |         |      |       |        | 165 |
| 170 | 56.8 | 387.5 | 65,300 | 142,800 |      |       |        |         |      |       |        | 170 |
| 175 | 54.8 | 383.9 | 61,600 | 137,200 |      |       |        |         |      |       |        | 175 |
| 180 | 52.7 | 380.1 | 58,200 | 131,900 |      |       |        |         |      |       |        | 180 |
| 185 | 50.5 | 375.9 | 54,900 | 127,000 | 58.8 | 384.3 | 34,400 | 111,500 |      |       |        | 185 |
| 190 | 48.3 | 371.4 | 51,800 | 122,200 | 56.9 | 381.0 | 31,800 | 107,300 |      |       |        | 190 |
| 195 | 46.0 | 366.5 | 48,800 | 117,800 | 54.8 | 377.4 | 29,400 | 103,200 |      |       |        | 195 |
| 200 | 43.6 | 361.2 | 45,900 | 113,500 | 52.8 | 373.5 | 27,100 | 99,400  |      |       |        | 200 |
| 205 | 41.1 | 355.4 | 43,200 | 109,500 | 50.6 | 369.4 | 24,900 | 95,700  |      |       |        | 205 |
| 210 | 38.5 | 349.1 | 40,600 | 105,600 | 48.4 | 364.9 | 22,900 | 92,200  |      |       |        | 210 |
| 215 | 35.6 | 342.1 | 38,100 | 102,000 | 46.1 | 360.0 | 20,800 | 88,900  | 54.6 | 368.6 | 76,200 | 215 |
| 220 | 32.6 | 334.3 | 35,700 | 98,400  | 43.7 | 354.7 |        | 85,700  | 52.6 | 364.8 | 73,300 | 220 |
| 225 | 29.2 | 325.4 | 33,400 | 95,100  | 41.2 | 349.0 |        | 82,700  | 50.4 | 360.6 | 70,600 | 225 |
| 230 | 25.4 | 315.1 | 31,100 | 91,800  | 38.5 | 342.7 |        | 79,800  | 48.2 | 356.0 | 68,000 | 230 |
| 240 | 15.3 | 285.9 | 26,600 | 85,600  | 32.7 | 327.9 |        | 74,300  | 43.5 | 345.8 | 63,100 | 240 |
| 250 |      |       |        |         | 25.6 | 308.8 |        | 69,200  | 38.3 | 333.6 | 58,500 | 250 |
| 260 |      |       |        |         | 15.5 | 279.9 |        | 64,300  | 32.4 | 318.7 | 54,300 | 260 |
| 270 |      |       |        |         |      |       |        |         | 25.2 | 299.4 | 50,300 | 270 |
| 280 |      |       |        |         |      |       |        |         | 14.8 | 269.5 | 46,400 | 280 |

# MLC650 VPC-MAX S-1

ASME B30.5



440,900 lb



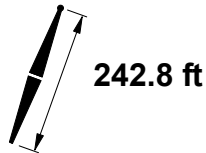
|     | 85°  |       |         |         | 83°  |       |         |         | 80°  |       |         |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|---------|---------|-----|
|     | ft   | °     | ft      | lb      | lb   | ft    | lb      | lb      | ft   | lb    | lb      | ft      |     |
| 85  | 74.6 | 437.8 | 239,100 | 239,100 |      |       |         |         |      |       |         |         | 85  |
| 90  | 73.1 | 436.2 | 239,100 | 239,100 |      |       |         |         |      |       |         |         | 90  |
| 95  | 71.5 | 434.5 | 238,800 | 238,800 |      |       |         |         |      |       |         |         | 95  |
| 100 | 69.9 | 432.6 | 233,700 | 238,100 | 72.6 | 434.7 | 216,800 | 238,800 |      |       |         |         | 100 |
| 105 | 68.3 | 430.6 | 219,000 | 237,100 | 71.0 | 433.0 | 203,000 | 238,800 |      |       |         |         | 105 |
| 110 | 66.7 | 428.4 | 205,800 | 235,800 | 69.4 | 431.0 | 190,500 | 238,800 |      |       |         |         | 110 |
| 115 | 65.1 | 426.0 | 193,700 | 234,200 | 67.8 | 428.9 | 179,100 | 238,800 |      |       |         |         | 115 |
| 120 | 63.4 | 423.5 | 182,700 | 232,200 | 66.2 | 426.7 | 168,800 | 238,600 |      |       |         |         | 120 |
| 125 | 61.7 | 420.7 | 172,600 | 226,300 | 64.6 | 424.2 | 159,200 | 237,800 | 68.7 | 428.0 | 139,400 | 234,800 | 125 |
| 130 | 60.0 | 417.8 | 163,200 | 218,800 | 62.9 | 421.6 | 150,500 | 236,800 | 67.0 | 425.8 | 131,400 | 223,400 | 130 |
| 135 | 58.3 | 414.6 | 154,600 | 211,300 | 61.2 | 418.8 | 142,400 | 226,600 | 65.4 | 423.5 | 124,100 | 212,900 | 135 |
| 140 | 56.5 | 411.3 | 146,600 | 203,800 | 59.5 | 415.8 | 134,800 | 216,400 | 63.8 | 421.0 | 117,300 | 203,100 | 140 |
| 145 | 54.7 | 407.7 | 139,200 | 196,500 | 57.7 | 412.6 | 127,800 | 206,800 | 62.1 | 418.2 | 110,900 | 194,100 | 145 |
| 150 | 52.8 | 403.8 | 132,300 | 189,200 | 55.9 | 409.2 | 121,300 | 198,000 | 60.4 | 415.3 | 105,000 | 185,700 | 150 |
| 155 | 50.9 | 399.7 | 125,800 | 182,300 | 54.1 | 405.5 | 115,200 | 189,700 | 58.6 | 412.2 | 99,500  | 177,900 | 155 |
| 160 | 48.9 | 395.3 | 119,700 | 175,500 | 52.2 | 401.6 | 109,500 | 182,000 | 56.8 | 408.9 | 94,300  | 170,500 | 160 |
| 165 | 46.9 | 390.6 | 114,000 | 169,100 | 50.3 | 397.4 | 104,200 | 174,800 | 55.0 | 405.4 | 89,400  | 163,700 | 165 |
| 170 | 44.7 | 385.5 | 108,700 | 163,000 | 48.3 | 392.9 | 99,100  | 168,000 | 53.2 | 401.6 | 84,800  | 157,200 | 170 |
| 175 | 42.6 | 380.0 | 103,600 | 157,200 | 46.2 | 388.0 | 94,300  | 161,600 | 51.3 | 397.5 | 80,500  | 151,200 | 175 |
| 180 | 40.3 | 374.0 | 98,800  | 151,800 | 44.1 | 382.8 | 89,800  | 155,500 | 49.3 | 393.2 | 76,400  | 145,400 | 180 |
| 185 | 37.8 | 367.6 | 94,200  | 146,800 | 41.8 | 377.2 | 85,500  | 149,800 | 47.3 | 388.5 | 72,500  | 140,000 | 185 |
| 190 | 35.3 | 360.5 | 89,900  | 142,200 | 39.5 | 371.1 | 81,500  | 144,400 | 45.2 | 383.5 | 68,900  | 134,900 | 190 |
| 195 | 32.5 | 352.7 | 85,800  | 138,100 | 37.1 | 364.4 | 77,600  | 139,300 | 43.0 | 378.1 | 65,400  | 130,100 | 195 |
| 200 | 29.5 | 343.9 | 81,800  | 134,600 | 34.4 | 357.1 | 73,900  | 134,500 | 40.7 | 372.2 | 62,000  | 125,500 | 200 |
| 205 | 26.2 | 333.9 | 78,000  | 131,700 | 31.6 | 349.0 | 70,400  | 129,800 | 38.3 | 365.9 | 58,800  | 121,100 | 205 |
| 210 | 22.4 | 322.2 | 74,400  | 129,600 | 28.5 | 339.9 | 67,000  | 125,400 | 35.8 | 358.9 | 55,800  | 116,900 | 210 |
| 215 | 17.9 | 307.5 | 70,800  | 126,600 | 25.1 | 329.5 | 63,700  | 121,200 | 33.1 | 351.3 | 52,900  | 112,900 | 215 |
| 220 | 11.4 | 286.4 | 67,200  | 122,300 | 21.1 | 317.0 | 60,500  | 117,100 | 30.2 | 342.7 | 50,000  | 109,100 | 220 |
| 225 |      |       |         |         | 16.2 | 300.9 | 57,400  | 113,200 | 26.9 | 333.0 | 47,300  | 105,400 | 225 |
| 230 |      |       |         |         | 8.3  | 275.0 | 54,100  | 109,300 | 23.3 | 321.7 | 44,700  | 101,900 | 230 |
| 240 |      |       |         |         |      |       |         |         | 13.0 | 288.6 | 39,400  | 95,200  | 240 |
| 250 |      |       |         |         |      |       |         |         |      |       |         |         | 250 |
| 260 |      |       |         |         |      |       |         |         |      |       |         |         | 260 |
| 270 |      |       |         |         |      |       |         |         |      |       |         |         | 270 |
| 280 |      |       |         |         |      |       |         |         |      |       |         |         | 280 |
| 290 |      |       |         |         |      |       |         |         |      |       |         |         | 290 |
| 300 |      |       |         |         |      |       |         |         |      |       |         |         | 300 |

# MLC650 VPC-MAX S-1

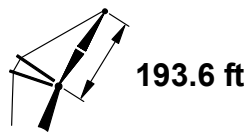
ASME B30.5



440,900 lb



242.8 ft

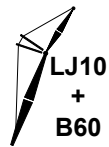


193.6 ft

|     | 75°  |       |        |         | 70°  |       |        |      | 65°   |        |    |     |
|-----|------|-------|--------|---------|------|-------|--------|------|-------|--------|----|-----|
|     |      |       |        |         |      |       |        |      |       |        |    |     |
| ft  | °    | ft    | lb     | lb      | °    | ft    | lb     | °    | ft    | lb     | ft |     |
| 85  |      |       |        |         |      |       |        |      |       |        |    | 85  |
| 90  |      |       |        |         |      |       |        |      |       |        |    | 90  |
| 95  |      |       |        |         |      |       |        |      |       |        |    | 95  |
| 100 |      |       |        |         |      |       |        |      |       |        |    | 100 |
| 105 |      |       |        |         |      |       |        |      |       |        |    | 105 |
| 110 |      |       |        |         |      |       |        |      |       |        |    | 110 |
| 115 |      |       |        |         |      |       |        |      |       |        |    | 115 |
| 120 |      |       |        |         |      |       |        |      |       |        |    | 120 |
| 125 |      |       |        |         |      |       |        |      |       |        |    | 125 |
| 130 |      |       |        |         |      |       |        |      |       |        |    | 130 |
| 135 |      |       |        |         |      |       |        |      |       |        |    | 135 |
| 140 |      |       |        |         |      |       |        |      |       |        |    | 140 |
| 145 |      |       |        |         |      |       |        |      |       |        |    | 145 |
| 150 |      |       |        |         |      |       |        |      |       |        |    | 150 |
| 155 |      |       |        |         |      |       |        |      |       |        |    | 155 |
| 160 | 64.0 | 416.4 | 69,200 | 151,700 |      |       |        |      |       |        |    | 160 |
| 165 | 62.3 | 413.8 | 65,100 | 145,400 |      |       |        |      |       |        |    | 165 |
| 170 | 60.6 | 410.9 | 61,300 | 139,500 |      |       |        |      |       |        |    | 170 |
| 175 | 58.9 | 407.8 | 57,700 | 134,000 |      |       |        |      |       |        |    | 175 |
| 180 | 57.1 | 404.5 | 54,300 | 128,800 |      |       |        |      |       |        |    | 180 |
| 185 | 55.3 | 401.0 | 51,100 | 123,900 |      |       |        |      |       |        |    | 185 |
| 190 | 53.4 | 397.2 | 48,000 | 119,200 |      |       |        |      |       |        |    | 190 |
| 195 | 51.5 | 393.2 | 45,100 | 114,800 | 58.9 | 401.3 | 99,900 |      |       |        |    | 195 |
| 200 | 49.6 | 388.9 | 42,300 | 110,600 | 57.1 | 398.0 | 96,100 |      |       |        |    | 200 |
| 205 | 47.6 | 384.3 | 39,700 | 106,600 | 55.3 | 394.5 | 92,500 |      |       |        |    | 205 |
| 210 | 45.5 | 379.3 | 37,200 | 102,800 | 53.5 | 390.7 | 89,100 |      |       |        |    | 210 |
| 215 | 43.3 | 374.0 | 34,700 | 99,200  | 51.6 | 386.7 | 85,800 |      |       |        |    | 215 |
| 220 | 41.0 | 368.2 | 32,400 | 95,800  | 49.6 | 382.4 | 82,700 |      |       |        |    | 220 |
| 225 | 38.7 | 361.9 | 30,200 | 92,500  | 47.6 | 377.8 | 79,700 |      |       |        |    | 225 |
| 230 | 36.1 | 355.0 | 28,100 | 89,300  | 45.5 | 372.8 | 76,800 | 53.3 | 381.9 | 64,700 |    | 230 |
| 240 | 30.6 | 339.1 | 24,000 | 83,300  | 41.1 | 361.7 | 71,500 | 49.4 | 373.6 | 59,900 |    | 240 |
| 250 | 23.8 | 318.4 | 20,100 | 77,800  | 36.2 | 348.6 | 66,500 | 45.3 | 363.9 | 55,400 |    | 250 |
| 260 | 14.0 | 286.8 |        | 72,500  | 30.7 | 332.7 | 61,900 | 40.9 | 352.7 | 51,300 |    | 260 |
| 270 |      |       |        |         | 23.9 | 312.2 | 57,500 | 36.0 | 339.5 | 47,500 |    | 270 |
| 280 |      |       |        |         | 14.2 | 280.9 | 53,300 | 30.4 | 323.4 | 43,900 |    | 280 |
| 290 |      |       |        |         |      |       |        | 23.5 | 302.6 | 40,500 |    | 290 |
| 300 |      |       |        |         |      |       |        | 13.5 | 270.3 | 37,100 |    | 300 |

# MLC650 VPC-MAX S-1

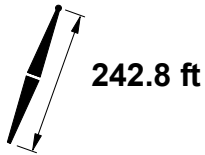
ASME B30.5



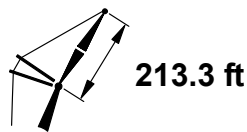
440,900 lb



360°



242.8 ft



213.3 ft

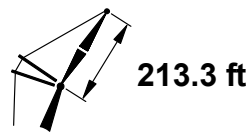
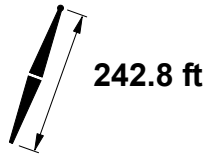
|     | 85°  |       |         |         | 83°  |       |         |         | 80°  |       |         |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|---------|---------|-----|
|     |      |       |         |         |      |       |         |         |      |       |         |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | ft  |
| 90  | 74.7 | 456.9 | 209,700 | 209,700 |      |       |         |         |      |       |         |         | 90  |
| 95  | 73.3 | 455.3 | 209,700 | 209,700 |      |       |         |         |      |       |         |         | 95  |
| 100 | 71.9 | 453.6 | 209,500 | 209,500 |      |       |         |         |      |       |         |         | 100 |
| 105 | 70.4 | 451.8 | 208,700 | 208,700 | 72.8 | 453.8 | 199,400 | 209,000 |      |       |         |         | 105 |
| 110 | 69.0 | 449.8 | 202,600 | 207,800 | 71.4 | 452.1 | 187,000 | 209,000 |      |       |         |         | 110 |
| 115 | 67.5 | 447.7 | 190,500 | 206,700 | 70.0 | 450.2 | 175,700 | 209,000 |      |       |         |         | 115 |
| 120 | 66.1 | 445.5 | 179,500 | 205,400 | 68.5 | 448.2 | 165,300 | 209,000 |      |       |         |         | 120 |
| 125 | 64.6 | 443.0 | 169,400 | 204,100 | 67.1 | 446.0 | 155,800 | 209,000 |      |       |         |         | 125 |
| 130 | 63.1 | 440.4 | 160,100 | 202,500 | 65.6 | 443.7 | 147,100 | 208,700 | 69.3 | 447.2 | 127,600 | 205,800 | 130 |
| 135 | 61.5 | 437.7 | 151,600 | 196,800 | 64.1 | 441.2 | 139,000 | 208,000 | 67.8 | 445.1 | 120,300 | 205,800 | 135 |
| 140 | 60.0 | 434.7 | 143,600 | 190,800 | 62.6 | 438.6 | 131,500 | 207,000 | 66.4 | 442.9 | 113,500 | 199,900 | 140 |
| 145 | 58.4 | 431.6 | 136,200 | 184,500 | 61.0 | 435.8 | 124,600 | 204,000 | 64.9 | 440.5 | 107,200 | 191,000 | 145 |
| 150 | 56.8 | 428.3 | 129,300 | 178,400 | 59.5 | 432.8 | 118,100 | 195,200 | 63.4 | 437.9 | 101,400 | 182,600 | 150 |
| 155 | 55.1 | 424.8 | 122,900 | 172,400 | 57.9 | 429.6 | 112,000 | 187,000 | 61.8 | 435.2 | 95,900  | 174,900 | 155 |
| 160 | 53.4 | 421.0 | 116,800 | 166,500 | 56.3 | 426.2 | 106,300 | 179,300 | 60.3 | 432.3 | 90,700  | 167,600 | 160 |
| 165 | 51.7 | 417.0 | 111,200 | 160,700 | 54.6 | 422.6 | 101,000 | 172,100 | 58.7 | 429.2 | 85,900  | 160,800 | 165 |
| 170 | 50.0 | 412.8 | 105,800 | 155,100 | 52.9 | 418.8 | 96,000  | 165,300 | 57.1 | 425.9 | 81,400  | 154,400 | 170 |
| 175 | 48.1 | 408.2 | 100,800 | 149,700 | 51.2 | 414.7 | 91,300  | 159,000 | 55.5 | 422.4 | 77,100  | 148,300 | 175 |
| 180 | 46.3 | 403.4 | 96,000  | 144,500 | 49.4 | 410.4 | 86,800  | 153,000 | 53.8 | 418.7 | 73,000  | 142,700 | 180 |
| 185 | 44.4 | 398.2 | 91,500  | 139,600 | 47.6 | 405.8 | 82,600  | 147,300 | 52.1 | 414.8 | 69,200  | 137,300 | 185 |
| 190 | 42.3 | 392.7 | 87,200  | 134,900 | 45.7 | 400.8 | 78,600  | 142,000 | 50.3 | 410.6 | 65,600  | 132,200 | 190 |
| 195 | 40.3 | 386.8 | 83,200  | 130,500 | 43.7 | 395.6 | 74,700  | 136,900 | 48.5 | 406.1 | 62,100  | 127,400 | 195 |
| 200 | 38.1 | 380.4 | 79,300  | 126,400 | 41.7 | 389.9 | 71,100  | 132,100 | 46.7 | 401.4 | 58,800  | 122,800 | 200 |
| 205 | 35.8 | 373.4 | 75,600  | 122,600 | 39.6 | 383.8 | 67,600  | 127,500 | 44.7 | 396.3 | 55,700  | 118,500 | 205 |
| 210 | 33.3 | 365.8 | 72,100  | 119,200 | 37.4 | 377.3 | 64,300  | 123,100 | 42.8 | 390.8 | 52,700  | 114,400 | 210 |
| 215 | 30.7 | 357.5 | 68,700  | 116,100 | 35.0 | 370.1 | 61,200  | 118,900 | 40.7 | 385.0 | 49,900  | 110,400 | 215 |
| 220 | 27.9 | 348.1 | 65,400  | 113,400 | 32.5 | 362.3 | 58,100  | 115,000 | 38.5 | 378.7 | 47,100  | 106,700 | 220 |
| 225 | 24.7 | 337.4 | 62,300  | 111,300 | 29.9 | 353.7 | 55,200  | 111,100 | 36.3 | 371.8 | 44,500  | 103,100 | 225 |
| 230 | 21.1 | 324.9 | 59,200  | 109,800 | 26.9 | 343.9 | 52,400  | 107,500 | 33.8 | 364.4 | 42,000  | 99,600  | 230 |
| 240 | 10.3 | 286.2 | 53,100  | 105,400 | 19.8 | 319.4 | 46,900  | 100,600 | 28.5 | 347.0 | 37,200  | 93,100  | 240 |
| 250 |      |       |         |         | 7.1  | 273.3 | 41,400  | 93,900  | 21.8 | 324.5 | 32,600  | 87,100  | 250 |
| 260 |      |       |         |         |      |       |         |         | 11.9 | 288.9 | 28,100  | 81,400  | 260 |
| 270 |      |       |         |         |      |       |         |         |      |       |         |         | 270 |
| 280 |      |       |         |         |      |       |         |         |      |       |         |         | 280 |
| 290 |      |       |         |         |      |       |         |         |      |       |         |         | 290 |
| 300 |      |       |         |         |      |       |         |         |      |       |         |         | 300 |
| 310 |      |       |         |         |      |       |         |         |      |       |         |         | 310 |
| 320 |      |       |         |         |      |       |         |         |      |       |         |         | 320 |

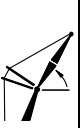
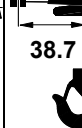
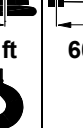
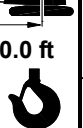
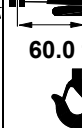
# MLC650 VPC-MAX S-1

ASME B30.5



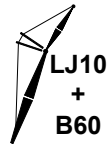
440,900 lb



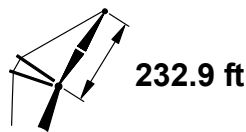
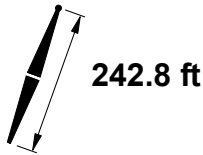
|     | 75°                                                                               |                                                                                   |                                                                                   |                                                                                   | 70°                                                                               |                                                                                   |                                                                                   |                                                                                   | 65°                                                                               |                                                                                    |                                                                                     |                                                                                     |
|-----|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|     |  |  |  |  |  |  |  |  |  |  |  |  |
|     | ft                                                                                | °                                                                                 | ft                                                                                | lb                                                                                | lb                                                                                | °                                                                                 | ft                                                                                | lb                                                                                | °                                                                                 | ft                                                                                 | lb                                                                                  | ft                                                                                  |
| 90  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     | 90                                                                                  |
| 95  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     | 95                                                                                  |
| 100 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     | 100                                                                                 |
| 105 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     | 105                                                                                 |
| 110 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     | 110                                                                                 |
| 115 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     | 115                                                                                 |
| 120 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     | 120                                                                                 |
| 125 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     | 125                                                                                 |
| 130 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     | 130                                                                                 |
| 135 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     | 135                                                                                 |
| 140 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     | 140                                                                                 |
| 145 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     | 145                                                                                 |
| 150 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     | 150                                                                                 |
| 155 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     | 155                                                                                 |
| 160 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     | 160                                                                                 |
| 165 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     | 165                                                                                 |
| 170 | 63.6                                                                              | 433.4                                                                             | 57,300                                                                            | 136,300                                                                           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     | 170                                                                                 |
| 175 | 62.0                                                                              | 430.7                                                                             | 53,700                                                                            | 130,800                                                                           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     | 175                                                                                 |
| 180 | 60.5                                                                              | 427.8                                                                             | 50,400                                                                            | 125,700                                                                           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     | 180                                                                                 |
| 185 | 58.9                                                                              | 424.8                                                                             | 47,200                                                                            | 120,800                                                                           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     | 185                                                                                 |
| 190 | 57.3                                                                              | 421.5                                                                             | 44,200                                                                            | 116,200                                                                           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     | 190                                                                                 |
| 195 | 55.7                                                                              | 418.0                                                                             | 41,300                                                                            | 111,800                                                                           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     | 195                                                                                 |
| 200 | 54.0                                                                              | 414.4                                                                             | 38,600                                                                            | 107,600                                                                           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     | 200                                                                                 |
| 205 | 52.3                                                                              | 410.5                                                                             | 36,000                                                                            | 103,700                                                                           | 59.0                                                                              | 418.2                                                                             | 89,200                                                                            |                                                                                   |                                                                                   |                                                                                    |                                                                                     | 205                                                                                 |
| 210 | 50.6                                                                              | 406.3                                                                             | 33,500                                                                            | 99,900                                                                            | 57.4                                                                              | 415.0                                                                             | 85,800                                                                            |                                                                                   |                                                                                   |                                                                                    |                                                                                     | 210                                                                                 |
| 215 | 48.8                                                                              | 401.9                                                                             | 31,200                                                                            | 96,400                                                                            | 55.7                                                                              | 411.5                                                                             | 82,600                                                                            |                                                                                   |                                                                                   |                                                                                    |                                                                                     | 215                                                                                 |
| 220 | 46.9                                                                              | 397.1                                                                             | 28,900                                                                            | 93,000                                                                            | 54.1                                                                              | 407.8                                                                             | 79,500                                                                            |                                                                                   |                                                                                   |                                                                                    |                                                                                     | 220                                                                                 |
| 225 | 45.0                                                                              | 392.1                                                                             | 26,700                                                                            | 89,700                                                                            | 52.4                                                                              | 403.9                                                                             | 76,600                                                                            |                                                                                   |                                                                                   |                                                                                    |                                                                                     | 225                                                                                 |
| 230 | 43.0                                                                              | 386.7                                                                             | 24,600                                                                            | 86,600                                                                            | 50.6                                                                              | 399.8                                                                             | 73,800                                                                            |                                                                                   |                                                                                   |                                                                                    |                                                                                     | 230                                                                                 |
| 240 | 38.8                                                                              | 374.7                                                                             | 20,700                                                                            | 80,700                                                                            | 47.0                                                                              | 390.7                                                                             | 68,500                                                                            | 53.9                                                                              | 399.1                                                                             | 56,600                                                                             |                                                                                     | 240                                                                                 |
| 250 | 34.2                                                                              | 360.6                                                                             |                                                                                   | 75,300                                                                            | 43.1                                                                              | 380.2                                                                             | 63,600                                                                            | 50.4                                                                              | 391.0                                                                             | 52,300                                                                             |                                                                                     | 250                                                                                 |
| 260 | 28.9                                                                              | 343.5                                                                             |                                                                                   | 70,300                                                                            | 38.9                                                                              | 368.2                                                                             | 59,100                                                                            | 46.8                                                                              | 381.8                                                                             | 48,200                                                                             |                                                                                     | 260                                                                                 |
| 270 | 22.3                                                                              | 321.4                                                                             |                                                                                   | 65,500                                                                            | 34.3                                                                              | 354.2                                                                             | 54,900                                                                            | 42.9                                                                              | 371.3                                                                             | 44,500                                                                             |                                                                                     | 270                                                                                 |
| 280 | 12.8                                                                              | 287.4                                                                             |                                                                                   | 61,000                                                                            | 28.9                                                                              | 337.1                                                                             | 51,000                                                                            | 38.7                                                                              | 359.2                                                                             | 41,000                                                                             |                                                                                     | 280                                                                                 |
| 290 |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 22.5                                                                              | 315.2                                                                             | 47,200                                                                            | 34.0                                                                              | 345.0                                                                             | 37,700                                                                             |                                                                                     | 290                                                                                 |
| 300 |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 13.0                                                                              | 281.5                                                                             | 43,600                                                                            | 28.7                                                                              | 327.8                                                                             | 34,600                                                                             |                                                                                     | 300                                                                                 |
| 310 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 22.1                                                                              | 305.5                                                                             | 31,600                                                                             |                                                                                     | 310                                                                                 |
| 320 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 12.4                                                                              | 270.7                                                                             | 28,700                                                                             |                                                                                     | 320                                                                                 |

# MLC650 VPC-MAX S-1

ASME B30.5



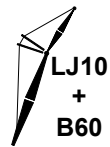
440,900 lb



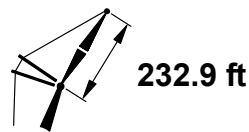
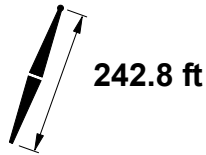
|     | 85°  |       |         |         | 83°  |       |         |         | 80°  |       |         |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|---------|---------|-----|
|     |      |       |         |         |      |       |         |         |      |       |         |         |     |
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | ft  |
| 95  | 74.7 | 475.9 | 182,300 | 182,300 |      |       |         |         |      |       |         |         | 95  |
| 100 | 73.5 | 474.4 | 182,300 | 182,300 |      |       |         |         |      |       |         |         | 100 |
| 105 | 72.2 | 472.7 | 182,100 | 182,100 |      |       |         |         |      |       |         |         | 105 |
| 110 | 70.9 | 470.9 | 181,700 | 181,700 |      |       |         |         |      |       |         |         | 110 |
| 115 | 69.5 | 469.0 | 181,100 | 181,100 | 71.8 | 471.2 | 173,200 | 181,600 |      |       |         |         | 115 |
| 120 | 68.2 | 467.0 | 177,400 | 180,300 | 70.4 | 469.4 | 162,900 | 181,600 |      |       |         |         | 120 |
| 125 | 66.9 | 464.8 | 167,300 | 179,400 | 69.1 | 467.4 | 153,400 | 181,600 |      |       |         |         | 125 |
| 130 | 65.5 | 462.5 | 158,000 | 178,400 | 67.8 | 465.3 | 144,700 | 181,500 |      |       |         |         | 130 |
| 135 | 64.1 | 460.0 | 149,500 | 177,300 | 66.4 | 463.1 | 136,700 | 181,300 | 69.8 | 466.4 | 117,600 | 177,500 | 135 |
| 140 | 62.8 | 457.4 | 141,500 | 176,100 | 65.1 | 460.7 | 129,200 | 180,800 | 68.5 | 464.4 | 110,900 | 177,500 | 140 |
| 145 | 61.3 | 454.6 | 134,200 | 173,200 | 63.7 | 458.2 | 122,300 | 180,100 | 67.1 | 462.2 | 104,600 | 177,500 | 145 |
| 150 | 59.9 | 451.7 | 127,300 | 168,200 | 62.3 | 455.6 | 115,800 | 179,400 | 65.8 | 459.9 | 98,800  | 177,500 | 150 |
| 155 | 58.5 | 448.6 | 120,900 | 163,300 | 60.9 | 452.7 | 109,800 | 178,600 | 64.4 | 457.5 | 93,300  | 172,600 | 155 |
| 160 | 57.0 | 445.3 | 114,800 | 158,300 | 59.5 | 449.7 | 104,200 | 177,300 | 63.0 | 454.9 | 88,200  | 165,400 | 160 |
| 165 | 55.5 | 441.8 | 109,200 | 153,400 | 58.0 | 446.6 | 98,900  | 170,100 | 61.6 | 452.2 | 83,400  | 158,600 | 165 |
| 170 | 54.0 | 438.1 | 103,900 | 148,500 | 56.5 | 443.2 | 93,900  | 163,400 | 60.2 | 449.3 | 78,900  | 152,300 | 170 |
| 175 | 52.4 | 434.2 | 98,900  | 143,700 | 55.0 | 439.7 | 89,200  | 157,100 | 58.8 | 446.2 | 74,700  | 146,300 | 175 |
| 180 | 50.8 | 430.1 | 94,100  | 139,000 | 53.5 | 435.9 | 84,700  | 151,100 | 57.3 | 442.9 | 70,700  | 140,600 | 180 |
| 185 | 49.2 | 425.8 | 89,700  | 134,400 | 51.9 | 432.0 | 80,500  | 145,500 | 55.8 | 439.5 | 66,900  | 135,300 | 185 |
| 190 | 47.5 | 421.1 | 85,400  | 130,000 | 50.3 | 427.8 | 76,500  | 140,200 | 54.3 | 435.8 | 63,300  | 130,300 | 190 |
| 195 | 45.8 | 416.2 | 81,400  | 125,800 | 48.7 | 423.3 | 72,800  | 135,100 | 52.7 | 432.0 | 59,900  | 125,500 | 195 |
| 200 | 44.0 | 411.0 | 77,600  | 121,700 | 47.0 | 418.6 | 69,200  | 130,300 | 51.1 | 427.9 | 56,600  | 120,900 | 200 |
| 205 | 42.2 | 405.5 | 73,900  | 117,800 | 45.2 | 413.6 | 65,700  | 125,800 | 49.5 | 423.6 | 53,500  | 116,600 | 205 |
| 210 | 40.3 | 399.5 | 70,400  | 114,100 | 43.5 | 408.3 | 62,500  | 121,500 | 47.9 | 419.0 | 50,600  | 112,500 | 210 |
| 215 | 38.3 | 393.2 | 67,100  | 110,700 | 41.6 | 402.7 | 59,400  | 117,300 | 46.1 | 414.2 | 47,700  | 108,600 | 215 |
| 220 | 36.2 | 386.3 | 63,900  | 107,500 | 39.7 | 396.6 | 56,400  | 113,400 | 44.4 | 409.1 | 45,000  | 104,900 | 220 |
| 225 | 34.0 | 378.9 | 60,900  | 104,500 | 37.6 | 390.1 | 53,500  | 109,600 | 42.6 | 403.6 | 42,500  | 101,300 | 225 |
| 230 | 31.7 | 370.8 | 57,900  | 101,800 | 35.5 | 383.1 | 50,800  | 106,000 | 40.7 | 397.7 | 40,000  | 97,900  | 230 |
| 240 | 26.4 | 352.0 | 52,400  | 97,400  | 30.9 | 367.2 | 45,600  | 99,200  | 36.6 | 384.7 | 35,300  | 91,500  | 240 |
| 250 | 19.9 | 327.3 | 47,100  | 94,700  | 25.5 | 347.6 | 40,700  | 93,000  | 32.1 | 369.5 | 31,000  | 85,600  | 250 |
| 260 | 9.3  | 285.6 | 41,900  | 91,600  | 18.6 | 321.5 | 36,100  | 87,100  | 27.0 | 351.1 | 26,900  | 80,100  | 260 |
| 270 |      |       |         |         | 5.9  | 270.8 | 31,200  | 81,400  | 20.6 | 327.2 | 23,000  | 75,000  | 270 |
| 280 |      |       |         |         |      |       |         |         | 10.9 | 288.9 |         | 70,100  | 280 |
| 290 |      |       |         |         |      |       |         |         |      |       |         |         | 290 |
| 300 |      |       |         |         |      |       |         |         |      |       |         |         | 300 |
| 310 |      |       |         |         |      |       |         |         |      |       |         |         | 310 |
| 320 |      |       |         |         |      |       |         |         |      |       |         |         | 320 |
| 330 |      |       |         |         |      |       |         |         |      |       |         |         | 330 |
| 340 |      |       |         |         |      |       |         |         |      |       |         |         | 340 |

# MLC650 VPC-MAX S-1

ASME B30.5



440,900 lb



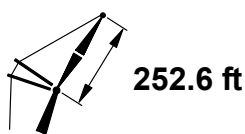
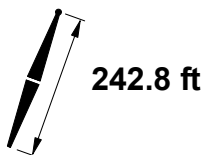
|     | 75°  |       |        |         | 70°  |       |        |      | 65°   |        |    |     |
|-----|------|-------|--------|---------|------|-------|--------|------|-------|--------|----|-----|
|     |      |       |        |         |      |       |        |      |       |        |    |     |
| ft  | °    | ft    | lb     | lb      | °    | ft    | lb     | lb   | °     | ft     | lb | ft  |
| 95  |      |       |        |         |      |       |        |      |       |        |    | 95  |
| 100 |      |       |        |         |      |       |        |      |       |        |    | 100 |
| 105 |      |       |        |         |      |       |        |      |       |        |    | 105 |
| 110 |      |       |        |         |      |       |        |      |       |        |    | 110 |
| 115 |      |       |        |         |      |       |        |      |       |        |    | 115 |
| 120 |      |       |        |         |      |       |        |      |       |        |    | 120 |
| 125 |      |       |        |         |      |       |        |      |       |        |    | 125 |
| 130 |      |       |        |         |      |       |        |      |       |        |    | 130 |
| 135 |      |       |        |         |      |       |        |      |       |        |    | 135 |
| 140 |      |       |        |         |      |       |        |      |       |        |    | 140 |
| 145 |      |       |        |         |      |       |        |      |       |        |    | 145 |
| 150 |      |       |        |         |      |       |        |      |       |        |    | 150 |
| 155 |      |       |        |         |      |       |        |      |       |        |    | 155 |
| 160 |      |       |        |         |      |       |        |      |       |        |    | 160 |
| 165 |      |       |        |         |      |       |        |      |       |        |    | 165 |
| 170 |      |       |        |         |      |       |        |      |       |        |    | 170 |
| 175 | 64.6 | 453.0 | 50,800 | 128,500 |      |       |        |      |       |        |    | 175 |
| 180 | 63.2 | 450.4 | 47,500 | 123,300 |      |       |        |      |       |        |    | 180 |
| 185 | 61.8 | 447.7 | 44,400 | 118,500 |      |       |        |      |       |        |    | 185 |
| 190 | 60.4 | 444.8 | 41,400 | 113,900 |      |       |        |      |       |        |    | 190 |
| 195 | 59.0 | 441.7 | 38,600 | 109,600 |      |       |        |      |       |        |    | 195 |
| 200 | 57.5 | 438.5 | 35,900 | 105,500 |      |       |        |      |       |        |    | 200 |
| 205 | 56.0 | 435.1 | 33,400 | 101,600 |      |       |        |      |       |        |    | 205 |
| 210 | 54.5 | 431.5 | 30,900 | 97,800  |      |       |        |      |       |        |    | 210 |
| 215 | 52.9 | 427.6 | 28,600 | 94,300  | 59.0 | 435.2 | 80,300 |      |       |        |    | 215 |
| 220 | 51.4 | 423.6 | 26,400 | 90,900  | 57.5 | 432.0 | 77,200 |      |       |        |    | 220 |
| 225 | 49.7 | 419.3 | 24,200 | 87,700  | 56.1 | 428.5 | 74,300 |      |       |        |    | 225 |
| 230 | 48.1 | 414.8 | 22,200 | 84,600  | 54.5 | 424.9 | 71,500 |      |       |        |    | 230 |
| 240 | 44.6 | 404.9 |        | 78,800  | 51.4 | 417.1 | 66,300 |      |       |        |    | 240 |
| 250 | 40.9 | 393.7 |        | 73,500  | 48.1 | 408.3 | 61,500 | 54.4 | 416.2 | 49,900 |    | 250 |
| 260 | 36.9 | 380.8 |        | 68,500  | 44.7 | 398.4 | 57,100 | 51.3 | 408.3 | 46,000 |    | 260 |
| 270 | 32.5 | 365.7 |        | 63,900  | 41.0 | 387.2 | 53,000 | 48.0 | 399.5 | 42,300 |    | 270 |
| 280 | 27.4 | 347.5 |        | 59,600  | 37.0 | 374.3 | 49,100 | 44.5 | 389.5 | 38,900 |    | 280 |
| 290 | 21.1 | 324.1 |        | 55,600  | 32.5 | 359.3 | 45,500 | 40.8 | 378.2 | 35,700 |    | 290 |
| 300 | 11.8 | 287.7 |        | 51,600  | 27.5 | 341.2 | 42,100 | 36.8 | 365.3 | 32,700 |    | 300 |
| 310 |      |       |        |         | 21.2 | 317.9 | 38,900 | 32.3 | 350.1 | 29,600 |    | 310 |
| 320 |      |       |        |         | 12.0 | 281.9 | 35,700 | 27.2 | 331.8 | 26,500 |    | 320 |
| 330 |      |       |        |         |      |       |        | 20.9 | 308.2 | 23,500 |    | 330 |
| 340 |      |       |        |         |      |       |        | 11.4 | 270.9 | 20,500 |    | 340 |

# MLC650 VPC-MAX S-1

ASME B30.5



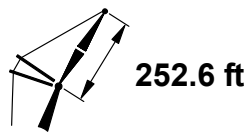
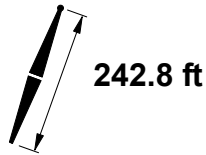
440,900 lb



| 85° |      |       |         |         | 83°  |       |         |         | 80°  |       |         |         |     |
|-----|------|-------|---------|---------|------|-------|---------|---------|------|-------|---------|---------|-----|
| ft  | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | °    | ft    | lb      | lb      | ft  |
| 100 | 74.8 | 495.0 | 159,400 | 159,400 |      |       |         |         |      |       |         |         | 100 |
| 105 | 73.6 | 493.4 | 159,300 | 159,300 |      |       |         |         |      |       |         |         | 105 |
| 110 | 72.4 | 491.8 | 159,000 | 159,000 |      |       |         |         |      |       |         |         | 110 |
| 115 | 71.2 | 490.1 | 158,600 | 158,600 |      |       |         |         |      |       |         |         | 115 |
| 120 | 70.0 | 488.2 | 158,100 | 158,100 | 72.0 | 490.3 | 158,300 | 158,300 |      |       |         |         | 120 |
| 125 | 68.8 | 486.2 | 157,400 | 157,400 | 70.8 | 488.5 | 149,600 | 158,300 |      |       |         |         | 125 |
| 130 | 67.5 | 484.1 | 154,500 | 156,700 | 69.6 | 486.6 | 140,900 | 158,300 |      |       |         |         | 130 |
| 135 | 66.3 | 481.9 | 146,000 | 155,900 | 68.4 | 484.6 | 132,900 | 158,100 |      |       |         |         | 135 |
| 140 | 65.0 | 479.5 | 138,100 | 155,100 | 67.2 | 482.4 | 125,500 | 157,700 |      |       |         |         | 140 |
| 145 | 63.8 | 477.0 | 130,700 | 154,100 | 65.9 | 480.2 | 118,600 | 157,400 | 69.0 | 483.6 | 100,600 | 154,700 | 145 |
| 150 | 62.5 | 474.4 | 123,900 | 153,100 | 64.7 | 477.8 | 112,200 | 156,900 | 67.8 | 481.5 | 94,800  | 154,700 | 150 |
| 155 | 61.2 | 471.6 | 117,500 | 151,300 | 63.4 | 475.2 | 106,200 | 156,400 | 66.6 | 479.3 | 89,400  | 154,700 | 155 |
| 160 | 59.9 | 468.6 | 111,500 | 147,200 | 62.1 | 472.5 | 100,600 | 155,800 | 65.3 | 477.0 | 84,300  | 154,700 | 160 |
| 165 | 58.6 | 465.5 | 105,800 | 143,100 | 60.8 | 469.7 | 95,300  | 155,200 | 64.0 | 474.5 | 79,500  | 154,700 | 165 |
| 170 | 57.2 | 462.3 | 100,500 | 139,000 | 59.5 | 466.7 | 90,300  | 154,500 | 62.8 | 471.9 | 75,100  | 149,100 | 170 |
| 175 | 55.8 | 458.8 | 95,600  | 135,000 | 58.1 | 463.5 | 85,600  | 153,700 | 61.5 | 469.1 | 70,800  | 143,200 | 175 |
| 180 | 54.4 | 455.2 | 90,900  | 130,900 | 56.8 | 460.2 | 81,200  | 148,300 | 60.2 | 466.2 | 66,900  | 137,500 | 180 |
| 185 | 53.0 | 451.4 | 86,400  | 126,900 | 55.4 | 456.7 | 77,000  | 142,700 | 58.8 | 463.1 | 63,100  | 132,300 | 185 |
| 190 | 51.5 | 447.4 | 82,200  | 123,000 | 54.0 | 453.1 | 73,100  | 137,400 | 57.5 | 459.9 | 59,500  | 127,200 | 190 |
| 195 | 50.1 | 443.2 | 78,200  | 119,200 | 52.5 | 449.2 | 69,300  | 132,300 | 56.1 | 456.5 | 56,100  | 122,500 | 195 |
| 200 | 48.5 | 438.7 | 74,400  | 115,500 | 51.1 | 445.1 | 65,800  | 127,600 | 54.7 | 452.9 | 52,900  | 118,000 | 200 |
| 205 | 47.0 | 434.0 | 70,800  | 111,900 | 49.6 | 440.8 | 62,400  | 123,100 | 53.3 | 449.2 | 49,900  | 113,700 | 205 |
| 210 | 45.4 | 429.1 | 67,300  | 108,400 | 48.1 | 436.3 | 59,100  | 118,800 | 51.8 | 445.2 | 47,000  | 109,600 | 210 |
| 215 | 43.7 | 423.8 | 64,000  | 105,000 | 46.5 | 431.5 | 56,100  | 114,700 | 50.4 | 441.0 | 44,200  | 105,800 | 215 |
| 220 | 42.0 | 418.2 | 60,900  | 101,900 | 44.9 | 426.4 | 53,100  | 110,700 | 48.8 | 436.6 | 41,500  | 102,100 | 220 |
| 225 | 40.3 | 412.3 | 57,900  | 98,800  | 43.2 | 421.1 | 50,300  | 107,000 | 47.3 | 431.9 | 39,000  | 98,500  | 225 |
| 230 | 38.5 | 406.0 | 55,000  | 96,000  | 41.5 | 415.4 | 47,600  | 103,400 | 45.7 | 427.0 | 36,500  | 95,200  | 230 |
| 240 | 34.5 | 391.9 | 49,500  | 90,700  | 37.9 | 402.9 | 42,500  | 96,700  | 42.4 | 416.3 | 31,900  | 88,800  | 240 |
| 250 | 30.2 | 375.5 | 44,500  | 86,400  | 33.9 | 388.6 | 37,800  | 90,500  | 38.8 | 404.2 | 27,700  | 83,000  | 250 |
| 260 | 25.1 | 355.6 | 39,700  | 83,000  | 29.5 | 371.7 | 33,300  | 84,800  | 35.0 | 390.4 | 23,700  | 77,600  | 260 |
| 270 | 18.8 | 329.5 | 35,200  | 81,200  | 24.2 | 351.0 | 29,200  | 79,500  | 30.7 | 374.3 | 20,000  | 72,600  | 270 |
| 280 | 8.3  | 284.6 | 30,700  | 78,700  | 17.6 | 323.4 | 25,200  | 74,500  | 25.7 | 354.8 |         | 67,900  | 280 |
| 290 |      |       |         |         | 4.6  | 267.2 | 20,900  | 69,500  | 19.5 | 329.5 |         | 63,500  | 290 |
| 300 |      |       |         |         |      |       |         |         | 10.0 | 288.6 |         | 59,200  | 300 |
| 310 |      |       |         |         |      |       |         |         |      |       |         |         | 310 |
| 320 |      |       |         |         |      |       |         |         |      |       |         |         | 320 |
| 330 |      |       |         |         |      |       |         |         |      |       |         |         | 330 |
| 340 |      |       |         |         |      |       |         |         |      |       |         |         | 340 |

# MLC650 VPC-MAX S-1

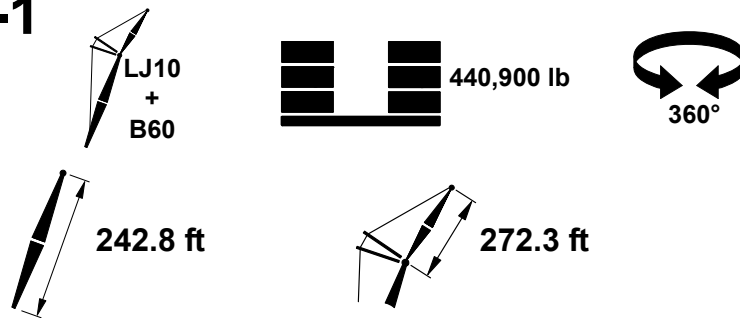
ASME B30.5



|     | 75°  |       |        |         | 70°  |       |        |      | 65°   |        |    |     |
|-----|------|-------|--------|---------|------|-------|--------|------|-------|--------|----|-----|
|     |      |       |        |         |      |       |        |      |       |        |    |     |
|     | ft   | °     | ft     | lb      | lb   | °     | ft     | lb   | °     | ft     | lb | ft  |
| 100 |      |       |        |         |      |       |        |      |       |        |    | 100 |
| 105 |      |       |        |         |      |       |        |      |       |        |    | 105 |
| 110 |      |       |        |         |      |       |        |      |       |        |    | 110 |
| 115 |      |       |        |         |      |       |        |      |       |        |    | 115 |
| 120 |      |       |        |         |      |       |        |      |       |        |    | 120 |
| 125 |      |       |        |         |      |       |        |      |       |        |    | 125 |
| 130 |      |       |        |         |      |       |        |      |       |        |    | 130 |
| 135 |      |       |        |         |      |       |        |      |       |        |    | 135 |
| 140 |      |       |        |         |      |       |        |      |       |        |    | 140 |
| 145 |      |       |        |         |      |       |        |      |       |        |    | 145 |
| 150 |      |       |        |         |      |       |        |      |       |        |    | 150 |
| 155 |      |       |        |         |      |       |        |      |       |        |    | 155 |
| 160 |      |       |        |         |      |       |        |      |       |        |    | 160 |
| 165 |      |       |        |         |      |       |        |      |       |        |    | 165 |
| 170 |      |       |        |         |      |       |        |      |       |        |    | 170 |
| 175 |      |       |        |         |      |       |        |      |       |        |    | 175 |
| 180 |      |       |        |         |      |       |        |      |       |        |    | 180 |
| 185 | 64.2 | 470.0 | 40,200 | 115,100 |      |       |        |      |       |        |    | 185 |
| 190 | 62.9 | 467.4 | 37,200 | 110,600 |      |       |        |      |       |        |    | 190 |
| 195 | 61.6 | 464.6 | 34,400 | 106,300 |      |       |        |      |       |        |    | 195 |
| 200 | 60.3 | 461.7 | 31,800 | 102,200 |      |       |        |      |       |        |    | 200 |
| 205 | 59.0 | 458.7 | 29,300 | 98,300  |      |       |        |      |       |        |    | 205 |
| 210 | 57.7 | 455.5 | 26,900 | 94,700  |      |       |        |      |       |        |    | 210 |
| 215 | 56.3 | 452.1 | 24,600 | 91,200  |      |       |        |      |       |        |    | 215 |
| 220 | 54.9 | 448.5 | 22,400 | 87,800  |      |       |        |      |       |        |    | 220 |
| 225 | 53.5 | 444.8 | 20,300 | 84,600  | 59.0 | 452.1 | 71,000 |      |       |        |    | 225 |
| 230 | 52.0 | 440.9 |        | 81,500  | 57.7 | 448.9 | 68,200 |      |       |        |    | 230 |
| 240 | 49.1 | 432.3 |        | 75,800  | 54.9 | 442.0 | 63,100 |      |       |        |    | 240 |
| 250 | 45.9 | 422.8 |        | 70,500  | 52.1 | 434.3 | 58,300 |      |       |        |    | 250 |
| 260 | 42.6 | 412.2 |        | 65,700  | 49.1 | 425.8 | 54,000 | 54.8 | 433.3 | 42,600 |    | 260 |
| 270 | 39.1 | 400.2 |        | 61,100  | 46.0 | 416.3 | 49,900 | 51.9 | 425.6 | 39,000 |    | 270 |
| 280 | 35.2 | 386.5 |        | 56,900  | 42.7 | 405.7 | 46,100 | 49.0 | 417.0 | 35,500 |    | 280 |
| 290 | 31.0 | 370.6 |        | 53,000  | 39.1 | 393.8 | 42,600 | 45.8 | 407.5 | 31,900 |    | 290 |
| 300 | 26.0 | 351.4 |        | 49,200  | 35.3 | 380.1 | 39,300 | 42.5 | 396.8 | 28,600 |    | 300 |
| 310 | 20.0 | 326.6 |        | 45,700  | 31.0 | 364.2 | 36,200 | 39.0 | 384.8 | 25,400 |    | 310 |
| 320 | 10.9 | 287.7 |        | 42,200  | 26.1 | 345.1 | 33,200 | 35.1 | 371.0 | 22,400 |    | 320 |
| 330 |      |       |        |         | 20.1 | 320.4 | 30,400 |      |       |        |    | 330 |
| 340 |      |       |        |         | 11.1 | 282.0 | 27,500 |      |       |        |    | 340 |

# MLC650 VPC-MAX S-1

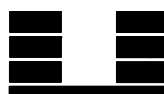
ASME B30.5



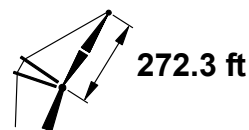
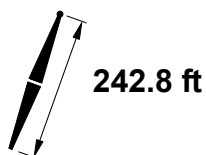
|     | 85°  |       |         | 83°  |       |         | 80°  |       |         |     |
|-----|------|-------|---------|------|-------|---------|------|-------|---------|-----|
|     |      |       |         |      |       |         |      |       |         |     |
|     | ft   | °     | ft      | lb   | °     | ft      | lb   | °     | ft      | lb  |
| 105 | 74.8 | 514.0 | 140,000 |      |       |         |      |       |         | 105 |
| 110 | 73.7 | 512.5 | 139,800 |      |       |         |      |       |         | 110 |
| 115 | 72.6 | 510.9 | 139,500 |      |       |         |      |       |         | 115 |
| 120 | 71.5 | 509.2 | 138,800 |      |       |         |      |       |         | 120 |
| 125 | 70.4 | 507.4 | 138,300 | 72.3 | 509.4 | 138,500 |      |       |         | 125 |
| 130 | 69.3 | 505.4 | 138,000 | 71.2 | 507.6 | 138,500 |      |       |         | 130 |
| 135 | 68.1 | 503.4 | 137,400 | 70.0 | 505.8 | 138,400 |      |       |         | 135 |
| 140 | 67.0 | 501.2 | 136,500 | 68.9 | 503.8 | 138,300 |      |       |         | 140 |
| 145 | 65.8 | 498.9 | 135,800 | 67.8 | 501.7 | 138,000 |      |       |         | 145 |
| 150 | 64.7 | 496.5 | 135,000 | 66.6 | 499.5 | 137,700 | 69.5 | 502.8 | 135,200 | 150 |
| 155 | 63.5 | 494.0 | 134,200 | 65.5 | 497.2 | 137,300 | 68.4 | 500.8 | 135,200 | 155 |
| 160 | 62.3 | 491.3 | 133,400 | 64.3 | 494.8 | 136,800 | 67.2 | 498.6 | 135,200 | 160 |
| 165 | 61.1 | 488.5 | 132,500 | 63.1 | 492.2 | 136,300 | 66.1 | 496.4 | 135,200 | 165 |
| 170 | 59.9 | 485.6 | 129,100 | 61.9 | 489.5 | 135,800 | 64.9 | 494.0 | 135,200 | 170 |
| 175 | 58.6 | 482.5 | 125,700 | 60.7 | 486.6 | 135,200 | 63.7 | 491.5 | 135,200 | 175 |
| 180 | 57.4 | 479.3 | 122,300 | 59.5 | 483.6 | 134,600 | 62.5 | 488.8 | 135,200 | 180 |
| 185 | 56.1 | 475.9 | 119,000 | 58.2 | 480.5 | 134,000 | 61.3 | 486.1 | 130,200 | 185 |
| 190 | 54.8 | 472.3 | 115,600 | 57.0 | 477.2 | 133,100 | 60.1 | 483.2 | 125,200 | 190 |
| 195 | 53.5 | 468.6 | 112,300 | 55.7 | 473.8 | 129,800 | 58.9 | 480.1 | 120,500 | 195 |
| 200 | 52.2 | 464.6 | 109,100 | 54.4 | 470.2 | 125,800 | 57.6 | 476.9 | 116,000 | 200 |
| 205 | 50.8 | 460.5 | 105,900 | 53.1 | 466.4 | 121,300 | 56.4 | 473.5 | 111,800 | 205 |
| 210 | 49.4 | 456.2 | 102,700 | 51.7 | 462.4 | 117,000 | 55.1 | 470.0 | 107,700 | 210 |
| 215 | 48.0 | 451.7 | 99,700  | 50.4 | 458.2 | 112,900 | 53.8 | 466.3 | 103,900 | 215 |
| 220 | 46.5 | 446.9 | 96,800  | 49.0 | 453.8 | 109,000 | 52.4 | 462.4 | 100,200 | 220 |
| 225 | 45.0 | 441.9 | 93,900  | 47.5 | 449.2 | 105,300 | 51.1 | 458.3 | 96,700  | 225 |
| 230 | 43.5 | 436.6 | 91,100  | 46.1 | 444.3 | 101,800 | 49.7 | 454.0 | 93,300  | 230 |
| 240 | 40.3 | 425.0 | 86,000  | 43.0 | 433.8 | 95,100  | 46.8 | 444.8 | 87,000  | 240 |
| 250 | 36.8 | 412.1 | 81,400  | 39.8 | 422.1 | 89,000  | 43.8 | 434.6 | 81,300  | 250 |
| 260 | 33.1 | 397.3 | 77,300  | 36.3 | 408.9 | 83,300  | 40.6 | 423.2 | 75,900  | 260 |
| 270 | 28.9 | 380.0 | 73,800  | 32.5 | 393.7 | 78,100  | 37.2 | 410.4 | 71,000  | 270 |
| 280 | 24.0 | 359.0 | 71,300  | 28.2 | 376.0 | 73,200  | 33.5 | 395.8 | 66,400  | 280 |
| 290 | 17.8 | 331.5 | 70,000  | 23.1 | 354.2 | 68,600  | 29.3 | 378.8 | 62,100  | 290 |
| 300 | 7.4  | 283.1 | 68,300  | 16.7 | 325.1 | 64,200  | 24.5 | 358.3 | 58,000  | 300 |
| 310 |      |       |         | 3.0  | 261.2 | 59,900  | 18.5 | 331.7 | 54,200  | 310 |
| 320 |      |       |         |      |       |         | 9.1  | 287.9 | 50,400  | 320 |
| 330 |      |       |         |      |       |         |      |       |         | 330 |
| 340 |      |       |         |      |       |         |      |       |         | 340 |
| 350 |      |       |         |      |       |         |      |       |         | 350 |

# MLC650 VPC-MAX S-1

ASME B30.5



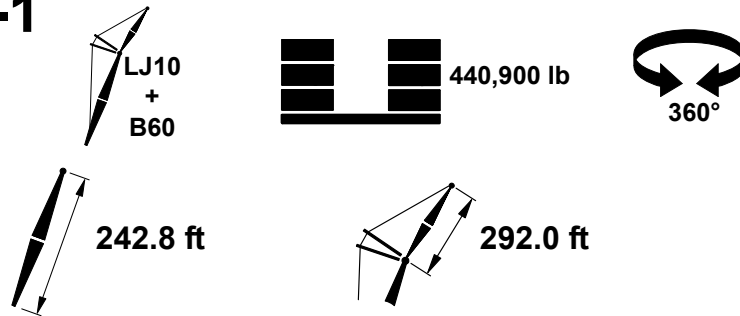
440,900 lb



|     | 75°  |       |         | 70°  |       |        |     |
|-----|------|-------|---------|------|-------|--------|-----|
|     |      |       |         |      |       |        |     |
|     | ft   | °     | ft      | lb   | °     | ft     | lb  |
| 105 |      |       |         |      |       |        | 105 |
| 110 |      |       |         |      |       |        | 110 |
| 115 |      |       |         |      |       |        | 115 |
| 120 |      |       |         |      |       |        | 120 |
| 125 |      |       |         |      |       |        | 125 |
| 130 |      |       |         |      |       |        | 130 |
| 135 |      |       |         |      |       |        | 135 |
| 140 |      |       |         |      |       |        | 140 |
| 145 |      |       |         |      |       |        | 145 |
| 150 |      |       |         |      |       |        | 150 |
| 155 |      |       |         |      |       |        | 155 |
| 160 |      |       |         |      |       |        | 160 |
| 165 |      |       |         |      |       |        | 165 |
| 170 |      |       |         |      |       |        | 170 |
| 175 |      |       |         |      |       |        | 175 |
| 180 |      |       |         |      |       |        | 180 |
| 185 |      |       |         |      |       |        | 185 |
| 190 |      |       |         |      |       |        | 190 |
| 195 | 63.9 | 487.0 | 104,000 |      |       |        | 195 |
| 200 | 62.7 | 484.3 | 99,900  |      |       |        | 200 |
| 205 | 61.5 | 481.6 | 96,100  |      |       |        | 205 |
| 210 | 60.3 | 478.7 | 92,500  |      |       |        | 210 |
| 215 | 59.0 | 475.6 | 89,000  |      |       |        | 215 |
| 220 | 57.8 | 472.5 | 85,700  |      |       |        | 220 |
| 225 | 56.5 | 469.1 | 82,500  |      |       |        | 225 |
| 230 | 55.2 | 465.6 | 79,500  |      |       |        | 230 |
| 240 | 52.6 | 458.1 | 73,800  | 57.8 | 465.9 | 60,800 | 240 |
| 250 | 49.9 | 449.8 | 68,600  | 55.3 | 459.1 | 56,100 | 250 |
| 260 | 47.0 | 440.6 | 63,700  | 52.6 | 451.5 | 51,800 | 260 |
| 270 | 44.0 | 430.5 | 59,300  | 49.9 | 443.3 | 47,800 | 270 |
| 280 | 40.8 | 419.1 | 55,100  | 47.1 | 434.1 | 44,100 | 280 |
| 290 | 37.4 | 406.4 | 51,200  | 44.1 | 424.0 | 40,600 | 290 |
| 300 | 33.7 | 392.0 | 47,600  | 40.9 | 412.7 | 37,400 | 300 |
| 310 | 29.6 | 375.2 | 44,200  | 37.5 | 400.0 | 34,300 | 310 |
| 320 | 24.9 | 354.9 | 40,900  | 33.8 | 385.6 | 31,500 | 320 |
| 330 | 19.0 | 328.9 | 37,800  | 29.7 | 368.8 | 28,500 | 330 |
| 340 | 10.0 | 287.5 | 34,800  | 25.0 | 348.6 | 25,500 | 340 |
| 350 |      |       |         | 19.1 | 322.7 | 22,600 | 350 |

# MLC650 VPC-MAX S-1

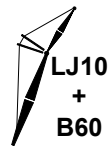
ASME B30.5



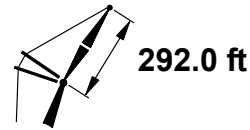
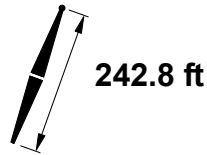
|     | 85°  |       |         | 83°  |       |         | 80°  |       |         |     |
|-----|------|-------|---------|------|-------|---------|------|-------|---------|-----|
|     |      |       |         |      |       |         |      |       |         |     |
|     | ft   | °     | ft      | lb   | °     | ft      | lb   | °     | ft      | lb  |
| 110 | 74.9 | 533.0 | 121,300 |      |       |         |      |       |         | 110 |
| 115 | 73.8 | 531.6 | 120,800 |      |       |         |      |       |         | 115 |
| 120 | 72.8 | 530.0 | 120,700 |      |       |         |      |       |         | 120 |
| 125 | 71.8 | 528.3 | 120,100 |      |       |         |      |       |         | 125 |
| 130 | 70.7 | 526.5 | 119,700 | 72.5 | 528.5 | 119,600 |      |       |         | 130 |
| 135 | 69.7 | 524.6 | 119,200 | 71.4 | 526.7 | 119,600 |      |       |         | 135 |
| 140 | 68.6 | 522.6 | 118,700 | 70.4 | 524.9 | 119,400 |      |       |         | 140 |
| 145 | 67.6 | 520.5 | 118,100 | 69.3 | 523.0 | 119,200 |      |       |         | 145 |
| 150 | 66.5 | 518.3 | 117,500 | 68.3 | 521.0 | 119,000 |      |       |         | 150 |
| 155 | 65.4 | 516.0 | 116,800 | 67.2 | 518.8 | 118,600 | 69.9 | 522.0 | 116,100 | 155 |
| 160 | 64.3 | 513.6 | 116,100 | 66.1 | 516.6 | 118,300 | 68.8 | 520.0 | 116,100 | 160 |
| 165 | 63.2 | 511.0 | 115,400 | 65.1 | 514.2 | 117,900 | 67.8 | 517.9 | 116,100 | 165 |
| 170 | 62.1 | 508.3 | 114,700 | 64.0 | 511.8 | 117,400 | 66.7 | 515.7 | 116,100 | 170 |
| 175 | 61.0 | 505.5 | 113,900 | 62.9 | 509.2 | 116,900 | 65.6 | 513.4 | 116,100 | 175 |
| 180 | 59.8 | 502.6 | 112,800 | 61.7 | 506.4 | 116,400 | 64.5 | 511.0 | 116,100 | 180 |
| 185 | 58.7 | 499.5 | 110,000 | 60.6 | 503.6 | 115,900 | 63.4 | 508.5 | 116,100 | 185 |
| 190 | 57.5 | 496.3 | 107,300 | 59.5 | 500.6 | 115,300 | 62.3 | 505.8 | 116,100 | 190 |
| 195 | 56.3 | 492.9 | 104,500 | 58.3 | 497.5 | 114,800 | 61.2 | 503.0 | 116,100 | 195 |
| 200 | 55.1 | 489.4 | 101,800 | 57.1 | 494.2 | 114,200 | 60.1 | 500.1 | 112,800 | 200 |
| 205 | 53.9 | 485.7 | 99,000  | 56.0 | 490.8 | 113,600 | 58.9 | 497.1 | 108,600 | 205 |
| 210 | 52.7 | 481.8 | 96,300  | 54.7 | 487.2 | 111,400 | 57.7 | 493.9 | 104,500 | 210 |
| 215 | 51.4 | 477.8 | 93,700  | 53.5 | 483.5 | 108,700 | 56.6 | 490.5 | 100,700 | 215 |
| 220 | 50.1 | 473.6 | 91,100  | 52.3 | 479.6 | 106,000 | 55.4 | 487.0 | 97,100  | 220 |
| 225 | 48.8 | 469.2 | 88,500  | 51.0 | 475.5 | 102,300 | 54.2 | 483.4 | 93,600  | 225 |
| 230 | 47.5 | 464.6 | 86,000  | 49.7 | 471.2 | 98,800  | 52.9 | 479.6 | 90,200  | 230 |
| 240 | 44.7 | 454.7 | 81,300  | 47.1 | 462.1 | 92,200  | 50.4 | 471.4 | 84,000  | 240 |
| 250 | 41.8 | 443.7 | 76,800  | 44.3 | 452.0 | 86,100  | 47.8 | 462.5 | 78,300  | 250 |
| 260 | 38.7 | 431.5 | 72,700  | 41.3 | 440.9 | 80,500  | 45.0 | 452.7 | 73,000  | 260 |
| 270 | 35.4 | 417.9 | 69,000  | 38.2 | 428.5 | 75,300  | 42.1 | 441.8 | 68,000  | 270 |
| 280 | 31.8 | 402.3 | 65,800  | 34.9 | 414.6 | 70,400  | 39.0 | 429.8 | 63,500  | 280 |
| 290 | 27.7 | 384.1 | 63,100  | 31.2 | 398.6 | 65,900  | 35.7 | 416.3 | 59,200  | 290 |
| 300 | 23.0 | 362.2 | 61,100  | 27.0 | 380.0 | 61,700  | 32.1 | 400.9 | 55,200  | 300 |
| 310 | 17.0 | 333.2 | 60,200  | 22.1 | 357.2 | 57,700  | 28.1 | 383.1 | 51,500  | 310 |
| 320 | 6.5  | 281.2 | 56,300  | 15.8 | 326.6 | 53,900  | 23.5 | 361.6 | 47,900  | 320 |
| 330 |      |       |         |      |       |         | 17.7 | 333.6 | 44,600  | 330 |
| 340 |      |       |         |      |       |         | 8.3  | 287.0 | 41,200  | 340 |
| 350 |      |       |         |      |       |         |      |       |         | 350 |
| 360 |      |       |         |      |       |         |      |       |         | 360 |

# MLC650 VPC-MAX S-1

ASME B30.5



440,900 lb



|     | 75°  |       |        | 70°  |       |        |     |
|-----|------|-------|--------|------|-------|--------|-----|
|     |      |       |        |      |       |        |     |
|     | ft   | °     | ft     | lb   | °     | ft     | lb  |
| 110 |      |       |        |      |       |        | 110 |
| 115 |      |       |        |      |       |        | 115 |
| 120 |      |       |        |      |       |        | 120 |
| 125 |      |       |        |      |       |        | 125 |
| 130 |      |       |        |      |       |        | 130 |
| 135 |      |       |        |      |       |        | 135 |
| 140 |      |       |        |      |       |        | 140 |
| 145 |      |       |        |      |       |        | 145 |
| 150 |      |       |        |      |       |        | 150 |
| 155 |      |       |        |      |       |        | 155 |
| 160 |      |       |        |      |       |        | 160 |
| 165 |      |       |        |      |       |        | 165 |
| 170 |      |       |        |      |       |        | 170 |
| 175 |      |       |        |      |       |        | 175 |
| 180 |      |       |        |      |       |        | 180 |
| 185 |      |       |        |      |       |        | 185 |
| 190 |      |       |        |      |       |        | 190 |
| 195 |      |       |        |      |       |        | 195 |
| 200 | 64.7 | 506.5 | 96,500 |      |       |        | 200 |
| 205 | 63.6 | 503.9 | 92,700 |      |       |        | 205 |
| 210 | 62.5 | 501.3 | 89,000 |      |       |        | 210 |
| 215 | 61.3 | 498.5 | 85,600 |      |       |        | 215 |
| 220 | 60.2 | 495.6 | 82,300 |      |       |        | 220 |
| 225 | 59.1 | 492.6 | 79,200 |      |       |        | 225 |
| 230 | 57.9 | 489.4 | 76,100 |      |       |        | 230 |
| 240 | 55.5 | 482.7 | 70,500 |      |       |        | 240 |
| 250 | 53.1 | 475.2 | 65,300 | 57.9 | 482.9 | 52,700 | 250 |
| 260 | 50.6 | 467.1 | 60,600 | 55.6 | 476.1 | 48,400 | 260 |
| 270 | 47.9 | 458.2 | 56,100 | 53.1 | 468.7 | 44,500 | 270 |
| 280 | 45.2 | 448.5 | 52,000 | 50.6 | 460.6 | 40,800 | 280 |
| 290 | 42.3 | 437.7 | 48,200 | 48.0 | 451.7 | 37,400 | 290 |
| 300 | 39.3 | 425.7 | 44,600 | 45.2 | 442.0 | 34,000 | 300 |
| 310 | 36.0 | 412.4 | 41,200 | 42.4 | 431.2 | 30,600 | 310 |
| 320 | 32.4 | 397.1 | 38,100 | 39.3 | 419.3 | 27,300 | 320 |
| 330 | 28.4 | 379.5 | 35,100 | 36.0 | 405.9 | 24,200 | 330 |
| 340 | 23.8 | 358.3 | 32,200 | 32.5 | 390.8 | 21,300 | 340 |
| 350 | 18.1 | 330.9 | 29,500 |      |       |        | 350 |
| 360 | 9.2  | 286.9 | 26,700 |      |       |        | 360 |