

Liftcrane Luffing Jib Capacities

Luffing Jib No. 135A on
 Boom No. B20:350
 75,200 lb Crane Counterweight
 0 lb Carbody Counterweight
 360 Degree Rating

MLC150-1 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.

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 2,500 lb minimum weight suspended beneath luffing jib point. Capacities indicated by (c) require 6,000 lb minimum weight suspended beneath luffing jib point. Capacities indicated by (d) require 11,000 lb minimum weight suspended beneath luffing jib point. **Caution: Do not luff into areas indicated by (b), (c), or (d) without required minimum weights.** *Luffing jib may not luff down and luffing jib hoist wire rope may go slack. Luffing jib hoist wire rope may overhaul 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 Boom Rigging No. 80117859, Luffing Jib Rigging No. 80117862, Wire Rope Specification chart No. 9854-A, Counterweight Arrangements chart No. 9828-A, Luffing Jib Raising Procedure chart No. 9851-A, and Wind Conditions chart No. 9853-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. 9852-A.



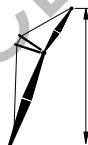
OPERATING RADIUS: Operating radius is horizontal distance from axis of rotation to center of vertical hoist line or load block. Boom angle and luffing jib angle are an indication of operating radius. In all cases, operating radius shall govern capacity.



BOOM ANGLE: Boom angle in degrees ($^{\circ}$) is angle between horizontal and centerline of boom butt and inserts.



LUFFING JIB ANGLE: Luffing jib angle in degrees ($^{\circ}$) is angle between horizontal and centerline of luffing jib butt and inserts.



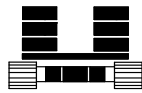
LUFFING JIB POINT ELEVATION: Luffing jib point elevation is vertical distance from ground level to centerline of luffing jib point shaft.

MACHINE EQUIPMENT: Machine equipped with 26 ft 2 in. crawlers, 48 in. treads, 17 ft 5 in. gantry, 10 part boom hoist reeving, boom straps, 8 part luffing jib hoist reeving, two 1-1/2 in. luffing jib pendants and backstays, 75,200 lb crane counterweight, and 0 lb carbody counterweight.

Explanation of Symbols



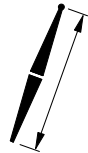
Luffing Jib No. 135A
+
Boom No. B20:350



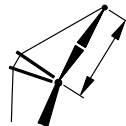
Crane Counterweight
+
Carbody Counterweight



360 Degree Rating



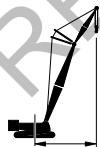
Boom Length



Luffing Jib Length



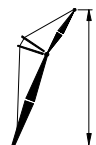
Boom Angle
(see page 1)



Operating Radius
(see page 1)



Luffing Jib Angle
(see page 1)



Luffing Jib Point Elevation
(see page 1)



Lifting Capacities
(see page 1)

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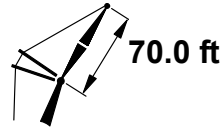
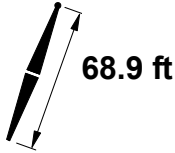
REFERENCE ONLY!

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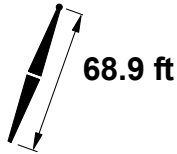
75,200 lb
+
0 lb



	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
28	75.0	143.5	108,800 d						28	
30	73.3	143.0	108,800 d						30	
32	71.6	142.3	104,900 d						32	
34	69.8	141.6	100,400 d						34	
36	68.1	140.9	95,500 c						36	
38	66.3	140.0	88,600 c	70.5	141.3	85,400 d			38	
40	64.5	139.1	82,600 c	68.8	140.6	79,600 c			40	
42	62.7	138.1	77,300 c	67.0	139.8	74,500 c			42	
44	60.8	137.0	72,600 c	65.2	138.9	70,000 c			44	
45	59.0	136.5	70,500 c	64.0	138.4	68,000 c	67.5	139.4	66,100 c	45
46	58.9	135.9	68,500 b	63.4	137.9	66,000 c	66.6	139.0	64,200 c	46
48	57.0	134.6	64,700 b	61.6	136.9	62,400 c	64.8	138.0	60,600 c	48
50	55.0	133.3	61,300 b	59.7	135.8	59,100 b	63.0	137.1	57,500 c	50
55	49.9	129.4	54,200 b	54.8	132.6	52,200 b	58.3	134.3	50,700 b	55
56	48.0	128.5	53,000 b	53.0	131.8	51,100 b	57.0	133.6	49,700 b	56
60	44.3	124.8	48,400	49.6	128.7	46,600 b	53.4	130.9	45,300 b	60
65	38.0	119.1	43,600	44.0	124.0	42,100	48.1	126.8	40,900 b	65
67	34.8	116.1	42,000	41.2	121.7	40,500	45.6	124.8	39,400 b	67
70	30.8	111.8	39,600	37.8	118.2	38,200	42.3	121.8	37,100	70
75	21.5	101.6	36,200	30.5	110.8	34,900	35.8	115.6	33,900	75
78	12.0	90.5	34,300	24.6	104.6	33,200	30.8	110.8	32,300	78
79	9.0	86.9	33,700	22.8	102.5	32,600	29.4	109.2	31,700	79
80				21.0	100.5	32,000	28.1	107.6	31,100	80
84				7.9	84.9	29,900	19.2	98.1	29,200	84
85							17.5	95.7	28,700	85
88							4.5	80.2	27,200	88
90										90
94										94
95										95
99										99
100										100
105										105

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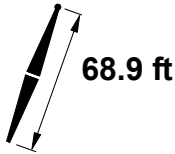
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
28										28
30										30
32										32
34										34
36										36
38										38
40										40
42										42
44										44
45										45
46										46
48										48
50										50
55										55
56	62.9	135.5	47,200 c							56
60	59.1	133.3	43,100 b							60
65	54.2	130.0	38,900 b							65
67	51.6	128.4	37,500 b	57.9	130.5	35,500 b				67
70	49.0	126.0	35,300 b	54.9	128.5	33,600 b				70
75	43.3	121.2	32,300	49.7	124.6	30,700 b				75
78	38.8	117.7	30,700	46.0	121.8	29,200 b	52.4	124.1	27,600 b	78
79	37.4	116.5	30,200	45.0	120.9	28,700 b	51.0	123.3	27,200 b	79
80	37.0	115.3	29,700	44.1	119.9	28,200 b	50.3	122.5	26,700 b	80
84	30.4	109.2	27,800	38.4	115.3	26,400 b	45.2	118.9	25,000 b	84
85	29.5	107.7	27,400	37.9	114.2	26,000	44.7	118.0	24,600 b	85
88	23.0	101.1	26,100	32.8	109.8	24,800	40.4	114.6	23,500 b	88
90	19.6	96.7	25,300	30.6	106.9	24,000	38.6	112.3	22,800	90
94	2.5	76.3	23,600	22.8	98.6	22,600	32.4	106.6	21,500	94
95				21.3	96.6	22,300	31.4	105.2	21,200	95
99				8.5	81.5	20,900	23.8	97.3	20,000	99
100							22.4	95.3	19,700	100
105							4.9	74.7	18,200	105

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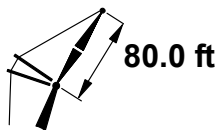
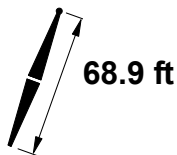
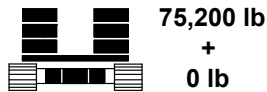
75,200 lb
+
0 lb



	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
31	74.7	153.1	99,400 d							31
32	73.9	152.8	99,400 d							32
34	72.4	152.2	97,200 d							34
36	70.9	151.5	93,300 c							36
38	69.4	150.8	88,400 c							38
40	67.9	150.0	82,400 c							40
41	66.5	149.6	79,700 c	70.8	150.9	76,700 c				41
42	66.3	149.2	77,100 c	70.0	150.5	74,200 c				42
44	64.7	148.3	72,400 c	68.5	149.8	69,700 c				44
46	63.2	147.3	68,200 b	66.9	149.0	65,700 c				46
48	61.5	146.3	64,500 b	65.4	148.1	62,100 c				48
49	60.0	145.7	62,800 b	64.0	147.6	60,500 c	67.4	148.5	58,700 c	49
50	59.9	145.1	61,100 b	63.8	147.1	58,800 b	66.6	148.1	57,200 c	50
55	55.7	142.0	53,900 b	59.7	144.4	51,900 b	62.6	145.7	50,400 b	55
60	51.2	138.3	48,200	55.5	141.3	46,400 b	58.5	142.9	45,000 b	60
61	50.0	137.4	47,200	54.2	140.5	45,500 b	57.2	142.3	44,100 b	61
65	46.4	133.9	43,400	51.0	137.5	41,800	54.2	139.6	40,600 b	65
70	41.3	128.7	39,500	46.2	133.1	38,000	49.7	135.7	36,900	70
73	37.4	124.9	37,400	43.0	130.0	36,000	46.0	132.9	34,900	73
75	35.5	122.4	36,100	41.0	127.9	34,700	44.8	131.1	33,700	75
80	28.8	114.4	33,100	35.2	121.5	31,900	39.4	125.5	30,900	80
84	21.6	105.6	31,100	29.4	115.1	29,900	34.2	120.1	29,000	84
85	20.1	103.4	30,500	28.4	113.5	29,400	33.4	118.8	28,600	85
89	8.4	87.6	28,600	20.8	104.5	27,700	27.4	111.8	26,900	89
90				19.7	102.2	27,200	26.2	110.0	26,400	90
94				7.4	85.6	25,500	18.0	99.7	24,900	94
95							16.3	97.2	24,500	95
98							4.3	80.6	23,400	98
100										100
104										104
105										105
109										109
110										110
115										115

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ASME B30.5



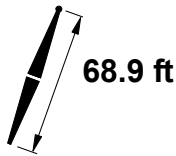
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft		
31									31	
32									32	
34									34	
36									36	
38									38	
40									40	
41									41	
42									42	
44									44	
46									46	
48									48	
49									49	
50									50	
55									55	
60									60	
61	62.5	144.2	41,900 b						61	
65	59.2	141.9	38,600 b						65	
70	55.0	138.7	35,000 b						70	
73	51.6	136.4	33,200 b	57.3	138.5	31,400 b			73	
75	50.5	134.9	32,000	55.6	137.2	30,300 b			75	
80	45.6	130.4	29,400	51.1	133.5	27,800			80	
84	41.0	126.1	27,600	47.0	129.9	26,100	52.5	132.1	24,700 b	84
85	40.4	125.0	27,100	46.3	129.1	25,700	51.6	131.4	24,300	85
89	35.2	119.8	25,500	42.0	124.9	24,200	47.0	127.9	22,800	89
90	34.5	118.5	25,100	41.2	123.8	23,800	46.8	127.1	22,500	90
94	28.4	111.9	23,700	36.2	118.8	22,400	42.0	122.9	21,200	94
95	27.5	110.2	23,300	35.4	117.5	22,100	41.7	121.9	20,900	95
98	21.6	103.1	22,300	30.8	112.7	21,200	37.4	118.2	20,000	98
100	18.4	98.4	21,700	28.6	109.5	20,600	36.0	115.7	19,400	100
104	2.3	76.5	20,300	20.8	100.6	19,400	30.2	109.5	18,400	104
105				19.9	98.4	19,100	29.3	107.9	18,100	105
109				7.9	82.2	18,000	21.8	99.4	17,100	109
110							20.9	97.2	16,900	110
115							4.6	75.1	15,700	115

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ASME B30.5



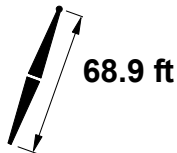
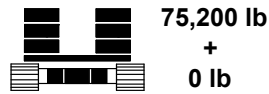
75,200 lb
+
0 lb



	87°			83°			80°			
34	74.4	162.6	89,900 d							34
36	73.1	162.0	89,700 c							36
38	71.8	161.4	87,100 c							38
40	70.4	160.7	82,200 c							40
42	69.1	160.0	76,900 c							42
44	67.7	159.2	72,200 c	71.0	160.4	69,500 c				44
46	66.3	158.4	68,000 b	69.6	159.7	65,500 c				46
48	64.9	157.4	64,300 b	68.3	158.9	61,900 c				48
50	63.5	156.5	60,900 b	66.9	158.1	58,600 b				50
52	61.4	155.4	58,100 b	64.8	157.2	55,900 b	68.0	158.1	54,100 c	52
55	59.9	153.8	53,800 b	63.4	155.8	51,700 b	65.9	156.8	50,200 b	55
60	56.2	150.7	48,000	59.8	153.1	46,200 b	62.3	154.4	44,800 b	60
65	52.2	147.1	43,300	56.0	150.0	41,600	58.7	151.6	40,400 b	65
70	48.1	142.9	39,300	52.1	146.3	37,800	54.9	148.3	36,700	70
75	43.6	138.0	36,000	47.9	142.1	34,600	50.9	144.5	33,500	75
78	40.0	134.6	34,200	44.6	139.2	32,900	47.6	141.9	31,900	78
80	38.8	132.3	33,000	43.5	137.2	31,800	46.7	140.1	30,800	80
85	33.4	125.5	30,500	38.6	131.5	29,300	42.1	135.0	28,400	85
90	27.1	116.9	28,300	33.2	124.6	27,200	37.1	129.0	26,300	90
95	18.9	105.1	26,300	26.8	115.9	25,200	31.5	121.7	24,500	95
99	7.9	88.4	24,700	19.6	106.3	23,900	25.4	114.1	23,100	99
100				18.5	103.9	23,500	24.7	112.3	22,800	100
104				6.9	86.2	22,200	16.8	101.3	21,600	104
105							15.4	98.6	21,300	105
108							4.0	81.0	20,300	108
110										110
114										114
115										115
119										119
120										120
125										125

MLC150-1 S-1

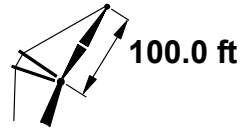
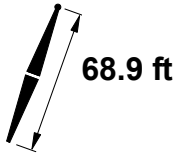
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft		
34									34	
36									36	
38									38	
40									40	
42									42	
44									44	
46									46	
48									48	
50									50	
52									52	
55									55	
60									60	
65	63.0	153.4	38,300 b						65	
70	59.3	150.6	34,800 b						70	
75	55.5	147.4	31,800						75	
78	52.6	145.2	30,200	57.6	147.2	28,600 b			78	
80	51.6	143.7	29,200	56.1	145.9	27,600			80	
85	47.4	139.4	26,900	52.1	142.3	25,500			85	
90	42.9	134.5	25,000	48.0	138.1	23,600	52.5	140.2	22,300	90
95	38.0	128.6	23,200	43.5	133.2	21,900	48.4	136.0	20,700	95
99	33.0	122.9	21,900	39.0	128.6	20,700	44.8	132.2	19,500	99
100	32.5	121.5	21,600	38.7	127.5	20,400	44.0	131.2	19,200	100
104	26.4	114.4	20,500	34.0	122.0	19,300	40.0	126.7	18,200	104
105	25.9	112.6	20,200	33.3	120.6	19,100	39.2	125.6	18,000	105
108	20.2	105.0	19,400	28.8	115.4	18,300	35.4	121.5	17,300	108
110	17.3	100.0	18,800	26.9	112.0	17,800	33.9	118.8	16,800	110
114	2.2	76.7	17,800	19.6	102.5	16,900	28.2	112.1	15,900	114
115				18.7	100.1	16,700	27.6	110.4	15,700	115
119				7.5	82.9	15,800	20.6	101.3	14,900	119
120							19.7	99.0	14,700	120
125							4.3	75.5	13,700	125

MLC150-1 S-1

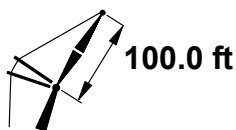
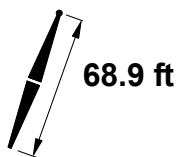
ASME B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
36	74.9	172.5	81,300 c							36
38	73.7	171.9	80,100 c							38
40	72.5	171.3	78,600 c							40
42	71.3	170.6	76,600 c							42
44	70.0	169.9	72,000 c							44
46	68.8	169.2	67,800 b							46
48	67.6	168.4	64,100 b	70.5	169.6	61,600 c				48
50	66.3	167.5	60,700 b	69.3	168.9	58,300 b				50
55	63.2	165.2	53,500 b	66.2	166.9	51,400 b				55
56	62.2	164.6	52,400 b	65.4	166.4	50,300 b	67.8	167.3	48,700 b	56
60	59.9	162.5	47,800	63.0	164.5	45,900 b	65.3	165.6	44,500 b	60
65	56.5	159.4	43,000	59.8	161.8	41,300	62.1	163.1	40,100 b	65
70	53.0	155.8	39,100	56.4	158.6	37,500	58.8	160.3	36,400	70
75	49.4	151.8	35,700	52.9	155.1	34,300	55.4	157.0	33,200	75
80	45.5	147.2	32,800	49.2	151.1	31,500	51.8	153.3	30,500	80
83	42.6	144.0	31,300	46.6	148.3	30,000	49.2	150.8	29,100	83
85	41.3	141.9	30,300	45.3	146.4	29,100	48.1	149.1	28,100	85
90	36.7	135.7	28,100	41.1	141.1	26,900	44.1	144.3	26,100	90
95	31.6	128.4	26,100	36.5	134.9	25,000	39.8	138.8	24,200	95
96	29.8	126.6	25,800	35.0	133.4	24,700	38.2	137.5	23,900	96
100	25.7	119.2	24,300	31.4	127.5	23,300	35.1	132.3	22,600	100
105	17.9	106.7	22,700	25.4	118.2	21,800	29.8	124.4	21,100	105
109	7.5	89.0	21,500	18.6	108.1	20,700	24.2	116.4	20,000	109
110				17.6	105.5	20,400	23.4	114.4	19,700	110
114				6.6	86.8	19,300	15.8	102.8	18,700	114
115							14.6	99.9	18,500	115
118							3.8	81.3	17,700	118
120										120
124										124
125										125
129										129
130										130
135										135

MLC150-1 S-1

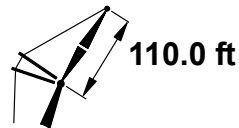
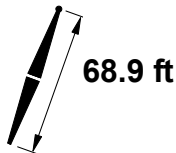
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
36										36
38										38
40										40
42										42
44										44
46										46
48										48
50										50
55										55
56										56
60										60
65										65
70	62.7	162.0	34,400 b							70
75	59.4	159.3	31,400							75
80	56.0	156.1	28,900							80
83	53.2	153.9	27,500	57.8	155.9	25,900				83
85	52.5	152.5	26,600	56.5	154.6	25,100				85
90	48.8	148.4	24,600	53.0	151.0	23,200				90
95	44.8	143.7	22,900	49.3	147.0	21,600				95
96	43.2	142.6	22,600	48.2	146.1	21,300	52.6	148.2	20,000	96
100	40.6	138.3	21,300	45.4	142.4	20,100	49.7	144.9	18,900	100
105	36.0	131.9	19,900	41.2	137.1	18,800	45.8	140.4	17,600	105
109	31.0	125.9	18,900	37.0	132.1	17,800	41.8	136.2	16,700	109
110	30.8	124.3	18,600	36.6	130.9	17,500	41.6	135.1	16,500	110
114	25.2	116.7	17,700	32.0	125.0	16,700	37.8	130.3	15,600	114
115	24.6	114.8	17,500	31.5	123.5	16,400	37.1	129.1	15,400	115
118	19.2	106.8	16,800	27.4	118.0	15,800	34.0	124.7	14,800	118
120	16.4	101.4	16,400	25.5	114.3	15,400	32.1	121.8	14,500	120
124	2.1	76.9	15,500	18.6	104.2	14,700	27.2	114.6	13,800	124
125				17.8	101.7	14,500	26.2	112.8	13,600	125
129				7.1	83.5	13,700	19.6	103.1	12,900	129
130							18.7	100.7	12,700	130
135							4.1	75.9	11,900	135

MLC150-1 S-1

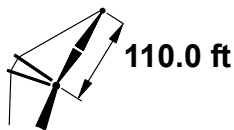
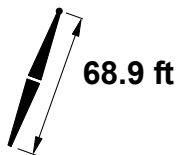
ASME B30.5



	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	lb	ft	ft
39	74.6	182.0	73,500 c							39
40	74.1	181.7	72,900 c							40
42	73.0	181.1	71,800 c							42
44	71.9	180.5	70,600 c							44
46	70.8	179.8	67,700 b							46
48	69.7	179.1	63,900 b							48
50	68.6	178.3	60,500 b							50
51	67.4	177.9	59,100 b	70.7	179.2	56,700 b				51
55	65.8	176.2	53,400 b	68.5	177.7	51,300 b				55
60	62.9	173.8	47,700	65.7	175.6	45,800 b	67.7	176.5	44,400 b	60
65	59.9	171.1	42,900	62.8	173.2	41,200	64.8	174.3	40,000	65
70	56.9	168.0	39,000	59.8	170.4	37,400	61.9	171.8	36,300	70
75	53.7	164.6	35,600	56.7	167.3	34,200	58.9	168.9	33,100	75
80	50.4	160.7	32,800	53.6	163.8	31,400	55.8	165.7	30,400	80
85	46.9	156.3	30,200	50.3	159.9	29,000	52.6	162.1	28,100	85
89	43.6	152.3	28,500	46.8	156.4	27,300	49.6	158.9	26,400	89
90	43.2	151.3	28,000	46.8	155.5	26,900	49.3	158.1	26,000	90
95	39.3	145.6	26,100	43.1	150.5	25,000	45.7	153.5	24,200	95
100	35.0	139.0	24,300	39.1	144.8	23,300	42.0	148.3	22,600	100
102	32.4	135.8	23,700	37.0	142.1	22,700	39.4	145.9	22,000	102
105	30.1	131.1	22,800	34.8	138.1	21,800	37.9	142.3	21,100	105
110	24.5	121.5	21,300	29.9	130.2	20,400	33.5	135.3	19,800	110
115	17.1	108.3	20,000	24.2	120.4	19,200	28.4	127.0	18,500	115
119	7.2	89.7	19,000	17.6	109.7	18,300	23.2	118.5	17,700	119
120				16.7	107.0	18,000	22.3	116.4	17,400	120
124				6.3	87.4	17,100	14.8	104.2	16,600	124
125							13.9	101.1	16,400	125
128							3.6	81.7	15,700	128
130										130
134										134
135										135
139										139
140										140
145										145

MLC150-1 S-1

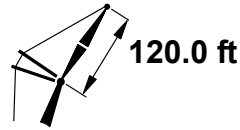
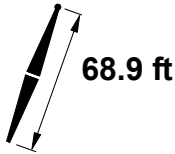
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft		
39									39	
40									40	
42									42	
44									44	
46									46	
48									48	
50									50	
51									51	
55									55	
60									60	
65									65	
70									70	
75	62.4	170.7	31,400						75	
80	59.4	167.9	28,800						80	
85	56.4	164.8	26,500						85	
89	53.6	162.0	25,000	57.4	163.9	23,500			89	
90	53.2	161.3	24,600	56.8	163.2	23,200			90	
95	49.9	157.3	22,800	53.6	159.8	21,500			95	
100	46.4	152.8	21,300	50.3	155.9	20,000			100	
102	44.4	150.8	20,700	48.4	154.1	19,500	52.7	156.2	18,300	102
105	42.6	147.7	19,900	46.8	151.4	18,700	50.7	153.8	17,600	105
110	38.6	141.9	18,600	43.2	146.4	17,500	47.2	149.4	16,400	110
115	34.2	135.1	17,500	39.2	140.7	16,400	43.5	144.5	15,400	115
119	30.0	128.6	16,600	35.0	135.4	15,600	39.8	140.0	14,600	119
120	29.3	127.0	16,400	34.9	134.1	15,400	39.6	138.8	14,400	120
124	24.2	118.9	15,600	30.8	127.8	14,700	35.8	133.6	13,800	124
125	23.4	116.9	15,400	30.0	126.2	14,500	35.3	132.3	13,600	125
128	18.2	108.5	14,900	26.4	120.4	14,000	32.0	127.7	13,100	128
130	15.6	102.8	14,500	24.3	116.5	13,600	30.5	124.6	12,800	130
134	2.0	77.0	13,800	17.6	105.9	13,000	25.2	117.0	12,200	134
135				16.9	103.2	12,800	24.9	115.1	12,000	135
139				6.7	84.1	12,200	18.4	104.9	11,400	139
140							17.8	102.3	11,300	140
145							3.9	76.2	10,600	145

MLC150-1 S-1

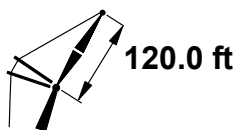
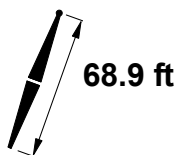
ASME B30.5



	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	lb	ft	
41	75.0	191.8	67,100 c						41	
42	74.5	191.5	66,500 c						42	
44	73.5	191.0	65,400 c						44	
46	72.5	190.4	64,400 b						46	
48	71.5	189.7	63,300 b						48	
50	70.5	189.0	60,300 b						50	
54	67.6	187.5	54,600 b	70.9	188.7	52,300 b			54	
55	67.9	187.1	53,200 b	70.4	188.4	51,000 b			55	
60	65.3	185.0	47,400	67.8	186.5	45,500 b			60	
64	62.6	183.0	43,600	65.4	184.7	41,900 b	67.6	185.6	40,500	64
65	62.7	182.5	42,700	65.2	184.3	41,000	67.1	185.2	39,700	65
70	59.9	179.8	38,700	62.5	181.8	37,200	64.4	183.0	36,000	70
75	57.1	176.7	35,400	59.8	179.1	33,900	61.8	180.4	32,800	75
79	54.6	174.0	33,100	57.4	176.6	31,700	59.4	178.1	30,700	79
80	54.2	173.3	32,500	57.0	176.0	31,100	59.0	177.6	30,100	80
85	51.2	169.5	30,000	54.1	172.6	28,700	56.2	174.4	27,800	85
90	48.1	165.2	27,800	51.1	168.8	26,600	53.3	170.9	25,700	90
94	44.8	161.4	26,200	47.8	165.3	25,100	50.6	167.7	24,300	94
95	44.8	160.5	25,900	48.0	164.5	24,700	50.2	166.9	23,900	95
100	41.3	155.1	24,100	44.7	159.7	23,100	47.0	162.5	22,300	100
105	37.6	149.1	22,600	41.2	154.3	21,600	43.7	157.6	20,800	105
108	34.6	144.9	21,700	38.6	150.7	20,700	41.2	154.2	20,000	108
110	33.4	142.1	21,100	37.4	148.2	20,200	40.1	152.0	19,500	110
115	28.8	133.8	19,900	33.3	141.2	19,000	36.2	145.6	18,300	115
120	23.4	123.6	18,700	28.6	132.8	17,800	32.0	138.3	17,200	120
125	16.4	109.7	17,600	23.1	122.5	16,800	27.2	129.5	16,200	125
129	6.9	90.3	16,700	17.4	111.3	16,000	22.2	120.6	15,400	129
130				16.0	108.5	15,800	21.3	118.3	15,200	130
134				6.0	87.9	15,000	14.6	105.5	14,500	134
135							13.3	102.3	14,400	135
138							3.5	82.0	13,800	138
140										140
144										144
145										145
149										149
150										150
155										155

MLC150-1 S-1

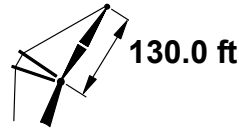
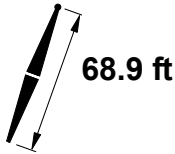
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
41										41
42										42
44										44
46										46
48										48
50										50
54										54
55										55
60										60
64										64
65										65
70										70
75										75
79	62.8	179.9	28,900							79
80	62.2	179.4	28,500							80
85	59.5	176.6	26,200							85
90	56.7	173.5	24,300							90
94	53.6	170.7	22,900	57.6	172.6	21,500				94
95	53.8	170.0	22,500	57.1	171.9	21,200				95
100	50.7	166.1	21,000	54.2	168.5	19,700				100
105	47.6	161.8	19,600	51.2	164.7	18,400				105
108	45.2	158.9	18,800	49.2	162.1	17,700	52.7	164.2	16,500	108
110	44.3	157.0	18,300	48.0	160.4	17,200	51.5	162.6	16,100	110
115	40.7	151.5	17,200	44.7	155.7	16,100	48.4	158.4	15,100	115
120	36.9	145.3	16,200	41.2	150.3	15,100	45.1	153.7	14,100	120
125	32.7	138.1	15,200	37.5	144.2	14,200	41.6	148.4	13,300	125
129	28.8	131.3	14,500	33.8	138.6	13,500	37.8	143.6	12,600	129
130	28.0	129.6	14,300	33.4	137.2	13,400	37.9	142.4	12,500	130
134	23.2	121.1	13,600	29.0	130.5	12,800	33.8	136.8	11,900	134
135	22.4	119.0	13,500	28.7	128.9	12,600	33.8	135.4	11,700	135
138	17.2	110.1	13,000	25.0	122.7	12,200	30.6	130.5	11,300	138
140	15.0	104.2	12,700	23.3	118.6	11,900	29.2	127.3	11,000	140
144	1.9	77.2	12,000	17.4	107.4	11,300	24.2	119.3	10,500	144
145				16.2	104.7	11,200	23.9	117.3	10,400	145
149				6.5	84.7	10,600	18.2	106.5	9,900	149
150							17.0	103.8	9,800	150
155							3.8	76.6	9,100	155

MLC150-1 S-1

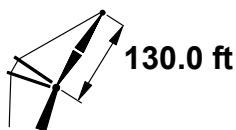
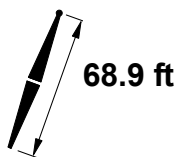
ASME B30.5



	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
44	74.8	201.4	50,800 c							44
46	73.9	200.8	50,300 b							46
48	72.9	200.2	49,900 b							48
50	72.0	199.6	49,500 b							50
55	69.7	197.8	48,500 b							55
57	68.2	197.1	48,000 b	71.0	198.3	48,500 b				57
60	67.3	195.9	47,200	69.6	197.2	45,300 b				60
65	64.9	193.7	42,500	67.2	195.2	40,700				65
67	63.2	192.7	40,900	65.8	194.3	39,200	68.0	195.2	37,900	67
70	62.5	191.2	38,500	64.8	193.0	36,900	66.5	193.9	35,700	70
75	59.9	188.4	35,200	62.3	190.5	33,700	64.1	191.6	32,600	75
80	57.4	185.4	32,300	59.8	187.7	30,900	61.6	189.1	29,900	80
84	54.6	182.7	30,300	57.4	185.3	29,000	59.4	186.8	28,000	84
85	54.7	182.0	29,800	57.2	184.7	28,500	59.1	186.2	27,600	85
90	51.9	178.3	27,600	54.6	181.3	26,400	56.5	183.1	25,500	90
95	49.1	174.2	25,700	51.8	177.6	24,500	53.8	179.6	23,700	95
99	46.6	170.5	24,300	48.6	174.2	23,200	51.4	176.5	22,400	99
100	46.1	169.6	23,900	49.0	173.4	22,900	51.0	175.8	22,100	100
105	43.0	164.5	22,400	46.0	168.8	21,400	48.1	171.5	20,600	105
110	39.6	158.8	21,000	42.8	163.7	20,000	45.1	166.8	19,300	110
114	36.6	153.7	19,900	39.6	159.1	19,000	41.8	162.5	18,300	114
115	36.0	152.4	19,700	39.5	158.0	18,800	41.9	161.5	18,100	115
120	32.1	145.0	18,500	35.9	151.5	17,700	38.5	155.6	17,000	120
125	27.7	136.3	17,500	31.9	144.1	16,600	34.8	148.8	16,000	125
130	22.5	125.6	16,500	27.5	135.3	15,700	30.7	141.1	15,100	130
135	15.7	111.2	15,500	22.2	124.5	14,800	26.1	131.8	14,200	135
139	6.6	90.9	14,800	16.4	112.8	14,100	21.2	122.5	13,600	139
140				15.4	109.8	14,000	20.5	120.2	13,400	140
144				5.8	88.4	13,300	13.6	106.8	12,800	144
145							12.8	103.5	12,700	145
148							3.3	82.3	12,200	148
150										150
154										154
155										155
159										159
160										160
165										165

MLC150-1 S-1

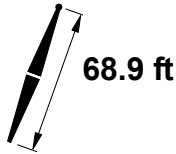
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
44										44
46										46
48										48
50										50
55										55
57										57
60										60
65										65
67										67
70										70
75										75
80										80
84	62.6	188.6	26,400							84
85	62.1	188.0	26,000							85
90	59.5	185.2	24,000							90
95	56.9	182.1	22,300							95
99	54.4	179.4	21,100	57.8	181.2	19,700				99
100	54.3	178.7	20,800	57.3	180.6	19,500				100
105	51.5	174.9	19,400	54.6	177.2	18,200				105
110	48.6	170.8	18,100	51.9	173.5	17,000				110
114	45.6	167.0	17,200	49.4	170.2	16,100	52.7	172.2	15,000	114
115	45.6	166.1	17,000	49.0	169.4	15,900	52.2	171.4	14,800	115
120	42.4	160.9	16,000	46.0	164.8	14,900	49.3	167.3	13,900	120
125	39.1	155.1	15,000	42.9	159.7	14,000	46.3	162.8	13,000	125
130	35.4	148.6	14,100	39.6	154.0	13,200	43.2	157.7	12,200	130
135	31.4	141.0	13,300	36.0	147.5	12,400	39.9	152.1	11,500	135
139	27.0	133.8	12,700	32.6	141.6	11,800	36.6	147.0	11,000	139
140	26.9	132.0	12,600	32.0	140.1	11,700	36.3	145.7	10,800	140
144	22.0	123.1	12,000	28.0	133.1	11,200	32.8	139.9	10,300	144
145	21.5	120.9	11,900	27.6	131.4	11,000	32.4	138.4	10,200	145
148	16.8	111.6	11,400	24.0	124.9	10,600	29.6	133.3	9,900	148
150	14.4	105.5	11,200	22.3	120.6	10,400	28.0	129.8	9,600	150
154	1.8	77.4	10,600	16.4	109.0	9,900	23.2	121.4	9,200	154
155				15.6	106.1	9,800	22.9	119.3	9,100	155
159				6.2	85.2	9,300	17.2	108.1	8,600	159
160							16.4	105.3	8,500	160
165							3.6	76.9	8,000	165

MLC150-1 S-1

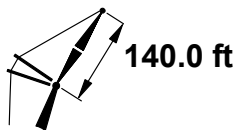
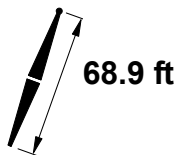
ASME B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
47	74.6	210.9	47,000 b							47
48	74.2	210.6	46,800 b							48
50	73.3	210.1	46,500 b							50
55	71.2	208.5	45,600							55
60	69.0	206.6	44,700							60
61	68.4	206.2	44,200	70.7	207.5	44,000				61
65	66.8	204.6	42,200	68.9	206.0	40,500				65
70	64.6	202.4	38,300	66.7	203.9	36,700				70
71	63.6	201.9	37,600	65.6	203.5	36,000	67.9	204.4	34,800	71
75	62.3	199.9	34,900	64.5	201.7	33,400	66.1	202.7	32,300	75
80	59.9	197.1	32,100	62.2	199.2	30,700	63.8	200.3	29,600	80
85	57.5	194.1	29,600	59.8	196.4	28,200	61.5	197.7	27,300	85
88	55.8	192.1	28,200	57.8	194.6	27,000	59.8	196.0	26,000	88
90	55.1	190.7	27,400	57.4	193.3	26,100	59.2	194.9	25,200	90
95	52.6	187.1	25,400	55.0	190.0	24,300	56.7	191.8	23,400	95
100	49.9	183.1	23,700	52.4	186.3	22,600	54.3	188.3	21,800	100
104	47.4	179.5	22,400	49.6	183.1	21,400	51.6	185.3	20,600	104
105	47.2	178.6	22,100	49.8	182.3	21,100	51.7	184.6	20,300	105
110	44.3	173.8	20,700	47.1	177.9	19,700	49.0	180.4	19,000	110
115	41.3	168.4	19,500	44.2	173.0	18,500	46.3	175.9	17,800	115
120	38.1	162.4	18,300	41.2	167.6	17,400	43.4	170.8	16,700	120
125	34.7	155.6	17,200	38.0	161.5	16,400	40.3	165.2	15,800	125
130	30.9	147.8	16,200	34.5	154.7	15,400	37.0	159.0	14,800	130
135	26.6	138.7	15,300	30.7	146.9	14,600	33.5	151.9	14,000	135
140	21.6	127.5	14,500	26.5	137.7	13,800	29.6	143.8	13,200	140
145	15.2	112.5	13,700	21.4	126.4	13,000	25.1	134.1	12,500	145
149	6.4	91.4	13,000	15.4	114.2	12,400	20.2	124.4	11,900	149
150				14.8	111.2	12,300	19.7	122.0	11,800	150
154				5.6	88.9	11,700	13.4	108.0	11,200	154
155							12.3	104.6	11,100	155
158							3.2	82.5	10,700	158
160										160
164										164
165										165
169										169
170										170
175										175

MLC150-1 S-1

ASME B30.5



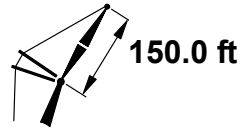
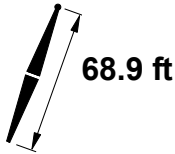
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
47										47
48										48
50										50
55										55
60										60
61										61
65										65
70										70
71										71
75										75
80										80
85										85
88	62.8	197.8	24,500							88
90	61.9	196.7	23,700							90
95	59.6	193.9	22,000							95
100	57.2	190.8	20,400							100
104	54.6	188.1	19,300	58.0	189.9	18,100				104
105	54.7	187.4	19,100	57.5	189.3	17,800				105
110	52.1	183.7	17,800	55.0	185.9	16,600				110
115	49.5	179.7	16,700	52.5	182.3	15,600				115
120	46.8	175.2	15,700	49.9	178.2	14,600	52.8	180.2	13,500	120
125	43.9	170.2	14,700	47.1	173.8	13,700	50.1	176.2	12,700	125
130	40.8	164.7	13,800	44.3	168.9	12,900	47.4	171.8	11,900	130
135	37.6	158.6	13,000	41.3	163.5	12,100	44.6	167.0	11,200	135
140	34.1	151.7	12,300	38.1	157.5	11,400	41.6	161.6	10,500	140
145	30.3	143.7	11,600	34.6	150.7	10,700	38.4	155.6	9,900	145
149	26.0	136.2	11,100	30.8	144.5	10,200	34.8	150.3	9,400	149
150	25.9	134.4	10,900	30.8	142.9	10,100	35.0	148.9	9,300	150
154	21.0	125.1	10,500	26.8	135.6	9,700	31.6	142.8	8,900	154
155	20.7	122.8	10,300	26.6	133.8	9,500	31.2	141.3	8,800	155
158	15.8	113.1	10,000	23.0	127.0	9,200	28.6	135.9	8,500	158
160	13.8	106.7	9,700	21.5	122.6	9,000	27.0	132.3	8,300	160
164	1.8	77.5	9,200	15.4	110.4	8,600	23.0	123.5	7,900	164
165				15.0	107.4	8,500	22.1	121.3	7,800	165
169				6.0	85.8	8,000	16.4	109.6	7,400	169
170							15.8	106.7	7,300	170
175							3.5	77.2	6,800	175

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ASME B30.5



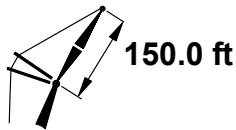
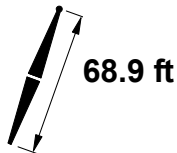
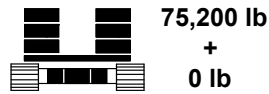
75,200 lb
+
0 lb



ft	87°			83°			80°			ft
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
49	74.9	220.7	43,700 b							49
50	74.5	220.5	43,500 b							50
55	72.5	219.0	42,600							55
60	70.5	217.3	41,900							60
64	68.4	215.8	40,600	70.8	217.0	41,200				64
65	68.4	215.4	40,300	70.4	216.7	40,300				65
70	66.4	213.3	38,200	68.4	214.8	36,500				70
75	64.3	211.0	34,800	66.3	212.7	33,300	67.8	213.5	32,200	75
80	62.1	208.5	31,900	64.2	210.4	30,500	65.7	211.4	29,500	80
85	59.9	205.8	29,400	62.0	207.8	28,100	63.6	209.0	27,100	85
90	57.7	202.7	27,200	59.9	205.1	26,000	61.4	206.4	25,100	90
93	55.8	200.7	26,100	57.8	203.2	24,900	59.8	204.7	24,000	93
95	55.4	199.4	25,300	57.6	202.0	24,100	59.2	203.6	23,300	95
100	53.1	195.8	23,600	55.3	198.7	22,500	57.0	200.4	21,700	100
105	50.6	191.9	22,000	53.0	195.1	21,000	54.7	197.0	20,200	105
110	48.1	187.6	20,600	50.5	191.2	19,600	52.3	193.3	18,900	110
115	45.5	182.9	19,400	48.0	186.8	18,400	49.8	189.3	17,700	115
120	42.8	177.8	18,200	45.4	182.1	17,300	47.3	184.9	16,700	120
125	39.9	172.1	17,100	42.6	177.0	16,300	44.6	180.0	15,700	125
126	38.4	170.8	17,000	41.4	175.8	16,100	43.4	179.0	15,500	126
130	36.8	165.7	16,200	39.7	171.2	15,400	41.8	174.7	14,800	130
135	33.5	158.6	15,300	36.7	164.9	14,500	38.9	168.8	13,900	135
140	29.8	150.5	14,400	33.3	157.7	13,700	35.7	162.3	13,100	140
145	25.7	141.0	13,700	29.7	149.6	12,900	32.3	154.9	12,400	145
150	20.9	129.4	12,900	25.5	140.0	12,200	28.5	146.4	11,700	150
155	14.6	113.8	12,200	20.7	128.3	11,600	24.2	136.3	11,100	155
159	6.2	92.0	11,700	15.2	115.6	11,100	20.0	126.2	10,600	159
160				14.3	112.4	11,000	19.1	123.7	10,500	160
164				5.4	89.4	10,400	12.6	109.2	10,000	164
165							11.9	105.6	9,900	165
168							3.1	82.8	9,500	168
170										170
174										174
175										175
179										179
180										180
185										185

MLC150-1 S-1

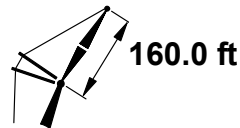
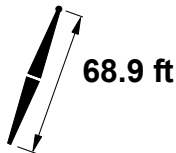
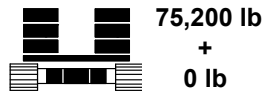
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
49										49
50										50
55										55
60										60
64										64
65										65
70										70
75										75
80										80
85										85
90										90
93	62.6	206.4	22,500							93
95	61.8	205.4	21,900							95
100	59.6	202.6	20,300							100
105	57.4	199.5	18,900							105
110	55.1	196.1	17,700	57.7	197.9	16,500				110
115	52.7	192.5	16,600	55.4	194.6	15,500				115
120	50.2	188.5	15,600	53.0	191.0	14,500				120
125	47.7	184.2	14,600	50.6	187.1	13,600				125
126	46.6	183.2	14,400	49.6	186.2	13,400	52.8	188.2	12,400	126
130	45.1	179.4	13,800	48.1	182.8	12,800	50.8	185.0	11,800	130
135	42.3	174.2	13,000	45.4	178.1	12,000	48.3	180.7	11,100	135
140	39.4	168.4	12,200	42.7	172.9	11,300	45.7	176.1	10,400	140
145	36.3	161.9	11,500	39.8	167.2	10,700	43.0	171.0	9,800	145
150	32.9	154.7	10,900	36.7	160.9	10,100	40.1	165.3	9,200	150
155	29.2	146.4	10,300	33.4	153.8	9,500	37.0	159.1	8,700	155
159	25.8	138.6	9,800	29.8	147.2	9,100	33.8	153.4	8,300	159
160	25.0	136.6	9,700	29.7	145.6	8,900	33.7	152.0	8,200	160
164	21.0	127.0	9,300	25.8	138.0	8,500	30.6	145.6	7,800	164
165	20.0	124.6	9,200	25.6	136.1	8,400	30.1	144.0	7,700	165
168	15.8	114.6	8,900	22.0	129.1	8,200	27.6	138.4	7,400	168
170	13.4	107.9	8,700	20.8	124.4	8,000	26.1	134.6	7,300	170
174	1.7	77.7	8,200	15.2	111.8	7,600	22.0	125.5	6,900	174
175				14.5	108.7	7,500	21.3	123.2	6,800	175
179				5.8	86.3	7,100	16.2	111.1	6,500	179
180							15.2	108.1	6,400	180
185							3.4	77.5	6,000	185

MLC150-1 S-1

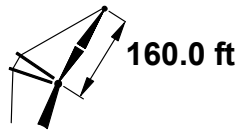
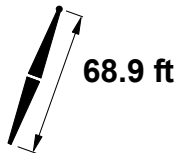
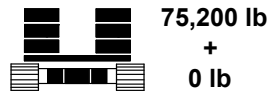
ASME B30.5



	87°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
52	74.7	230.3	40,200 b							52
55	73.6	229.4	39,800							55
60	71.7	227.9	38,400							60
65	69.8	226.1	36,800							65
67	68.2	225.3	36,200	70.9	226.5	37,700				67
70	67.9	224.2	35,300	69.8	225.5	36,300				70
75	66.0	222.1	33,700	67.8	223.5	33,000				75
79	64.2	220.2	32,100	65.4	221.8	30,800	67.7	222.7	29,700	79
80	64.0	219.7	31,700	65.9	221.4	30,300	67.3	222.3	29,200	80
85	62.0	217.2	29,200	63.9	219.1	27,900	65.3	220.1	26,900	85
90	59.9	214.4	27,000	61.9	216.5	25,700	63.3	217.7	24,800	90
95	57.9	211.4	25,100	59.9	213.7	23,900	61.3	215.1	23,000	95
97	56.2	210.1	24,400	58.2	212.5	23,200	60.2	213.9	22,400	97
100	55.7	208.1	23,300	57.8	210.7	22,200	59.3	212.2	21,400	100
105	53.5	204.6	21,800	55.6	207.4	20,700	57.2	209.1	19,900	105
110	51.3	200.7	20,400	53.4	203.8	19,400	55.0	205.8	18,600	110
115	48.9	196.5	19,100	51.2	200.0	18,200	52.8	202.1	17,500	115
120	46.5	192.0	18,000	48.8	195.8	17,100	50.5	198.2	16,400	120
125	44.0	187.0	16,900	46.4	191.2	16,000	48.1	193.9	15,400	125
130	41.3	181.6	15,900	43.9	186.2	15,100	45.7	189.2	14,500	130
132	39.8	179.2	15,600	42.2	184.1	14,800	44.2	187.1	14,100	132
135	38.6	175.6	15,000	41.2	180.8	14,200	43.1	184.1	13,600	135
140	35.6	169.0	14,200	38.4	174.8	13,400	40.4	178.5	12,900	140
145	32.4	161.6	13,400	35.5	168.1	12,700	37.6	172.3	12,200	145
150	28.9	153.1	12,700	32.2	160.7	12,000	34.6	165.4	11,500	150
155	24.9	143.3	12,000	28.7	152.2	11,400	31.3	157.7	10,900	155
160	20.2	131.2	11,400	24.7	142.3	10,700	27.6	148.9	10,300	160
165	14.2	115.1	10,800	20.0	130.1	10,200	23.5	138.4	9,700	165
169	6.0	92.5	10,300	14.4	117.0	9,700	19.0	127.9	9,300	169
170				13.9	113.7	9,600	18.5	125.3	9,200	170
174				5.2	89.8	9,100	12.4	110.4	8,700	174
175							11.5	106.6	8,600	175
178							3.0	83.1	8,300	178
180										180
184										184
185										185
189										189
190										190
195										195

MLC150-1 S-1

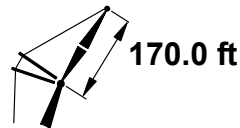
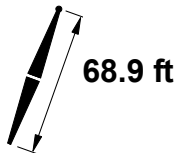
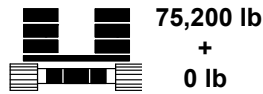
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
52										52
55										55
60										60
65										65
67										67
70										70
75										75
79										79
80										80
85										85
90										90
95										95
97	62.9	215.6	20,900							97
100	61.7	214.0	20,000							100
105	59.6	211.2	18,600							105
110	57.5	208.2	17,400							110
115	55.4	204.9	16,300	57.8	206.6	15,100				115
120	53.2	201.3	15,300	55.7	203.3	14,200				120
125	50.9	197.4	14,300	53.5	199.8	13,300				125
130	48.5	193.1	13,500	51.2	195.9	12,500				130
132	47.2	191.3	13,100	49.8	194.2	12,200	52.8	196.2	11,200	132
135	46.1	188.5	12,700	48.9	191.7	11,700	51.4	193.8	10,800	135
140	43.6	183.5	11,900	46.5	187.2	11,000	49.1	189.7	10,100	140
145	40.9	178.0	11,200	43.9	182.2	10,400	46.7	185.1	9,500	145
150	38.1	171.9	10,600	41.3	176.8	9,800	44.2	180.2	8,900	150
155	35.1	165.2	10,000	38.5	170.8	9,200	41.6	174.8	8,400	155
160	31.8	157.6	9,500	35.5	164.1	8,700	38.8	168.9	7,900	160
165	28.3	149.0	8,900	32.3	156.7	8,200	35.8	162.3	7,400	165
169	24.8	140.8	8,500	28.8	149.9	7,800	32.6	156.5	7,100	169
170	24.2	138.8	8,400	28.8	148.2	7,700	32.6	155.0	7,000	170
174	20.0	128.8	8,000	24.8	140.3	7,300	29.6	148.3	6,600	174
175	19.4	126.3	7,900	24.8	138.3	7,200	29.2	146.6	6,600	175
178	14.8	115.9	7,700	21.6	131.1	7,000	26.6	140.8	6,300	178
180	13.0	109.0	7,500	20.1	126.2	6,800	25.2	136.9	6,200	180
184	1.7	77.8	7,100	15.2	113.2	6,500	21.0	127.4	5,800	184
185				14.0	109.9	6,400	20.6	125.1	5,800	185
189				5.6	86.8	6,000	15.2	112.5	5,500	189
190							14.7	109.4	5,400	190
195							3.3	77.8	5,000	195

MLC150-1 S-1

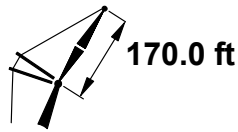
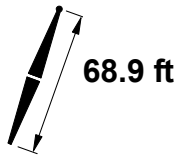
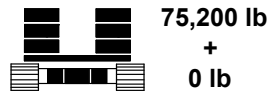
ASME B30.5



ft	87°			83°			80°			ft
	ft	lb	ft	ft	lb	ft	lb	ft		
54	75.0	240.1	35,400						54	
55	74.6	239.8	35,200						55	
60	72.9	238.4	34,600						60	
65	71.1	236.7	33,900						65	
70	69.3	234.9	32,500						70	
71	68.6	234.5	32,200	70.6	235.7	32,800			71	
75	67.5	233.0	31,000	69.2	234.3	32,400			75	
80	65.6	230.8	29,500	67.4	232.3	30,000			80	
82	64.2	229.8	29,000	66.2	231.4	29,100	68.0	232.3	28,000	82
85	63.8	228.4	28,200	65.6	230.1	27,600	66.9	231.0	26,600	85
90	61.9	225.9	26,800	63.7	227.7	25,500	65.0	228.8	24,600	90
95	60.0	223.1	24,800	61.8	225.2	23,600	63.2	226.4	22,800	95
100	58.0	220.1	23,100	59.9	222.4	22,000	61.3	223.7	21,100	100
102	56.2	218.8	22,500	58.2	221.2	21,400	60.2	222.6	20,600	102
105	56.0	216.8	21,600	57.9	219.4	20,500	59.3	220.9	19,700	105
110	53.9	213.3	20,200	55.9	216.1	19,200	57.3	217.8	18,400	110
115	51.8	209.5	18,900	53.8	212.6	17,900	55.3	214.5	17,200	115
120	49.6	205.4	17,800	51.7	208.8	16,800	53.2	210.9	16,100	120
125	47.4	201.0	16,700	49.5	204.7	15,800	51.1	207.0	15,200	125
130	45.0	196.2	15,700	47.3	200.2	14,900	48.9	202.8	14,300	130
135	42.6	191.0	14,800	44.9	195.4	14,000	46.6	198.2	13,400	135
138	40.8	187.6	14,300	42.8	192.3	13,600	44.8	195.3	13,000	138
140	40.1	185.3	14,000	42.5	190.2	13,200	44.3	193.3	12,700	140
145	37.4	179.1	13,200	39.9	184.5	12,500	41.8	188.0	11,900	145
150	34.5	172.2	12,500	37.2	178.2	11,800	39.2	182.1	11,300	150
155	31.4	164.4	11,900	34.4	171.3	11,200	36.4	175.7	10,700	155
160	28.0	155.7	11,200	31.2	163.5	10,600	33.5	168.5	10,100	160
165	24.1	145.4	10,600	27.8	154.7	10,000	30.3	160.5	9,500	165
170	19.6	133.0	10,100	24.0	144.4	9,500	26.8	151.3	9,000	170
175	13.7	116.3	9,500	19.4	131.8	8,900	22.7	140.4	8,500	175
179	5.8	93.0	9,100	14.2	118.3	8,500	18.0	129.6	8,100	179
180				13.4	114.9	8,400	17.9	126.9	8,000	180
184				5.0	90.3	8,000	12.2	111.5	7,700	184
185							11.2	107.6	7,600	185
188							2.9	83.3	7,300	188
190										190
194										194
195										195
199										199
200										200
205										205

MLC150-1 S-1

ASME B30.5



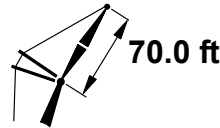
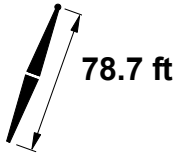
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft		
54									54	
55									55	
60									60	
65									65	
70									70	
71									71	
75									75	
80									80	
82									82	
85									85	
90									90	
95									95	
100									100	
102	62.7	224.3	19,200						102	
105	61.6	222.7	18,400						105	
110	59.6	219.9	17,200						110	
115	57.7	216.8	16,000						115	
120	55.7	213.5	15,000	57.9	215.3	13,900			120	
125	53.6	210.0	14,100	55.9	212.0	13,000			125	
130	51.5	206.2	13,200	53.9	208.5	12,200			130	
135	49.3	202.0	12,400	51.8	204.7	11,500			135	
138	47.8	199.3	12,000	49.8	202.3	11,000	52.8	204.2	10,100	138
140	47.0	197.5	11,700	49.6	200.6	10,800	52.0	202.6	9,900	140
145	44.7	192.7	11,000	47.3	196.2	10,100	49.8	198.5	9,300	145
150	42.2	187.4	10,400	45.0	191.4	9,500	47.6	194.1	8,700	150
155	39.6	181.6	9,800	42.6	186.2	9,000	45.2	189.4	8,200	155
160	36.9	175.3	9,200	40.0	180.5	8,400	42.8	184.2	7,700	160
165	34.0	168.3	8,700	37.3	174.2	7,900	40.3	178.6	7,200	165
170	30.9	160.4	8,200	34.4	167.3	7,500	37.6	172.4	6,800	170
175	27.4	151.4	7,800	31.3	159.6	7,000	34.7	165.5	6,300	175
179	23.8	143.0	7,400	27.8	152.5	6,700	31.6	159.4	6,000	179
180	23.5	140.9	7,300	27.9	150.8	6,600	31.6	157.9	5,900	180
184	19.0	130.6	7,000	24.6	142.5	6,300	28.6	150.9	5,600	184
185	18.8	128.0	6,900	24.1	140.5	6,200	28.3	149.2	5,600	185
188	14.4	117.3	6,600	21.0	133.0	6,000	25.6	143.1	5,400	188
190	12.6	110.2	6,500	19.5	128.0	5,800	24.5	139.1	5,200	190
194	1.6	78.0	6,100	14.2	114.5	5,500	20.8	129.3	4,900	194
195				13.6	111.2	5,500	20.0	126.9	4,900	195
199				5.4	87.3	5,200	15.2	113.9	4,600	199
200							14.3	110.7	4,500	200
205							3.2	78.1	4,100	205

MLC150-1 S-1

ASME B30.5



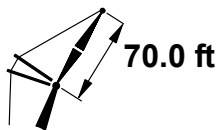
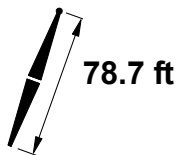
75,200 lb
+
0 lb



	87°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	lb	ft	
29	74.6	153.2	104,800 d						29	
30	73.7	153.0	104,800 d						30	
32	72.0	152.3	104,800 d						32	
34	70.3	151.7	103,400 d						34	
36	68.5	150.9	95,400 c						36	
38	66.8	150.1	88,500 c						38	
39	65.0	149.6	85,500 c	70.7	151.2	81,900 d			39	
40	65.0	149.2	82,500 c	69.8	150.8	79,100 d			40	
42	63.1	148.2	77,300 c	68.1	150.1	74,000 c			42	
44	61.3	147.2	72,600 c	66.3	149.2	69,500 c			44	
46	59.4	146.0	68,400 b	64.5	148.3	65,500 c			46	
47	58.0	145.4	66,500 b	63.0	147.8	63,700 c	67.3	148.9	61,600 c	47
48	57.5	144.8	64,700 b	62.7	147.3	61,900 c	66.4	148.5	59,900 c	48
50	55.5	143.5	61,300 b	60.8	146.2	58,700 c	64.6	147.6	56,800 c	50
55	50.4	139.7	54,100 b	56.0	143.2	51,800 b	59.9	145.0	50,100 c	55
59	45.2	136.0	49,500 b	51.2	140.2	47,400 b	55.8	142.4	45,800 c	59
60	44.9	135.1	48,400 b	50.9	139.4	46,300 b	55.1	141.8	44,800 b	60
65	38.7	129.5	43,600	45.4	135.0	41,800 b	49.9	138.0	40,400 b	65
70	31.6	122.4	39,600	39.3	129.5	37,900	44.3	133.3	36,700	70
71	29.2	120.5	38,900	37.6	128.1	37,300	42.8	132.2	36,000	71
75	22.6	112.7	36,200	32.3	122.6	34,700	38.1	127.6	33,500	75
80	6.0	93.0	33,000	23.6	113.2	31,800	30.9	120.3	30,800	80
82				17.0	106.3	30,800	26.4	116.3	29,800	82
85				9.0	96.0	29,200	21.6	110.2	28,400	85
89							9.4	95.8	26,600	89
90										90
95										95
96										96
100										100
103										103
105										105
109										109

MLC150-1 S-1

ASME B30.5



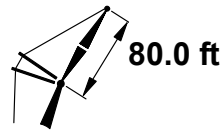
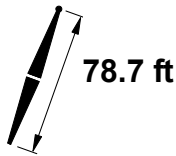
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
29										29
30										30
32										32
34										34
36										36
38										38
39										39
40										40
42										42
44										44
46										46
47										47
48										48
50										50
55										55
59	62.4	144.8	43,100 c							59
60	61.5	144.2	42,200 c							60
65	56.7	141.2	38,000 b							65
70	51.7	137.6	34,600 b							70
71	50.0	136.8	34,000 b	57.3	139.3	31,900 b				71
75	46.3	133.3	31,600 b	53.3	136.5	29,700 b				75
80	40.3	128.0	29,000	48.0	132.4	27,300 b				80
82	37.2	125.3	28,100	45.0	130.4	26,400 b	52.5	133.2	24,700 b	82
85	33.5	121.3	26,800	42.2	127.5	25,100	49.4	130.8	23,500 b	85
89	26.6	114.2	25,200	36.4	122.5	23,600	44.2	127.0	22,100 b	89
90	25.1	112.4	24,800	35.7	121.3	23,300	43.7	126.0	21,800	90
95	12.3	97.7	22,900	27.9	113.2	21,600	37.4	120.2	20,200	95
96	7.6	92.0	22,500	25.0	110.8	21,300	35.6	118.7	20,000	96
100				17.2	101.1	20,100	30.1	112.7	18,800	100
103				3.5	84.7	19,100	24.0	106.3	18,000	103
105							20.5	102.1	17,500	105
109							6.3	85.3	16,500	109

MLC150-1 S-1

ASME B30.5



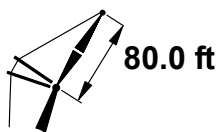
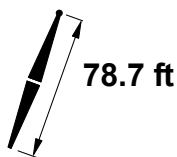
75,200 lb
+
0 lb



	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
32	74.3	162.8	95,900 d							32
34	72.8	162.2	95,800 d							34
36	71.3	161.5	95,200 c							36
38	69.8	160.8	88,300 c							38
40	68.3	160.1	82,300 c							40
42	66.7	159.2	77,000 c	70.9	160.7	73,700 c				42
44	65.2	158.3	72,300 c	69.4	160.0	69,200 c				44
46	63.6	157.4	68,200 b	67.9	159.2	65,200 c				46
48	62.0	156.4	64,400 b	66.3	158.4	61,600 c				48
50	60.3	155.3	61,100 b	64.7	157.5	58,400 c	67.9	158.5	56,400 c	50
55	56.1	152.2	53,900 b	60.7	154.9	51,600 b	64.0	156.3	49,800 b	55
60	51.7	148.5	48,100	56.5	151.8	46,000 b	59.9	153.6	44,500 b	60
63	48.0	145.9	45,300	53.6	149.7	43,300 b	56.6	151.7	41,800 b	63
65	46.9	144.2	43,400	52.1	148.2	41,500	55.7	150.5	40,100 b	65
70	41.8	139.1	39,400	47.4	144.0	37,700	51.3	146.8	36,400	70
75	36.1	132.9	36,000	42.3	139.0	34,400	46.5	142.4	33,200	75
76	34.6	131.4	35,500	40.8	137.8	33,900	45.0	141.4	32,700	76
80	29.5	125.2	33,100	36.7	132.9	31,700	41.3	137.2	30,500	80
85	21.1	114.6	30,500	30.2	125.4	29,200	35.6	130.9	28,200	85
88	11.4	101.9	29,100	25.2	119.2	27,900	30.8	126.2	26,900	88
90	5.6	93.5	28,100	22.1	115.2	27,000	28.9	123.0	26,100	90
95				8.4	96.8	25,000	20.2	112.0	24,200	95
99							8.7	96.6	22,800	99
100										100
105										105
106										106
110										110
113										113
115										115
119										119

MLC150-1 S-1

ASME B30.5



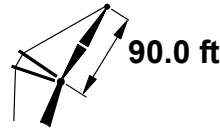
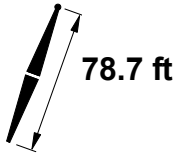
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft		
32									32	
34									34	
36									36	
38									38	
40									40	
42									42	
44									44	
46									46	
48									48	
50									50	
55									55	
60									60	
63	63.0	154.0	39,300 b						63	
65	61.3	152.9	37,700 b						65	
70	57.2	149.9	34,200 b						70	
75	52.8	146.4	31,300 b						75	
76	51.2	145.6	30,700 b	57.6	148.0	28,800 b			76	
80	48.1	142.3	28,700	54.1	145.3	26,900 b			80	
85	43.1	137.4	26,500	49.6	141.4	24,800			85	
88	39.4	133.9	25,300	46.0	138.6	23,700	52.6	141.2	22,100 b	88
90	37.6	131.5	24,500	44.7	136.7	23,000	50.8	139.6	21,400	90
95	31.3	124.2	22,800	39.3	131.2	21,300	46.0	135.2	19,900	95
99	24.6	116.5	21,500	34.2	125.7	20,100	41.0	130.9	18,800	99
100	23.5	114.6	21,200	33.3	124.4	19,900	40.8	129.9	18,500	100
105	11.5	98.7	19,700	26.1	115.6	18,500	34.9	123.4	17,300	105
106	7.1	92.6	19,400	24.0	113.0	18,300	32.8	121.8	17,000	106
110				16.1	102.6	17,300	28.1	115.3	16,100	110
113				3.2	85.0	16,500	22.6	108.4	15,500	113
115							19.1	103.9	15,100	115
119							5.9	85.8	14,200	119

MLC150-1 S-1

ASME B30.5



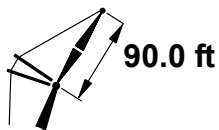
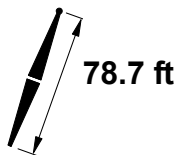
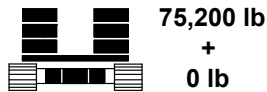
75,200 lb
+
0 lb



	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
34	74.8	172.6	86,300 d							34
36	73.5	172.0	86,100 c							36
38	72.1	171.4	84,900 c							38
40	70.8	170.7	82,100 c							40
42	69.4	170.0	76,800 c							42
44	68.1	169.2	72,200 c							44
46	66.7	168.4	68,000 b	70.4	169.9	65,000 c				46
48	65.3	167.5	64,200 b	69.1	169.2	61,400 c				48
50	63.9	166.6	60,900 b	67.7	168.4	58,200 c				50
54	60.6	164.4	55,200 b	64.6	166.6	52,700 c	67.8	167.7	50,800 c	54
55	60.3	163.9	53,700 b	64.2	166.2	51,300 b	67.1	167.3	49,600 c	55
60	56.5	160.8	48,000	60.6	163.6	45,800 b	63.6	165.0	44,200 b	60
65	52.6	157.3	43,200	56.9	160.5	41,300 b	60.0	162.3	39,900 b	65
68	49.6	154.8	40,900	54.2	158.4	39,000 b	57.2	160.4	37,600 b	68
70	48.5	153.2	39,300	53.0	157.0	37,500	56.2	159.2	36,200	70
75	44.1	148.4	35,900	48.9	153.0	34,300	52.3	155.6	33,100	75
80	39.3	142.8	33,000	44.5	148.3	31,500	48.1	151.4	30,400	80
81	37.8	141.4	32,500	43.0	147.1	31,000	47.0	150.4	29,900	81
85	34.0	136.1	30,500	39.8	142.7	29,100	43.7	146.6	28,000	85
90	27.8	127.7	28,300	34.5	136.1	27,000	38.9	140.9	26,000	90
94	20.6	118.7	26,600	29.2	129.6	25,400	34.0	135.4	24,500	94
95	19.9	116.4	26,200	28.4	128.0	25,100	33.5	134.0	24,200	95
100	5.3	94.0	24,300	20.8	117.1	23,300	27.2	125.5	22,500	100
105				7.9	97.5	21,700	19.1	113.8	21,000	105
109							8.2	97.3	19,800	109
110										110
115										115
116										116
120										120
123										123
125										125
129										129

MLC150-1 S-1

ASME B30.5



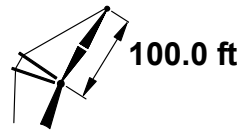
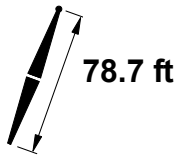
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft		
34									34	
36									36	
38									38	
40									40	
42									42	
44									44	
46									46	
48									48	
50									50	
54									54	
55									55	
60									60	
65									65	
68	62.6	162.6	35,300 b						68	
70	61.2	161.6	34,000 b						70	
75	57.5	158.6	31,000 b						75	
80	53.6	155.2	28,500						80	
81	52.2	154.4	28,100	57.9	156.7	26,200 b			81	
85	49.6	151.2	26,300	54.8	154.0	24,600			85	
90	45.2	146.6	24,400	50.8	150.2	22,800			90	
94	41.0	142.3	23,000	46.8	146.7	21,500	52.7	149.2	20,000	94
95	40.6	141.2	22,600	46.6	145.8	21,100	51.9	148.4	19,700	95
100	35.4	134.8	21,100	42.0	140.7	19,700	47.7	144.2	18,300	100
105	29.4	126.9	19,700	37.0	134.6	18,400	43.2	139.3	17,100	105
109	23.4	118.6	18,700	32.2	128.7	17,400	39.0	134.6	16,200	109
110	22.1	116.6	18,400	31.3	127.3	17,200	38.4	133.5	16,000	110
115	10.9	99.7	17,200	24.5	117.8	16,100	32.9	126.5	14,900	115
116	6.7	93.2	16,900	22.2	115.0	15,900	30.8	124.7	14,800	116
120				15.2	104.0	15,100	26.5	117.7	14,000	120
123				3.0	85.2	14,400	21.2	110.4	13,500	123
125							18.0	105.5	13,100	125
129							5.5	86.3	12,400	129

MLC150-1 S-1

ASME B30.5



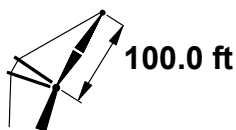
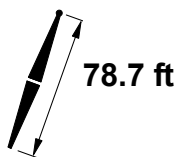
75,200 lb
+
0 lb



	87°			83°			80°			
37	74.6	182.1	78,700 c							37
38	74.0	181.9	78,600 c							38
40	72.8	181.3	78,100 c							40
42	71.6	180.6	76,600 c							42
44	70.4	179.9	71,900 c							44
46	69.1	179.2	67,700 b							46
48	67.9	178.4	64,000 b							48
49	66.5	178.0	62,300 b	70.6	179.5	59,500 c				49
50	66.7	177.6	60,600 b	70.0	179.1	57,900 c				50
55	63.5	175.3	53,500 b	67.0	177.1	51,000 b				55
58	61.2	173.6	50,000 b	64.2	175.8	47,700 b	67.6	176.9	45,900 b	58
60	60.3	172.6	47,700	63.8	174.9	45,500 b	66.4	176.0	43,900 b	60
65	56.9	169.5	43,000	60.6	172.2	41,000	63.2	173.7	39,500 b	65
70	53.4	166.0	39,000	57.2	169.2	37,200	60.0	171.0	35,900	70
73	50.6	163.7	37,000	54.6	167.1	35,300	57.2	169.1	34,000	73
75	49.7	162.1	35,700	53.7	165.8	34,000	56.6	167.9	32,800	75
80	45.9	157.5	32,800	50.1	161.8	31,200	53.1	164.3	30,100	80
85	41.7	152.3	30,300	46.3	157.4	28,800	49.4	160.3	27,700	85
87	39.4	149.9	29,400	44.4	155.3	28,000	47.4	158.5	26,900	87
90	37.2	146.3	28,100	42.2	152.2	26,700	45.5	155.7	25,700	90
95	32.2	139.0	26,100	37.7	146.2	24,800	41.4	150.5	23,900	95
100	26.3	130.1	24,300	32.7	139.2	23,100	36.8	144.3	22,300	100
105	18.9	118.1	22,700	27.0	130.4	21,600	31.7	137.0	20,800	105
110	5.0	94.4	21,200	19.7	118.8	20,200	25.8	127.8	19,500	110
115				7.5	98.2	18,900	18.1	115.4	18,200	115
119							7.8	98.0	17,300	119
120										120
125										125
126										126
130										130
133										133
135										135
139										139

MLC150-1 S-1

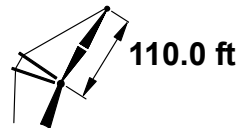
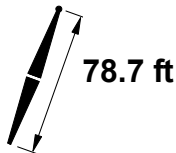
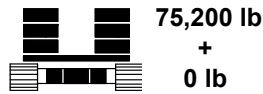
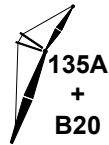
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft		
37									37	
38									38	
40									40	
42									42	
44									44	
46									46	
48									48	
49									49	
50									50	
55									55	
58									58	
60									60	
65									65	
70									70	
73	62.4	171.3	31,800 b						73	
75	61.1	170.2	30,700						75	
80	57.7	167.3	28,200						80	
85	54.3	163.9	26,000						85	
87	52.4	162.4	25,200	57.4	164.7	23,500			87	
90	50.7	160.1	24,000	55.3	162.7	22,400			90	
95	46.9	155.7	22,300	51.8	159.0	20,800			95	
100	42.8	150.6	20,800	48.0	154.8	19,300	52.7	157.2	17,900	100
105	38.4	144.8	19,400	44.1	150.0	18,100	49.0	153.1	16,700	105
110	33.5	137.9	18,200	39.8	144.4	16,900	45.1	148.5	15,600	110
115	27.9	129.5	17,000	35.0	137.9	15,800	40.9	143.1	14,600	115
119	21.4	120.7	16,200	30.2	131.5	15,000	36.8	138.1	13,900	119
120	21.0	118.5	16,000	29.7	130.0	14,800	36.3	136.8	13,700	120
125	10.3	100.6	14,900	23.3	119.9	13,900	31.2	129.4	12,900	125
126	6.4	93.8	14,700	21.2	117.0	13,700	29.8	127.5	12,700	126
130				14.4	105.3	13,000	25.1	120.0	12,100	130
133				2.9	85.5	12,500	20.2	112.2	11,600	133
135							17.1	107.0	11,300	135
139							5.2	86.8	10,700	139

MLC150-1 S-1

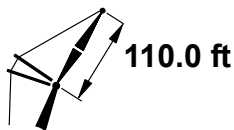
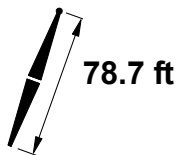
ASME B30.5



	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
39	74.9	192.0	72,200 c							39
40	74.4	191.7	72,100 c							40
42	73.3	191.1	71,000 c							42
44	72.2	190.5	69,900 c							44
46	71.1	189.8	67,600 b							46
48	70.0	189.1	63,900 b							48
50	68.9	188.4	60,500 b							50
52	67.2	187.5	57,600 b	70.8	189.0	54,800 b				52
55	66.1	186.3	53,400 b	69.2	187.9	50,900 b				55
60	63.2	183.9	47,600	66.3	185.9	45,400 b				60
62	61.8	182.8	45,700	64.8	184.9	43,600 b	67.5	186.0	41,900 b	62
65	60.2	181.2	42,900	63.5	183.5	40,900	65.8	184.7	39,400 b	65
70	57.2	178.2	39,000	60.5	180.9	37,100	62.9	182.3	35,800	70
75	54.0	174.8	35,600	57.5	177.9	33,900	60.0	179.6	32,700	75
77	52.4	173.2	34,500	55.8	176.5	32,800	57.8	178.4	31,600	77
80	50.7	170.9	32,700	54.3	174.5	31,200	56.9	176.5	30,000	80
85	47.3	166.6	30,200	51.1	170.7	28,800	53.7	173.1	27,700	85
90	43.6	161.7	28,000	47.6	166.4	26,700	50.4	169.2	25,600	90
92	41.4	159.4	27,200	45.4	164.4	25,900	48.4	167.4	24,900	92
95	39.7	156.0	26,100	44.0	161.5	24,800	47.0	164.8	23,800	95
100	35.4	149.5	24,300	40.1	156.0	23,100	43.3	159.8	22,200	100
105	30.7	141.9	22,800	35.9	149.6	21,600	39.3	154.1	20,800	105
106	29.0	140.0	22,500	34.2	148.1	21,400	38.2	152.8	20,500	106
110	25.1	132.4	21,300	31.2	142.0	20,300	35.0	147.5	19,500	110
115	18.0	119.7	20,000	25.7	132.8	19,000	30.2	139.7	18,300	115
120	4.8	94.9	18,700	18.8	120.5	17,900	24.5	130.1	17,200	120
125				7.2	98.8	16,800	17.2	117.0	16,100	125
129							7.5	98.7	15,300	129
130										130
135										135
136										136
140										140
143										143
145										145
149										149

MLC150-1 S-1

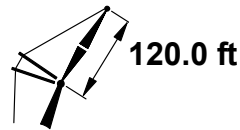
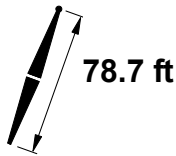
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft		
39									39	
40									40	
42									42	
44									44	
46									46	
48									48	
50									50	
52									52	
55									55	
60									60	
62									62	
65									65	
70									70	
75									75	
77	62.7	180.5	29,500						77	
80	61.0	178.9	28,100						80	
85	57.9	175.9	25,900						85	
90	54.8	172.6	24,000						90	
92	52.8	171.1	23,300	57.6	173.4	21,700			92	
95	51.6	168.9	22,300	55.8	171.4	20,700			95	
100	48.2	164.7	20,700	52.6	167.8	19,300			100	
105	44.6	159.9	19,400	49.2	163.7	18,000			105	
106	43.2	158.8	19,100	48.2	162.8	17,800	52.8	165.2	16,400	106
110	40.7	154.5	18,100	45.7	159.1	16,800	50.1	162.0	15,600	110
115	36.5	148.2	17,000	41.9	153.9	15,800	46.6	157.6	14,600	115
120	31.9	140.8	16,000	37.8	147.9	14,800	42.9	152.5	13,700	120
125	26.6	131.9	15,000	33.4	140.9	13,900	38.9	146.7	12,800	125
129	20.4	122.6	14,300	29.0	134.2	13,300	34.8	141.4	12,200	129
130	20.0	120.3	14,200	28.3	132.6	13,100	34.6	140.0	12,100	130
135	9.8	101.5	13,300	22.2	121.9	12,300	29.7	132.1	11,400	135
136	6.1	94.3	13,100	20.2	118.9	12,200	27.8	130.1	11,200	136
140				13.7	106.5	11,600	23.9	122.2	10,700	140
143				2.8	85.7	11,100	18.8	114.0	10,300	143
145							16.3	108.5	10,000	145
149							5.0	87.2	9,500	149

MLC150-1 S-1

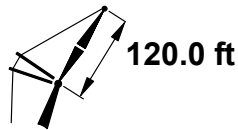
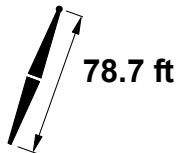
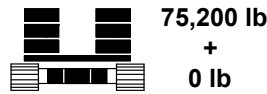
ASME B30.5



	87°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
42	74.7	201.5	65,800 c							42
44	73.7	201.0	64,800 c							44
46	72.7	200.3	63,800 b							46
48	71.7	199.7	62,800 b							48
50	70.7	199.0	60,300 b							50
55	68.2	197.2	53,100 b	71.0	198.6	50,600 b				55
60	65.6	195.0	47,400	68.4	196.7	45,100 b				60
65	62.9	192.6	42,700	65.8	194.6	40,600	67.9	195.6	39,100 b	65
70	60.2	189.9	38,700	63.2	192.2	36,800	65.3	193.4	35,500	70
75	57.4	186.9	35,400	60.5	189.5	33,600	62.7	191.0	32,400	75
80	54.5	183.5	32,500	57.7	186.5	30,900	60.0	188.3	29,700	80
82	52.8	182.0	31,500	55.8	185.2	29,900	58.2	187.0	28,800	82
85	51.6	179.7	30,000	54.8	183.2	28,500	57.2	185.2	27,400	85
90	48.4	175.5	27,800	51.8	179.5	26,400	54.3	181.8	25,300	90
95	45.2	170.8	25,800	48.7	175.3	24,500	51.3	178.0	23,500	95
97	43.4	168.7	25,100	46.8	173.5	23,900	49.8	176.3	22,900	97
100	41.7	165.6	24,100	45.5	170.7	22,900	48.1	173.8	21,900	100
105	38.0	159.6	22,500	42.0	165.5	21,400	44.9	169.0	20,500	105
110	33.9	152.7	21,100	38.3	159.5	20,000	41.4	163.7	19,200	110
112	31.4	149.4	20,600	36.4	156.8	19,500	39.4	161.3	18,700	112
115	29.3	144.5	19,800	34.3	152.7	18,800	37.6	157.6	18,000	115
120	24.0	134.6	18,700	29.8	144.7	17,700	33.5	150.6	16,900	120
125	17.2	121.3	17,600	24.6	135.0	16,600	28.9	142.4	15,900	125
130	4.6	95.3	16,500	18.0	122.2	15,700	23.5	132.2	15,000	130
135				6.9	99.4	14,700	16.5	118.4	14,100	135
139							7.1	99.3	13,400	139
140										140
145										145
146										146
150										150
153										153
155										155
159										159

MLC150-1 S-1

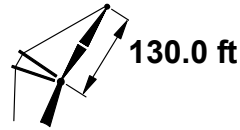
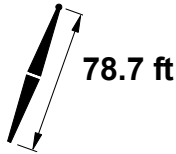
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft		
42									42	
44									44	
46									46	
48									48	
50									50	
55									55	
60									60	
65									65	
70									70	
75									75	
80									80	
82	62.5	189.2	26,800						82	
85	60.9	187.5	25,600						85	
90	58.1	184.6	23,600						90	
95	55.3	181.3	21,900						95	
97	53.8	179.8	21,300	57.8	182.0	19,800			97	
100	52.3	177.7	20,400	56.1	180.1	18,900			100	
105	49.2	173.6	19,100	53.2	176.5	17,700			105	
110	46.0	169.0	17,800	50.2	172.6	16,500			110	
112	43.8	166.9	17,400	48.4	170.8	16,100	52.8	173.2	14,800	112
115	42.6	163.9	16,700	47.0	168.2	15,500	51.0	170.8	14,200	115
120	38.9	158.1	15,700	43.6	163.2	14,500	47.8	166.6	13,300	120
125	34.9	151.4	14,800	40.0	157.6	13,600	44.5	161.8	12,500	125
130	30.5	143.6	13,900	36.2	151.3	12,800	41.0	156.3	11,700	130
135	25.4	134.2	13,100	31.9	143.9	12,100	37.2	150.2	11,000	135
139	20.2	124.4	12,500	27.8	136.8	11,500	33.8	144.5	10,500	139
140	19.1	122.0	12,300	27.1	135.0	11,400	33.1	143.1	10,400	140
145	9.4	102.3	11,600	21.2	123.9	10,700	28.4	134.7	9,800	145
146	5.8	94.8	11,400	19.4	120.6	10,600	26.8	132.6	9,700	146
150				13.1	107.7	10,000	22.9	124.2	9,200	150
153				2.6	86.0	9,600	17.8	115.6	8,800	153
155							15.6	109.9	8,600	155
159							4.8	87.6	8,100	159

MLC150-1 S-1

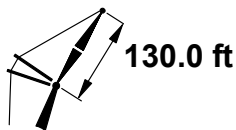
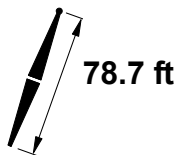
ASME B30.5



	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
45	74.6	211.1	49,700 b							45
46	74.1	210.8	49,600 b							46
48	73.2	210.2	49,100 b							48
50	72.3	209.6	48,700 b							50
55	69.9	207.9	47,800 b							55
59	67.4	206.3	47,100 b	70.6	207.8	45,900 b				59
60	67.6	205.9	46,900	70.2	207.4	44,900 b				60
65	65.2	203.7	42,400	67.8	205.5	40,400				65
69	62.6	201.8	39,300	65.4	203.7	37,400	67.8	204.8	35,900	69
70	62.7	201.3	38,500	65.4	203.3	36,600	67.4	204.4	35,200	70
75	60.2	198.6	35,100	62.9	200.9	33,400	64.9	202.2	32,100	75
80	57.6	195.5	32,300	60.4	198.2	30,700	62.5	199.7	29,500	80
85	55.0	192.2	29,800	57.9	195.2	28,300	60.0	196.9	27,100	85
86	53.6	191.5	29,300	56.6	194.5	27,800	58.6	196.3	26,700	86
90	52.2	188.5	27,600	55.2	191.9	26,200	57.4	193.9	25,100	90
95	49.4	184.4	25,600	52.5	188.3	24,300	54.7	190.5	23,300	95
100	46.4	179.9	23,900	49.7	184.2	22,700	52.0	186.8	21,700	100
103	44.2	176.9	23,000	47.2	181.5	21,800	49.8	184.3	20,900	103
105	43.3	174.9	22,400	46.7	179.7	21,200	49.1	182.7	20,300	105
110	40.0	169.3	20,900	43.6	174.8	19,800	46.1	178.1	19,000	110
115	36.4	162.9	19,700	40.3	169.2	18,600	43.0	173.1	17,800	115
118	33.6	158.5	19,000	37.6	165.4	17,900	40.6	169.6	17,200	118
120	32.5	155.6	18,500	36.8	162.9	17,500	39.7	167.4	16,700	120
125	28.2	147.1	17,400	32.9	155.7	16,500	36.1	160.9	15,800	125
130	23.1	136.7	16,400	28.6	147.3	15,500	32.2	153.6	14,900	130
135	16.5	122.8	15,500	23.6	137.1	14,700	27.7	144.9	14,000	135
140	4.4	95.7	14,600	17.3	123.7	13,800	22.5	134.2	13,200	140
145				6.6	100.0	13,000	15.8	119.9	12,500	145
149							6.9	99.9	11,900	149
150										150
155										155
156										156
160										160
163										163
165										165
169										169

MLC150-1 S-1

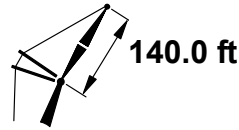
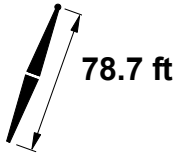
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
45										45
46										46
48										48
50										50
55										55
59										59
60										60
65										65
69										69
70										70
75										75
80										80
85										85
86	62.8	198.4	24,900							86
90	60.8	196.2	23,400							90
95	58.3	193.3	21,700							95
100	55.6	190.0	20,200							100
103	53.2	187.9	19,400	57.5	190.1	17,900				103
105	52.9	186.4	18,800	56.4	188.8	17,400				105
110	50.1	182.4	17,600	53.8	185.3	16,300				110
115	47.2	178.0	16,500	51.0	181.4	15,200				115
118	45.2	175.1	15,900	48.8	178.9	14,700	52.8	181.2	13,400	118
120	44.1	173.1	15,500	48.1	177.2	14,300	51.7	179.6	13,100	120
125	40.8	167.7	14,600	45.0	172.4	13,400	48.8	175.5	12,300	125
130	37.3	161.5	13,700	41.8	167.1	12,600	45.8	170.9	11,500	130
135	33.5	154.5	12,900	38.4	161.2	11,900	42.7	165.7	10,800	135
140	29.3	146.3	12,200	34.7	154.5	11,200	39.3	160.0	10,200	140
145	24.4	136.4	11,500	30.6	146.7	10,500	35.7	153.5	9,600	145
149	19.2	126.2	11,000	26.0	139.2	10,000	31.8	147.5	9,100	149
150	18.4	123.6	10,800	26.0	137.4	9,900	31.7	146.0	9,000	150
155	9.0	103.1	10,200	20.4	125.7	9,300	27.2	137.1	8,500	155
156	5.6	95.3	10,000	18.4	122.3	9,200	25.8	134.9	8,400	156
160				12.6	108.8	8,800	21.9	126.2	8,000	160
163				2.5	86.2	8,400	16.8	117.2	7,700	163
165							15.0	111.2	7,500	165
169							4.6	88.0	7,000	169

MLC150-1 S-1

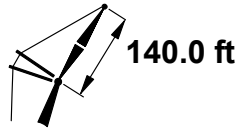
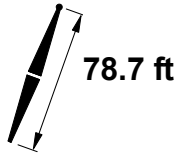
ASME B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
47	74.8	220.9	46,300 b							47
48	74.4	220.6	46,000 b							48
50	73.6	220.0	45,700 b							50
55	71.4	218.5	44,900 b							55
60	69.2	216.7	44,000							60
62	68.2	215.9	43,300	70.8	217.3	42,700				62
65	67.0	214.7	42,200	69.5	216.2	40,100				65
70	64.8	212.4	38,200	67.3	214.2	36,300				70
73	62.8	210.9	36,200	65.8	212.9	34,400	67.7	213.9	33,000	73
75	62.5	210.0	34,900	65.0	212.0	33,100	66.8	213.1	31,800	75
80	60.2	207.2	32,000	62.7	209.6	30,400	64.6	210.9	29,200	80
85	57.8	204.2	29,500	60.4	206.9	28,000	62.3	208.4	26,800	85
90	55.3	200.9	27,300	58.0	203.9	25,900	60.0	205.6	24,800	90
91	54.4	200.2	26,900	57.4	203.2	25,500	58.6	205.0	24,500	91
95	52.8	197.3	25,400	55.6	200.6	24,000	57.6	202.6	23,000	95
100	50.2	193.3	23,700	53.1	197.0	22,400	55.1	199.2	21,400	100
105	47.5	188.9	22,100	50.5	193.1	20,900	52.6	195.6	20,000	105
108	45.2	186.0	21,300	48.2	190.5	20,100	50.2	193.2	19,200	108
110	44.6	184.1	20,700	47.7	188.7	19,600	50.0	191.6	18,700	110
115	41.6	178.8	19,400	44.9	184.0	18,300	47.2	187.2	17,500	115
120	38.5	172.8	18,300	41.9	178.7	17,200	44.4	182.3	16,500	120
124	35.6	167.5	17,400	38.6	174.0	16,400	41.6	178.0	15,700	124
125	35.0	166.1	17,200	38.8	172.8	16,200	41.4	176.9	15,500	125
130	31.3	158.5	16,200	35.4	166.2	15,300	38.2	170.9	14,600	130
135	27.1	149.5	15,300	31.7	158.6	14,400	34.7	164.1	13,700	135
140	22.2	138.7	14,500	27.5	149.8	13,600	31.0	156.4	13,000	140
145	15.9	124.2	13,700	22.7	139.2	12,900	26.7	147.3	12,200	145
150	4.2	96.0	12,900	16.6	125.2	12,100	21.7	136.2	11,600	150
155				6.3	100.6	11,400	15.3	121.2	10,900	155
159							6.6	100.5	10,400	159
160										160
165										165
166										166
170										170
173										173
175										175
179										179

MLC150-1 S-1

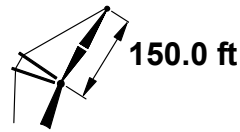
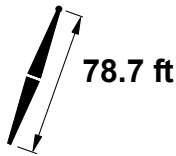
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
47										47
48										48
50										50
55										55
60										60
62										62
65										65
70										70
73										73
75										75
80										80
85										85
90										90
91	62.6	207.0	22,700							91
95	60.8	204.9	21,400							95
100	58.4	201.9	19,900							100
105	56.0	198.7	18,500							105
108	53.8	196.6	17,800	57.7	198.7	16,400				108
110	53.4	195.2	17,300	56.7	197.5	15,900				110
115	50.9	191.3	16,200	54.2	194.0	14,900				115
120	48.2	187.0	15,200	51.7	190.2	13,900				120
124	45.6	183.3	14,500	48.6	186.9	13,200	52.8	189.2	12,100	124
125	45.4	182.3	14,300	49.0	186.1	13,100	52.3	188.4	11,900	125
130	42.4	177.1	13,400	46.2	181.5	12,300	49.7	184.4	11,200	130
135	39.3	171.3	12,600	43.3	176.5	11,500	46.9	179.9	10,500	135
140	35.9	164.8	11,900	40.2	170.9	10,900	44.1	175.0	9,800	140
145	32.3	157.4	11,200	37.0	164.6	10,200	41.1	169.6	9,200	145
150	28.2	148.9	10,600	33.4	157.5	9,600	37.8	163.5	8,700	150
155	23.5	138.5	10,000	29.5	149.3	9,100	34.4	156.6	8,200	155
159	18.2	127.9	9,500	25.8	141.6	8,600	30.8	150.3	7,800	159
160	17.7	125.2	9,400	25.0	139.6	8,500	30.5	148.8	7,700	160
165	8.7	103.9	8,800	19.6	127.5	8,000	26.2	139.5	7,200	165
166	5.4	95.8	8,700	17.6	123.9	7,900	25.0	137.2	7,100	166
170				12.1	109.9	7,500	21.1	128.1	6,800	170
173				2.4	86.4	7,200	16.8	118.8	6,500	173
175							14.4	112.5	6,300	175
179							4.4	88.4	5,900	179

MLC150-1 S-1

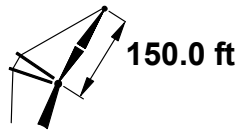
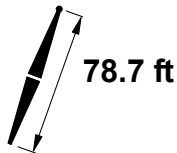
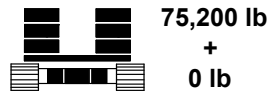
ASME B30.5



	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
50	74.7	230.4	42,800 b							50
55	72.7	229.0	42,000							55
60	70.7	227.3	41,200							60
65	68.6	225.5	40,000	70.9	226.8	40,000				65
70	66.6	223.4	38,100	68.8	225.0	36,200				70
75	64.5	221.1	34,800	66.8	223.0	33,000				75
77	63.2	220.1	33,600	65.2	222.1	31,900	67.6	223.1	30,600	77
80	62.4	218.6	31,900	64.7	220.7	30,300	66.4	221.8	29,000	80
85	60.2	215.9	29,400	62.6	218.2	27,900	64.3	219.5	26,700	85
90	57.9	212.9	27,200	60.4	215.5	25,800	62.2	217.0	24,700	90
95	55.7	209.6	25,300	58.2	212.5	23,900	60.0	214.3	22,900	95
100	53.3	206.0	23,500	55.9	209.3	22,300	57.7	211.2	21,300	100
105	50.9	202.1	22,000	53.5	205.8	20,800	55.5	207.9	19,900	105
110	48.4	197.9	20,600	51.1	201.9	19,500	53.1	204.3	18,600	110
113	46.2	195.1	19,800	49.2	199.4	18,700	51.2	202.0	17,900	113
115	45.8	193.2	19,300	48.6	197.7	18,200	50.7	200.4	17,400	115
120	43.1	188.1	18,200	46.0	193.1	17,100	48.2	196.1	16,400	120
125	40.2	182.5	17,100	43.3	188.0	16,100	45.5	191.4	15,400	125
130	37.1	176.3	16,200	40.5	182.4	15,200	42.8	186.3	14,500	130
135	33.8	169.2	15,300	37.4	176.3	14,300	39.9	180.6	13,700	135
140	30.2	161.2	14,400	34.1	169.3	13,600	36.8	174.3	12,900	140
145	26.2	151.9	13,600	30.6	161.4	12,800	33.5	167.2	12,200	145
150	21.4	140.6	12,900	26.6	152.2	12,100	29.9	159.1	11,500	150
155	15.4	125.6	12,200	21.9	141.1	11,500	25.8	149.6	10,900	155
160	4.1	96.4	11,500	16.1	126.6	10,800	21.0	138.1	10,300	160
165				6.1	101.1	10,200	14.7	122.5	9,700	165
169							6.4	101.1	9,300	169
170										170
175										175
176										176
180										180
183										183
185										185
189										189

MLC150-1 S-1

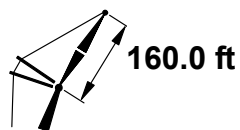
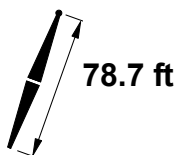
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft		
50									50	
55									55	
60									60	
65									65	
70									70	
75									75	
77									77	
80									80	
85									85	
90									90	
95									95	
100	62.9	216.2	21,200						100	
105	60.7	213.5	19,700						105	
110	58.5	210.6	18,400						110	
113	56.2	207.4	17,200						113	
115	54.2	205.3	16,500	57.8	207.4	15,200			115	
120	53.9	203.9	16,100	56.9	206.1	14,800			120	
125	51.5	200.1	15,100	54.6	202.7	13,800			125	
130	49.0	195.9	14,200	52.2	199.0	13,000			130	
135	46.4	191.4	13,300	49.8	195.0	12,200	52.9	197.2	11,100	130
140	43.7	186.4	12,500	47.2	190.6	11,400	50.4	193.2	10,400	135
145	40.9	180.9	11,800	44.6	185.7	10,800	47.9	188.9	9,700	140
150	37.9	174.8	11,200	41.8	180.4	10,100	45.3	184.2	9,100	145
155	34.7	168.0	10,500	38.8	174.5	9,500	42.5	179.0	8,600	150
160	31.1	160.3	9,900	35.7	167.9	9,000	39.6	173.2	8,100	155
165	27.2	151.3	9,400	32.2	160.5	8,500	36.5	166.9	7,600	160
169	22.7	140.6	8,900	28.5	151.9	8,000	33.2	159.7	7,100	165
170	18.0	129.5	8,500	24.8	143.8	7,600	29.8	153.1	6,800	169
175	17.1	126.8	8,400	24.2	141.8	7,500	29.5	151.4	6,700	170
176	8.4	104.7	7,900	19.0	129.2	7,100	25.3	141.8	6,300	175
180	5.2	96.3	7,700	16.6	125.5	7,000	24.0	139.4	6,200	176
183				11.7	110.9	6,600	20.4	129.9	5,900	180
185				2.4	86.6	6,300	15.8	120.2	5,700	183
189							13.9	113.8	5,500	185
							4.3	88.8	5,200	189

MLC150-1 S-1

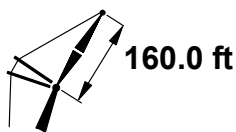
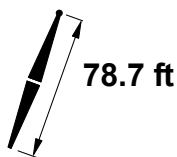
ASME B30.5



	87°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
52	74.9	240.2	39,600 b							52
55	73.8	239.4	39,100							55
60	71.9	237.9	38,200							60
65	70.0	236.1	36,700							65
68	68.8	235.0	35,800	71.0	236.4	37,000				68
70	68.1	234.2	35,200	70.2	235.7	35,900				70
75	66.2	232.1	33,600	68.3	233.8	32,700				75
80	64.2	229.8	31,700	66.4	231.7	30,000	68.0	232.7	28,700	80
85	62.2	227.3	29,200	64.4	229.4	27,600	66.0	230.6	26,400	85
90	60.2	224.5	27,000	62.4	226.9	25,500	64.0	228.2	24,400	90
95	58.1	221.5	25,000	60.4	224.2	23,600	62.0	225.7	22,600	95
100	55.9	218.3	23,300	58.3	221.2	22,000	60.0	222.9	21,000	100
105	53.7	214.8	21,800	56.1	218.0	20,500	57.9	219.9	19,600	105
110	51.5	211.0	20,400	54.0	214.5	19,200	55.7	216.6	18,300	110
115	49.2	206.8	19,100	51.7	210.7	18,000	53.5	213.1	17,100	115
118	47.2	204.1	18,400	49.8	208.2	17,300	51.8	210.8	16,500	118
120	46.8	202.3	17,900	49.4	206.6	16,900	51.3	209.2	16,100	120
125	44.2	197.4	16,900	47.0	202.1	15,900	49.0	205.1	15,100	125
130	41.6	192.0	15,900	44.5	197.2	14,900	46.5	200.5	14,200	130
135	38.8	186.1	15,000	41.9	191.9	14,100	44.0	195.6	13,400	135
136	37.4	184.8	14,900	40.6	190.7	13,900	43.4	194.5	13,200	136
140	35.9	179.6	14,200	39.1	186.1	13,300	41.4	190.1	12,600	140
145	32.7	172.2	13,400	36.2	179.6	12,600	38.6	184.2	11,900	145
150	29.2	163.9	12,700	33.0	172.3	11,900	35.6	177.6	11,300	150
155	25.3	154.2	12,000	29.6	164.1	11,200	32.4	170.2	10,600	155
160	20.8	142.4	11,400	25.7	154.6	10,600	28.9	161.7	10,100	160
165	14.9	126.9	10,800	21.2	143.1	10,000	25.0	151.9	9,500	165
170	3.9	96.8	10,100	15.6	128.0	9,500	20.3	139.9	9,000	170
175				5.9	101.7	8,900	14.3	123.8	8,500	175
179							6.2	101.6	8,100	179
180										180
185										185
186										186
190										190
193										193
195										195
199										199

MLC150-1 S-1

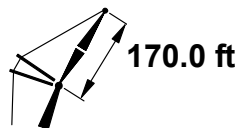
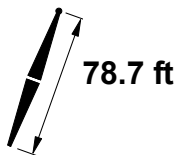
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
52										52
55										55
60										60
65										65
68										68
70										70
75										75
80										80
85										85
90										90
95										95
100	62.7	224.9	19,400							100
105	60.7	222.2	18,100							105
110	58.6	219.3	16,900							110
115	56.5	216.1	15,800							115
118	54.8	214.0	15,200	58.0	216.1	13,900				118
120	54.3	212.6	14,800	57.1	214.8	13,500				120
125	52.1	208.9	13,900	55.0	211.4	12,600				125
130	49.8	204.8	13,000	52.7	207.8	11,800				130
135	47.4	200.4	12,200	50.5	203.8	11,100				135
136	46.4	199.4	12,100	49.6	203.0	11,000	52.9	205.2	9,900	136
140	44.9	195.6	11,500	48.1	199.5	10,400	51.1	202.1	9,400	140
145	42.3	190.3	10,900	45.6	194.8	9,800	48.7	197.9	8,800	145
150	39.5	184.6	10,200	43.1	189.7	9,200	46.3	193.3	8,300	150
155	36.6	178.2	9,700	40.4	184.1	8,700	43.8	188.3	7,800	155
160	33.5	171.1	9,100	37.5	177.9	8,200	41.1	182.8	7,300	160
165	30.1	163.0	8,600	34.5	171.1	7,700	38.3	176.8	6,800	165
170	26.3	153.7	8,100	31.2	163.3	7,200	35.3	170.1	6,400	170
175	22.0	142.6	7,600	27.5	154.4	6,800	32.1	162.6	6,000	175
179	17.0	131.1	7,300	23.8	146.0	6,500	28.8	155.7	5,700	179
180	16.5	128.2	7,200	23.4	143.9	6,400	28.5	154.0	5,600	180
185	8.2	105.4	6,700	18.3	130.8	6,000	24.5	144.0	5,300	185
186	5.0	96.7	6,600	16.6	127.0	5,900	23.0	141.5	5,200	186
190				11.4	111.9	5,600	19.8	131.7	4,900	190
193				2.3	86.8	5,300	15.4	121.7	4,600	193
195							13.5	115.0	4,500	195
199							4.1	89.2	4,100	199

MLC150-1 S-1

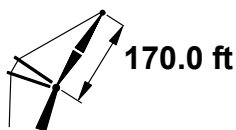
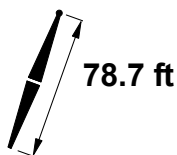
ASME B30.5



ft	87°			83°			80°			ft
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
55	74.8	249.8	34,400							55
60	73.0	248.4	33,800							60
65	71.3	246.7	33,100							65
70	69.5	245.0	32,400							70
72	68.2	244.2	31,800	70.7	245.6	32,000				72
75	67.7	243.0	30,900	69.6	244.5	31,700				75
80	65.8	240.8	29,500	67.8	242.6	29,700				80
84	63.4	239.0	28,400	66.2	240.8	27,800	67.9	241.9	26,600	84
85	64.0	238.5	28,200	66.0	240.4	27,400	67.5	241.4	26,200	85
90	62.1	236.0	26,700	64.1	238.1	25,300	65.7	239.3	24,200	90
95	60.2	233.2	24,800	62.3	235.6	23,400	63.8	236.9	22,400	95
100	58.2	230.2	23,100	60.3	232.8	21,800	61.9	234.4	20,800	100
104	56.4	227.6	21,800	58.4	230.5	20,600	59.4	232.1	19,600	104
105	56.2	227.0	21,500	58.4	229.9	20,300	60.0	231.6	19,400	105
110	54.1	223.5	20,100	56.4	226.7	19,000	58.0	228.6	18,100	110
115	52.0	219.8	18,900	54.3	223.2	17,800	56.0	225.3	16,900	115
120	49.9	215.7	17,700	52.2	219.5	16,700	53.9	221.8	15,900	120
124	47.4	212.2	16,900	50.4	216.3	15,800	51.4	218.8	15,100	124
125	47.6	211.3	16,700	50.1	215.5	15,600	51.8	218.0	14,900	125
130	45.3	206.5	15,700	47.8	211.1	14,700	49.7	213.9	14,000	130
135	42.9	201.4	14,800	45.5	206.4	13,900	47.4	209.5	13,200	135
140	40.3	195.7	14,000	43.1	201.3	13,100	45.1	204.7	12,400	140
142	38.8	193.3	13,700	41.8	199.0	12,800	43.8	202.7	12,100	142
145	37.6	189.6	13,200	40.6	195.7	12,400	42.6	199.5	11,700	145
150	34.8	182.7	12,500	37.9	189.6	11,700	40.1	193.9	11,000	150
155	31.7	175.1	11,800	35.1	182.8	11,000	37.4	187.6	10,400	155
160	28.3	166.5	11,200	32.0	175.2	10,400	34.5	180.7	9,900	160
165	24.6	156.4	10,600	28.7	166.7	9,900	31.4	173.0	9,300	165
170	20.1	144.2	10,100	24.9	156.8	9,300	28.0	164.3	8,800	170
175	14.5	128.2	9,500	20.6	144.9	8,800	24.2	154.1	8,300	175
180	3.8	97.1	8,900	15.1	129.4	8,300	19.7	141.6	7,800	180
185				5.8	102.2	7,800	13.8	125.0	7,400	185
189							6.0	102.1	7,000	189
190										190
195										195
196										196
200										200
203										203
205										205
209										209

MLC150-1 S-1

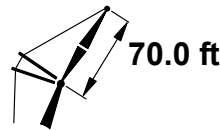
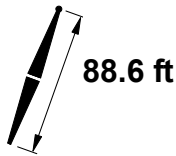
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
55										55
60										60
65										65
70										70
72										72
75										75
80										80
84										84
85										85
90										90
95										95
100										100
104	62.9	234.1	18,100							104
105	62.5	233.6	17,800							105
110	60.6	230.9	16,600							110
115	58.7	227.9	15,500							115
120	56.7	224.8	14,500							120
124	54.4	222.0	13,800	57.7	224.1	12,600				124
125	54.6	221.3	13,600	57.3	223.5	12,400				125
130	52.5	217.7	12,800	55.3	220.1	11,600				130
135	50.4	213.7	12,000	53.2	216.5	10,900				135
140	48.2	209.4	11,300	51.1	212.7	10,200				140
142	46.8	207.5	11,000	49.8	211.0	10,000	52.9	213.2	8,900	142
145	45.9	204.7	10,600	48.9	208.5	9,600	51.6	210.9	8,600	145
150	43.5	199.7	10,000	46.6	203.9	9,000	49.4	206.8	8,000	150
155	41.0	194.1	9,400	44.2	199.0	8,500	47.2	202.3	7,500	155
160	38.3	188.1	8,900	41.7	193.6	8,000	44.8	197.5	7,000	160
165	35.5	181.4	8,400	39.1	187.7	7,500	42.4	192.2	6,600	165
170	32.5	174.0	7,900	36.4	181.3	7,000	39.8	186.5	6,200	170
175	29.2	165.7	7,500	33.4	174.1	6,600	37.1	180.2	5,800	175
180	25.5	156.0	7,000	30.2	166.1	6,200	34.2	173.2	5,400	180
185	21.3	144.5	6,600	26.7	156.8	5,800	31.1	165.4	5,000	185
189	17.0	132.6	6,300	22.8	148.1	5,500	27.8	158.3	4,600	189
190	16.0	129.7	6,200	22.7	146.0	5,500	27.7	156.5	4,600	190
195	7.9	106.1	5,800	17.8	132.4	5,100	23.8	146.1	4,200	195
196				15.8	128.5	5,000	22.2	143.6	4,100	196
200				11.0	112.9	4,700	19.2	133.4	3,800	200
203				2.2	87.0	4,500	15.4	123.1	3,600	203
205							13.1	116.1	3,500	205
209							4.0	89.5	3,200	209

MLC150-1 S-1

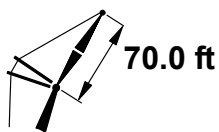
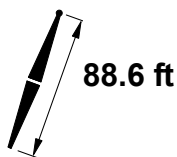
ASME B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
30	74.2	162.9	100,800 d							30
32	72.5	162.3	100,700 d							32
34	70.7	161.7	100,700 d							34
36	69.0	160.9	95,200 c							36
38	67.2	160.1	88,300 c							38
40	65.4	159.2	82,400 c	70.9	161.0	78,400 d				40
42	63.6	158.3	77,100 c	69.1	160.3	73,400 d				42
44	61.8	157.3	72,400 c	67.4	159.5	68,900 c				44
46	59.9	156.1	68,300 c	65.6	158.6	65,000 c				46
48	58.0	154.9	64,500 b	63.8	157.7	61,400 c	67.9	158.9	59,100 c	48
50	56.0	153.6	61,200 b	61.9	156.7	58,200 c	66.1	158.1	56,000 c	50
55	50.9	149.9	54,000 b	57.2	153.7	51,400 b	61.5	155.6	49,400 c	55
60	45.5	145.5	48,300 b	52.2	150.2	45,900 b	56.8	152.6	44,200 b	60
61	43.8	144.4	47,300 b	50.8	149.3	45,000 b	55.0	151.9	43,300 b	61
65	39.4	140.0	43,500	46.8	145.9	41,400 b	51.7	149.0	39,800 b	65
70	32.4	133.1	39,500	40.9	140.7	37,600	46.3	144.7	36,200 b	70
74	24.8	125.6	36,800	35.2	135.5	35,000	41.2	140.5	33,700 b	74
75	23.7	123.7	36,100	34.1	134.2	34,400	40.3	139.4	33,000	75
80	9.2	106.7	33,000	26.0	125.5	31,500	33.5	132.7	30,400	80
85				13.9	111.7	29,000	25.2	123.8	28,000	85
86				7.5	104.7	28,500	22.4	120.9	27,500	86
87				2.3	97.7	28,000	19.8	118.0	27,100	87
90							12.4	109.1	25,800	90
91							7.7	103.5	25,400	91
95										95
99										99
100										100
105										105
106										106
110										110
113										113

MLC150-1 S-1

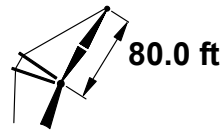
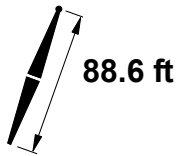
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
30										30
32										32
34										34
36										36
38										38
40										40
42										42
44										44
46										46
48										48
50										50
55										55
60										60
61	63.0	154.6	40,400 c							61
65	59.2	152.3	37,200 b							65
70	54.3	149.1	33,700 b							70
74	50.0	145.9	31,400 b	57.6	148.8	29,200 b				74
75	49.1	145.1	30,800 b	56.6	148.2	28,700 b				75
80	43.4	140.3	28,300	51.6	144.5	26,300 b				80
85	37.1	134.4	26,100	46.1	140.2	24,300 b				85
86	35.4	132.9	25,700	44.8	139.1	23,900 b	52.7	142.2	22,100 b	86
87	33.8	131.4	25,400	43.6	138.0	23,600 b	51.0	141.4	21,800 b	87
90	29.6	126.8	24,200	40.2	134.8	22,500	48.5	138.9	20,800 b	90
91	27.0	124.7	23,800	38.6	133.5	22,100	46.8	138.0	20,500 b	91
95	19.9	116.0	22,400	33.3	128.1	20,900	42.7	134.0	19,300	95
99	3.9	97.0	21,000	25.8	120.9	19,700	37.2	129.2	18,200	99
100				24.9	119.1	19,400	36.3	128.0	17,900	100
105				11.9	104.1	18,000	28.7	120.1	16,700	105
106				6.8	98.0	17,700	26.0	117.8	16,500	106
110							18.4	108.6	15,600	110
113							7.4	95.5	14,900	113

MLC150-1 S-1

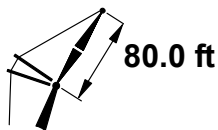
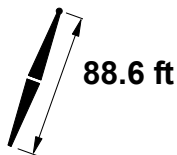
ASME B30.5



	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
32	74.7	172.8	92,400 d							32
34	73.2	172.2	92,300 d							34
36	71.7	171.5	92,200 c							36
38	70.2	170.9	88,100 c							38
40	68.7	170.1	82,100 c							40
42	67.1	169.3	76,800 c							42
44	65.6	168.4	72,200 c	70.3	170.2	68,600 c				44
46	64.0	167.5	68,000 b	68.8	169.5	64,700 c				46
48	62.4	166.5	64,300 b	67.2	168.7	61,100 c				48
50	60.7	165.4	60,900 b	65.7	167.8	57,900 c				50
52	58.4	164.2	58,100 b	63.4	166.8	55,200 c	67.7	168.1	52,800 c	52
55	56.5	162.3	53,800 b	61.7	165.3	51,100 b	65.4	166.8	49,100 c	55
60	52.1	158.7	48,000	57.5	162.4	45,600 b	61.4	164.3	43,800 b	60
65	47.4	154.5	43,300	53.2	158.9	41,100 b	57.2	161.3	39,500 b	65
66	46.0	153.5	42,500	52.0	158.1	40,400 b	56.0	160.6	38,800 b	66
70	42.4	149.5	39,300	48.6	154.9	37,300	52.8	157.8	35,900 b	70
75	36.7	143.4	36,000	43.6	150.0	34,100	48.2	153.7	32,800	75
79	31.2	137.4	33,600	39.0	145.4	31,900	44.0	149.8	30,600	79
80	30.3	135.9	33,000	38.1	144.3	31,400	43.2	148.8	30,100	80
85	22.1	125.7	30,500	31.9	137.1	28,900	37.6	142.9	27,800	85
90	8.6	107.5	28,100	24.2	127.7	26,800	31.3	135.6	25,700	90
92				19.6	121.8	26,000	27.8	131.8	25,000	92
95				13.0	112.9	24,800	23.5	126.0	23,900	95
97				2.2	97.9	24,000	18.2	119.7	23,200	97
100							11.6	110.2	22,200	100
101							7.2	104.2	21,800	101
105										105
109										109
110										110
115										115
116										116
120										120
123										123

MLC150-1 S-1

ASME B30.5



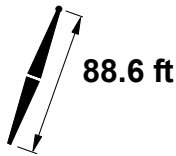
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
32										32
34										34
36										36
38										38
40										40
42										42
44										44
46										46
48										48
50										50
52										52
55										55
60										60
65										65
66	62.6	163.2	36,100 b							66
70	59.3	161.0	33,400 b							70
75	55.0	157.8	30,500 b							75
79	51.0	154.7	28,500 b	57.9	157.5	26,400 b				79
80	50.5	154.0	28,000	57.1	156.8	25,900 b				80
85	45.7	149.5	25,800	52.7	153.3	23,900 b				85
90	40.5	144.2	23,900	48.0	149.2	22,100				90
92	37.6	141.6	23,200	46.0	147.2	21,500	52.8	150.2	19,800 b	92
95	34.6	137.7	22,200	43.0	144.3	20,500	50.0	147.8	18,900	95
97	31.2	134.4	21,600	40.6	141.9	20,000	48.0	146.0	18,400	97
100	27.7	129.4	20,700	37.5	138.4	19,100	45.2	143.3	17,600	100
101	25.2	127.0	20,400	35.8	136.9	18,900	43.8	142.2	17,400	101
105	18.6	117.7	19,300	31.1	131.0	17,800	39.8	137.8	16,400	105
109	3.6	97.3	18,100	24.6	123.2	16,900	34.2	132.5	15,500	109
110				23.2	121.3	16,600	33.9	131.1	15,300	110
115				11.1	105.1	15,500	26.8	122.6	14,300	115
116				6.4	98.6	15,300	24.2	120.1	14,100	116
120							17.2	110.2	13,400	120
123							6.9	96.1	12,800	123

MLC150-1 S-1

ASME B30.5



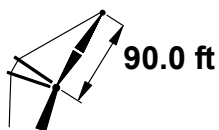
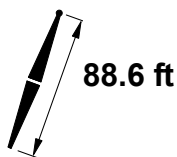
75,200 lb
+
0 lb



	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
35	74.5	182.3	83,200 d							35
36	73.8	182.0	83,200 d							36
38	72.5	181.4	83,000 c							38
40	71.1	180.8	81,900 c							40
42	69.8	180.0	76,600 c							42
44	68.4	179.3	72,000 c							44
46	67.0	178.5	67,800 c							46
47	66.0	178.0	66,000 c	70.6	179.8	62,600 c				47
48	65.7	177.6	64,100 b	69.9	179.4	60,900 c				48
50	64.3	176.6	60,700 b	68.5	178.6	57,700 c				50
55	60.7	174.0	53,600 b	65.1	176.5	50,900 b				55
56	59.2	173.4	52,500 b	64.2	176.0	49,800 b	67.6	177.3	47,700 c	56
60	56.9	171.0	47,900 b	61.5	174.0	45,400 b	64.8	175.5	43,600 b	60
65	53.1	167.5	43,100	57.8	171.1	40,900 b	61.2	173.0	39,300 b	65
70	49.0	163.5	39,200	54.0	167.7	37,200	57.5	170.0	35,700 b	70
71	47.2	162.5	38,500	52.2	166.9	36,500	56.2	169.3	35,000 b	71
75	44.6	158.8	35,800	49.9	163.8	34,000	53.6	166.6	32,600	75
80	39.8	153.2	32,900	45.6	159.2	31,200	49.6	162.6	29,900	80
85	34.6	146.7	30,400	41.0	153.9	28,800	45.3	158.0	27,600	85
90	28.5	138.5	28,200	35.9	147.6	26,700	40.6	152.6	25,600	90
95	20.9	127.6	26,200	30.0	139.9	24,800	35.4	146.2	23,800	95
98	12.8	116.0	25,100	25.2	133.8	23,800	31.4	141.5	22,800	98
100	8.1	108.2	24,300	22.8	129.8	23,100	29.5	138.4	22,200	100
105				12.3	114.0	21,500	22.1	128.0	20,700	105
107				2.0	98.1	20,900	17.2	121.3	20,100	107
110							11.0	111.2	19,300	110
111							6.8	104.8	19,000	111
115										115
119										119
120										120
125										125
126										126
130										130
133										133

MLC150-1 S-1

ASME B30.5



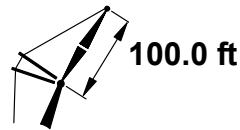
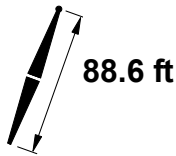
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft		
35									35	
36									36	
38									38	
40									40	
42									42	
44									44	
46									46	
47									47	
48									48	
50									50	
55									55	
56									56	
60									60	
65									65	
70									70	
71	62.3	171.9	32,500 b						71	
75	59.4	169.7	30,300 b						75	
80	55.6	166.5	27,800						80	
85	51.7	162.8	25,600	57.4	165.5	23,700 b			85	
90	47.5	158.5	23,700	53.5	162.1	21,900			90	
95	43.0	153.6	22,100	49.5	158.1	20,300			95	
98	39.6	150.1	21,100	46.6	155.3	19,500	52.8	158.2	17,900	98
100	38.1	147.7	20,500	45.1	153.5	18,900	51.2	156.7	17,400	100
105	32.6	140.7	19,200	40.4	148.1	17,700	47.0	152.3	16,200	105
107	29.6	137.1	18,700	38.0	145.5	17,200	44.4	150.3	15,800	107
110	26.1	131.8	17,900	35.2	141.6	16,500	42.4	147.3	15,100	110
111	24.2	129.3	17,700	33.8	140.0	16,300	41.0	146.1	14,900	111
115	17.5	119.3	16,800	29.3	133.7	15,500	37.5	141.3	14,200	115
119	3.4	97.6	15,800	22.6	125.3	14,700	32.2	135.5	13,400	119
120				21.9	123.3	14,500	31.9	134.1	13,300	120
125				10.5	106.0	13,500	25.2	124.9	12,400	125
126				6.0	99.1	13,300	23.2	122.2	12,300	126
130							16.2	111.7	11,600	130
133							6.5	96.7	11,100	133

MLC150-1 S-1

ASME B30.5



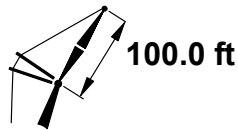
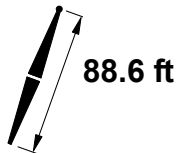
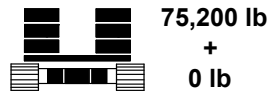
75,200 lb
+
0 lb



	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	lb	ft	
37	74.9	192.1	76,200 c							37
38	74.3	191.8	76,100 c							38
40	73.1	191.3	75,900 c							40
42	71.9	190.6	75,800 c							42
44	70.7	189.9	71,700 c							44
46	69.5	189.2	67,600 b							46
48	68.2	188.4	63,800 b							48
50	67.0	187.6	60,500 b	70.8	189.3	57,400 c				50
55	63.8	185.3	53,300 b	67.7	187.4	50,600 b				55
60	60.6	182.7	47,600	64.6	185.2	45,100 b	67.4	186.4	43,300 b	60
65	57.2	179.7	42,900	61.4	182.6	40,600 b	64.3	184.2	38,900 b	65
70	53.8	176.2	38,900	58.0	179.7	36,900	61.1	181.6	35,300	70
75	50.1	172.3	35,600	54.6	176.4	33,700	57.8	178.7	32,300	75
80	46.3	167.9	32,700	51.0	172.6	30,900	54.3	175.3	29,600	80
85	42.2	162.7	30,200	47.2	168.3	28,500	50.7	171.5	27,300	85
90	37.7	156.8	28,000	43.2	163.3	26,400	46.9	167.1	25,300	90
95	32.8	149.7	26,000	38.8	157.5	24,600	42.8	162.0	23,500	95
100	27.0	141.0	24,300	34.0	150.7	22,900	38.4	156.2	21,900	100
104	20.4	131.7	23,000	29.0	144.1	21,700	34.0	150.7	20,800	104
105	19.8	129.4	22,700	28.4	142.5	21,400	33.5	149.3	20,500	105
110	7.7	108.9	21,100	21.7	131.8	20,000	27.9	140.9	19,200	110
115				11.6	115.1	18,700	21.0	129.9	17,900	115
117				1.9	98.2	18,200	16.0	122.8	17,500	117
120							10.4	112.1	16,800	120
121							6.5	105.4	16,500	121
125										125
129										129
130										130
135										135
136										136
140										140
143										143

MLC150-1 S-1

ASME B30.5



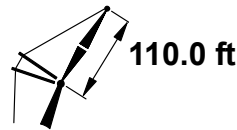
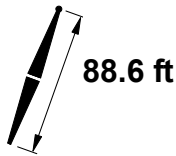
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
37										37
38										38
40										40
42										42
44										44
46										46
48										48
50										50
55										55
60										60
65										65
70										70
75	62.7	181.1	29,900 b							75
80	59.4	178.3	27,400							80
85	56.1	175.2	25,300							85
90	52.5	171.6	23,400	57.7	174.2	21,500				90
95	48.8	167.5	21,700	54.2	170.8	20,000				95
100	44.9	162.8	20,200	50.6	166.9	18,600				100
104	40.8	158.5	19,200	46.8	163.4	17,600	52.8	166.2	16,000	104
105	40.7	157.4	18,900	46.8	162.5	17,300	52.1	165.5	15,800	105
110	36.1	151.1	17,700	42.7	157.5	16,200	48.4	161.3	14,800	110
115	30.9	143.5	16,600	38.3	151.6	15,200	44.4	156.5	13,800	115
117	27.6	139.7	16,100	36.0	148.9	14,800	42.4	154.3	13,400	117
120	24.7	134.0	15,500	33.4	144.7	14,200	40.2	151.0	12,900	120
121	22.4	131.4	15,300	31.8	143.0	14,000	39.0	149.8	12,800	121
125	16.6	120.8	14,600	27.7	136.2	13,300	35.5	144.6	12,100	125
129	3.3	97.9	13,700	21.4	127.4	12,700	31.0	138.4	11,500	129
130				20.8	125.1	12,500	30.2	136.9	11,400	130
135				9.9	106.9	11,700	23.9	127.1	10,700	135
136				5.7	99.6	11,500	21.4	124.3	10,500	136
140							15.4	113.1	10,000	140
143							6.2	97.3	9,500	143

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ASME B30.5



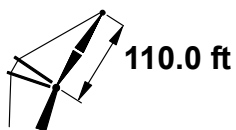
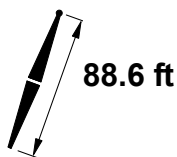
75,200 lb
+
0 lb



ft	87°			83°			80°			ft
	ft	ft	lb	ft	lb	ft	lb	lb		
40	74.7	201.7	69,900 c							40
42	73.6	201.1	69,700 c							42
44	72.5	200.5	69,100 c							44
46	71.4	199.8	67,400 b							46
48	70.3	199.1	63,700 b							48
50	69.2	198.4	60,300 b							50
53	67.2	197.2	56,100 b	70.9	198.9	53,000 b				53
55	66.4	196.4	53,200 b	69.8	198.1	50,400 b				55
60	63.5	194.0	47,500	67.0	196.2	45,000 b				60
63	61.2	192.4	44,700	65.2	194.8	42,300 b	67.9	196.0	40,500 b	63
65	60.5	191.4	42,800	64.2	193.9	40,500	66.8	195.2	38,800 b	65
70	57.5	188.4	38,900	61.2	191.3	36,800	63.9	192.9	35,200	70
75	54.4	185.0	35,500	58.2	188.4	33,600	61.0	190.3	32,200	75
80	51.1	181.2	32,600	55.1	185.1	30,900	58.0	187.3	29,500	80
85	47.7	176.9	30,100	51.9	181.4	28,500	54.8	184.0	27,200	85
90	44.0	172.0	27,900	48.5	177.2	26,400	51.6	180.3	25,200	90
95	40.1	166.5	26,000	44.9	172.5	24,500	48.2	176.1	23,500	95
100	35.9	160.1	24,300	41.1	167.1	22,900	44.6	171.3	21,900	100
105	31.2	152.5	22,700	36.9	161.0	21,400	40.7	165.9	20,400	105
110	25.7	143.3	21,300	32.3	153.7	20,100	36.6	159.6	19,100	110
115	18.8	131.1	20,000	27.1	145.0	18,800	31.9	152.3	18,000	115
120	7.3	109.6	18,700	20.6	133.7	17,700	26.6	143.3	16,900	120
125				11.1	116.1	16,600	20.0	131.7	15,900	125
127				1.8	98.4	16,100	15.6	124.2	15,500	127
130							9.9	113.0	14,900	130
131							6.2	105.9	14,700	131
135										135
139										139
140										140
145										145
146										146
150										150
153										153

MLC150-1 S-1

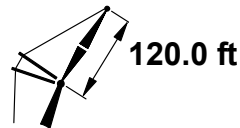
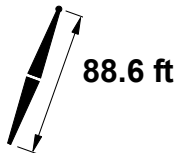
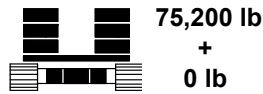
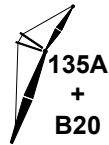
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft		
40									40	
42									42	
44									44	
46									46	
48									48	
50									50	
53									53	
55									55	
60									60	
63									63	
65									65	
70									70	
75									75	
80	62.5	189.8	27,300						80	
85	59.5	187.0	25,200						85	
90	56.4	183.9	23,300						90	
95	53.2	180.3	21,700	57.9	182.9	19,900			95	
100	49.9	176.4	20,200	54.7	179.5	18,500			100	
105	46.4	171.9	18,800	51.5	175.8	17,300			105	
110	42.7	166.8	17,600	48.1	171.5	16,200	52.9	174.2	14,700	110
115	38.7	161.0	16,500	44.5	166.8	15,100	49.5	170.2	13,800	115
120	34.3	154.3	15,500	40.6	161.3	14,200	46.0	165.7	12,900	120
125	29.4	146.2	14,600	36.4	155.0	13,300	42.3	160.5	12,100	125
127	26.6	142.2	14,300	34.0	152.1	13,000	40.4	158.1	11,800	127
130	23.6	136.2	13,700	31.8	147.6	12,500	38.2	154.6	11,400	130
131	21.4	133.4	13,600	30.0	145.8	12,400	37.0	153.2	11,200	131
135	15.8	122.2	12,900	26.4	138.7	11,800	33.8	147.7	10,700	135
139	3.1	98.2	12,200	20.4	129.3	11,200	29.0	141.1	10,200	139
140				19.8	126.9	11,100	28.8	139.5	10,000	140
145				9.5	107.8	10,400	22.8	129.1	9,400	145
146				5.4	100.1	10,200	20.4	126.2	9,300	146
150							14.7	114.4	8,800	150
153							5.9	97.8	8,500	153

MLC150-1 S-1

ASME B30.5



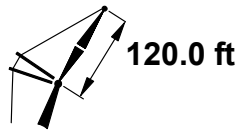
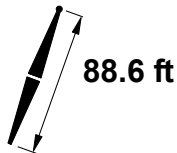
	87°			83°			80°			
ft	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
42	75.0	211.5	63,900 c							42
44	74.0	210.9	63,700 c							44
46	73.0	210.3	63,100 b							46
48	72.0	209.7	62,200 b							48
50	71.0	209.0	60,100 b							50
55	68.4	207.2	53,000 b							55
57	66.8	206.3	50,700 b	70.6	208.0	47,800 b				57
60	65.8	205.1	47,200	69.0	206.9	44,700 b				60
65	63.2	202.7	42,500	66.5	204.9	40,200				65
67	61.8	201.6	41,000	64.8	204.0	38,700	67.8	205.2	37,000 b	67
70	60.5	200.0	38,600	63.8	202.6	36,500	66.2	203.9	34,900	70
75	57.7	197.0	35,300	61.1	200.0	33,300	63.6	201.6	31,800	75
80	54.8	193.7	32,400	58.4	197.1	30,600	60.9	198.9	29,200	80
84	51.6	190.7	30,400	55.6	194.5	28,700	58.4	196.6	27,400	84
85	51.9	190.0	29,900	55.5	193.8	28,200	58.1	196.0	26,900	85
90	48.8	185.8	27,700	52.6	190.2	26,100	55.3	192.7	24,900	90
95	45.5	181.2	25,800	49.5	186.1	24,300	52.3	189.0	23,200	95
100	42.1	176.0	24,000	46.3	181.6	22,600	49.2	185.0	21,600	100
101	41.2	174.8	23,700	45.2	180.6	22,300	48.4	184.0	21,300	101
105	38.4	170.0	22,500	42.9	176.5	21,100	46.0	180.4	20,200	105
110	34.3	163.2	21,100	39.2	170.8	19,800	42.6	175.3	18,900	110
115	29.8	155.3	19,800	35.3	164.2	18,600	38.9	169.5	17,700	115
116	28.0	153.3	19,500	34.0	162.7	18,400	37.2	168.1	17,500	116
120	24.6	145.5	18,600	30.9	156.6	17,500	35.0	162.8	16,600	120
125	18.0	132.7	17,500	25.9	147.3	16,500	30.5	155.0	15,700	125
130	7.0	110.2	16,400	19.8	135.4	15,500	25.4	145.6	14,700	130
135				10.6	117.0	14,600	19.2	133.4	13,900	135
137				1.8	98.6	14,200	15.0	125.6	13,600	137
140							9.5	113.8	13,100	140
141							5.9	106.4	12,900	141
145										145
149										149
150										150
155										155
156										156
160										160
163										163

MLC150-1 S-1

ASME B30.5



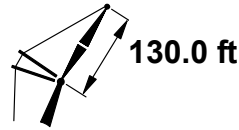
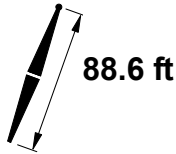
75,200 lb
+
0 lb



	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
42										42
44										44
46										46
48										48
50										50
55										55
57										57
60										60
65										65
67										67
70										70
75										75
80										80
84	62.8	199.0	25,300							84
85	62.3	198.4	24,900							85
90	59.5	195.7	23,000							90
95	56.7	192.5	21,300							95
100	53.8	189.1	19,800							100
101	52.4	188.3	19,600	57.5	190.9	17,900				101
105	50.8	185.2	18,500	55.2	188.2	16,900				105
110	47.7	180.9	17,300	52.2	184.6	15,800				110
115	44.3	176.1	16,200	49.1	180.5	14,800				115
116	43.2	175.0	16,000	48.2	179.5	14,600	52.9	182.2	13,200	116
120	40.8	170.6	15,200	45.9	175.9	13,900	50.4	179.1	12,500	120
125	37.0	164.4	14,300	42.5	170.7	13,000	47.3	174.7	11,700	125
130	32.8	157.3	13,500	38.8	164.9	12,200	43.9	169.8	11,000	130
135	28.1	148.8	12,700	34.8	158.2	11,500	40.4	164.3	10,300	135
137	25.6	144.5	12,400	32.4	155.1	11,200	38.4	161.8	10,100	137
140	22.5	138.2	12,000	30.4	150.4	10,800	36.5	158.0	9,700	140
141	20.6	135.3	11,800	29.0	148.5	10,700	35.2	156.5	9,600	141
145	15.1	123.5	11,300	25.3	140.9	10,200	32.3	150.7	9,100	145
149	3.0	98.4	10,700	19.4	131.1	9,700	28.0	143.7	8,700	149
150				18.9	128.6	9,600	27.5	142.0	8,600	150
155				9.1	108.6	9,000	21.8	131.1	8,100	155
156				5.2	100.6	8,800	19.6	128.0	8,000	156
160							14.0	115.6	7,500	160
163							5.6	98.3	7,200	163

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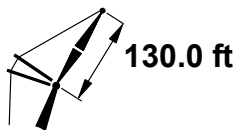
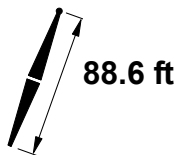
ASME B30.5



	87°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
45	74.8	221.0	48,800 c							45
46	74.3	220.8	48,600 b							46
48	73.4	220.2	48,300 b							48
50	72.5	219.6	47,900 b							50
55	70.2	217.9	47,000 b							55
60	67.8	216.0	46,100	70.7	217.6	44,500 b				60
65	65.4	213.8	42,300	68.4	215.7	40,000				65
70	63.0	211.4	38,400	66.0	213.6	36,300				70
71	61.6	210.8	37,700	64.6	213.1	35,600	67.7	214.4	34,000	71
75	60.5	208.7	35,100	63.5	211.3	33,100	65.8	212.6	31,600	75
80	57.9	205.7	32,200	61.0	208.6	30,300	63.3	210.2	29,000	80
85	55.3	202.4	29,700	58.5	205.7	28,000	60.8	207.6	26,700	85
89	52.6	199.5	27,900	55.6	203.1	26,300	58.4	205.2	25,100	89
90	52.5	198.7	27,500	55.9	202.5	25,900	58.3	204.7	24,700	90
95	49.7	194.7	25,600	53.2	198.9	24,100	55.6	201.4	22,900	95
100	46.7	190.2	23,800	50.4	195.0	22,400	52.9	197.8	21,400	100
105	43.6	185.3	22,300	47.4	190.6	20,900	50.1	193.8	19,900	105
106	42.4	184.2	22,000	46.4	189.7	20,700	49.4	193.0	19,700	106
110	40.3	179.7	20,900	44.4	185.8	19,600	47.2	189.4	18,700	110
115	36.8	173.4	19,600	41.1	180.4	18,400	44.1	184.5	17,500	115
120	32.9	166.3	18,500	37.6	174.3	17,300	40.8	179.1	16,400	120
122	30.4	162.9	18,000	35.4	171.5	16,900	38.8	176.6	16,100	122
125	28.6	157.9	17,400	33.9	167.3	16,300	37.3	172.9	15,500	125
130	23.6	147.7	16,400	29.7	159.3	15,400	33.5	165.9	14,600	130
135	17.3	134.3	15,500	24.9	149.6	14,500	29.3	157.7	13,700	135
140	6.7	110.8	14,600	19.0	137.1	13,700	24.4	147.8	13,000	140
145				10.2	117.9	12,900	18.4	135.1	12,200	145
147				1.7	98.7	12,500	14.4	126.9	11,900	147
150							9.1	114.7	11,500	150
151							5.7	107.0	11,400	151
155										155
159										159
160										160
165										165
166										166
170										170
173										173

MLC150-1 S-1

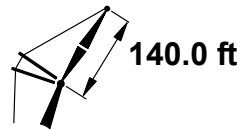
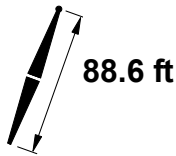
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
45										45
46										46
48										48
50										50
55										55
60										60
65										65
70										70
71										71
75										75
80										80
85										85
89	62.6	207.6	23,100							89
90	62.1	207.1	22,700							90
95	59.6	204.3	21,100							95
100	57.0	201.2	19,600							100
105	54.3	197.8	18,300							105
106	53.4	197.0	18,000	57.7	199.6	16,400				106
110	51.6	194.0	17,100	55.6	196.9	15,600				110
115	48.7	189.8	16,000	52.9	193.3	14,500				115
120	45.7	185.2	15,000	50.0	189.3	13,600				120
122	43.8	183.1	14,700	48.8	187.6	13,300	52.9	190.2	11,900	122
125	42.5	180.1	14,100	47.1	184.9	12,800	51.2	187.9	11,500	125
130	39.1	174.3	13,300	44.0	180.0	12,000	48.3	183.7	10,800	130
135	35.5	167.7	12,500	40.7	174.5	11,300	45.3	179.0	10,100	135
140	31.5	160.2	11,800	37.2	168.4	10,600	42.1	173.7	9,500	140
145	27.0	151.2	11,100	33.4	161.3	10,000	38.7	167.9	8,900	145
147	24.0	146.8	10,900	31.4	158.0	9,800	36.8	165.2	8,700	147
150	21.6	140.2	10,500	29.2	153.1	9,400	35.1	161.2	8,400	150
151	19.6	137.1	10,400	28.0	151.1	9,300	34.2	159.7	8,300	151
155	14.5	124.8	9,900	24.3	143.1	8,900	31.0	153.5	7,900	155
159	2.9	98.7	9,300	19.2	132.8	8,400	27.0	146.2	7,500	159
160				18.2	130.3	8,300	26.4	144.4	7,400	160
165				8.7	109.3	7,800	20.9	133.0	6,900	165
166				5.0	101.0	7,700	18.6	129.8	6,800	166
170							13.5	116.8	6,500	170
173							5.4	98.8	6,200	173

MLC150-1 S-1

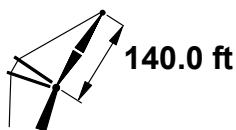
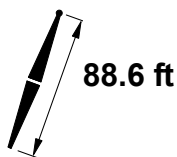
ASME B30.5



	87°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	lb	ft	
48	74.6	230.6	45,300 b							48
50	73.8	230.0	44,900 b							50
55	71.6	228.5	44,100 b							55
60	69.5	226.7	43,400							60
63	67.8	225.5	42,600	70.8	227.1	41,400				63
65	67.3	224.7	42,100	70.0	226.4	39,700				65
70	65.0	222.5	38,100	67.8	224.5	36,000				70
75	62.8	220.0	34,800	65.6	222.3	32,800	67.6	223.5	31,300	75
80	60.4	217.3	31,900	63.3	219.9	30,100	65.4	221.3	28,700	80
85	58.0	214.4	29,400	61.0	217.3	27,700	63.1	218.9	26,400	85
90	55.6	211.1	27,200	58.6	214.4	25,600	60.8	216.3	24,400	90
93	53.8	208.9	26,100	56.8	212.5	24,500	58.8	214.5	23,300	93
95	53.1	207.5	25,300	56.2	211.2	23,800	58.4	213.3	22,600	95
100	50.5	203.6	23,600	53.7	207.7	22,100	56.0	210.1	21,100	100
105	47.8	199.2	22,000	51.1	203.8	20,700	53.5	206.6	19,600	105
110	44.9	194.5	20,600	48.4	199.6	19,300	50.9	202.7	18,400	110
111	43.4	193.4	20,400	47.4	198.6	19,100	49.6	201.8	18,100	111
115	42.0	189.2	19,400	45.6	194.9	18,100	48.2	198.4	17,200	115
120	38.8	183.3	18,200	42.7	189.8	17,000	45.4	193.7	16,200	120
125	35.4	176.7	17,200	39.6	184.0	16,000	42.4	188.5	15,200	125
128	32.6	172.2	16,600	37.2	180.2	15,500	40.2	185.0	14,700	128
130	31.7	169.2	16,200	36.2	177.6	15,100	39.3	182.7	14,300	130
135	27.6	160.4	15,300	32.6	170.3	14,200	35.9	176.2	13,500	135
140	22.8	149.7	14,400	28.6	161.9	13,400	32.3	168.9	12,700	140
145	16.7	135.8	13,600	24.0	151.7	12,700	28.2	160.3	12,000	145
150	6.5	111.4	12,800	18.3	138.8	12,000	23.5	150.0	11,300	150
155				9.8	118.8	11,300	17.7	136.7	10,700	155
157				1.6	98.9	11,000	13.4	128.2	10,400	157
160							8.8	115.4	10,100	160
161							5.5	107.4	9,900	161
165										165
169										169
170										170
175										175
176										176
180										180
183										183

MLC150-1 S-1

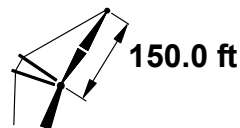
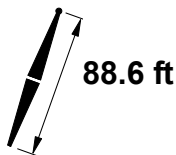
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
48										48
50										50
55										55
60										60
63										63
65										65
70										70
75										75
80										80
85										85
90										90
93	62.9	216.8	21,400							93
95	62.0	215.8	20,700							95
100	59.6	213.0	19,300							100
105	57.2	209.9	17,900							105
110	54.7	206.5	16,800							110
111	53.6	205.8	16,500	57.9	208.2	15,000				111
115	52.2	202.8	15,700	55.9	205.6	14,200				115
120	49.6	198.7	14,700	53.4	202.1	13,300				120
125	46.8	194.3	13,800	50.8	198.2	12,400				125
128	44.2	191.3	13,300	48.8	195.6	12,000	52.9	198.2	10,700	128
130	43.9	189.3	13,000	48.1	193.9	11,700	51.9	196.7	10,400	130
135	40.9	183.9	12,200	45.3	189.2	11,000	49.2	192.6	9,700	135
140	37.7	177.7	11,500	42.3	184.0	10,300	46.5	188.1	9,100	140
145	34.2	170.8	10,800	39.2	178.2	9,700	43.6	183.1	8,600	145
150	30.3	162.9	10,200	35.8	171.7	9,100	40.5	177.5	8,000	150
155	26.0	153.6	9,600	32.2	164.2	8,600	37.3	171.3	7,500	155
157	23.0	149.0	9,400	30.4	160.8	8,400	35.4	168.5	7,400	157
160	20.8	142.0	9,100	28.1	155.6	8,100	33.7	164.3	7,100	160
161	18.8	138.8	9,000	27.0	153.5	8,000	32.2	162.7	7,000	161
165	14.0	126.1	8,500	23.4	145.3	7,600	29.9	156.2	6,600	165
169	2.8	98.9	8,100	18.2	134.5	7,200	25.8	148.6	6,300	169
170				17.5	131.8	7,100	25.4	146.7	6,200	170
175				8.4	110.1	6,600	20.2	134.8	5,800	175
176				4.8	101.4	6,500	18.4	131.4	5,700	176
180							13.0	118.0	5,400	180
183							5.2	99.3	5,100	183

MLC150-1 S-1

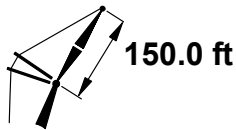
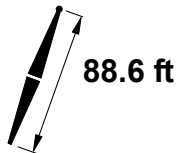
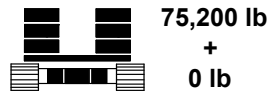
ASME B30.5



ft	87°			83°			80°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50	74.9	240.4	42,100 b							50
55	72.9	239.0	41,300 b							55
60	70.9	237.3	40,600							60
65	68.9	235.5	39,900							65
66	67.6	235.1	39,500	71.0	236.7	38,800				66
70	66.8	233.5	38,000	69.3	235.2	35,800				70
75	64.7	231.2	34,700	67.3	233.2	32,700				75
78	62.8	229.7	32,900	65.8	231.9	31,000	67.9	233.1	29,500	78
80	62.6	228.7	31,800	65.2	231.0	29,900	67.1	232.3	28,500	80
85	60.4	226.0	29,300	63.1	228.6	27,600	65.0	230.0	26,300	85
90	58.2	223.0	27,100	60.9	226.0	25,500	62.9	227.6	24,300	90
95	55.9	219.8	25,200	58.7	223.0	23,700	60.7	224.9	22,500	95
98	53.8	217.7	24,200	56.8	221.1	22,700	58.8	223.2	21,600	98
100	53.6	216.3	23,500	56.4	219.9	22,000	58.5	222.0	20,900	100
105	51.1	212.4	21,900	54.1	216.4	20,600	56.2	218.8	19,500	105
110	48.7	208.2	20,500	51.7	212.6	19,200	53.9	215.3	18,300	110
115	46.1	203.6	19,300	49.2	208.5	18,000	51.5	211.5	17,100	115
116	45.4	202.6	19,000	48.4	207.6	17,800	50.6	210.7	16,900	116
120	43.3	198.5	18,100	46.7	204.0	16,900	49.0	207.3	16,100	120
125	40.5	193.0	17,100	44.0	199.0	15,900	46.4	202.8	15,100	125
130	37.4	186.8	16,100	41.2	193.6	15,000	43.8	197.8	14,200	130
134	34.6	181.2	15,400	38.6	188.8	14,300	40.6	193.4	13,600	134
135	34.2	179.8	15,200	38.2	187.6	14,200	40.9	192.3	13,400	135
140	30.6	172.0	14,400	35.0	180.8	13,400	37.9	186.2	12,600	140
145	26.6	162.8	13,600	31.5	173.2	12,600	34.7	179.4	11,900	145
150	22.0	151.7	12,900	27.6	164.4	12,000	31.2	171.7	11,300	150
155	16.1	137.2	12,200	23.1	153.8	11,300	27.2	162.7	10,700	155
160	6.3	111.9	11,500	17.6	140.4	10,700	22.7	152.0	10,100	160
165				9.5	119.6	10,100	17.1	138.2	9,500	165
167				1.6	99.0	9,800	13.4	129.4	9,300	167
170							8.5	116.2	9,000	170
171							5.3	107.9	8,800	171
175										175
179										179
180										180
185										185
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190										190
193										193

MLC150-1 S-1

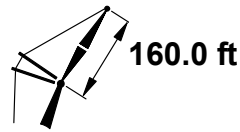
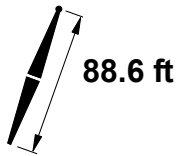
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50										50
55										55
60										60
65										65
66										66
70										70
75										75
78										78
80										80
85										85
90										90
95										95
98	62.7	225.5	19,700							98
100	61.8	224.4	19,100							100
105	59.6	221.6	17,800							105
110	57.4	218.6	16,600							110
115	55.1	215.2	15,600							115
116	54.4	214.5	15,400	58.0	216.9	13,900				116
120	52.7	211.6	14,600	56.2	214.3	13,200				120
125	50.3	207.6	13,700	53.8	210.8	12,300				125
130	47.8	203.3	12,900	51.4	207.0	11,600				130
134	45.4	199.5	12,300	48.6	203.7	11,000	52.9	206.2	9,800	134
135	45.1	198.5	12,100	49.0	202.8	10,900	52.5	205.5	9,600	135
140	42.4	193.3	11,400	46.4	198.3	10,200	50.0	201.5	9,000	140
145	39.4	187.5	10,800	43.7	193.3	9,600	47.5	197.1	8,500	145
150	36.3	181.1	10,100	40.8	187.8	9,000	44.8	192.3	7,900	150
155	33.0	173.9	9,600	37.8	181.7	8,500	42.0	187.0	7,500	155
160	29.3	165.6	9,000	34.6	174.8	8,000	39.1	181.1	7,000	160
165	25.1	155.8	8,500	31.1	167.1	7,500	36.0	174.6	6,600	165
167	23.0	151.0	8,300	29.4	163.5	7,400	33.8	171.7	6,400	167
170	20.1	143.8	8,000	27.1	158.1	7,100	32.6	167.3	6,200	170
171	18.6	140.5	7,900	26.0	155.9	7,000	31.2	165.6	6,100	171
175	13.5	127.3	7,600	22.6	147.3	6,700	28.8	158.9	5,800	175
179	2.7	99.2	7,100	17.2	136.1	6,300	24.8	150.9	5,400	179
180				16.9	133.4	6,200	24.6	148.9	5,400	180
185				8.1	110.8	5,800	19.5	136.6	5,000	185
186				4.7	101.9	5,700	17.6	133.1	4,900	186
190							12.5	119.1	4,600	190
193							5.0	99.7	4,300	193

MLC150-1 S-1

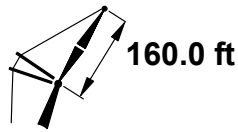
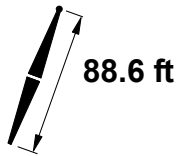
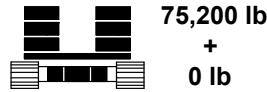
ASME B30.5



	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
53	74.7	249.9	38,300 b							53
55	74.0	249.4	38,100 b							55
60	72.1	247.9	37,500							60
65	70.2	246.2	36,500							65
70	68.3	244.3	35,000	70.7	245.9	35,500				70
75	66.4	242.2	33,600	68.8	244.0	32,400				75
80	64.4	239.9	31,600	66.8	242.0	29,700				80
82	63.2	238.9	30,600	65.2	241.1	28,700	67.8	242.3	27,300	82
85	62.4	237.4	29,100	64.9	239.7	27,300	66.7	241.0	26,000	85
90	60.4	234.7	26,900	62.9	237.3	25,200	64.7	238.7	24,000	90
95	58.3	231.7	24,900	60.9	234.6	23,400	62.7	236.3	22,200	95
100	56.2	228.5	23,200	58.8	231.7	21,700	60.7	233.6	20,600	100
102	54.8	227.1	22,600	57.2	230.4	21,200	59.2	232.4	20,100	102
105	54.0	225.0	21,700	56.7	228.6	20,300	58.6	230.7	19,200	105
110	51.7	221.2	20,300	54.5	225.1	19,000	56.5	227.5	18,000	110
115	49.4	217.1	19,000	52.3	221.4	17,800	54.3	224.0	16,800	115
120	47.0	212.6	17,900	50.0	217.4	16,700	52.1	220.3	15,800	120
122	45.8	210.7	17,500	48.2	215.6	16,300	50.8	218.7	15,400	122
125	44.5	207.7	16,800	47.6	213.0	15,700	49.8	216.2	14,800	125
130	41.9	202.4	15,900	45.1	208.2	14,800	47.4	211.8	13,900	130
135	39.1	196.6	15,000	42.5	203.0	13,900	44.9	207.0	13,100	135
140	36.2	190.1	14,100	39.8	197.3	13,100	42.3	201.7	12,400	140
145	33.1	182.9	13,400	36.9	191.0	12,400	39.6	196.0	11,700	145
150	29.6	174.6	12,600	33.8	183.9	11,700	36.7	189.6	11,000	150
155	25.8	165.1	12,000	30.4	176.0	11,100	33.5	182.5	10,400	155
160	21.3	153.6	11,300	26.7	166.8	10,500	30.1	174.4	9,800	160
165	15.6	138.6	10,700	22.4	155.8	9,900	26.4	165.1	9,300	165
170	6.1	112.5	10,100	17.1	141.9	9,400	22.0	154.0	8,800	170
175				9.2	120.5	8,800	16.6	139.7	8,300	175
177				1.5	99.1	8,600	12.8	130.6	8,100	177
180							8.2	116.9	7,800	180
181							5.1	108.4	7,700	181
185										185
189										189
190										190
195										195
196										196
200										200
203										203

MLC150-1 S-1

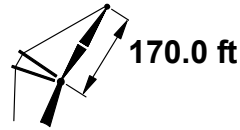
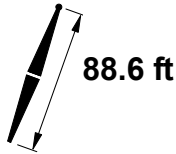
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
53										53
55										55
60										60
65										65
70										70
75										75
80										80
82										82
85										85
90										90
95										95
100										100
102	62.9	234.7	18,300							102
105	61.7	233.1	17,500							105
110	59.7	230.3	16,300							110
115	57.6	227.2	15,300							115
120	55.4	223.9	14,300							120
122	54.2	222.5	13,900	57.7	224.9	12,500				122
125	53.2	220.3	13,400	56.4	223.0	12,000				125
130	50.9	216.4	12,600	54.2	219.5	11,200				130
135	48.6	212.2	11,800	52.0	215.8	10,500				135
140	46.2	207.6	11,100	49.7	211.7	9,900	52.9	214.2	8,700	140
145	43.6	202.6	10,500	47.3	207.3	9,300	50.7	210.3	8,100	145
150	41.0	197.1	9,800	44.8	202.5	8,700	48.3	206.0	7,600	150
155	38.1	191.0	9,300	42.2	197.2	8,200	45.9	201.4	7,100	155
160	35.1	184.3	8,700	39.5	191.4	7,700	43.3	196.3	6,700	160
165	31.9	176.8	8,200	36.6	185.0	7,200	40.6	190.7	6,200	165
170	28.3	168.1	7,800	33.4	177.9	6,800	37.8	184.6	5,800	170
175	24.3	158.0	7,300	30.0	169.8	6,400	34.8	177.8	5,300	175
177	22.0	153.0	7,100	28.4	166.1	6,200	32.8	174.7	5,200	177
180	19.5	145.6	6,900	26.2	160.5	6,000	31.5	170.2	4,900	180
181	17.8	142.2	6,800	25.0	158.2	5,900	30.2	168.4	4,800	181
185	13.1	128.5	6,500	21.9	149.2	5,600	27.9	161.4	4,500	185
189	2.6	99.4	6,100	17.0	137.7	5,300	23.8	153.1	4,200	189
190				16.4	134.8	5,200	23.8	151.1	4,200	190
195				7.8	111.5	4,800	18.9	138.2	3,800	195
196				4.5	102.3	4,700	16.8	134.6	3,700	196
200							12.1	120.2	3,400	200
203							4.9	100.1	3,200	203

MLC150-1 S-1

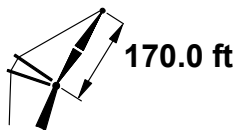
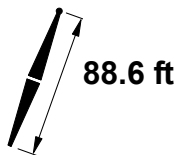
ASME B30.5



ft	87°			83°			80°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55	75.0	259.8	33,500							55
60	73.2	258.3	33,000							60
65	71.4	256.7	32,400							65
70	69.7	255.0	31,800							70
73	67.8	253.8	31,300	70.8	255.4	31,200				73
75	67.9	253.0	30,900	70.1	254.7	31,100				75
80	66.0	250.9	29,500	68.3	252.8	29,400				80
85	64.2	248.6	28,200	66.4	250.7	27,000				85
86	63.6	248.1	27,900	65.6	250.3	26,600	67.8	251.4	25,300	86
90	62.3	246.1	26,700	64.6	248.4	25,000	66.3	249.7	23,700	90
95	60.4	243.3	24,700	62.7	246.0	23,100	64.4	247.4	22,000	95
100	58.4	240.4	23,000	60.8	243.3	21,500	62.6	244.9	20,400	100
105	56.4	237.2	21,500	58.9	240.4	20,000	60.6	242.2	19,000	105
107	55.2	235.8	20,900	57.2	239.1	19,500	59.2	241.1	18,500	107
110	54.3	233.7	20,100	56.9	237.2	18,700	58.7	239.3	17,700	110
115	52.2	230.0	18,800	54.8	233.8	17,500	56.7	236.2	16,600	115
120	50.1	226.0	17,700	52.7	230.2	16,400	54.7	232.7	15,500	120
125	47.8	221.6	16,600	50.6	226.2	15,400	52.6	229.1	14,600	125
127	46.2	219.7	16,200	49.2	224.5	15,100	51.2	227.5	14,200	127
130	45.5	216.9	15,600	48.4	221.9	14,500	50.4	225.1	13,700	130
135	43.1	211.8	14,800	46.1	217.3	13,700	48.2	220.8	12,900	135
140	40.6	206.2	13,900	43.7	212.3	12,900	45.9	216.1	12,100	140
145	37.9	200.1	13,200	41.2	206.8	12,200	43.5	211.1	11,400	145
146	36.6	198.7	13,000	40.4	205.6	12,000	42.4	209.9	11,300	146
150	35.1	193.3	12,500	38.6	200.8	11,500	41.0	205.5	10,800	150
155	32.0	185.8	11,800	35.8	194.2	10,900	38.3	199.5	10,200	155
160	28.7	177.2	11,200	32.8	186.9	10,300	35.5	192.9	9,600	160
165	25.0	167.4	10,600	29.5	178.6	9,700	32.5	185.5	9,100	165
170	20.6	155.5	10,000	25.9	169.1	9,200	29.2	177.1	8,600	170
175	15.1	140.0	9,500	21.7	157.8	8,700	25.6	167.4	8,100	175
180	5.9	113.0	8,900	16.6	143.4	8,200	21.3	155.9	7,600	180
185				8.9	121.3	7,700	16.1	141.1	7,200	185
187				1.5	99.3	7,500	12.4	131.7	7,000	187
190							8.0	117.6	6,800	190
191							5.0	108.8	6,700	191
195										195
199										199
200										200
205										205
206										206

MLC150-1 S-1

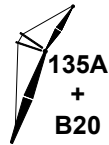
ASME B30.5



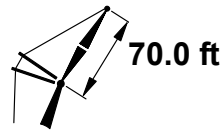
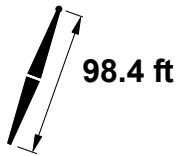
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
55										55
60										60
65										65
70										70
73										73
75										75
80										80
85										85
86										86
90										90
95										95
100										100
105										105
107	62.8	243.4	16,800							107
110	61.6	241.8	16,100							110
115	59.7	239.0	15,000							115
120	57.7	235.9	14,000							120
125	55.7	232.6	13,100							125
127	54.2	231.2	12,800	57.8	233.6	11,400				127
130	53.6	229.1	12,300	56.6	231.7	11,000				130
135	51.5	225.3	11,600	54.6	228.3	10,300				135
140	49.3	221.1	10,900	52.5	224.6	9,600				140
145	47.1	216.6	10,200	50.3	220.6	9,000				145
146	46.4	215.7	10,100	49.6	219.7	8,900	53.0	222.2	7,800	146
150	44.7	211.8	9,600	48.1	216.3	8,500	51.2	219.1	7,400	150
155	42.3	206.5	9,100	45.8	211.6	7,900	49.1	214.9	6,800	155
160	39.7	200.8	8,500	43.4	206.5	7,500	46.8	210.4	6,300	160
165	37.0	194.4	8,000	40.9	201.0	7,000	44.4	205.5	5,900	165
170	34.1	187.4	7,600	38.3	194.9	6,600	42.0	200.2	5,400	170
175	30.9	179.6	7,100	35.4	188.3	6,200	39.4	194.4	5,000	175
180	27.5	170.6	6,700	32.4	180.8	5,800	36.6	188.0	4,600	180
185	23.6	160.1	6,300	29.1	172.4	5,400	33.7	180.9	4,200	185
187	21.0	155.0	6,100	27.4	168.6	5,200	31.8	177.7	4,100	187
190	18.9	147.3	5,900	25.5	162.7	5,000	30.5	172.9	3,900	190
191	16.8	143.7	5,800	24.2	160.4	4,900	29.4	171.1	3,800	191
195	12.7	129.6	5,500	21.2	151.1	4,600	27.0	163.8	3,500	195
199	2.5	99.6	5,200	16.2	139.2	4,300	23.8	155.3	3,200	199
200				15.9	136.2	4,200	23.1	153.1	3,200	200
205				7.6	112.2	3,800				205
206				4.4	102.6	3,700				206

MLC150-1 S-1

ASME B30.5



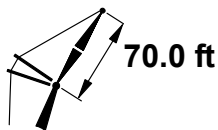
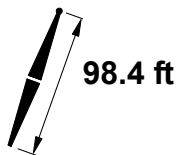
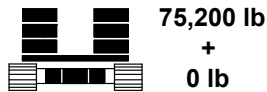
75,200 lb
+
0 lb



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
30	74.6	172.9	96,700 d							30
32	72.9	172.3	96,600 d							32
34	71.2	171.7	96,600 d							34
36	69.4	171.0	93,400 d							36
38	67.7	170.2	88,200 c							38
40	65.9	169.3	82,300 c							40
42	64.1	168.4	77,000 c	70.2	170.5	72,800 d				42
44	62.3	167.4	72,300 c	68.4	169.8	68,400 c				44
46	60.4	166.3	68,200 c	66.7	168.9	64,400 c				46
48	58.5	165.1	64,500 b	64.9	168.0	60,900 c				48
50	56.5	163.8	61,100 b	63.0	167.0	57,700 c	67.6	168.5	55,200 c	50
55	51.5	160.2	54,000 b	58.3	164.2	51,000 b	63.1	166.2	48,700 c	55
60	46.0	155.8	48,200 b	53.4	160.9	45,500 b	58.4	163.4	43,500 b	60
64	41.2	151.5	44,400 b	49.0	157.6	41,900 b	54.0	160.7	40,100 b	64
65	40.0	150.4	43,500	48.1	156.8	41,000 b	53.5	160.0	39,200 b	65
70	33.2	143.7	39,500	42.3	151.8	37,300	48.2	156.0	35,600 b	70
75	24.7	134.7	36,100	35.8	145.6	34,100	42.5	151.0	32,600	75
77	18.8	128.6	34,800	32.2	142.4	33,000	39.2	148.6	31,500	77
80	11.5	119.4	33,000	28.1	137.6	31,300	36.0	144.9	29,900	80
81	6.2	113.0	32,400	25.8	135.3	30,800	33.6	143.3	29,500	81
85				17.5	125.8	28,800	28.3	136.9	27,600	85
88				4.9	110.6	27,400	21.4	129.9	26,300	88
90							17.8	125.2	25,500	90
93							5.7	110.7	24,300	93
95										95
100										100
101										101
105										105
109										109
110										110
115										115
117										117

MLC150-1 S-1

ASME B30.5



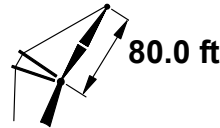
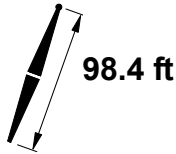
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
30										30
32										32
34										34
36										36
38										38
40										40
42										42
44										44
46										46
48										48
50										50
55										55
60										60
64	62.5	163.8	37,000 c							64
65	61.6	163.3	36,200 c							65
70	56.8	160.3	32,900 b							70
75	51.8	156.7	30,100 b							75
77	49.0	155.0	29,100 b	58.0	158.3	26,600 b				77
80	46.4	152.4	27,600 b	55.0	156.3	25,300 b				80
81	44.8	151.3	27,200 b	53.8	155.5	24,900 b				81
85	40.4	147.1	25,500	49.8	152.5	23,300 b				85
88	35.8	143.1	24,300	46.0	149.7	22,300 b				88
90	33.6	140.5	23,600	44.3	147.8	21,600 b	52.9	151.3	19,700 b	90
93	28.2	135.2	22,500	40.4	144.4	20,700 b	49.0	148.8	18,800 b	93
95	25.3	131.6	21,900	38.0	142.1	20,000	47.5	147.1	18,200 b	95
100	12.7	117.1	20,300	30.8	134.8	18,600	41.7	142.0	17,000	100
101	8.2	111.7	19,900	28.2	132.7	18,400	39.8	140.8	16,700	101
105				21.5	124.6	17,400	35.1	135.7	15,800	105
109				9.0	109.9	16,300	28.6	129.1	14,900	109
110							27.2	127.5	14,700	110
115							16.1	114.9	13,700	115
117							8.3	105.6	13,300	117

MLC150-1 S-1

ASME B30.5



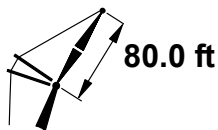
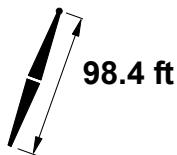
75,200 lb
+
0 lb



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
33	74.3	182.4	88,200 d							33
34	73.6	182.2	88,100 d							34
36	72.1	181.5	88,000 d							36
38	70.6	180.9	87,900 c							38
40	69.1	180.1	82,000 c							40
42	67.5	179.3	76,700 c							42
44	66.0	178.5	72,100 c							44
45	64.5	178.0	70,000 c	70.5	180.1	66,000 c				45
46	64.4	177.6	67,900 c	69.7	179.7	64,100 c				46
48	62.8	176.6	64,200 b	68.2	178.9	60,600 c				48
50	61.2	175.5	60,800 b	66.6	178.1	57,400 c				50
54	57.0	173.1	55,100 b	62.8	176.2	52,000 c	67.5	177.7	49,600 c	54
55	57.0	172.5	53,700 b	62.7	175.7	50,700 b	66.7	177.3	48,400 c	55
60	52.6	169.0	48,000 b	58.6	172.9	45,200 b	62.7	174.9	43,200 b	60
65	47.9	164.8	43,300	54.3	169.6	40,800 b	58.6	172.1	38,900 b	65
69	43.0	160.9	40,100	50.0	166.5	37,800 b	54.8	169.4	36,000 b	69
70	42.9	159.9	39,300	49.7	165.7	37,000	54.3	168.8	35,300 b	70
75	37.4	154.0	35,900	44.8	161.1	33,800	49.8	164.9	32,300	75
80	31.0	146.6	33,000	39.5	155.5	31,100	44.9	160.3	29,700	80
83	25.8	140.7	31,500	35.4	151.5	29,700	41.0	157.0	28,300	83
85	23.1	136.8	30,400	33.5	148.8	28,700	39.6	154.8	27,400	85
90	10.8	120.4	28,100	26.3	140.1	26,600	33.6	148.0	25,300	90
91	5.8	113.5	27,600	24.0	137.5	26,200	31.6	146.3	25,000	91
95				16.4	127.2	24,600	26.4	139.4	23,500	95
96				12.0	121.8	24,200	24.0	136.8	23,200	96
98				4.6	111.0	23,500	20.0	131.7	22,500	98
100							16.6	126.7	21,900	100
103							5.3	111.2	20,900	103
105										105
110										110
111										111
115										115
119										119
120										120
125										125
127										127

MLC150-1 S-1

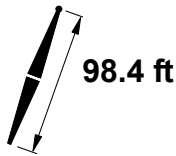
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft		
33									33	
34									34	
36									36	
38									38	
40									40	
42									42	
44									44	
45									45	
46									46	
48									48	
50									50	
54									54	
55									55	
60									60	
65									65	
69	62.2	172.5	33,100 b						69	
70	61.4	172.0	32,500 b						70	
75	57.2	169.0	29,700 b						75	
80	52.9	165.5	27,300 b						80	
83	49.6	163.0	26,000 b	57.4	166.3	23,700 b			83	
85	48.2	161.4	25,100	55.7	165.0	22,900 b			85	
90	43.2	156.5	23,300	51.2	161.3	21,200			90	
91	41.8	155.3	22,900	50.0	160.4	20,900			91	
95	37.7	150.7	21,600	46.4	156.9	19,700			95	
96	35.8	149.2	21,300	45.0	155.9	19,400	52.9	159.3	17,600 b	96
98	33.4	146.3	20,700	43.0	153.8	18,900	50.5	157.7	17,100 b	98
100	31.4	143.4	20,100	41.3	151.7	18,300	49.2	156.0	16,600	100
103	26.2	137.6	19,300	37.4	147.9	17,600	46.0	153.2	15,900	103
105	23.6	133.8	18,800	35.5	145.4	17,100	44.3	151.3	15,400	105
110	11.9	118.2	17,500	28.8	137.4	16,000	38.9	145.7	14,400	110
111	7.6	112.4	17,200	26.4	135.2	15,800	36.8	144.3	14,200	111
115				20.1	126.4	14,900	32.8	138.8	13,500	115
119				8.4	110.6	14,100	26.4	131.6	12,800	119
120							25.4	129.8	12,600	120
125							15.0	116.2	11,700	125
127							7.8	106.3	11,400	127

MLC150-1 S-1

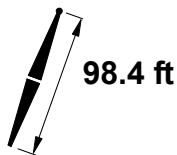
ASME B30.5



	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
35	74.8	192.3	80,200 d							35
36	74.1	192.0	80,200 d							36
38	72.8	191.4	80,000 c							38
40	71.5	190.8	79,900 c							40
42	70.1	190.1	76,500 c							42
44	68.8	189.3	71,900 c							44
46	67.4	188.5	67,700 c							46
48	66.0	187.6	64,000 b	70.7	189.6	60,400 c				48
50	64.6	186.7	60,700 b	69.4	188.9	57,200 c				50
55	61.0	184.2	53,500 b	65.9	186.8	50,400 b				55
58	58.6	182.4	50,100 b	63.2	185.4	47,200 b	67.4	186.8	44,900 c	58
60	57.3	181.2	47,800 b	62.4	184.4	45,000 b	66.0	186.0	42,900 b	60
65	53.5	177.7	43,100	58.7	181.6	40,600 b	62.4	183.6	38,700 b	65
70	49.4	173.7	39,100	54.9	178.3	36,800	58.8	180.7	35,100 b	70
73	46.6	171.0	37,100	51.6	176.0	34,900	55.6	178.8	33,300 b	73
75	45.0	169.1	35,800	50.9	174.5	33,700	55.0	177.5	32,100	75
80	40.4	163.7	32,900	46.7	170.1	30,900	51.0	173.7	29,500	80
85	35.2	157.2	30,400	42.1	165.0	28,600	46.8	169.3	27,200	85
88	31.4	152.5	29,000	39.0	161.4	27,300	43.6	166.3	26,000	88
90	29.2	149.3	28,200	37.1	159.0	26,500	42.2	164.3	25,200	90
95	21.8	138.8	26,200	31.5	151.7	24,600	37.2	158.2	23,400	95
100	10.2	121.3	24,300	24.7	142.3	22,900	31.6	150.9	21,800	100
101	5.5	114.0	23,900	22.2	139.6	22,600	29.6	149.1	21,500	101
102				20.4	136.8	22,300	28.2	147.2	21,200	102
105				15.5	128.6	21,400	24.9	141.6	20,400	105
108				4.3	111.4	20,400	18.6	133.5	19,600	108
110							15.7	128.1	19,000	110
113							5.0	111.7	18,200	113
115										115
120										120
121										121
125										125
129										129
130										130
135										135
137										137

MLC150-1 S-1

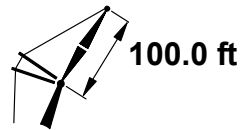
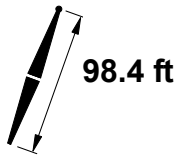
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft		
35									35	
36									36	
38									38	
40									40	
42									42	
44									44	
46									46	
48									48	
50									50	
55									55	
58									58	
60									60	
65									65	
70									70	
73	62.7	181.7	30,500 b						73	
75	61.3	180.6	29,400 b						75	
80	57.6	177.7	27,000 b						80	
85	53.7	174.3	24,900						85	
88	50.6	171.9	23,800	57.7	175.0	21,600 b			88	
90	49.6	170.3	23,100	56.1	173.7	21,000			90	
95	45.3	165.7	21,400	52.2	170.1	19,500			95	
100	40.6	160.3	20,000	48.1	165.9	18,100			100	
101	39.0	159.1	19,700	47.0	164.9	17,900			101	
102	38.0	157.8	19,400	46.0	164.0	17,600	52.9	167.3	15,900	102
105	35.5	154.0	18,600	43.6	161.1	16,900	50.5	164.9	15,200	105
108	31.4	149.2	17,900	40.0	157.6	16,200	47.6	162.2	14,600	108
110	29.6	146.1	17,400	38.8	155.3	15,800	46.2	160.5	14,200	110
113	24.8	139.9	16,800	35.0	151.2	15,200	43.0	157.3	13,700	113
115	22.3	135.8	16,300	33.4	148.5	14,800	41.6	155.3	13,300	115
120	11.2	119.2	15,200	27.1	139.9	13,900	36.6	149.1	12,400	120
121	7.2	113.0	15,000	25.2	137.5	13,700	34.8	147.6	12,300	121
125				18.9	128.1	13,000	30.9	141.6	11,700	125
129				7.9	111.4	12,300	24.4	133.9	11,100	129
130							23.9	132.0	10,900	130
135							14.2	117.5	10,200	135
137							7.3	107.0	9,900	137

MLC150-1 S-1

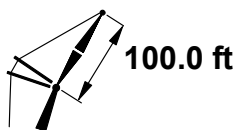
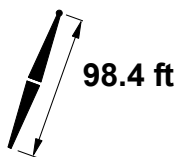
ASME B30.5



	87°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
38	74.6	201.8	73,500 c							38
40	73.4	201.2	73,400 c							40
42	72.2	200.6	73,200 c							42
44	71.0	200.0	71,600 c							44
46	69.8	199.2	67,500 c							46
48	68.5	198.5	63,800 b							48
50	67.3	197.7	60,400 b							50
51	66.4	197.2	59,000 b	70.9	199.1	55,400 c				51
55	64.2	195.4	53,300 b	68.4	197.7	50,100 b				55
60	60.9	192.8	47,500	65.3	195.5	44,700 b				60
61	59.4	192.2	46,600	64.4	195.0	43,800 b	67.9	196.4	41,700 b	61
65	57.6	189.8	42,800	62.1	193.1	40,300 b	65.4	194.7	38,300 b	65
70	54.1	186.5	38,900	58.8	190.2	36,500	62.2	192.2	34,800 b	70
75	50.5	182.6	35,500	55.4	187.0	33,400	58.9	189.4	31,700	75
78	47.6	179.9	33,800	52.6	184.8	31,700	56.2	187.5	30,200	78
80	46.7	178.2	32,700	51.9	183.3	30,600	55.5	186.2	29,100	80
85	42.6	173.1	30,200	48.1	179.1	28,300	51.9	182.5	26,900	85
90	38.2	167.2	27,900	44.2	174.3	26,200	48.2	178.3	24,900	90
93	35.0	163.1	26,800	41.0	171.0	25,100	45.6	175.4	23,800	93
95	33.3	160.3	26,000	39.9	168.8	24,400	44.2	173.5	23,100	95
100	27.6	151.8	24,200	35.2	162.3	22,700	40.0	168.0	21,500	100
105	20.6	140.6	22,600	29.8	154.4	21,200	35.3	161.5	20,100	105
108	13.4	129.5	21,700	25.4	148.4	20,400	31.4	156.8	19,300	108
110	9.6	122.1	21,100	23.4	144.4	19,800	29.9	153.7	18,800	110
111	5.2	114.4	20,800	21.2	141.5	19,600	27.8	151.7	18,600	111
115				14.7	130.0	18,600	23.6	143.8	17,600	115
118				4.1	111.8	17,800	17.6	135.2	17,000	118
120							14.9	129.4	16,500	120
123							4.8	112.1	15,800	123
125										125
130										130
131										131
135										135
139										139
140										140
145										145
147										147

MLC150-1 S-1

ASME B30.5



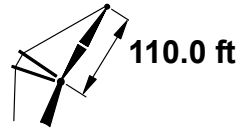
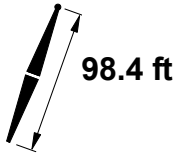
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
38										38
40										40
42										42
44										44
46										46
48										48
50										50
51										51
55										55
60										60
61										61
65										65
70										70
75										75
78	62.4	190.4	27,600 b							78
80	61.1	189.3	26,700							80
85	57.8	186.3	24,600							85
90	54.3	183.0	22,700							90
93	51.6	180.7	21,700	57.9	183.7	19,700				93
95	50.7	179.1	21,100	56.5	182.4	19,100				95
100	46.9	174.8	19,600	53.0	178.8	17,800				100
105	42.9	169.8	18,300	49.4	174.8	16,500				105
108	39.6	166.3	17,600	46.6	172.1	15,900	52.9	175.3	14,200	108
110	38.5	163.9	17,100	45.5	170.2	15,500	51.5	173.7	13,800	110
111	37.0	162.6	16,900	44.2	169.2	15,300	50.2	172.9	13,600	111
115	33.6	157.1	16,100	41.3	164.9	14,500	47.7	169.5	12,900	115
118	30.0	152.0	15,500	38.0	161.2	13,900	44.6	166.5	12,400	118
120	28.0	148.7	15,100	36.7	158.8	13,600	43.7	164.6	12,100	120
123	23.8	142.1	14,500	33.0	154.3	13,000	40.6	161.2	11,600	123
125	21.1	137.7	14,100	31.6	151.4	12,700	39.4	159.0	11,300	125
130	10.6	120.1	13,200	25.7	142.2	11,900	34.7	152.3	10,600	130
131	6.8	113.6	13,000	23.4	139.7	11,800	33.0	150.7	10,500	131
135				17.9	129.7	11,200	29.2	144.3	9,900	135
139				7.5	112.0	10,600	23.4	136.1	9,400	139
140							22.7	134.0	9,300	140
145							13.4	118.7	8,700	145
147							7.0	107.6	8,400	147

MLC150-1 S-1

ASME B30.5



75,200 lb
+
0 lb



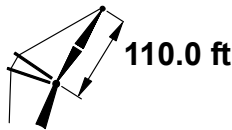
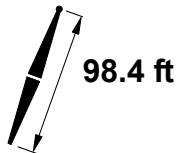
	87°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
40	74.9	211.6	67,700 c							40
42	73.9	211.1	67,500 c							42
44	72.8	210.5	67,300 c							44
46	71.7	209.8	67,200 b							46
48	70.6	209.2	63,600 b							48
50	69.5	208.4	60,300 b							50
55	66.7	206.4	53,100 b	70.5	208.3	50,000 b				55
60	63.8	204.1	47,400	67.7	206.4	44,600 b				60
65	60.8	201.5	42,700	64.9	204.2	40,200	67.8	205.6	38,200 b	65
70	57.8	198.5	38,800	61.9	201.7	36,400	64.9	203.4	34,700	70
75	54.7	195.2	35,500	59.0	198.9	33,300	62.0	200.9	31,700	75
80	51.4	191.4	32,600	55.9	195.7	30,600	59.0	198.1	29,100	80
82	49.8	189.7	31,600	53.8	194.3	29,600	57.4	196.8	28,200	82
85	48.0	187.2	30,100	52.6	192.1	28,200	55.9	194.9	26,800	85
90	44.4	182.4	27,900	49.3	188.0	26,100	52.7	191.3	24,800	90
95	40.5	176.9	26,000	45.8	183.5	24,300	49.4	187.2	23,100	95
99	36.8	171.9	24,600	42.6	179.3	23,000	45.8	183.6	21,800	99
100	36.4	170.6	24,200	42.0	178.3	22,700	45.8	182.7	21,500	100
105	31.7	163.2	22,700	38.0	172.3	21,200	42.1	177.5	20,100	105
110	26.3	154.2	21,200	33.5	165.3	19,900	38.0	171.5	18,800	110
114	20.4	144.8	20,200	29.0	158.7	18,900	34.0	166.0	17,900	114
115	19.7	142.4	19,900	28.4	157.0	18,600	33.6	164.6	17,700	115
120	9.2	123.0	18,700	22.3	146.5	17,500	28.5	156.3	16,600	120
121	4.9	114.9	18,400	20.2	143.4	17,300	26.8	154.2	16,400	121
125				14.0	131.2	16,500	22.5	145.8	15,600	125
128				3.9	112.2	15,800	17.2	136.7	15,000	128
130							14.2	130.7	14,700	130
133							4.6	112.5	14,100	133
135										135
140										140
141										141
145										145
149										149
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155										155
157										157

MLC150-1 S-1

ASME B30.5



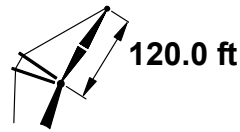
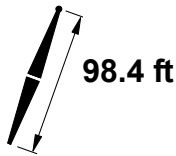
75,200 lb
+
0 lb



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
40										40
42										42
44										44
46										46
48										48
50										50
55										55
60										60
65										65
70										70
75										75
80										80
82	62.8	199.6	25,700							82
85	61.0	198.0	24,500							85
90	58.0	195.0	22,600							90
95	54.9	191.7	21,000							95
99	51.6	188.7	19,900	57.5	191.7	17,900				99
100	51.6	188.0	19,600	56.9	191.1	17,700				100
105	48.2	183.8	18,300	53.7	187.6	16,500				105
110	44.6	179.0	17,100	50.4	183.7	15,400				110
114	40.8	174.7	16,200	46.8	180.2	14,600	53.0	183.3	13,000	114
115	40.8	173.6	16,000	46.9	179.3	14,400	52.3	182.5	12,900	115
120	36.6	167.3	15,100	43.2	174.3	13,500	48.9	178.4	12,000	120
121	35.0	165.9	14,900	42.2	173.2	13,400	47.4	177.5	11,900	121
125	32.0	160.0	14,200	39.3	168.6	12,700	45.4	173.8	11,300	125
128	28.0	154.7	13,600	36.0	164.6	12,200	42.6	170.6	10,900	128
130	26.7	151.1	13,300	35.0	162.0	11,900	41.6	168.5	10,600	130
133	22.4	144.2	12,800	31.6	157.3	11,500	38.6	164.9	10,200	133
135	20.1	139.6	12,500	30.1	154.2	11,200	37.5	162.4	9,900	135
140	10.1	121.0	11,800	24.4	144.5	10,600	33.0	155.4	9,300	140
141	6.5	114.2	11,600	22.6	141.8	10,400	31.0	153.7	9,200	141
145				17.1	131.3	9,900	27.9	146.9	8,800	145
149				7.2	112.7	9,400	22.2	138.2	8,300	149
150							21.6	136.0	8,200	150
155							12.8	119.9	7,700	155
157							6.6	108.2	7,400	157

MLC150-1 S-1

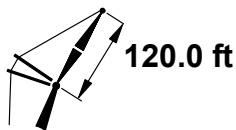
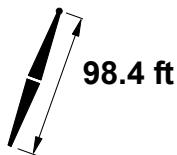
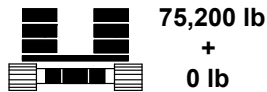
ASME B30.5



	87°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
43	74.7	221.2	61,900 c							43
44	74.2	220.9	61,800 c							44
46	73.3	220.3	61,500 b							46
48	72.3	219.7	61,400 b							48
50	71.2	219.0	60,000 b							50
55	68.7	217.2	52,900 b							55
58	66.8	216.0	49,500 b	70.7	217.9	46,300 b				58
60	66.1	215.1	47,200	69.6	217.2	44,300 b				60
65	63.5	212.8	42,500	67.1	215.2	39,800				65
69	60.6	210.7	39,300	64.6	213.4	36,900	67.6	214.8	35,000	69
70	60.8	210.1	38,500	64.5	212.9	36,100	67.1	214.3	34,300	70
75	58.0	207.2	35,200	61.8	210.4	33,000	64.5	212.1	31,300	75
80	55.1	203.9	32,300	59.0	207.6	30,300	61.8	209.6	28,700	80
85	52.2	200.2	29,800	56.2	204.4	27,900	59.1	206.7	26,500	85
87	50.8	198.6	29,000	54.8	203.0	27,100	57.8	205.5	25,700	87
90	49.1	196.1	27,700	53.3	200.9	25,900	56.3	203.6	24,500	90
95	45.9	191.5	25,700	50.2	196.9	24,000	53.3	200.0	22,800	95
100	42.4	186.4	24,000	47.1	192.5	22,400	50.3	196.1	21,200	100
104	38.8	181.7	22,700	43.8	188.6	21,200	47.6	192.6	20,100	104
105	38.8	180.5	22,400	43.7	187.6	20,900	47.1	191.7	19,800	105
110	34.8	173.8	21,000	40.1	182.0	19,600	43.8	186.8	18,500	110
115	30.3	166.0	19,700	36.3	175.7	18,400	40.2	181.2	17,400	115
120	25.2	156.5	18,600	32.0	168.3	17,300	36.4	174.9	16,300	120
125	18.8	144.1	17,500	27.2	159.5	16,300	32.1	167.6	15,400	125
130	8.8	123.7	16,400	21.4	148.4	15,300	27.3	158.8	14,500	130
131	4.7	115.3	16,200	19.4	145.2	15,200	25.8	156.6	14,300	131
135				13.4	132.4	14,400	21.5	147.8	13,600	135
138				3.7	112.5	13,900	16.2	138.3	13,200	138
140							13.6	131.9	12,800	140
143							4.4	112.9	12,300	143
145										145
150										150
151										151
155										155
159										159
160										160
165										165
167										167

MLC150-1 S-1

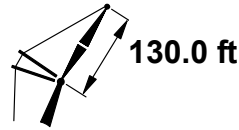
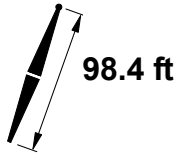
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
43										43
44										44
46										46
48										48
50										50
55										55
58										58
60										60
65										65
69										69
70										70
75										75
80										80
85										85
87	62.6	208.2	23,400							87
90	60.9	206.6	22,300							90
95	58.2	203.7	20,700							95
100	55.3	200.4	19,200							100
104	52.6	197.5	18,200	57.7	200.4	16,300				104
105	52.4	196.7	17,900	57.1	199.7	16,100				105
110	49.3	192.7	16,800	54.2	196.3	15,000				110
115	46.1	188.1	15,700	51.2	192.5	14,100				115
120	42.6	183.0	14,700	48.1	188.3	13,200	53.0	191.3	11,600	120
125	39.0	177.2	13,900	44.8	183.5	12,400	49.9	187.3	10,900	125
130	35.0	170.6	13,000	41.3	178.2	11,600	46.7	182.8	10,200	130
131	34.0	169.0	12,900	40.2	176.9	11,500	45.4	181.8	10,100	131
135	30.6	162.8	12,300	37.6	172.1	10,900	43.4	177.8	9,600	135
138	27.0	157.2	11,800	34.6	167.9	10,500	40.6	174.5	9,200	138
140	25.5	153.4	11,600	33.4	165.1	10,300	39.8	172.2	9,000	140
143	21.4	146.1	11,100	30.0	160.1	9,900	36.6	168.3	8,700	143
145	19.3	141.3	10,900	28.8	156.8	9,600	35.9	165.8	8,400	145
150	9.7	121.9	10,200	23.4	146.6	9,100	31.6	158.3	7,900	150
151	6.2	114.7	10,100	21.6	143.8	9,000	30.0	156.5	7,800	151
155				16.4	132.8	8,500	26.6	149.3	7,400	155
159				6.9	113.3	8,100	21.2	140.1	7,000	159
160							20.7	137.9	6,900	160
165							12.3	121.0	6,500	165
167							6.4	108.8	6,300	167

MLC150-1 S-1

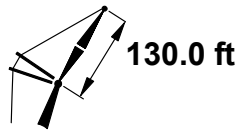
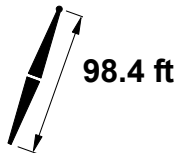
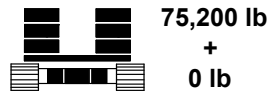
ASME B30.5



ft	87°			83°			80°			ft
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
46	74.6	230.7	47,700 b							46
48	73.7	230.2	47,400 b							48
50	72.7	229.6	47,000 b							50
55	70.4	227.9	46,200 b							55
60	68.1	226.0	45,300							60
61	67.4	225.6	44,700	70.8	227.4	43,100 b				61
65	65.7	223.9	42,300	68.9	226.0	39,600				65
70	63.2	221.5	38,300	66.5	223.9	35,900				70
73	61.2	219.9	36,300	64.8	222.5	34,000	67.6	223.9	32,200	73
75	60.7	218.8	35,000	64.1	221.6	32,800	66.6	223.1	31,100	75
80	58.2	215.8	32,100	61.6	219.1	30,000	64.2	220.8	28,500	80
85	55.5	212.6	29,600	59.1	216.2	27,700	61.7	218.2	26,200	85
90	52.8	209.0	27,500	56.5	213.1	25,600	59.2	215.4	24,300	90
91	51.4	208.2	27,100	55.4	212.4	25,300	58.4	214.8	23,900	91
95	50.0	205.0	25,500	53.8	209.6	23,800	56.6	212.3	22,500	95
100	47.0	200.6	23,800	51.0	205.7	22,200	53.9	208.8	21,000	100
105	44.0	195.6	22,300	48.1	201.5	20,700	51.1	204.9	19,600	105
109	40.6	191.2	21,100	45.6	197.7	19,700	48.6	201.5	18,600	109
110	40.7	190.1	20,900	45.1	196.8	19,400	48.2	200.7	18,300	110
115	37.2	184.0	19,600	41.9	191.5	18,200	45.2	196.0	17,200	115
120	33.4	176.9	18,400	38.5	185.6	17,100	42.0	190.7	16,100	120
125	29.1	168.6	17,400	34.8	178.9	16,100	38.6	184.8	15,200	125
126	28.0	166.6	17,200	33.2	177.3	15,900	37.2	183.5	15,000	126
130	24.2	158.7	16,400	30.7	171.1	15,200	34.9	178.1	14,300	130
135	18.1	145.7	15,400	26.1	161.8	14,300	30.8	170.4	13,500	135
140	8.4	124.5	14,500	20.5	150.2	13,500	26.2	161.2	12,700	140
141	4.5	115.7	14,300	18.4	146.9	13,400	24.8	158.8	12,600	141
145				12.9	133.6	12,700	20.6	149.6	12,000	145
148				3.6	112.8	12,300	15.8	139.7	11,600	148
150							13.0	133.1	11,300	150
153							4.2	113.3	10,900	153
155										155
160										160
161										161
165										165
169										169
170										170
175										175
177										177

MLC150-1 S-1

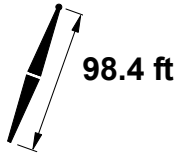
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
46										46
48										48
50										50
55										55
60										60
61										61
65										65
70										70
73										73
75										75
80										80
85										85
90										90
91	62.9	217.4	21,700							91
95	60.9	215.3	20,400							95
100	58.3	212.3	19,000							100
105	55.7	209.1	17,700							105
109	52.6	206.2	16,800	57.9	209.0	15,000				109
110	53.0	205.5	16,500	57.4	208.4	14,800				110
115	50.2	201.5	15,500	54.7	205.0	13,800				115
120	47.2	197.1	14,500	51.9	201.3	12,900				120
125	44.1	192.3	13,600	49.1	197.2	12,100				125
126	43.2	191.2	13,500	48.4	196.3	12,000	53.0	199.3	10,500	126
130	40.9	186.8	12,800	46.1	192.6	11,400	50.7	196.1	10,000	130
135	37.4	180.7	12,100	43.0	187.5	10,700	47.8	191.8	9,300	135
140	33.6	173.6	11,400	39.6	181.8	10,000	44.8	187.1	8,700	140
141	32.2	172.0	11,200	38.4	180.6	9,900	43.4	186.0	8,600	141
145	29.4	165.5	10,700	36.0	175.4	9,400	41.6	181.7	8,200	145
148	26.0	159.6	10,300	33.6	171.0	9,100	39.2	178.1	7,900	148
150	24.5	155.6	10,100	32.1	168.0	8,900	38.1	175.7	7,700	150
153	20.4	148.0	9,700	29.0	162.8	8,600	35.6	171.6	7,400	153
155	18.5	142.9	9,500	27.7	159.3	8,400	34.4	168.9	7,200	155
160	9.3	122.7	8,900	22.5	148.6	7,900	30.3	161.0	6,800	160
161	6.0	115.3	8,800	20.6	145.7	7,800	29.0	159.1	6,700	161
165				15.7	134.2	7,400	25.6	151.6	6,300	165
169				6.6	113.9	7,000	20.2	142.0	6,000	169
170							19.9	139.7	5,900	170
175							11.8	122.0	5,500	175
177							6.1	109.3	5,300	177

MLC150-1 S-1

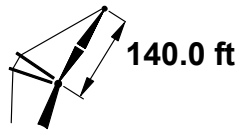
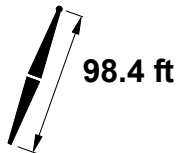
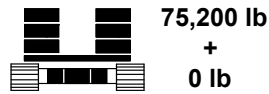
ASME B30.5



ft	87°			83°			80°			ft
	ft	lb	ft	ft	lb	ft	lb	ft		
48	74.9	240.5	44,400 b							48
50	74.0	240.0	44,000 b							50
55	71.9	238.5	43,300 b							55
60	69.7	236.7	42,600							60
64	67.4	235.1	42,000	70.9	237.0	40,100				64
65	67.5	234.8	41,800	70.5	236.6	39,300				65
70	65.3	232.6	38,100	68.3	234.7	35,600				70
75	63.0	230.1	34,700	66.1	232.6	32,500				75
76	61.6	229.6	34,200	65.4	232.2	31,900	67.9	233.5	30,200	76
80	60.7	227.5	31,900	63.8	230.3	29,800	66.1	231.8	28,200	80
85	58.3	224.5	29,400	61.5	227.7	27,400	63.9	229.5	25,900	85
90	55.9	221.3	27,200	59.2	224.9	25,300	61.6	226.9	24,000	90
95	53.3	217.7	25,300	56.8	221.8	23,500	59.2	224.1	22,200	95
96	52.4	216.9	24,900	55.6	221.1	23,200	58.4	223.4	21,900	96
100	50.7	213.8	23,500	54.3	218.3	21,900	56.8	220.9	20,700	100
105	48.1	209.5	22,000	51.7	214.5	20,400	54.3	217.5	19,300	105
110	45.2	204.8	20,600	49.1	210.4	19,100	51.8	213.7	18,000	110
115	42.3	199.6	19,300	46.3	205.9	17,900	49.1	209.6	16,900	115
120	39.1	193.8	18,200	43.4	200.8	16,800	46.3	205.1	15,800	120
125	35.8	187.3	17,100	40.3	195.2	15,800	43.4	200.0	14,900	125
130	32.1	179.8	16,100	37.0	189.0	14,900	40.4	194.5	14,000	130
132	30.4	176.4	15,800	35.4	186.2	14,600	38.8	192.0	13,700	132
135	28.0	171.2	15,200	33.5	181.9	14,100	37.1	188.2	13,200	135
140	23.3	160.8	14,400	29.6	173.8	13,300	33.6	181.2	12,400	140
145	17.4	147.3	13,600	25.1	164.1	12,500	29.7	173.1	11,700	145
150	8.1	125.2	12,800	19.8	152.0	11,800	25.2	163.4	11,100	150
151	4.4	116.1	12,600	17.6	148.6	11,700	23.8	161.0	11,000	151
155				12.4	134.7	11,200	19.9	151.4	10,500	155
158				3.5	113.1	10,700	14.8	141.1	10,100	158
160							12.6	134.2	9,900	160
163							4.0	113.6	9,500	163
165										165
170										170
171										171
175										175
179										179
180										180
185										185
187										187

MLC150-1 S-1

ASME B30.5



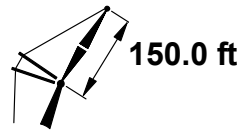
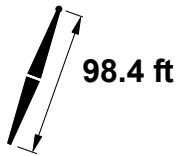
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
48										48
50										50
55										55
60										60
64										64
65										65
70										70
75										75
76										76
80										80
85										85
90										90
95										95
96	62.7	226.1	19,800							96
100	60.8	223.9	18,600							100
105	58.4	221.0	17,400							105
110	56.0	217.8	16,200							110
115	53.5	214.3	15,100	57.5	217.1	13,400				115
120	50.9	210.4	14,200	55.1	213.7	12,600				120
125	48.2	206.1	13,300	52.5	210.1	11,800				125
130	45.4	201.4	12,500	49.9	206.1	11,000				130
132	43.8	199.3	12,200	48.2	204.3	10,700	53.0	207.3	9,300	132
135	42.5	196.2	11,800	47.2	201.7	10,300	51.4	205.0	9,000	135
140	39.3	190.5	11,100	44.3	196.8	9,700	48.8	200.8	8,400	140
145	36.0	184.0	10,400	41.3	191.4	9,100	46.0	196.2	7,800	145
150	32.3	176.6	9,800	38.1	185.4	8,600	43.1	191.1	7,300	150
151	31.2	174.9	9,700	37.2	184.0	8,500	42.2	190.0	7,200	151
155	28.3	168.1	9,300	34.7	178.6	8,000	40.0	185.4	6,900	155
158	25.0	161.9	8,900	31.6	173.9	7,800	37.2	181.6	6,600	158
160	23.6	157.8	8,700	30.9	170.8	7,600	36.7	179.1	6,400	160
163	19.4	149.8	8,400	27.6	165.4	7,300	34.2	174.8	6,100	163
165	17.8	144.5	8,200	26.6	161.7	7,100	33.1	172.0	5,900	165
170	9.0	123.5	7,700	21.6	150.6	6,700	29.2	163.7	5,500	170
171	5.8	115.8	7,600	19.8	147.5	6,600	28.0	161.7	5,400	171
175				15.1	135.5	6,200	24.6	153.8	5,100	175
179				6.4	114.4	5,900	20.0	143.9	4,700	179
180							19.1	141.4	4,700	180
185							11.4	123.0	4,200	185
187							5.9	109.8	4,100	187

MLC150-1 S-1

ASME B30.5



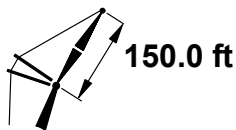
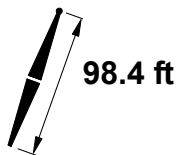
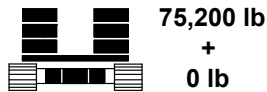
75,200 lb
+
0 lb



	87°			83°			80°			
51	74.7	250.1	41,100 b							51
55	73.1	248.9	40,600 b							55
60	71.1	247.3	39,900							60
65	69.1	245.5	39,200							65
68	67.8	244.3	38,500	70.6	246.2	36,900				68
70	67.0	243.5	37,900	69.8	245.5	35,500				70
75	64.9	241.3	34,600	67.8	243.5	32,300				75
80	62.8	238.8	31,700	65.7	241.4	29,600	67.8	242.7	28,000	80
85	60.6	236.1	29,300	63.6	239.0	27,300	65.7	240.5	25,800	85
90	58.4	233.2	27,100	61.4	236.4	25,200	63.6	238.2	23,800	90
95	56.1	230.0	25,200	59.2	233.5	23,400	61.5	235.6	22,100	95
100	53.8	226.5	23,400	57.0	230.4	21,800	59.3	232.7	20,500	100
105	51.4	222.6	21,900	54.7	227.0	20,300	57.0	229.6	19,200	105
110	48.9	218.5	20,500	52.3	223.3	19,000	54.7	226.2	17,900	110
115	46.3	213.9	19,200	49.8	219.3	17,800	52.3	222.5	16,800	115
120	43.6	208.9	18,100	47.3	214.9	16,700	49.9	218.5	15,700	120
125	40.8	203.4	17,000	44.6	210.0	15,800	47.3	214.1	14,800	125
130	37.8	197.3	16,100	41.8	204.7	14,800	44.7	209.3	13,900	130
135	34.5	190.4	15,200	38.9	198.8	14,000	41.9	203.9	13,100	135
139	30.8	184.2	14,500	35.6	193.6	13,400	38.6	199.2	12,500	139
140	31.0	182.6	14,300	35.7	192.3	13,200	39.0	198.1	12,400	140
145	27.1	173.6	13,600	32.3	184.9	12,500	35.8	191.5	11,700	145
150	22.5	162.8	12,800	28.6	176.4	11,800	32.4	184.1	11,000	150
155	16.8	148.8	12,200	24.3	166.3	11,200	28.6	175.7	10,400	155
160	7.9	125.9	11,500	19.1	153.7	10,600	24.4	165.6	9,800	160
161	4.2	116.5	11,300	17.4	150.1	10,400	23.0	163.1	9,700	161
165				12.0	135.7	10,000	19.2	153.1	9,300	165
168				3.4	113.4	9,600	14.8	142.4	9,000	168
170							12.1	135.3	8,800	170
173							3.9	114.0	8,400	173
175										175
180										180
181										181
185										185
189										189
190										190
195										195
197										197

MLC150-1 S-1

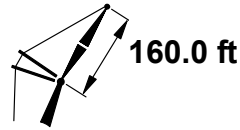
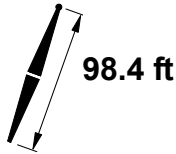
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
51										51
55										55
60										60
65										65
68										68
70										70
75										75
80										80
85										85
90										90
95										95
100	62.9	235.3	18,500							100
105	60.8	232.6	17,200							105
110	58.5	229.7	16,100							110
115	56.3	226.5	15,000							115
120	53.9	223.0	14,100	57.7	225.7	12,500				120
125	51.5	219.2	13,200	55.4	222.4	11,700				125
130	49.1	215.0	12,400	53.1	218.8	10,900				130
135	46.5	210.5	11,700	50.6	214.9	10,200				135
139	43.6	206.5	11,100	48.4	211.5	9,700	52.5	214.5	8,400	139
140	43.8	205.5	11,000	48.1	210.6	9,600	52.0	213.7	8,300	140
145	41.0	200.0	10,300	45.5	205.9	9,000	49.6	209.7	7,700	145
150	37.9	194.0	9,700	42.8	200.8	8,500	47.0	205.2	7,200	150
155	34.7	187.2	9,200	39.9	195.1	8,000	44.4	200.3	6,700	155
160	31.2	179.5	8,700	36.8	188.8	7,500	41.6	195.0	6,200	160
161	30.2	177.7	8,600	35.4	187.3	7,400	40.4	193.8	6,200	161
165	27.3	170.5	8,200	33.5	181.7	7,000	38.6	189.0	5,800	165
168	24.0	164.1	7,900	30.6	176.8	6,800	36.2	185.0	5,500	168
170	22.8	159.8	7,700	29.8	173.5	6,600	35.4	182.4	5,400	170
173	19.0	151.6	7,400	26.6	167.8	6,400	32.6	177.9	5,100	173
175	17.2	146.1	7,200	25.7	164.0	6,200	32.0	174.9	5,000	175
180	8.7	124.3	6,800	20.9	152.4	5,800	28.2	166.2	4,600	180
181	5.6	116.3	6,700	18.8	149.3	5,700	27.0	164.2	4,500	181
185				14.6	136.8	5,400	23.8	156.0	4,200	185
189				6.1	115.0	5,100	19.0	145.6	3,900	189
190							18.5	143.0	3,800	190
195							11.0	124.0	3,500	195
197							5.7	110.3	3,300	197

MLC150-1 S-1

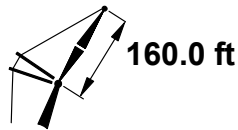
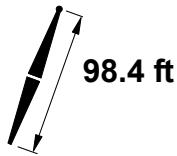
ASME B30.5



	87°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
53	74.9	259.9	37,100 b							53
55	74.2	259.4	36,900 b							55
60	72.3	257.9	36,400							60
65	70.4	256.2	35,900							65
70	68.5	254.3	34,900							70
71	67.6	253.9	34,600	70.8	255.7	34,500				71
75	66.6	252.2	33,400	69.2	254.3	32,000				75
80	64.6	250.0	31,500	67.3	252.3	29,300				80
84	62.4	248.0	29,500	65.4	250.5	27,500	67.7	251.8	25,900	84
85	62.6	247.5	29,000	65.4	250.1	27,000	67.3	251.4	25,500	85
90	60.6	244.8	26,800	63.4	247.7	24,900	65.4	249.2	23,500	90
95	58.5	241.8	24,900	61.3	245.1	23,100	63.4	246.8	21,800	95
100	56.4	238.7	23,200	59.3	242.2	21,500	61.4	244.2	20,200	100
105	54.2	235.2	21,600	57.2	239.1	20,000	59.3	241.4	18,900	105
110	52.0	231.4	20,300	55.0	235.7	18,700	57.2	238.3	17,600	110
115	49.7	227.4	19,000	52.8	232.1	17,500	55.1	234.9	16,500	115
120	47.3	222.9	17,800	50.5	228.1	16,500	52.8	231.3	15,400	120
125	44.8	218.1	16,800	48.2	223.8	15,500	50.6	227.3	14,500	125
130	42.2	212.8	15,800	45.7	219.2	14,600	48.2	223.0	13,600	130
135	39.4	207.0	14,900	43.1	214.1	13,700	45.8	218.4	12,800	135
140	36.5	200.6	14,100	40.5	208.5	13,000	43.2	213.3	12,100	140
145	33.4	193.5	13,300	37.6	202.3	12,200	40.5	207.7	11,400	145
150	30.0	185.4	12,600	34.6	195.5	11,600	37.7	201.6	10,800	150
155	26.2	176.0	11,900	31.3	187.7	10,900	34.6	194.7	10,200	155
160	21.8	164.7	11,300	27.6	178.9	10,300	31.3	187.0	9,600	160
165	16.3	150.2	10,700	23.5	168.4	9,800	27.7	178.2	9,100	165
170	7.6	126.6	10,100	18.5	155.4	9,200	23.6	167.8	8,600	170
171				16.6	151.7	9,100	22.0	165.2	8,500	171
175	4.1	116.8	10,000	11.6	136.8	8,700	18.6	154.8	8,100	175
178				3.2	113.7	8,400	13.8	143.7	7,800	178
180							11.7	136.3	7,600	180
183							3.8	114.3	7,300	183
185										185
190										190
191										191
195										195
199										199

MLC150-1 S-1

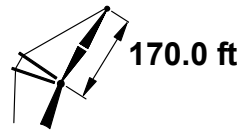
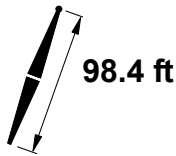
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
53										53
55										55
60										60
65										65
70										70
71										71
75										75
80										80
84										84
85										85
90										90
95										95
100										100
105	62.7	244.0	16,900							105
110	60.7	241.3	15,700							110
115	58.6	238.3	14,700							115
120	56.5	235.2	13,800							120
125	54.3	231.7	12,900	57.9	234.4	11,300				125
130	52.1	228.0	12,100	55.7	231.1	10,600				130
135	49.8	223.9	11,300	53.5	227.6	9,900				135
140	47.4	219.5	10,700	51.3	223.7	9,300				140
145	44.9	214.7	10,000	48.9	219.6	8,700	52.6	222.5	7,300	145
150	42.3	209.5	9,400	46.5	215.0	8,100	50.3	218.5	6,700	150
155	39.6	203.7	8,900	44.0	210.0	7,600	47.9	214.2	6,200	155
160	36.7	197.3	8,400	41.3	204.6	7,200	45.4	209.5	5,700	160
165	33.6	190.2	7,900	38.5	198.6	6,700	42.9	204.3	5,300	165
170	30.2	182.2	7,400	35.6	192.0	6,300	40.2	198.7	4,900	170
171	29.2	180.3	7,300	34.4	190.5	6,200	39.4	197.4	4,800	171
175	26.4	172.9	7,000	32.4	184.6	5,900	37.3	192.4	4,500	175
178	23.6	166.2	6,700	29.6	179.5	5,600	35.2	188.3	4,300	178
180	22.1	161.8	6,600	28.9	176.2	5,400	34.2	185.5	4,100	180
183	18.4	153.3	6,300	25.6	170.2	5,200	31.6	180.8	3,900	183
185	16.7	147.6	6,200	24.9	166.3	5,000	30.9	177.7	3,700	185
190	8.4	125.0	5,700	20.2	154.2	4,700	27.2	168.7	3,400	190
191	5.4	116.8	5,700	18.8	151.0	4,600	26.2	166.6	3,300	191
195				14.2	138.1	4,300	23.0	158.0	3,100	195
199				5.9	115.5	3,900				199

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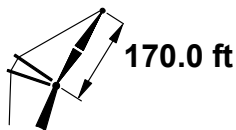
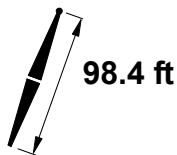
ASME B30.5



ft	87°			83°			80°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
56	74.8	269.5	32,500							56
60	73.4	268.3	32,100							60
65	71.6	266.7	31,600							65
70	69.8	265.0	31,000							70
74	68.2	263.5	30,800	70.9	265.3	30,300				74
75	68.0	263.1	30,800	70.5	264.9	30,200				75
80	66.2	261.0	29,500	68.7	263.1	29,100				80
85	64.4	258.7	28,200	66.9	261.0	26,700				85
88	62.8	257.2	27,200	65.4	259.7	25,500	67.7	261.0	24,000	88
90	62.5	256.2	26,600	65.0	258.8	24,700	66.9	260.2	23,300	90
95	60.6	253.4	24,700	63.2	256.4	22,900	65.1	257.9	21,500	95
100	58.6	250.5	23,000	61.3	253.7	21,300	63.2	255.5	20,000	100
105	56.6	247.3	21,400	59.3	250.9	19,800	61.3	252.9	18,600	105
109	54.4	244.6	20,300	57.4	248.4	18,800	59.4	250.6	17,600	109
110	54.6	243.9	20,000	57.3	247.8	18,500	59.4	250.0	17,400	110
115	52.5	240.2	18,800	55.3	244.4	17,300	57.4	247.0	16,200	115
120	50.3	236.2	17,600	53.2	240.9	16,200	55.4	243.6	15,200	120
125	48.1	231.9	16,600	51.1	237.0	15,300	53.3	240.0	14,300	125
130	45.8	227.2	15,600	48.9	232.8	14,300	51.1	236.2	13,400	130
135	43.4	222.1	14,700	46.6	228.2	13,500	49.0	232.0	12,600	135
140	40.9	216.6	13,900	44.3	223.3	12,700	46.7	227.4	11,900	140
145	38.2	210.6	13,100	41.8	218.0	12,000	44.3	222.5	11,200	145
150	35.4	203.9	12,400	39.2	212.1	11,300	41.8	217.2	10,500	150
151	34.4	202.4	12,300	38.4	210.8	11,200	40.6	216.0	10,400	151
155	32.4	196.4	11,800	36.5	205.7	10,700	39.3	211.3	9,900	155
160	29.1	188.0	11,100	33.5	198.5	10,100	36.5	204.9	9,400	160
165	25.4	178.3	10,500	30.3	190.5	9,600	33.6	197.8	8,900	165
170	21.1	166.6	10,000	26.8	181.3	9,100	30.4	189.8	8,400	170
175	15.8	151.7	9,500	22.8	170.5	8,600	26.9	180.6	7,900	175
180	7.4	127.3	8,900	17.9	157.0	8,100	22.9	169.8	7,400	180
181	4.0	117.2	8,800	15.8	153.1	8,000	21.2	167.1	7,400	181
185				11.2	137.8	7,600	18.0	156.4	7,000	185
188				3.1	114.0	7,300	13.8	145.0	6,800	188
190							11.4	137.3	6,600	190
193							3.7	114.6	6,300	193
195										195
200										200
201										201
205										205
209										209

MLC150-1 S-1

ASME B30.5



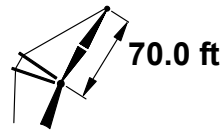
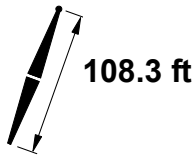
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
56										56
60										60
65										65
70										70
74										74
75										75
80										80
85										85
88										88
90										90
95										95
100										100
105										105
109	63.0	253.1	15,700							109
110	62.6	252.6	15,500							110
115	60.7	249.9	14,400							115
120	58.7	247.0	13,500							120
125	56.7	243.8	12,600							125
130	54.7	240.4	11,800	58.0	243.1	10,300				130
135	52.6	236.7	11,100	56.0	239.8	9,600				135
140	50.4	232.8	10,400	53.9	236.3	9,000				140
145	48.2	228.5	9,800	51.8	232.5	8,400				145
150	45.9	223.8	9,200	49.6	228.4	7,900				150
151	44.6	222.8	9,100	48.6	227.6	7,800	52.6	230.5	6,200	151
155	43.5	218.8	8,700	47.4	224.0	7,400	50.9	227.4	5,800	155
160	41.0	213.3	8,100	45.0	219.2	6,900	48.7	223.1	5,400	160
165	38.4	207.2	7,700	42.6	214.0	6,400	46.4	218.6	4,900	165
170	35.6	200.6	7,200	40.1	208.3	6,000	44.0	213.6	4,500	170
175	32.6	193.2	6,800	37.4	202.1	5,500	41.5	208.2	4,100	175
180	29.3	184.8	6,400	34.5	195.2	5,100	38.9	202.3	3,800	180
181	28.2	182.9	6,300	33.4	193.6	5,000	37.6	201.0	3,700	181
185	25.6	175.2	6,000	31.4	187.5	4,700	36.2	195.8	3,400	185
188	22.6	168.3	5,800	28.6	182.2	4,500	34.2	191.4	3,200	188
190	21.4	163.7	5,600	28.0	178.7	4,400	33.2	188.5	3,100	190
193	18.0	154.9	5,400	25.2	172.5	4,100				193
195	16.2	149.0	5,200	24.1	168.5	4,000				195
200	8.1	125.8	4,800	19.6	156.0	3,600				200
201	5.2	117.2	4,700	17.8	152.7	3,600				201
205				13.7	139.3	3,300				205
209				5.8	116.0	3,000				209

MLC150-1 S-1

ASME B30.5



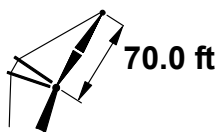
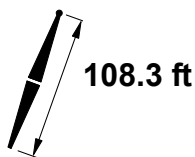
75,200 lb
+
0 lb



	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
31	74.2	182.6	92,600 d							31
32	73.3	182.3	92,600 d							32
34	71.6	181.7	92,500 d							34
36	69.9	181.0	91,000 d							36
38	68.1	180.2	86,600 c							38
40	66.4	179.4	81,900 c							40
42	64.6	178.5	76,700 c							42
43	63.0	178.0	74,400 c	70.4	180.3	69,800 d				43
44	62.7	177.5	72,100 c	69.5	180.0	67,700 d				44
46	60.9	176.4	67,900 c	67.7	179.2	63,800 c				46
48	59.0	175.2	64,200 b	65.9	178.3	60,300 c				48
50	57.1	174.0	60,900 b	64.1	177.4	57,100 c				50
52	55.0	172.6	58,000 b	62.0	176.3	54,400 c	67.4	178.1	51,600 c	52
55	52.0	170.4	53,700 b	59.5	174.7	50,400 b	64.7	176.7	47,900 c	55
60	46.6	166.1	48,000 b	54.6	171.5	45,000 b	60.1	174.1	42,800 c	60
65	40.7	160.9	43,300	49.4	167.6	40,600 b	55.2	171.0	38,600 b	65
67	37.2	158.3	41,700	46.6	165.7	39,100 b	53.0	169.4	37,200 b	67
70	33.9	154.3	39,300	43.8	162.9	36,900	50.1	167.1	35,000 b	70
75	25.7	145.6	35,900	37.5	157.0	33,700	44.5	162.5	32,000 b	75
80	13.5	131.5	32,900	30.1	149.6	31,000	38.3	156.8	29,400	80
81	9.3	126.6	32,300	28.0	147.4	30,500	36.6	155.4	29,000	81
85				20.6	139.0	28,500	31.1	149.6	27,100	85
89				6.5	122.4	26,700	23.0	141.6	25,500	89
90							21.9	139.6	25,100	90
95							2.3	116.3	23,100	95
100										100
104										104
105										105
110										110
113										113
115										115
120										120
121										121

MLC150-1 S-1

ASME B30.5



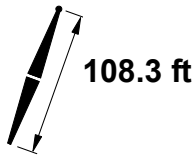
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
31										31
32										32
34										34
36										36
38										38
40										40
42										42
43										43
44										44
46										46
48										48
50										50
52										52
55										55
60										60
65										65
67	62.1	173.1	33,900 c							67
70	59.3	171.4	32,000 b							70
75	54.4	168.2	29,200 b							75
80	49.2	164.2	26,800 b							80
81	47.8	163.3	26,400 b	57.3	167.1	23,900 b				81
85	43.5	159.5	24,800	53.4	164.4	22,400 b				85
89	38.2	154.7	23,300	49.0	161.1	21,000 b				89
90	37.2	153.6	22,900	48.1	160.3	20,700 b				90
95	29.8	146.0	21,300	42.3	155.3	19,200	52.0	159.5	17,200 b	95
100	20.1	135.3	19,800	35.8	149.1	17,900	46.6	155.2	16,000 b	100
104	4.9	117.2	18,500	29.4	142.7	16,900	41.2	151.0	15,100 b	104
105				28.1	141.1	16,700	40.7	150.0	14,900	105
110				17.5	129.2	15,500	33.9	143.4	13,900	110
113				4.6	113.8	14,800	28.2	138.2	13,300	113
115							25.7	134.7	13,000	115
120							13.4	120.6	12,000	120
121							9.2	115.6	11,800	121

MLC150-1 S-1

ASME B30.5



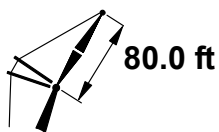
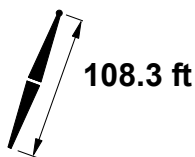
75,200 lb
+
0 lb



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
33	74.7	192.4	84,700 d							33
34	74.0	192.1	84,600 d							34
36	72.5	191.5	84,500 d							36
38	71.0	190.9	84,300 c							38
40	69.5	190.2	81,700 c							40
42	67.9	189.4	76,500 c							42
44	66.4	188.5	71,800 c							44
46	64.8	187.6	67,700 c	70.6	189.9	63,400 c				46
48	63.2	186.6	64,000 b	69.1	189.2	59,900 c				48
50	61.6	185.6	60,600 b	67.6	188.4	56,800 c				50
55	57.4	182.7	53,500 b	63.6	186.1	50,100 b				55
56	56.2	182.0	52,400 b	62.2	185.6	49,000 b	67.2	187.2	46,500 c	56
60	53.1	179.2	47,800 b	59.6	183.4	44,700 b	64.1	185.4	42,400 c	60
65	48.4	175.1	43,100	55.3	180.2	40,300 b	60.1	182.8	38,200 b	65
70	43.5	170.3	39,100	50.8	176.4	36,600	55.8	179.7	34,700 b	70
71	41.8	169.1	38,500	49.2	175.5	36,000	54.2	178.9	34,100 b	71
75	38.0	164.5	35,800	46.0	172.0	33,500	51.4	176.0	31,700	75
80	31.7	157.3	32,900	40.8	166.7	30,700	46.6	171.6	29,100	80
85	24.0	147.8	30,300	35.0	160.3	28,400	41.5	166.5	26,900	85
86	21.6	144.8	29,900	32.8	158.7	27,900	39.8	165.2	26,500	86
90	12.6	132.7	28,000	28.1	152.2	26,300	35.7	160.2	24,900	90
91	8.7	127.4	27,600	26.2	149.9	25,900	33.8	158.6	24,500	91
95				19.2	140.8	24,400	29.0	152.3	23,100	95
99				6.1	123.0	22,900	21.8	143.6	21,800	99
100							20.5	141.5	21,500	100
101							16.4	136.5	21,200	101
105							2.2	116.5	19,900	105
110										110
114										114
115										115
120										120
123										123
125										125
130										130
131										131

MLC150-1 S-1

ASME B30.5



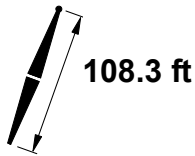
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft		
33									33	
34									34	
36									36	
38									38	
40									40	
42									42	
44									44	
46									46	
48									48	
50									50	
55									55	
56									56	
60									60	
65									65	
70									70	
71	62.7	182.3	31,000 b						71	
75	59.4	180.1	28,800 b						75	
80	55.1	176.9	26,500 b						80	
85	50.6	173.1	24,400						85	
86	49.0	172.2	24,000	57.7	175.8	21,600 b			86	
90	45.8	168.6	22,600	54.2	173.1	20,300 b			90	
91	44.0	167.5	22,300	53.0	172.3	20,000 b			91	
95	40.6	163.3	21,000	49.7	169.2	18,800			95	
99	35.2	158.1	19,800	45.0	165.5	17,800			99	
100	34.7	156.8	19,500	44.8	164.6	17,500			100	
101	32.6	155.2	19,300	43.0	163.5	17,300	52.1	167.6	15,400	101
105	27.8	148.6	18,200	39.5	159.0	16,300	48.4	164.2	14,500	105
110	18.8	137.0	17,000	33.4	152.3	15,300	43.4	159.4	13,500	110
114	4.6	117.6	16,000	27.4	145.3	14,500	38.2	154.7	12,800	114
115				26.2	143.5	14,300	37.9	153.6	12,600	115
120				16.3	130.7	13,300	31.7	146.4	11,800	120
123				4.3	114.2	12,700	26.2	140.7	11,300	123
125							24.0	136.9	11,000	125
130							12.5	121.7	10,300	130
131							8.6	116.3	10,100	131

MLC150-1 S-1

ASME B30.5



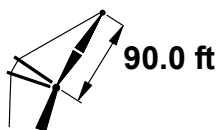
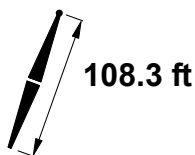
75,200 lb
+
0 lb



	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
36	74.5	202.0	77,200 d							36
38	73.2	201.4	77,100 c							38
40	71.8	200.8	76,900 c							40
42	70.5	200.1	76,200 c							42
44	69.1	199.3	71,600 c							44
46	67.8	198.5	67,500 c							46
48	66.4	197.7	63,800 b							48
49	65.0	197.2	62,100 b	70.8	199.4	58,100 c				49
50	65.0	196.8	60,400 b	70.2	199.1	56,500 c				50
55	61.4	194.3	53,300 b	66.7	197.1	49,900 b				55
59	57.8	191.9	48,700 b	63.6	195.2	45,600 b	67.8	196.8	43,100 c	59
60	57.7	191.3	47,600 b	63.2	194.8	44,500 b	67.2	196.4	42,200 c	60
65	53.9	187.9	42,900	59.6	192.1	40,100 b	63.7	194.1	38,000 b	65
70	49.8	184.0	39,000	55.8	188.9	36,400	60.0	191.4	34,500 b	70
75	45.5	179.4	35,600	51.9	185.2	33,300	56.3	188.3	31,500	75
76	44.0	178.4	35,100	50.2	184.4	32,700	55.2	187.6	31,000	76
80	40.9	174.1	32,800	47.7	181.0	30,600	52.4	184.8	28,900	80
85	35.7	167.8	30,300	43.3	176.1	28,200	48.2	180.6	26,700	85
90	29.8	160.0	28,000	38.4	170.3	26,200	43.8	175.8	24,700	90
91	27.6	158.0	27,600	36.8	168.9	25,800	42.2	174.6	24,400	91
95	22.6	149.9	26,100	32.9	163.3	24,300	39.0	170.1	23,000	95
100	11.9	133.8	24,200	26.5	154.6	22,700	33.6	163.3	21,400	100
101	8.2	128.1	23,900	24.4	152.1	22,300	31.8	161.6	21,100	101
105				18.1	142.4	21,100	27.3	154.8	20,000	105
107				11.5	132.9	20,500	23.8	150.2	19,500	107
109				5.8	123.5	19,900	20.6	145.5	19,000	109
110							19.3	143.2	18,700	110
115							2.0	116.7	17,400	115
120										120
124										124
125										125
130										130
133										133
135										135
140										140
141										141

MLC150-1 S-1

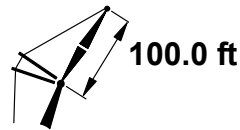
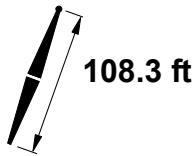
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
36										36
38										38
40										40
42										42
44										44
46										46
48										48
49										49
50										50
55										55
59										59
60										60
65										65
70										70
75										75
76										76
80	62.4	191.0	28,100 b							80
85	59.5	188.7	26,200 b							85
85	55.7	185.6	24,200							85
90	51.7	181.9	22,400							90
91	50.2	181.0	22,100	57.9	184.5	19,800 b				91
95	47.6	177.6	20,800	54.9	181.8	18,600				95
100	43.1	172.7	19,400	50.9	178.0	17,300				100
101	42.0	171.5	19,100	49.2	177.2	17,100				101
105	38.2	166.9	18,100	46.7	173.7	16,100				105
107	35.6	164.1	17,600	44.4	171.6	15,700	52.3	175.6	13,900	107
109	33.2	161.2	17,100	42.8	169.6	15,300	50.0	173.9	13,500	109
110	32.7	159.8	16,900	42.1	168.5	15,100	49.8	173.1	13,300	110
115	26.2	151.0	15,800	37.1	162.5	14,100	45.5	168.6	12,400	115
120	17.7	138.6	14,800	31.5	155.2	13,200	40.8	163.2	11,600	120
124	4.3	118.0	14,000	25.4	147.7	12,500	36.0	158.2	11,000	124
125				24.7	145.8	12,400	35.7	156.9	10,900	125
130				15.4	132.1	11,600	29.8	149.1	10,200	130
133				4.1	114.6	11,100	24.8	143.0	9,800	133
135							22.6	138.9	9,500	135
140							11.8	122.8	8,900	140
141							8.1	117.1	8,700	141

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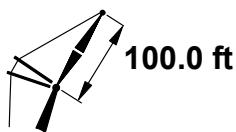
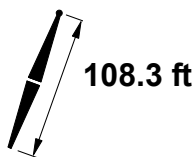
ASME B30.5



	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
38	74.9	211.8	70,900 c							38
40	73.7	211.2	70,800 c							40
42	72.5	210.6	70,600 c							42
44	71.3	210.0	70,400 c							44
46	70.1	209.3	67,200 c							46
48	68.9	208.5	63,500 b							48
50	67.6	207.7	60,100 b							50
53	65.2	206.4	55,900 b	70.4	208.6	52,000 c				53
55	64.5	205.5	53,100 b	69.2	207.9	49,500 b				55
60	61.3	202.9	47,300	66.1	205.8	44,200 b				60
63	58.6	201.2	44,500	63.6	204.4	41,500 b	67.7	206.0	39,200 b	63
65	57.9	200.0	42,700	62.9	203.5	39,800 b	66.5	205.1	37,700 b	65
70	54.5	196.7	38,700	59.6	200.7	36,100	63.3	202.8	34,100 b	70
75	50.9	192.8	35,400	56.3	197.6	33,000	60.0	200.1	31,200	75
80	47.1	188.5	32,500	52.7	194.0	30,300	56.7	197.0	28,600	80
85	43.1	183.5	30,000	49.1	190.0	27,900	53.2	193.5	26,400	85
90	38.7	177.7	27,800	45.1	185.3	25,900	49.5	189.5	24,400	90
95	33.8	170.9	25,900	40.9	179.9	24,100	45.6	184.9	22,700	95
97	31.0	167.6	25,200	38.4	177.4	23,400	43.4	182.8	22,100	97
100	28.3	162.6	24,100	36.4	173.7	22,400	41.5	179.7	21,100	100
105	21.5	151.8	22,500	31.2	166.2	20,900	36.9	173.5	19,700	105
110	11.3	134.8	21,000	25.1	156.9	19,600	31.9	166.2	18,500	110
111	7.8	128.8	20,700	23.4	154.3	19,400	29.8	164.4	18,200	111
113				20.2	149.1	18,900	27.4	160.8	17,800	113
115				17.2	143.9	18,400	25.9	157.2	17,300	115
119				5.5	124.0	17,400	19.4	147.3	16,400	119
120							18.3	144.9	16,200	120
125							1.9	116.8	15,100	125
130										130
134										134
135										135
140										140
143										143
145										145
150										150
151										151

MLC150-1 S-1

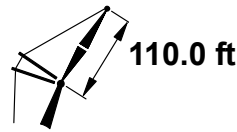
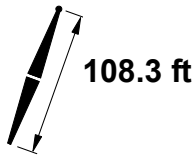
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
38										38
40										40
42										42
44										44
46										46
48										48
50										50
53										53
55										55
60										60
63										63
65										65
70										70
75										75
80	62.8	200.2	25,800 b							80
85	59.5	197.4	23,800							85
90	56.1	194.3	22,000							90
95	52.6	190.7	20,400							95
97	50.4	189.0	19,900	57.5	192.5	17,700				97
100	48.9	186.6	19,000	55.4	190.5	16,900				100
105	45.0	181.9	17,700	51.9	186.8	15,800				105
110	40.8	176.5	16,600	48.1	182.6	14,700				110
111	39.2	175.3	16,400	47.2	181.7	14,500				111
113	37.6	172.7	15,900	45.6	179.7	14,100	52.3	183.6	12,400	113
115	36.2	170.2	15,500	44.1	177.8	13,800	50.9	182.0	12,000	115
119	31.2	164.2	14,700	40.0	173.4	13,100	47.6	178.5	11,400	119
120	31.0	162.7	14,600	39.9	172.3	12,900	47.1	177.6	11,200	120
125	24.9	153.3	13,700	35.1	165.8	12,100	43.0	172.6	10,500	125
130	16.8	140.1	12,800	29.8	157.9	11,300	38.6	166.8	9,800	130
134	4.1	118.4	12,100	24.2	149.9	10,800	34.0	161.4	9,300	134
135				23.4	147.9	10,600	33.8	160.0	9,200	135
140				14.6	133.4	9,900	28.2	151.7	8,600	140
143				3.9	114.9	9,500	23.8	145.2	8,300	143
145							21.4	140.9	8,100	145
150							11.2	123.8	7,500	150
151							7.7	117.8	7,400	151

MLC150-1 S-1

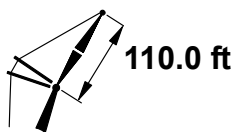
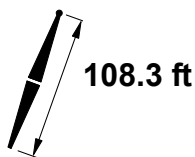
ASME B30.5



	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
41	74.7	221.3	65,300 c							41
42	74.1	221.1	65,200 c							42
44	73.1	220.5	65,000 c							44
46	72.0	219.8	64,800 c							46
48	70.9	219.2	63,400 b							48
50	69.8	218.4	60,000 b							50
55	67.0	216.5	52,900 b							55
56	65.6	216.0	51,800 b	70.6	218.2	48,300 b				56
60	64.1	214.2	47,200	68.4	216.7	44,100 b				60
65	61.2	211.6	42,600	65.5	214.6	39,700 b				65
67	59.8	210.4	41,000	63.8	213.6	38,200 b	67.6	215.2	36,100 b	67
70	58.1	208.7	38,600	62.7	212.1	36,000	65.9	213.9	34,000 b	70
75	55.0	205.4	35,300	59.7	209.4	32,900	63.0	211.5	31,100	75
80	51.8	201.6	32,500	56.6	206.3	30,200	60.0	208.8	28,500	80
85	48.4	197.5	30,000	53.4	202.8	27,900	57.0	205.7	26,300	85
90	44.8	192.7	27,800	50.1	198.8	25,800	53.8	202.3	24,400	90
95	41.0	187.3	25,800	46.6	194.4	24,000	50.5	198.4	22,600	95
100	36.8	181.1	24,100	42.9	189.3	22,400	47.1	194.0	21,100	100
102	34.4	178.2	23,500	40.4	187.0	21,800	45.4	192.0	20,500	102
105	32.2	173.9	22,600	39.0	183.6	20,900	43.4	189.0	19,700	105
110	26.9	165.1	21,100	34.6	176.9	19,600	39.5	183.4	18,500	110
115	20.4	153.7	19,800	29.7	168.9	18,400	35.2	176.8	17,300	115
119	12.0	139.3	18,900	24.2	161.0	17,500	31.0	170.6	16,500	119
120	10.7	135.7	18,600	23.9	159.0	17,300	30.3	169.0	16,300	120
121	7.4	129.5	18,400	21.6	156.3	17,100	28.8	167.1	16,100	121
125				16.4	145.4	16,300	24.7	159.4	15,300	125
129				5.2	124.4	15,400	18.4	149.0	14,600	129
130							17.4	146.4	14,400	130
135							1.8	117.0	13,500	135
140										140
144										144
145										145
150										150
153										153
155										155
160										160
161										161

MLC150-1 S-1

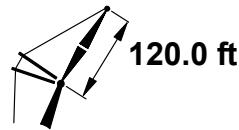
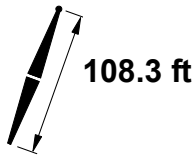
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft		
41									41	
42									42	
44									44	
46									46	
48									48	
50									50	
55									55	
56									56	
60									60	
65									65	
67									67	
70									70	
75									75	
80									80	
85	62.5	208.8	23,700						85	
90	59.6	206.1	21,900						90	
95	56.5	202.9	20,400						95	
100	53.3	199.4	18,900						100	
102	51.4	197.8	18,400	57.7	201.2	16,400			102	
105	50.0	195.5	17,700	55.8	199.2	15,700			105	
110	46.5	191.0	16,500	52.6	195.6	14,700			110	
115	42.8	185.9	15,500	49.3	191.6	13,700			115	
119	38.8	181.3	14,700	45.8	187.9	13,000	52.4	191.6	11,300	
120	38.8	180.1	14,500	45.7	187.0	12,800	51.8	190.8	11,200	
121	37.2	178.8	14,400	44.2	185.9	12,700	50.4	189.9	11,000	
125	34.4	173.4	13,700	42.0	181.8	12,100	48.4	186.6	10,500	
129	30.0	167.0	13,000	37.8	177.0	11,500	44.8	182.8	9,900	
130	29.5	165.4	12,900	37.9	175.8	11,300	44.8	181.9	9,800	
135	23.7	155.4	12,100	33.5	168.8	10,600	40.9	176.5	9,200	
140	16.0	141.5	11,400	28.4	160.5	10,000	36.8	170.3	8,600	
144	3.9	118.7	10,800	23.2	152.0	9,500	32.8	164.4	8,200	
145				22.3	149.9	9,400	32.2	163.0	8,100	
150				13.9	134.6	8,800	26.9	154.2	7,600	
153				3.7	115.2	8,400	22.4	147.3	7,300	
155							20.4	142.7	7,100	
160							10.7	124.7	6,600	
161							7.3	118.4	6,500	

MLC150-1 S-1

ASME B30.5



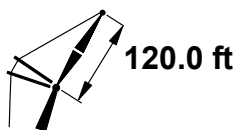
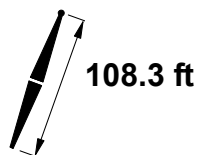
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
43	75.0	231.2	50,200 c							43
44	74.5	230.9	50,000 c							44
46	73.5	230.3	49,600 c							46
48	72.5	229.7	49,200 b							48
50	71.5	229.0	48,900 b							50
55	69.0	227.2	48,000 b							55
59	66.4	225.6	47,200 b	70.8	227.7	44,700 b				59
60	66.4	225.2	47,000	70.3	227.4	43,800 b				60
65	63.8	222.9	42,300	67.7	225.4	39,400 b				65
70	61.1	220.3	38,400	65.1	223.3	35,700				70
71	60.4	219.7	37,700	64.4	222.8	35,100	67.5	224.3	33,100	71
75	58.3	217.3	35,100	62.4	220.8	32,600	65.4	222.6	30,700	75
80	55.4	214.1	32,200	59.7	218.0	29,900	62.8	220.2	28,200	80
85	52.5	210.4	29,700	56.9	214.9	27,600	60.0	217.4	26,000	85
89	49.6	207.2	28,000	53.6	212.2	25,900	57.6	215.0	24,400	89
90	49.4	206.4	27,500	54.0	211.5	25,500	57.2	214.4	24,000	90
95	46.2	201.8	25,600	51.0	207.7	23,700	54.4	211.0	22,300	95
100	42.8	196.7	23,900	47.8	203.4	22,100	51.4	207.2	20,800	100
105	39.1	191.0	22,300	44.5	198.6	20,700	48.2	203.0	19,400	105
107	37.4	188.3	21,800	42.8	196.4	20,100	46.4	201.1	18,900	107
110	35.2	184.4	20,900	41.0	193.2	19,300	44.9	198.2	18,200	110
115	30.8	176.7	19,700	37.2	187.0	18,200	41.5	192.9	17,000	115
120	25.8	167.4	18,500	33.1	179.9	17,100	37.7	186.9	16,000	120
125	19.6	155.4	17,400	28.4	171.5	16,100	33.6	179.9	15,000	125
130	10.3	136.6	16,400	22.9	161.1	15,100	29.0	171.7	14,200	130
131	7.1	130.1	16,100	20.6	158.3	14,900	27.8	169.6	14,000	131
135				15.7	146.8	14,200	23.6	161.6	13,300	135
139				5.0	124.9	13,500	17.4	150.7	12,700	139
140							16.7	147.9	12,600	140
145							1.8	117.2	11,800	145
150										150
154										154
155										155
160										160
163										163
165										165
170										170
171										171

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ASME B30.5



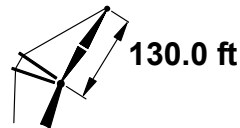
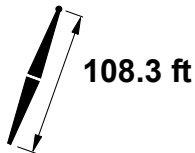
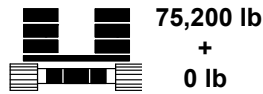
75,200 lb
+
0 lb



	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft		
43									43	
44									44	
46									46	
48									48	
50									50	
55									55	
59									59	
60									60	
65									65	
70									70	
71									71	
75									75	
80									80	
85									85	
89	62.9	218.0	21,900						89	
90	62.3	217.5	21,600						90	
95	59.6	214.7	20,000						95	
100	56.8	211.6	18,600						100	
105	53.9	208.2	17,300						105	
107	51.8	206.6	16,900	57.9	209.8	14,900			107	
110	50.9	204.3	16,200	56.2	207.9	14,300			110	
115	47.7	200.0	15,200	53.3	204.4	13,300			115	
120	44.4	195.2	14,200	50.2	200.4	12,500			120	
125	40.9	189.8	13,400	47.0	196.0	11,700	52.5	199.6	10,100	125
130	37.1	183.6	12,600	43.7	191.1	11,000	49.4	195.5	9,400	130
131	36.0	182.1	12,400	42.4	190.0	10,800	48.4	194.6	9,300	131
135	32.9	176.4	11,800	40.1	185.5	10,300	46.2	191.0	8,800	135
139	28.8	169.7	11,300	36.8	180.4	9,800	42.8	186.9	8,400	139
140	28.2	168.0	11,100	36.3	179.2	9,700	42.8	185.9	8,300	140
145	22.7	157.4	10,500	32.0	171.8	9,100	39.1	180.1	7,700	145
150	15.3	142.9	9,800	27.2	163.0	8,500	35.2	173.5	7,200	150
154	3.8	119.1	9,300	22.2	154.1	8,100	31.0	167.3	6,900	154
155				21.3	151.9	8,000	30.8	165.8	6,800	155
160				13.3	135.8	7,500	25.7	156.5	6,300	160
163				3.5	115.6	7,200	21.4	149.3	6,000	163
165							19.5	144.5	5,800	165
170							10.2	125.6	5,400	170
171							7.0	119.0	5,200	171

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ASME B30.5



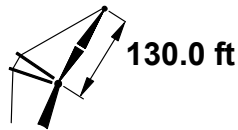
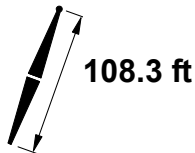
ft	87°			83°			80°			ft
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
46	74.8	240.7	46,700 c							46
48	73.9	240.1	46,400 b							48
50	73.0	239.5	46,100 b							50
55	70.7	237.9	45,200 b							55
60	68.3	236.0	44,400							60
62	66.8	235.2	43,500	70.9	237.3	41,700 b				62
65	65.9	233.9	42,100	69.5	236.2	39,100				65
70	63.5	231.6	38,200	67.1	234.2	35,500				70
74	60.6	229.4	35,500	64.6	232.4	33,000	67.9	233.9	31,000	74
75	61.0	228.9	34,800	64.7	232.0	32,300	67.4	233.5	30,500	75
80	58.4	226.0	32,000	62.2	229.5	29,700	65.0	231.3	27,900	80
85	55.8	222.8	29,500	59.7	226.7	27,300	62.5	228.8	25,700	85
90	53.1	219.2	27,300	57.1	223.6	25,300	60.0	226.1	23,800	90
94	50.6	216.0	25,800	54.6	220.9	23,900	57.6	223.7	22,400	94
95	50.3	215.2	25,400	54.5	220.2	23,500	57.5	223.1	22,100	95
100	47.4	210.9	23,700	51.7	216.5	21,900	54.8	219.7	20,500	100
105	44.3	206.0	22,100	48.9	212.3	20,400	52.1	216.0	19,200	105
110	41.0	200.6	20,800	45.9	207.7	19,100	49.2	211.9	17,900	110
113	38.6	196.9	20,000	43.2	204.6	18,400	47.2	209.2	17,300	113
115	37.5	194.5	19,500	42.7	202.6	18,000	46.2	207.3	16,800	115
120	33.8	187.5	18,300	39.3	196.8	16,900	43.1	202.3	15,800	120
125	29.6	179.4	17,300	35.7	190.3	15,900	39.8	196.6	14,800	125
130	24.7	169.6	16,300	31.8	182.8	15,000	36.2	190.2	14,000	130
131	22.8	167.1	16,100	30.2	181.1	14,800	35.2	188.7	13,800	131
135	18.8	157.1	15,400	27.3	174.0	14,100	32.3	182.8	13,200	135
140	9.9	137.5	14,500	22.0	163.1	13,300	27.9	174.2	12,400	140
141	6.8	130.7	14,300	19.8	160.1	13,200	26.0	172.1	12,300	141
145				15.0	148.2	12,600	22.7	163.6	11,700	145
149				4.8	125.3	11,900	17.2	152.2	11,200	149
150							16.0	149.4	11,100	150
155							1.7	117.3	10,300	155
160										160
164										164
165										165
170										170
173										173
175										175
180										180
181										181

MLC150-1 S-1

ASME B30.5



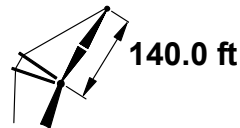
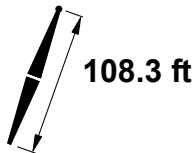
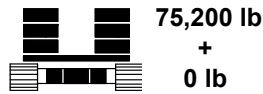
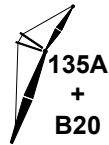
75,200 lb
+
0 lb



	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
46										46
48										48
50										50
55										55
60										60
62										62
65										65
70										70
74										74
75										75
80										80
85										85
90										90
94	62.6	226.7	20,000							94
95	62.1	226.2	19,700							95
100	59.6	223.4	18,300							100
105	57.0	220.3	17,100							105
110	54.4	216.9	16,000							110
113	52.2	214.6	15,300	57.5	217.9	13,400				113
115	51.6	213.1	14,900	56.5	216.6	13,100				115
120	48.7	208.9	14,000	53.8	213.1	12,200				120
125	45.7	204.3	13,100	51.0	209.3	11,400				125
130	42.6	199.2	12,300	48.1	205.0	10,700				130
131	41.4	198.0	12,200	47.4	204.0	10,600	52.5	207.6	9,000	131
135	39.2	193.4	11,600	45.1	200.3	10,100	50.3	204.4	8,600	135
140	35.6	186.9	10,900	41.9	195.0	9,500	47.3	200.0	8,000	140
141	34.2	185.3	10,800	40.4	193.8	9,300	46.4	199.0	7,900	141
145	31.6	179.3	10,300	38.5	189.1	8,900	44.3	195.1	7,500	145
149	27.8	172.2	9,800	34.8	183.7	8,500	41.6	190.8	7,100	149
150	27.1	170.4	9,700	34.8	182.4	8,300	41.0	189.7	7,000	150
155	21.8	159.4	9,100	30.7	174.6	7,800	37.5	183.6	6,500	155
160	14.7	144.2	8,600	26.1	165.3	7,400	33.7	176.6	6,000	160
164	3.6	119.4	8,100	21.2	156.0	7,000	29.8	170.1	5,600	164
165				20.5	153.7	6,900	29.5	168.5	5,600	165
170				12.8	137.0	6,400	24.7	158.7	5,100	170
173				3.4	115.9	6,100	20.4	151.2	4,900	173
175							18.8	146.2	4,700	175
180							9.8	126.5	4,300	180
181							6.7	119.6	4,200	181

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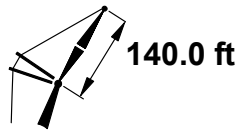
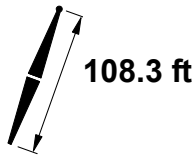
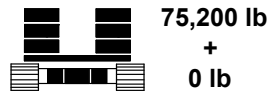
ASME B30.5



	87°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
49	74.6	250.2	43,300 b							49
50	74.2	250.0	43,200 b							50
55	72.1	248.5	42,500 b							55
60	69.9	246.7	41,700							60
65	67.7	244.8	41,000							65
66	66.6	244.4	40,400	70.6	246.5	38,000				66
70	65.5	242.6	37,900	68.8	245.0	35,200				70
75	63.2	240.2	34,600	66.6	242.9	32,000				75
78	61.2	238.6	32,900	64.8	241.6	30,400	67.8	243.1	28,600	78
80	60.9	237.6	31,700	64.4	240.7	29,400	66.9	242.2	27,600	80
85	58.5	234.7	29,200	62.1	238.1	27,000	64.7	240.0	25,400	85
90	56.1	231.5	27,100	59.7	235.4	25,000	62.4	237.5	23,500	90
95	53.6	227.9	25,100	57.3	232.3	23,200	60.0	234.7	21,800	95
98	51.8	225.6	24,100	55.2	230.3	22,200	58.2	232.9	20,800	98
100	51.0	224.1	23,400	54.9	228.9	21,600	57.6	231.7	20,200	100
105	48.3	219.8	21,900	52.3	225.3	20,200	55.2	228.4	18,900	105
110	45.5	215.1	20,500	49.7	221.2	18,900	52.7	224.8	17,600	110
115	42.6	210.0	19,200	47.0	216.8	17,700	50.0	220.8	16,500	115
118	40.2	206.5	18,500	44.8	213.8	17,000	48.2	218.1	15,900	118
120	39.5	204.2	18,100	44.1	211.8	16,600	47.3	216.4	15,500	120
125	36.1	197.8	17,000	41.1	206.4	15,600	44.5	211.5	14,500	125
130	32.5	190.5	16,100	37.9	200.3	14,700	41.4	206.1	13,700	130
135	28.5	182.0	15,200	34.4	193.5	13,900	38.3	200.1	12,900	135
137	26.0	177.9	14,800	32.4	190.3	13,600	36.4	197.4	12,600	137
140	23.8	171.8	14,300	30.6	185.6	13,100	34.8	193.4	12,200	140
145	18.1	158.7	13,500	26.3	176.4	12,400	31.1	185.7	11,500	145
150	9.5	138.4	12,800	21.2	165.0	11,700	26.8	176.6	10,800	150
151	6.6	131.3	12,600	19.6	161.9	11,500	25.0	174.4	10,700	151
155				14.5	149.5	11,000	21.9	165.6	10,200	155
159				4.6	125.7	10,500	16.2	153.7	9,700	159
160							15.5	150.8	9,600	160
165							1.6	117.4	9,000	165
170										170
174										174
175										175
180										180
183										183
185										185
190										190
191										191

MLC150-1 S-1

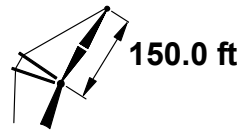
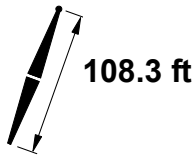
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	lb		
49										49
50										50
55										55
60										60
65										65
66										66
70										70
75										75
78										78
80										80
85										85
90										90
95										95
98	62.9	235.9	18,500							98
100	62.0	234.8	18,000							100
105	59.7	232.0	16,700							105
110	57.3	229.0	15,600							110
115	54.8	225.6	14,600							115
118	52.8	223.4	14,000	57.7	226.6	12,200				118
120	52.2	221.9	13,700	56.7	225.3	11,900				120
125	49.6	217.8	12,800	54.3	221.8	11,100				125
130	46.9	213.4	12,000	51.7	218.1	10,400				130
135	44.0	208.4	11,300	49.0	213.9	9,700				135
137	41.8	206.3	11,000	47.8	212.1	9,500	52.6	215.6	7,900	137
140	41.0	203.0	10,600	46.3	209.4	9,100	51.0	213.2	7,500	140
145	37.7	196.9	10,000	43.4	204.3	8,500	48.3	208.9	7,000	145
150	34.2	190.0	9,400	40.3	198.7	8,000	45.5	204.3	6,400	150
151	33.2	188.4	9,300	39.4	197.5	7,900	44.4	203.2	6,300	151
155	30.4	182.1	8,900	37.0	192.5	7,500	42.6	199.1	6,000	155
159	26.8	174.6	8,400	33.8	186.8	7,100	39.6	194.5	5,600	159
160	26.1	172.8	8,300	33.5	185.4	7,000	39.5	193.4	5,500	160
165	21.0	161.3	7,800	29.6	177.3	6,600	36.1	186.9	5,100	165
170	14.2	145.5	7,400	25.1	167.6	6,200	32.5	179.6	4,700	170
174	3.5	119.7	6,900	20.2	157.9	5,800	28.8	172.8	4,300	174
175				19.7	155.5	5,700	28.4	171.1	4,300	175
180				12.3	138.1	5,300	23.8	160.9	3,900	180
183				3.3	116.1	5,000	20.0	153.0	3,700	183
185							18.1	147.8	3,500	185
190							9.4	127.4	3,100	190
191							6.5	120.2	3,000	191

MLC150-1 S-1

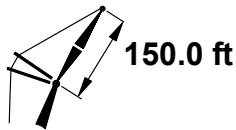
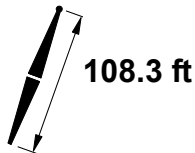
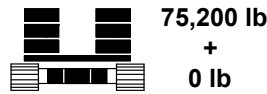
ASME B30.5



	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
51	74.9	260.1	40,300 b						51	
55	73.3	258.9	39,800 b						55	
60	71.3	257.3	39,100						60	
65	69.3	255.5	38,500						65	
69	67.4	253.9	37,600	70.7	256.0	35,700			69	
70	67.2	253.5	37,400	70.3	255.7	35,000			70	
75	65.1	251.3	34,500	68.3	253.8	31,900			75	
80	63.0	248.9	31,600	66.2	251.7	29,200			80	
82	61.8	247.8	30,600	65.2	250.7	28,300	67.7	252.2	26,600	82
85	60.8	246.2	29,100	64.1	249.4	26,900	66.5	251.0	25,300	85
90	58.6	243.3	27,000	62.0	246.8	24,900	64.3	248.7	23,300	90
95	56.4	240.1	25,000	59.8	244.0	23,100	62.2	246.2	21,600	95
100	54.0	236.7	23,300	57.5	241.0	21,500	60.0	243.4	20,100	100
103	52.2	234.4	22,400	55.8	239.0	20,600	58.2	241.6	19,300	103
105	51.7	232.9	21,800	55.2	237.6	20,000	57.8	240.4	18,700	105
110	49.2	228.7	20,400	52.9	234.0	18,700	55.5	237.1	17,500	110
115	46.6	224.2	19,100	50.4	230.1	17,600	53.2	233.5	16,400	115
120	43.9	219.3	18,000	47.9	225.7	16,500	50.7	229.6	15,400	120
123	41.8	216.0	17,400	45.8	222.9	15,900	48.8	227.0	14,800	123
125	41.1	213.8	17,000	45.3	221.0	15,500	48.2	225.3	14,500	125
130	38.1	207.8	16,000	42.5	215.8	14,600	45.6	220.6	13,600	130
135	34.9	201.0	15,100	39.6	210.1	13,800	42.9	215.5	12,800	135
140	31.4	193.3	14,300	36.5	203.7	13,000	40.0	209.8	12,100	140
143	28.6	188.0	13,800	34.2	199.4	12,600	37.2	206.1	11,700	143
145	27.5	184.5	13,500	33.2	196.5	12,300	36.9	203.5	11,400	145
150	23.0	173.9	12,800	29.5	188.3	11,600	33.6	196.5	10,800	150
155	17.5	160.3	12,100	25.4	178.7	11,000	30.0	188.4	10,200	155
160	9.2	139.2	11,400	20.5	166.8	10,400	25.9	179.0	9,600	160
161	6.4	131.9	11,300	18.8	163.6	10,300	24.2	176.7	9,500	161
165				14.0	150.7	9,800	21.1	167.5	9,100	165
169				4.5	126.1	9,300	15.4	155.2	8,600	169
170							14.9	152.1	8,500	170
175							1.6	117.6	8,000	175
180										180
184										184
185										185
190										190
193										193

MLC150-1 S-1

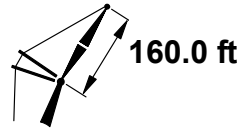
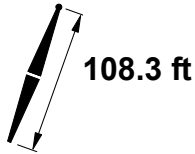
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
51										51
55										55
60										60
65										65
69										69
70										70
75										75
80										80
82										82
85										85
90										90
95										95
100										100
103	62.7	244.6	17,100							103
105	61.9	243.5	16,600							105
110	59.7	240.7	15,500							110
115	57.4	237.6	14,500							115
120	55.1	234.3	13,500							120
123	53.2	232.1	13,000	57.9	235.2	11,300				123
125	52.8	230.7	12,700	57.0	233.9	11,000				125
130	50.3	226.7	11,900	54.7	230.6	10,300				130
135	47.8	222.4	11,200	52.3	226.8	9,600				135
140	45.2	217.6	10,500	49.8	222.8	9,000				140
143	43.2	214.5	10,200	47.8	220.1	8,700	52.6	223.6	7,000	143
145	42.4	212.4	9,900	47.3	218.4	8,400	51.6	222.0	6,800	145
150	39.5	206.6	9,300	44.6	213.6	7,900	49.2	217.9	6,300	150
155	36.4	200.2	8,800	41.8	208.2	7,400	46.6	213.3	5,800	155
160	33.0	193.0	8,300	38.9	202.3	7,000	43.9	208.4	5,300	160
161	32.2	191.4	8,200	37.4	201.0	6,900	42.6	207.3	5,300	161
165	29.4	184.8	7,800	35.7	195.8	6,500	41.1	202.9	4,900	165
169	25.8	177.0	7,400	32.6	189.9	6,200	38.6	198.1	4,600	169
170	25.2	175.1	7,300	32.3	188.4	6,100	38.1	196.9	4,500	170
175	20.2	163.1	6,900	28.5	179.9	5,600	34.9	190.1	4,100	175
180	13.7	146.7	6,500	24.2	169.8	5,200	31.4	182.4	3,800	180
184	3.4	120.0	6,100	20.0	159.7	4,900	27.8	175.3	3,500	184
185				19.1	157.2	4,800	27.5	173.6	3,400	185
190				11.9	139.1	4,400	23.0	162.9	3,100	190
193				3.1	116.4	4,200				193

MLC150-1 S-1

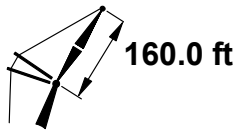
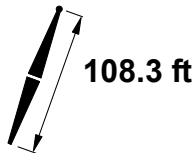
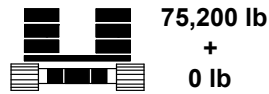
ASME B30.5



	87°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
54	74.8	269.6	35,800 b							54
55	74.4	269.3	35,700 b							55
60	72.5	267.9	35,400							60
65	70.6	266.2	34,800							65
70	68.7	264.3	34,200							70
72	67.2	263.5	33,800	70.8	265.6	33,400				72
75	66.8	262.3	33,200	69.7	264.5	31,600				75
80	64.8	260.0	31,300	67.8	262.5	28,900				80
85	62.8	257.6	28,900	65.8	260.4	26,600	68.0	261.8	25,000	85
90	60.8	254.9	26,700	63.8	258.0	24,600	66.1	259.7	23,000	90
95	58.7	252.0	24,800	61.8	255.5	22,800	64.1	257.4	21,300	95
100	56.6	248.8	23,100	59.8	252.7	21,200	62.1	254.8	19,800	100
105	54.4	245.4	21,500	57.7	249.6	19,800	60.0	252.1	18,400	105
107	53.2	243.9	21,000	56.2	248.3	19,200	58.8	250.9	17,900	107
110	52.2	241.7	20,100	55.5	246.3	18,500	57.9	249.1	17,200	110
115	49.9	237.6	18,900	53.3	242.8	17,300	55.8	245.8	16,100	115
120	47.5	233.2	17,700	51.1	238.9	16,200	53.6	242.3	15,100	120
125	45.0	228.4	16,700	48.7	234.7	15,200	51.3	238.4	14,200	125
129	42.6	224.3	15,900	46.4	231.0	14,500	49.4	235.1	13,500	129
130	42.4	223.2	15,700	46.3	230.1	14,300	49.0	234.2	13,300	130
135	39.7	217.5	14,900	43.8	225.1	13,500	46.6	229.7	12,500	135
140	36.8	211.1	14,000	41.1	219.6	12,700	44.1	224.8	11,800	140
145	33.7	204.1	13,300	38.3	213.6	12,000	41.4	219.4	11,100	145
149	30.6	197.7	12,700	35.6	208.3	11,500	38.6	214.6	10,600	149
150	30.4	196.1	12,500	35.3	206.9	11,400	38.7	213.4	10,500	150
155	26.6	186.9	11,900	32.1	199.4	10,700	35.7	206.8	9,900	155
160	22.3	175.9	11,200	28.6	190.9	10,200	32.5	199.4	9,300	160
165	16.9	161.8	10,600	24.5	180.9	9,600	29.0	191.0	8,800	165
170	8.9	140.0	10,000	19.8	168.6	9,100	25.1	181.2	8,300	170
171	6.2	132.4	9,900	17.8	165.3	9,000	24.0	178.8	8,200	171
175				13.6	151.9	8,600	20.4	169.3	7,800	175
179				4.3	126.5	8,100	15.2	156.6	7,500	179
180							14.4	153.4	7,400	180
185							1.5	117.7	6,900	185
190										190
194										194
195										195
200										200
203										203

MLC150-1 S-1

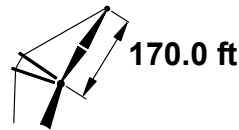
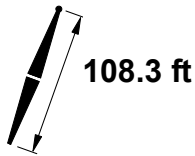
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft		
54									54	
55									55	
60									60	
65									65	
70									70	
72									72	
75									75	
80									80	
85									85	
90									90	
95									95	
100									100	
105									105	
107	63.0	253.7	15,800						107	
110	61.7	252.2	15,100						110	
115	59.7	249.4	14,100						115	
120	57.6	246.3	13,200						120	
125	55.5	243.0	12,400						125	
129	53.4	240.1	11,700	57.6	243.3	10,000			129	
130	53.2	239.4	11,600	57.2	242.6	9,900			130	
135	51.0	235.5	10,900	55.0	239.3	9,300			135	
140	48.6	231.3	10,200	52.8	235.6	8,700			140	
145	46.2	226.7	9,600	50.5	231.7	8,100			145	
149	43.6	222.7	9,100	48.4	228.2	7,700	52.6	231.6	5,800	149
150	43.7	221.7	9,000	48.1	227.4	7,600	52.2	230.8	5,700	150
155	41.0	216.2	8,500	45.7	222.7	7,000	49.9	226.7	5,300	155
160	38.2	210.2	8,000	43.1	217.6	6,500	47.5	222.4	4,800	160
165	35.2	203.5	7,500	40.4	212.0	6,100	45.0	217.6	4,400	165
170	32.0	195.9	7,000	37.6	205.8	5,600	42.4	212.3	4,000	170
171	30.4	194.2	7,000	36.4	204.4	5,500	41.4	211.2	3,900	171
175	28.4	187.3	6,600	34.6	198.9	5,200	39.7	206.6	3,700	175
179	24.8	179.3	6,300	31.6	192.8	4,900	36.6	201.5	3,400	179
180	24.4	177.3	6,200	31.3	191.2	4,800	36.8	200.3	3,300	180
185	19.6	164.9	5,800	27.6	182.4	4,400	33.7	193.2	3,000	185
190	13.3	147.9	5,400	23.5	171.9	4,000				190
194	3.2	120.3	5,100	19.0	161.5	3,800				194
195				18.5	158.8	3,700				195
200				11.5	140.2	3,300				200
203				3.0	116.7	3,100				203

MLC150-1 S-1

ASME B30.5



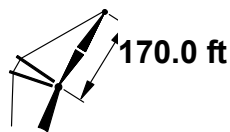
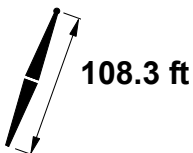
	87°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	lb	ft	
56	75.0	279.4	31,500						56	
60	73.6	278.3	31,100						60	
65	71.8	276.7	30,700						65	
70	70.0	275.0	30,200						70	
75	68.2	273.1	29,900	70.9	275.1	29,400			75	
80	66.4	271.0	29,300	69.1	273.3	28,700			80	
85	64.5	268.7	28,100	67.3	271.3	26,400			85	
89	62.4	266.7	26,800	65.4	269.5	24,800	67.9	271.0	23,100	89
90	62.7	266.3	26,500	65.5	269.1	24,300	67.5	270.6	22,800	90
95	60.8	263.6	24,600	63.6	266.7	22,600	65.7	268.4	21,100	95
100	58.8	260.6	22,800	61.7	264.1	21,000	63.8	266.1	19,500	100
105	56.8	257.5	21,300	59.8	261.3	19,500	62.0	263.5	18,200	105
110	54.8	254.1	19,900	57.8	258.3	18,200	60.0	260.7	17,000	110
112	53.2	252.6	19,400	56.2	257.0	17,800	59.2	259.5	16,500	112
115	52.7	250.4	18,700	55.8	255.0	17,100	58.1	257.7	15,900	115
120	50.5	246.5	17,500	53.7	251.5	16,000	56.1	254.5	14,800	120
125	48.3	242.2	16,500	51.6	247.7	15,000	54.0	251.0	13,900	125
130	46.0	237.5	15,500	49.4	243.6	14,100	51.9	247.2	13,100	130
134	43.6	233.5	14,800	47.4	240.0	13,500	49.4	243.9	12,400	134
135	43.6	232.5	14,600	47.2	239.1	13,300	49.7	243.1	12,300	135
140	41.1	227.0	13,800	44.8	234.3	12,500	47.5	238.7	11,600	140
145	38.5	221.0	13,100	42.4	229.1	11,800	45.1	233.9	10,900	145
150	35.7	214.4	12,400	39.8	223.3	11,200	42.7	228.8	10,300	150
155	32.7	207.1	11,700	37.1	217.0	10,500	40.2	223.1	9,700	155
160	29.4	198.8	11,100	34.2	210.1	10,000	37.5	216.9	9,100	160
165	25.8	189.2	10,500	31.1	202.3	9,400	34.6	210.0	8,600	165
170	21.6	177.8	9,900	27.7	193.4	8,900	31.5	202.3	8,100	170
175	16.4	163.3	9,400	23.8	183.0	8,400	28.1	193.6	7,700	175
180	8.6	140.7	8,900	19.2	170.3	7,900	24.3	183.4	7,200	180
181	6.0	132.9	8,800	17.8	166.9	7,800	23.0	180.9	7,100	181
185				13.2	153.1	7,500	19.8	171.1	6,800	185
189				4.2	126.9	7,100	15.0	157.9	6,500	189
190							14.0	154.6	6,400	190
195							1.5	117.9	5,900	195
200										200
204										204

MLC150-1 S-1

ASME B30.5



75,200 lb
+
0 lb



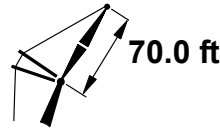
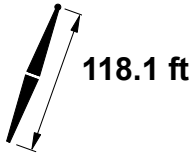
	75°			70°			
	ft	ft	lb	ft	ft	lb	
56							56
60							60
65							65
70							70
75							75
80							80
85							85
89							89
90							90
95							95
100							100
105							105
110							110
112	62.8	262.4	14,500				112
115	61.6	260.8	13,900				115
120	59.7	258.0	12,900				120
125	57.7	255.0	12,100				125
130	55.7	251.7	11,300				130
134	53.4	248.9	10,800	57.7	251.9	9,100	134
135	53.7	248.2	10,600	57.3	251.3	9,000	135
140	51.5	244.3	10,000	55.3	248.0	8,300	140
145	49.4	240.2	9,300	53.2	244.4	7,700	145
150	47.1	235.7	8,800	51.1	240.5	7,200	150
155	44.7	230.9	8,200	48.9	236.3	6,700	155
160	42.3	225.6	7,700	46.6	231.7	6,200	160
165	39.7	219.9	7,300	44.3	226.8	5,700	165
170	37.0	213.6	6,800	41.8	221.5	5,300	170
175	34.1	206.6	6,400	39.2	215.6	4,800	175
180	31.0	198.7	6,000	36.4	209.2	4,500	180
181	29.4	197.0	5,900	35.4	207.7	4,400	181
185	27.5	189.8	5,600	33.5	202.0	4,100	185
189	23.8	181.5	5,300	30.6	195.6	3,800	189
190	23.6	179.4	5,200	30.3	194.0	3,700	190
195	19.0	166.6	4,800	26.8	184.8	3,400	195
200	12.9	149.0	4,400	22.8	173.9	3,100	200
204	3.2	120.6	4,100				204

MLC150-1 S-1

ASME B30.5



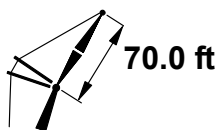
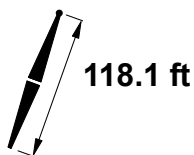
75,200 lb
+
0 lb



	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
31	74.6	192.6	88,100 d							31
32	73.8	192.3	88,000 d							32
34	72.1	191.7	87,900 d							34
36	70.3	191.0	87,700 d							36
38	68.6	190.2	84,400 c							38
40	66.8	189.4	80,700 c							40
42	65.0	188.5	76,600 c							42
44	63.2	187.6	72,000 c	70.5	190.2	67,000 d				44
46	61.4	186.5	67,800 c	68.8	189.4	63,200 c				46
48	59.5	185.4	64,100 b	67.0	188.6	59,700 c				48
50	57.6	184.1	60,800 b	65.2	187.7	56,600 c				50
53	54.0	182.0	56,500 b	62.0	186.2	52,600 c	68.0	188.1	49,500 c	53
55	52.6	180.6	53,700 b	60.6	185.2	50,000 c	66.2	187.2	47,200 c	55
60	47.2	176.4	47,900 b	55.8	182.1	44,600 b	61.7	184.8	42,100 c	60
65	41.3	171.3	43,200	50.7	178.4	40,200 b	56.9	181.8	38,000 b	65
69	35.4	166.2	40,100	46.0	174.7	37,300 b	52.0	178.9	35,200 b	69
70	34.7	164.9	39,300	45.2	173.8	36,500 b	51.9	178.2	34,500 b	70
75	26.7	156.5	35,900	39.1	168.3	33,400	46.4	173.9	31,500 b	75
80	15.2	143.4	32,900	32.0	161.3	30,700	40.5	168.6	28,900	80
82	6.4	132.9	31,700	28.4	157.5	29,700	37.2	166.0	28,000	82
84				24.8	153.7	28,800	34.4	163.3	27,100	84
85				23.2	151.8	28,300	33.7	162.0	26,700	85
90				7.8	133.7	26,000	25.4	153.2	24,700	90
95							12.9	138.8	22,900	95
96							8.5	133.5	22,500	96
99										99
100										100
105										105
106										106
110										110
115										115
116										116
120										120
125										125
126										126

MLC150-1 S-1

ASME B30.5



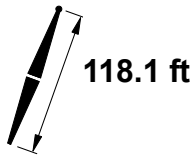
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
31										31
32										32
34										34
36										36
38										38
40										40
42										42
44										44
46										46
48										48
50										50
53										53
55										55
60										60
65										65
69	62.6	182.9	31,600 c							69
70	61.7	182.4	31,100 c							70
75	56.9	179.4	28,400 b							75
80	51.9	175.8	26,000 b							80
82	49.0	174.1	25,200 b							82
84	47.0	172.4	24,400 b	57.7	176.6	21,700 b				84
85	46.5	171.5	24,000 b	56.7	176.0	21,400 b				85
90	40.5	166.2	22,200	51.7	172.4	19,800 b				90
95	33.8	159.6	20,600	46.3	168.0	18,300 b				95
96	31.4	157.9	20,300	44.8	166.9	18,100 b				96
99	26.6	152.6	19,500	41.2	163.8	17,300 b	52.2	168.6	15,100 b	99
100	25.5	150.8	19,200	40.3	162.7	17,000	51.1	167.8	14,900 b	100
105	13.0	136.5	17,800	33.5	156.0	15,900	45.6	163.4	13,900 b	105
106	8.7	131.3	17,500	31.4	154.2	15,700	43.8	162.3	13,700 b	106
110				25.1	147.1	14,800	39.6	157.9	12,900	110
115				12.2	132.3	13,800	32.6	151.1	12,100	115
116				7.5	126.5	13,500	30.4	149.2	11,900	116
120							24.0	141.8	11,300	120
125							10.0	125.4	10,400	125
126							2.3	116.1	10,200	126

MLC150-1 S-1

ASME B30.5



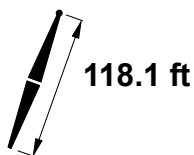
75,200 lb
+
0 lb



	87°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
34	74.4	202.1	81,100 d							34
36	72.9	201.5	81,000 d							36
38	71.4	200.9	80,800 c							38
40	69.9	200.2	79,700 c							40
42	68.3	199.4	76,300 c							42
44	66.8	198.6	71,700 c							44
46	65.2	197.7	67,600 c							46
47	64.0	197.2	65,700 c	70.8	199.7	61,000 c				47
48	63.6	196.7	63,900 b	70.0	199.4	59,400 c				48
50	62.0	195.7	60,500 b	68.5	198.6	56,200 c				50
55	57.9	192.8	53,400 b	64.6	196.4	49,600 c				55
57	55.4	191.4	51,100 b	62.4	195.4	47,500 c	67.8	197.2	44,600 c	57
60	53.5	189.4	47,700 b	60.5	193.9	44,300 b	65.5	195.9	41,700 c	60
65	48.9	185.4	43,000	56.3	190.8	39,900 b	61.5	193.4	37,600 b	65
70	44.0	180.6	39,100	51.9	187.2	36,200	57.3	190.5	34,100 b	70
74	39.0	176.1	36,400	47.8	183.8	33,800	53.0	187.7	31,800 b	74
75	38.6	174.9	35,700	47.2	182.9	33,100	52.9	187.0	31,200 b	75
80	32.4	167.9	32,800	42.1	177.8	30,400	48.3	182.9	28,600	80
85	24.9	158.8	30,300	36.5	171.7	28,100	43.3	178.0	26,400	85
89	16.0	147.5	28,400	30.4	165.6	26,400	38.2	173.3	24,900	89
90	14.2	144.7	28,000	29.9	164.1	26,000	37.8	172.2	24,500	90
92	6.0	133.4	27,100	25.8	159.9	25,300	34.6	169.3	23,800	92
95				21.7	153.7	24,100	31.5	164.9	22,700	95
100				7.3	134.4	22,400	23.7	155.4	21,100	100
105							12.1	139.9	19,700	105
106							7.9	134.2	19,400	106
110										110
115										115
116										116
120										120
125										125
126										126
130										130
135										135
136										136

MLC150-1 S-1

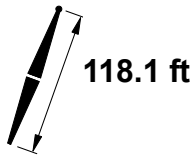
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft		
34									34	
36									36	
38									38	
40									40	
42									42	
44									44	
46									46	
47									47	
48									48	
50									50	
55									55	
57									57	
60									60	
65									65	
70									70	
74	62.3	191.6	28,500 b						74	
75	61.5	191.0	28,000 b						75	
80	57.3	188.1	25,700 b						80	
85	53.0	184.6	23,700 b						85	
89	48.8	181.3	22,200 b	58.0	185.3	19,600 b			89	
90	48.3	180.5	21,900	57.1	184.6	19,300 b			90	
92	46.0	178.5	21,300	55.0	183.2	18,800 b			92	
95	43.3	175.6	20,300	52.8	181.1	17,900 b			95	
100	37.8	169.8	18,900	48.1	177.0	16,700			100	
105	31.5	162.6	17,600	43.1	172.1	15,500	52.3	176.6	13,500	105
106	29.4	160.7	17,400	41.8	170.9	15,300	51.0	175.8	13,300	106
110	23.8	153.0	16,500	37.6	166.2	14,500	47.6	172.4	12,600	110
115	12.2	137.6	15,300	31.2	158.9	13,500	42.5	167.4	11,700	115
116	8.1	132.1	15,100	29.4	157.0	13,400	40.8	166.2	11,600	116
120				23.4	149.2	12,700	36.9	161.4	10,900	120
125				11.5	133.3	11,800	30.5	153.9	10,200	125
126				7.0	127.2	11,600	28.4	151.9	10,100	126
130							22.4	143.8	9,500	130
135							9.3	126.3	8,800	135
136							2.2	116.3	8,600	136

MLC150-1 S-1

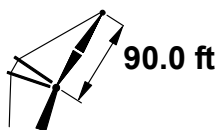
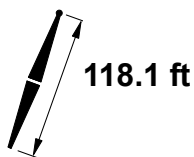
ASME B30.5



	87°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
36	74.8	211.9	74,200 d							36
38	73.5	211.4	74,000 c							38
40	72.2	210.7	73,800 c							40
42	70.8	210.1	73,700 c							42
44	69.5	209.4	71,500 c							44
46	68.1	208.6	67,400 c							46
48	66.7	207.8	63,700 b							48
50	65.3	206.9	60,300 b	71.0	209.3	56,000 c				50
55	61.8	204.4	53,200 b	67.6	207.4	49,400 c				55
60	58.1	201.5	47,500 b	64.1	205.1	44,100 b				60
61	57.2	200.8	46,600 b	63.2	204.6	43,200 b	67.6	206.4	40,600 c	61
65	54.3	198.1	42,800	60.5	202.5	39,700 b	64.9	204.6	37,400 b	65
70	50.2	194.3	38,900	56.8	199.5	36,000	61.3	202.1	33,900 b	70
75	46.0	189.8	35,600	52.9	195.9	32,900	57.6	199.1	31,000 b	75
78	42.6	186.6	33,900	49.6	193.5	31,300	54.6	197.1	29,400 b	78
80	41.4	184.5	32,700	48.8	191.9	30,300	53.7	195.7	28,400	80
85	36.3	178.3	30,200	44.4	187.1	27,900	49.7	191.8	26,200	85
90	30.5	170.7	28,000	39.6	181.6	25,900	45.4	187.2	24,300	90
95	23.5	160.9	26,000	34.3	174.9	24,100	40.7	181.9	22,600	95
100	13.4	145.9	24,200	28.2	166.7	22,400	35.5	175.5	21,000	100
102	5.7	133.9	23,500	24.8	162.2	21,800	32.6	172.3	20,500	102
105				20.4	155.6	20,900	29.6	167.7	19,600	105
110				6.9	135.0	19,500	22.4	157.4	18,400	110
111							19.8	154.1	18,100	111
115							11.4	140.9	17,100	115
116							7.5	134.9	16,900	116
120										120
125										125
126										126
130										130
135										135
136										136
140										140
145										145
146										146

MLC150-1 S-1

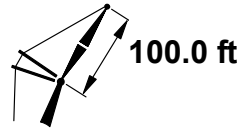
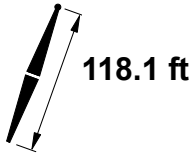
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
36										36
38										38
40										40
42										42
44										44
46										46
48										48
50										50
55										55
60										60
61										61
65										65
70										70
75										75
78	62.8	200.8	26,300 b							78
80	61.3	199.7	25,400 b							80
85	57.6	196.7	23,400 b							85
90	53.8	193.3	21,700							90
95	49.7	189.4	20,100	57.5	193.3	17,700 b				95
100	45.4	184.8	18,700	53.6	189.9	16,400				100
102	43.0	182.7	18,200	51.4	188.3	16,000				102
105	40.7	179.5	17,500	49.5	185.9	15,300				105
110	35.6	173.1	16,300	45.2	181.3	14,300				110
111	33.8	171.5	16,100	44.0	180.2	14,100	52.4	184.6	12,100	111
115	29.7	165.3	15,300	40.5	175.9	13,400	49.1	181.3	11,500	115
116	27.6	163.2	15,100	39.0	174.6	13,200	48.0	180.4	11,300	116
120	22.4	155.1	14,300	35.4	169.5	12,500	44.7	176.6	10,700	120
125	11.5	138.7	13,400	29.4	161.6	11,700	40.0	171.2	10,000	125
126	7.7	132.7	13,200	27.6	159.6	11,600	38.8	169.9	9,900	126
130				22.1	151.3	11,000	34.8	164.6	9,400	130
135				10.8	134.3	10,200	28.7	156.5	8,800	135
136				6.6	127.8	10,100	26.6	154.4	8,700	136
140							21.1	145.8	8,200	140
145							8.8	127.1	7,600	145
146							2.0	116.5	7,400	146

MLC150-1 S-1

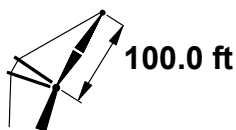
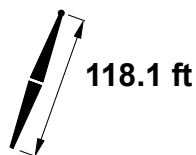
ASME B30.5



	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
39	74.6	221.5	68,200 c							39
40	74.0	221.2	68,100 c							40
42	72.8	220.6	67,900 c							42
44	71.6	220.0	67,700 c							44
46	70.4	219.3	67,100 c							46
48	69.2	218.5	63,400 b							48
50	67.9	217.8	60,000 b							50
54	64.6	216.0	54,400 b	70.5	218.5	50,200 c				54
55	64.8	215.6	53,000 b	69.9	218.1	49,000 c				55
60	61.6	213.0	47,300 b	66.8	216.1	43,700 b				60
65	58.3	210.1	42,600	63.7	213.8	39,400 b	67.5	215.6	37,000 b	65
70	54.9	206.8	38,700	60.4	211.2	35,700	64.4	213.3	33,500 b	70
75	51.3	203.1	35,300	57.1	208.1	32,600	61.2	210.8	30,600	75
80	47.5	198.8	32,500	53.6	204.7	30,000	57.8	207.8	28,100	80
83	44.6	195.8	31,000	50.6	202.3	28,600	55.2	205.8	26,800	83
85	43.5	193.9	30,000	50.0	200.7	27,600	54.4	204.5	25,900	85
90	39.1	188.2	27,800	46.1	196.2	25,600	50.8	200.6	24,000	90
95	34.4	181.5	25,800	42.0	191.1	23,800	47.0	196.3	22,300	95
100	28.9	173.4	24,100	37.5	185.1	22,200	42.9	191.3	20,700	100
105	22.2	162.9	22,500	32.5	177.9	20,700	38.5	185.5	19,400	105
110	12.7	147.0	21,000	26.7	169.1	19,400	33.7	178.6	18,100	110
112	5.4	134.4	20,400	23.2	164.4	18,900	31.0	175.2	17,700	112
115				19.4	157.3	18,200	28.1	170.2	17,000	115
117				13.8	148.7	17,700	25.2	165.9	16,600	117
120				6.6	135.6	17,000	21.2	159.3	15,900	120
125							10.8	141.9	14,900	125
126							7.1	135.5	14,700	126
130										130
135										135
136										136
140										140
145										145
146										146
150										150
155										155
156										156

MLC150-1 S-1

ASME B30.5



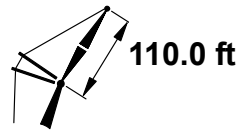
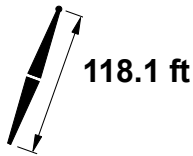
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft		
39									39	
40									40	
42									42	
44									44	
46									46	
48									48	
50									50	
54									54	
55									55	
60									60	
65									65	
70									70	
75									75	
80									80	
83	62.5	209.4	23,800 b						83	
85	61.2	208.4	23,000						85	
90	57.9	205.4	21,300						90	
95	54.4	202.1	19,700						95	
100	50.8	198.2	18,400	57.7	202.0	16,000			100	
105	47.0	193.9	17,100	54.3	198.6	14,900			105	
110	43.0	188.9	16,000	50.7	194.8	13,900			110	
112	40.4	186.6	15,600	48.4	193.0	13,500			112	
115	38.6	183.1	15,000	46.8	190.4	13,000			115	
117	36.0	180.3	14,600	44.4	188.4	12,700	52.5	192.6	10,800	
120	33.7	176.2	14,000	42.8	185.4	12,200	50.3	190.2	10,300	
125	28.1	167.9	13,200	38.4	179.5	11,400	46.4	185.7	9,600	
126	26.6	165.7	13,000	37.0	178.1	11,200	45.2	184.7	9,500	
130	21.3	157.0	12,400	33.5	172.6	10,700	42.3	180.6	9,000	
135	10.9	139.6	11,600	27.9	164.2	10,000	37.9	174.7	8,400	
136	7.3	133.4	11,400	25.6	162.0	9,900	36.0	173.3	8,300	
140				20.9	153.2	9,400	32.9	167.7	7,900	
145				10.2	135.2	8,700	27.2	159.0	7,300	
146				6.2	128.3	8,600	25.6	156.7	7,200	
150							20.0	147.6	6,800	
155							8.3	127.8	6,200	
156							1.9	116.7	6,100	

MLC150-1 S-1

ASME B30.5



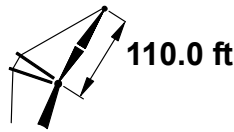
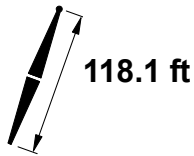
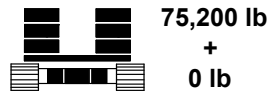
75,200 lb
+
0 lb



	87°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
41	75.0	231.3	62,900 c							41
42	74.4	231.0	62,900 c							42
44	73.3	230.4	62,500 c							44
46	72.2	229.8	61,600 c							46
48	71.1	229.2	60,600 b							48
50	70.0	228.5	59,500 b							50
55	67.2	226.5	52,800 b							55
57	65.8	225.6	50,600 b	70.7	228.0	46,700 b				57
60	64.4	224.3	47,100	69.0	226.9	43,600 b				60
65	61.5	221.7	42,500	66.2	224.9	39,300 b				65
68	59.2	220.0	40,100	64.2	223.4	37,100 b	68.0	225.1	34,800 b	68
70	58.5	218.8	38,600	63.4	222.5	35,600	66.9	224.3	33,400 b	70
75	55.3	215.6	35,200	60.4	219.8	32,500	64.0	222.0	30,500	75
80	52.1	211.9	32,400	57.4	216.8	29,900	61.1	219.4	28,000	80
85	48.7	207.7	29,900	54.2	213.4	27,600	58.0	216.5	25,800	85
87	46.8	205.9	29,000	52.4	211.9	26,800	56.4	215.2	25,100	87
90	45.2	203.1	27,700	50.9	209.6	25,500	54.9	213.2	23,900	90
95	41.4	197.8	25,800	47.5	205.3	23,700	51.7	209.4	22,200	95
100	37.3	191.7	24,100	43.8	200.4	22,100	48.3	205.2	20,700	100
105	32.7	184.5	22,500	39.9	194.8	20,700	44.7	200.5	19,300	105
110	27.5	175.9	21,100	35.7	188.4	19,400	40.8	195.1	18,100	110
115	21.2	164.8	19,800	30.9	180.8	18,200	36.7	188.9	17,000	115
120	12.1	148.1	18,600	25.4	171.4	17,100	32.1	181.5	15,900	120
122	5.1	134.9	18,100	22.2	166.5	16,700	29.6	178.0	15,600	122
123				20.8	164.0	16,500	28.4	176.2	15,400	123
125				18.5	159.0	16,100	26.7	172.7	15,000	125
130				6.3	136.2	15,100	20.2	161.1	14,100	130
135							10.3	142.8	13,300	135
136							6.8	136.1	13,100	136
140										140
145										145
146										146
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155										155
156										156
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166										166

MLC150-1 S-1

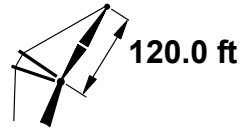
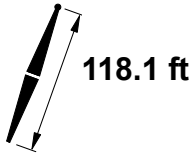
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
41										41
42										42
44										44
46										46
48										48
50										50
55										55
57										57
60										60
65										65
68										68
70										70
75										75
80										80
85										85
87	62.9	218.6	22,200							87
90	61.1	217.0	21,200							90
95	58.1	214.1	19,700							95
100	54.9	210.8	18,300							100
105	51.7	207.0	17,100	57.9	210.7	14,900				105
110	48.3	202.9	16,000	54.8	207.3	13,900				110
115	44.7	198.1	14,900	51.6	203.6	12,900				115
120	40.9	192.7	14,000	48.1	199.4	12,100				120
122	38.4	190.2	13,700	46.4	197.5	11,800				122
123	37.6	189.0	13,500	45.6	196.5	11,700	52.5	200.6	9,900	123
125	36.7	186.5	13,200	44.5	194.6	11,400	51.2	199.0	9,600	125
130	32.1	179.2	12,400	40.7	189.2	10,700	47.8	194.8	9,000	130
135	26.8	170.3	11,600	36.5	182.9	10,000	44.1	189.9	8,400	135
136	24.8	168.0	11,500	35.0	181.4	9,900	43.2	188.8	8,300	136
140	20.3	158.8	11,000	31.9	175.5	9,400	40.3	184.4	7,900	140
145	10.4	140.6	10,300	26.5	166.6	8,800	36.0	178.0	7,300	145
146	6.9	134.0	10,100	24.6	164.3	8,700	35.0	176.5	7,200	146
150				19.9	155.0	8,300	31.4	170.5	6,800	150
155				9.8	136.1	7,700	25.9	161.4	6,300	155
156				6.0	128.8	7,600	23.8	159.0	6,200	156
160							19.1	149.3	5,800	160
165							8.0	128.5	5,300	165
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MLC150-1 S-1

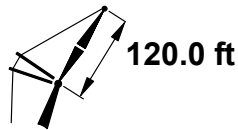
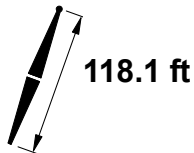
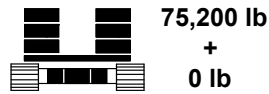
ASME B30.5



	87°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
44	74.8	240.8	48,900 c							44
46	73.8	240.3	48,500 c							46
48	72.8	239.7	48,100 b							48
50	71.8	239.0	47,800 b							50
55	69.2	237.3	46,900 b							55
60	66.7	235.2	46,100	70.9	237.6	43,300 b				60
65	64.0	233.0	42,200	68.3	235.7	39,000 b				65
70	61.3	230.4	38,300	65.7	233.6	35,300				70
72	59.8	229.2	37,000	64.2	232.6	34,100	67.9	234.3	31,900 b	72
75	58.6	227.5	35,000	63.1	231.2	32,200	66.3	233.0	30,200	75
80	55.7	224.2	32,100	60.4	228.5	29,600	63.7	230.7	27,700	80
85	52.8	220.7	29,700	57.6	225.5	27,300	61.0	228.1	25,500	85
90	49.7	216.6	27,500	54.7	222.1	25,200	58.2	225.2	23,600	90
92	47.8	214.8	26,700	52.8	220.6	24,500	56.8	223.8	22,900	92
95	46.5	212.2	25,500	51.7	218.4	23,400	55.4	221.9	21,900	95
100	43.1	207.1	23,800	48.6	214.2	21,900	52.4	218.2	20,400	100
105	39.5	201.4	22,300	45.3	209.6	20,400	49.3	214.2	19,000	105
110	35.6	194.9	20,900	41.9	204.3	19,100	46.1	209.6	17,800	110
111	34.2	193.4	20,600	40.4	203.1	18,900	45.2	208.6	17,600	111
115	31.3	187.4	19,600	38.2	198.4	17,900	42.7	204.5	16,700	115
120	26.3	178.3	18,400	34.1	191.5	16,900	39.0	198.7	15,700	120
125	20.3	166.7	17,400	29.6	183.5	15,900	35.1	192.1	14,700	125
129	12.8	152.6	16,500	25.0	175.6	15,100	31.0	185.9	14,000	129
130	11.6	149.1	16,300	24.3	173.6	14,900	30.7	184.3	13,900	130
132	4.9	135.3	15,900	21.2	168.4	14,600	28.0	180.6	13,500	132
135				17.7	160.6	14,100	25.6	175.0	13,100	135
140				6.0	136.7	13,200	19.3	162.9	12,300	140
145							9.8	143.7	11,600	145
146							6.5	136.7	11,400	146
150										150
155										155
156										156
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166										166
170										170
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MLC150-1 S-1

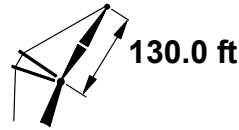
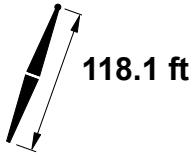
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
44										44
46										46
48										48
50										50
55										55
60										60
65										65
70										70
72										72
75										75
80										80
85										85
90										90
92	62.6	227.3	20,200							92
95	61.0	225.7	19,300							95
100	58.2	222.8	17,900							100
105	55.4	219.5	16,700							105
110	52.4	215.8	15,600							110
111	51.4	215.0	15,400	57.5	218.7	13,300				111
115	49.3	211.8	14,600	55.3	216.0	12,600				115
120	46.1	207.2	13,700	52.3	212.4	11,700				120
125	42.7	202.1	12,800	49.2	208.3	11,000				125
129	39.6	197.5	12,200	45.8	204.6	10,400	52.6	208.6	8,600	129
130	39.1	196.3	12,100	46.0	203.7	10,300	52.0	207.8	8,500	130
132	37.4	193.7	11,800	43.8	201.7	10,000	49.8	206.2	8,300	132
135	35.1	189.7	11,300	42.6	198.6	9,700	48.9	203.7	7,900	135
140	30.7	182.0	10,700	38.9	192.8	9,100	45.6	199.1	7,300	140
145	25.6	172.6	10,000	34.9	186.1	8,500	42.2	193.9	6,800	145
146	23.8	170.2	9,900	33.2	184.6	8,400	41.2	192.7	6,700	146
150	19.4	160.6	9,400	30.5	178.3	8,000	38.5	188.0	6,300	150
155	10.0	141.5	8,900	25.4	168.9	7,500	34.5	181.2	5,800	155
156	6.6	134.6	8,700	23.8	166.5	7,400	33.0	179.6	5,700	156
160				19.1	156.7	7,000	30.0	173.3	5,400	160
165				9.3	136.9	6,500	24.8	163.6	4,900	165
166				5.7	129.4	6,400	22.8	161.1	4,900	166
170							18.3	151.0	4,500	170
175							7.6	129.2	4,100	175
176							1.8	117.0	3,900	176

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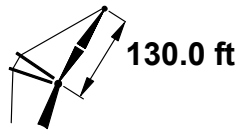
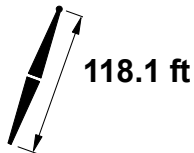
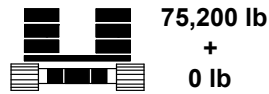
ASME B30.5



	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
47	74.6	250.4	45,500 b						47	
48	74.1	250.1	45,400 b						48	
50	73.2	249.5	45,000 b						50	
55	70.9	247.9	44,200 b						55	
60	68.5	246.1	43,500						60	
63	66.8	244.8	42,600	71.0	247.1	40,300 b			63	
65	66.2	244.0	42,000	70.1	246.4	38,700 b			65	
70	63.7	241.6	38,100	67.7	244.5	35,100			70	
75	61.2	239.0	34,800	65.3	242.3	32,000			75	
76	60.4	238.5	34,200	64.4	241.8	31,500	67.8	243.5	29,400	76
80	58.7	236.1	31,900	62.8	239.9	29,300	65.8	241.8	27,400	80
85	56.1	232.9	29,400	60.3	237.2	27,000	63.4	239.4	25,200	85
90	53.4	229.4	27,300	57.8	234.2	25,000	60.9	236.7	23,300	90
95	50.6	225.5	25,300	55.1	230.8	23,200	58.3	233.8	21,600	95
96	49.4	224.6	25,000	54.4	230.1	22,900	57.4	233.2	21,300	96
100	47.7	221.2	23,600	52.4	227.2	21,600	55.7	230.6	20,100	100
105	44.6	216.4	22,100	49.6	223.1	20,200	53.0	227.0	18,800	105
110	41.4	211.0	20,700	46.6	218.6	18,900	50.2	223.0	17,600	110
115	37.9	205.0	19,400	43.5	213.6	17,700	47.3	218.6	16,500	115
116	36.4	203.6	19,200	42.4	212.5	17,500	46.4	217.7	16,300	116
120	34.2	198.1	18,300	40.2	208.0	16,700	44.2	213.8	15,500	120
125	30.0	190.1	17,200	36.6	201.7	15,700	40.9	208.3	14,500	125
130	25.3	180.6	16,300	32.7	194.5	14,800	37.4	202.2	13,700	130
135	19.5	168.4	15,300	28.4	186.0	13,900	33.6	195.2	12,900	135
140	11.1	150.1	14,500	23.4	175.7	13,200	29.4	187.0	12,100	140
142	4.7	135.7	14,100	20.2	170.3	12,900	27.0	183.1	11,900	142
145				17.0	162.1	12,400	24.6	177.2	11,500	145
150				5.8	137.2	11,700	18.6	164.6	10,800	150
155							9.5	144.5	10,200	155
156							6.2	137.3	10,000	156
160										160
165										165
166										166
170										170
175										175
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185										185
186										186

MLC150-1 S-1

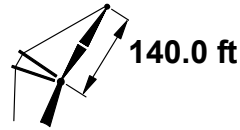
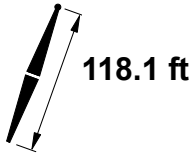
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft		
47									47	
48									48	
50									50	
55									55	
60									60	
63									63	
65									65	
70									70	
75									75	
76									76	
80									80	
85									85	
90									90	
95									95	
96	62.9	236.5	18,700						96	
100	60.9	234.3	17,700						100	
105	58.4	231.4	16,500						105	
110	55.7	228.2	15,400						110	
115	53.0	224.6	14,400						115	
116	52.4	223.8	14,200	57.7	227.4	12,100			116	
120	50.2	220.6	13,400	55.6	224.7	11,500			120	
125	47.3	216.2	12,600	52.9	221.1	10,700			125	
130	44.2	211.4	11,800	50.1	217.2	10,000			130	
135	40.9	205.9	11,100	47.2	212.8	9,400	52.6	216.6	7,500	135
140	37.5	199.8	10,500	44.1	207.9	8,800	49.8	212.6	6,900	140
142	35.4	197.0	10,200	42.4	205.7	8,600	47.8	210.8	6,700	142
145	33.7	192.8	9,900	40.8	202.4	8,300	46.8	208.1	6,400	145
150	29.5	184.7	9,300	37.3	196.2	7,800	43.7	203.2	5,900	150
155	24.6	174.9	8,700	33.5	189.2	7,300	40.4	197.6	5,500	155
156	22.8	172.3	8,600	32.2	187.6	7,200	39.2	196.4	5,400	156
160	18.6	162.2	8,200	29.3	181.0	6,800	36.9	191.4	5,000	160
165	9.6	142.3	7,700	24.4	171.1	6,400	33.1	184.2	4,600	165
166	6.4	135.2	7,600	22.8	168.5	6,300	32.0	182.6	4,600	166
170				18.3	158.3	5,900	28.8	175.9	4,200	170
175				9.0	137.7	5,400	23.8	165.8	3,900	175
176				5.5	129.8	5,300	21.8	163.1	3,800	176
180							17.6	152.5	3,500	180
185							7.3	129.9	3,100	185
186							1.7	117.1	3,000	186

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ASME B30.5



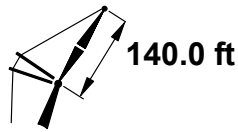
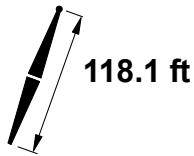
	87°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
49	74.9	260.2	42,300 b							49
50	74.4	259.9	42,200 b							50
55	72.3	258.4	41,500 b							55
60	70.1	256.7	40,800							60
65	68.0	254.8	39,800							65
67	66.2	254.0	39,000	70.7	256.3	36,900				67
70	65.7	252.7	37,800	69.4	255.2	34,800				70
75	63.5	250.3	34,500	67.2	253.2	31,700				75
80	61.2	247.7	31,700	64.9	251.0	29,000	67.7	252.6	27,100	80
85	58.8	244.8	29,200	62.6	248.5	26,700	65.4	250.5	24,900	85
90	56.4	241.6	27,000	60.3	245.8	24,700	63.2	248.1	23,000	90
95	53.9	238.1	25,100	57.9	242.8	22,900	60.8	245.4	21,300	95
100	51.3	234.3	23,400	55.5	239.5	21,300	58.5	242.5	19,800	100
101	50.4	233.5	23,100	54.4	238.8	21,000	57.6	241.8	19,500	101
105	48.6	230.1	21,800	53.0	235.9	19,900	56.0	239.3	18,500	105
110	45.8	225.5	20,500	50.3	232.0	18,600	53.5	235.7	17,200	110
115	42.9	220.4	19,200	47.6	227.6	17,400	50.9	231.9	16,100	115
120	39.8	214.7	18,000	44.8	222.8	16,400	48.2	227.6	15,100	120
121	38.4	213.4	17,800	43.4	221.8	16,200	47.4	226.7	15,000	121
125	36.5	208.3	17,000	41.8	217.5	15,400	45.4	222.9	14,200	125
130	32.9	201.1	16,000	38.6	211.6	14,500	42.5	217.7	13,400	130
135	28.9	192.7	15,100	35.2	205.0	13,700	39.4	212.0	12,600	135
140	24.3	182.8	14,300	31.5	197.4	12,900	36.0	205.5	11,900	140
141	22.8	180.2	14,100	30.2	195.6	12,800	35.2	204.0	11,700	141
145	18.8	170.1	13,500	27.4	188.5	12,200	32.4	198.1	11,200	145
150	10.7	151.1	12,700	22.5	177.8	11,500	28.3	189.6	10,600	150
152	4.5	136.1	12,400	19.6	172.1	11,200	26.0	185.5	10,300	152
155				16.3	163.6	10,900	23.7	179.3	10,000	155
160				5.5	137.7	10,200	17.9	166.2	9,400	160
165							9.1	145.3	8,800	165
166							6.0	137.8	8,700	166
170										170
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186										186

MLC150-1 S-1

ASME B30.5



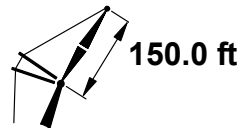
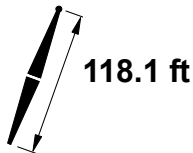
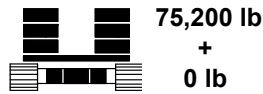
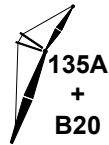
75,200 lb
+
0 lb



	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
49										49
50										50
55										55
60										60
65										65
67										67
70										70
75										75
80										80
85										85
90										90
95										95
100										100
101	62.7	245.2	17,000							101
105	60.9	243.0	16,100							105
110	58.5	240.1	15,000							110
115	56.0	236.9	14,000							115
120	53.5	233.3	13,100							120
121	52.4	232.6	12,900	57.9	236.0	10,900				121
125	51.0	229.5	12,300	55.9	233.4	10,400				125
130	48.3	225.2	11,500	53.4	229.9	9,700				130
135	45.5	220.5	10,800	50.8	226.0	9,000				135
140	42.5	215.3	10,100	48.2	221.7	8,500				140
141	41.4	214.2	10,000	47.4	220.8	8,400	52.7	224.6	6,300	141
145	39.4	209.6	9,500	45.3	217.0	7,900	50.6	221.4	5,900	145
150	36.1	203.1	9,000	42.4	211.8	7,400	47.9	217.1	5,400	150
152	34.4	200.2	8,800	40.8	209.5	7,200	46.2	215.2	5,200	152
155	32.4	195.8	8,400	39.3	206.0	6,800	45.0	212.4	4,900	155
160	28.4	187.2	7,900	35.9	199.5	6,400	42.1	207.1	4,500	160
165	23.7	177.0	7,500	32.3	192.1	5,900	38.9	201.2	4,100	165
166	21.8	174.4	7,400	31.2	190.4	5,800	37.4	199.9	4,000	166
170	17.9	163.9	7,000	28.2	183.6	5,500	35.5	194.7	3,700	170
175	9.2	143.1	6,500	23.5	173.2	5,000	31.8	187.2	3,400	175
176	6.1	135.7	6,400	21.8	170.6	5,000	30.2	185.4	3,300	176
180				17.7	159.9	4,600	27.7	178.4	3,000	180
185				8.7	138.5	4,200				185
186				5.3	130.3	4,100				186

MLC150-1 S-1

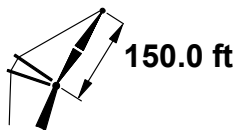
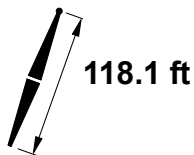
ASME B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
52	74.7	269.8	39,100 b							52
55	73.5	268.9	38,600 b							55
60	71.5	267.3	37,600							60
65	69.5	265.6	36,500							65
70	67.4	263.6	35,400	70.8	265.8	34,600				70
75	65.4	261.4	34,300	68.8	264.0	31,500				75
80	63.2	259.0	31,500	66.7	262.0	28,900				80
83	61.8	257.4	30,000	64.8	260.6	27,500	68.0	262.2	25,600	83
85	61.1	256.4	29,100	64.6	259.7	26,600	67.2	261.4	24,800	85
90	58.9	253.5	26,900	62.5	257.2	24,600	65.1	259.2	22,900	90
95	56.6	250.3	25,000	60.3	254.5	22,800	62.9	256.7	21,200	95
100	54.3	246.9	23,300	58.1	251.5	21,200	60.8	254.1	19,700	100
105	51.9	243.1	21,700	55.8	248.2	19,800	58.6	251.1	18,300	105
110	49.4	239.0	20,400	53.4	244.7	18,500	56.3	248.0	17,100	110
115	46.9	234.5	19,100	51.0	240.8	17,300	54.0	244.5	16,000	115
120	44.2	229.6	18,000	48.5	236.6	16,300	51.6	240.7	15,000	120
125	41.4	224.2	16,900	45.9	232.0	15,300	49.1	236.5	14,100	125
127	39.8	221.8	16,500	44.2	229.9	15,000	47.8	234.7	13,800	127
130	38.4	218.2	15,900	43.2	226.9	14,400	46.5	232.0	13,300	130
135	35.2	211.6	15,100	40.3	221.3	13,600	43.8	227.0	12,500	135
140	31.7	204.0	14,200	37.3	215.1	12,800	41.0	221.5	11,800	140
145	27.9	195.3	13,500	34.0	208.1	12,100	38.0	215.5	11,100	145
147	25.4	191.1	13,200	32.4	204.9	11,900	35.8	212.8	10,900	147
150	23.5	184.9	12,700	30.4	200.2	11,500	34.8	208.7	10,500	150
155	18.1	171.7	12,100	26.4	190.9	10,800	31.3	201.0	9,900	155
160	10.4	152.0	11,400	21.7	179.7	10,200	27.4	192.1	9,400	160
162	4.4	136.5	11,100	18.6	173.8	10,000	25.0	187.8	9,100	162
165				15.8	165.0	9,700	22.8	181.4	8,800	165
170				5.4	138.2	9,100	17.3	167.7	8,300	170
175							8.8	146.1	7,800	175
176							5.8	138.3	7,700	176
180										180
185										185
186										186
190										190
195										195
196										196

MLC150-1 S-1

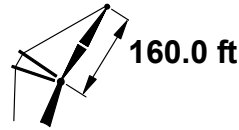
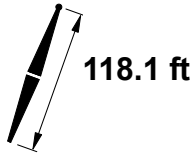
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
52										52
55										55
60										60
65										65
70										70
75										75
80										80
83										83
85										85
90										90
95										95
100										100
105	63.0	254.3	16,000							105
110	60.8	251.7	14,900							110
115	58.6	248.7	13,900							115
120	56.3	245.6	13,000							120
125	54.0	242.1	12,200							125
127	52.2	240.6	11,900	57.6	244.1	10,000				127
130	51.6	238.3	11,400	56.2	242.1	9,600				130
135	49.1	234.1	10,700	53.9	238.6	8,900				135
140	46.5	229.6	10,100	51.5	234.8	8,300				140
145	43.8	224.6	9,500	49.0	230.7	7,700				145
147	42.2	222.4	9,200	47.8	228.8	7,500	52.7	232.6	5,500	147
150	41.0	219.2	8,900	46.4	226.1	7,200	51.2	230.3	5,200	150
155	38.0	213.1	8,400	43.7	221.1	6,700	48.7	226.1	4,800	155
160	34.8	206.3	7,900	40.9	215.6	6,200	46.1	221.5	4,400	160
162	32.8	203.2	7,700	38.8	213.2	6,000	44.8	219.4	4,200	162
165	31.3	198.6	7,400	37.9	209.5	5,800	43.4	216.4	4,000	165
170	27.4	189.7	7,000	34.6	202.7	5,300	40.6	210.9	3,600	170
175	22.9	179.1	6,500	31.1	195.0	4,900	37.5	204.7	3,300	175
176	21.0	176.3	6,500	30.2	193.2	4,900				176
180	17.3	165.4	6,100	27.2	186.0	4,500				180
185	8.9	143.9	5,700	22.7	175.3	4,200				185
186	5.9	136.2	5,600	21.0	172.5	4,100				186
190				17.1	161.4	3,800				190
195				8.4	139.2	3,400				195
196				5.1	130.8	3,300				196

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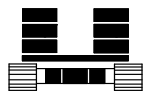
ASME B30.5



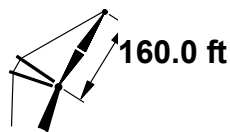
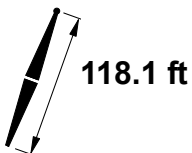
	87°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
54	74.9	279.6	34,700 b							54
55	74.6	279.3	34,400 b							55
60	72.7	277.8	34,100							60
65	70.8	276.2	33,300							65
70	68.9	274.4	32,500							70
73	66.8	273.1	31,900	70.9	275.4	32,400				73
75	67.0	272.3	31,500	70.1	274.7	31,200				75
80	65.0	270.1	30,500	68.2	272.8	28,600				80
85	63.0	267.7	28,800	66.3	270.7	26,300				85
87	62.2	266.6	27,900	65.2	269.8	25,500	67.9	271.4	23,600	87
90	61.0	265.0	26,600	64.3	268.4	24,300	66.7	270.1	22,500	90
95	58.9	262.1	24,700	62.3	265.9	22,500	64.8	267.9	20,900	95
100	56.8	259.0	23,000	60.3	263.1	20,900	62.8	265.4	19,400	100
105	54.7	255.6	21,500	58.2	260.2	19,500	60.7	262.7	18,000	105
110	52.4	251.9	20,100	56.1	256.9	18,200	58.7	259.8	16,800	110
115	50.1	247.9	18,800	53.9	253.4	17,100	56.5	256.6	15,700	115
120	47.8	243.5	17,700	51.6	249.6	16,000	54.4	253.2	14,700	120
125	45.3	238.8	16,700	49.3	245.5	15,000	52.1	249.5	13,800	125
130	42.7	233.6	15,700	46.9	241.0	14,100	49.8	245.4	13,000	130
132	41.2	231.3	15,300	45.2	239.0	13,800	48.2	243.6	12,700	132
135	40.0	227.9	14,800	44.4	236.1	13,300	47.4	241.0	12,200	135
140	37.1	221.7	14,000	41.8	230.8	12,600	45.0	236.2	11,500	140
145	34.1	214.7	13,200	39.0	224.9	11,900	42.4	231.0	10,800	145
150	30.7	206.8	12,500	36.1	218.4	11,200	39.6	225.2	10,200	150
155	27.0	197.7	11,800	32.9	211.1	10,600	36.7	218.9	9,600	155
160	22.7	186.9	11,200	29.4	202.8	10,000	33.6	211.8	9,100	160
165	17.5	173.3	10,600	25.6	193.2	9,400	30.2	203.7	8,600	165
170	10.0	152.9	10,000	21.0	181.6	8,900	26.5	194.5	8,100	170
172	4.2	136.9	9,800	18.6	175.5	8,700	24.4	190.0	7,900	172
175				15.3	166.4	8,400	22.1	183.4	7,600	175
180				5.2	138.7	7,900	16.7	169.2	7,200	180
185							8.5	146.9	6,700	185
186							5.6	138.8	6,600	186
190										190
195										195
196										196

MLC150-1 S-1

ASME B30.5



75,200 lb
+
0 lb



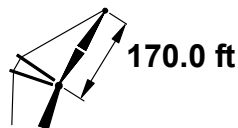
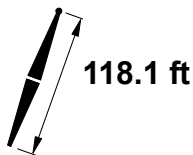
	75°			70°			
	ft	ft	lb	ft	ft	lb	
54							54
55							55
60							60
65							65
70							70
73							73
75							75
80							80
85							85
87							87
90							90
95							95
100							100
105							105
110	62.8	263.0	14,500				110
115	60.7	260.3	13,500				115
120	58.7	257.4	12,600				120
125	56.6	254.2	11,800				125
130	54.4	250.8	11,100				130
132	53.2	249.3	10,800	57.7	252.7	8,800	132
135	52.1	247.1	10,400	56.5	250.8	8,400	135
140	49.8	243.0	9,700	54.3	247.4	7,800	140
145	47.5	238.6	9,100	52.0	243.6	7,200	145
150	45.0	233.8	8,600	49.7	239.5	6,700	150
155	42.4	228.6	8,000	47.4	235.1	6,200	155
160	39.7	222.8	7,600	44.9	230.3	5,700	160
165	36.8	216.5	7,100	42.3	225.1	5,300	165
170	33.7	209.4	6,700	39.5	219.3	4,900	170
172	31.8	206.2	6,500	37.8	216.7	4,700	172
175	30.3	201.4	6,200	36.6	212.9	4,500	175
180	26.5	192.1	5,800	33.5	205.8	4,100	180
185	22.2	181.1	5,400	30.1	197.7	3,700	185
186	20.8	178.2	5,300	29.2	195.8	3,700	186
190	16.8	166.9	5,000	26.3	188.4	3,400	190
195	8.6	144.7	4,600	21.9	177.2	3,000	195
196	5.8	136.8	4,500				196

MLC150-1 S-1

ASME B30.5



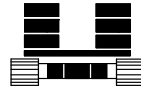
75,200 lb
+
0 lb



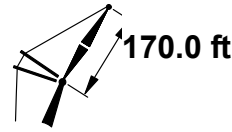
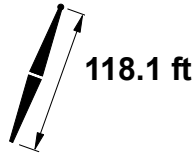
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
57	74.8	289.1	30,600							57
60	73.8	288.3	30,200							60
65	72.0	286.7	30,100							65
70	70.2	285.0	29,300							70
75	68.4	283.1	28,900							75
77	67.2	282.3	28,600	70.6	284.6	28,400				77
80	66.6	281.1	28,100	69.6	283.5	28,200				80
85	64.7	278.8	27,300	67.8	281.5	26,100				85
90	62.9	276.3	26,400	65.9	279.4	24,000				90
91	61.6	275.8	26,000	64.8	278.9	23,700	67.8	280.6	21,900	91
95	60.9	273.7	24,500	64.1	277.1	22,300	66.3	278.9	20,600	95
100	59.0	270.8	22,800	62.2	274.5	20,700	64.5	276.6	19,100	100
105	57.0	267.7	21,300	60.3	271.8	19,300	62.6	274.1	17,800	105
110	55.0	264.3	19,900	58.3	268.8	18,000	60.7	271.4	16,600	110
114	52.4	261.4	18,900	56.4	266.3	17,100	58.4	269.1	15,700	114
115	52.9	260.7	18,600	56.3	265.6	16,800	58.7	268.5	15,500	115
120	50.8	256.7	17,500	54.2	262.1	15,800	56.7	265.3	14,500	120
125	48.5	252.5	16,400	52.1	258.4	14,800	54.7	261.9	13,600	125
130	46.3	247.9	15,500	50.0	254.4	13,900	52.6	258.2	12,700	130
135	43.9	242.9	14,600	47.7	250.0	13,100	50.5	254.3	12,000	135
137	42.2	240.7	14,300	46.2	248.1	12,800	49.2	252.5	11,700	137
140	41.4	237.4	13,800	45.4	245.3	12,300	48.2	250.0	11,300	140
145	38.8	231.5	13,000	43.0	240.1	11,600	45.9	245.3	10,600	145
150	36.0	225.0	12,300	40.5	234.5	11,000	43.5	240.3	10,000	150
155	33.0	217.7	11,700	37.8	228.4	10,400	41.0	234.8	9,400	155
160	29.8	209.5	11,000	35.0	221.6	9,800	38.4	228.8	8,900	160
165	26.2	200.1	10,500	31.9	214.0	9,300	35.6	222.1	8,400	165
170	22.1	188.9	9,900	28.5	205.4	8,700	32.6	214.7	7,900	170
175	17.0	174.8	9,400	24.8	195.5	8,300	29.3	206.4	7,400	175
180	9.7	153.8	8,800	20.4	183.4	7,800	25.7	196.8	7,000	180
182	4.1	137.3	8,600	17.6	177.1	7,600	23.4	192.2	6,800	182
185				14.8	167.7	7,300	21.4	185.3	6,600	185
190				5.0	139.1	6,900	16.2	170.6	6,200	190
195							8.3	147.6	5,800	195
196							5.4	139.3	5,700	196
200										200
205										205
206										206

MLC150-1 S-1

ASME B30.5



75,200 lb
+
0 lb



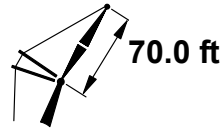
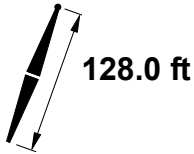
	75°			70°			
	ft	ft	lb	ft	ft	lb	
57							57
60							60
65							65
70							70
75							75
77							77
80							80
85							85
90							90
91							91
95							95
100							100
105							105
110							110
114	63.0	272.2	13,500				114
115	62.6	271.7	13,300				115
120	60.7	269.0	12,400				120
125	58.8	266.1	11,600				125
130	56.8	262.9	10,800				130
135	54.7	259.5	10,100				135
137	53.2	258.0	9,900	57.9	261.4	7,800	137
140	52.6	255.8	9,500	56.7	259.5	7,400	140
145	50.5	251.9	8,900	54.6	256.1	6,800	145
150	48.3	247.6	8,300	52.5	252.4	6,300	150
155	46.0	242.9	7,800	50.4	248.4	5,800	155
160	43.6	237.9	7,300	48.2	244.1	5,400	160
165	41.1	232.4	6,800	45.9	239.4	4,900	165
170	38.4	226.4	6,300	43.5	234.4	4,500	170
175	35.6	219.7	5,900	40.9	228.9	4,100	175
180	32.6	212.4	5,500	38.3	222.8	3,700	180
182	30.8	209.0	5,300	36.8	220.1	3,600	182
185	29.3	204.0	5,100	35.5	216.2	3,400	185
190	25.7	194.4	4,700	32.5	208.7	3,100	190
195	21.5	183.0	4,300				195
196	20.0	180.1	4,200				196
200	16.3	168.4	3,900				200
205	8.4	145.4	3,600				205
206	5.6	137.3	3,500				206

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ASME B30.5



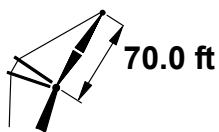
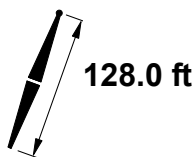
75,200 lb
+
0 lb



	86°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
35	73.6	201.9	84,500 d							35
36	72.7	201.6	84,500 d							36
38	71.0	200.9	84,500 d							38
40	69.2	200.2	80,000 d							40
42	67.5	199.4	74,900 c							42
44	65.7	198.5	70,400 c							44
45	64.0	198.0	68,300 c	70.7	200.0	64,300 d				45
46	63.9	197.6	66,300 c	69.8	199.7	62,500 d				46
48	62.0	196.6	62,700 c	68.1	198.9	59,100 c				48
50	60.2	195.5	59,400 c	66.3	198.1	56,000 c				50
55	55.3	192.3	52,500 b	61.7	195.6	49,400 c	67.7	197.6	46,300 c	55
60	50.2	188.5	46,900 b	57.0	192.7	44,100 b	63.2	195.4	41,400 c	60
65	44.6	183.9	42,300	52.0	189.1	39,800 b	58.6	192.6	37,300 b	65
70	38.5	178.3	38,400	46.5	184.8	36,100 b	53.6	189.2	33,900 b	70
72	35.2	175.4	37,100	43.6	182.7	34,900 b	51.0	187.6	32,700 b	72
75	31.3	171.1	35,100	40.6	179.5	33,000	48.3	185.2	30,900 b	75
80	22.2	161.2	32,200	33.8	172.9	30,300	42.6	180.2	28,400	80
85	4.2	139.8	29,500	25.6	164.2	28,000	36.2	174.1	26,200	85
88				17.8	155.7	26,700	31.2	169.4	25,000	88
90				13.2	150.0	25,800	28.5	166.2	24,300	90
91				9.0	144.9	25,400	26.0	163.9	23,900	91
95							18.1	154.6	22,500	95
98							6.7	141.0	21,400	98
100										100
103										103
105										105
109										109
110										110
115										115
119										119
120										120
125										125
130										130

MLC150-1 S-1

ASME B30.5



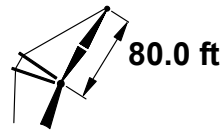
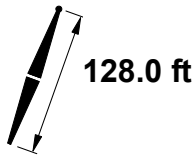
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
35										35
36										36
38										38
40										40
42										42
44										44
45										45
46										46
48										48
50										50
55										55
60										60
65										65
70										70
72	62.2	192.2	29,000 c							72
75	59.4	190.5	27,500 b							75
80	54.5	187.2	25,200 b							80
85	49.3	183.3	23,300 b							85
88	45.4	180.5	22,200 b	57.1	185.5	19,400 b				88
90	43.7	178.6	21,500	55.1	184.1	18,800 b				90
91	41.8	177.4	21,200	53.8	183.3	18,500 b				91
95	37.4	172.7	20,000	50.0	180.3	17,400 b				95
98	32.2	168.2	19,100	46.0	177.5	16,700 b				98
100	30.0	165.2	18,600	44.4	175.6	16,200 b				100
103	23.6	158.8	17,800	40.4	172.2	15,500 b	52.3	177.6	13,300 b	103
105	20.3	154.5	17,300	38.2	169.9	15,100	50.2	176.0	12,900 b	105
109	5.7	137.2	16,200	31.6	164.1	14,300	45.2	172.4	12,200 b	109
110				30.9	162.7	14,100	44.7	171.4	12,000 b	110
115				21.7	152.6	13,100	38.5	165.8	11,200	115
119				9.5	138.2	12,300	32.4	160.1	10,600	119
120							31.3	158.6	10,400	120
125							22.3	148.7	9,700	125
130							4.5	127.7	8,900	130

MLC150-1 S-1

ASME B30.5



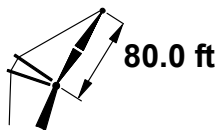
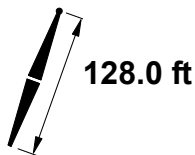
75,200 lb
+
0 lb



ft	86°			83°			80°			ft
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
38	73.4	211.4	77,900 d							38
40	71.9	210.8	77,900 d							40
42	70.4	210.1	74,600 c							42
44	68.9	209.4	70,100 c							44
46	67.3	208.6	66,000 c							46
48	65.8	207.7	62,400 c	70.9	209.6	58,700 c				48
50	64.2	206.8	59,100 c	69.4	208.9	55,600 c				50
55	60.2	204.1	52,200 b	65.5	206.8	49,100 c				55
59	56.0	201.6	47,700 b	61.8	204.8	44,800 c	67.6	206.8	41,900 c	59
60	55.9	201.0	46,600 b	61.5	204.3	43,800 b	66.8	206.4	41,000 c	60
65	51.5	197.3	42,000	57.4	201.3	39,500 b	62.8	204.0	36,900 b	65
70	46.8	193.0	38,200	53.0	197.9	35,800 b	58.7	201.2	33,500 b	70
75	41.6	187.9	34,900	48.4	193.8	32,700	54.4	197.9	30,600 b	75
76	39.8	186.6	34,300	47.0	192.8	32,200	53.0	197.2	30,100 b	76
80	35.9	181.6	32,100	43.4	188.9	30,100	49.9	194.1	28,100	80
85	29.2	173.8	29,600	37.9	183.1	27,800	45.0	189.5	25,900	85
90	20.7	163.1	27,400	31.6	175.9	25,700	39.7	184.0	24,000	90
93	9.8	149.3	26,100	26.2	170.2	24,600	35.4	180.0	23,000	93
95	3.9	140.2	25,300	23.9	166.4	23,900	33.7	177.3	22,300	95
100				12.4	151.1	22,200	26.6	168.7	20,700	100
101				8.4	145.6	21,800	24.0	166.2	20,500	101
105							17.0	156.2	19,300	105
108							6.3	141.6	18,400	108
109										109
110										110
115										115
119										119
120										120
125										125
129										129
130										130
135										135
140										140

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ASME B30.5



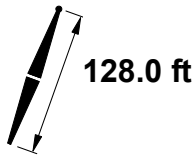
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
38										38
40										40
42										42
44										44
46										46
48										48
50										50
55										55
59										59
60										60
65										65
70										70
75										75
76	62.7	201.4	26,600 b							76
80	59.5	199.1	24,800 b							80
85	55.2	195.9	22,900 b							85
90	50.7	192.2	21,200							90
93	47.0	189.5	20,200	57.5	194.1	17,500 b				93
95	45.9	187.7	19,600	55.7	192.8	17,000 b				95
100	40.7	182.4	18,300	51.3	189.1	15,800				100
101	38.8	181.1	18,000	50.0	188.2	15,600				101
105	34.9	176.0	17,000	46.5	184.8	14,700				105
108	29.8	171.0	16,400	43.0	181.6	14,100				108
109	28.4	169.4	16,100	42.0	180.6	13,900	52.4	185.6	11,700 b	109
110	28.0	167.8	15,900	41.4	179.6	13,700	51.5	184.9	11,600	110
115	19.0	156.3	14,800	35.6	173.3	12,800	46.8	180.5	10,800	115
119	5.4	137.7	14,000	29.4	166.9	12,100	42.0	176.4	10,200	119
120				28.9	165.4	12,000	41.6	175.4	10,100	120
125				20.3	154.4	11,200	35.9	169.2	9,400	125
129				8.9	139.0	10,500	30.2	162.9	8,900	129
130							29.3	161.4	8,800	130
135							20.8	150.6	8,100	135
140							4.2	128.1	7,500	140

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ASME B30.5



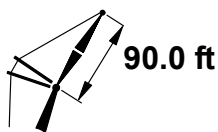
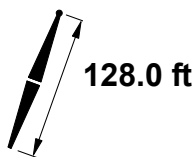
75,200 lb
+
0 lb



	86°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
40	74.0	221.2	71,400 d							40
42	72.7	220.6	71,300 c							42
44	71.3	220.0	69,900 c							44
46	70.0	219.3	65,800 c							46
48	68.6	218.5	62,200 c							48
50	67.2	217.7	58,900 c							50
52	65.4	216.8	56,100 c	70.4	218.8	52,600 c				52
55	63.7	215.4	52,000 b	68.4	217.6	48,800 c				55
60	60.1	212.8	46,400 b	64.9	215.5	43,600 b				60
63	57.6	210.9	43,700 b	62.2	214.0	41,000 b	67.4	216.0	38,200 c	63
65	56.4	209.7	41,800	61.4	213.0	39,200 b	66.1	215.1	36,700 b	65
70	52.5	206.1	38,000	57.7	210.0	35,600 b	62.5	212.7	33,300 b	70
75	48.4	202.0	34,700	53.8	206.6	32,600	58.9	209.9	30,400 b	75
80	43.9	197.2	31,900	49.8	202.7	29,900	55.1	206.6	27,900	80
81	42.2	196.0	31,400	48.2	201.7	29,400	54.2	205.9	27,500	81
85	39.1	191.5	29,500	45.4	198.1	27,600	51.1	202.9	25,700	85
90	33.8	184.8	27,300	40.8	192.8	25,600	46.9	198.5	23,800	90
95	27.5	176.3	25,400	35.6	186.4	23,800	42.3	193.5	22,100	95
98	22.2	169.4	24,300	31.4	181.7	22,800	39.0	189.9	21,200	98
100	19.5	164.8	23,600	29.7	178.6	22,100	37.4	187.5	20,600	100
105	3.7	140.5	22,000	22.5	168.4	20,700	31.8	180.2	19,300	105
110				11.7	152.1	19,300	25.1	171.0	18,000	110
111				7.9	146.3	19,000	23.0	168.3	17,800	111
115							16.0	157.6	16,800	115
118							5.9	142.1	16,100	118
120										120
125										125
129										129
130										130
135										135
139										139
140										140
145										145
150										150

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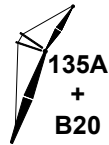
ASME B30.5



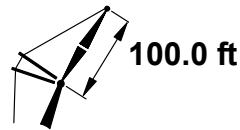
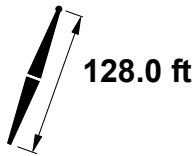
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft		
40									40	
42									42	
44									44	
46									46	
48									48	
50									50	
52									52	
55									55	
60									60	
63									63	
65									65	
70									70	
75									75	
80									80	
81	62.4	210.0	24,200 b						81	
85	59.5	207.8	22,600 b						85	
90	55.8	204.6	20,900						90	
95	51.8	201.0	19,400						95	
98	48.6	198.4	18,600	57.7	202.8	16,000 b			98	
100	47.6	196.7	18,100	56.2	201.5	15,500			100	
105	43.2	191.8	16,900	52.3	197.9	14,500			105	
110	38.3	186.0	15,700	48.2	193.7	13,500			110	
111	36.8	184.6	15,500	47.0	192.8	13,300			111	
115	32.8	179.0	14,700	43.7	188.9	12,600	52.5	193.6	10,500	
118	28.4	173.7	14,200	40.0	185.5	12,100	49.6	191.2	10,100	
120	26.4	170.2	13,800	38.9	183.2	11,800	48.4	189.5	9,800	
125	17.9	157.9	12,900	33.5	176.4	11,000	44.0	184.7	9,200	
129	5.1	138.2	12,200	28.2	169.5	10,500	39.8	180.2	8,700	
130				27.2	167.8	10,300	39.2	179.1	8,600	
135				19.1	156.2	9,700	33.8	172.3	8,000	
139				8.4	139.8	9,100	28.2	165.6	7,500	
140							27.6	163.9	7,400	
145							19.6	152.4	6,800	
150							4.0	128.5	6,200	

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ASME B30.5



75,200 lb
+
0 lb



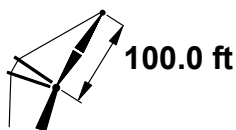
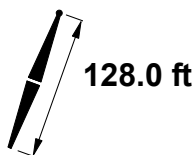
	86°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
43	73.9	230.8	65,700 c							43
44	73.3	230.5	65,600 c							44
46	72.1	229.9	65,100 c							46
48	70.8	229.2	61,900 c							48
50	69.6	228.5	58,600 c							50
55	66.5	226.5	51,700 b	70.6	228.3	48,500 c				55
60	63.4	224.1	46,100 b	67.6	226.4	43,200 b				60
65	60.1	221.4	41,500	64.4	224.2	38,900 b				65
66	59.2	220.8	40,800	63.4	223.7	38,200 b	68.0	225.6	35,600 b	66
70	56.8	218.4	37,700	61.2	221.6	35,300	65.5	223.8	32,900 b	70
75	53.3	214.9	34,500	57.9	218.7	32,200	62.3	221.4	30,000 b	75
80	49.6	210.9	31,700	54.5	215.3	29,600	59.0	218.6	27,500	80
85	45.7	206.3	29,200	50.8	211.5	27,300	55.6	215.4	25,400	85
90	41.6	201.1	27,100	47.0	207.2	25,300	52.0	211.7	23,500	90
95	37.1	195.0	25,200	43.0	202.2	23,500	48.3	207.5	21,800	95
100	32.0	187.7	23,500	38.6	196.4	21,900	44.3	202.7	20,300	100
103	28.0	182.3	22,500	35.0	192.3	21,000	41.6	199.4	19,500	103
105	26.1	178.7	21,900	33.8	189.5	20,400	40.1	197.2	19,000	105
110	18.5	166.5	20,500	28.2	181.2	19,100	35.4	190.8	17,700	110
115	3.5	140.8	19,100	21.3	170.4	17,900	30.1	183.0	16,600	115
120				11.1	153.1	16,800	23.8	173.1	15,600	120
121				7.5	147.0	16,500	21.4	170.3	15,400	121
125							15.2	159.0	14,600	125
128							5.6	142.6	14,000	128
130										130
135										135
139										139
140										140
145										145
149										149
150										150
155										155
160										160

MLC150-1 S-1

ASME B30.5



75,200 lb
+
0 lb



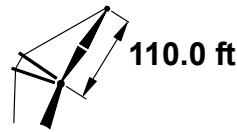
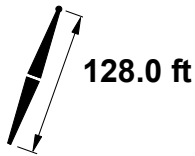
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft		
43									43	
44									44	
46									46	
48									48	
50									50	
55									55	
60									60	
65									65	
66									66	
70									70	
75									75	
80									80	
85	62.8	219.2	22,200 b						85	
90	59.6	216.5	20,500						90	
95	56.2	213.3	19,000						95	
100	52.7	209.8	17,700						100	
103	49.6	207.3	17,000	58.0	211.5	14,500			103	
105	49.0	205.7	16,500	56.6	210.2	14,100			105	
110	45.1	201.0	15,400	53.1	206.7	13,100			110	
115	40.8	195.6	14,400	49.4	202.7	12,200			115	
120	36.3	189.4	13,500	45.5	198.1	11,400			120	
121	35.0	187.9	13,300	44.2	197.0	11,300	52.6	201.6	9,200	121
125	31.1	181.9	12,700	41.4	192.8	10,700	49.6	198.4	8,600	125
128	26.8	176.2	12,200	38.0	189.1	10,300	46.6	195.7	8,300	128
130	25.0	172.5	11,900	36.8	186.6	10,000	45.8	193.9	8,000	130
135	17.0	159.4	11,100	31.7	179.3	9,400	41.6	188.6	7,400	135
139	4.8	138.6	10,500	26.2	172.0	8,900	37.8	183.7	7,000	139
140				25.8	170.2	8,800	37.1	182.5	6,900	140
145				18.1	157.8	8,200	32.0	175.3	6,300	145
149				7.9	140.5	7,700	27.2	168.1	5,900	149
150							26.1	166.3	5,800	150
155							18.6	154.1	5,400	155
160							3.8	128.8	4,800	160

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ASME B30.5



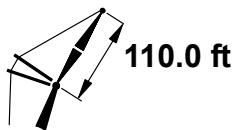
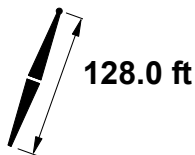
75,200 lb
+
0 lb



	86°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
46	73.7	240.3	50,800 c							46
48	72.6	239.7	50,400 c							48
50	71.6	239.1	50,000 b							50
55	68.8	237.3	49,100 b							55
58	66.2	236.0	47,300 b	70.8	237.9	45,100 b				58
60	66.0	235.2	46,000 b	69.7	237.1	43,100 b				60
65	63.1	232.8	41,400	66.9	235.2	38,800 b				65
70	60.1	230.1	37,600	64.0	232.9	35,200	67.8	234.7	32,800 b	70
75	57.1	227.0	34,400	61.1	230.3	32,100	65.0	232.5	29,900 b	75
80	53.9	223.6	31,600	58.1	227.3	29,500	62.1	230.0	27,400	80
85	50.6	219.7	29,200	55.0	224.0	27,200	59.1	227.2	25,300	85
90	47.2	215.4	27,000	51.7	220.3	25,200	56.0	224.0	23,400	90
95	43.5	210.4	25,100	48.3	216.1	23,400	52.8	220.5	21,700	95
100	39.6	204.8	23,400	44.7	211.4	21,900	49.4	216.4	20,300	100
105	35.3	198.2	21,900	40.9	206.0	20,400	45.9	211.9	18,900	105
109	31.0	192.0	20,800	36.8	201.0	19,400	42.6	207.7	18,000	109
110	30.5	190.5	20,600	36.7	199.8	19,100	42.2	206.7	17,700	110
115	24.9	181.0	19,300	32.1	192.5	18,000	38.1	200.8	16,600	115
120	17.7	168.1	18,100	26.8	183.6	16,900	33.7	193.9	15,600	120
125	3.3	141.1	17,000	20.3	172.2	15,900	28.7	185.6	14,700	125
127				16.0	164.9	15,500	25.6	181.4	14,300	127
130				10.5	154.1	14,900	22.6	175.2	13,800	130
131				7.1	147.6	14,700	20.4	172.2	13,600	131
135							14.4	160.3	13,000	135
138							5.3	143.1	12,500	138
140										140
145										145
149										149
150										150
155										155
159										159
160										160
165										165
170										170

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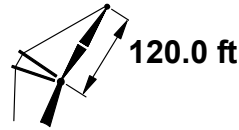
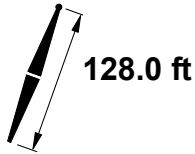
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft		
46									46	
48									48	
50									50	
55									55	
58									58	
60									60	
65									65	
70									70	
75									75	
80									80	
85									85	
90	62.6	227.9	20,400						90	
95	59.6	225.1	19,000						95	
100	56.5	222.0	17,600						100	
105	53.4	218.5	16,400						105	
109	50.6	215.3	15,600	57.5	219.5	13,200			109	
110	50.0	214.6	15,400	56.9	218.9	13,000			110	
115	46.6	210.1	14,400	53.8	215.4	12,200			115	
120	42.9	205.1	13,500	50.5	211.5	11,400			120	
125	38.9	199.3	12,600	47.0	207.1	10,700			125	
127	36.4	196.6	12,300	44.8	205.1	10,400	52.6	209.6	8,300	127
130	34.5	192.6	11,900	43.3	202.2	10,000	50.6	207.3	7,900	130
131	33.0	191.0	11,700	42.2	201.0	9,900	49.4	206.4	7,800	131
135	29.6	184.6	11,200	39.4	196.5	9,400	47.2	202.9	7,300	135
138	25.4	178.6	10,800	36.6	192.5	9,000	44.6	199.9	7,000	138
140	23.8	174.6	10,500	35.1	189.9	8,800	43.5	198.0	6,800	140
145	16.2	160.9	9,900	30.2	182.1	8,200	39.6	192.3	6,300	145
149	4.6	139.0	9,300	25.2	174.4	7,800	35.8	187.1	5,900	149
150				24.6	172.4	7,700	35.3	185.8	5,800	150
155				17.3	159.4	7,200	30.5	178.1	5,400	155
159				7.6	141.2	6,800	25.2	170.4	5,000	159
160							24.9	168.5	4,900	160
165							17.7	155.7	4,500	165
170							3.6	129.1	4,000	170

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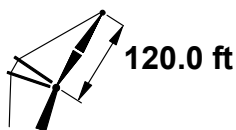
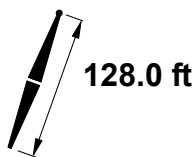
75,200 lb
+
0 lb



	86°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
49	73.6	249.9	47,400 c							49
50	73.1	249.6	47,200 b							50
55	70.6	247.9	46,400 b							55
60	68.1	246.0	45,700 b							60
61	67.4	245.6	44,800 b	71.0	247.4	41,800 b				61
65	65.5	243.9	41,200	68.9	245.9	38,500 b				65
70	62.8	241.5	37,300	66.4	243.9	34,900				70
74	60.4	239.3	34,700	63.6	242.0	32,400	67.7	243.9	30,100 b	74
75	60.1	238.8	34,100	63.7	241.6	31,800	67.2	243.5	29,600	75
80	57.3	235.7	31,300	61.0	238.9	29,200	64.6	241.2	27,100	80
85	54.4	232.3	28,900	58.3	236.0	26,900	61.9	238.7	25,000	85
90	51.4	228.5	26,800	55.4	232.7	24,900	59.2	235.9	23,100	90
94	48.6	225.2	25,200	52.6	229.8	23,500	56.6	233.4	21,700	94
95	48.3	224.3	24,900	52.4	229.1	23,100	56.3	232.7	21,400	95
100	45.0	219.6	23,200	49.4	225.0	21,600	53.4	229.2	19,900	100
105	41.5	214.3	21,700	46.1	220.5	20,100	50.4	225.3	18,600	105
110	37.8	208.3	20,300	42.7	215.4	18,900	47.2	220.9	17,400	110
114	33.8	202.7	19,300	39.6	210.8	17,900	43.8	217.0	16,500	114
115	33.7	201.3	19,100	39.1	209.6	17,700	43.9	216.0	16,300	115
120	29.1	193.2	17,900	35.1	203.0	16,600	40.3	210.5	15,300	120
125	23.8	183.1	16,900	30.7	195.3	15,600	36.5	204.2	14,400	125
130	16.9	169.6	15,900	25.7	186.0	14,700	32.2	196.8	13,500	130
133	8.2	152.7	15,300	21.4	178.8	14,200	29.0	191.6	13,100	133
135	3.2	141.4	14,900	19.5	173.9	13,900	27.4	188.1	12,800	135
140				10.1	155.0	13,000	21.7	177.2	12,000	140
141				6.8	148.3	12,900	19.4	174.0	11,900	141
145							13.8	161.5	11,300	145
148							5.1	143.5	10,800	148
150										150
155										155
159										159
160										160
165										165
169										169
170										170
175										175

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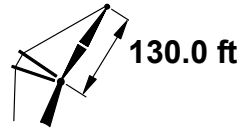
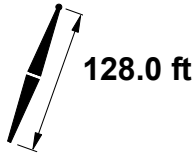
	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
49										49
50										50
55										55
60										60
61										61
65										65
70										70
74										74
75										75
80										80
85										85
90										90
94	62.9	237.1	18,900							94
95	62.4	236.6	18,600							95
100	59.6	233.8	17,200							100
105	56.8	230.7	16,100							105
110	53.9	227.2	15,000							110
114	50.6	224.2	14,200	57.8	228.2	11,900				114
115	50.9	223.4	14,000	57.2	227.5	11,800				115
120	47.8	219.1	13,100	54.3	224.1	11,000				120
125	44.5	214.3	12,300	51.3	220.3	10,300				125
130	40.9	208.9	11,600	48.2	216.1	9,600				130
133	38.2	205.2	11,100	45.6	213.3	9,200	52.7	217.6	7,000	133
135	37.2	202.7	10,900	44.9	211.4	9,000	51.5	216.1	6,700	135
140	33.0	195.6	10,200	41.4	206.0	8,400	48.3	211.9	6,200	140
141	31.2	193.9	10,100	40.2	204.8	8,300	47.4	210.9	6,100	141
145	28.3	187.2	9,600	37.6	200.0	7,900	45.1	207.2	5,700	145
148	24.4	180.9	9,300	34.6	195.8	7,600	42.6	204.0	5,500	148
150	22.8	176.7	9,000	33.5	193.0	7,400	41.6	201.9	5,300	150
155	15.5	162.3	8,500	28.9	184.7	6,900	37.8	195.8	4,800	155
159	4.4	139.4	8,000	24.0	176.6	6,500	33.8	190.3	4,500	159
160				23.5	174.6	6,400	33.7	188.9	4,400	160
165				16.5	160.8	5,900	29.2	180.7	4,000	165
169				7.3	141.8	5,500	24.2	172.7	3,700	169
170							23.8	170.7	3,700	170
175							17.0	157.2	3,300	175

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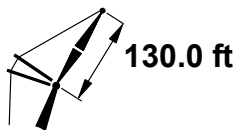
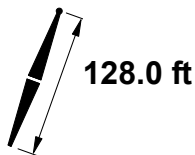
75,200 lb
+
0 lb



	86°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft		
52	73.6	259.4	44,100 b						52	
55	72.2	258.5	43,700 b						55	
60	69.8	256.8	43,000 b						60	
65	67.5	254.8	40,900	70.6	256.6	38,200 b			65	
70	65.1	252.6	37,100	68.3	254.7	34,600			70	
75	62.6	250.1	33,900	65.9	252.6	31,600			75	
78	60.8	248.5	32,200	63.8	251.2	30,000	67.6	253.1	27,800	78
80	60.1	247.4	31,100	63.4	250.2	29,000	66.7	252.2	26,800	80
85	57.5	244.4	28,700	60.9	247.6	26,700	64.2	249.9	24,700	85
90	54.9	241.0	26,500	58.4	244.7	24,700	61.8	247.4	22,800	90
95	52.1	237.3	24,700	55.8	241.4	22,900	59.2	244.5	21,200	95
99	49.6	234.1	23,300	53.4	238.6	21,700	56.6	242.0	20,000	99
100	49.3	233.2	23,000	53.1	237.9	21,300	56.6	241.4	19,700	100
105	46.3	228.7	21,500	50.2	233.9	19,900	53.9	237.9	18,400	105
110	43.2	223.7	20,100	47.3	229.5	18,600	51.2	234.1	17,200	110
115	39.8	218.0	18,900	44.2	224.7	17,500	48.3	229.9	16,100	115
119	36.6	212.9	18,000	40.8	220.3	16,600	45.6	226.1	15,300	119
120	36.3	211.6	17,800	41.0	219.2	16,400	45.3	225.2	15,100	120
125	32.4	204.3	16,700	37.5	213.1	15,500	42.1	219.9	14,200	125
130	28.0	195.7	15,800	33.7	206.1	14,600	38.7	214.1	13,300	130
135	22.8	185.2	14,900	29.5	198.0	13,700	35.0	207.4	12,600	135
139	17.2	173.9	14,200	25.0	190.2	13,100	30.8	201.2	12,000	139
140	16.2	171.1	14,000	24.7	188.2	13,000	30.9	199.7	11,800	140
145	3.1	141.7	13,200	18.7	175.6	12,200	26.3	190.5	11,200	145
150				9.7	155.8	11,500	20.8	179.0	10,500	150
151				6.6	148.8	11,400	18.6	175.8	10,400	151
155							13.3	162.7	9,900	155
158							4.9	144.0	9,500	158
160										160
165										165
169										169
170										170
175										175
179										179

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ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	
52										52
55										55
60										60
65										65
70										70
75										75
78										78
80										80
85										85
90										90
95										95
99	62.7	245.8	17,200							99
100	62.2	245.2	17,000							100
105	59.7	242.5	15,800							105
110	57.1	239.4	14,700							110
115	54.4	236.0	13,800							115
119	51.6	233.0	13,100	57.9	236.8	10,900				119
120	51.7	232.2	12,900	57.4	236.2	10,700				120
125	48.8	228.0	12,100	54.7	232.9	10,000				125
130	45.8	223.4	11,300	52.0	229.1	9,400				130
135	42.6	218.3	10,600	49.1	225.0	8,700				135
139	39.6	213.7	10,100	46.6	221.4	8,200	52.7	225.6	5,900	139
140	39.3	212.5	10,000	46.2	220.5	8,100	52.1	224.9	5,800	140
145	35.6	206.0	9,400	43.0	215.4	7,600	49.3	220.8	5,400	145
150	31.7	198.5	8,800	39.7	209.7	7,000	46.3	216.3	4,900	150
151	30.2	196.7	8,700	38.4	208.4	6,900	45.4	215.2	4,800	151
155	27.2	189.6	8,300	36.1	203.3	6,500	43.2	211.2	4,500	155
158	23.4	183.0	8,000	33.6	198.9	6,300	40.6	207.8	4,300	158
160	21.9	178.7	7,800	32.2	195.9	6,100	39.9	205.6	4,100	160
165	14.9	163.6	7,300	27.8	187.2	5,600	36.3	199.2	3,700	165
169	4.2	139.8	6,900	23.0	178.7	5,300	32.8	193.3	3,400	169
170				22.6	176.6	5,200	32.4	191.9	3,400	170
175				15.9	162.3	4,800	28.0	183.3	3,000	175
179				7.0	142.5	4,400				179