

Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. B65:505-500
Luffing Jib No. LJ11:500-501
with Mast No. M11:503
474,100 lb VPC (Variable Position Counterweight)
360 Degree Rating

MLC300
VPC-MAX
SERIES 3



LIFTING CAPACITIES: Lifting capacities for various boom lengths, luffing jib lengths, boom-to-luffing jib angles, and boom 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.

Weight of all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom point sheaves, is considered part of load. Weight of luffing jib and 11,000 lb suspended beneath luffing jib point sheaves have been included in capacity determination. Boom is not to be lowered beyond radii where combined weights are greater than rated capacity. Where no capacity is shown, operation is not intended or approved.

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. During operation, luffing jib must be maintained at proper boom-to-luffing jib angle shown in table. Refer to Luffing Jib Rigging **No. 84050217**, Mast Rigging **No. 84045340**, Wire Rope Specifications chart **No. 9732-A**, Counterweight Arrangements chart **No. 9345-A**, Luffing Jib Raising Procedure chart **No. 9665-A**, and Wind Conditions chart **No. 9667-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. 9666-A**.



OPERATING RADIUS: Operating radius is horizontal distance from axis of rotation to center of vertical hoist line or load block.



BOOM ANGLE: Boom angle in degrees (°) is angle between horizontal and centerline of boom butt and inserts, and is an indication of operating radius. In all cases, operating radius shall govern capacity.



BOOM POINT ELEVATION: Boom point elevation is vertical distance from ground level to centerline of boom point shaft.

MACHINE EQUIPMENT: Machine equipped with VPC-MAX, 31 ft 10 in. crawlers, 48 in. or 60 in. treads, 30 ft live mast, 98.4 ft mast, 10 part boom hoist reeving, boom support straps, 14 part luffing jib hoist reeving, luffing jib and backstay support straps, and 474,100 lb VPC.

Select counterweight position from Luffing Jib Raising Procedure chart **No. 9665-A** that will allow raising and lowering of boom and luffing jib length. Counterweight position selection may be changed with boom and luffing jib on ground or while boom and luffing jib are within operating range of capacity chart.

Consult Chart **No. 9658-A** for luffing jib capacities.

Luffing Jib Position During Operation	
Luffing Jib Length Feet	Boom-to-Luffing Jib Angle Degrees
78.7 - 98.4	140
118.1 - 157.5	155
177.2 - 275.6	169

Explanation of Symbols



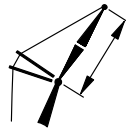
Luffing Jib No. LJ11:500-501
+
Boom No. B65:505-500



VPC (Variable Position Counterweight)



360 Degree Rating



Luffing Jib Length



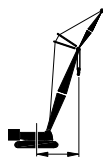
Boom-to-Luffing Jib Angle



Boom Length

REFERENCE ONLY!

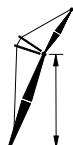
Explanation of Symbols
(continued)



Operating Radius
(see page 1)



Boom Angle
(see page 1)



Boom Point Elevation
(see page 1)



Counterweight Position
from Axis of Rotation

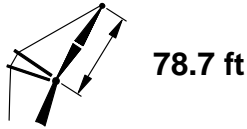


Lifting Capacities
(see page 1)

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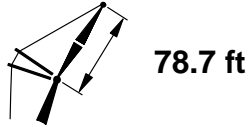


177.2 ft				
ft	°	ft	lb	lb
24	85.0	183.3	556,800	556,800
26	84.3	183.1	555,700	555,700
28	83.7	182.8	554,700	554,700
30	83.0	182.6	553,700	553,700
32	82.4	182.3	552,700	552,700
34	81.7	182.0	551,800	551,800
36	81.1	181.6	536,500	536,500
38	80.4	181.2	521,200	521,200
40	79.8	180.9	506,500	506,500
45	78.1	179.8	472,600	472,600
50	76.4	178.5	421,700	421,700
55	74.8	177.1	368,400	472,600
60	73.1	175.6	324,800	444,500
65	71.4	173.9	288,500	399,100
70	69.6	172.0	257,700	357,900
75	67.9	169.9	231,300	323,200
80	66.1	167.7	208,500	293,500
85	64.3	165.3	188,500	267,900
90	62.5	162.6	170,900	245,500
95	60.6	159.8	155,200	225,900
100	58.7	156.7	141,200	208,400
105	56.8	153.4	128,500	192,800
110	54.8	149.9	117,100	178,800
115	52.8	146.1	106,700	166,100
120	50.7	142.0	97,200	154,600
125	48.5	137.5	88,500	144,200
130	46.3	132.7	80,500	134,600
135	44.0	127.6	73,200	125,700
140	41.5	121.9	66,300	117,600

196.9 ft				
ft	°	ft	lb	lb
26	84.9	202.9	501,900	501,900
28	84.3	202.7	500,900	500,900
30	83.7	202.4	499,700	499,700
32	83.2	202.2	498,600	498,600
34	82.6	201.9	497,400	497,400
36	82.0	201.6	496,300	496,300
38	81.4	201.2	495,100	495,100
40	80.8	200.9	484,100	484,100
45	79.3	199.9	453,000	453,000
50	77.8	198.8	421,400	430,300
55	76.3	197.6	368,000	430,300
60	74.8	196.2	324,300	430,300
65	73.3	194.7	287,900	399,000
70	71.8	193.0	257,100	357,800
75	70.2	191.2	230,700	323,000
80	68.6	189.2	207,800	293,300
85	67.1	187.0	187,800	267,600
90	65.5	184.7	170,100	245,200
95	63.8	182.3	154,400	225,500
100	62.2	179.6	140,300	208,000
105	60.5	176.7	127,600	192,300
110	58.8	173.7	116,200	178,300
115	57.1	170.4	105,700	165,600
120	55.3	167.0	96,200	154,100
125	53.5	163.2	87,500	143,500
130	51.6	159.3	79,500	133,900
135	49.7	155.0	72,100	125,100
140	47.7	150.5	65,200	116,900
145	45.7	145.6	58,800	109,400
150	43.6	140.3	52,900	102,400

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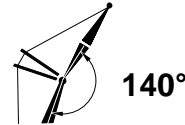
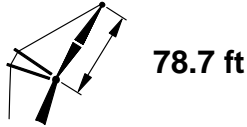


216.5 ft				
ft	°	ft	34.8 ft lb	48.0 ft lb
28	84.8	222.5	447,900	447,900
30	84.3	222.3	447,900	447,900
32	83.8	222.0	447,900	447,900
34	83.2	221.8	447,900	447,900
36	82.7	221.5	447,100	447,100
38	82.2	221.2	445,800	445,800
40	81.6	220.9	444,500	444,500
45	80.3	220.0	433,000	433,000
50	79.0	219.0	407,100	407,100
55	77.6	217.9	367,200	407,100
60	76.2	216.6	323,400	407,100
65	74.9	215.2	287,000	398,700
70	73.5	213.7	256,100	357,300
75	72.1	212.1	229,700	322,500
80	70.7	210.3	206,700	292,700
85	69.3	208.4	186,700	267,000
90	67.8	206.3	168,900	244,600
95	66.4	204.1	153,200	224,800
100	64.9	201.8	139,100	207,300
105	63.4	199.2	126,400	191,600
110	61.9	196.6	114,900	177,500
115	60.4	193.7	104,500	164,800
120	58.9	190.7	95,000	153,300
125	57.3	187.4	86,200	142,700
130	55.7	184.0	78,200	133,100
135	54.1	180.4	70,800	124,200
140	52.4	176.5	63,900	116,000
145	50.7	172.4	57,500	108,500
150	48.9	168.0	51,500	101,500
160	45.2	158.4	40,800	88,800
170	41.3	147.4	31,300	77,800

236.2 ft				
ft	°	ft	34.8 ft lb	48.0 ft lb
30	84.8	242.1	392,000	392,000
32	84.3	241.8	392,000	392,000
34	83.8	241.6	392,000	392,000
36	83.3	241.3	392,000	392,000
38	82.8	241.1	392,000	392,000
40	82.3	240.8	392,000	392,000
45	81.1	240.0	392,000	392,000
50	79.9	239.1	388,900	388,900
55	78.6	238.0	366,200	368,500
60	77.4	236.9	322,300	368,500
65	76.2	235.6	285,800	365,800
70	74.9	234.3	254,900	356,700
75	73.6	232.8	228,400	321,800
80	72.4	231.2	205,400	292,000
85	71.1	229.4	185,300	266,200
90	69.8	227.6	167,500	243,700
95	68.5	225.6	151,800	223,900
100	67.2	223.5	137,700	206,400
105	65.8	221.2	124,900	190,700
110	64.5	218.8	113,400	176,600
115	63.1	216.2	103,000	163,800
120	61.7	213.5	93,400	152,300
125	60.3	210.6	84,700	141,700
130	58.9	207.6	76,600	132,000
135	57.5	204.4	69,200	123,200
140	56.0	201.0	62,300	115,000
145	54.5	197.4	55,900	107,400
150	53.0	193.7	49,900	100,400
160	49.9	185.4	39,100	87,700
170	46.6	176.2	29,700	76,600
180	43.1	165.9	21,200	66,900

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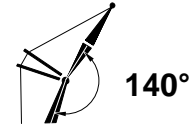
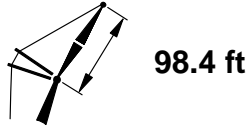


ft	°	ft	lb	lb
32	84.7	261.6	343,800	343,800
34	84.3	261.4	343,800	343,800
36	83.8	261.2	343,800	343,800
38	83.4	260.9	343,800	343,800
40	82.9	260.7	343,800	343,800
45	81.8	259.9	343,800	343,800
50	80.7	259.1	343,800	343,800
55	79.5	258.1	340,500	340,500
60	78.4	257.1	321,300	332,600
65	77.2	255.9	284,700	324,800
70	76.1	254.7	253,800	316,600
75	74.9	253.3	227,200	306,000
80	73.8	251.8	204,200	291,300
85	72.6	250.3	184,100	265,500
90	71.4	248.5	166,300	243,000
95	70.2	246.7	150,500	223,200
100	69.0	244.8	136,400	205,600
105	67.8	242.7	123,700	189,900
110	66.6	240.5	112,100	175,800
115	65.3	238.2	101,700	163,000
120	64.1	235.8	92,100	151,400
125	62.8	233.2	83,300	140,800
130	61.6	230.5	75,300	131,200
135	60.3	227.6	67,800	122,300
140	59.0	224.6	60,900	114,100
145	57.6	221.4	54,500	106,500
150	56.3	218.0	48,500	99,400
160	53.5	210.8	37,700	86,700
170	50.7	202.8	28,200	75,700
180	47.7	193.9	19,800	65,900
190	44.5	184.0	12,300	57,200
200	41.2	172.9		49,400

ft	°	ft	lb	lb
34	84.7	281.2	302,000	302,000
36	84.3	281.0	302,000	302,000
38	83.9	280.8	302,000	302,000
40	83.4	280.5	302,000	302,000
45	82.4	279.8	302,000	302,000
50	81.3	279.1	302,000	302,000
55	80.3	278.2	302,000	302,000
60	79.2	277.2	295,800	295,800
65	78.2	276.1	283,100	286,000
70	77.1	275.0	252,100	276,300
75	76.0	273.7	225,500	266,300
80	75.0	272.4	202,500	255,900
85	73.9	270.9	182,300	244,700
90	72.8	269.3	164,500	233,900
95	71.7	267.7	148,700	222,000
100	70.6	265.9	134,500	204,400
105	69.5	264.0	121,800	188,600
110	68.3	262.0	110,300	174,500
115	67.2	259.9	99,800	161,700
120	66.1	257.6	90,200	150,100
125	64.9	255.3	81,400	139,500
130	63.8	252.8	73,300	129,800
135	62.6	250.2	65,900	120,900
140	61.4	247.4	58,900	112,700
145	60.2	244.6	52,500	105,100
150	59.0	241.5	46,500	98,000
160	56.5	235.0	35,700	85,300
170	54.0	227.9	26,200	74,200
180	51.3	220.1	17,800	64,400
190	48.6	211.4	10,300	55,700
200	45.7	201.9		48,000
210	42.7	191.4		41,000

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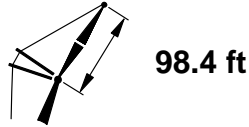



177.2 ft				
ft	°	ft	lb	lb
24	85.0	183.3	548,400	548,400
26	84.3	183.1	547,700	547,700
28	83.7	182.8	547,000	547,000
30	83.0	182.6	546,200	546,200
32	82.4	182.3	545,200	545,200
34	81.7	182.0	544,200	544,200
36	81.1	181.6	529,800	529,800
38	80.4	181.2	514,500	514,500
40	79.8	180.9	499,800	499,800
45	78.1	179.8	465,700	465,700
50	76.4	178.5	407,400	465,700
55	74.8	177.1	355,000	465,700
60	73.1	175.6	312,200	435,200
65	71.4	173.9	276,400	389,200
70	69.6	172.0	246,200	348,600
75	67.9	169.9	220,300	314,300
80	66.1	167.7	197,900	285,000
85	64.3	165.3	178,200	259,700
90	62.5	162.6	160,900	237,700
95	60.6	159.8	145,500	218,200
100	58.7	156.7	131,800	201,000
105	56.8	153.4	119,400	185,600
110	54.8	149.9	108,200	171,800
115	52.8	146.1	98,000	159,300
120	50.7	142.0	88,700	148,000
125	48.5	137.5	80,200	137,700
130	46.3	132.7	72,400	128,200
135	44.0	127.6	65,200	119,600
140	41.5	121.9	58,500	111,600


196.9 ft				
ft	°	ft	lb	lb
26	84.9	202.9	495,100	495,100
28	84.3	202.7	494,200	494,200
30	83.7	202.4	493,400	493,400
32	83.2	202.2	492,500	492,500
34	82.6	201.9	491,700	491,700
36	82.0	201.6	490,500	490,500
38	81.4	201.2	489,400	489,400
40	80.8	200.9	478,100	478,100
45	79.3	199.9	446,800	446,800
50	77.8	198.8	407,400	436,500
55	76.3	197.6	354,900	436,500
60	74.8	196.2	311,900	434,200
65	73.3	194.7	276,100	389,400
70	71.8	193.0	245,800	348,600
75	70.2	191.2	219,800	314,300
80	68.6	189.2	197,400	284,900
85	67.1	187.0	177,700	259,600
90	65.5	184.7	160,300	237,400
95	63.8	182.3	144,900	218,000
100	62.2	179.6	131,000	200,700
105	60.5	176.7	118,600	185,300
110	58.8	173.7	107,400	171,400
115	57.1	170.4	97,200	158,900
120	55.3	167.0	87,800	147,500
125	53.5	163.2	79,300	137,200
130	51.6	159.3	71,400	127,700
135	49.7	155.0	64,200	119,000
140	47.7	150.5	57,400	110,900
145	45.7	145.6	51,200	103,500
150	43.6	140.3	45,400	96,600

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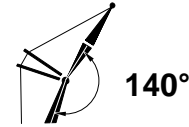
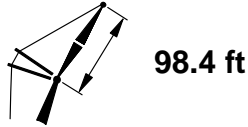


 216.5 ft				
ft	°	ft	lb	lb
28	84.8	222.5	442,900	442,900
30	84.3	222.3	442,900	442,900
32	83.8	222.0	442,900	442,900
34	83.2	221.8	442,900	442,900
36	82.7	221.5	442,000	442,000
38	82.2	221.2	441,000	441,000
40	81.6	220.9	440,000	440,000
45	80.3	220.0	427,300	427,300
50	79.0	219.0	401,300	401,300
55	77.6	217.9	354,200	401,300
60	76.2	216.6	311,200	401,300
65	74.9	215.2	275,300	389,200
70	73.5	213.7	245,000	348,300
75	72.1	212.1	219,000	313,900
80	70.7	210.3	196,400	284,500
85	69.3	208.4	176,700	259,100
90	67.8	206.3	159,300	236,900
95	66.4	204.1	143,800	217,400
100	64.9	201.8	130,000	200,100
105	63.4	199.2	117,500	184,600
110	61.9	196.6	106,300	170,800
115	60.4	193.7	96,000	158,200
120	58.9	190.7	86,700	146,800
125	57.3	187.4	78,100	136,400
130	55.7	184.0	70,200	126,900
135	54.1	180.4	62,900	118,200
140	52.4	176.5	56,200	110,100
145	50.7	172.4	49,900	102,700
150	48.9	168.0	44,100	95,700
160	45.2	158.4	33,600	83,300
170	41.3	147.4	24,400	72,500

 236.2 ft				
ft	°	ft	lb	lb
30	84.8	242.1	387,100	387,100
32	84.3	241.8	387,100	387,100
34	83.8	241.6	387,100	387,100
36	83.3	241.3	387,100	387,100
38	82.8	241.1	387,100	387,100
40	82.3	240.8	387,100	387,100
45	81.1	240.0	387,100	387,100
50	79.9	239.1	382,800	382,800
55	78.6	238.0	353,300	373,600
60	77.4	236.9	310,200	364,500
65	76.2	235.6	274,300	355,500
70	74.9	234.3	243,900	346,600
75	73.6	232.8	217,800	313,300
80	72.4	231.2	195,200	283,900
85	71.1	229.4	175,500	258,400
90	69.8	227.6	158,000	236,200
95	68.5	225.6	142,500	216,700
100	67.2	223.5	128,700	199,300
105	65.8	221.2	116,200	183,800
110	64.5	218.8	104,900	169,900
115	63.1	216.2	94,600	157,300
120	61.7	213.5	85,200	145,900
125	60.3	210.6	76,600	135,500
130	58.9	207.6	68,700	126,000
135	57.5	204.4	61,400	117,200
140	56.0	201.0	54,700	109,100
145	54.5	197.4	48,400	101,600
150	53.0	193.7	42,600	94,700
160	49.9	185.4	32,000	82,200
170	46.6	176.2	22,700	71,300
180	43.1	165.9	14,500	61,700

MLC300 VPC-MAX S-3

ASME B30.5

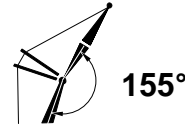
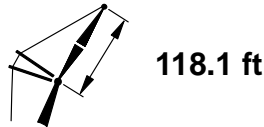


ft	°	ft	lb	lb
32	84.7	261.6	338,900	338,900
34	84.3	261.4	338,900	338,900
36	83.8	261.2	338,900	338,900
38	83.4	260.9	338,900	338,900
40	82.9	260.7	338,900	338,900
45	81.8	259.9	338,900	338,900
50	80.7	259.1	338,900	338,900
55	79.5	258.1	332,200	332,200
60	78.4	257.1	309,300	324,300
65	77.2	255.9	273,400	316,300
70	76.1	254.7	242,900	307,000
75	74.9	253.3	216,800	296,200
80	73.8	251.8	194,200	283,300
85	72.6	250.3	174,400	257,800
90	71.4	248.5	156,900	235,600
95	70.2	246.7	141,400	216,000
100	69.0	244.8	127,500	198,600
105	67.8	242.7	115,000	183,100
110	66.6	240.5	103,700	169,200
115	65.3	238.2	93,400	156,600
120	64.1	235.8	84,000	145,100
125	62.8	233.2	75,400	134,700
130	61.6	230.5	67,500	125,100
135	60.3	227.6	60,200	116,400
140	59.0	224.6	53,400	108,300
145	57.6	221.4	47,100	100,800
150	56.3	218.0	41,200	93,800
160	53.5	210.8	30,700	81,300
170	50.7	202.8	21,400	70,400
180	47.7	193.9	13,100	60,800
190	44.5	184.0		52,200
200	41.2	172.9		44,600

ft	°	ft	lb	lb
34	84.7	281.2	297,100	297,100
36	84.3	281.0	297,100	297,100
38	83.9	280.8	297,100	297,100
40	83.4	280.5	297,100	297,100
45	82.4	279.8	297,100	297,100
50	81.3	279.1	297,100	297,100
55	80.3	278.2	294,600	294,600
60	79.2	277.2	286,400	286,400
65	78.2	276.1	271,900	276,500
70	77.1	275.0	241,400	266,700
75	76.0	273.7	215,200	256,500
80	75.0	272.4	192,600	245,500
85	73.9	270.9	172,700	234,400
90	72.8	269.3	155,200	223,700
95	71.7	267.7	139,700	213,200
100	70.6	265.9	125,800	197,500
105	69.5	264.0	113,200	182,000
110	68.3	262.0	101,900	168,000
115	67.2	259.9	91,600	155,400
120	66.1	257.6	82,200	143,900
125	64.9	255.3	73,600	133,400
130	63.8	252.8	65,600	123,900
135	62.6	250.2	58,300	115,100
140	61.4	247.4	51,500	107,000
145	60.2	244.6	45,200	99,500
150	59.0	241.5	39,300	92,500
160	56.5	235.0	28,700	80,000
170	54.0	227.9	19,400	69,000
180	51.3	220.1	11,100	59,400
190	48.6	211.4		50,800
200	45.7	201.9		43,100
210	42.7	191.4		36,200

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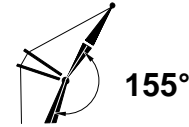
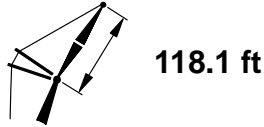


177.2 ft				
ft	°	ft	lb	lb
24	85.0	183.3	545,300	545,300
26	84.3	183.1	544,500	544,500
28	83.7	182.8	543,400	543,400
30	83.0	182.6	542,300	542,300
32	82.4	182.3	541,100	541,100
34	81.7	182.0	540,000	540,000
36	81.1	181.6	528,200	528,200
38	80.4	181.2	512,500	512,500
40	79.8	180.9	497,500	497,500
45	78.1	179.8	462,700	462,700
50	76.4	178.5	402,000	462,700
55	74.8	177.1	348,900	462,700
60	73.1	175.6	305,500	430,000
65	71.4	173.9	269,300	383,800
70	69.6	172.0	238,700	342,800
75	67.9	169.9	212,400	308,200
80	66.1	167.7	189,700	278,700
85	64.3	165.3	169,700	253,200
90	62.5	162.6	152,200	230,900
95	60.6	159.8	136,600	211,300
100	58.7	156.7	122,600	193,900
105	56.8	153.4	110,000	178,400
110	54.8	149.9	98,600	164,500
115	52.8	146.1	88,300	151,900
120	50.7	142.0	78,800	140,400
125	48.5	137.5	70,200	130,000
130	46.3	132.7	62,200	120,500
135	44.0	127.6	54,900	111,700
140	41.5	121.9	48,100	103,600
145	39.0	115.8	41,800	96,100
150	36.2	109.0	35,900	89,200
160	30.1	93.0	25,300	76,700

196.9 ft				
ft	°	ft	lb	lb
26	84.9	202.9	491,000	491,000
28	84.3	202.7	490,100	490,100
30	83.7	202.4	489,100	489,100
32	83.2	202.2	488,300	488,300
34	82.6	201.9	487,000	487,000
36	82.0	201.6	485,900	485,900
38	81.4	201.2	484,700	484,700
40	80.8	200.9	476,400	476,400
45	79.3	199.9	444,400	444,400
50	77.8	198.8	402,600	436,600
55	76.3	197.6	349,400	436,600
60	74.8	196.2	305,900	429,300
65	73.3	194.7	269,600	384,500
70	71.8	193.0	238,900	343,400
75	70.2	191.2	212,600	308,700
80	68.6	189.2	189,800	279,100
85	67.1	187.0	169,900	253,600
90	65.5	184.7	152,200	231,300
95	63.8	182.3	136,600	211,600
100	62.2	179.6	122,600	194,200
105	60.5	176.7	110,000	178,600
110	58.8	173.7	98,500	164,600
115	57.1	170.4	88,200	152,000
120	55.3	167.0	78,700	140,500
125	53.5	163.2	70,000	130,100
130	51.6	159.3	62,000	120,500
135	49.7	155.0	54,700	111,700
140	47.7	150.5	47,800	103,600
145	45.7	145.6	41,500	96,100
150	43.6	140.3	35,600	89,100
160	39.1	128.5	24,900	76,600
170	34.1	114.6	15,600	65,600
180	28.3	97.4		56,000

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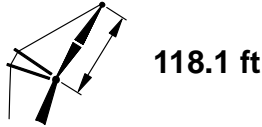


ft	°	ft	lb	lb
28	84.8	222.5	438,500	438,500
30	84.3	222.3	438,500	438,500
32	83.8	222.0	438,500	438,500
34	83.2	221.8	438,100	438,100
36	82.7	221.5	437,100	437,100
38	82.2	221.2	436,200	436,200
40	81.6	220.9	435,000	435,000
45	80.3	220.0	425,400	425,400
50	79.0	219.0	398,700	398,700
55	77.6	217.9	349,300	398,700
60	76.2	216.6	305,700	398,700
65	74.9	215.2	269,400	384,700
70	73.5	213.7	238,600	343,500
75	72.1	212.1	212,300	308,800
80	70.7	210.3	189,400	279,200
85	69.3	208.4	169,500	253,600
90	67.8	206.3	151,800	231,200
95	66.4	204.1	136,100	211,500
100	64.9	201.8	122,100	194,100
105	63.4	199.2	109,500	178,500
110	61.9	196.6	98,000	164,500
115	60.4	193.7	87,600	151,800
120	58.9	190.7	78,200	140,300
125	57.3	187.4	69,400	129,800
130	55.7	184.0	61,400	120,200
135	54.1	180.4	54,000	111,400
140	52.4	176.5	47,200	103,300
145	50.7	172.4	40,800	95,700
150	48.9	168.0	34,900	88,700
160	45.2	158.4	24,200	76,200
170	41.3	147.4	14,800	65,200
180	37.0	134.7		55,500
190	32.3	119.7		46,900
200	26.7	101.4		39,200

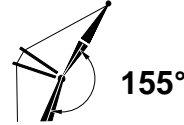
ft	°	ft	lb	lb
30	84.8	242.1	382,500	382,500
32	84.3	241.8	382,500	382,500
34	83.8	241.6	382,500	382,500
36	83.3	241.3	382,500	382,500
38	82.8	241.1	382,500	382,500
40	82.3	240.8	382,500	382,500
45	81.1	240.0	382,500	382,500
50	79.9	239.1	379,300	379,300
55	78.6	238.0	348,800	370,000
60	77.4	236.9	305,200	360,800
65	76.2	235.6	268,800	351,600
70	74.9	234.3	238,000	342,600
75	73.6	232.8	211,600	308,600
80	72.4	231.2	188,700	278,900
85	71.1	229.4	168,700	253,300
90	69.8	227.6	151,000	230,900
95	68.5	225.6	135,300	211,100
100	67.2	223.5	121,200	193,700
105	65.8	221.2	108,600	178,000
110	64.5	218.8	97,100	164,000
115	63.1	216.2	86,700	151,300
120	61.7	213.5	77,200	139,800
125	60.3	210.6	68,500	129,300
130	58.9	207.6	60,500	119,600
135	57.5	204.4	53,000	110,800
140	56.0	201.0	46,200	102,600
145	54.5	197.4	39,800	95,100
150	53.0	193.7	33,900	88,100
160	49.9	185.4	23,200	75,500
170	46.6	176.2	13,700	64,500
180	43.1	165.9		54,800
190	39.3	154.1		46,100
200	35.2	140.5		38,400
210	30.7	124.6		31,500
220	25.4	105.1		23,800

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118.1 ft



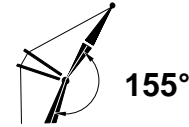
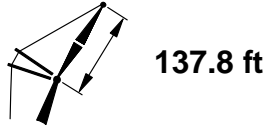
155°

255.9 ft				
ft	°	ft	lb	lb
32	84.7	261.6	334,100	334,100
34	84.3	261.4	334,100	334,100
36	83.8	261.2	334,100	334,100
38	83.4	260.9	334,100	334,100
40	82.9	260.7	334,100	334,100
45	81.8	259.9	334,100	334,100
50	80.7	259.1	334,100	334,100
55	79.5	258.1	328,600	328,600
60	78.4	257.1	304,700	320,500
65	77.2	255.9	268,200	312,500
70	76.1	254.7	237,400	303,600
75	74.9	253.3	210,900	292,800
80	73.8	251.8	188,000	278,700
85	72.6	250.3	168,000	253,000
90	71.4	248.5	150,300	230,500
95	70.2	246.7	134,500	210,800
100	69.0	244.8	120,500	193,300
105	67.8	242.7	107,800	177,600
110	66.6	240.5	96,300	163,600
115	65.3	238.2	85,900	150,900
120	64.1	235.8	76,400	139,300
125	62.8	233.2	67,600	128,800
130	61.6	230.5	59,600	119,200
135	60.3	227.6	52,200	110,300
140	59.0	224.6	45,300	102,100
145	57.6	221.4	38,900	94,600
150	56.3	218.0	33,000	87,500
160	53.5	210.8	22,200	74,900
170	50.7	202.8	12,800	63,900
180	47.7	193.9		54,200
190	44.5	184.0		45,500
200	41.2	172.9		37,800
210	37.6	160.4		30,800
220	33.7	146.0		24,500
230	29.3	129.1		18,500

275.6 ft				
ft	°	ft	lb	lb
34	84.7	281.2	292,200	292,200
36	84.3	281.0	292,200	292,200
38	83.9	280.8	292,200	292,200
40	83.4	280.5	292,200	292,200
45	82.4	279.8	292,200	292,200
50	81.3	279.1	292,200	292,200
55	80.3	278.2	290,900	290,900
60	79.2	277.2	283,300	283,300
65	78.2	276.1	267,000	273,400
70	77.1	275.0	236,200	263,400
75	76.0	273.7	209,700	253,300
80	75.0	272.4	186,700	242,400
85	73.9	270.9	166,600	231,100
90	72.8	269.3	148,900	220,100
95	71.7	267.7	133,200	209,400
100	70.6	265.9	119,100	192,400
105	69.5	264.0	106,400	176,700
110	68.3	262.0	94,900	162,700
115	67.2	259.9	84,400	149,900
120	66.1	257.6	74,900	138,400
125	64.9	255.3	66,100	127,800
130	63.8	252.8	58,100	118,200
135	62.6	250.2	50,700	109,300
140	61.4	247.4	43,800	101,100
145	60.2	244.6	37,400	93,500
150	59.0	241.5	31,400	86,500
160	56.5	235.0	20,700	73,900
170	54.0	227.9	11,200	62,800
180	51.3	220.1		53,100
190	48.6	211.4		44,400
200	45.7	201.9		36,600
210	42.7	191.4		29,700
220	39.5	179.6		23,400
230	36.0	166.3		14,700

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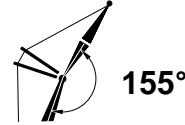
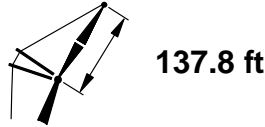


177.2 ft				
ft	°	ft	lb	lb
24	85.0	183.3	536,600	536,600
26	84.3	183.1	535,700	535,700
28	83.7	182.8	534,800	534,800
30	83.0	182.6	533,900	533,900
32	82.4	182.3	533,000	533,000
34	81.7	182.0	532,200	532,200
36	81.1	181.6	521,700	521,700
38	80.4	181.2	505,900	505,900
40	79.8	180.9	490,800	490,800
45	78.1	179.8	454,100	458,800
50	76.4	178.5	388,600	458,800
55	74.8	177.1	336,200	458,800
60	73.1	175.6	293,300	421,100
65	71.4	173.9	257,600	374,200
70	69.6	172.0	227,300	333,600
75	67.9	169.9	201,400	299,400
80	66.1	167.7	179,000	270,100
85	64.3	165.3	159,300	244,900
90	62.5	162.6	142,000	222,900
95	60.6	159.8	126,600	203,500
100	58.7	156.7	112,800	186,300
105	56.8	153.4	100,400	170,900
110	54.8	149.9	89,200	157,100
115	52.8	146.1	79,100	144,700
120	50.7	142.0	69,800	133,400
125	48.5	137.5	61,200	123,100
130	46.3	132.7	53,400	113,600
135	44.0	127.6	46,200	105,000
140	41.5	121.9	39,500	97,000
145	39.0	115.8	33,400	89,600
150	36.2	109.0	27,600	82,800
160	30.1	93.0	17,300	70,500

196.9 ft				
ft	°	ft	lb	lb
26	84.9	202.9	484,300	484,300
28	84.3	202.7	483,400	483,400
30	83.7	202.4	482,400	482,400
32	83.2	202.2	481,500	481,500
34	82.6	201.9	480,500	480,500
36	82.0	201.6	479,600	479,600
38	81.4	201.2	478,700	478,700
40	80.8	200.9	470,400	470,400
45	79.3	199.9	438,200	438,200
50	77.8	198.8	389,500	438,200
55	76.3	197.6	337,000	438,200
60	74.8	196.2	294,000	420,100
65	73.3	194.7	258,200	375,200
70	71.8	193.0	227,900	334,400
75	70.2	191.2	201,900	300,100
80	68.6	189.2	179,400	270,900
85	67.1	187.0	159,700	245,500
90	65.5	184.7	142,400	223,400
95	63.8	182.3	126,900	204,000
100	62.2	179.6	113,100	186,800
105	60.5	176.7	100,700	171,400
110	58.8	173.7	89,400	157,500
115	57.1	170.4	79,200	145,000
120	55.3	167.0	69,900	133,700
125	53.5	163.2	61,300	123,300
130	51.6	159.3	53,500	113,900
135	49.7	155.0	46,200	105,200
140	47.7	150.5	39,500	97,100
145	45.7	145.6	33,300	89,700
150	43.6	140.3	27,500	82,800
160	39.1	128.5	17,000	70,500
170	34.1	114.6		59,700
180	28.3	97.4		50,300

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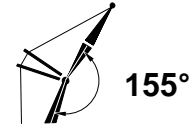
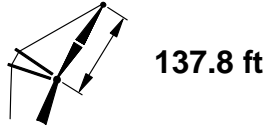


216.5 ft				
ft	°	ft	lb	lb
28	84.8	222.5	433,200	433,200
30	84.3	222.3	433,200	433,200
32	83.8	222.0	433,200	433,200
34	83.2	221.8	432,500	432,500
36	82.7	221.5	431,600	431,600
38	82.2	221.2	430,600	430,600
40	81.6	220.9	429,700	429,700
45	80.3	220.0	419,800	419,800
50	79.0	219.0	389,700	397,800
55	77.6	217.9	337,100	397,800
60	76.2	216.6	294,100	397,400
65	74.9	215.2	258,200	375,600
70	73.5	213.7	227,900	334,800
75	72.1	212.1	201,900	300,500
80	70.7	210.3	179,300	271,100
85	69.3	208.4	159,600	245,700
90	67.8	206.3	142,200	223,600
95	66.4	204.1	126,700	204,100
100	64.9	201.8	112,900	186,800
105	63.4	199.2	100,400	171,400
110	61.9	196.6	89,200	157,500
115	60.4	193.7	78,900	145,000
120	58.9	190.7	69,600	133,600
125	57.3	187.4	61,000	123,300
130	55.7	184.0	53,100	113,800
135	54.1	180.4	45,800	105,000
140	52.4	176.5	39,100	97,000
145	50.7	172.4	32,800	89,500
150	48.9	168.0	27,000	82,600
160	45.2	158.4	16,500	70,200
170	41.3	147.4		59,400
180	37.0	134.7		49,800
190	32.3	119.7		41,400
200	26.7	101.4		33,400

236.2 ft				
ft	°	ft	lb	lb
30	84.8	242.1	377,200	377,200
32	84.3	241.8	377,200	377,200
34	83.8	241.6	377,200	377,200
36	83.3	241.3	377,200	377,200
38	82.8	241.1	377,200	377,200
40	82.3	240.8	377,200	377,200
45	81.1	240.0	377,200	377,200
50	79.9	239.1	371,200	371,200
55	78.6	238.0	336,900	361,800
60	77.4	236.9	293,800	352,500
65	76.2	235.6	257,900	343,300
70	74.9	234.3	227,500	334,200
75	73.6	232.8	201,400	300,400
80	72.4	231.2	178,800	271,000
85	71.1	229.4	159,100	245,600
90	69.8	227.6	141,600	223,400
95	68.5	225.6	126,100	203,900
100	67.2	223.5	112,200	186,600
105	65.8	221.2	99,800	171,100
110	64.5	218.8	88,500	157,200
115	63.1	216.2	78,200	144,700
120	61.7	213.5	68,800	133,300
125	60.3	210.6	60,200	122,900
130	58.9	207.6	52,300	113,300
135	57.5	204.4	45,000	104,600
140	56.0	201.0	38,300	96,500
145	54.5	197.4	32,000	89,000
150	53.0	193.7	26,100	82,100
160	49.9	185.4	15,600	69,700
170	46.6	176.2		58,800
180	43.1	165.9		49,200
190	39.3	154.1		40,700
200	35.2	140.5		33,100
210	30.7	124.6		26,300
220	25.4	105.1		17,100

MLC300 VPC-MAX S-3

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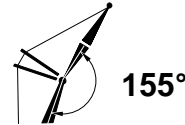
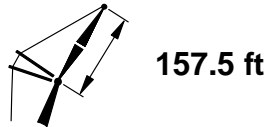


ft	°	ft	lb	lb
32	84.7	261.6	328,900	328,900
34	84.3	261.4	328,900	328,900
36	83.8	261.2	328,900	328,900
38	83.4	260.9	328,900	328,900
40	82.9	260.7	328,900	328,900
45	81.8	259.9	328,900	328,900
50	80.7	259.1	328,600	328,600
55	79.5	258.1	320,500	320,500
60	78.4	257.1	293,500	312,400
65	77.2	255.9	257,500	304,300
70	76.1	254.7	227,000	294,300
75	74.9	253.3	200,900	283,400
80	73.8	251.8	178,300	270,900
85	72.6	250.3	158,500	245,500
90	71.4	248.5	141,100	223,300
95	70.2	246.7	125,600	203,700
100	69.0	244.8	111,700	186,400
105	67.8	242.7	99,200	170,900
110	66.6	240.5	87,800	156,900
115	65.3	238.2	77,600	144,400
120	64.1	235.8	68,200	132,900
125	62.8	233.2	59,600	122,500
130	61.6	230.5	51,600	113,000
135	60.3	227.6	44,300	104,200
140	59.0	224.6	37,500	96,100
145	57.6	221.4	31,300	88,600
150	56.3	218.0	25,400	81,700
160	53.5	210.8	14,800	69,200
170	50.7	202.8		58,300
180	47.7	193.9		48,700
190	44.5	184.0		40,200
200	41.2	172.9		32,500
210	37.6	160.4		25,700
220	33.7	146.0		18,900
230	29.3	129.1		12,000

ft	°	ft	lb	lb
34	84.7	281.2	287,000	287,000
36	84.3	281.0	287,000	287,000
38	83.9	280.8	287,000	287,000
40	83.4	280.5	287,000	287,000
45	82.4	279.8	287,000	287,000
50	81.3	279.1	287,000	287,000
55	80.3	278.2	283,000	283,000
60	79.2	277.2	274,400	274,400
65	78.2	276.1	256,500	264,400
70	77.1	275.0	226,000	254,300
75	76.0	273.7	199,900	243,900
80	75.0	272.4	177,200	232,600
85	73.9	270.9	157,400	221,200
90	72.8	269.3	139,900	210,200
95	71.7	267.7	124,300	199,500
100	70.6	265.9	110,400	185,600
105	69.5	264.0	97,900	170,100
110	68.3	262.0	86,600	156,200
115	67.2	259.9	76,200	143,600
120	66.1	257.6	66,800	132,100
125	64.9	255.3	58,200	121,700
130	63.8	252.8	50,300	112,100
135	62.6	250.2	42,900	103,300
140	61.4	247.4	36,200	95,200
145	60.2	244.6	29,900	87,700
150	59.0	241.5	24,000	80,800
160	56.5	235.0	13,400	68,300
170	54.0	227.9		57,300
180	51.3	220.1		47,700
190	48.6	211.4		39,100
200	45.7	201.9		31,500
210	42.7	191.4		24,600
220	39.5	179.6		15,000

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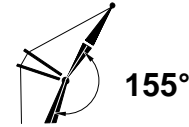
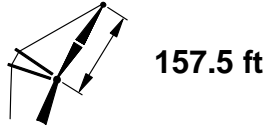


177.2 ft				
ft	°	ft	lb	lb
24	85.0	183.3	523,200	523,200
26	84.3	183.1	522,100	522,100
28	83.7	182.8	521,000	521,000
30	83.0	182.6	520,000	520,000
32	82.4	182.3	519,000	519,000
34	81.7	182.0	518,100	518,100
36	81.1	181.6	510,500	510,500
38	80.4	181.2	494,600	494,600
40	79.8	180.9	479,500	479,500
45	78.1	179.8	432,100	464,000
50	76.4	178.5	367,800	464,000
55	74.8	177.1	316,400	452,900
60	73.1	175.6	274,300	407,100
65	71.4	173.9	239,200	359,300
70	69.6	172.0	209,600	319,300
75	67.9	169.9	184,200	285,600
80	66.1	167.7	162,200	256,800
85	64.3	165.3	142,900	231,900
90	62.5	162.6	126,000	210,200
95	60.6	159.8	110,900	191,100
100	58.7	156.7	97,400	174,200
105	56.8	153.4	85,300	159,100
110	54.8	149.9	74,300	145,500
115	52.8	146.1	64,400	133,200
120	50.7	142.0	55,300	122,100
125	48.5	137.5	47,000	112,000
130	46.3	132.7	39,300	102,700
135	44.0	127.6	32,300	94,200
140	41.5	121.9	25,800	86,400
145	39.0	115.8	19,800	79,200
150	36.2	109.0	14,200	72,500
160	30.1	93.0		60,600

196.9 ft				
ft	°	ft	lb	lb
26	84.9	202.9	472,300	472,300
28	84.3	202.7	471,500	471,500
30	83.7	202.4	470,800	470,800
32	83.2	202.2	470,100	470,100
34	82.6	201.9	469,400	469,400
36	82.0	201.6	468,700	468,700
38	81.4	201.2	468,000	468,000
40	80.8	200.9	460,000	460,000
45	79.3	199.9	427,700	427,700
50	77.8	198.8	369,200	427,700
55	76.3	197.6	317,700	427,700
60	74.8	196.2	275,500	405,300
65	73.3	194.7	240,400	360,700
70	71.8	193.0	210,600	320,600
75	70.2	191.2	185,200	286,700
80	68.6	189.2	163,100	257,900
85	67.1	187.0	143,800	232,900
90	65.5	184.7	126,800	211,100
95	63.8	182.3	111,600	192,000
100	62.2	179.6	98,100	175,000
105	60.5	176.7	85,900	159,800
110	58.8	173.7	74,900	146,200
115	57.1	170.4	64,900	133,900
120	55.3	167.0	55,800	122,700
125	53.5	163.2	47,400	112,600
130	51.6	159.3	39,800	103,200
135	49.7	155.0	32,700	94,700
140	47.7	150.5	26,100	86,800
145	45.7	145.6	20,000	79,500
150	43.6	140.3	14,400	72,800
160	39.1	128.5		60,700
170	34.1	114.6		50,100
180	28.3	97.4		40,200

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ASME B30.5

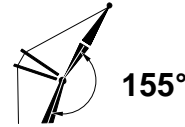
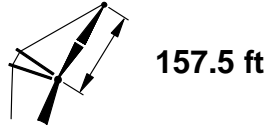


ft	°	ft	lb	lb
28	84.8	222.5	424,800	424,800
30	84.3	222.3	424,500	424,500
32	83.8	222.0	423,800	423,800
34	83.2	221.8	423,000	423,000
36	82.7	221.5	422,400	422,400
38	82.2	221.2	421,600	421,600
40	81.6	220.9	420,700	420,700
45	80.3	220.0	410,000	410,000
50	79.0	219.0	369,800	402,400
55	77.6	217.9	318,200	395,000
60	76.2	216.6	276,000	384,300
65	74.9	215.2	240,800	361,500
70	73.5	213.7	211,000	321,200
75	72.1	212.1	185,500	287,400
80	70.7	210.3	163,400	258,400
85	69.3	208.4	144,000	233,400
90	67.8	206.3	127,000	211,600
95	66.4	204.1	111,800	192,400
100	64.9	201.8	98,200	175,400
105	63.4	199.2	86,000	160,200
110	61.9	196.6	75,000	146,500
115	60.4	193.7	65,000	134,100
120	58.9	190.7	55,800	122,900
125	57.3	187.4	47,400	112,700
130	55.7	184.0	39,700	103,400
135	54.1	180.4	32,600	94,800
140	52.4	176.5	26,000	86,900
145	50.7	172.4	19,900	79,600
150	48.9	168.0	14,200	72,800
160	45.2	158.4		60,600
170	41.3	147.4		50,000
180	37.0	134.7		40,600
190	32.3	119.7		32,400
200	26.7	101.4		21,800

ft	°	ft	lb	lb
30	84.8	242.1	369,000	369,000
32	84.3	241.8	369,000	369,000
34	83.8	241.6	369,000	369,000
36	83.3	241.3	369,000	369,000
38	82.8	241.1	369,000	369,000
40	82.3	240.8	369,000	369,000
45	81.1	240.0	368,500	368,500
50	79.9	239.1	358,500	358,500
55	78.6	238.0	318,300	349,100
60	77.4	236.9	276,000	339,600
65	76.2	235.6	240,700	330,400
70	74.9	234.3	210,900	321,200
75	73.6	232.8	185,300	287,600
80	72.4	231.2	163,200	258,600
85	71.1	229.4	143,800	233,500
90	69.8	227.6	126,700	211,700
95	68.5	225.6	111,500	192,400
100	67.2	223.5	97,900	175,400
105	65.8	221.2	85,700	160,100
110	64.5	218.8	74,600	146,400
115	63.1	216.2	64,500	134,000
120	61.7	213.5	55,300	122,800
125	60.3	210.6	46,900	112,600
130	58.9	207.6	39,200	103,200
135	57.5	204.4	32,000	94,600
140	56.0	201.0	25,400	86,600
145	54.5	197.4	19,300	79,300
150	53.0	193.7	13,600	72,500
160	49.9	185.4		60,200
170	46.6	176.2		49,500
180	43.1	165.9		40,100
190	39.3	154.1		31,800
200	35.2	140.5		24,300
210	30.7	124.6		16,400

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ASME B30.5

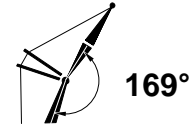
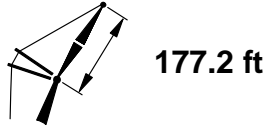


255.9 ft				
ft	°	ft	lb	lb
32	84.7	261.6	320,600	320,600
34	84.3	261.4	320,600	320,600
36	83.8	261.2	320,600	320,600
38	83.4	260.9	320,600	320,600
40	82.9	260.7	320,600	320,600
45	81.8	259.9	320,600	320,600
50	80.7	259.1	316,200	316,200
55	79.5	258.1	308,000	308,000
60	78.4	257.1	275,900	299,800
65	77.2	255.9	240,600	291,100
70	76.1	254.7	210,800	279,900
75	74.9	253.3	185,200	268,900
80	73.8	251.8	163,000	258,000
85	72.6	250.3	143,500	233,600
90	71.4	248.5	126,400	211,700
95	70.2	246.7	111,200	192,400
100	69.0	244.8	97,600	175,300
105	67.8	242.7	85,300	160,100
110	66.6	240.5	74,200	146,300
115	65.3	238.2	64,100	133,900
120	64.1	235.8	54,900	122,700
125	62.8	233.2	46,500	112,400
130	61.6	230.5	38,700	103,000
135	60.3	227.6	31,600	94,400
140	59.0	224.6	25,000	86,400
145	57.6	221.4	18,800	79,100
150	56.3	218.0	13,100	72,200
160	53.5	210.8		59,900
170	50.7	202.8		49,200
180	47.7	193.9		39,800
190	44.5	184.0		31,400
200	41.2	172.9		23,500
210	37.6	160.4		15,300

275.6 ft				
ft	°	ft	lb	lb
34	84.7	281.2	278,700	278,700
36	84.3	281.0	278,700	278,700
38	83.9	280.8	278,700	278,700
40	83.4	280.5	278,700	278,700
45	82.4	279.8	278,700	278,700
50	81.3	279.1	278,000	278,000
55	80.3	278.2	270,800	270,800
60	79.2	277.2	260,600	260,600
65	78.2	276.1	239,900	250,500
70	77.1	275.0	209,900	240,000
75	76.0	273.7	184,300	229,200
80	75.0	272.4	162,100	217,400
85	73.9	270.9	142,600	206,000
90	72.8	269.3	125,400	194,900
95	71.7	267.7	110,200	184,200
100	70.6	265.9	96,500	173,900
105	69.5	264.0	84,300	159,500
110	68.3	262.0	73,200	145,700
115	67.2	259.9	63,100	133,300
120	66.1	257.6	53,800	122,000
125	64.9	255.3	45,400	111,700
130	63.8	252.8	37,600	102,300
135	62.6	250.2	30,400	93,700
140	61.4	247.4	23,800	85,700
145	60.2	244.6	17,600	78,300
150	59.0	241.5	11,900	71,500
160	56.5	235.0		59,100
170	54.0	227.9		48,400
180	51.3	220.1		38,900
190	48.6	211.4		30,500
200	45.7	201.9		21,100

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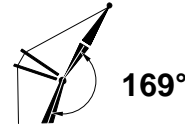
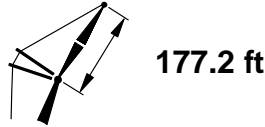


177.2 ft				
ft	°	ft	lb	lb
24	85.0	183.3	533,600	533,600
26	84.3	183.1	532,300	532,300
28	83.7	182.8	531,000	531,000
30	83.0	182.6	529,600	529,600
32	82.4	182.3	528,200	528,200
34	81.7	182.0	526,800	526,800
36	81.1	181.6	520,900	520,900
38	80.4	181.2	504,500	504,500
40	79.8	180.9	488,900	488,900
45	78.1	179.8	450,300	456,300
50	76.4	178.5	382,800	456,300
55	74.8	177.1	328,700	456,300
60	73.1	175.6	284,400	414,000
65	71.4	173.9	247,600	366,600
70	69.6	172.0	216,400	325,200
75	67.9	169.9	189,600	290,300
80	66.1	167.7	166,400	260,500
85	64.3	165.3	146,100	234,700
90	62.5	162.6	128,200	212,200
95	60.6	159.8	112,200	192,400
100	58.7	156.7	98,000	174,800
105	56.8	153.4	85,100	159,100
110	54.8	149.9	73,500	145,000
115	52.8	146.1	62,900	132,200
120	50.7	142.0	53,200	120,600
125	48.5	137.5	44,400	110,100
130	46.3	132.7	36,200	100,400
135	44.0	127.6	28,700	91,500
140	41.5	121.9	21,700	83,300
145	39.0	115.8	15,200	75,700
150	36.2	109.0		68,600
160	30.1	93.0		55,900
170	22.5	71.8		37,200

196.9 ft				
ft	°	ft	lb	lb
26	84.9	202.9	478,300	478,300
28	84.3	202.7	477,300	477,300
30	83.7	202.4	476,200	476,200
32	83.2	202.2	475,200	475,200
34	82.6	201.9	474,000	474,000
36	82.0	201.6	472,700	472,700
38	81.4	201.2	471,400	471,400
40	80.8	200.9	469,200	469,200
45	79.3	199.9	435,800	435,800
50	77.8	198.8	384,900	435,800
55	76.3	197.6	330,800	435,800
60	74.8	196.2	286,500	413,700
65	73.3	194.7	249,500	368,700
70	71.8	193.0	218,300	327,200
75	70.2	191.2	191,500	292,200
80	68.6	189.2	168,200	262,300
85	67.1	187.0	147,900	236,500
90	65.5	184.7	129,900	213,900
95	63.8	182.3	114,000	194,100
100	62.2	179.6	99,700	176,400
105	60.5	176.7	86,800	160,700
110	58.8	173.7	75,200	146,600
115	57.1	170.4	64,600	133,800
120	55.3	167.0	54,900	122,200
125	53.5	163.2	46,000	111,600
130	51.6	159.3	37,900	101,900
135	49.7	155.0	30,300	93,000
140	47.7	150.5	23,300	84,700
145	45.7	145.6	16,800	77,100
150	43.6	140.3	10,800	70,100
160	39.1	128.5		57,300
170	34.1	114.6		46,200
180	28.3	97.4		34,200
190	21.0	74.5		18,500

MLC300 VPC-MAX S-3

ASME B30.5

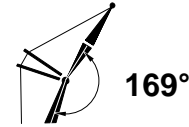
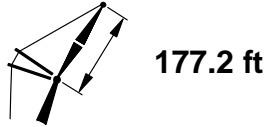


216.5 ft				
ft	°	ft	lb	lb
28	84.8	222.5	425,700	425,700
30	84.3	222.3	425,700	425,700
32	83.8	222.0	425,700	425,700
34	83.2	221.8	424,800	424,800
36	82.7	221.5	423,700	423,700
38	82.2	221.2	422,800	422,800
40	81.6	220.9	421,700	421,700
45	80.3	220.0	418,100	418,100
50	79.0	219.0	386,200	396,300
55	77.6	217.9	332,000	396,300
60	76.2	216.6	287,600	390,900
65	74.9	215.2	250,600	370,000
70	73.5	213.7	219,300	328,400
75	72.1	212.1	192,500	293,400
80	70.7	210.3	169,200	263,500
85	69.3	208.4	148,900	237,600
90	67.8	206.3	130,900	215,000
95	66.4	204.1	114,900	195,100
100	64.9	201.8	100,600	177,500
105	63.4	199.2	87,800	161,700
110	61.9	196.6	76,100	147,500
115	60.4	193.7	65,500	134,700
120	58.9	190.7	55,800	123,100
125	57.3	187.4	46,900	112,500
130	55.7	184.0	38,800	102,800
135	54.1	180.4	31,200	93,800
140	52.4	176.5	24,200	85,600
145	50.7	172.4	17,700	78,000
150	48.9	168.0	11,700	70,900
160	45.2	158.4		58,200
170	41.3	147.4		47,000
180	37.0	134.7		37,200
190	32.3	119.7		28,400
200	26.7	101.4		16,000

236.2 ft				
ft	°	ft	lb	lb
30	84.8	242.1	369,300	369,300
32	84.3	241.8	369,300	369,300
34	83.8	241.6	369,300	369,300
36	83.3	241.3	369,300	369,300
38	82.8	241.1	369,300	369,300
40	82.3	240.8	369,300	369,300
45	81.1	240.0	369,300	369,300
50	79.9	239.1	365,200	365,200
55	78.6	238.0	332,600	355,700
60	77.4	236.9	288,200	346,100
65	76.2	235.6	251,100	336,600
70	74.9	234.3	219,800	327,200
75	73.6	232.8	192,900	294,100
80	72.4	231.2	169,600	264,100
85	71.1	229.4	149,200	238,200
90	69.8	227.6	131,300	215,600
95	68.5	225.6	115,300	195,700
100	67.2	223.5	100,900	178,000
105	65.8	221.2	88,000	162,200
110	64.5	218.8	76,400	148,000
115	63.1	216.2	65,800	135,200
120	61.7	213.5	56,100	123,500
125	60.3	210.6	47,200	112,900
130	58.9	207.6	39,000	103,200
135	57.5	204.4	31,400	94,200
140	56.0	201.0	24,400	86,000
145	54.5	197.4	17,900	78,300
150	53.0	193.7	11,900	71,200
160	49.9	185.4		58,500
170	46.6	176.2		47,300
180	43.1	165.9		37,400
190	39.3	154.1		28,700
200	35.2	140.5		19,800
210	30.7	124.6		11,100

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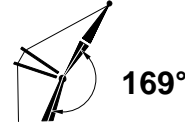
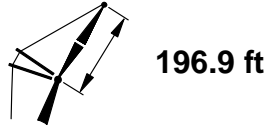


ft	°	ft	lb	lb
32	84.7	261.6	320,700	320,700
34	84.3	261.4	320,700	320,700
36	83.8	261.2	320,700	320,700
38	83.4	260.9	320,700	320,700
40	82.9	260.7	320,700	320,700
45	81.8	259.9	320,700	320,700
50	80.7	259.1	320,700	320,700
55	79.5	258.1	314,300	314,300
60	78.4	257.1	288,600	306,100
65	77.2	255.9	251,500	297,800
70	76.1	254.7	220,100	288,000
75	74.9	253.3	193,200	276,800
80	73.8	251.8	169,900	264,700
85	72.6	250.3	149,500	238,700
90	71.4	248.5	131,500	216,000
95	70.2	246.7	115,500	196,100
100	69.0	244.8	101,100	178,400
105	67.8	242.7	88,200	162,600
110	66.6	240.5	76,600	148,400
115	65.3	238.2	65,900	135,500
120	64.1	235.8	56,200	123,900
125	62.8	233.2	47,300	113,200
130	61.6	230.5	39,100	103,500
135	60.3	227.6	31,600	94,500
140	59.0	224.6	24,600	86,200
145	57.6	221.4	18,100	78,600
150	56.3	218.0	12,000	71,500
160	53.5	210.8		58,700
170	50.7	202.8		47,500
180	47.7	193.9		37,700
190	44.5	184.0		28,900
200	41.2	172.9		19,600
210	37.6	160.4		10,900

ft	°	ft	lb	lb
34	84.7	281.2	278,400	278,400
36	84.3	281.0	278,400	278,400
38	83.9	280.8	278,400	278,400
40	83.4	280.5	278,400	278,400
45	82.4	279.8	278,400	278,400
50	81.3	279.1	278,400	278,400
55	80.3	278.2	276,700	276,700
60	79.2	277.2	268,600	268,600
65	78.2	276.1	251,100	258,500
70	77.1	275.0	219,700	248,300
75	76.0	273.7	192,800	237,700
80	75.0	272.4	169,400	226,300
85	73.9	270.9	149,000	214,600
90	72.8	269.3	131,000	203,200
95	71.7	267.7	114,900	192,200
100	70.6	265.9	100,600	178,200
105	69.5	264.0	87,600	162,400
110	68.3	262.0	75,900	148,100
115	67.2	259.9	65,300	135,300
120	66.1	257.6	55,600	123,600
125	64.9	255.3	46,700	112,900
130	63.8	252.8	38,500	103,200
135	62.6	250.2	30,900	94,200
140	61.4	247.4	23,900	85,900
145	60.2	244.6	17,400	78,300
150	59.0	241.5	11,300	71,100
160	56.5	235.0		58,300
170	54.0	227.9		47,200
180	51.3	220.1		37,300
190	48.6	211.4		28,200
200	45.7	201.9		18,600

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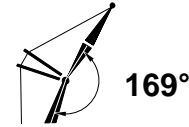
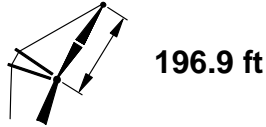


ft	°	ft	lb	lb
24	85.0	183.3	521,700	521,700
26	84.3	183.1	520,300	520,300
28	83.7	182.8	518,900	518,900
30	83.0	182.6	517,500	517,500
32	82.4	182.3	516,200	516,200
34	81.7	182.0	514,900	514,900
36	81.1	181.6	511,000	511,000
38	80.4	181.2	494,500	494,500
40	79.8	180.9	478,700	478,700
45	78.1	179.8	431,100	459,800
50	76.4	178.5	364,200	459,800
55	74.8	177.1	310,600	447,900
60	73.1	175.6	266,700	400,800
65	71.4	173.9	230,200	352,600
70	69.6	172.0	199,300	311,500
75	67.9	169.9	172,700	276,800
80	66.1	167.7	149,800	247,300
85	64.3	165.3	129,700	221,700
90	62.5	162.6	111,900	199,400
95	60.6	159.8	96,100	179,700
100	58.7	156.7	82,000	162,300
105	56.8	153.4	69,300	146,700
110	54.8	149.9	57,800	132,800
115	52.8	146.1	47,300	120,100
120	50.7	142.0	37,800	108,600
125	48.5	137.5	29,000	98,200
130	46.3	132.7	21,000	88,600
135	44.0	127.6	13,500	79,800
140	41.5	121.9		71,700
145	39.0	115.8		64,100
150	36.2	109.0		57,200
160	30.1	93.0		41,600
170	22.5	71.8		22,600

ft	°	ft	lb	lb
26	84.9	202.9	468,300	468,300
28	84.3	202.7	467,200	467,200
30	83.7	202.4	466,100	466,100
32	83.2	202.2	465,000	465,000
34	82.6	201.9	463,800	463,800
36	82.0	201.6	462,700	462,700
38	81.4	201.2	461,700	461,700
40	80.8	200.9	459,900	459,900
45	79.3	199.9	426,200	426,200
50	77.8	198.8	367,000	426,200
55	76.3	197.6	313,300	426,200
60	74.8	196.2	269,400	399,900
65	73.3	194.7	232,800	355,200
70	71.8	193.0	201,900	314,000
75	70.2	191.2	175,300	279,300
80	68.6	189.2	152,300	249,700
85	67.1	187.0	132,100	224,000
90	65.5	184.7	114,400	201,700
95	63.8	182.3	98,600	182,000
100	62.2	179.6	84,400	164,500
105	60.5	176.7	71,700	148,900
110	58.8	173.7	60,200	134,900
115	57.1	170.4	49,700	122,200
120	55.3	167.0	40,100	110,700
125	53.5	163.2	31,300	100,200
130	51.6	159.3	23,300	90,600
135	49.7	155.0	15,800	81,700
140	47.7	150.5		73,600
145	45.7	145.6		66,100
150	43.6	140.3		59,100
160	39.1	128.5		46,500
170	34.1	114.6		35,500
180	28.3	97.4		20,400

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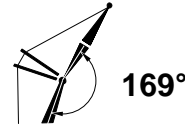
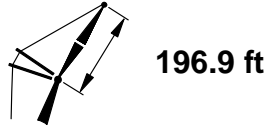


216.5 ft				
ft	°	ft	34.8 ft lb	48.0 ft lb
28	84.8	222.5	417,100	417,100
30	84.3	222.3	417,100	417,100
32	83.8	222.0	416,600	416,600
34	83.2	221.8	415,700	415,700
36	82.7	221.5	414,700	414,700
38	82.2	221.2	413,700	413,700
40	81.6	220.9	412,700	412,700
45	80.3	220.0	409,200	409,200
50	79.0	219.0	368,800	399,400
55	77.6	217.9	315,100	389,600
60	76.2	216.6	271,100	378,500
65	74.9	215.2	234,500	357,000
70	73.5	213.7	203,500	315,800
75	72.1	212.1	176,900	281,000
80	70.7	210.3	153,900	251,300
85	69.3	208.4	133,700	225,600
90	67.8	206.3	115,900	203,200
95	66.4	204.1	100,100	183,500
100	64.9	201.8	85,900	166,000
105	63.4	199.2	73,200	150,300
110	61.9	196.6	61,600	136,300
115	60.4	193.7	51,100	123,600
120	58.9	190.7	41,500	112,000
125	57.3	187.4	32,800	101,500
130	55.7	184.0	24,700	91,900
135	54.1	180.4	17,200	83,000
140	52.4	176.5	10,300	74,900
145	50.7	172.4		67,300
150	48.9	168.0		60,300
160	45.2	158.4		47,700
170	41.3	147.4		36,600
180	37.0	134.7		26,800
190	32.3	119.7		16,100

236.2 ft				
ft	°	ft	34.8 ft lb	48.0 ft lb
30	84.8	242.1	360,700	360,700
32	84.3	241.8	360,700	360,700
34	83.8	241.6	360,700	360,700
36	83.3	241.3	360,700	360,700
38	82.8	241.1	360,700	360,700
40	82.3	240.8	360,700	360,700
45	81.1	240.0	360,700	360,700
50	79.9	239.1	353,300	353,300
55	78.6	238.0	316,200	343,500
60	77.4	236.9	272,200	333,900
65	76.2	235.6	235,500	324,300
70	74.9	234.3	204,400	314,800
75	73.6	232.8	177,800	282,100
80	72.4	231.2	154,700	252,300
85	71.1	229.4	134,500	226,600
90	69.8	227.6	116,700	204,200
95	68.5	225.6	100,900	184,400
100	67.2	223.5	86,700	166,900
105	65.8	221.2	73,900	151,200
110	64.5	218.8	62,400	137,100
115	63.1	216.2	51,900	124,400
120	61.7	213.5	42,300	112,800
125	60.3	210.6	33,500	102,300
130	58.9	207.6	25,400	92,600
135	57.5	204.4	17,900	83,800
140	56.0	201.0	10,900	75,600
145	54.5	197.4		68,000
150	53.0	193.7		61,000
160	49.9	185.4		48,300
170	46.6	176.2		37,300
180	43.1	165.9		27,000
190	39.3	154.1		16,400

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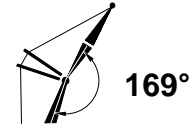
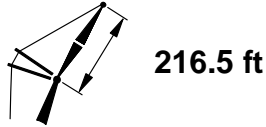


255.9 ft				
ft	°	ft	lb	lb
32	84.7	261.6	311,900	311,900
34	84.3	261.4	311,900	311,900
36	83.8	261.2	311,900	311,900
38	83.4	260.9	311,900	311,900
40	82.9	260.7	311,900	311,900
45	81.8	259.9	311,900	311,900
50	80.7	259.1	308,900	308,900
55	79.5	258.1	300,700	300,700
60	78.4	257.1	273,000	292,300
65	77.2	255.9	236,200	283,800
70	76.1	254.7	205,100	272,400
75	74.9	253.3	178,500	261,100
80	73.8	251.8	155,400	249,900
85	72.6	250.3	135,200	227,400
90	71.4	248.5	117,300	205,000
95	70.2	246.7	101,500	185,200
100	69.0	244.8	87,300	167,600
105	67.8	242.7	74,500	151,900
110	66.6	240.5	62,900	137,800
115	65.3	238.2	52,400	125,100
120	64.1	235.8	42,800	113,500
125	62.8	233.2	34,000	102,900
130	61.6	230.5	25,900	93,300
135	60.3	227.6	18,400	84,400
140	59.0	224.6	11,500	76,200
145	57.6	221.4		68,600
150	56.3	218.0		61,500
160	53.5	210.8		48,900
170	50.7	202.8		37,800
180	47.7	193.9		27,200
190	44.5	184.0		16,600

275.6 ft				
ft	°	ft	lb	lb
34	84.7	281.2	269,500	269,500
36	84.3	281.0	269,500	269,500
38	83.9	280.8	269,500	269,500
40	83.4	280.5	269,500	269,500
45	82.4	279.8	269,500	269,500
50	81.3	279.1	269,500	269,500
55	80.3	278.2	263,200	263,200
60	79.2	277.2	253,500	253,500
65	78.2	276.1	236,200	243,400
70	77.1	275.0	205,100	232,900
75	76.0	273.7	178,400	221,900
80	75.0	272.4	155,300	209,900
85	73.9	270.9	135,000	198,200
90	72.8	269.3	117,100	186,900
95	71.7	267.7	101,300	175,800
100	70.6	265.9	87,100	165,200
105	69.5	264.0	74,300	152,000
110	68.3	262.0	62,700	137,800
115	67.2	259.9	52,100	125,100
120	66.1	257.6	42,500	113,500
125	64.9	255.3	33,700	102,900
130	63.8	252.8	25,600	93,200
135	62.6	250.2	18,100	84,300
140	61.4	247.4	11,200	76,100
145	60.2	244.6		68,500
150	59.0	241.5		61,500
160	56.5	235.0		48,800
170	54.0	227.9		37,700
180	51.3	220.1		26,500
190	48.6	211.4		15,900

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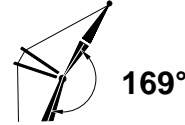
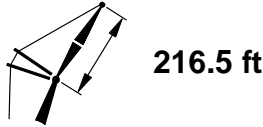


177.2 ft				
ft	°	ft	34.8 ft lb	48.0 ft lb
24	85.0	183.3	512,400	512,400
26	84.3	183.1	510,800	510,800
28	83.7	182.8	509,300	509,300
30	83.0	182.6	507,800	507,800
32	82.4	182.3	506,300	506,300
34	81.7	182.0	504,800	504,800
36	81.1	181.6	503,300	503,300
38	80.4	181.2	487,300	487,300
40	79.8	180.9	471,300	471,300
45	78.1	179.8	416,600	463,500
50	76.4	178.5	350,100	463,500
55	74.8	177.1	296,900	437,300
60	73.1	175.6	253,400	391,000
65	71.4	173.9	217,100	342,000
70	69.6	172.0	186,400	301,100
75	67.9	169.9	160,100	266,700
80	66.1	167.7	137,300	237,300
85	64.3	165.3	117,400	211,900
90	62.5	162.6	99,800	189,800
95	60.6	159.8	84,100	170,300
100	58.7	156.7	70,100	153,000
105	56.8	153.4	57,500	137,500
110	54.8	149.9	46,100	123,600
115	52.8	146.1	35,700	111,100
120	50.7	142.0	26,300	99,700
125	48.5	137.5	17,600	89,300
130	46.3	132.7		79,800
135	44.0	127.6		71,000
140	41.5	121.9		63,000
145	39.0	115.8		55,500
150	36.2	109.0		48,600
160	30.1	93.0		30,700
170	22.5	71.8		11,900

196.9 ft				
ft	°	ft	34.8 ft lb	48.0 ft lb
26	84.9	202.9	459,900	459,900
28	84.3	202.7	458,800	458,800
30	83.7	202.4	457,800	457,800
32	83.2	202.2	456,700	456,700
34	82.6	201.9	455,700	455,700
36	82.0	201.6	454,600	454,600
38	81.4	201.2	453,500	453,500
40	80.8	200.9	452,300	452,300
45	79.3	199.9	419,200	419,200
50	77.8	198.8	353,500	419,200
55	76.3	197.6	300,300	419,200
60	74.8	196.2	256,700	389,700
65	73.3	194.7	220,300	345,100
70	71.8	193.0	189,600	304,200
75	70.2	191.2	163,300	269,700
80	68.6	189.2	140,400	240,200
85	67.1	187.0	120,400	214,700
90	65.5	184.7	102,800	192,500
95	63.8	182.3	87,100	173,000
100	62.2	179.6	73,100	155,600
105	60.5	176.7	60,500	140,100
110	58.8	173.7	49,000	126,200
115	57.1	170.4	38,600	113,600
120	55.3	167.0	29,100	102,200
125	53.5	163.2	20,400	91,700
130	51.6	159.3	12,400	82,200
135	49.7	155.0		73,400
140	47.7	150.5		65,300
145	45.7	145.6		57,900
150	43.6	140.3		50,900
160	39.1	128.5		38,400
170	34.1	114.6		26,400
180	28.3	97.4		10,200

MLC300 VPC-MAX S-3

ASME B30.5

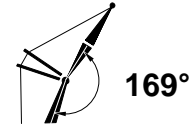
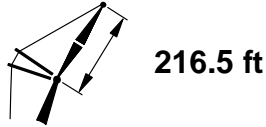


216.5 ft				
ft	°	ft	lb	lb
28	84.8	222.5	410,600	410,600
30	84.3	222.3	410,100	410,100
32	83.8	222.0	409,300	409,300
34	83.2	221.8	408,500	408,500
36	82.7	221.5	407,700	407,700
38	82.2	221.2	406,600	406,600
40	81.6	220.9	405,700	405,700
45	80.3	220.0	402,800	402,800
50	79.0	219.0	355,800	391,300
55	77.6	217.9	302,500	379,900
60	76.2	216.6	258,800	368,600
65	74.9	215.2	222,500	347,300
70	73.5	213.7	191,700	306,300
75	72.1	212.1	165,300	271,700
80	70.7	210.3	142,500	242,200
85	69.3	208.4	122,400	216,700
90	67.8	206.3	104,800	194,400
95	66.4	204.1	89,100	174,800
100	64.9	201.8	75,000	157,400
105	63.4	199.2	62,400	141,900
110	61.9	196.6	50,900	127,900
115	60.4	193.7	40,500	115,300
120	58.9	190.7	31,000	103,900
125	57.3	187.4	22,300	93,400
130	55.7	184.0	14,300	83,900
135	54.1	180.4		75,100
140	52.4	176.5		67,000
145	50.7	172.4		59,500
150	48.9	168.0		52,500
160	45.2	158.4		40,000
170	41.3	147.4		28,600
180	37.0	134.7		16,800

236.2 ft				
ft	°	ft	lb	lb
30	84.8	242.1	354,100	354,100
32	84.3	241.8	354,100	354,100
34	83.8	241.6	354,100	354,100
36	83.3	241.3	354,100	354,100
38	82.8	241.1	354,100	354,100
40	82.3	240.8	354,100	354,100
45	81.1	240.0	352,300	352,300
50	79.9	239.1	342,000	342,000
55	78.6	238.0	304,000	332,200
60	77.4	236.9	260,300	322,400
65	76.2	235.6	223,800	312,700
70	74.9	234.3	193,000	303,200
75	73.6	232.8	166,600	273,200
80	72.4	231.2	143,700	243,600
85	71.1	229.4	123,700	218,000
90	69.8	227.6	106,000	195,700
95	68.5	225.6	90,300	176,100
100	67.2	223.5	76,200	158,600
105	65.8	221.2	63,500	143,100
110	64.5	218.8	52,100	129,100
115	63.1	216.2	41,600	116,400
120	61.7	213.5	32,100	105,000
125	60.3	210.6	23,400	94,500
130	58.9	207.6	15,400	84,900
135	57.5	204.4		76,100
140	56.0	201.0		68,000
145	54.5	197.4		60,500
150	53.0	193.7		53,500
160	49.9	185.4		40,900
170	46.6	176.2		29,200
180	43.1	165.9		17,400

MLC300 VPC-MAX S-3

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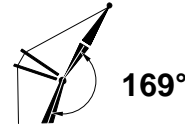
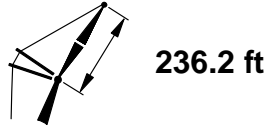


255.9 ft				
ft	°	ft	lb	lb
32	84.7	261.6	305,300	305,300
34	84.3	261.4	305,300	305,300
36	83.8	261.2	305,300	305,300
38	83.4	260.9	305,300	305,300
40	82.9	260.7	305,300	305,300
45	81.8	259.9	305,300	305,300
50	80.7	259.1	299,700	299,700
55	79.5	258.1	291,200	291,200
60	78.4	257.1	261,400	282,800
65	77.2	255.9	224,900	273,100
70	76.1	254.7	194,100	261,600
75	74.9	253.3	167,600	250,200
80	73.8	251.8	144,700	238,800
85	72.6	250.3	124,700	219,100
90	71.4	248.5	107,000	196,800
95	70.2	246.7	91,200	177,100
100	69.0	244.8	77,100	159,600
105	67.8	242.7	64,500	144,100
110	66.6	240.5	53,000	130,000
115	65.3	238.2	42,600	117,400
120	64.1	235.8	33,000	105,900
125	62.8	233.2	24,300	95,400
130	61.6	230.5	16,200	85,800
135	60.3	227.6		77,000
140	59.0	224.6		68,800
145	57.6	221.4		61,300
150	56.3	218.0		54,300
160	53.5	210.8		41,700
170	50.7	202.8		29,700
180	47.7	193.9		17,900

275.6 ft				
ft	°	ft	lb	lb
34	84.7	281.2	262,800	262,800
36	84.3	281.0	262,800	262,800
38	83.9	280.8	262,800	262,800
40	83.4	280.5	262,800	262,800
45	82.4	279.8	262,800	262,800
50	81.3	279.1	261,300	261,300
55	80.3	278.2	253,600	253,600
60	79.2	277.2	243,300	243,300
65	78.2	276.1	225,200	233,000
70	77.1	275.0	194,300	222,300
75	76.0	273.7	167,800	210,700
80	75.0	272.4	144,900	198,600
85	73.9	270.9	124,800	186,800
90	72.8	269.3	107,100	175,300
95	71.7	267.7	91,300	164,100
100	70.6	265.9	77,200	153,400
105	69.5	264.0	64,500	142,800
110	68.3	262.0	53,000	130,300
115	67.2	259.9	42,600	117,600
120	66.1	257.6	33,000	106,100
125	64.9	255.3	24,300	95,600
130	63.8	252.8	16,200	86,000
135	62.6	250.2		77,100
140	61.4	247.4		69,000
145	60.2	244.6		61,400
150	59.0	241.5		54,400
160	56.5	235.0		41,800
170	54.0	227.9		29,300
180	51.3	220.1		15,600

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ASME B30.5

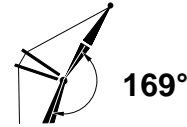
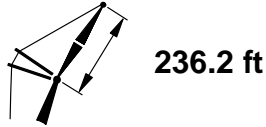


177.2 ft				
ft	°	ft	lb	lb
24	85.0	183.3	505,400	505,400
26	84.3	183.1	503,800	503,800
28	83.7	182.8	502,100	502,100
30	83.0	182.6	500,400	500,400
32	82.4	182.3	498,800	498,800
34	81.7	182.0	497,200	497,200
36	81.1	181.6	495,600	495,600
38	80.4	181.2	481,900	481,900
40	79.8	180.9	465,900	465,900
45	78.1	179.8	405,400	465,900
50	76.4	178.5	339,400	465,900
55	74.8	177.1	286,500	429,100
60	73.1	175.6	243,300	382,900
65	71.4	173.9	207,300	333,900
70	69.6	172.0	176,800	293,300
75	67.9	169.9	150,600	259,100
80	66.1	167.7	128,000	229,800
85	64.3	165.3	108,200	204,600
90	62.5	162.6	90,700	182,600
95	60.6	159.8	75,200	163,200
100	58.7	156.7	61,300	146,000
105	56.8	153.4	48,700	130,600
110	54.8	149.9	37,400	116,800
115	52.8	146.1	27,100	104,300
120	50.7	142.0	17,800	93,000
125	48.5	137.5		82,700
130	46.3	132.7		73,200
135	44.0	127.6		64,600
140	41.5	121.9		56,600
145	39.0	115.8		49,200
150	36.2	109.0		42,300
160	30.1	93.0		22,700

196.9 ft				
ft	°	ft	lb	lb
26	84.9	202.9	453,400	453,400
28	84.3	202.7	452,200	452,200
30	83.7	202.4	451,100	451,100
32	83.2	202.2	449,900	449,900
34	82.6	201.9	448,800	448,800
36	82.0	201.6	447,700	447,700
38	81.4	201.2	446,600	446,600
40	80.8	200.9	445,500	445,500
45	79.3	199.9	409,400	421,000
50	77.8	198.8	343,200	421,000
55	76.3	197.6	290,300	421,000
60	74.8	196.2	247,000	382,100
65	73.3	194.7	210,900	337,400
70	71.8	193.0	180,400	296,700
75	70.2	191.2	154,200	262,400
80	68.6	189.2	131,500	233,100
85	67.1	187.0	111,700	207,800
90	65.5	184.7	94,200	185,700
95	63.8	182.3	78,600	166,200
100	62.2	179.6	64,700	149,000
105	60.5	176.7	52,100	133,600
110	58.8	173.7	40,800	119,700
115	57.1	170.4	30,500	107,200
120	55.3	167.0	21,100	95,800
125	53.5	163.2	12,400	85,500
130	51.6	159.3		76,000
135	49.7	155.0		67,300
140	47.7	150.5		59,300
145	45.7	145.6		51,800
150	43.6	140.3		44,900
160	39.1	128.5		32,600
170	34.1	114.6		18,900

MLC300 VPC-MAX S-3

ASME B30.5

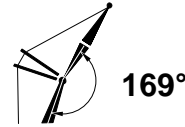
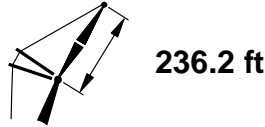


216.5 ft				
ft	°	ft	34.8 ft lb	48.0 ft lb
28	84.8	222.5	405,400	405,400
30	84.3	222.3	404,600	404,600
32	83.8	222.0	403,800	403,800
34	83.2	221.8	402,900	402,900
36	82.7	221.5	402,000	402,000
38	82.2	221.2	401,100	401,100
40	81.6	220.9	400,300	400,300
45	80.3	220.0	396,200	396,200
50	79.0	219.0	345,900	384,200
55	77.6	217.9	292,900	372,700
60	76.2	216.6	249,600	361,300
65	74.9	215.2	213,400	339,900
70	73.5	213.7	182,900	299,100
75	72.1	212.1	156,700	264,800
80	70.7	210.3	134,000	235,400
85	69.3	208.4	114,100	210,000
90	67.8	206.3	96,600	187,900
95	66.4	204.1	81,000	168,400
100	64.9	201.8	67,000	151,100
105	63.4	199.2	54,500	135,700
110	61.9	196.6	43,100	121,800
115	60.4	193.7	32,800	109,200
120	58.9	190.7	23,300	97,900
125	57.3	187.4	14,700	87,500
130	55.7	184.0		78,000
135	54.1	180.4		69,200
140	52.4	176.5		61,200
145	50.7	172.4		53,700
150	48.9	168.0		46,800
160	45.2	158.4		34,400
170	41.3	147.4		21,300

236.2 ft				
ft	°	ft	34.8 ft lb	48.0 ft lb
30	84.8	242.1	349,000	349,000
32	84.3	241.8	349,000	349,000
34	83.8	241.6	349,000	349,000
36	83.3	241.3	349,000	349,000
38	82.8	241.1	349,000	349,000
40	82.3	240.8	349,000	349,000
45	81.1	240.0	345,400	345,400
50	79.9	239.1	335,100	335,100
55	78.6	238.0	294,700	325,200
60	77.4	236.9	251,300	315,400
65	76.2	235.6	215,100	305,600
70	74.9	234.3	184,500	295,900
75	73.6	232.8	158,300	266,500
80	72.4	231.2	135,500	237,000
85	71.1	229.4	115,600	211,600
90	69.8	227.6	98,100	189,400
95	68.5	225.6	82,500	169,900
100	67.2	223.5	68,500	152,600
105	65.8	221.2	55,900	137,100
110	64.5	218.8	44,500	123,200
115	63.1	216.2	34,200	110,600
120	61.7	213.5	24,700	99,200
125	60.3	210.6	16,100	88,800
130	58.9	207.6		79,300
135	57.5	204.4		70,500
140	56.0	201.0		62,400
145	54.5	197.4		54,900
150	53.0	193.7		48,000
160	49.9	185.4		35,500
170	46.6	176.2		22,200
180	43.1	165.9		10,500

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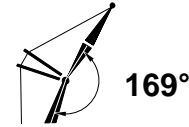
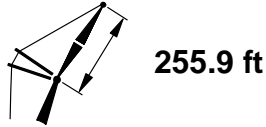


255.9 ft				
ft	°	ft	lb	lb
32	84.7	261.6	300,100	300,100
34	84.3	261.4	300,100	300,100
36	83.8	261.2	300,100	300,100
38	83.4	260.9	300,100	300,100
40	82.9	260.7	300,100	300,100
45	81.8	259.9	300,100	300,100
50	80.7	259.1	292,900	292,900
55	79.5	258.1	284,500	284,500
60	78.4	257.1	252,700	275,900
65	77.2	255.9	216,500	265,300
70	76.1	254.7	185,900	253,700
75	74.9	253.3	159,600	242,200
80	73.8	251.8	136,800	230,700
85	72.6	250.3	116,900	212,900
90	71.4	248.5	99,300	190,700
95	70.2	246.7	83,700	171,100
100	69.0	244.8	69,700	153,800
105	67.8	242.7	57,100	138,300
110	66.6	240.5	45,700	124,300
115	65.3	238.2	35,400	111,800
120	64.1	235.8	25,900	100,300
125	62.8	233.2	17,200	89,900
130	61.6	230.5		80,300
135	60.3	227.6		71,600
140	59.0	224.6		63,500
145	57.6	221.4		56,000
150	56.3	218.0		49,000
160	53.5	210.8		36,200
170	50.7	202.8		22,900
180	47.7	193.9		11,200

275.6 ft				
ft	°	ft	lb	lb
34	84.7	281.2	257,600	257,600
36	84.3	281.0	257,600	257,600
38	83.9	280.8	257,600	257,600
40	83.4	280.5	257,600	257,600
45	82.4	279.8	257,600	257,600
50	81.3	279.1	254,600	254,600
55	80.3	278.2	246,100	246,100
60	79.2	277.2	235,800	235,800
65	78.2	276.1	217,000	225,400
70	77.1	275.0	186,300	214,500
75	76.0	273.7	160,000	202,500
80	75.0	272.4	137,200	190,300
85	73.9	270.9	117,300	178,500
90	72.8	269.3	99,600	167,000
95	71.7	267.7	84,000	155,800
100	70.6	265.9	70,000	144,900
105	69.5	264.0	57,400	134,300
110	68.3	262.0	46,000	123,900
115	67.2	259.9	35,600	112,200
120	66.1	257.6	26,100	100,700
125	64.9	255.3	17,400	90,300
130	63.8	252.8		80,700
135	62.6	250.2		71,900
140	61.4	247.4		63,800
145	60.2	244.6		56,300
150	59.0	241.5		49,300
160	56.5	235.0		35,100
170	54.0	227.9		20,100

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ASME B30.5

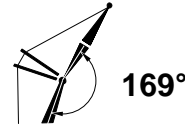
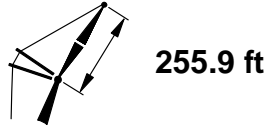


177.2 ft				
ft	°	ft	lb	lb
24	85.0	183.3	496,600	496,600
26	84.3	183.1	494,800	494,800
28	83.7	182.8	493,000	493,000
30	83.0	182.6	491,200	491,200
32	82.4	182.3	489,500	489,500
34	81.7	182.0	487,700	487,700
36	81.1	181.6	486,000	486,000
38	80.4	181.2	475,000	475,000
40	79.8	180.9	458,900	458,900
45	78.1	179.8	391,500	458,900
50	76.4	178.5	326,000	458,900
55	74.8	177.1	273,600	418,800
60	73.1	175.6	230,700	372,400
65	71.4	173.9	194,900	323,800
70	69.6	172.0	164,700	283,500
75	67.9	169.9	138,800	249,500
80	66.1	167.7	116,300	220,500
85	64.3	165.3	96,700	195,400
90	62.5	162.6	79,300	173,500
95	60.6	159.8	63,900	154,300
100	58.7	156.7	50,100	137,200
105	56.8	153.4	37,700	121,900
110	54.8	149.9	26,500	108,200
115	52.8	146.1	16,300	95,900
120	50.7	142.0		84,600
125	48.5	137.5		74,400
130	46.3	132.7		65,000
135	44.0	127.6		56,400
140	41.5	121.9		48,500
145	39.0	115.8		41,200
150	36.2	109.0		32,400
160	30.1	93.0		12,600

196.9 ft				
ft	°	ft	lb	lb
26	84.9	202.9	445,000	445,000
28	84.3	202.7	443,800	443,800
30	83.7	202.4	442,600	442,600
32	83.2	202.2	441,400	441,400
34	82.6	201.9	440,100	440,100
36	82.0	201.6	438,900	438,900
38	81.4	201.2	437,700	437,700
40	80.8	200.9	436,600	436,600
45	79.3	199.9	396,100	424,100
50	77.8	198.8	330,400	424,100
55	76.3	197.6	277,900	415,000
60	74.8	196.2	235,000	372,400
65	73.3	194.7	199,200	327,800
70	71.8	193.0	168,900	287,400
75	70.2	191.2	142,900	253,300
80	68.6	189.2	120,400	224,200
85	67.1	187.0	100,700	199,000
90	65.5	184.7	83,400	177,100
95	63.8	182.3	67,900	157,800
100	62.2	179.6	54,100	140,700
105	60.5	176.7	41,700	125,400
110	58.8	173.7	30,500	111,600
115	57.1	170.4	20,200	99,200
120	55.3	167.0	10,900	87,900
125	53.5	163.2		77,600
130	51.6	159.3		68,200
135	49.7	155.0		59,600
140	47.7	150.5		51,600
145	45.7	145.6		44,300
150	43.6	140.3		37,400
160	39.1	128.5		23,100

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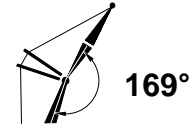
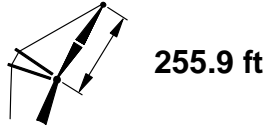


216.5 ft				
ft	°	ft	lb	lb
28	84.8	222.5	397,800	397,800
30	84.3	222.3	397,000	397,000
32	83.8	222.0	396,200	396,200
34	83.2	221.8	395,400	395,400
36	82.7	221.5	394,600	394,600
38	82.2	221.2	393,800	393,800
40	81.6	220.9	393,000	393,000
45	80.3	220.0	385,400	385,400
50	79.0	219.0	333,600	373,400
55	77.6	217.9	281,000	361,800
60	76.2	216.6	238,000	350,400
65	74.9	215.2	202,200	330,700
70	73.5	213.7	171,800	290,200
75	72.1	212.1	145,800	256,100
80	70.7	210.3	123,300	226,900
85	69.3	208.4	103,600	201,700
90	67.8	206.3	86,200	179,700
95	66.4	204.1	70,800	160,300
100	64.9	201.8	56,900	143,200
105	63.4	199.2	44,500	127,800
110	61.9	196.6	33,200	114,000
115	60.4	193.7	23,000	101,600
120	58.9	190.7	13,600	90,300
125	57.3	187.4		80,000
130	55.7	184.0		70,500
135	54.1	180.4		61,900
140	52.4	176.5		53,900
145	50.7	172.4		46,500
150	48.9	168.0		39,600
160	45.2	158.4		25,200
170	41.3	147.4		12,100

236.2 ft				
ft	°	ft	lb	lb
30	84.8	242.1	342,500	342,500
32	84.3	241.8	342,500	342,500
34	83.8	241.6	342,500	342,500
36	83.3	241.3	342,500	342,500
38	82.8	241.1	342,500	342,500
40	82.3	240.8	342,500	342,500
45	81.1	240.0	336,800	336,800
50	79.9	239.1	326,300	326,300
55	78.6	238.0	283,200	316,400
60	77.4	236.9	240,100	306,500
65	76.2	235.6	204,200	296,600
70	74.9	234.3	173,900	286,800
75	73.6	232.8	147,800	258,100
80	72.4	231.2	125,300	228,900
85	71.1	229.4	105,500	203,600
90	69.8	227.6	88,100	181,600
95	68.5	225.6	72,600	162,100
100	67.2	223.5	58,800	144,900
105	65.8	221.2	46,300	129,600
110	64.5	218.8	35,000	115,700
115	63.1	216.2	24,800	103,300
120	61.7	213.5	15,400	91,900
125	60.3	210.6		81,600
130	58.9	207.6		72,100
135	57.5	204.4		63,400
140	56.0	201.0		55,400
145	54.5	197.4		48,000
150	53.0	193.7		41,100
160	49.9	185.4		26,500
170	46.6	176.2		13,300

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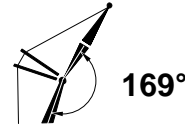


255.9 ft				
ft	°	ft	lb	lb
32	84.7	261.6	293,600	293,600
34	84.3	261.4	293,600	293,600
36	83.8	261.2	293,600	293,600
38	83.4	260.9	293,600	293,600
40	82.9	260.7	293,600	293,600
45	81.8	259.9	293,200	293,200
50	80.7	259.1	284,300	284,300
55	79.5	258.1	275,700	275,700
60	78.4	257.1	241,900	267,200
65	77.2	255.9	205,900	255,500
70	76.1	254.7	175,500	243,800
75	74.9	253.3	149,500	232,200
80	73.8	251.8	126,900	220,400
85	72.6	250.3	107,100	205,200
90	71.4	248.5	89,700	183,100
95	70.2	246.7	74,200	163,700
100	69.0	244.8	60,300	146,400
105	67.8	242.7	47,800	131,000
110	66.6	240.5	36,600	117,200
115	65.3	238.2	26,300	104,700
120	64.1	235.8	16,900	93,300
125	62.8	233.2		83,000
130	61.6	230.5		73,500
135	60.3	227.6		64,800
140	59.0	224.6		56,700
145	57.6	221.4		49,300
150	56.3	218.0		42,400
160	53.5	210.8		27,500
170	50.7	202.8		14,400

275.6 ft				
ft	°	ft	lb	lb
34	84.7	281.2	251,000	251,000
36	84.3	281.0	251,000	251,000
38	83.9	280.8	251,000	251,000
40	83.4	280.5	251,000	251,000
45	82.4	279.8	251,000	251,000
50	81.3	279.1	246,100	246,100
55	80.3	278.2	236,800	236,800
60	79.2	277.2	226,400	226,400
65	78.2	276.1	206,700	215,800
70	77.1	275.0	176,300	204,700
75	76.0	273.7	150,200	192,200
80	75.0	272.4	127,600	180,000
85	73.9	270.9	107,800	168,000
90	72.8	269.3	90,300	156,400
95	71.7	267.7	74,800	145,100
100	70.6	265.9	60,900	134,200
105	69.5	264.0	48,400	123,400
110	68.3	262.0	37,100	113,000
115	67.2	259.9	26,800	102,800
120	66.1	257.6	17,400	92,900
125	64.9	255.3		83,300
130	63.8	252.8		74,000
135	62.6	250.2		64,900
140	61.4	247.4		56,100
145	60.2	244.6		47,500
150	59.0	241.5		39,200
160	56.5	235.0		23,300

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ASME B30.5

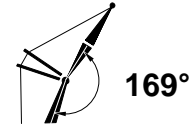


216.5 ft				
ft	°	ft	lb	lb
28	84.8	222.5	390,800	390,800
30	84.3	222.3	390,000	390,000
32	83.8	222.0	389,200	389,200
34	83.2	221.8	388,300	388,300
36	82.7	221.5	387,500	387,500
38	82.2	221.2	386,600	386,600
40	81.6	220.9	385,800	385,800
45	80.3	220.0	377,700	377,700
50	79.0	219.0	322,800	365,600
55	77.6	217.9	270,700	353,900
60	76.2	216.6	228,000	342,400
65	74.9	215.2	192,400	322,700
70	73.5	213.7	162,300	282,500
75	72.1	212.1	136,500	248,500
80	70.7	210.3	114,200	219,500
85	69.3	208.4	94,600	194,500
90	67.8	206.3	77,400	172,600
95	66.4	204.1	62,000	153,400
100	64.9	201.8	48,300	136,300
105	63.4	199.2	36,000	121,100
110	61.9	196.6	24,800	107,400
115	60.4	193.7	14,600	95,100
120	58.9	190.7		83,800
125	57.3	187.4		73,600
130	55.7	184.0		64,200
135	54.1	180.4		55,600
140	52.4	176.5		47,700
145	50.7	172.4		40,300
150	48.9	168.0		32,100
160	45.2	158.4		17,300

236.2 ft				
ft	°	ft	lb	lb
30	84.8	242.1	336,700	336,700
32	84.3	241.8	336,700	336,700
34	83.8	241.6	336,700	336,700
36	83.3	241.3	336,700	336,700
38	82.8	241.1	336,700	336,700
40	82.3	240.8	336,700	336,700
45	81.1	240.0	329,200	329,200
50	79.9	239.1	318,700	318,700
55	78.6	238.0	273,200	308,700
60	77.4	236.9	230,500	298,600
65	76.2	235.6	194,800	288,700
70	74.9	234.3	164,700	278,000
75	73.6	232.8	138,900	250,800
80	72.4	231.2	116,500	221,800
85	71.1	229.4	96,900	196,700
90	69.8	227.6	79,600	174,800
95	68.5	225.6	64,300	155,500
100	67.2	223.5	50,500	138,400
105	65.8	221.2	38,100	123,100
110	64.5	218.8	27,000	109,400
115	63.1	216.2	16,800	97,000
120	61.7	213.5		85,700
125	60.3	210.6		75,500
130	58.9	207.6		66,100
135	57.5	204.4		57,400
140	56.0	201.0		49,500
145	54.5	197.4		42,000
150	53.0	193.7		33,700
160	49.9	185.4		18,900

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ft	°	ft	lb	lb
32	84.7	261.6	287,700	287,700
34	84.3	261.4	287,700	287,700
36	83.8	261.2	287,700	287,700
38	83.4	260.9	287,700	287,700
40	82.9	260.7	287,700	287,700
45	81.8	259.9	285,700	285,700
50	80.7	259.1	276,700	276,700
55	79.5	258.1	268,200	268,200
60	78.4	257.1	232,500	258,700
65	77.2	255.9	196,800	246,800
70	76.1	254.7	166,700	235,000
75	74.9	253.3	140,800	223,300
80	73.8	251.8	118,400	211,400
85	72.6	250.3	98,800	198,500
90	71.4	248.5	81,500	176,600
95	70.2	246.7	66,100	157,300
100	69.0	244.8	52,400	140,100
105	67.8	242.7	40,000	124,800
110	66.6	240.5	28,800	111,100
115	65.3	238.2	18,600	98,600
120	64.1	235.8		87,400
125	62.8	233.2		77,100
130	61.6	230.5		67,600
135	60.3	227.6		59,000
140	59.0	224.6		51,000
145	57.6	221.4		43,200
150	56.3	218.0		35,000
160	53.5	210.8		20,200

ft	°	ft	lb	lb
34	84.7	281.2	244,900	244,900
36	84.3	281.0	244,900	244,900
38	83.9	280.8	244,900	244,900
40	83.4	280.5	244,900	244,900
45	82.4	279.8	244,400	244,400
50	81.3	279.1	236,400	236,400
55	80.3	278.2	226,100	226,100
60	79.2	277.2	215,800	215,800
65	78.2	276.1	197,900	205,000
70	77.1	275.0	167,700	193,300
75	76.0	273.7	141,800	180,900
80	75.0	272.4	119,300	168,800
85	73.9	270.9	99,700	156,900
90	72.8	269.3	82,400	145,400
95	71.7	267.7	67,000	134,200
100	70.6	265.9	53,200	123,300
105	69.5	264.0	40,800	112,600
110	68.3	262.0	29,600	102,200
115	67.2	259.9	19,300	92,000
120	66.1	257.6	10,000	82,200
125	64.9	255.3		72,600
130	63.8	252.8		63,300
135	62.6	250.2		54,300
140	61.4	247.4		45,500
145	60.2	244.6		37,000
150	59.0	241.5		28,600
160	56.5	235.0		12,800