

Liftcrane Jib Capacities

Jib No. 134 on
 Boom No. B10:350
 110,500 lb Crane Counterweight
 35,000 lb Carbody Counterweight
 360 Degree Rating

MLC150-1 SERIES 2



LIFTING CAPACITIES: Chart supplements Boom Capacity charts **No. 9817-A and 9817-B**. Lifting capacities for various boom lengths, jib lengths, and 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 jib point sheaves is considered part of load. Boom and jib are not to be lowered beyond radii where combined weights are greater than rated capacity. Where no capacity is shown, operation is not intended or approved.

OPERATING CONDITIONS: Machine to operate on a firm, level, and uniformly supporting surface. Refer to Boom Rigging **No. 80117858**, Jib Rigging **No. 80117860**, Wire Rope Specifications chart **No. 9841-A**, Counterweight Arrangements chart **No. 9828-A**, and Wind Conditions chart **No. 9842-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 must be within boom angle range shown in capacity chart. Refer to Maximum Allowable Travel Specifications chart **No. 9840-A**.



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



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



JIB POINT ELEVATION: Jib point elevation is vertical distance from ground level to centerline of 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, 110,500 lb crane counterweight, and 35,000 lb carbody counterweight.

Refer to Tables 1 and 2 for raising ability with the maximum weight of all load blocks, hooks, weight ball, slings, and hoist lines beneath boom and jib point sheaves. For block weights shown with #, load blocks, hooks, weight ball, and slings must remain on ground until combined weights are within rated capacity of chart. Raising is not permitted in shaded areas of table.

Caution: Combined weight beneath boom and jib point sheaves must not exceed block weight shown. Total weight beneath jib point must not exceed 2,000 lb.

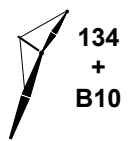
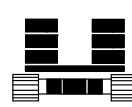
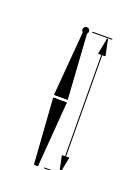
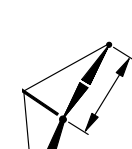
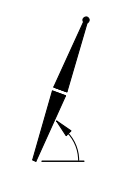
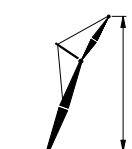
Table 1

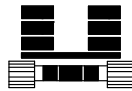
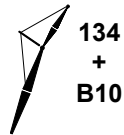
Over End or Side of Crawlers						
Boom Length (ft)	Jib No. 134					
	30.0 ft	40.0 ft	50.0 ft	60.0 ft	70.0 ft	80.0 ft
	Block Weight (lb)					
88.6 - 128.0	7,700	7,700	7,700	7,700	7,700	7,700
137.8	7,700	7,700	7,700	7,700	7,700	7,600
147.6	7,700	7,700	7,700	7,700	7,300	6,600
157.5	7,700	7,700	7,600	6,800	6,200	5,500
167.3	7,700	7,200	6,400	5,700	5,100	4,500
177.2	6,500	5,900	5,200	4,600	4,100	3,500
187.0	5,400	4,700	4,000	3,300	2,700	#
196.9	3,700	3,100	2,400	#	#	#
206.7	2,200	#	#	#	#	Raising Not Permitted
216.5	#	#				

Table 2

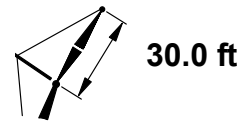
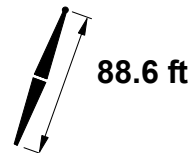
Over End of Blocked Crawlers						
Boom Length (ft)	Jib No. 134					
	30.0 ft	40.0 ft	50.0 ft	60.0 ft	70.0 ft	80.0 ft
	Block Weight (lb)					
88.6 - 128.0	7,700	7,700	7,700	7,700	7,700	7,700
137.8	7,700	7,700	7,700	7,700	7,700	7,600
147.6	7,700	7,700	7,700	7,700	7,300	6,600
157.5	7,700	7,700	7,600	6,800	6,200	5,500
167.3	7,700	7,200	6,400	5,700	5,100	4,500
177.2	6,500	5,900	5,200	4,600	4,100	3,500
187.0	5,400	4,800	4,200	3,500	3,100	3,000
196.9	4,300	3,600	3,000	3,000	3,000	2,000
206.7	3,000	3,000	3,000	2,000	2,000	#
216.5	2,000	2,000	2,000	#	#	#
Warning: Crane must remain in-line with crawlers when raising over end of blocked crawlers until operating radius is within 360 degree chart. Crane tipping or structural damage can occur.						

Explanation of Symbols

	Jib No. 134 + Boom No. B10:350
	Crane Counterweight + Carbody Counterweight
	360 Degree Rating
	Boom Length
	Jib Length
	Jib Offset Angle
	Operating Radius (see page 1)
	Boom Angle (see page 1)
	Jib Point Elevation (see page 1)
	Lifting Capacities (see page 1)



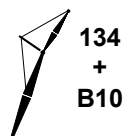
110,500 lb
+
35,000 lb



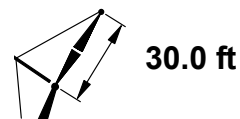
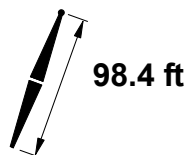
	5°			15°			25°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
30	79.0	124.9	59,200							30
32	78.0	124.4	59,200							32
34	77.0	123.9	59,200							34
36	76.0	123.4	59,200	78.5	122.6	58,700				36
38	75.0	122.8	59,200	77.5	122.0	58,300				38
40	74.0	122.2	59,200	76.5	121.4	57,800				40
41	73.5	121.9	59,200	75.5	121.0	57,600	78.6	119.2	41,400	41
42	73.0	121.5	59,200	75.5	120.7	57,400	78.0	118.9	40,900	42
44	72.0	120.9	59,200	74.5	120.0	57,000	77.0	118.2	39,900	44
46	71.0	120.1	59,200	73.5	119.3	56,600	76.0	117.4	39,000	46
48	70.0	119.4	59,100	72.5	118.5	56,200	74.9	116.7	38,100	48
50	69.0	118.6	58,500	71.4	117.7	55,800	73.9	115.8	37,300	50
55	66.4	116.4	57,400	68.8	115.5	54,400	71.2	113.6	35,400	55
60	63.8	113.9	56,200	66.2	113.0	51,000	68.5	111.1	33,700	60
65	61.0	111.1	53,800	63.4	110.2	48,000	65.7	108.2	32,200	65
70	58.2	108.0	48,700	60.6	107.1	45,400	62.8	105.0	30,900	70
75	55.4	104.6	44,400	57.7	103.6	43,100	59.9	101.5	29,700	75
80	52.4	100.8	40,700	54.7	99.7	41,000	56.8	97.5	28,700	80
85	49.2	96.5	37,500	51.5	95.4	37,800	53.5	93.0	27,700	85
90	46.0	91.7	34,700	48.2	90.5	35,000	50.1	88.0	26,900	90
95	42.5	86.3	32,200	44.6	85.1	32,400	46.4	82.4	26,200	95
100	38.7	80.1	30,000	40.8	78.8	30,200	42.5	75.9	25,600	100
105	34.6	73.1	28,000	36.6	71.6	28,100	38.1	68.3	25,000	105
110	30.0	64.7	26,200	31.9	63.0	26,300	33.0	59.2	24,700	110
114	25.7	56.7	24,800	27.0	54.5	24,900	28.2	50.2	24,500	114
115				26.2	52.3	24,600				115

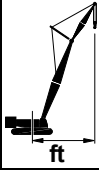
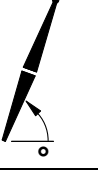
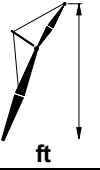
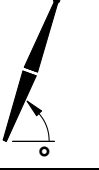
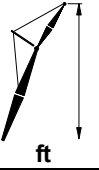
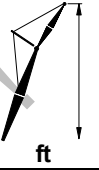
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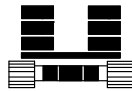
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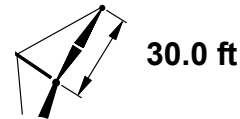
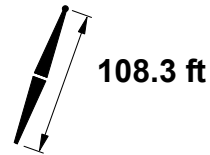
110,500 lb
+
35,000 lb



	5°			15°			25°			
 ft	 o	 ft	 lb	 o	 ft	 lb	 o	 ft	 lb	 ft
32	78.9	134.5	59,200							32
34	78.0	134.0	59,200							34
36	77.1	133.5	59,200							36
37	76.5	133.3	59,200	79.0	132.5	58,700				37
38	76.2	133.0	59,200	78.5	132.2	58,500				38
40	75.3	132.5	59,200	77.6	131.6	58,000				40
42	74.4	131.9	59,200	76.7	131.0	57,600	79.0	129.2	41,800	42
44	73.4	131.2	59,200	75.7	130.4	57,200	78.1	128.5	40,900	44
46	72.5	130.6	59,200	74.8	129.7	56,800	77.1	127.9	40,000	46
48	71.6	129.9	59,200	73.9	129.0	56,500	76.2	127.1	39,100	48
50	70.7	129.2	59,100	72.9	128.3	56,200	75.2	126.4	38,300	50
55	68.3	127.2	57,900	70.5	126.3	55,300	72.8	124.3	36,400	55
60	65.9	124.9	56,800	68.1	124.0	53,500	70.3	122.0	34,800	60
65	63.4	122.4	53,400	65.6	121.5	50,400	67.8	119.5	33,300	65
70	60.9	119.6	48,300	63.1	118.7	47,700	65.2	116.6	32,000	70
75	58.3	116.5	44,000	60.5	115.6	44,500	62.6	113.4	30,800	75
80	55.7	113.1	40,300	57.8	112.1	40,700	59.8	109.9	29,700	80
85	52.9	109.4	37,100	55.1	108.3	37,500	57.0	106.0	28,800	85
90	50.1	105.2	34,300	52.2	104.1	34,600	54.0	101.7	27,900	90
95	47.1	100.6	31,800	49.2	99.4	32,100	50.9	96.9	27,100	95
100	43.9	95.4	29,600	46.0	94.2	29,800	47.7	91.6	26,400	100
105	40.6	89.7	27,600	42.6	88.4	27,800	44.2	85.5	25,800	105
110	37.0	83.2	25,800	38.9	81.8	25,900	40.3	78.6	25,300	110
115	33.0	75.7	24,100	34.9	74.1	24,300	36.1	70.6	24,400	115
120	28.6	66.8	22,600	30.3	65.1	22,700	31.2	61.0	22,800	120
123	25.6	60.6	21,800	27.0	58.5	21,900	27.8	54.0	21,900	123
124				26.0	56.3	21,600				124



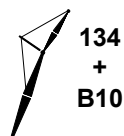
110,500 lb
+
35,000 lb



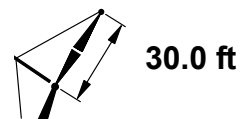
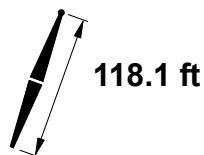
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
34	78.9	144.1	59,200							34
36	78.0	143.7	59,200							36
38	77.2	143.2	59,200							38
39	76.5	142.9	59,200	78.9	142.1	58,300				39
40	76.3	142.7	59,200	78.5	141.8	58,100				40
42	75.5	142.1	59,200	77.6	141.3	57,700				42
44	74.6	141.5	59,200	76.8	140.7	57,300	79.0	138.8	41,800	44
46	73.8	140.9	59,200	75.9	140.1	57,000	78.1	138.2	41,000	46
48	72.9	140.3	59,200	75.1	139.4	56,700	77.2	137.5	40,100	48
50	72.1	139.6	59,200	74.2	138.7	56,300	76.3	136.8	39,300	50
55	69.9	137.8	58,300	72.0	136.9	55,500	74.1	134.9	37,500	55
60	67.7	135.7	57,200	69.8	134.8	54,700	71.8	132.8	35,800	60
65	65.4	133.4	53,200	67.5	132.5	52,600	69.5	130.5	34,400	65
70	63.2	130.9	48,100	65.2	129.9	48,600	67.2	127.9	33,000	70
75	60.8	128.1	43,800	62.9	127.1	44,300	64.8	125.0	31,800	75
80	58.4	125.0	40,100	60.4	124.0	40,500	62.3	121.9	30,700	80
85	56.0	121.6	36,900	58.0	120.6	37,300	59.8	118.4	29,700	85
90	53.4	117.9	34,000	55.4	116.9	34,400	57.2	114.6	28,800	90
95	50.8	113.9	31,600	52.7	112.8	31,900	54.5	110.4	28,000	95
100	48.1	109.4	29,300	50.0	108.3	29,600	51.6	105.8	27,300	100
105	45.2	104.5	27,300	47.1	103.3	27,600	48.7	100.6	26,600	105
110	42.2	99.0	25,500	44.0	97.8	25,700	45.5	94.9	25,900	110
115	38.9	92.9	23,900	40.7	91.6	24,100	42.1	88.5	24,200	115
120	35.5	86.0	22,400	37.2	84.6	22,600	38.5	81.3	22,700	120
125	31.7	78.1	21,100	33.3	76.5	21,200	34.4	72.8	21,200	125
130	27.4	68.9	19,800	28.9	67.0	19,900	29.7	62.6	19,900	130
131	26.0	66.7	19,600	27.0	64.7	19,600	28.6	60.3	19,700	131
132	25.4	64.6	19,300	26.0	62.5	19,400				132
133				25.9	60.2	19,200				133

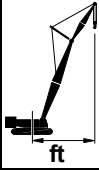
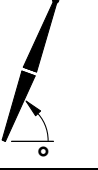
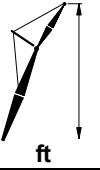
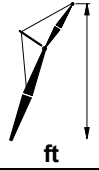
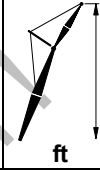
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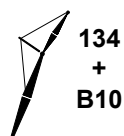
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110,500 lb
+
35,000 lb



	5°			15°			25°			
										
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
36	78.8	153.8	59,200							36
38	78.0	153.3	59,200							38
40	77.3	152.8	59,200							40
41	76.5	152.6	59,200	78.9	151.7	57,800				41
42	76.5	152.3	59,200	78.5	151.5	57,700				42
44	75.7	151.8	59,200	77.7	150.9	57,300				44
46	74.9	151.2	59,200	76.9	150.3	57,100	78.9	148.4	41,800	46
48	74.1	150.6	59,200	76.1	149.7	56,700	78.1	147.8	41,000	48
50	73.3	150.0	59,200	75.3	149.1	56,400	77.3	147.2	40,200	50
55	71.3	148.3	58,600	73.2	147.4	55,600	75.2	145.4	38,300	55
60	69.2	146.4	57,500	71.2	145.5	54,900	73.1	143.5	36,700	60
65	67.2	144.3	52,800	69.1	143.3	53,500	71.0	141.3	35,300	65
70	65.1	141.9	47,700	67.0	141.0	48,300	68.9	138.9	33,900	70
75	62.9	139.4	43,400	64.8	138.4	43,900	66.7	136.3	32,700	75
80	60.7	136.6	39,700	62.6	135.6	40,200	64.4	133.4	31,600	80
85	58.5	133.5	36,500	60.4	132.5	36,900	62.1	130.3	30,600	85
90	56.2	130.2	33,700	58.1	129.1	34,100	59.8	126.9	29,700	90
95	53.8	126.5	31,200	55.7	125.4	31,500	57.4	123.1	28,900	95
100	51.4	122.5	28,900	53.2	121.4	29,300	54.9	119.0	28,100	100
105	48.9	118.2	26,900	50.7	117.0	27,200	52.2	114.5	27,400	105
110	46.2	113.4	25,100	48.0	112.2	25,400	49.5	109.6	25,600	110
115	43.5	108.2	23,500	45.2	107.0	23,700	46.6	104.2	23,900	115
120	40.6	102.4	22,000	42.3	101.1	22,200	43.6	98.1	22,400	120
125	37.5	96.0	20,700	39.1	94.6	20,800	40.3	91.4	21,000	125
130	34.1	88.8	19,400	35.7	87.2	19,600	36.8	83.7	19,600	130
135	30.4	80.5	18,300	31.9	78.8	18,400	32.8	74.8	18,400	135
140	26.2	70.8	17,200	27.6	68.8	17,300	28.2	64.2	17,300	140
141	25.3	68.6	17,000	26.0	66.5	17,100				141
142				25.7	64.2	16,800				142



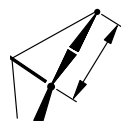
110,500 lb
+
35,000 lb



360°



128.0 ft

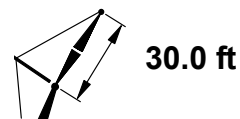
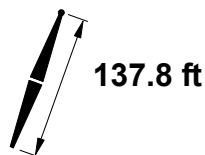
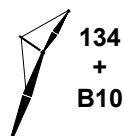


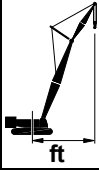
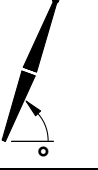
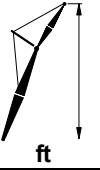
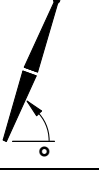
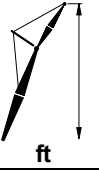
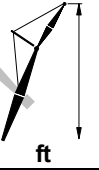
30.0 ft

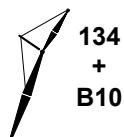
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
38	78.8	163.4	59,200							38
40	78.1	162.9	59,200							40
42	77.3	162.5	59,200							42
43	76.5	162.2	59,200	78.8	161.3	57,400				43
44	76.6	162.0	59,200	78.5	161.1	57,300				44
46	75.8	161.4	59,200	77.7	160.6	56,900				46
48	75.1	160.9	59,200	77.0	160.0	56,700	78.9	158.0	41,700	48
50	74.4	160.3	59,200	76.2	159.4	56,400	78.1	157.5	41,000	50
55	72.5	158.7	58,700	74.3	157.8	55,700	76.2	155.8	39,200	55
60	70.6	156.9	57,700	72.4	156.0	55,000	74.3	154.0	37,600	60
65	68.6	155.0	52,500	70.5	154.0	53,200	72.3	152.0	36,100	65
70	66.7	152.8	47,400	68.5	151.9	48,000	70.3	149.8	34,900	70
75	64.7	150.4	43,100	66.5	149.5	43,600	68.3	147.4	33,600	75
80	62.7	147.9	39,400	64.5	146.9	39,900	66.2	144.8	32,500	80
85	60.6	145.0	36,100	62.4	144.1	36,600	64.1	141.9	31,500	85
90	58.6	142.0	33,300	60.3	141.0	33,700	62.0	138.7	30,500	90
95	56.4	138.7	30,800	58.2	137.6	31,200	59.8	135.3	29,700	95
100	54.2	135.1	28,600	55.9	134.0	28,900	57.5	131.6	28,900	100
105	51.9	131.2	26,600	53.6	130.1	26,900	55.2	127.6	27,200	105
110	49.6	126.9	24,800	51.3	125.8	25,100	52.7	123.3	25,300	110
115	47.1	122.3	23,200	48.8	121.1	23,400	50.2	118.5	23,600	115
120	44.6	117.3	21,700	46.2	116.0	21,900	47.6	113.3	22,100	120
125	41.9	111.8	20,300	43.5	110.5	20,500	44.8	107.6	20,700	125
130	39.1	105.7	19,100	40.7	104.3	19,300	41.9	101.2	19,400	130
135	36.1	98.9	17,900	37.6	97.5	18,100	38.7	94.1	18,200	135
140	32.9	91.4	16,900	34.3	89.8	17,000	35.3	86.1	17,100	140
145	29.3	82.7	15,900	30.7	80.9	16,000	31.4	76.8	16,000	145
149	25.8	74.6	15,100	26.8	72.6	15,200	27.9	68.1	15,200	149
150	25.2	72.6	14,900	26.5	70.5	15,000				150
151				25.6	68.1	14,800				151

MLC150-1 S-2

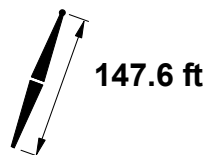
ASME B30.5



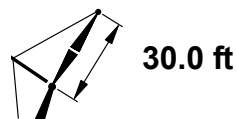
	5°			15°			25°			
 ft	 o	 ft	 lb	 o	 ft	 lb	 o	 ft	 lb	 ft
40	78.8	173.0	59,200							40
42	78.1	172.6	59,200							42
44	77.4	172.1	59,200							44
45	76.5	171.9	59,200	78.8	171.0	57,000				45
46	76.7	171.6	59,200	78.5	170.7	56,800				46
48	76.0	171.1	59,200	77.7	170.2	56,500				48
50	75.3	170.5	59,200	77.0	169.6	56,200	78.8	167.7	41,600	50
55	73.5	169.1	58,700	75.3	168.1	55,600	77.0	166.2	39,900	55
60	71.7	167.4	57,800	73.5	166.5	54,900	75.2	164.5	38,400	60
65	70.0	165.6	52,100	71.7	164.6	52,900	73.4	162.6	37,000	65
70	68.1	163.5	47,000	69.9	162.6	47,700	71.5	160.5	35,600	70
75	66.3	161.3	42,700	68.0	160.4	43,300	69.7	158.3	34,400	75
80	64.4	158.9	39,000	66.1	158.0	39,500	67.8	155.9	33,300	80
85	62.5	156.3	35,800	64.2	155.4	36,300	65.8	153.2	32,300	85
90	60.6	153.5	32,900	62.3	152.5	33,400	63.8	150.3	31,400	90
95	58.6	150.5	30,400	60.3	149.4	30,900	61.8	147.2	30,500	95
100	56.6	147.2	28,200	58.2	146.1	28,600	59.7	143.8	28,900	100
105	54.5	143.6	26,200	56.1	142.5	26,600	57.6	140.2	26,900	105
110	52.4	139.8	24,400	54.0	138.7	24,700	55.4	136.2	25,000	110
115	50.2	135.6	22,800	51.8	134.5	23,100	53.2	131.9	23,300	115
120	47.9	131.1	21,300	49.5	129.9	21,600	50.9	127.3	21,800	120
125	45.6	126.3	19,900	47.1	125.0	20,200	48.4	122.3	20,400	125
130	43.1	121.0	18,700	44.6	119.7	18,900	45.9	116.8	19,100	130
135	40.5	115.2	17,500	42.0	113.8	17,700	43.2	110.8	17,900	135
140	37.8	108.8	16,500	39.3	107.4	16,600	40.3	104.1	16,700	140
145	34.9	101.8	15,500	36.3	100.2	15,600	37.3	96.7	15,700	145
150	31.7	93.9	14,600	33.1	92.2	14,700	33.9	88.3	14,700	150
155	28.3	84.9	13,700	29.5	83.0	13,800	30.2	78.6	13,800	155
157	26.5	80.7	13,400	27.4	78.6	13,400	28.5	74.3	13,500	157
159	25.2	76.6	13,000	25.8	74.2	13,100				159
160				25.5	72.1	12,900				160



110,500 lb
+
35,000 lb



147.6 ft

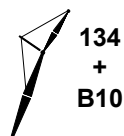


30.0 ft

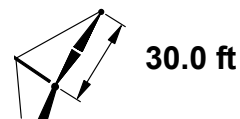
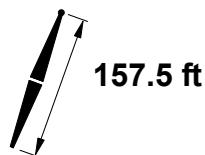
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
42	78.7	182.7	59,200							42
44	78.1	182.2	59,200							44
46	77.4	181.8	59,200							46
47	76.5	181.5	59,200	78.8	180.6	56,400				47
48	76.8	181.3	59,200	78.4	180.4	56,300				48
50	76.1	180.7	59,200	77.8	179.8	56,000				50
52	75.2	180.2	58,900	76.6	179.3	55,800	78.8	177.3	41,600	52
55	74.5	179.3	58,600	76.1	178.4	55,400	77.8	176.4	40,600	55
60	72.8	177.8	57,700	74.4	176.9	54,800	76.1	174.8	39,100	60
65	71.1	176.1	51,900	72.7	175.1	52,600	74.4	173.1	37,700	65
70	69.4	174.2	46,800	71.0	173.2	47,500	72.6	171.2	36,400	70
75	67.7	172.1	42,400	69.3	171.2	43,100	70.9	169.1	35,200	75
80	65.9	169.9	38,700	67.5	168.9	39,300	69.1	166.8	34,100	80
85	64.2	167.4	35,500	65.8	166.5	36,000	67.3	164.3	33,000	85
90	62.4	164.8	32,700	63.9	163.8	33,100	65.5	161.6	32,200	90
95	60.5	162.0	30,200	62.1	161.0	30,600	63.6	158.7	31,000	95
100	58.7	158.9	27,900	60.2	157.9	28,300	61.7	155.6	28,700	100
105	56.7	155.7	25,900	58.3	154.6	26,300	59.7	152.3	26,600	105
110	54.8	152.1	24,100	56.3	151.1	24,500	57.7	148.7	24,800	110
115	52.8	148.4	22,500	54.3	147.2	22,800	55.7	144.8	23,100	115
120	50.7	144.3	21,000	52.3	143.1	21,300	53.6	140.6	21,500	120
125	48.6	139.9	19,700	50.1	138.7	19,900	51.4	136.1	20,100	125
130	46.4	135.2	18,400	47.9	133.9	18,600	49.1	131.2	18,800	130
135	44.1	130.1	17,300	45.6	128.8	17,500	46.8	125.9	17,600	135
140	41.8	124.5	16,200	43.2	123.2	16,400	44.3	120.2	16,500	140
145	39.3	118.5	15,200	40.7	117.0	15,400	41.7	113.9	15,500	145
150	36.6	111.8	14,300	38.0	110.3	14,400	38.9	107.0	14,500	150
155	33.8	104.5	13,400	35.1	102.9	13,600	36.0	99.2	13,600	155
160	30.7	96.3	12,600	32.0	94.5	12,700	32.7	90.5	12,800	160
165	27.3	86.9	11,900	28.5	84.9	12,000	29.0	80.4	12,000	165
166	26.3	84.8	11,700	27.3	82.7	11,800	28.3	78.2	11,800	166
168	25.1	80.5	11,400	25.8	78.2	11,500				168
169				25.4	76.0	11,400				169

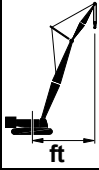
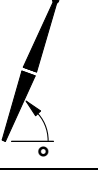
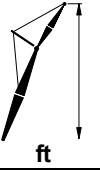
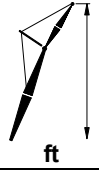
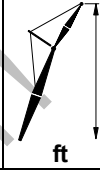
MLC150-1 S-2

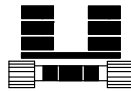
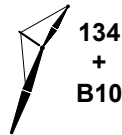
ASME B30.5



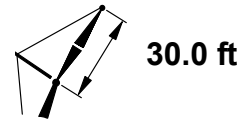
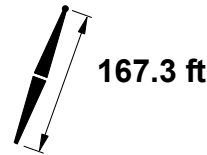
110,500 lb
+
35,000 lb



	5°			15°			25°			
 ft	 o	 ft	 lb	 o	 ft	 lb	 o	 ft	 lb	 ft
44	78.7	192.3	59,200							44
46	78.1	191.9	59,200							46
48	77.5	191.4	59,200							48
49	76.5	191.1	59,100	78.7	190.2	55,800				49
50	76.8	190.9	59,100	78.4	190.0	55,700				50
54	75.2	189.8	58,400	76.4	188.9	55,200	78.8	186.9	41,500	54
55	75.3	189.6	58,200	76.9	188.7	55,100	78.5	186.7	41,200	55
60	73.7	188.1	57,500	75.3	187.2	54,500	76.9	185.2	39,700	60
65	72.1	186.5	51,500	73.7	185.6	52,300	75.2	183.5	38,300	65
70	70.5	184.7	46,400	72.1	183.8	47,100	73.6	181.7	37,100	70
75	68.9	182.8	42,100	70.4	181.8	42,700	72.0	179.7	35,800	75
80	67.3	180.7	38,400	68.8	179.7	39,000	70.3	177.6	34,800	80
85	65.6	178.4	35,100	67.1	177.4	35,700	68.6	175.3	33,800	85
90	63.9	175.9	32,300	65.4	175.0	32,800	66.9	172.8	32,800	90
95	62.2	173.3	29,800	63.7	172.3	30,300	65.1	170.1	30,700	95
100	60.5	170.5	27,500	62.0	169.4	28,000	63.4	167.2	28,400	100
105	58.7	167.4	25,600	60.2	166.4	26,000	61.6	164.1	26,300	105
110	56.9	164.2	23,700	58.4	163.1	24,100	59.7	160.8	24,500	110
115	55.1	160.7	22,100	56.5	159.6	22,500	57.8	157.2	22,800	115
120	53.2	156.9	20,600	54.6	155.8	20,900	55.9	153.4	21,200	120
125	51.2	152.9	19,300	52.7	151.8	19,600	53.9	149.3	19,800	125
130	49.2	148.6	18,000	50.6	147.5	18,300	51.9	144.8	18,500	130
135	47.2	144.0	16,900	48.6	142.8	17,100	49.8	140.1	17,300	135
140	45.1	139.1	15,800	46.4	137.8	16,000	47.6	135.0	16,200	140
145	42.8	133.7	14,800	44.2	132.4	15,000	45.3	129.5	15,200	145
150	40.5	127.9	13,900	41.9	126.5	14,100	42.9	123.5	14,200	150
155	38.1	121.6	13,000	39.4	120.2	13,200	40.3	116.9	13,300	155
160	35.5	114.7	12,200	36.8	113.2	12,400	37.7	109.7	12,500	160
165	32.8	107.1	11,500	34.0	105.4	11,600	34.8	101.6	11,700	165
170	29.8	98.6	10,800	30.9	96.7	10,900	31.6	92.6	10,900	170
175	26.5	88.8	10,100	27.6	86.8	10,200	28.0	82.1	10,200	175
177	25.0	84.5	9,900	25.7	82.3	9,900				177
178				25.3	80.0	9,800				178



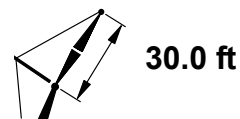
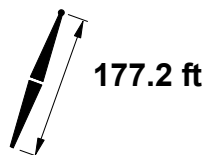
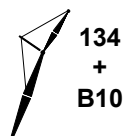
110,500 lb
+
35,000 lb

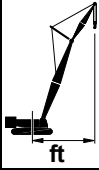
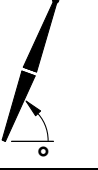
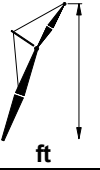
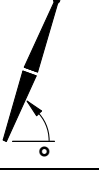
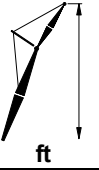
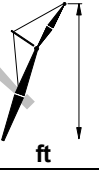


	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
45	79.0	202.2	59,200							45
46	78.7	201.9	59,200							46
48	78.1	201.5	58,900							48
50	77.5	201.0	58,700							50
51	76.8	200.8	58,500	78.7	199.9	55,200				51
55	76.0	199.8	57,900	77.5	198.9	54,800				55
56	75.6	199.5	57,700	76.8	198.6	54,700	78.7	196.6	41,500	56
60	74.5	198.4	57,200	76.0	197.5	54,300	77.5	195.4	40,300	60
65	73.0	196.9	51,200	74.5	195.9	52,000	76.0	193.9	39,000	65
70	71.5	195.2	46,100	73.0	194.2	46,800	74.5	192.2	37,700	70
75	70.0	193.3	41,700	71.5	192.4	42,400	72.9	190.3	36,600	75
80	68.4	191.4	38,000	69.9	190.4	38,700	71.3	188.3	35,500	80
85	66.9	189.2	34,800	68.3	188.2	35,400	69.8	186.1	34,500	85
90	65.3	186.9	31,900	66.7	185.9	32,500	68.1	183.8	33,000	90
95	63.7	184.4	29,400	65.1	183.4	29,900	66.5	181.2	30,400	95
100	62.1	181.8	27,200	63.5	180.8	27,700	64.9	178.5	28,100	100
105	60.4	178.9	25,200	61.8	177.9	25,600	63.2	175.6	26,000	105
110	58.7	175.9	23,400	60.1	174.9	23,800	61.5	172.5	24,200	110
115	57.0	172.7	21,800	58.4	171.6	22,100	59.7	169.2	22,500	115
120	55.3	169.2	20,300	56.7	168.1	20,600	57.9	165.7	20,900	120
125	53.5	165.5	18,900	54.9	164.4	19,200	56.1	161.9	19,500	125
130	51.7	161.6	17,700	53.0	160.4	17,900	54.2	157.9	18,200	130
135	49.8	157.3	16,500	51.1	156.2	16,800	52.3	153.6	17,000	135
140	47.8	152.8	15,500	49.2	151.6	15,700	50.3	148.9	15,900	140
145	45.8	148.0	14,500	47.2	146.8	14,700	48.3	144.0	14,900	145
150	43.8	142.8	13,500	45.1	141.5	13,700	46.1	138.6	13,900	150
155	41.6	137.2	12,700	42.9	135.9	12,900	43.9	132.9	13,000	155
160	39.4	131.2	11,900	40.6	129.8	12,100	41.6	126.6	12,200	160
165	37.0	124.7	11,100	38.2	123.2	11,300	39.1	119.8	11,400	165
170	34.5	117.5	10,400	35.7	115.9	10,600	36.5	112.3	10,600	170
175	31.8	109.6	9,800	32.9	107.9	9,900	33.6	104.0	9,900	175
180	28.9	100.8	9,100	30.0	98.8	9,200	30.5	94.6	9,300	180
183	26.2	94.7	8,800	27.2	92.7	8,900	28.5	88.2	8,900	183
185	25.7	90.7	8,500	26.7	88.6	8,600				185
187				25.2	84.0	8,400				187

MLC150-1 S-2

ASME B30.5



	5°			15°			25°			
 ft	 °	 ft	 lb	 °	 ft	 lb	 °	 ft	 lb	 ft
47	78.9	211.8	58,500							47
48	78.7	211.6	58,300							48
50	78.1	211.1	58,000							50
52	77.2	210.7	57,800	79.0	209.8	54,600				52
55	76.7	209.9	57,400	78.1	209.0	54,200				55
58	75.4	209.1	56,900	76.8	208.2	54,000	78.7	206.2	41,400	58
60	75.3	208.6	56,700	76.7	207.7	53,800	78.1	205.6	40,900	60
65	73.9	207.2	50,800	75.3	206.2	51,700	76.7	204.2	39,600	65
70	72.4	205.6	45,700	73.8	204.6	46,500	75.2	202.6	38,300	70
75	71.0	203.8	41,400	72.4	202.9	42,100	73.8	200.8	37,100	75
80	69.5	202.0	37,600	70.9	201.0	38,300	72.3	198.9	36,100	80
85	68.0	199.9	34,400	69.4	199.0	35,000	70.8	196.8	35,100	85
90	66.5	197.8	31,600	67.9	196.8	32,100	69.3	194.6	32,700	90
95	65.0	195.4	29,000	66.4	194.4	29,600	67.7	192.2	30,100	95
100	63.5	192.9	26,800	64.9	191.9	27,300	66.2	189.7	27,800	100
105	61.9	190.3	24,800	63.3	189.2	25,300	64.6	187.0	25,700	105
110	60.4	187.4	23,000	61.7	186.4	23,400	63.0	184.1	23,800	110
115	58.8	184.4	21,400	60.1	183.3	21,800	61.4	181.0	22,100	115
120	57.1	181.2	19,900	58.5	180.1	20,200	59.7	177.7	20,600	120
125	55.5	177.7	18,500	56.8	176.6	18,900	58.0	174.2	19,200	125
130	53.8	174.1	17,300	55.1	172.9	17,600	56.3	170.5	17,900	130
135	52.0	170.2	16,100	53.3	169.0	16,400	54.5	166.5	16,700	135
140	50.3	166.0	15,100	51.6	164.9	15,300	52.7	162.2	15,600	140
145	48.4	161.6	14,100	49.7	160.4	14,300	50.8	157.7	14,500	145
150	46.6	156.9	13,200	47.8	155.7	13,400	48.9	152.9	13,600	150
155	44.6	151.9	12,300	45.9	150.6	12,500	46.9	147.7	12,700	155
160	42.6	146.5	11,500	43.8	145.1	11,700	44.8	142.1	11,800	160
165	40.5	140.7	10,700	41.7	139.3	10,900	42.6	136.1	11,000	165
170	38.3	134.4	10,000	39.5	132.9	10,200	40.3	129.6	10,300	170
175	36.0	127.6	9,400	37.1	126.0	9,500	37.9	122.6	9,600	175
180	33.6	120.2	8,800	34.7	118.5	8,900	35.4	114.8	8,900	180
185	30.9	112.0	8,200	32.0	110.2	8,300	32.6	106.2	8,300	185
190	28.1	102.9	7,600	29.1	100.9	7,700	29.6	96.5	7,700	190
192	26.5	98.8	7,400	27.4	96.6	7,400	28.3	92.2	7,500	192
194	25.6	94.7	7,200	25.8	92.4	7,200				194
195				25.9	90.3	7,100				195
196				25.2	87.9	7,000				196



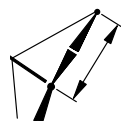
110,500 lb
+
35,000 lb



360°



187.0 ft

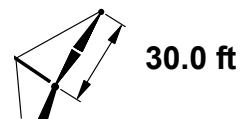
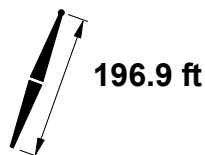
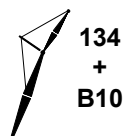


30.0 ft

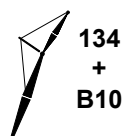
	5°			15°			25°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
49	78.9	221.4	57,400							49
50	78.7	221.2	57,300							50
54	77.2	220.3	56,800	79.0	219.4	53,700				54
55	77.3	220.1	56,600	78.7	219.1	53,700				55
59	75.4	219.1	56,100	77.2	218.1	53,300	79.0	216.1	41,700	59
60	76.0	218.8	56,000	77.3	217.9	53,200	78.7	215.8	41,400	60
65	74.6	217.4	50,500	76.0	216.5	51,500	77.3	214.4	40,100	65
70	73.2	215.9	45,400	74.6	215.0	46,300	75.9	212.9	38,900	70
75	71.9	214.3	41,100	73.2	213.3	41,800	74.5	211.2	37,700	75
80	70.5	212.5	37,300	71.8	211.5	38,000	73.1	209.4	36,700	80
85	69.1	210.6	34,100	70.4	209.6	34,700	71.7	207.5	35,400	85
90	67.7	208.5	31,300	69.0	207.5	31,900	70.3	205.4	32,400	90
95	66.2	206.3	28,700	67.6	205.3	29,300	68.8	203.1	29,800	95
100	64.8	203.9	26,500	66.1	202.9	27,000	67.4	200.7	27,500	100
105	63.3	201.4	24,500	64.6	200.4	25,000	65.9	198.2	25,400	105
110	61.8	198.7	22,700	63.1	197.7	23,100	64.4	195.4	23,600	110
115	60.3	195.9	21,100	61.6	194.8	21,500	62.8	192.5	21,900	115
120	58.8	192.9	19,600	60.1	191.8	20,000	61.3	189.5	20,300	120
125	57.2	189.7	18,200	58.5	188.6	18,600	59.7	186.2	18,900	125
130	55.7	186.2	17,000	56.9	185.1	17,300	58.1	182.7	17,600	130
135	54.1	182.6	15,800	55.3	181.5	16,100	56.4	179.0	16,400	135
140	52.4	178.8	14,800	53.6	177.6	15,000	54.7	175.1	15,300	140
145	50.7	174.7	13,800	51.9	173.5	14,000	53.0	170.9	14,300	145
150	49.0	170.4	12,800	50.2	169.1	13,100	51.2	166.5	13,300	150
155	47.2	165.8	12,000	48.4	164.5	12,200	49.4	161.7	12,400	155
160	45.4	160.8	11,200	46.6	159.6	11,400	47.5	156.7	11,600	160
165	43.5	155.6	10,400	44.6	154.3	10,600	45.6	151.3	10,800	165
170	41.5	150.0	9,700	42.7	148.6	9,900	43.6	145.5	10,000	170
175	39.5	144.0	9,100	40.6	142.5	9,200	41.4	139.3	9,300	175
180	37.3	137.5	8,500	38.4	136.0	8,600	39.2	132.6	8,700	180
185	35.1	130.5	7,900	36.1	128.9	8,000	36.9	125.3	8,100	185
190	32.7	122.8	7,300	33.7	121.1	7,400	34.4	117.2	7,500	190
195	30.1	114.3	6,800	31.1	112.5	6,900	31.7	108.3	6,900	195
200	27.3	104.9	6,300	28.3	102.9	6,300	28.7	98.3	6,400	200
201	26.3	102.8	6,200	27.4	100.7	6,200	28.1	96.1	6,200	201
203	25.5	98.7	6,000	26.2	96.3	6,000				203
205				25.1	91.9	5,800				205

MLC150-1 S-2

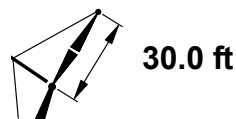
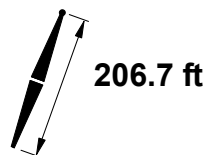
ASME B30.5



	5°			15°			25°			
	ft	o	ft	lb	ft	lb	ft	lb	ft	
51	78.9	231.1	53,800							51
55	77.9	230.2	53,500							55
56	76.8	229.9	53,400	78.9	229.0	51,900				56
60	76.6	229.0	53,200	77.9	228.0	51,700				60
61	75.8	228.7	52,600	76.8	227.8	51,600	78.9	225.7	41,600	61
65	75.3	227.7	50,200	76.6	226.7	51,200	77.9	224.6	40,600	65
70	74.0	226.2	45,100	75.3	225.3	46,000	76.6	223.2	39,400	70
75	72.7	224.7	40,700	74.0	223.7	41,500	75.2	221.6	38,300	75
80	71.4	223.0	37,000	72.6	222.0	37,700	73.9	219.9	37,200	80
85	70.0	221.1	33,700	71.3	220.2	34,400	72.6	218.0	35,100	85
90	68.7	219.2	30,900	69.9	218.2	31,500	71.2	216.0	32,100	90
95	67.3	217.1	28,400	68.6	216.1	29,000	69.8	213.9	29,500	95
100	65.9	214.8	26,100	67.2	213.8	26,700	68.4	211.6	27,200	100
105	64.6	212.5	24,100	65.8	211.4	24,600	67.0	209.2	25,100	105
110	63.2	209.9	22,300	64.4	208.9	22,800	65.6	206.6	23,200	110
115	61.7	207.2	20,700	63.0	206.2	21,100	64.1	203.9	21,500	115
120	60.3	204.4	19,200	61.5	203.3	19,600	62.7	201.0	20,000	120
125	58.8	201.3	17,800	60.1	200.3	18,200	61.2	197.9	18,600	125
130	57.3	198.1	16,600	58.6	197.1	16,900	59.7	194.7	17,300	130
135	55.8	194.8	15,400	57.0	193.6	15,800	58.1	191.2	16,100	135
140	54.3	191.2	14,400	55.5	190.0	14,700	56.6	187.5	15,000	140
145	52.7	187.4	13,400	53.9	186.2	13,700	55.0	183.7	13,900	145
150	51.1	183.3	12,500	52.3	182.2	12,700	53.3	179.6	13,000	150
155	49.5	179.1	11,600	50.6	177.9	11,900	51.6	175.2	12,100	155
160	47.8	174.6	10,800	48.9	173.3	11,000	49.9	170.6	11,200	160
165	46.1	169.8	10,100	47.2	168.5	10,300	48.1	165.7	10,400	165
170	44.3	164.7	9,400	45.4	163.3	9,500	46.3	160.4	9,700	170
175	42.4	159.2	8,700	43.5	157.9	8,900	44.4	154.8	9,000	175
180	40.5	153.4	8,100	41.6	152.0	8,200	42.4	148.8	8,300	180
185	38.5	147.2	7,500	39.6	145.7	7,600	40.4	142.4	7,700	185
190	36.4	140.5	6,900	37.5	138.9	7,000	38.2	135.4	7,100	190
195	34.2	133.2	6,400	35.2	131.6	6,500	35.9	127.9	6,600	195
200	31.9	125.3	5,900	32.8	123.5	6,000	33.4	119.6	6,000	200
205	29.3	116.6	5,400	30.3	114.7	5,500	30.8	110.4	5,500	205
210	26.6	106.9	4,900	27.5	104.8	5,000	27.9	100.0	5,000	210
212	25.4	102.7	4,700	26.0	100.3	4,800				212
214				25.0	95.9	4,600				214



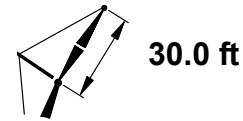
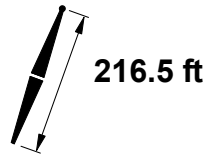
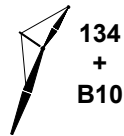
110,500 lb
+
35,000 lb



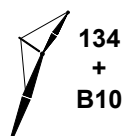
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
53	78.9	240.7	48,600							53
55	78.4	240.3	48,500							55
58	77.4	239.6	48,200	78.9	238.7	47,000				58
60	77.1	239.1	48,100	78.4	238.2	46,800				60
63	75.8	238.4	47,900	77.4	237.4	46,600	78.9	235.4	41,600	63
65	75.9	237.9	47,700	77.2	236.9	46,500	78.4	234.8	41,100	65
70	74.7	236.5	44,700	75.9	235.5	45,700	77.2	233.4	39,900	70
75	73.4	235.0	40,400	74.7	234.0	41,200	75.9	231.9	38,800	75
80	72.1	233.4	36,600	73.4	232.4	37,400	74.6	230.3	37,700	80
85	70.9	231.6	33,400	72.1	230.6	34,100	73.3	228.5	34,800	85
90	69.6	229.8	30,500	70.8	228.8	31,200	72.0	226.6	31,800	90
95	68.3	227.8	28,000	69.5	226.8	28,600	70.7	224.6	29,200	95
100	67.0	225.6	25,800	68.2	224.6	26,300	69.4	222.4	26,900	100
105	65.7	223.4	23,800	66.9	222.4	24,300	68.1	220.1	24,800	105
110	64.4	221.0	22,000	65.6	219.9	22,500	66.7	217.7	22,900	110
115	63.0	218.4	20,300	64.2	217.4	20,800	65.3	215.1	21,200	115
120	61.6	215.7	18,800	62.8	214.7	19,300	63.9	212.4	19,700	120
125	60.3	212.9	17,500	61.4	211.8	17,900	62.5	209.5	18,300	125
130	58.9	209.8	16,200	60.0	208.8	16,600	61.1	206.4	16,900	130
135	57.4	206.6	15,100	58.6	205.5	15,400	59.7	203.1	15,700	135
140	56.0	203.3	14,000	57.1	202.2	14,300	58.2	199.7	14,600	140
145	54.5	199.7	13,000	55.7	198.6	13,300	56.7	196.1	13,600	145
150	53.0	195.9	12,100	54.2	194.8	12,400	55.2	192.2	12,600	150
155	51.5	192.0	11,200	52.6	190.8	11,500	53.6	188.2	11,700	155
160	49.9	187.8	10,400	51.0	186.6	10,700	52.0	183.9	10,900	160
165	48.3	183.3	9,700	49.4	182.1	9,900	50.4	179.4	10,100	165
170	46.7	178.6	9,000	47.8	177.4	9,200	48.7	174.6	9,400	170
175	45.0	173.7	8,300	46.1	172.3	8,500	46.9	169.4	8,700	175
180	43.2	168.4	7,700	44.3	167.0	7,900	45.1	164.0	8,000	180
185	41.4	162.7	7,100	42.5	161.3	7,300	43.3	158.2	7,400	185
190	39.5	156.7	6,600	40.6	155.3	6,700	41.4	152.0	6,800	190
195	37.6	150.3	6,000	38.6	148.8	6,200	39.3	145.4	6,200	195
200	35.5	143.4	5,500	36.5	141.8	5,600	37.2	138.2	5,700	200
205	33.4	135.9	5,000	34.3	134.2	5,100	35.0	130.4	5,200	205
210	31.1	127.7	4,400	32.0	125.9	4,500	32.5	121.9	4,600	210
215	28.6	118.8	3,900	29.5	116.8	4,000	29.9	112.4	4,000	215
218	26.2	112.8	3,600	27.2	110.7	3,700	28.3	106.2	3,700	218
220	25.9	108.8	3,400	26.8	106.6	3,500				220
221	25.4	106.6	3,300	25.5	104.4	3,400				221
222				25.6	102.2	3,300				222

MLC150-1 S-2

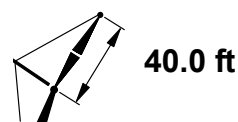
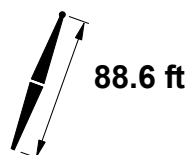
ASME B30.5



	5°			15°			25°			
	ft	o	ft	lb	ft	lb	ft	lb	ft	ft
55	78.8	250.3	43,800							55
60	77.7	249.2	43,500	78.9	248.3	42,400				60
65	76.5	248.0	43,000	77.7	247.1	42,100	78.9	245.0	40,200	65
70	75.3	246.7	42,800	76.5	245.7	41,700	77.7	243.7	39,900	70
75	74.1	245.3	40,000	75.3	244.3	40,900	76.5	242.2	39,200	75
80	72.9	243.7	36,300	74.1	242.8	37,100	75.2	240.6	37,900	80
85	71.7	242.1	33,000	72.9	241.1	33,800	74.0	238.9	34,500	85
90	70.4	240.3	30,200	71.6	239.3	30,900	72.8	237.1	31,500	90
95	69.2	238.4	27,600	70.4	237.4	28,300	71.5	235.2	28,900	95
100	68.0	236.3	25,400	69.1	235.3	26,000	70.3	233.2	26,600	100
105	66.7	234.2	23,400	67.9	233.2	24,000	69.0	231.0	24,500	105
110	65.4	231.9	21,600	66.6	230.9	22,100	67.7	228.6	22,600	110
115	64.2	229.5	19,900	65.3	228.4	20,400	66.4	226.2	20,900	115
120	62.9	226.9	18,400	64.0	225.9	18,900	65.1	223.6	19,300	120
125	61.6	224.2	17,100	62.7	223.1	17,500	63.8	220.8	17,900	125
130	60.2	221.3	15,800	61.4	220.3	16,200	62.4	217.9	16,600	130
135	58.9	218.3	14,700	60.0	217.2	15,100	61.0	214.8	15,400	135
140	57.5	215.1	13,600	58.6	214.0	14,000	59.7	211.6	14,300	140
145	56.1	211.8	12,600	57.2	210.7	13,000	58.2	208.2	13,300	145
150	54.7	208.2	11,700	55.8	207.1	12,000	56.8	204.6	12,300	150
155	53.3	204.5	10,800	54.4	203.4	11,100	55.3	200.8	11,400	155
160	51.8	200.6	10,000	52.9	199.4	10,300	53.9	196.8	10,600	160
165	50.3	196.5	9,300	51.4	195.2	9,500	52.3	192.6	9,800	165
170	48.8	192.1	8,600	49.9	190.8	8,800	50.8	188.1	9,000	170
175	47.2	187.5	7,900	48.3	186.2	8,100	49.2	183.4	8,300	175
180	45.6	182.6	7,300	46.7	181.3	7,500	47.5	178.4	7,700	180
185	44.0	177.4	6,700	45.0	176.1	6,900	45.8	173.1	7,000	185
190	42.3	172.0	6,200	43.3	170.6	6,300	44.1	167.5	6,500	190
195	40.5	166.2	5,600	41.5	164.7	5,800	42.2	161.5	5,900	195
200	38.6	160.0	5,000	39.6	158.5	5,100	40.4	155.1	5,300	200
205	36.7	153.3	4,400	37.7	151.8	4,600	38.4	148.3	4,700	205
210	34.7	146.2	3,900	35.7	144.6	4,000	36.3	140.9	4,100	210
215	32.6	138.5	3,300	33.5	136.8	3,500	34.1	132.9	3,500	215
220				31.2	128.2	3,000	31.7	124.1	3,000	220



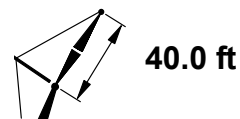
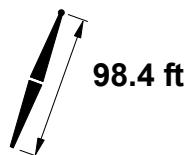
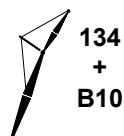
110,500 lb
+
35,000 lb

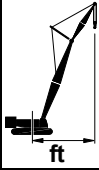
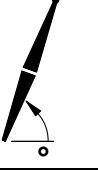
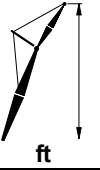
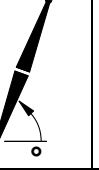
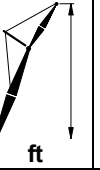


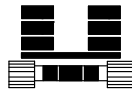
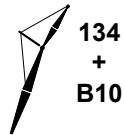
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
34	78.8	134.1	52,400							34
36	77.9	133.6	51,800							36
38	77.0	133.1	51,300							38
40	76.0	132.5	50,700							40
41	75.5	132.2	50,500	78.7	131.1	46,900				41
42	75.1	132.0	50,300	78.2	130.8	46,800				42
44	74.2	131.3	49,800	77.3	130.2	46,400				44
46	73.3	130.7	49,300	76.3	129.5	46,100				46
47	72.5	130.3	49,000	75.5	129.2	46,000	79.0	126.8	31,800	47
48	72.4	130.0	48,800	75.4	128.8	45,800	78.5	126.5	31,400	48
50	71.4	129.2	48,400	74.5	128.1	45,500	77.5	125.7	30,700	50
55	69.1	127.2	47,300	72.1	126.1	44,800	75.1	123.6	29,200	55
60	66.7	125.0	46,300	69.6	123.8	43,000	72.6	121.3	27,800	60
65	64.2	122.5	45,400	67.2	121.3	40,500	70.1	118.7	26,600	65
70	61.7	119.7	44,600	64.6	118.5	38,300	67.5	115.9	25,500	70
75	59.1	116.6	43,700	62.0	115.4	36,400	64.8	112.7	24,500	75
80	56.5	113.2	41,100	59.3	111.9	34,700	62.1	109.1	23,600	80
85	53.7	109.5	37,900	56.5	108.1	33,100	59.2	105.2	22,800	85
90	50.9	105.3	35,100	53.7	103.9	31,800	56.2	100.9	22,000	90
95	47.9	100.7	32,600	50.6	99.2	30,500	53.1	96.0	21,400	95
100	44.7	95.6	30,300	47.4	94.0	29,400	49.8	90.6	20,800	100
105	41.4	89.8	28,300	44.0	88.1	28,400	46.2	84.5	20,300	105
110	37.8	83.3	26,500	40.3	81.5	26,700	42.4	77.5	19,900	110
115	33.8	75.8	24,900	36.3	73.8	25,100	38.0	69.3	19,500	115
120	29.4	67.0	23,400	31.7	64.7	23,500	33.1	59.4	19,300	120
123	26.0	60.7	22,500	28.0	57.8	22,700	29.5	52.2	19,200	123
124	25.3	58.6	22,300	27.0	55.6	22,400				124
125				26.2	53.3	22,100				125

MLC150-1 S-2

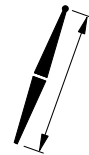
ASME B30.5



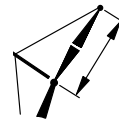
	5°			15°			25°			
										
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
36	78.7	143.8	52,000							36
38	77.9	143.3	51,500							38
40	77.0	142.8	51,000							40
42	76.2	142.2	50,500							42
43	75.5	141.9	50,300	78.6	140.8	46,800				43
44	75.3	141.6	50,100	78.2	140.5	46,600				44
46	74.5	141.0	49,600	77.3	139.9	46,400				46
48	73.6	140.4	49,200	76.5	139.2	46,000				48
49	72.5	140.0	49,000	75.5	138.9	45,900	78.9	136.4	31,800	49
50	72.8	139.7	48,800	75.6	138.5	45,700	78.5	136.1	31,400	50
55	70.6	137.9	47,800	73.4	136.7	45,100	76.3	134.2	29,900	55
60	68.4	135.8	46,900	71.2	134.6	44,500	74.0	132.1	28,500	60
65	66.2	133.5	46,000	68.9	132.3	42,200	71.7	129.7	27,300	65
70	63.9	131.0	45,200	66.6	129.7	40,000	69.3	127.1	26,200	70
75	61.5	128.2	44,400	64.2	126.9	38,000	66.9	124.2	25,200	75
80	59.1	125.1	40,700	61.8	123.8	36,300	64.4	121.0	24,300	80
85	56.7	121.7	37,500	59.3	120.4	34,700	61.9	117.5	23,500	85
90	54.1	118.0	34,700	56.8	116.6	33,200	59.2	113.7	22,800	90
95	51.5	114.0	32,200	54.1	112.5	32,000	56.5	109.5	22,100	95
100	48.8	109.5	29,900	51.3	108.0	30,300	53.6	104.8	21,500	100
105	45.9	104.6	27,900	48.4	103.0	28,200	50.6	99.6	20,900	105
110	42.9	99.1	26,100	45.4	97.5	26,400	47.4	93.9	20,500	110
115	39.7	93.0	24,500	42.1	91.2	24,700	44.0	87.4	20,000	115
120	36.2	86.2	23,000	38.5	84.2	23,200	40.3	80.0	19,700	120
125	32.4	78.3	21,600	34.6	76.1	21,800	36.1	71.3	19,400	125
130	28.1	69.0	20,400	30.2	66.5	20,500	31.3	60.9	19,200	130
132	26.0	64.7	19,900	27.5	61.8	20,000	29.0	56.0	19,200	132
133	25.2	62.5	19,600	26.3	59.5	19,700				133
134				26.0	57.2	19,500				134



110,500 lb
+
35,000 lb



108.3 ft

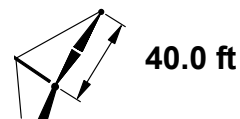
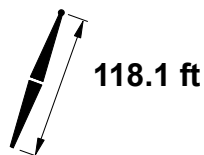
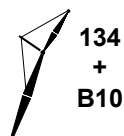


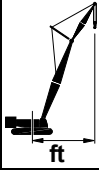
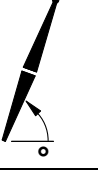
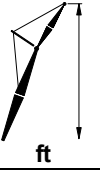
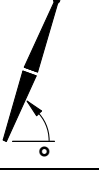
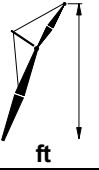
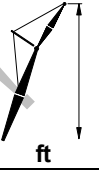
40.0 ft

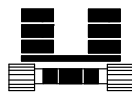
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
38	78.7	153.4	51,600							38
40	77.9	152.9	51,200							40
42	77.1	152.4	50,800							42
44	76.3	151.9	50,300							44
45	75.5	151.6	50,100	78.6	150.4	46,500				45
46	75.5	151.3	49,900	78.2	150.1	46,400				46
48	74.7	150.7	49,500	77.4	149.5	46,200				48
50	73.9	150.1	49,100	76.6	148.9	45,900				50
51	72.6	149.7	48,900	75.6	148.5	45,800	78.9	146.1	31,700	51
55	71.9	148.4	48,200	74.6	147.2	45,300	77.2	144.6	30,600	55
60	69.9	146.5	47,300	72.5	145.2	44,800	75.1	142.7	29,200	60
65	67.8	144.3	46,400	70.4	143.1	43,700	73.0	140.5	28,000	65
70	65.7	142.0	45,600	68.3	140.8	41,500	70.8	138.1	26,900	70
75	63.6	139.5	44,200	66.1	138.2	39,600	68.6	135.5	25,900	75
80	61.4	136.6	40,500	63.9	135.3	37,800	66.4	132.6	25,100	80
85	59.2	133.6	37,200	61.7	132.2	36,100	64.1	129.4	24,200	85
90	56.9	130.2	34,400	59.4	128.9	34,700	61.7	126.0	23,500	90
95	54.5	126.6	31,900	57.0	125.2	32,300	59.2	122.2	22,800	95
100	52.1	122.6	29,700	54.5	121.2	30,100	56.7	118.0	22,100	100
105	49.5	118.3	27,700	51.9	116.8	28,000	54.1	113.5	21,600	105
110	46.9	113.5	25,900	49.3	111.9	26,200	51.3	108.5	21,100	110
115	44.2	108.3	24,200	46.5	106.6	24,500	48.4	103.1	20,600	115
120	41.3	102.5	22,700	43.5	100.8	23,000	45.4	97.0	20,200	120
125	38.1	96.1	21,400	40.3	94.2	21,600	42.0	90.1	19,800	125
130	34.8	88.9	20,100	36.9	86.8	20,300	38.4	82.3	19,500	130
135	31.1	80.6	19,000	33.1	78.3	19,100	34.4	73.2	19,200	135
140	27.0	70.9	17,900	28.8	68.3	18,000	29.7	62.2	18,000	140
142	25.1	66.5	17,500	26.0	63.5	17,600				142
143				25.8	61.1	17,300				143

MLC150-1 S-2

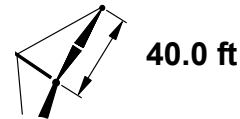
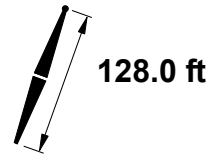
ASME B30.5



	5°			15°			25°			
 ft	 o	 ft	 lb	 o	 ft	 lb	 o	 ft	 lb	 ft
40	78.7	163.0	51,300							40
42	77.9	162.5	50,800							42
44	77.2	162.0	50,400							44
46	76.5	161.5	50,000	79.0	160.3	46,500				46
48	75.7	161.0	49,600	78.2	159.8	46,300				48
50	75.0	160.4	49,300	77.5	159.2	46,000				50
53	73.4	159.4	48,800	75.8	158.2	45,700	78.8	155.7	31,700	53
55	73.1	158.8	48,400	75.6	157.6	45,400	78.1	155.0	31,100	55
60	71.2	157.0	47,500	73.7	155.8	44,900	76.1	153.2	29,800	60
65	69.3	155.0	46,700	71.7	153.8	44,400	74.2	151.2	28,700	65
70	67.3	152.9	46,000	69.7	151.6	42,900	72.2	149.0	27,600	70
75	65.3	150.5	43,800	67.8	149.2	41,000	70.1	146.5	26,600	75
80	63.3	147.9	40,100	65.7	146.6	39,200	68.0	143.9	25,700	80
85	61.3	145.1	36,900	63.6	143.8	37,400	65.9	141.0	24,900	85
90	59.2	142.1	34,000	61.5	140.7	34,600	63.8	137.8	24,100	90
95	57.0	138.7	31,500	59.4	137.3	32,000	61.5	134.4	23,400	95
100	54.8	135.2	29,300	57.1	133.7	29,700	59.3	130.7	22,800	100
105	52.6	131.2	27,300	54.8	129.8	27,700	56.9	126.6	22,300	105
110	50.2	127.0	25,500	52.5	125.5	25,800	54.5	122.2	21,700	110
115	47.8	122.4	23,800	50.0	120.8	24,200	51.9	117.4	21,200	115
120	45.2	117.4	22,300	47.4	115.7	22,600	49.3	112.1	20,800	120
125	42.6	111.9	21,000	44.7	110.1	21,200	46.5	106.3	20,300	125
130	39.8	105.8	19,700	41.8	103.9	20,000	43.5	99.9	20,000	130
135	36.8	99.1	18,600	38.8	97.1	18,800	40.3	92.7	18,900	135
140	33.5	91.5	17,500	35.5	89.3	17,700	36.8	84.5	17,800	140
145	30.0	82.9	16,500	31.8	80.4	16,600	32.8	75.0	16,700	145
149	25.8	74.8	15,800	27.8	72.0	15,900	29.2	66.0	15,900	149
150	25.9	72.7	15,600	27.6	69.9	15,700				150
151	25.0	70.5	15,400	26.0	67.5	15,500				151
152				25.7	65.0	15,300				152



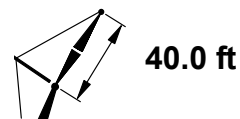
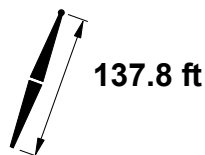
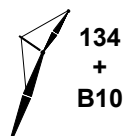
110,500 lb
+
35,000 lb



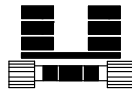
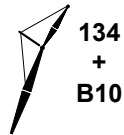
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
41	79.0	172.9	51,000							41
42	78.6	172.7	50,800							42
44	78.0	172.2	50,400							44
46	77.3	171.7	50,100							46
48	76.6	171.2	49,700	78.9	170.0	46,200				48
50	75.9	170.6	49,300	78.2	169.4	46,000				50
55	74.1	169.1	48,600	76.4	167.9	45,500	78.8	165.3	31,600	55
60	72.3	167.5	47,700	74.7	166.2	45,000	77.0	163.6	30,400	60
65	70.5	165.6	47,000	72.8	164.4	44,500	75.2	161.7	29,200	65
70	68.7	163.6	46,300	71.0	162.3	44,100	73.3	159.7	28,200	70
75	66.9	161.4	43,500	69.2	160.1	42,300	71.4	157.4	27,200	75
80	65.0	159.0	39,800	67.3	157.7	40,400	69.5	154.9	26,300	80
85	63.1	156.4	36,500	65.4	155.1	37,100	67.5	152.3	25,500	85
90	61.2	153.6	33,700	63.4	152.2	34,300	65.5	149.4	24,700	90
95	59.2	150.5	31,200	61.4	149.2	31,700	63.5	146.2	24,100	95
100	57.2	147.2	28,900	59.4	145.8	29,400	61.4	142.8	23,400	100
105	55.1	143.7	26,900	57.3	142.2	27,400	59.3	139.1	22,800	105
110	53.0	139.9	25,100	55.1	138.4	25,500	57.1	135.2	22,300	110
115	50.8	135.7	23,500	52.9	134.2	23,800	54.8	130.9	21,800	115
120	48.5	131.2	22,000	50.6	129.6	22,300	52.4	126.2	21,300	120
125	46.2	126.4	20,600	48.2	124.7	20,900	50.0	121.1	20,900	125
130	43.7	121.1	19,400	45.7	119.3	19,600	47.4	115.6	19,900	130
135	41.1	115.3	18,200	43.1	113.4	18,500	44.7	109.5	18,600	135
140	38.4	108.9	17,200	40.3	107.0	17,400	41.8	102.8	17,500	140
145	35.5	101.9	16,200	37.4	99.8	16,300	38.7	95.2	16,500	145
150	32.4	94.0	15,200	34.1	91.7	15,400	35.3	86.7	15,500	150
155	28.9	85.0	14,400	30.6	82.4	14,500	31.5	76.7	14,500	155
158	25.8	78.8	13,900	27.6	75.8	14,000	28.9	69.8	14,000	158
159	25.8	76.7	13,700	26.8	73.6	13,800				159
160				26.5	71.4	13,600				160
161				25.6	69.0	13,500				161

MLC150-1 S-2

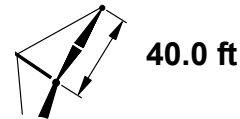
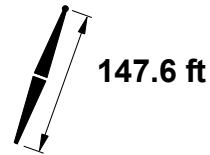
ASME B30.5



	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
43	79.0	182.5	50,500							43
44	78.6	182.3	50,300							44
46	78.0	181.8	50,000							46
48	77.3	181.3	49,600							48
50	76.7	180.8	49,300	78.9	179.6	46,000				50
55	75.0	179.4	48,600	77.2	178.2	45,500				55
57	74.2	178.8	48,300	76.2	177.5	45,300	78.8	174.9	31,600	57
60	73.3	177.9	47,800	75.5	176.6	45,000	77.8	174.0	30,900	60
65	71.7	176.1	47,100	73.8	174.9	44,600	76.0	172.2	29,800	65
70	69.9	174.2	46,400	72.1	173.0	44,200	74.3	170.3	28,700	70
75	68.2	172.2	43,100	70.4	170.9	43,600	72.5	168.2	27,800	75
80	66.5	169.9	39,400	68.6	168.6	40,100	70.7	165.9	26,900	80
85	64.7	167.5	36,200	66.8	166.2	36,800	68.9	163.4	26,100	85
90	62.9	164.9	33,300	65.0	163.5	33,900	67.1	160.7	25,300	90
95	61.1	162.1	30,800	63.2	160.7	31,400	65.2	157.8	24,600	95
100	59.2	159.0	28,600	61.3	157.6	29,100	63.3	154.6	24,000	100
105	57.3	155.7	26,600	59.4	154.3	27,000	61.3	151.3	23,400	105
110	55.4	152.2	24,700	57.4	150.8	25,200	59.3	147.6	22,800	110
115	53.4	148.4	23,100	55.4	146.9	23,500	57.2	143.7	22,300	115
120	51.3	144.4	21,600	53.3	142.8	22,000	55.1	139.5	21,800	120
125	49.2	140.0	20,200	51.2	138.4	20,600	52.9	135.0	20,900	125
130	47.0	135.3	19,000	48.9	133.6	19,300	50.6	130.0	19,600	130
135	44.7	130.2	17,800	46.6	128.4	18,100	48.2	124.7	18,300	135
140	42.3	124.6	16,800	44.2	122.8	17,000	45.7	118.9	17,200	140
145	39.8	118.6	15,800	41.7	116.6	16,000	43.1	112.5	16,200	145
150	37.2	111.9	14,800	39.0	109.9	15,000	40.3	105.5	15,200	150
155	34.4	104.6	14,000	36.1	102.4	14,100	37.3	97.6	14,200	155
160	31.3	96.4	13,200	32.9	94.0	13,300	33.9	88.7	13,400	160
165	27.9	87.0	12,400	29.5	84.3	12,500	30.2	78.4	12,600	165
166	26.3	84.9	12,300	28.2	82.0	12,400	29.4	76.1	12,400	166
168	25.7	80.7	12,000	26.6	77.5	12,100				168
170				25.5	72.9	11,800				170



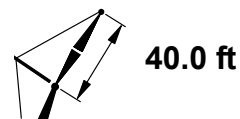
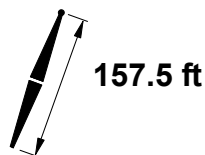
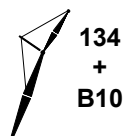
110,500 lb
+
35,000 lb

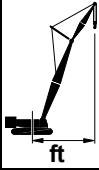
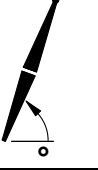
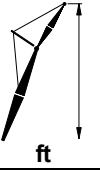
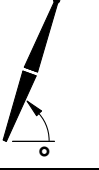
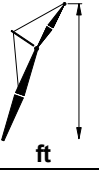
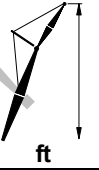


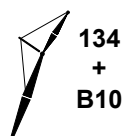
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
45	78.9	192.2	49,900							45
46	78.6	191.9	49,800							46
48	78.0	191.5	49,500							48
50	77.4	191.0	49,200							50
52	76.2	190.4	48,900	78.9	189.2	45,600				52
55	75.8	189.7	48,500	77.9	188.4	45,400				55
59	74.2	188.5	47,900	76.2	187.2	45,000	78.8	184.6	31,600	59
60	74.2	188.2	47,800	76.3	186.9	45,000	78.4	184.3	31,400	60
65	72.6	186.6	47,100	74.7	185.3	44,600	76.8	182.6	30,300	65
70	71.0	184.8	46,500	73.1	183.5	44,200	75.2	180.8	29,200	70
75	69.4	182.8	42,800	71.5	181.5	43,700	73.5	178.8	28,300	75
80	67.8	180.7	39,100	69.8	179.4	39,900	71.8	176.6	27,400	80
85	66.1	178.5	35,900	68.1	177.1	36,600	70.1	174.3	26,600	85
90	64.4	176.0	33,000	66.5	174.7	33,700	68.4	171.8	25,900	90
95	62.7	173.4	30,500	64.7	172.0	31,100	66.7	169.1	25,200	95
100	61.0	170.5	28,300	63.0	169.1	28,800	64.9	166.2	24,500	100
105	59.2	167.5	26,300	61.2	166.1	26,800	63.1	163.1	23,900	105
110	57.4	164.2	24,500	59.4	162.8	24,900	61.2	159.7	23,400	110
115	55.6	160.8	22,800	57.5	159.3	23,200	59.3	156.1	22,800	115
120	53.7	157.0	21,300	55.6	155.5	21,700	57.4	152.3	22,100	120
125	51.8	153.0	20,000	53.7	151.4	20,300	55.4	148.1	20,600	125
130	49.8	148.7	18,700	51.6	147.1	19,000	53.3	143.7	19,300	130
135	47.7	144.1	17,500	49.6	142.4	17,800	51.2	138.9	18,100	135
140	45.6	139.2	16,500	47.4	137.4	16,800	48.9	133.7	17,000	140
145	43.4	133.8	15,500	45.2	132.0	15,700	46.6	128.1	15,900	145
150	41.1	128.0	14,600	42.8	126.1	14,800	44.2	122.1	15,000	150
155	38.6	121.7	13,700	40.3	119.7	13,900	41.6	115.4	14,000	155
160	36.1	114.8	12,900	37.7	112.7	13,100	38.9	108.1	13,200	160
165	33.3	107.2	12,100	34.9	104.9	12,300	36.0	99.9	12,400	165
170	30.3	98.7	11,400	31.9	96.2	11,500	32.7	90.7	11,600	170
175	27.0	89.0	10,800	28.4	86.2	10,800	29.1	79.9	10,900	175
177	25.6	84.7	10,500	26.5	81.5	10,600				177
179				25.4	76.9	10,300				179

MLC150-1 S-2

ASME B30.5



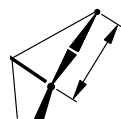
	5°			15°			25°			
 ft	 °	 ft	 lb	 °	 ft	 lb	 °	 ft	 lb	 ft
47	78.9	201.8	49,400							47
48	78.6	201.6	49,200							48
50	78.0	201.1	49,000							50
54	76.4	200.1	48,400	78.8	198.8	45,300				54
55	76.5	199.8	48,300	78.5	198.6	45,200				55
60	75.0	198.5	47,700	77.0	197.2	44,800				60
61	74.6	198.1	47,500	76.6	196.9	44,800	78.7	194.2	31,600	61
65	73.5	196.9	47,000	75.5	195.6	44,500	77.5	192.9	30,700	65
70	72.0	195.2	46,400	74.0	193.9	44,100	76.0	191.2	29,700	70
75	70.5	193.4	42,500	72.4	192.1	43,400	74.4	189.3	28,800	75
80	68.9	191.4	38,800	70.9	190.1	39,600	72.8	187.3	27,900	80
85	67.4	189.3	35,500	69.3	188.0	36,200	71.2	185.1	27,100	85
90	65.8	187.0	32,700	67.7	185.6	33,300	69.6	182.8	26,400	90
95	64.2	184.5	30,100	66.1	183.1	30,800	68.0	180.2	25,700	95
100	62.6	181.9	27,900	64.5	180.5	28,500	66.3	177.5	25,100	100
105	60.9	179.0	25,900	62.8	177.6	26,400	64.6	174.6	24,400	105
110	59.2	176.0	24,100	61.1	174.5	24,600	62.9	171.5	23,900	110
115	57.5	172.7	22,400	59.4	171.3	22,900	61.1	168.2	23,300	115
120	55.8	169.3	20,900	57.6	167.8	21,400	59.3	164.6	21,800	120
125	54.0	165.6	19,600	55.8	164.0	20,000	57.5	160.8	20,300	125
130	52.2	161.6	18,300	54.0	160.1	18,700	55.6	156.7	19,000	130
135	50.3	157.4	17,200	52.1	155.8	17,500	53.6	152.4	17,800	135
140	48.4	152.9	16,100	50.1	151.3	16,400	51.6	147.7	16,700	140
145	46.4	148.1	15,100	48.1	146.4	15,400	49.6	142.7	15,600	145
150	44.3	142.9	14,200	46.0	141.1	14,400	47.4	137.3	14,600	150
155	42.1	137.3	13,300	43.8	135.5	13,500	45.2	131.5	13,700	155
160	39.9	131.3	12,500	41.5	129.3	12,700	42.8	125.1	12,900	160
165	37.5	124.8	11,800	39.1	122.7	11,900	40.3	118.2	12,100	165
170	35.0	117.6	11,000	36.6	115.4	11,200	37.6	110.6	11,300	170
175	32.3	109.7	10,400	33.8	107.3	10,500	34.8	102.1	10,600	175
180	29.4	100.9	9,700	30.8	98.3	9,900	31.6	92.5	9,900	180
183	27.2	94.9	9,400	28.2	92.0	9,500				183
185	26.2	90.8	9,100	27.5	87.9	9,200	29.5	86.1	9,500	185
186	25.5	88.7	9,000	26.3	85.5	9,100				186
188				25.3	80.8	8,900				188



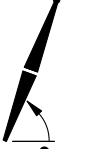
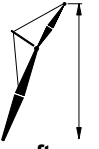
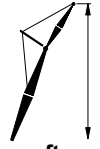
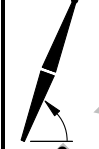
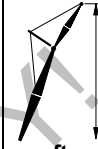
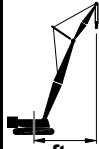
110,500 lb
+
35,000 lb



167.3 ft

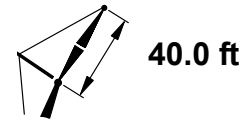
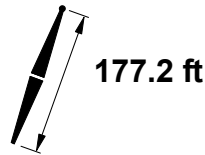
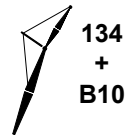


40.0 ft

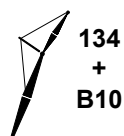
	5°			15°			25°			
										
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
49	78.9	211.4	48,700							49
50	78.6	211.2	48,600							50
55	77.2	210.0	48,000							55
56	76.6	209.7	47,900	78.8	208.5	44,900				56
60	75.8	208.7	47,400	77.7	207.4	44,600				60
62	74.6	208.1	47,200	76.6	206.8	44,500	79.0	204.1	31,800	62
65	74.3	207.2	46,800	76.2	205.9	44,300	78.1	203.2	31,200	65
70	72.9	205.6	46,300	74.8	204.3	44,000	76.7	201.6	30,200	70
75	71.4	203.9	42,200	73.3	202.6	43,100	75.2	199.8	29,300	75
80	70.0	202.0	38,400	71.8	200.7	39,300	73.7	197.9	28,400	80
85	68.5	200.0	35,200	70.4	198.7	35,900	72.2	195.8	27,600	85
90	67.0	197.8	32,300	68.9	196.5	33,000	70.7	193.6	26,900	90
95	65.5	195.5	29,800	67.3	194.1	30,500	69.1	191.2	26,100	95
100	64.0	193.0	27,500	65.8	191.6	28,200	67.5	188.7	25,500	100
105	62.4	190.3	25,500	64.2	188.9	26,100	66.0	185.9	24,900	105
110	60.8	187.5	23,700	62.6	186.1	24,200	64.3	183.0	24,400	110
115	59.2	184.5	22,100	61.0	183.0	22,600	62.7	179.9	23,000	115
120	57.6	181.2	20,600	59.4	179.7	21,000	61.0	176.6	21,500	120
125	56.0	177.8	19,200	57.7	176.3	19,600	59.3	173.1	20,000	125
130	54.3	174.1	18,000	56.0	172.6	18,400	57.6	169.3	18,700	130
135	52.5	170.3	16,800	54.3	168.7	17,200	55.8	165.3	17,500	135
140	50.8	166.1	15,700	52.5	164.5	16,100	54.0	161.0	16,400	140
145	48.9	161.7	14,700	50.6	160.0	15,100	52.1	156.5	15,300	145
150	47.0	157.0	13,800	48.7	155.3	14,100	50.1	151.6	14,300	150
155	45.1	152.0	13,000	46.7	150.2	13,200	48.1	146.4	13,400	155
160	43.1	146.6	12,200	44.7	144.7	12,400	46.0	140.7	12,600	160
165	41.0	140.8	11,400	42.6	138.8	11,600	43.8	134.7	11,800	165
170	38.8	134.5	10,700	40.4	132.5	10,900	41.5	128.1	11,000	170
175	36.5	127.7	10,000	38.0	125.6	10,200	39.1	120.9	10,300	175
180	34.0	120.3	9,400	35.5	118.0	9,500	36.5	113.0	9,600	180
185	31.4	112.1	8,800	32.8	109.6	8,900	33.6	104.3	9,000	185
190	28.6	103.0	8,200	29.9	100.3	8,300	30.5	94.3	8,400	190
192	26.8	98.9	8,000	27.8	96.0	8,100	29.2	89.9	8,100	192
195	25.4	92.6	7,700	26.6	89.6	7,800				195
197				25.2	84.8	7,500				197

MLC150-1 S-2

ASME B30.5



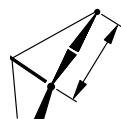
	5°			15°			25°			
	ft	o	ft	lb	ft	o	ft	lb	ft	
51	78.8	221.1	48,100							51
55	77.8	220.1	47,600							55
58	76.4	219.4	47,200	78.8	218.1	44,500				58
60	76.4	218.9	47,000	78.2	217.6	44,300				60
64	75.2	217.8	46,600	76.4	216.5	44,100	79.0	213.8	31,700	64
65	75.1	217.5	46,500	76.9	216.2	44,000	78.7	213.5	31,500	65
70	73.7	216.0	46,000	75.5	214.7	43,700	77.3	211.9	30,500	70
75	72.3	214.3	41,800	74.1	213.0	42,800	75.9	210.2	29,700	75
80	70.9	212.6	38,000	72.7	211.2	39,000	74.5	208.4	28,800	80
85	69.5	210.6	34,800	71.3	209.3	35,600	73.0	206.5	28,100	85
90	68.1	208.6	31,900	69.9	207.2	32,700	71.6	204.4	27,300	90
95	66.7	206.4	29,400	68.4	205.0	30,100	70.1	202.1	26,600	95
100	65.2	204.0	27,200	67.0	202.6	27,800	68.7	199.7	26,000	100
105	63.8	201.5	25,100	65.5	200.1	25,800	67.2	197.1	25,400	105
110	62.3	198.8	23,300	64.0	197.4	23,900	65.7	194.4	24,500	110
115	60.8	196.0	21,700	62.5	194.5	22,200	64.1	191.5	22,700	115
120	59.3	192.9	20,200	61.0	191.5	20,700	62.5	188.4	21,200	120
125	57.7	189.7	18,800	59.4	188.2	19,300	61.0	185.1	19,700	125
130	56.1	186.3	17,600	57.8	184.8	18,000	59.3	181.6	18,400	130
135	54.5	182.7	16,400	56.2	181.1	16,800	57.7	177.8	17,200	135
140	52.9	178.9	15,300	54.5	177.3	15,700	56.0	173.9	16,000	140
145	51.2	174.8	14,300	52.8	173.1	14,700	54.2	169.7	15,000	145
150	49.4	170.4	13,400	51.1	168.8	13,700	52.4	165.2	14,000	150
155	47.7	165.8	12,600	49.3	164.1	12,900	50.6	160.4	13,100	155
160	45.8	160.9	11,800	47.4	159.1	12,000	48.7	155.4	12,300	160
165	43.9	155.7	11,000	45.5	153.8	11,300	46.7	149.9	11,500	165
170	42.0	150.1	10,300	43.5	148.2	10,500	44.7	144.1	10,700	170
175	39.9	144.1	9,600	41.4	142.1	9,800	42.6	137.8	10,000	175
180	37.8	137.6	9,000	39.3	135.5	9,200	40.3	131.0	9,300	180
185	35.5	130.6	8,400	37.0	128.3	8,600	37.9	123.6	8,700	185
190	33.1	122.9	7,800	34.5	120.5	8,000	35.4	115.4	8,100	190
195	30.6	114.5	7,300	31.9	111.9	7,400	32.6	106.3	7,500	195
200	27.8	105.1	6,800	29.0	102.2	6,900	29.6	96.1	6,900	200
201	26.5	102.9	6,700	28.2	100.0	6,800	28.9	93.8	6,800	201
204	25.4	96.6	6,400	25.8	93.4	6,500				204
205				25.8	91.2	6,400				205
206				25.1	88.7	6,300				206



110,500 lb
+
35,000 lb



187.0 ft

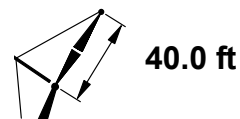
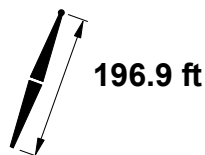
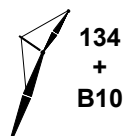


40.0 ft

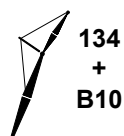
	5°			15°			25°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
53	78.8	230.7	47,200							53
55	78.3	230.2	47,000							55
60	77.0	229.0	46,500	78.8	227.7	43,900				60
65	75.7	227.7	46,100	77.4	226.4	43,600				65
66	74.8	227.4	46,000	76.8	226.1	43,600	78.9	223.4	31,700	66
70	74.4	226.3	45,600	76.1	225.0	43,400	77.9	222.2	31,000	70
75	73.1	224.7	41,500	74.8	223.4	42,500	76.5	220.6	30,100	75
80	71.8	223.0	37,700	73.5	221.7	38,700	75.2	218.9	29,300	80
85	70.5	221.2	34,500	72.2	219.8	35,400	73.8	217.0	28,500	85
90	69.1	219.2	31,600	70.8	217.9	32,400	72.5	215.0	27,800	90
95	67.8	217.1	29,100	69.4	215.8	29,800	71.1	212.9	27,100	95
100	66.4	214.9	26,900	68.1	213.5	27,500	69.7	210.6	26,400	100
105	65.0	212.5	24,800	66.7	211.1	25,500	68.3	208.2	25,800	105
110	63.6	210.0	23,000	65.2	208.6	23,600	66.8	205.6	24,200	110
115	62.2	207.3	21,400	63.8	205.9	21,900	65.4	202.8	22,500	115
120	60.7	204.4	19,900	62.4	203.0	20,400	63.9	199.9	20,900	120
125	59.3	201.4	18,500	60.9	199.9	19,000	62.4	196.8	19,500	125
130	57.8	198.2	17,300	59.4	196.7	17,700	60.9	193.5	18,100	130
135	56.3	194.8	16,100	57.9	193.3	16,500	59.3	190.0	16,900	135
140	54.7	191.2	15,000	56.3	189.7	15,400	57.8	186.4	15,800	140
145	53.2	187.4	14,000	54.7	185.8	14,400	56.1	182.4	14,700	145
150	51.6	183.4	13,100	53.1	181.8	13,500	54.5	178.3	13,800	150
155	49.9	179.2	12,300	51.5	177.5	12,600	52.8	173.9	12,900	155
160	48.2	174.6	11,500	49.8	172.9	11,700	51.1	169.3	12,000	160
165	46.5	169.8	10,700	48.0	168.1	11,000	49.3	164.3	11,200	165
170	44.7	164.7	10,000	46.2	162.9	10,200	47.4	159.0	10,400	170
175	42.9	159.3	9,300	44.3	157.4	9,600	45.5	153.4	9,700	175
180	40.9	153.5	8,700	42.4	151.5	8,900	43.5	147.3	9,100	180
185	38.9	147.3	8,100	40.4	145.2	8,300	41.4	140.8	8,400	185
190	36.9	140.6	7,500	38.2	138.4	7,700	39.2	133.8	7,800	190
195	34.6	133.3	7,000	36.0	131.0	7,200	36.9	126.1	7,200	195
200	32.3	125.4	6,500	33.6	123.0	6,600	34.4	117.7	6,700	200
205	29.8	116.7	6,000	31.0	114.1	6,100	31.7	108.3	6,200	205
209	27.4	109.0	5,600	28.6	106.1	5,700	29.3	99.9	5,800	209
210	27.1	107.0	5,600	28.2	104.1	5,600				210
213	25.3	100.6	5,300	26.2	97.2	5,400				213
215				25.1	92.7	5,200				215

MLC150-1 S-2

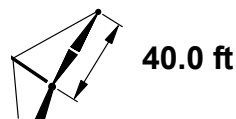
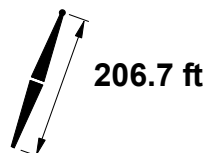
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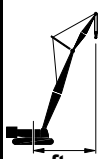
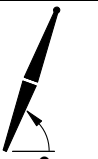
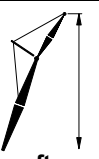
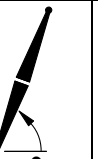
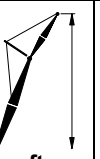
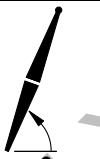
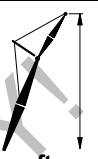
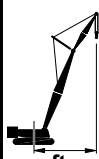


	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
55	78.8	240.3	46,300							55
60	77.6	239.2	45,900							60
61	76.8	238.9	45,800	79.0	237.6	43,400				61
65	76.3	237.9	45,400	78.0	236.6	43,200				65
68	75.4	237.1	45,200	76.4	235.8	43,000	78.9	233.0	31,700	68
70	75.1	236.5	45,000	76.7	235.2	43,000	78.4	232.4	31,400	70
75	73.8	235.0	41,200	75.5	233.7	42,200	77.1	230.9	30,500	75
80	72.6	233.4	37,400	74.2	232.1	38,400	75.8	229.3	29,700	80
85	71.3	231.7	34,100	72.9	230.3	35,000	74.5	227.5	28,900	85
90	70.0	229.8	31,300	71.6	228.5	32,100	73.2	225.6	28,200	90
95	68.7	227.8	28,700	70.3	226.4	29,500	71.9	223.5	27,500	95
100	67.4	225.7	26,500	69.0	224.3	27,200	70.6	221.4	26,900	100
105	66.1	223.4	24,500	67.7	222.0	25,100	69.3	219.1	25,800	105
110	64.8	221.0	22,700	66.4	219.6	23,300	67.9	216.6	23,900	110
115	63.4	218.5	21,000	65.0	217.0	21,600	66.5	214.0	22,200	115
120	62.1	215.8	19,500	63.6	214.3	20,100	65.1	211.3	20,600	120
125	60.7	212.9	18,100	62.2	211.4	18,700	63.7	208.3	19,100	125
130	59.3	209.9	16,900	60.8	208.4	17,400	62.3	205.2	17,800	130
135	57.9	206.7	15,700	59.4	205.2	16,200	60.8	202.0	16,600	135
140	56.4	203.3	14,600	57.9	201.8	15,100	59.3	198.5	15,500	140
145	54.9	199.8	13,700	56.5	198.2	14,000	57.8	194.9	14,400	145
150	53.4	196.0	12,700	54.9	194.4	13,100	56.3	191.0	13,400	150
155	51.9	192.0	11,900	53.4	190.4	12,200	54.7	186.9	12,500	155
160	50.3	187.9	11,100	51.8	186.2	11,400	53.1	182.6	11,700	160
165	48.7	183.4	10,300	50.2	181.7	10,600	51.4	178.0	10,900	165
170	47.1	178.7	9,600	48.5	176.9	9,900	49.8	173.2	10,100	170
175	45.4	173.7	8,900	46.8	171.9	9,200	48.0	168.0	9,400	175
180	43.6	168.5	8,300	45.1	166.6	8,500	46.2	162.6	8,700	180
185	41.8	162.8	7,700	43.2	160.9	7,900	44.3	156.7	8,100	185
190	40.0	156.8	7,200	41.3	154.8	7,300	42.4	150.5	7,500	190
195	38.0	150.4	6,600	39.4	148.3	6,800	40.3	143.7	6,900	195
200	36.0	143.5	6,100	37.3	141.2	6,300	38.2	136.5	6,400	200
205	33.8	136.0	5,600	35.1	133.6	5,800	35.9	128.5	5,900	205
210	31.5	127.9	5,200	32.7	125.3	5,300	33.4	119.9	5,400	210
215	29.1	118.9	4,700	30.2	116.2	4,800	30.8	110.2	4,800	215
218	27.2	112.9	4,400	28.2	110.0	4,500	29.1	103.8	4,500	218
220	26.4	108.9	4,200	27.5	105.9	4,300				220
222	25.2	104.6	4,000	26.0	101.3	4,100				222
224				25.0	96.7	3,900				224



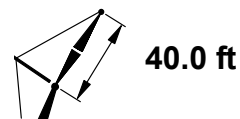
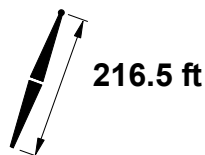
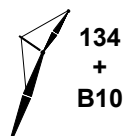
110,500 lb
+
35,000 lb



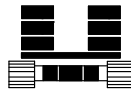
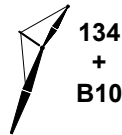
	5°			15°			25°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
56	79.0	250.2	42,700							56
60	78.1	249.3	42,400							60
63	76.8	248.6	42,300	79.0	247.3	40,600				63
65	76.9	248.1	42,200	78.5	246.8	40,500				65
70	75.7	246.8	41,900	77.3	245.4	40,300	78.9	242.6	31,700	70
75	74.5	245.3	40,800	76.1	244.0	40,100	77.7	241.2	30,800	75
80	73.3	243.8	37,100	74.9	242.4	38,100	76.4	239.6	30,000	80
85	72.1	242.1	33,800	73.6	240.8	34,700	75.2	237.9	29,300	85
90	70.8	240.3	30,900	72.4	239.0	31,800	74.0	236.1	28,500	90
95	69.6	238.4	28,400	71.2	237.1	29,200	72.7	234.2	27,900	95
100	68.4	236.4	26,100	69.9	235.0	26,900	71.4	232.1	27,200	100
105	67.1	234.2	24,100	68.7	232.8	24,800	70.2	229.9	25,500	105
110	65.8	232.0	22,300	67.4	230.5	23,000	68.9	227.6	23,600	110
115	64.6	229.5	20,600	66.1	228.1	21,300	67.6	225.1	21,900	115
120	63.3	227.0	19,100	64.8	225.5	19,700	66.2	222.5	20,300	120
125	62.0	224.3	17,800	63.5	222.8	18,300	64.9	219.7	18,800	125
130	60.6	221.4	16,500	62.1	219.9	17,000	63.5	216.8	17,500	130
135	59.3	218.4	15,400	60.8	216.9	15,800	62.2	213.7	16,300	135
140	57.9	215.2	14,300	59.4	213.7	14,700	60.8	210.4	15,200	140
145	56.5	211.8	13,300	58.0	210.3	13,700	59.3	207.0	14,100	145
150	55.1	208.3	12,400	56.6	206.7	12,800	57.9	203.4	13,100	150
155	53.7	204.6	11,500	55.1	203.0	11,900	56.4	199.6	12,200	155
160	52.2	200.7	10,700	53.7	199.0	11,000	54.9	195.5	11,400	160
165	50.7	196.5	9,900	52.1	194.8	10,300	53.4	191.3	10,600	165
170	49.2	192.2	9,200	50.6	190.4	9,500	51.8	186.8	9,800	170
175	47.6	187.6	8,600	49.0	185.8	8,900	50.2	182.0	9,100	175
180	46.0	182.7	7,900	47.4	180.9	8,200	48.5	177.0	8,400	180
185	44.4	177.5	7,300	45.7	175.7	7,600	46.8	171.7	7,800	185
190	42.7	172.1	6,800	44.0	170.1	7,000	45.1	166.0	7,200	190
195	40.9	166.2	6,300	42.2	164.2	6,500	43.2	160.0	6,600	195
200	39.1	160.1	5,700	40.4	158.0	5,900	41.3	153.5	6,100	200
205	37.1	153.4	5,200	38.4	151.2	5,400	39.3	146.6	5,600	205
210	35.1	146.3	4,700	36.4	144.0	4,900	37.2	139.1	5,000	210
215	33.0	138.6	4,200	34.2	136.2	4,300	35.0	130.9	4,400	215
220	30.8	130.2	3,700	31.9	127.6	3,800	32.6	122.0	3,900	220
225	28.4	121.0	3,200	29.5	118.2	3,300	30.0	112.1	3,300	225
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MLC150-1 S-2

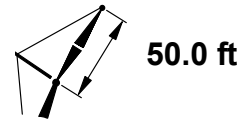
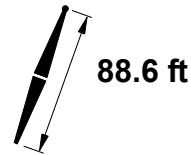
ASME B30.5



	5°			15°			25°			
	ft	o	ft	lb	ft	lb	ft	lb	ft	
58	79.0	259.8	38,700							58
60	78.5	259.4	38,600							60
65	77.4	258.2	38,200	78.9	256.9	36,900				65
70	76.2	257.0	38,000	77.8	255.6	36,700				70
72	75.6	256.4	37,900	76.6	255.1	36,600	78.9	252.3	31,600	72
75	75.1	255.6	37,700	76.6	254.2	36,500	78.2	251.4	31,100	75
80	73.9	254.1	36,700	75.5	252.7	36,300	77.0	249.9	30,400	80
85	72.8	252.5	33,400	74.3	251.1	34,400	75.8	248.3	29,700	85
90	71.6	250.8	30,600	73.1	249.4	31,500	74.6	246.5	28,900	90
95	70.4	249.0	28,000	71.9	247.6	28,900	73.4	244.7	28,300	95
100	69.2	247.0	25,800	70.7	245.6	26,600	72.2	242.7	27,300	100
105	68.0	245.0	23,700	69.5	243.6	24,500	71.0	240.6	25,200	105
110	66.8	242.8	21,900	68.3	241.4	22,600	69.7	238.4	23,300	110
115	65.6	240.5	20,300	67.1	239.0	20,900	68.5	236.0	21,600	115
120	64.4	238.0	18,800	65.8	236.6	19,400	67.2	233.5	20,000	120
125	63.1	235.5	17,400	64.6	234.0	18,000	66.0	230.9	18,500	125
130	61.9	232.7	16,100	63.3	231.3	16,700	64.7	228.1	17,200	130
135	60.6	229.9	15,000	62.0	228.4	15,500	63.4	225.2	16,000	135
140	59.3	226.9	13,900	60.7	225.3	14,400	62.1	222.1	14,800	140
145	58.0	223.7	12,900	59.4	222.1	13,300	60.7	218.9	13,800	145
150	56.6	220.3	12,000	58.1	218.8	12,400	59.3	215.5	12,800	150
155	55.3	216.8	11,100	56.7	215.2	11,500	58.0	211.9	11,900	155
160	53.9	213.1	10,300	55.3	211.5	10,700	56.6	208.1	11,000	160
165	52.5	209.3	9,600	53.9	207.6	9,900	55.1	204.1	10,200	165
170	51.1	205.2	8,800	52.5	203.5	9,200	53.6	199.9	9,500	170
175	49.6	200.9	8,200	51.0	199.2	8,500	52.1	195.5	8,800	175
180	48.1	196.4	7,500	49.5	194.6	7,800	50.6	190.9	8,100	180
185	46.6	191.6	7,000	47.9	189.8	7,200	49.0	185.9	7,400	185
190	45.0	186.5	6,400	46.3	184.7	6,600	47.4	180.7	6,800	190
195	43.4	181.2	5,800	44.7	179.3	6,100	45.7	175.2	6,300	195
200	41.7	175.6	5,200	43.0	173.6	5,500	44.0	169.4	5,700	200
205	40.0	169.6	4,700	41.3	167.5	4,900	42.2	163.1	5,100	205
210	38.2	163.2	4,100	39.4	161.0	4,300	40.3	156.5	4,500	210
215	36.3	156.4	3,600	37.5	154.1	3,800	38.4	149.3	3,900	215
220	34.4	149.0	3,100	35.5	146.7	3,300	36.3	141.6	3,400	220



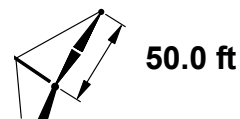
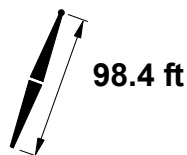
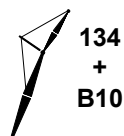
110,500 lb
+
35,000 lb

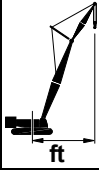
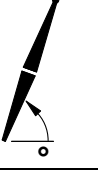
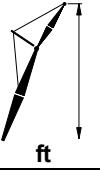
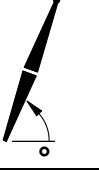
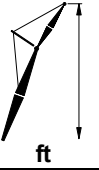
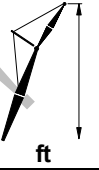


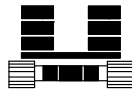
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
37	78.7	143.7	43,400							37
38	78.3	143.4	43,100							38
40	77.5	142.9	42,700							40
42	76.6	142.4	42,200							42
44	75.8	141.8	41,800							44
45	74.5	141.5	41,600	78.9	140.2	38,800				45
46	74.9	141.2	41,400	78.5	139.9	38,700				46
48	74.1	140.5	41,000	77.6	139.3	38,400				48
50	73.2	139.9	40,600	76.8	138.6	38,100				50
54	71.4	138.4	39,800	74.4	137.1	37,500	78.7	134.3	26,000	54
55	71.0	138.0	39,600	74.6	136.7	37,400	78.2	133.9	25,700	55
60	68.8	136.0	38,700	72.3	134.6	36,700	75.9	131.8	24,500	60
65	66.6	133.7	37,900	70.1	132.3	35,500	73.6	129.4	23,400	65
70	64.3	131.1	37,000	67.8	129.8	33,500	71.2	126.8	22,400	70
75	62.0	128.3	36,200	65.4	126.9	31,800	68.8	123.9	21,400	75
80	59.6	125.3	35,500	63.0	123.8	30,300	66.3	120.7	20,600	80
85	57.1	121.9	34,700	60.5	120.4	28,900	63.8	117.2	19,900	85
90	54.6	118.2	33,900	57.9	116.7	27,600	61.1	113.4	19,200	90
95	52.0	114.2	32,200	55.3	112.6	26,500	58.4	109.1	18,600	95
100	49.2	109.7	30,600	52.5	108.0	25,500	55.5	104.5	18,100	100
105	46.4	104.8	28,600	49.6	103.0	24,500	52.5	99.3	17,500	105
110	43.4	99.4	26,800	46.5	97.5	23,600	49.3	93.5	17,000	110
115	40.2	93.3	25,100	43.2	91.3	22,800	45.9	87.0	16,600	115
120	36.7	86.4	23,600	39.7	84.3	22,200	42.1	79.5	16,300	120
125	32.9	78.6	22,300	35.8	76.2	21,500	37.9	70.8	16,000	125
130	28.6	69.4	21,000	31.3	66.6	20,900	33.0	60.3	15,800	130
133	25.7	62.9	20,300	27.4	59.4	20,300	29.5	52.5	15,800	133
135				26.0	54.6	19,900				135

MLC150-1 S-2

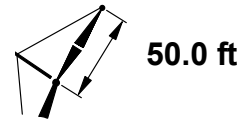
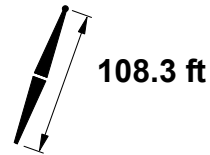
ASME B30.5



	5°			15°			25°			
 ft	 °	 ft	 lb	 °	 ft	 lb	 °	 ft	 lb	 ft
39	78.7	153.3	43,100							39
40	78.3	153.1	42,900							40
42	77.5	152.5	42,400							42
44	76.7	152.0	42,000							44
46	75.9	151.4	41,700							46
47	75.0	151.1	41,500	78.9	149.8	38,700				47
48	75.1	150.8	41,300	78.5	149.5	38,500				48
50	74.3	150.2	40,900	77.7	148.9	38,300				50
55	72.3	148.5	40,000	75.6	147.2	37,600				55
56	71.6	148.1	39,800	74.6	146.8	37,500	78.6	144.0	26,000	56
60	70.3	146.6	39,100	73.6	145.3	37,000	76.9	142.4	25,100	60
65	68.2	144.5	38,300	71.5	143.1	36,300	74.8	140.2	24,000	65
70	66.1	142.2	37,600	69.4	140.8	34,800	72.6	137.8	22,900	70
75	64.0	139.6	36,800	67.2	138.2	33,100	70.4	135.1	22,100	75
80	61.8	136.8	36,000	65.0	135.4	31,500	68.2	132.2	21,300	80
85	59.6	133.8	35,300	62.7	132.3	30,100	65.9	129.1	20,500	85
90	57.3	130.4	34,700	60.4	128.9	28,900	63.5	125.6	19,800	90
95	54.9	126.8	32,400	58.0	125.2	27,700	61.0	121.8	19,200	95
100	52.5	122.8	30,200	55.6	121.2	26,600	58.5	117.7	18,600	100
105	50.0	118.5	28,200	53.0	116.8	25,600	55.8	113.1	18,100	105
110	47.3	113.7	26,400	50.3	112.0	24,700	53.1	108.1	17,600	110
115	44.6	108.5	24,700	47.5	106.7	23,900	50.2	102.6	17,200	115
120	41.7	102.8	23,200	44.6	100.8	23,200	47.1	96.5	16,800	120
125	38.6	96.4	21,900	41.4	94.2	22,100	43.7	89.6	16,400	125
130	35.3	89.2	20,600	38.0	86.8	20,800	40.1	81.7	16,100	130
135	31.6	80.9	19,500	34.2	78.4	19,600	36.0	72.6	15,900	135
140	27.4	71.3	18,400	29.9	68.3	18,500	31.2	61.5	15,800	140
142	25.6	66.9	18,000	27.0	63.4	18,100	29.0	56.2	15,800	142
144				25.8	58.5	17,700				144



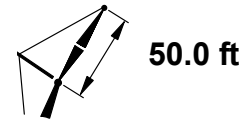
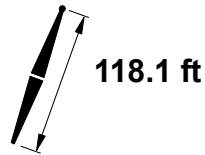
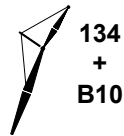
110,500 lb
+
35,000 lb

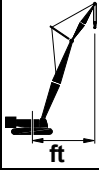
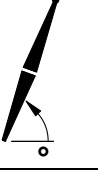
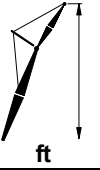
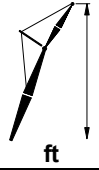
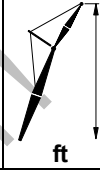


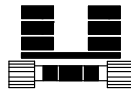
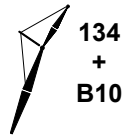
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
41	78.7	162.9	42,800							41
42	78.3	162.7	42,600							42
44	77.6	162.2	42,200							44
46	76.8	161.7	41,800							46
48	76.1	161.1	41,500							48
49	75.5	160.8	41,300	78.8	159.5	38,500				49
50	75.3	160.5	41,100	78.5	159.2	38,400				50
55	73.5	158.9	40,300	76.6	157.6	37,800				55
57	72.2	158.2	39,900	75.2	156.8	37,600	79.0	153.9	26,300	57
60	71.6	157.2	39,400	74.7	155.8	37,200	77.8	152.8	25,500	60
65	69.6	155.2	38,700	72.7	153.8	36,600	75.8	150.8	24,500	65
70	67.7	153.0	37,900	70.8	151.6	36,000	73.8	148.6	23,500	70
75	65.7	150.7	37,200	68.8	149.2	34,300	71.8	146.1	22,600	75
80	63.7	148.1	36,600	66.7	146.6	32,700	69.7	143.5	21,800	80
85	61.7	145.3	35,900	64.7	143.8	31,300	67.6	140.6	21,100	85
90	59.6	142.2	34,700	62.5	140.7	30,000	65.4	137.4	20,400	90
95	57.4	138.9	32,200	60.4	137.3	28,800	63.2	134.0	19,700	95
100	55.2	135.3	29,900	58.1	133.7	27,700	60.9	130.2	19,100	100
105	52.9	131.4	27,900	55.8	129.8	26,700	58.5	126.2	18,600	105
110	50.6	127.2	26,100	53.5	125.5	25,800	56.1	121.7	18,100	110
115	48.2	122.6	24,500	51.0	120.8	24,800	53.5	116.9	17,600	115
120	45.6	117.6	23,000	48.4	115.7	23,300	50.9	111.6	17,200	120
125	43.0	112.1	21,600	45.7	110.1	21,900	48.1	105.8	16,900	125
130	40.2	106.0	20,400	42.9	103.9	20,600	45.1	99.3	16,600	130
135	37.2	99.3	19,200	39.8	97.1	19,400	41.8	92.1	16,300	135
140	34.0	91.8	18,100	36.5	89.3	18,300	38.3	83.9	16,000	140
145	30.4	83.2	17,100	32.8	80.4	17,300	34.3	74.2	15,800	145
150	26.4	73.1	16,200	28.6	69.9	16,300	29.7	62.6	15,800	150
151	25.5	70.8	16,000	27.0	67.4	16,100				151
153				25.7	62.4	15,800				153

MLC150-1 S-2

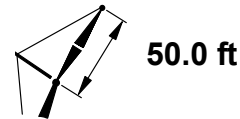
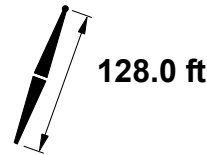
ASME B30.5



	5°			15°			25°			
 ft	 o	 ft	 lb	 o	 ft	 lb	 o	 ft	 lb	 ft
42	79.0	172.8	42,600							42
44	78.3	172.3	42,200							44
46	77.6	171.8	41,900							46
48	76.9	171.3	41,600							48
50	76.2	170.8	41,200							50
51	75.6	170.5	41,100	78.8	169.1	38,400				51
55	74.4	169.3	40,400	77.4	167.9	37,900				55
59	72.4	167.9	39,800	75.4	166.5	37,500	79.0	163.6	26,200	59
60	72.7	167.6	39,600	75.6	166.2	37,400	78.6	163.2	26,000	60
65	70.9	165.8	38,900	73.8	164.4	36,800	76.7	161.3	24,900	65
70	69.1	163.8	38,300	72.0	162.3	36,300	74.9	159.3	24,000	70
75	67.2	161.6	37,600	70.1	160.1	35,400	73.0	157.0	23,100	75
80	65.4	159.2	36,900	68.2	157.7	33,900	71.0	154.5	22,300	80
85	63.5	156.6	36,300	66.3	155.1	32,400	69.1	151.8	21,600	85
90	61.5	153.8	34,300	64.3	152.2	31,000	67.1	148.9	20,900	90
95	59.6	150.7	31,800	62.3	149.1	29,900	65.1	145.8	20,300	95
100	57.5	147.4	29,500	60.3	145.8	28,800	63.0	142.4	19,700	100
105	55.5	143.9	27,500	58.2	142.2	27,800	60.8	138.7	19,200	105
110	53.3	140.0	25,700	56.1	138.3	26,200	58.6	134.7	18,700	110
115	51.2	135.9	24,100	53.9	134.1	24,500	56.3	130.4	18,200	115
120	48.9	131.4	22,600	51.6	129.6	23,000	54.0	125.7	17,800	120
125	46.5	126.6	21,200	49.2	124.7	21,600	51.5	120.6	17,400	125
130	44.1	121.3	20,000	46.7	119.3	20,300	48.9	115.0	17,000	130
135	41.5	115.5	18,800	44.1	113.4	19,100	46.2	108.9	16,700	135
140	38.8	109.2	17,700	41.3	106.9	18,000	43.3	102.1	16,400	140
145	35.9	102.1	16,700	38.3	99.8	17,000	40.1	94.5	16,100	145
150	32.8	94.3	15,800	35.1	91.7	16,000	36.7	85.9	15,900	150
155	29.3	85.3	14,900	31.5	82.4	15,100	32.8	75.8	15,200	155
159	25.8	76.9	14,300	27.8	73.6	14,400	29.2	66.3	14,400	159
160	25.4	74.8	14,100	27.4	71.4	14,200				160
162				25.6	66.3	13,900				162



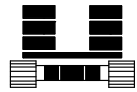
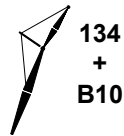
110,500 lb
+
35,000 lb



	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
44	78.9	182.4	42,200							44
46	78.3	182.0	41,900							46
48	77.6	181.5	41,600							48
50	77.0	181.0	41,300							50
53	75.4	180.1	40,800	78.8	178.7	38,100				53
55	75.3	179.6	40,500	78.1	178.1	38,000				55
60	73.7	178.0	39,800	76.4	176.6	37,500				60
61	72.6	177.7	39,700	75.6	176.2	37,400	78.9	173.2	26,200	61
65	72.0	176.3	39,100	74.7	174.8	36,900	77.5	171.8	25,400	65
70	70.3	174.4	38,400	73.0	172.9	36,500	75.8	169.8	24,400	70
75	68.6	172.3	37,800	71.3	170.9	36,000	74.0	167.7	23,600	75
80	66.8	170.1	37,200	69.5	168.6	34,900	72.2	165.4	22,800	80
85	65.0	167.7	36,600	67.7	166.2	33,500	70.4	162.9	22,000	85
90	63.2	165.1	33,900	65.9	163.5	32,100	68.5	160.2	21,400	90
95	61.4	162.2	31,400	64.1	160.7	30,900	66.6	157.3	20,700	95
100	59.5	159.2	29,200	62.2	157.6	29,800	64.7	154.1	20,200	100
105	57.6	155.9	27,200	60.3	154.3	27,700	62.8	150.8	19,600	105
110	55.7	152.4	25,400	58.3	150.7	25,900	60.7	147.1	19,100	110
115	53.7	148.6	23,700	56.3	146.9	24,200	58.7	143.2	18,700	115
120	51.7	144.6	22,200	54.2	142.8	22,700	56.5	139.0	18,300	120
125	49.5	140.2	20,900	52.0	138.3	21,300	54.3	134.4	17,800	125
130	47.3	135.5	19,600	49.8	133.5	20,000	52.0	129.4	17,400	130
135	45.1	130.4	18,400	47.5	128.4	18,800	49.6	124.1	17,100	135
140	42.7	124.8	17,400	45.1	122.7	17,700	47.1	118.2	16,800	140
145	40.2	118.8	16,400	42.6	116.6	16,600	44.5	111.8	16,500	145
150	37.6	112.2	15,500	39.9	109.8	15,700	41.6	104.7	15,900	150
155	34.7	104.9	14,600	37.0	102.3	14,800	38.6	96.8	14,900	155
160	31.7	96.7	13,800	33.8	93.9	14,000	35.2	87.8	14,100	160
165	28.3	87.4	13,000	30.3	84.3	13,200	31.4	77.3	13,200	165
168	25.8	80.9	12,600	27.6	77.4	12,700	28.9	70.0	12,700	168
169	25.3	78.8	12,400	26.8	75.1	12,600				169
170				26.3	72.8	12,400				170
171				25.4	70.3	12,300				171

MLC150-1 S-2

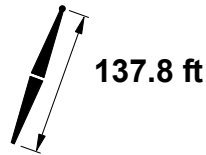
ASME B30.5



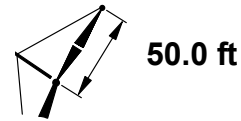
110,500 lb
+
35,000 lb



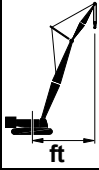
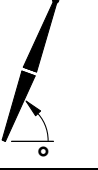
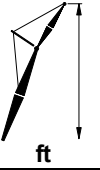
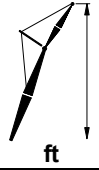
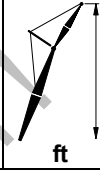
360°

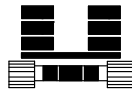
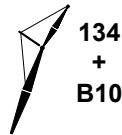


137.8 ft

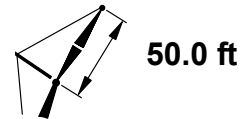
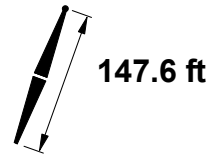


50.0 ft

	5°			15°			25°			
										
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
46	78.9	192.1	41,800							46
48	78.3	191.6	41,600							48
50	77.7	191.1	41,200							50
55	76.1	189.8	40,500	78.8	188.4	37,900				55
60	74.5	188.3	39,900	77.2	186.9	37,500				60
63	72.8	187.3	39,500	75.8	185.9	37,200	78.9	182.8	26,100	63
65	72.9	186.7	39,200	75.6	185.2	37,000	78.2	182.1	25,800	65
70	71.3	184.9	38,600	73.9	183.4	36,600	76.6	180.3	24,900	70
75	69.7	183.0	38,000	72.3	181.5	36,200	74.9	178.3	24,000	75
80	68.1	180.9	37,400	70.7	179.4	35,700	73.2	176.2	23,200	80
85	66.4	178.6	36,400	69.0	177.1	34,400	71.5	173.8	22,500	85
90	64.8	176.2	33,600	67.3	174.6	33,100	69.8	171.3	21,800	90
95	63.0	173.5	31,000	65.6	172.0	31,700	68.0	168.6	21,200	95
100	61.3	170.7	28,800	63.8	169.1	29,500	66.3	165.7	20,600	100
105	59.5	167.7	26,800	62.0	166.0	27,400	64.4	162.5	20,100	105
110	57.7	164.4	25,000	60.2	162.7	25,500	62.6	159.2	19,600	110
115	55.9	160.9	23,300	58.4	159.2	23,800	60.7	155.6	19,100	115
120	54.0	157.2	21,800	56.5	155.4	22,300	58.7	151.7	18,600	120
125	52.1	153.2	20,500	54.5	151.4	20,900	56.7	147.5	18,300	125
130	50.1	148.9	19,200	52.5	147.1	19,600	54.6	143.1	17,900	130
135	48.0	144.3	18,100	50.4	142.4	18,400	52.5	138.3	17,500	135
140	45.9	139.4	17,000	48.2	137.4	17,300	50.3	133.1	17,200	140
145	43.7	134.0	16,000	46.0	131.9	16,300	47.9	127.5	16,600	145
150	41.4	128.2	15,100	43.7	126.1	15,300	45.5	121.3	15,600	150
155	39.0	122.0	14,200	41.2	119.6	14,400	42.9	114.7	14,600	155
160	36.4	115.1	13,400	38.6	112.6	13,600	40.2	107.3	13,800	160
165	33.7	107.5	12,600	35.7	104.8	12,800	37.2	99.0	12,900	165
170	30.7	99.0	11,900	32.7	96.1	12,100	33.9	89.7	12,200	170
175	27.4	89.3	11,200	29.3	86.1	11,400	30.2	78.8	11,400	175
176	26.3	87.1	11,100	28.2	83.7	11,200	29.4	76.3	11,300	176
178	25.2	82.8	10,900	26.6	78.9	11,000				178
180				25.4	74.2	10,700				180



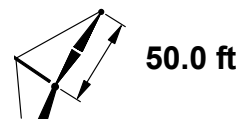
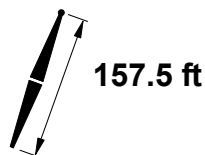
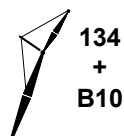
110,500 lb
+
35,000 lb

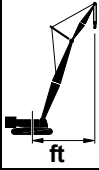
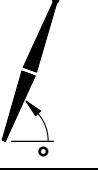
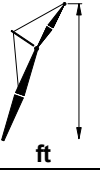
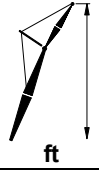
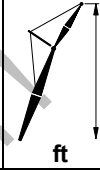


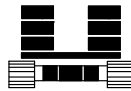
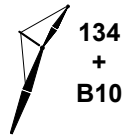
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
48	78.9	201.7	41,400							48
50	78.3	201.2	41,100							50
55	76.8	200.0	40,500							55
57	75.6	199.4	40,200	78.7	198.0	37,700				57
60	75.3	198.6	39,900	77.8	197.1	37,500				60
65	73.8	197.1	39,200	76.3	195.6	37,100	78.8	192.4	26,200	65
70	72.3	195.4	38,600	74.8	193.9	36,600	77.3	190.7	25,200	70
75	70.8	193.6	38,100	73.2	192.1	36,200	75.7	188.8	24,400	75
80	69.2	191.6	37,600	71.7	190.1	35,900	74.1	186.8	23,700	80
85	67.7	189.4	36,100	70.1	187.9	35,400	72.5	184.6	22,900	85
90	66.1	187.1	33,300	68.5	185.6	34,000	70.9	182.2	22,200	90
95	64.5	184.7	30,700	66.9	183.1	31,500	69.3	179.7	21,600	95
100	62.9	182.0	28,500	65.3	180.4	29,200	67.6	177.0	21,100	100
105	61.2	179.2	26,500	63.6	177.5	27,100	65.9	174.1	20,500	105
110	59.5	176.1	24,700	61.9	174.5	25,300	64.2	170.9	20,000	110
115	57.8	172.9	23,000	60.2	171.2	23,600	62.4	167.6	19,500	115
120	56.1	169.4	21,500	58.4	167.7	22,000	60.6	164.0	19,100	120
125	54.3	165.8	20,200	56.6	164.0	20,600	58.8	160.2	18,700	125
130	52.5	161.8	18,900	54.8	160.0	19,400	56.9	156.1	18,300	130
135	50.6	157.6	17,800	52.9	155.7	18,200	54.9	151.7	17,900	135
140	48.7	153.1	16,700	50.9	151.2	17,100	52.9	147.0	17,400	140
145	46.7	148.3	15,700	48.9	146.3	16,000	50.8	142.0	16,300	145
150	44.6	143.1	14,800	46.8	141.0	15,100	48.6	136.6	15,400	150
155	42.5	137.6	13,900	44.6	135.4	14,200	46.4	130.7	14,400	155
160	40.2	131.5	13,100	42.3	129.3	13,400	44.0	124.4	13,600	160
165	37.9	125.0	12,300	39.9	122.6	12,600	41.5	117.4	12,700	165
170	35.4	117.9	11,600	37.4	115.3	11,800	38.8	109.7	12,000	170
175	32.7	110.0	11,000	34.6	107.2	11,100	35.9	101.2	11,200	175
180	29.8	101.2	10,300	31.6	98.2	10,500	32.7	91.5	10,500	180
185	26.6	91.2	9,700	28.3	87.8	9,800	29.1	80.1	9,900	185
187	25.2	86.7	9,500	26.5	83.0	9,600				187
189				25.3	78.1	9,400				189

MLC150-1 S-2

ASME B30.5



	5°			15°			25°			
										
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
50	78.9	211.3	40,900							50
55	77.4	210.1	40,300							55
58	76.4	209.3	40,000	79.0	207.9	37,500				58
60	76.0	208.8	39,700	78.4	207.3	37,400				60
65	74.6	207.4	39,100	77.0	205.9	37,000				65
67	73.6	206.7	38,900	75.6	205.2	36,900	78.8	202.1	26,100	67
70	73.2	205.8	38,600	75.5	204.3	36,600	77.9	201.1	25,600	70
75	71.7	204.1	38,100	74.1	202.5	36,200	76.5	199.3	24,800	75
80	70.3	202.2	37,500	72.6	200.6	35,900	75.0	197.4	24,000	80
85	68.8	200.2	35,800	71.1	198.6	35,500	73.4	195.3	23,300	85
90	67.3	198.0	32,900	69.6	196.4	33,800	71.9	193.1	22,700	90
95	65.8	195.7	30,400	68.1	194.1	31,200	70.4	190.7	22,000	95
100	64.3	193.2	28,100	66.6	191.5	28,900	68.8	188.1	21,500	100
105	62.7	190.5	26,100	65.0	188.9	26,800	67.2	185.4	21,000	105
110	61.1	187.6	24,300	63.4	186.0	24,900	65.6	182.4	20,400	110
115	59.5	184.6	22,700	61.8	182.9	23,200	63.9	179.3	19,900	115
120	57.9	181.4	21,200	60.1	179.7	21,700	62.3	176.0	19,500	120
125	56.3	178.0	19,800	58.5	176.2	20,300	60.5	172.5	19,100	125
130	54.6	174.3	18,500	56.8	172.5	19,000	58.8	168.7	18,700	130
135	52.8	170.4	17,400	55.0	168.6	17,800	57.0	164.7	18,200	135
140	51.0	166.3	16,300	53.2	164.4	16,700	55.2	160.4	17,100	140
145	49.2	161.9	15,300	51.4	159.9	15,700	53.3	155.8	16,000	145
150	47.3	157.2	14,400	49.5	155.2	14,700	51.3	150.9	15,000	150
155	45.4	152.2	13,500	47.5	150.1	13,800	49.3	145.6	14,100	155
160	43.4	146.8	12,700	45.5	144.6	13,000	47.2	140.0	13,300	160
165	41.3	141.0	12,000	43.3	138.7	12,200	45.0	133.9	12,400	165
170	39.1	134.7	11,200	41.1	132.4	11,500	42.6	127.3	11,700	170
175	36.8	128.0	10,600	38.7	125.5	10,800	40.2	120.0	10,900	175
180	34.4	120.6	9,900	36.3	117.9	10,100	37.6	112.1	10,300	180
185	31.8	112.4	9,300	33.6	109.5	9,500	34.7	103.2	9,600	185
190	28.9	103.3	8,800	30.6	100.2	8,900	31.6	93.2	9,000	190
194	25.6	95.0	8,300	27.6	91.6	8,500				194
195	25.8	93.0	8,200	27.4	89.4	8,300	28.8	83.9	8,500	195
196	25.1	90.7	8,100	26.3	87.0	8,200				196
198				25.2	82.1	8,000				198



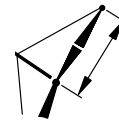
110,500 lb
+
35,000 lb



360°



167.3 ft

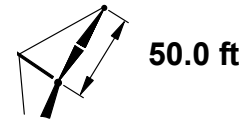
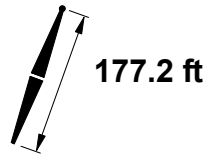
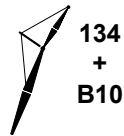


50.0 ft

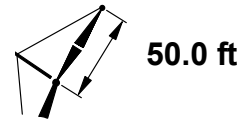
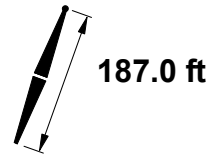
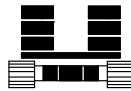
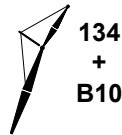
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
52	78.8	221.0	40,500							52
55	78.0	220.3	40,100							55
60	76.7	219.0	39,600	79.0	217.5	37,200				60
65	75.3	217.6	39,000	77.6	216.1	36,900				65
69	73.4	216.4	38,600	76.2	214.9	36,600	78.8	211.7	26,100	69
70	74.0	216.1	38,500	76.2	214.6	36,500	78.5	211.4	25,900	70
75	72.6	214.5	38,000	74.8	212.9	36,200	77.1	209.7	25,100	75
80	71.2	212.7	37,500	73.4	211.2	35,900	75.7	207.9	24,400	80
85	69.8	210.8	35,400	72.0	209.2	35,500	74.3	205.9	23,700	85
90	68.4	208.7	32,600	70.6	207.1	33,500	72.8	203.8	23,000	90
95	67.0	206.5	30,000	69.2	204.9	30,900	71.3	201.5	22,400	95
100	65.5	204.2	27,800	67.7	202.5	28,600	69.9	199.1	21,900	100
105	64.0	201.6	25,800	66.2	200.0	26,500	68.4	196.5	21,300	105
110	62.6	199.0	23,900	64.7	197.3	24,600	66.8	193.8	20,800	110
115	61.1	196.1	22,300	63.2	194.4	22,900	65.3	190.9	20,400	115
120	59.5	193.1	20,800	61.7	191.4	21,400	63.7	187.7	19,900	120
125	58.0	189.9	19,400	60.1	188.1	20,000	62.1	184.4	19,400	125
130	56.4	186.5	18,200	58.5	184.7	18,700	60.5	180.9	19,100	130
135	54.8	182.9	17,000	56.9	181.0	17,500	58.8	177.2	17,900	135
140	53.1	179.0	15,900	55.2	177.2	16,400	57.1	173.2	16,800	140
145	51.5	175.0	14,900	53.5	173.1	15,400	55.4	169.0	15,700	145
150	49.7	170.6	14,000	51.8	168.7	14,400	53.6	164.5	14,700	150
155	48.0	166.0	13,200	50.0	164.0	13,500	51.7	159.7	13,800	155
160	46.1	161.1	12,300	48.1	159.0	12,700	49.8	154.6	13,000	160
165	44.2	155.9	11,600	46.2	153.7	11,900	47.8	149.1	12,200	165
170	42.3	150.3	10,900	44.2	148.1	11,200	45.8	143.3	11,400	170
175	40.2	144.3	10,200	42.1	142.0	10,500	43.6	136.9	10,700	175
180	38.1	137.8	9,600	40.0	135.4	9,800	41.4	130.1	10,000	180
185	35.8	130.8	9,000	37.7	128.2	9,200	39.0	122.6	9,300	185
190	33.5	123.2	8,400	35.2	120.4	8,600	36.4	114.4	8,700	190
195	30.9	114.7	7,900	32.6	111.8	8,000	33.6	105.2	8,100	195
200	28.1	105.4	7,400	29.7	102.1	7,500	30.5	94.8	7,500	200
202	26.8	101.1	7,200	27.8	97.6	7,300	29.2	90.2	7,300	202
205	25.0	94.7	6,900	26.5	91.0	7,000				205
207				25.1	86.0	6,800				207

MLC150-1 S-2

ASME B30.5



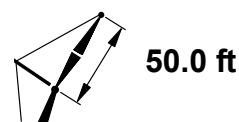
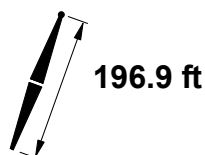
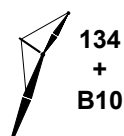
	5°			15°			25°			
	ft	o	ft	lb	ft	o	ft	lb	ft	
54	78.8	230.6	39,900							54
55	78.5	230.4	39,800							55
60	77.3	229.2	39,300							60
62	76.2	228.7	39,100	78.9	227.1	36,900				62
65	76.0	227.9	38,800	78.1	226.3	36,700				65
70	74.7	226.4	38,300	76.8	224.9	36,300				70
71	73.8	226.1	38,200	75.8	224.6	36,300	78.8	221.3	26,100	71
75	73.4	224.9	37,800	75.5	223.3	36,000	77.7	220.0	25,500	75
80	72.0	223.2	37,400	74.2	221.6	35,800	76.3	218.3	24,700	80
85	70.7	221.3	35,100	72.8	219.8	35,400	75.0	216.4	24,000	85
90	69.4	219.4	32,200	71.5	217.8	33,200	73.6	214.4	23,400	90
95	68.0	217.3	29,700	70.1	215.7	30,500	72.2	212.3	22,800	95
100	66.6	215.1	27,400	68.7	213.4	28,200	70.8	210.0	22,200	100
105	65.3	212.7	25,400	67.4	211.0	26,200	69.4	207.5	21,700	105
110	63.9	210.1	23,600	65.9	208.5	24,300	68.0	205.0	21,200	110
115	62.4	207.4	21,900	64.5	205.8	22,600	66.5	202.2	20,700	115
120	61.0	204.6	20,400	63.1	202.9	21,000	65.0	199.3	20,200	120
125	59.5	201.6	19,000	61.6	199.8	19,600	63.5	196.2	19,900	125
130	58.0	198.4	17,800	60.1	196.6	18,300	62.0	192.9	18,900	130
135	56.5	195.0	16,600	58.6	193.2	17,100	60.4	189.4	17,600	135
140	55.0	191.4	15,500	57.0	189.6	16,000	58.9	185.7	16,500	140
145	53.4	187.6	14,500	55.4	185.7	15,000	57.2	181.8	15,400	145
150	51.8	183.6	13,600	53.8	181.7	14,000	55.6	177.6	14,400	150
155	50.2	179.3	12,800	52.1	177.4	13,200	53.9	173.2	13,500	155
160	48.5	174.8	12,000	50.4	172.8	12,300	52.1	168.5	12,600	160
165	46.8	170.0	11,200	48.7	168.0	11,500	50.3	163.5	11,800	165
170	45.0	164.9	10,500	46.9	162.8	10,800	48.5	158.2	11,100	170
175	43.1	159.5	9,800	45.0	157.3	10,100	46.5	152.5	10,300	175
180	41.2	153.7	9,200	43.1	151.4	9,500	44.5	146.4	9,700	180
185	39.2	147.5	8,600	41.0	145.1	8,800	42.4	139.9	9,000	185
190	37.1	140.8	8,000	38.9	138.3	8,200	40.2	132.8	8,400	190
195	34.9	133.6	7,500	36.7	130.9	7,700	37.9	125.1	7,800	195
200	32.6	125.7	7,000	34.3	122.8	7,200	35.3	116.6	7,300	200
205	30.1	117.0	6,500	31.7	113.9	6,600	32.6	107.1	6,700	205
210	27.4	107.3	6,000	28.9	103.9	6,200	29.6	96.4	6,200	210
211	26.3	105.2	5,900	27.4	101.6	6,100	28.9	94.0	6,100	211
213	25.6	100.9	5,800	26.2	97.1	5,900				213
215				25.7	92.5	5,700				215
216				25.1	90.0	5,600				216



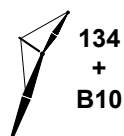
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
56	78.8	240.2	39,300							56
60	77.8	239.3	38,900							60
64	76.2	238.3	38,500	78.9	236.8	36,500				64
65	76.6	238.1	38,400	78.7	236.5	36,400				65
70	75.3	236.7	38,100	77.4	235.1	36,100				70
72	74.6	236.1	37,900	76.6	234.5	36,000	79.0	231.3	26,200	72
75	74.1	235.2	37,600	76.1	233.6	35,900	78.2	230.3	25,800	75
80	72.8	233.6	37,200	74.9	232.0	35,600	76.9	228.7	25,000	80
85	71.5	231.8	34,700	73.6	230.2	35,300	75.7	226.9	24,400	85
90	70.3	230.0	31,900	72.3	228.4	32,900	74.3	225.0	23,700	90
95	69.0	228.0	29,300	71.0	226.4	30,300	73.0	222.9	23,100	95
100	67.7	225.8	27,100	69.7	224.2	28,000	71.7	220.8	22,600	100
105	66.3	223.6	25,100	68.4	221.9	25,900	70.3	218.5	22,000	105
110	65.0	221.2	23,300	67.0	219.5	24,000	69.0	216.0	21,500	110
115	63.7	218.6	21,600	65.7	216.9	22,300	67.6	213.4	21,100	115
120	62.3	215.9	20,100	64.3	214.2	20,800	66.2	210.6	20,600	120
125	60.9	213.1	18,700	62.9	211.3	19,300	64.8	207.7	19,900	125
130	59.5	210.1	17,500	61.5	208.3	18,000	63.3	204.6	18,600	130
135	58.1	206.9	16,300	60.1	205.1	16,800	61.9	201.3	17,400	135
140	56.7	203.5	15,200	58.6	201.7	15,700	60.4	197.8	16,200	140
145	55.2	199.9	14,200	57.1	198.1	14,700	58.9	194.2	15,200	145
150	53.7	196.2	13,300	55.6	194.3	13,800	57.3	190.3	14,200	150
155	52.2	192.2	12,400	54.1	190.3	12,900	55.8	186.2	13,300	155
160	50.6	188.0	11,600	52.5	186.1	12,000	54.1	181.9	12,400	160
165	49.0	183.6	10,900	50.9	181.6	11,300	52.5	177.3	11,600	165
170	47.4	178.9	10,200	49.2	176.8	10,500	50.8	172.4	10,800	170
175	45.7	173.9	9,500	47.5	171.8	9,800	49.0	167.2	10,100	175
180	43.9	168.7	8,900	45.7	166.4	9,200	47.2	161.7	9,400	180
185	42.1	163.0	8,300	43.9	160.7	8,600	45.3	155.8	8,800	185
190	40.2	157.0	7,700	42.0	154.7	8,000	43.3	149.5	8,200	190
195	38.3	150.6	7,200	40.0	148.1	7,400	41.3	142.8	7,600	195
200	36.2	143.7	6,700	37.9	141.1	6,900	39.1	135.4	7,000	200
205	34.1	136.3	6,200	35.7	133.5	6,400	36.8	127.5	6,500	205
210	31.8	128.1	5,700	33.4	125.2	5,900	34.3	118.7	6,000	210
215	29.3	119.2	5,300	30.9	116.0	5,400	31.7	108.9	5,500	215
220	26.7	109.2	4,900	28.1	105.7	5,000	28.7	97.9	5,000	220
222	25.5	104.9	4,700	26.8	101.0	4,800				222
225				25.0	93.9	4,500				225

MLC150-1 S-2

ASME B30.5



	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
57	79.0	250.1	38,800							57
60	78.3	249.4	38,500							60
65	77.1	248.2	38,100							65
66	76.6	247.9	38,000	78.9	246.4	36,000				66
70	75.9	246.9	37,700	77.9	245.3	35,900				70
74	74.2	245.7	37,300	76.2	244.2	35,700	79.0	240.9	26,200	74
75	74.7	245.5	37,300	76.7	243.9	35,600	78.7	240.6	26,000	75
80	73.5	243.9	36,800	75.5	242.3	35,300	77.5	239.0	25,300	80
85	72.3	242.3	34,400	74.3	240.7	35,100	76.3	237.3	24,700	85
90	71.1	240.5	31,500	73.0	238.9	32,600	75.0	235.5	24,000	90
95	69.8	238.6	29,000	71.8	237.0	30,000	73.8	233.5	23,500	95
100	68.6	236.5	26,700	70.6	234.9	27,600	72.5	231.5	22,900	100
105	67.3	234.4	24,700	69.3	232.7	25,600	71.2	229.3	22,400	105
110	66.1	232.1	22,900	68.0	230.4	23,700	69.9	226.9	21,900	110
115	64.8	229.7	21,200	66.7	228.0	22,000	68.6	224.4	21,400	115
120	63.5	227.1	19,700	65.4	225.4	20,400	67.3	221.8	21,000	120
125	62.2	224.4	18,300	64.1	222.7	19,000	65.9	219.0	19,600	125
130	60.9	221.5	17,100	62.8	219.8	17,700	64.6	216.1	18,300	130
135	59.5	218.5	15,900	61.4	216.8	16,500	63.2	213.0	17,100	135
140	58.2	215.4	14,800	60.0	213.6	15,400	61.8	209.7	15,900	140
145	56.8	212.0	13,800	58.6	210.2	14,400	60.4	206.3	14,800	145
150	55.4	208.5	12,900	57.2	206.6	13,400	58.9	202.7	13,900	150
155	53.9	204.8	12,100	55.8	202.9	12,500	57.4	198.8	12,900	155
160	52.5	200.8	11,300	54.3	198.9	11,700	55.9	194.8	12,100	160
165	51.0	196.7	10,500	52.8	194.7	10,900	54.4	190.5	11,300	165
170	49.4	192.3	9,800	51.2	190.3	10,200	52.8	186.0	10,500	170
175	47.9	187.7	9,100	49.7	185.7	9,500	51.2	181.2	9,800	175
180	46.3	182.9	8,500	48.0	180.7	8,800	49.5	176.2	9,100	180
185	44.6	177.7	7,900	46.4	175.5	8,200	47.8	170.8	8,400	185
190	42.9	172.3	7,300	44.6	170.0	7,600	46.0	165.1	7,800	190
195	41.2	166.5	6,800	42.8	164.1	7,100	44.2	159.0	7,300	195
200	39.3	160.3	6,300	41.0	157.8	6,500	42.2	152.5	6,700	200
205	37.4	153.6	5,800	39.0	151.1	6,000	40.2	145.6	6,200	205
210	35.4	146.5	5,300	37.0	143.8	5,500	38.1	138.0	5,700	210
215	33.3	138.9	4,900	34.8	136.0	5,100	35.8	129.8	5,200	215
220	31.1	130.5	4,400	32.5	127.4	4,600	33.4	120.8	4,700	220
225	28.6	121.3	3,900	30.1	118.0	4,100	30.8	110.7	4,100	225
228	26.8	115.2	3,600	28.2	111.7	3,800	29.1	104.1	3,800	228
230	26.0	111.1	3,400	27.4	107.4	3,600				230
231	25.5	108.9	3,300	26.3	105.1	3,500				231
233				25.6	100.4	3,300				233



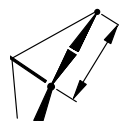
110,500 lb
+
35,000 lb



360°



206.7 ft

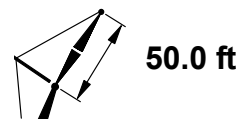
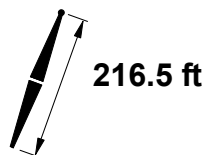
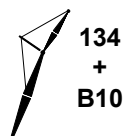


50.0 ft

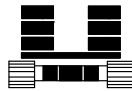
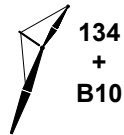
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
59	79.0	259.7	36,900							59
60	78.7	259.5	36,900							60
65	77.6	258.4	36,700							65
68	76.4	257.6	36,500	78.9	256.0	35,000				68
70	76.5	257.1	36,500	78.4	255.5	34,900				70
75	75.3	255.7	36,300	77.2	254.1	34,800				75
76	74.8	255.4	36,300	76.8	253.8	34,800	78.9	250.5	26,100	76
80	74.2	254.2	36,200	76.1	252.6	34,700	78.0	249.3	25,600	80
85	73.0	252.6	34,100	74.9	251.0	34,600	76.8	247.7	24,900	85
90	71.8	250.9	31,200	73.7	249.3	32,300	75.6	245.9	24,300	90
95	70.6	249.1	28,600	72.5	247.5	29,700	74.4	244.1	23,800	95
100	69.5	247.2	26,400	71.3	245.5	27,300	73.2	242.1	23,200	100
105	68.3	245.1	24,300	70.1	243.5	25,200	72.0	240.0	22,700	105
110	67.1	242.9	22,500	68.9	241.3	23,400	70.7	237.7	22,200	110
115	65.8	240.6	20,900	67.7	238.9	21,600	69.5	235.4	21,700	115
120	64.6	238.2	19,400	66.4	236.5	20,100	68.2	232.9	20,800	120
125	63.4	235.6	18,000	65.2	233.9	18,700	67.0	230.2	19,300	125
130	62.1	232.9	16,700	63.9	231.1	17,400	65.7	227.5	18,000	130
135	60.8	230.0	15,600	62.6	228.3	16,200	64.4	224.5	16,800	135
140	59.5	227.0	14,500	61.3	225.2	15,100	63.0	221.4	15,600	140
145	58.2	223.8	13,500	60.0	222.0	14,000	61.7	218.2	14,500	145
150	56.9	220.5	12,600	58.7	218.7	13,100	60.3	214.8	13,600	150
155	55.5	217.0	11,700	57.3	215.1	12,200	58.9	211.1	12,600	155
160	54.2	213.3	10,900	55.9	211.4	11,300	57.5	207.4	11,800	160
165	52.8	209.4	10,100	54.5	207.5	10,600	56.1	203.4	10,900	165
170	51.3	205.4	9,400	53.1	203.4	9,800	54.6	199.2	10,200	170
175	49.9	201.1	8,800	51.6	199.0	9,100	53.1	194.7	9,500	175
180	48.4	196.5	8,100	50.1	194.5	8,500	51.5	190.0	8,800	180
185	46.8	191.8	7,500	48.5	189.6	7,900	50.0	185.1	8,100	185
190	45.3	186.7	7,000	46.9	184.5	7,300	48.3	179.9	7,500	190
195	43.6	181.4	6,400	45.3	179.2	6,700	46.6	174.3	7,000	195
200	42.0	175.8	5,900	43.6	173.4	6,200	44.9	168.4	6,400	200
205	40.3	169.8	5,400	41.9	167.4	5,700	43.1	162.2	5,900	205
210	38.5	163.4	4,900	40.0	160.9	5,200	41.2	155.5	5,400	210
215	36.6	156.6	4,400	38.1	154.0	4,600	39.2	148.3	4,800	215
220	34.6	149.3	3,900	36.1	146.5	4,100	37.1	140.5	4,200	220
225	32.6	141.4	3,400	34.0	138.4	3,600	34.9	132.0	3,700	225
230				31.8	129.6	3,100	32.5	122.8	3,200	230

MLC150-1 S-2

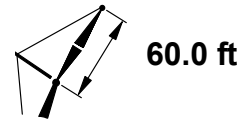
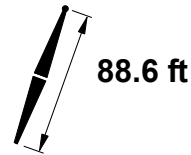
ASME B30.5



	5°			15°			25°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
61	78.9	269.4	33,800							61
65	78.1	268.5	33,600							65
70	77.0	267.3	33,300	78.8	265.7	32,000				70
75	75.9	265.9	33,100	77.7	264.3	31,800				75
78	74.4	265.1	33,100	76.4	263.5	31,700	78.9	260.1	26,100	78
80	74.8	264.5	33,000	76.6	262.9	31,700	78.5	259.5	25,900	80
85	73.6	263.0	32,900	75.5	261.4	31,600	77.3	258.0	25,200	85
90	72.5	261.3	30,800	74.4	259.7	31,400	76.2	256.3	24,600	90
95	71.4	259.6	28,300	73.2	258.0	29,300	75.0	254.5	24,100	95
100	70.3	257.7	26,000	72.1	256.1	27,000	73.9	252.6	23,500	100
105	69.1	255.8	24,000	70.9	254.1	24,900	72.7	250.6	23,000	105
110	67.9	253.7	22,200	69.8	252.0	23,000	71.5	248.5	22,500	110
115	66.8	251.5	20,500	68.6	249.8	21,300	70.3	246.2	22,100	115
120	65.6	249.1	19,000	67.4	247.4	19,800	69.1	243.8	20,500	120
125	64.4	246.7	17,600	66.2	245.0	18,300	67.9	241.3	19,000	125
130	63.2	244.1	16,300	65.0	242.4	17,000	66.7	238.7	17,700	130
135	62.0	241.4	15,200	63.8	239.6	15,800	65.4	235.9	16,400	135
140	60.8	238.5	14,100	62.5	236.7	14,700	64.2	233.0	15,300	140
145	59.5	235.5	13,100	61.3	233.7	13,700	62.9	229.9	14,200	145
150	58.3	232.3	12,200	60.0	230.5	12,700	61.6	226.6	13,200	150
155	57.0	229.0	11,300	58.7	227.2	11,800	60.3	223.2	12,300	155
160	55.7	225.5	10,500	57.4	223.6	11,000	59.0	219.6	11,400	160
165	54.4	221.9	9,700	56.1	220.0	10,200	57.6	215.9	10,600	165
170	53.0	218.0	9,000	54.7	216.1	9,500	56.2	211.9	9,900	170
175	51.6	214.0	8,400	53.3	212.0	8,800	54.8	207.8	9,100	175
180	50.2	209.8	7,700	51.9	207.7	8,100	53.4	203.4	8,500	180
185	48.8	205.3	7,100	50.5	203.2	7,500	51.9	198.8	7,800	185
190	47.4	200.6	6,600	49.0	198.5	6,900	50.4	194.0	7,200	190
195	45.9	195.7	6,000	47.5	193.5	6,400	48.8	188.9	6,600	195
200	44.3	190.5	5,400	45.9	188.3	5,800	47.2	183.5	6,100	200
205	42.7	185.0	4,900	44.3	182.7	5,200	45.6	177.7	5,500	205
210	41.1	179.2	4,300	42.6	176.8	4,600	43.9	171.7	4,900	210
215	39.4	173.0	3,800	40.9	170.5	4,100	42.1	165.2	4,300	215
220	37.6	166.5	3,300	39.1	163.9	3,600	40.2	158.3	3,800	220
225				37.3	156.8	3,100	38.3	150.9	3,200	225



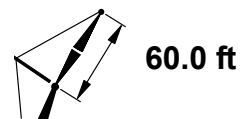
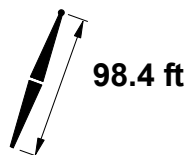
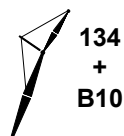
110,500 lb
+
35,000 lb



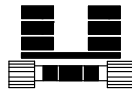
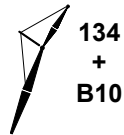
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
39	78.8	153.5	36,800							39
40	78.4	153.3	36,600							40
42	77.6	152.7	36,300							42
44	76.8	152.2	35,900							44
46	76.0	151.6	35,500							46
48	75.3	151.1	35,200							48
49	74.5	150.7	34,900	78.9	149.4	32,400				49
50	74.5	150.4	34,700	78.5	149.1	32,100				50
55	72.4	148.7	33,700	76.5	147.4	31,400				55
59	70.4	147.2	32,900	74.4	145.8	30,800	79.0	142.9	22,700	59
60	70.4	146.8	32,700	74.4	145.5	30,700	78.5	142.4	22,500	60
65	68.3	144.7	31,900	72.3	143.3	30,000	76.4	140.3	21,400	65
70	66.2	142.4	31,000	70.2	141.0	29,300	74.2	137.9	20,500	70
75	64.1	139.8	30,200	68.0	138.4	27,800	72.0	135.2	19,600	75
80	61.9	137.0	29,500	65.8	135.6	26,400	69.8	132.3	18,800	80
85	59.7	134.0	28,700	63.6	132.5	25,200	67.5	129.2	18,100	85
90	57.4	130.7	28,100	61.3	129.1	24,100	65.1	125.7	17,400	90
95	55.1	127.0	27,500	58.9	125.4	23,000	62.6	121.9	16,800	95
100	52.6	123.1	26,800	56.4	121.4	22,000	60.1	117.8	16,200	100
105	50.1	118.7	25,500	53.9	117.0	21,200	57.5	113.2	15,700	105
110	47.5	114.0	24,300	51.2	112.2	20,400	54.7	108.2	15,300	110
115	44.8	108.8	23,300	48.4	106.9	19,600	51.8	102.7	14,800	115
120	41.9	103.1	22,300	45.5	101.1	19,000	48.7	96.6	14,400	120
125	38.8	96.7	21,400	42.3	94.6	18,400	45.4	89.7	14,100	125
130	35.5	89.5	20,600	38.9	87.2	17,800	41.7	81.9	13,800	130
135	31.8	81.3	19,800	35.1	78.7	17,300	37.7	72.7	13,500	135
140	27.7	71.7	19,000	30.8	68.7	16,800	32.9	61.6	13,300	140
142	25.9	67.4	18,600	28.0	63.7	16,700	30.0	56.0	13,300	142
144				26.0	58.8	16,500	28.2	50.4	13,300	144
145				25.7	56.3	16,500				145

MLC150-1 S-2

ASME B30.5



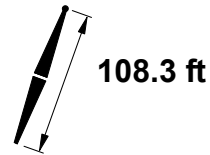
	5°			15°			25°			
	ft	o	ft	lb	o	ft	lb	o	ft	
41	78.8		163.1	36,600						41
42	78.4		162.9	36,400						42
44	77.7		162.4	36,100						44
46	76.9		161.9	35,700						46
48	76.2		161.3	35,400						48
50	75.4		160.7	35,000						50
51	74.6		160.4	34,800	78.9	159.0	32,200			51
55	73.6		159.1	34,100	77.3	157.7	31,600			55
60	71.7		157.4	33,200	75.4	156.0	30,900			60
61	70.6		157.0	33,000	74.6	155.6	30,800	78.9	152.5	61
65	69.8		155.4	32,400	73.5	154.0	30,300	77.3	150.8	65
70	67.8		153.3	31,500	71.5	151.8	29,700	75.3	148.6	70
75	65.8		150.9	30,800	69.5	149.4	28,900	73.3	146.2	75
80	63.8		148.3	30,000	67.5	146.8	27,500	71.2	143.5	80
85	61.8		145.5	29,300	65.4	144.0	26,200	69.1	140.6	85
90	59.7		142.5	28,700	63.3	140.9	25,100	66.9	137.4	90
95	57.5		139.2	28,000	61.2	137.6	24,000	64.7	134.0	95
100	55.4		135.6	27,400	58.9	133.9	23,000	62.4	130.3	100
105	53.1		131.7	26,900	56.6	130.0	22,100	60.0	126.2	105
110	50.8		127.5	25,800	54.3	125.7	21,300	57.6	121.8	110
115	48.3		122.9	24,700	51.8	121.0	20,500	55.1	117.0	115
120	45.8		117.9	23,400	49.2	116.0	19,800	52.4	111.7	120
125	43.2		112.4	22,100	46.5	110.4	19,200	49.6	105.8	125
130	40.4		106.4	20,800	43.7	104.2	18,600	46.6	99.4	130
135	37.4		99.7	19,600	40.6	97.4	18,000	43.3	92.1	135
140	34.2		92.2	18,600	37.3	89.6	17,600	39.8	83.9	140
145	30.6		83.6	17,600	33.7	80.8	17,100	35.8	74.3	145
150	26.6		73.6	16,600	29.5	70.3	16,700	31.2	62.6	150
151	25.7		71.3	16,500	28.0	67.8	16,500	29.7	59.8	151
153					26.0	62.7	16,200	27.8	54.0	153
154					25.6	60.2	16,100			154



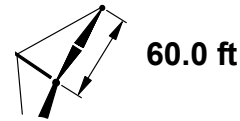
110,500 lb
+
35,000 lb



360°



108.3 ft

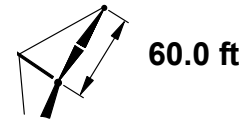
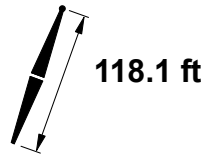
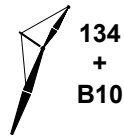


60.0 ft

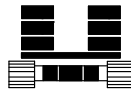
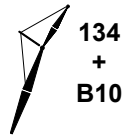
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
43	78.7	172.8	36,300							43
44	78.4	172.5	36,200							44
46	77.7	172.0	35,800							46
48	77.0	171.5	35,500							48
50	76.3	171.0	35,200							50
53	74.8	170.1	34,700	78.8	168.7	32,100				53
55	74.6	169.5	34,400	78.1	168.1	31,800				55
60	72.8	167.8	33,500	76.3	166.4	31,200				60
63	70.8	166.7	33,000	74.8	165.3	30,800	78.9	162.1	22,600	63
65	71.0	166.0	32,700	74.5	164.5	30,500	78.1	161.3	22,300	65
70	69.2	164.0	31,900	72.7	162.5	29,900	76.3	159.2	21,300	70
75	67.3	161.8	31,200	70.8	160.3	29,400	74.4	157.0	20,500	75
80	65.5	159.4	30,400	68.9	157.9	28,500	72.5	154.5	19,700	80
85	63.6	156.8	29,800	67.0	155.2	27,100	70.5	151.8	19,000	85
90	61.6	154.0	29,100	65.1	152.4	26,000	68.5	148.9	18,400	90
95	59.7	150.9	28,500	63.1	149.3	24,900	66.5	145.8	17,700	95
100	57.7	147.7	28,000	61.1	146.0	23,900	64.4	142.3	17,200	100
105	55.6	144.1	27,400	59.0	142.4	23,000	62.2	138.7	16,700	105
110	53.5	140.3	26,300	56.8	138.5	22,200	60.0	134.7	16,200	110
115	51.3	136.1	24,600	54.6	134.3	21,400	57.7	130.3	15,700	115
120	49.0	131.7	23,100	52.3	129.8	20,700	55.4	125.6	15,400	120
125	46.7	126.8	21,800	49.9	124.9	20,000	52.9	120.5	15,000	125
130	44.3	121.6	20,500	47.5	119.5	19,400	50.3	115.0	14,600	130
135	41.7	115.8	19,400	44.8	113.7	18,800	47.6	108.8	14,300	135
140	39.0	109.5	18,300	42.1	107.2	18,300	44.7	102.1	14,000	140
145	36.1	102.5	17,300	39.1	100.0	17,500	41.5	94.5	13,800	145
150	33.0	94.7	16,400	35.9	92.0	16,600	38.1	85.9	13,600	150
155	29.5	85.7	15,500	32.3	82.8	15,700	34.2	75.8	13,400	155
160	25.6	75.3	14,700	28.3	71.8	14,800	29.6	63.6	13,400	160
161				27.0	69.2	14,700	28.6	60.7	13,300	161
163				25.4	64.1	14,300				163

MLC150-1 S-2

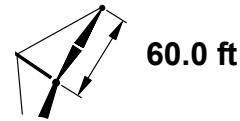
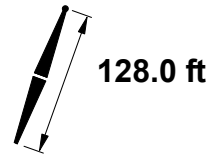
ASME B30.5



	5°			15°			25°			
	ft	o	ft	lb	ft	lb	ft	lb	ft	ft
45	78.7	182.4	36,000							45
46	78.4	182.2	35,800							46
48	77.7	181.7	35,500							48
50	77.1	181.2	35,300							50
55	75.4	179.8	34,500	78.8	178.3	31,900				55
60	73.8	178.2	33,800	77.1	176.7	31,300				60
65	72.1	176.5	33,000	75.4	175.0	30,800	78.8	171.7	22,600	65
70	70.4	174.6	32,200	73.7	173.1	30,200	77.1	169.8	21,800	70
75	68.7	172.5	31,500	72.0	171.0	29,700	75.3	167.7	20,900	75
80	66.9	170.3	30,900	70.2	168.8	29,100	73.5	165.3	20,200	80
85	65.1	167.9	30,200	68.4	166.3	28,000	71.7	162.8	19,400	85
90	63.4	165.3	29,500	66.6	163.7	26,900	69.9	160.1	18,800	90
95	61.5	162.5	29,000	64.8	160.8	25,800	68.0	157.2	18,200	95
100	59.7	159.4	28,400	62.9	157.8	24,800	66.0	154.1	17,700	100
105	57.8	156.2	27,700	61.0	154.5	23,900	64.1	150.7	17,100	105
110	55.8	152.6	25,900	59.0	150.9	23,000	62.1	147.1	16,600	110
115	53.8	148.9	24,200	57.0	147.1	22,200	60.0	143.1	16,200	115
120	51.8	144.8	22,700	54.9	143.0	21,500	57.8	138.9	15,800	120
125	49.7	140.4	21,400	52.8	138.5	20,800	55.6	134.3	15,400	125
130	47.5	135.7	20,100	50.5	133.8	20,100	53.3	129.4	15,100	130
135	45.2	130.6	19,000	48.2	128.6	19,300	50.9	124.0	14,700	135
140	42.8	125.1	17,900	45.8	123.0	18,200	48.4	118.1	14,500	140
145	40.4	119.1	16,900	43.3	116.8	17,200	45.8	111.7	14,200	145
150	37.7	112.5	16,000	40.6	110.1	16,200	42.9	104.6	13,900	150
155	34.9	105.2	15,100	37.7	102.6	15,300	39.9	96.7	13,700	155
160	31.9	97.1	14,300	34.6	94.2	14,500	36.5	87.7	13,500	160
165	28.5	87.8	13,500	31.1	84.6	13,700	32.7	77.2	13,400	165
169	25.5	79.3	13,000	27.8	75.5	13,100	28.8	67.0	13,100	169
170				27.1	73.3	13,000	28.2	64.4	13,000	170
172				25.3	68.0	12,700				172



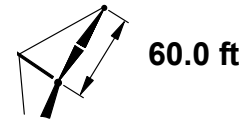
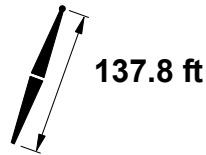
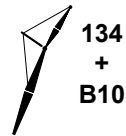
110,500 lb
+
35,000 lb

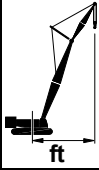
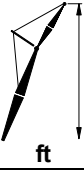


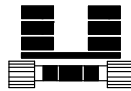
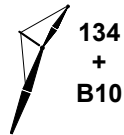
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
46	79.0	192.3	35,800							46
48	78.4	191.8	35,600							48
50	77.8	191.3	35,300							50
55	76.2	190.0	34,600							55
57	75.2	189.4	34,300	78.8	187.9	31,700				57
60	74.6	188.5	33,900	77.8	187.0	31,500				60
65	73.0	186.9	33,200	76.2	185.4	30,900				65
67	72.2	186.2	32,900	75.2	184.7	30,700	78.8	181.3	22,600	67
70	71.4	185.1	32,500	74.6	183.6	30,300	77.8	180.2	22,100	70
75	69.8	183.2	31,800	73.0	181.7	29,800	76.2	178.2	21,300	75
80	68.2	181.1	31,100	71.3	179.5	29,400	74.5	176.1	20,500	80
85	66.5	178.8	30,500	69.6	177.2	28,900	72.8	173.7	19,800	85
90	64.9	176.4	29,900	68.0	174.8	27,700	71.0	171.2	19,200	90
95	63.2	173.8	29,300	66.2	172.1	26,600	69.3	168.5	18,600	95
100	61.4	170.9	28,800	64.5	169.3	25,600	67.5	165.6	18,100	100
105	59.7	167.9	27,300	62.7	166.2	24,700	65.7	162.4	17,500	105
110	57.9	164.6	25,500	60.9	162.9	23,800	63.8	159.1	17,100	110
115	56.0	161.2	23,900	59.0	159.4	23,000	61.9	155.5	16,600	115
120	54.1	157.4	22,400	57.1	155.6	22,300	59.9	151.6	16,200	120
125	52.2	153.4	21,000	55.2	151.6	21,500	57.9	147.4	15,800	125
130	50.2	149.2	19,800	53.2	147.2	20,200	55.9	143.0	15,500	130
135	48.2	144.6	18,600	51.1	142.6	19,000	53.7	138.1	15,100	135
140	46.1	139.6	17,500	48.9	137.6	17,900	51.5	133.0	14,800	140
145	43.9	134.3	16,500	46.7	132.2	16,900	49.2	127.3	14,500	145
150	41.5	128.5	15,600	44.3	126.3	15,900	46.7	121.2	14,200	150
155	39.1	122.3	14,800	41.9	119.9	15,000	44.1	114.5	14,000	155
160	36.6	115.4	13,900	39.3	112.9	14,200	41.4	107.1	13,800	160
165	33.8	107.8	13,200	36.4	105.1	13,400	38.4	98.9	13,600	165
170	30.9	99.4	12,500	33.4	96.4	12,700	35.1	89.5	12,800	170
175	27.6	89.7	11,800	30.0	86.4	12,000	31.4	78.6	12,000	175
178	25.4	83.2	11,400	27.2	79.3	11,500	28.0	70.7	11,600	178
179				26.6	77.0	11,400	27.9	68.1	11,500	179
180				26.1	74.6	11,300				180
181				25.2	71.9	11,100				181

MLC150-1 S-2

ASME B30.5



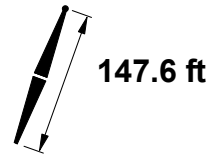
	5°			15°			25°			
 ft	 o	 ft	 lb	 o	 ft	 lb	 o	 ft	 lb	 ft
48	79.0	201.9	35,500							48
50	78.4	201.4	35,200							50
55	76.9	200.2	34,600							55
59	75.2	199.1	34,100	78.7	197.6	31,600				59
60	75.4	198.8	33,900	78.4	197.3	31,500				60
65	73.9	197.3	33,400	76.9	195.7	31,000				65
69	72.2	195.9	32,800	75.2	194.4	30,600	78.8	191.0	22,600	69
70	72.4	195.6	32,700	75.4	194.0	30,500	78.5	190.6	22,400	70
75	70.9	193.8	32,000	73.9	192.2	30,000	76.9	188.7	21,700	75
80	69.3	191.8	31,400	72.3	190.2	29,600	75.3	186.7	20,900	80
85	67.8	189.7	30,800	70.7	188.0	29,100	73.7	184.5	20,200	85
90	66.2	187.4	30,200	69.1	185.7	28,600	72.1	182.1	19,600	90
95	64.6	184.9	29,600	67.5	183.2	27,400	70.4	179.6	19,000	95
100	63.0	182.2	28,900	65.9	180.6	26,400	68.8	176.8	18,500	100
105	61.3	179.4	26,900	64.2	177.7	25,500	67.1	173.9	17,900	105
110	59.6	176.4	25,100	62.5	174.6	24,600	65.3	170.8	17,500	110
115	57.9	173.1	23,500	60.8	171.4	23,800	63.6	167.4	17,000	115
120	56.2	169.7	22,000	59.0	167.9	22,600	61.8	163.9	16,600	120
125	54.4	166.0	20,600	57.2	164.2	21,200	59.9	160.0	16,200	125
130	52.6	162.1	19,400	55.4	160.2	19,900	58.0	156.0	15,800	130
135	50.7	157.9	18,200	53.5	155.9	18,700	56.1	151.6	15,500	135
140	48.8	153.4	17,100	51.5	151.4	17,600	54.1	146.9	15,200	140
145	46.8	148.6	16,100	49.5	146.5	16,500	52.0	141.8	14,900	145
150	44.7	143.4	15,200	47.4	141.2	15,600	49.8	136.4	14,600	150
155	42.6	137.9	14,400	45.3	135.6	14,700	47.5	130.5	14,300	155
160	40.4	131.8	13,500	43.0	129.5	13,800	45.2	124.2	14,100	160
165	38.0	125.3	12,800	40.6	122.8	13,100	42.6	117.2	13,300	165
170	35.5	118.2	12,100	38.0	115.5	12,300	39.9	109.5	12,500	170
175	32.8	110.4	11,400	35.3	107.5	11,600	37.0	100.9	11,800	175
180	29.9	101.6	10,800	32.3	98.4	11,000	33.8	91.2	11,100	180
185	26.7	91.6	10,200	29.0	88.1	10,300	30.2	79.8	10,400	185
187	25.4	87.2	9,900	26.8	83.2	10,100	28.5	74.6	10,100	187
190				25.2	75.9	9,700				190



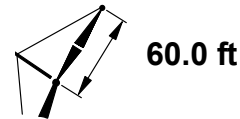
110,500 lb
+
35,000 lb



360°



147.6 ft

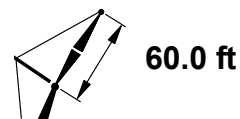
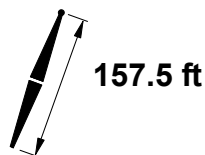
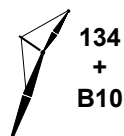


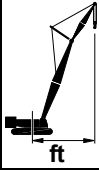
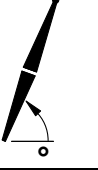
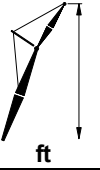
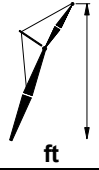
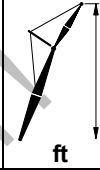
60.0 ft

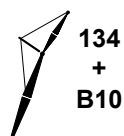
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
50	78.9	211.5	35,100							50
55	77.5	210.3	34,500							55
60	76.1	209.0	34,000							60
61	75.6	208.7	33,800	78.7	207.2	31,400				61
65	74.7	207.6	33,400	77.6	206.0	31,000				65
70	73.3	206.0	32,800	76.1	204.4	30,600				70
71	72.6	205.6	32,700	75.6	204.1	30,500	78.8	200.6	22,600	71
75	71.8	204.3	32,200	74.7	202.7	30,100	77.6	199.1	21,900	75
80	70.4	202.4	31,600	73.2	200.8	29,600	76.1	197.2	21,200	80
85	68.9	200.4	31,000	71.7	198.7	29,200	74.6	195.2	20,600	85
90	67.4	198.2	30,400	70.2	196.6	28,800	73.0	192.9	19,900	90
95	65.9	195.9	29,900	68.7	194.2	28,200	71.5	190.5	19,400	95
100	64.4	193.4	28,600	67.1	191.7	27,200	69.9	188.0	18,900	100
105	62.8	190.7	26,600	65.6	189.0	26,200	68.3	185.2	18,300	105
110	61.2	187.9	24,800	64.0	186.1	25,300	66.7	182.3	17,800	110
115	59.6	184.8	23,200	62.4	183.1	23,800	65.0	179.2	17,400	115
120	58.0	181.6	21,700	60.7	179.8	22,300	63.4	175.8	17,000	120
125	56.4	178.2	20,300	59.1	176.4	20,900	61.7	172.3	16,600	125
130	54.7	174.6	19,100	57.4	172.7	19,600	59.9	168.5	16,200	130
135	52.9	170.7	17,900	55.6	168.8	18,400	58.1	164.5	15,900	135
140	51.2	166.5	16,800	53.8	164.6	17,300	56.3	160.2	15,500	140
145	49.3	162.1	15,800	52.0	160.1	16,300	54.4	155.6	15,200	145
150	47.5	157.5	14,900	50.1	155.4	15,300	52.4	150.7	15,000	150
155	45.5	152.4	14,000	48.1	150.3	14,400	50.4	145.4	14,600	155
160	43.5	147.1	13,200	46.1	144.8	13,600	48.3	139.8	13,900	160
165	41.4	141.3	12,500	43.9	138.9	12,800	46.0	133.7	13,100	165
170	39.3	135.0	11,800	41.7	132.6	12,100	43.7	127.0	12,300	170
175	37.0	128.3	11,100	39.4	125.7	11,400	41.3	119.8	11,600	175
180	34.5	120.9	10,500	36.9	118.1	10,700	38.6	111.8	10,900	180
185	31.9	112.8	9,900	34.2	109.8	10,100	35.8	102.9	10,200	185
190	29.1	103.7	9,300	31.3	100.4	9,500	32.6	92.8	9,600	190
195	26.0	93.4	8,800	28.0	89.7	8,900	29.0	81.0	9,000	195
196	25.3	91.2	8,700	27.3	87.2	8,800	28.3	78.4	8,800	196
199				25.1	79.8	8,500				199

MLC150-1 S-2

ASME B30.5



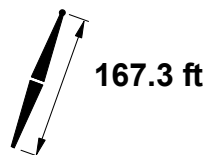
	5°			15°			25°			
										
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
52	78.9	221.2	34,800							52
55	78.1	220.5	34,400							55
60	76.8	219.2	33,800							60
62	75.6	218.7	33,600	79.0	217.1	31,300				62
65	75.4	217.8	33,300	78.2	216.2	31,000				65
70	74.0	216.3	32,800	76.8	214.7	30,600				70
73	72.8	215.3	32,500	75.4	213.7	30,300	78.7	210.2	22,500	73
75	72.7	214.7	32,300	75.4	213.1	30,100	78.2	209.5	22,200	75
80	71.3	212.9	31,700	74.0	211.3	29,700	76.8	207.7	21,500	80
85	69.9	211.0	31,200	72.6	209.3	29,300	75.3	205.7	20,900	85
90	68.5	208.9	30,600	71.2	207.3	28,900	73.9	203.6	20,300	90
95	67.0	206.7	30,100	69.7	205.1	28,600	72.4	201.4	19,700	95
100	65.6	204.4	28,300	68.3	202.7	27,900	70.9	198.9	19,200	100
105	64.1	201.9	26,300	66.8	200.1	26,900	69.4	196.3	18,700	105
110	62.7	199.2	24,400	65.3	197.4	25,200	67.9	193.6	18,200	110
115	61.2	196.3	22,800	63.8	194.6	23,500	66.3	190.7	17,700	115
120	59.6	193.3	21,300	62.2	191.5	22,000	64.8	187.5	17,300	120
125	58.1	190.1	19,900	60.7	188.3	20,600	63.2	184.2	16,900	125
130	56.5	186.7	18,700	59.1	184.8	19,300	61.5	180.7	16,600	130
135	54.9	183.1	17,500	57.5	181.2	18,100	59.9	177.0	16,200	135
140	53.2	179.3	16,400	55.8	177.3	16,900	58.2	173.0	15,900	140
145	51.6	175.2	15,400	54.1	173.2	15,900	56.4	168.8	15,600	145
150	49.8	170.9	14,500	52.3	168.8	15,000	54.6	164.3	15,300	150
155	48.1	166.3	13,700	50.6	164.2	14,100	52.8	159.5	14,500	155
160	46.2	161.4	12,900	48.7	159.2	13,200	50.9	154.4	13,600	160
165	44.4	156.2	12,100	46.8	153.9	12,500	48.9	148.9	12,800	165
170	42.4	150.6	11,400	44.8	148.2	11,700	46.8	143.0	12,000	170
175	40.4	144.6	10,700	42.7	142.2	11,000	44.7	136.7	11,300	175
180	38.2	138.1	10,100	40.6	135.6	10,400	42.4	129.8	10,600	180
185	36.0	131.1	9,500	38.3	128.4	9,700	40.0	122.3	9,900	185
190	33.6	123.5	8,900	35.8	120.6	9,100	37.4	114.0	9,300	190
195	31.1	115.1	8,400	33.2	112.0	8,600	34.6	104.8	8,700	195
200	28.3	105.8	7,900	30.3	102.3	8,000	31.5	94.4	8,100	200
205	25.2	95.2	7,400	27.2	91.3	7,500	28.0	82.2	7,600	205
208				25.0	83.8	7,200				208



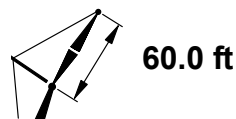
110,500 lb
+
35,000 lb



360°



167.3 ft

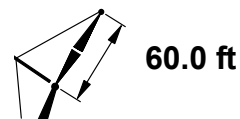
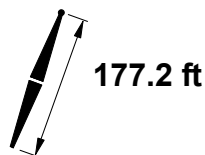
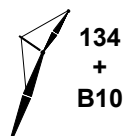


60.0 ft

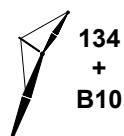
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
54	78.9	230.8	34,300							54
55	78.6	230.6	34,200							55
60	77.3	229.4	33,700							60
64	76.2	228.3	33,300	78.9	226.7	31,100				64
65	76.0	228.1	33,300	78.7	226.5	31,000				65
70	74.7	226.6	32,800	77.4	225.0	30,600				70
74	73.2	225.4	32,400	76.2	223.7	30,300	79.0	220.2	22,700	74
75	73.4	225.1	32,300	76.1	223.4	30,200	78.7	219.8	22,600	75
80	72.1	223.4	31,800	74.7	221.7	29,800	77.4	218.1	21,900	80
85	70.8	221.5	31,300	73.4	219.9	29,400	76.0	216.2	21,200	85
90	69.4	219.6	30,800	72.0	217.9	29,100	74.6	214.2	20,600	90
95	68.1	217.5	30,200	70.7	215.8	28,700	73.2	212.1	20,000	95
100	66.7	215.3	27,900	69.3	213.6	28,400	71.8	209.8	19,500	100
105	65.3	212.9	25,900	67.9	211.2	26,800	70.4	207.3	19,000	105
110	63.9	210.4	24,100	66.5	208.6	24,900	69.0	204.7	18,500	110
115	62.5	207.7	22,400	65.0	205.9	23,200	67.5	202.0	18,100	115
120	61.1	204.8	20,900	63.6	203.0	21,600	66.0	199.0	17,700	120
125	59.6	201.8	19,600	62.1	200.0	20,200	64.5	195.9	17,300	125
130	58.1	198.6	18,300	60.6	196.8	18,900	63.0	192.6	16,900	130
135	56.6	195.2	17,100	59.1	193.3	17,700	61.4	189.1	16,500	135
140	55.1	191.6	16,100	57.6	189.7	16,600	59.9	185.4	16,200	140
145	53.5	187.9	15,100	56.0	185.9	15,600	58.2	181.5	15,900	145
150	51.9	183.8	14,200	54.3	181.8	14,600	56.6	177.4	15,100	150
155	50.3	179.6	13,300	52.7	177.5	13,700	54.9	172.9	14,200	155
160	48.6	175.1	12,500	51.0	173.0	12,900	53.1	168.3	13,300	160
165	46.9	170.3	11,700	49.2	168.1	12,100	51.3	163.3	12,500	165
170	45.1	165.2	11,000	47.4	163.0	11,400	49.4	157.9	11,700	170
175	43.3	159.8	10,400	45.6	157.5	10,700	47.5	152.3	11,000	175
180	41.3	154.0	9,700	43.6	151.6	10,000	45.5	146.2	10,300	180
185	39.4	147.8	9,100	41.6	145.3	9,400	43.4	139.6	9,600	185
190	37.3	141.1	8,600	39.5	138.5	8,800	41.2	132.5	9,000	190
195	35.1	133.9	8,000	37.2	131.1	8,300	38.8	124.7	8,400	195
200	32.7	126.1	7,500	34.8	123.0	7,700	36.3	116.2	7,900	200
205	30.2	117.4	7,000	32.3	114.1	7,200	33.5	106.7	7,300	205
210	27.5	107.8	6,600	29.5	104.2	6,700	30.5	95.9	6,800	210
213	25.5	101.3	6,300	27.2	97.3	6,400	28.5	88.6	6,500	213
214	25.2	99.1	6,200	26.6	95.1	6,300				214
215				26.3	92.8	6,200				215
216				25.7	90.3	6,200				216

MLC150-1 S-2

ASME B30.5



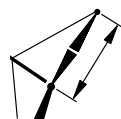
	5°			15°			25°			
	ft	o	ft	lb	ft	o	ft	lb	ft	
56	78.9	240.4	33,900							56
60	77.9	239.5	33,500							60
65	76.6	238.3	33,000							65
66	75.8	238.0	32,900	78.9	236.4	30,800				66
70	75.4	236.9	32,600	77.9	235.2	30,500				70
75	74.1	235.4	32,200	76.7	233.7	30,100				75
76	73.6	235.1	32,100	75.8	233.4	30,000	79.0	229.8	22,600	76
80	72.9	233.8	31,700	75.4	232.1	29,800	77.9	228.5	22,100	80
85	71.6	232.0	31,300	74.1	230.4	29,400	76.6	226.7	21,500	85
90	70.3	230.2	30,800	72.8	228.5	29,100	75.3	224.8	20,900	90
95	69.0	228.2	29,800	71.5	226.5	28,700	74.0	222.7	20,400	95
100	67.7	226.0	27,500	70.2	224.3	28,400	72.7	220.5	19,800	100
105	66.4	223.8	25,500	68.9	222.1	26,500	71.3	218.2	19,300	105
110	65.1	221.4	23,700	67.5	219.6	24,600	69.9	215.8	18,800	110
115	63.8	218.8	22,100	66.2	217.1	22,900	68.6	213.1	18,400	115
120	62.4	216.1	20,500	64.8	214.3	21,300	67.2	210.4	18,000	120
125	61.0	213.3	19,200	63.4	211.5	19,900	65.8	207.4	17,600	125
130	59.6	210.3	17,900	62.0	208.4	18,600	64.3	204.3	17,200	130
135	58.2	207.1	16,800	60.6	205.2	17,400	62.8	201.1	16,900	135
140	56.8	203.7	15,700	59.1	201.8	16,300	61.4	197.6	16,500	140
145	55.3	200.2	14,700	57.6	198.2	15,200	59.8	193.9	15,800	145
150	53.8	196.4	13,800	56.1	194.4	14,300	58.3	190.0	14,800	150
155	52.3	192.5	12,900	54.6	190.4	13,400	56.7	185.9	13,900	155
160	50.7	188.3	12,100	53.0	186.2	12,500	55.1	181.6	13,000	160
165	49.1	183.9	11,300	51.4	181.7	11,800	53.4	177.0	12,200	165
170	47.5	179.2	10,600	49.7	177.0	11,000	51.7	172.1	11,400	170
175	45.8	174.2	10,000	48.0	172.0	10,300	50.0	166.9	10,700	175
180	44.0	168.9	9,300	46.2	166.6	9,700	48.1	161.4	10,000	180
185	42.2	163.3	8,700	44.4	160.9	9,100	46.2	155.5	9,300	185
190	40.4	157.3	8,200	42.5	154.8	8,500	44.3	149.2	8,700	190
195	38.4	150.9	7,600	40.5	148.3	7,900	42.2	142.4	8,100	195
200	36.4	144.1	7,100	38.5	141.3	7,400	40.0	135.1	7,600	200
205	34.2	136.6	6,600	36.3	133.7	6,900	37.7	127.1	7,000	205
210	31.9	128.5	6,200	33.9	125.4	6,400	35.2	118.3	6,500	210
215	29.5	119.6	5,700	31.4	116.2	5,900	32.6	108.5	6,000	215
220	26.8	109.7	5,300	28.7	106.0	5,500	29.6	97.3	5,500	220
222	25.3	105.3	5,200	26.8	101.3	5,300	28.3	92.4	5,300	222
223	25.1	103.1	5,100	26.2	98.9	5,200				223
225				25.6	94.2	5,000				225



110,500 lb
+
35,000 lb



187.0 ft

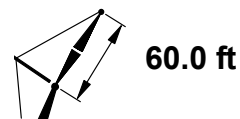
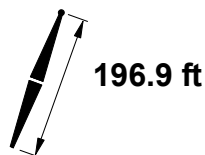
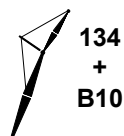


60.0 ft

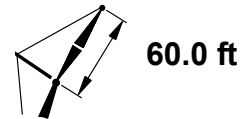
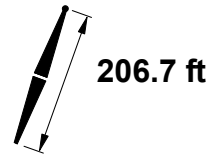
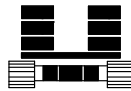
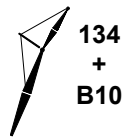
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
58	78.8	250.1	33,400							58
60	78.4	249.6	33,200							60
65	77.2	248.4	32,800							65
68	75.8	247.6	32,600	78.9	246.0	30,500				68
70	76.0	247.1	32,400	78.4	245.4	30,400				70
75	74.8	245.7	32,000	77.2	244.0	30,100				75
78	73.4	244.7	31,700	75.8	243.1	29,900	78.9	239.4	22,600	78
80	73.6	244.1	31,500	76.0	242.4	29,700	78.4	238.8	22,300	80
85	72.4	242.5	31,100	74.8	240.8	29,400	77.2	237.1	21,700	85
90	71.1	240.7	30,700	73.5	239.0	29,100	75.9	235.2	21,200	90
95	69.9	238.8	29,500	72.3	237.1	28,700	74.7	233.3	20,600	95
100	68.7	236.8	27,200	71.0	235.0	28,300	73.4	231.2	20,100	100
105	67.4	234.6	25,200	69.8	232.9	26,200	72.1	229.0	19,600	105
110	66.2	232.3	23,400	68.5	230.6	24,300	70.8	226.7	19,200	110
115	64.9	229.9	21,700	67.2	228.1	22,600	69.5	224.2	18,700	115
120	63.6	227.3	20,200	65.9	225.5	21,000	68.2	221.6	18,300	120
125	62.3	224.6	18,900	64.6	222.8	19,600	66.9	218.8	17,900	125
130	61.0	221.8	17,600	63.3	219.9	18,300	65.5	215.8	17,500	130
135	59.6	218.8	16,400	61.9	216.9	17,100	64.1	212.7	17,100	135
140	58.2	215.6	15,400	60.5	213.7	16,000	62.7	209.5	16,600	140
145	56.9	212.2	14,400	59.1	210.3	15,000	61.3	206.0	15,500	145
150	55.5	208.7	13,400	57.7	206.7	14,000	59.8	202.4	14,500	150
155	54.0	205.0	12,600	56.3	203.0	13,100	58.3	198.5	13,600	155
160	52.6	201.1	11,800	54.8	199.0	12,300	56.8	194.5	12,700	160
165	51.1	197.0	11,000	53.3	194.9	11,500	55.3	190.2	11,900	165
170	49.5	192.6	10,300	51.7	190.5	10,700	53.7	185.7	11,100	170
175	48.0	188.0	9,600	50.2	185.8	10,000	52.1	180.9	10,400	175
180	46.4	183.1	9,000	48.5	180.9	9,400	50.4	175.9	9,700	180
185	44.7	178.0	8,400	46.9	175.7	8,800	48.7	170.5	9,100	185
190	43.0	172.5	7,900	45.1	170.1	8,200	46.9	164.8	8,500	190
195	41.3	166.8	7,300	43.3	164.3	7,600	45.0	158.7	7,900	195
200	39.4	160.6	6,800	41.5	158.0	7,100	43.1	152.2	7,300	200
205	37.5	154.0	6,300	39.5	151.3	6,600	41.1	145.2	6,800	205
210	35.5	146.9	5,900	37.5	144.0	6,100	39.0	137.6	6,300	210
215	33.4	139.2	5,400	35.4	136.2	5,600	36.7	129.4	5,800	215
220	31.2	130.9	5,000	33.1	127.7	5,200	34.3	120.3	5,300	220
225	28.8	121.7	4,600	30.6	118.2	4,800	31.6	110.2	4,900	225
230	26.2	111.5	4,100	27.9	107.7	4,300	28.7	98.7	4,400	230
231	25.5	109.3	4,000	26.5	105.3	4,200	28.1	96.2	4,300	231
232	25.1	107.1	4,000	26.0	102.9	4,100				232
234				25.5	98.2	3,900				234

MLC150-1 S-2

ASME B30.5



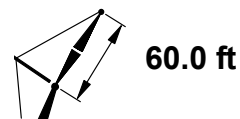
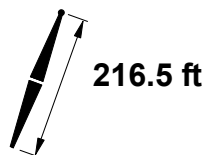
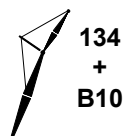
	5°			15°			25°			
	ft	o	ft	lb	ft	lb	ft	lb	ft	ft
60	78.8	259.7	32,900							60
65	77.7	258.6	32,500							65
70	76.5	257.3	32,100	78.9	255.6	30,200				70
75	75.4	255.9	31,800	77.7	254.2	29,900				75
80	74.2	254.4	31,400	76.5	252.7	29,600	78.9	249.0	22,600	80
85	73.1	252.8	31,000	75.4	251.1	29,300	77.7	247.4	22,000	85
90	71.9	251.1	30,600	74.2	249.4	28,900	76.5	245.7	21,400	90
95	70.7	249.3	29,100	73.0	247.6	28,700	75.3	243.8	20,900	95
100	69.5	247.4	26,900	71.8	245.6	28,000	74.1	241.8	20,300	100
105	68.3	245.3	24,800	70.6	243.6	25,900	72.9	239.7	19,900	105
110	67.1	243.1	23,000	69.4	241.4	24,000	71.6	237.5	19,400	110
115	65.9	240.8	21,400	68.2	239.0	22,300	70.4	235.1	19,000	115
120	64.7	238.4	19,900	66.9	236.6	20,700	69.1	232.6	18,600	120
125	63.4	235.8	18,500	65.7	234.0	19,300	67.9	230.0	18,200	125
130	62.2	233.1	17,200	64.4	231.3	18,000	66.6	227.2	17,800	130
135	60.9	230.2	16,000	63.1	228.4	16,800	65.2	224.2	17,400	135
140	59.6	227.2	15,000	61.8	225.3	15,600	63.9	221.2	16,300	140
145	58.3	224.1	14,000	60.5	222.1	14,600	62.6	217.9	15,200	145
150	57.0	220.7	13,000	59.1	218.8	13,600	61.2	214.5	14,200	150
155	55.6	217.2	12,200	57.8	215.2	12,700	59.8	210.9	13,300	155
160	54.2	213.6	11,400	56.4	211.5	11,900	58.4	207.1	12,400	160
165	52.8	209.7	10,600	55.0	207.6	11,100	56.9	203.1	11,600	165
170	51.4	205.6	9,900	53.5	203.5	10,400	55.5	198.8	10,800	170
175	50.0	201.3	9,200	52.1	199.2	9,700	54.0	194.4	10,100	175
180	48.5	196.8	8,600	50.6	194.6	9,000	52.4	189.7	9,400	180
185	46.9	192.0	8,000	49.0	189.8	8,400	50.8	184.8	8,800	185
190	45.4	187.0	7,500	47.4	184.7	7,800	49.2	179.5	8,100	190
195	43.7	181.7	6,900	45.8	179.3	7,300	47.5	174.0	7,600	195
200	42.1	176.1	6,400	44.1	173.6	6,700	45.7	168.1	7,000	200
205	40.4	170.1	5,900	42.3	167.5	6,200	43.9	161.8	6,500	205
210	38.6	163.7	5,500	40.5	161.1	5,700	42.0	155.1	6,000	210
215	36.7	156.9	5,000	38.6	154.1	5,300	40.1	147.8	5,500	215
220	34.7	149.6	4,500	36.6	146.7	4,800	38.0	140.0	5,000	220
225	32.7	141.8	4,000	34.5	138.6	4,300	35.7	131.6	4,500	225
230	30.5	133.2	3,600	32.3	129.9	3,800	33.4	122.2	3,900	230
235	28.1	123.8	3,100	29.8	120.2	3,300	30.8	111.9	3,400	235

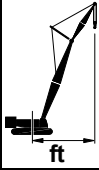
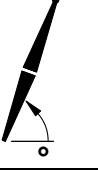
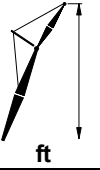
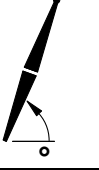
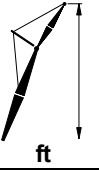
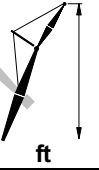


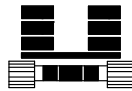
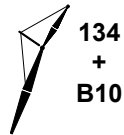
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
61	79.0	269.6	31,500							61
65	78.1	268.7	31,400							65
70	77.0	267.4	31,300							70
72	76.2	266.9	31,200	78.8	265.3	29,900				72
75	75.9	266.1	31,100	78.2	264.4	29,700				75
80	74.8	264.7	31,000	77.1	263.0	29,400				80
82	73.6	264.1	30,900	76.2	262.4	29,300	78.9	258.7	22,600	82
85	73.7	263.2	30,700	75.9	261.5	29,100	78.2	257.7	22,200	85
90	72.6	261.5	30,400	74.8	259.8	28,900	77.1	256.0	21,600	90
95	71.5	259.8	28,800	73.7	258.1	28,500	75.9	254.3	21,100	95
100	70.3	257.9	26,500	72.5	256.2	27,700	74.7	252.4	20,600	100
105	69.2	256.0	24,500	71.4	254.2	25,600	73.6	250.3	20,100	105
110	68.0	253.9	22,700	70.2	252.1	23,700	72.4	248.2	19,700	110
115	66.9	251.7	21,000	69.0	249.9	21,900	71.2	245.9	19,200	115
120	65.7	249.4	19,500	67.8	247.5	20,400	70.0	243.6	18,800	120
125	64.5	246.9	18,100	66.7	245.1	19,000	68.8	241.0	18,500	125
130	63.3	244.3	16,800	65.4	242.5	17,600	67.5	238.4	18,100	130
135	62.1	241.6	15,700	64.2	239.7	16,400	66.3	235.6	17,200	135
140	60.8	238.7	14,600	63.0	236.8	15,300	65.0	232.7	16,000	140
145	59.6	235.7	13,600	61.7	233.8	14,300	63.7	229.6	14,900	145
150	58.3	232.6	12,700	60.5	230.6	13,300	62.5	226.3	13,900	150
155	57.1	229.2	11,800	59.2	227.3	12,400	61.1	222.9	13,000	155
160	55.8	225.8	11,000	57.9	223.8	11,600	59.8	219.3	12,100	160
165	54.4	222.1	10,300	56.5	220.1	10,800	58.4	215.6	11,300	165
170	53.1	218.3	9,500	55.2	216.2	10,000	57.0	211.6	10,500	170
175	51.7	214.2	8,900	53.8	212.1	9,400	55.6	207.4	9,800	175
180	50.3	210.0	8,200	52.4	207.9	8,700	54.2	203.1	9,100	180
185	48.9	205.6	7,700	50.9	203.4	8,100	52.7	198.5	8,500	185
190	47.4	200.9	7,100	49.4	198.6	7,500	51.2	193.6	7,800	190
195	45.9	196.0	6,600	47.9	193.6	6,900	49.6	188.5	7,300	195
200	44.4	190.8	6,000	46.4	188.4	6,400	48.0	183.1	6,700	200
205	42.8	185.3	5,500	44.8	182.8	5,900	46.4	177.3	6,200	205
210	41.2	179.5	5,000	43.1	176.9	5,400	44.7	171.3	5,700	210
215	39.5	173.3	4,500	41.4	170.7	4,800	42.9	164.8	5,100	215
220	37.7	166.8	4,000	39.6	164.0	4,300	41.0	157.9	4,600	220
225	35.9	159.8	3,500	37.7	156.9	3,800	39.1	150.4	4,000	225
230	34.0	152.3	3,100	35.8	149.3	3,300	37.0	142.4	3,500	230
235							34.8	133.7	3,000	235

MLC150-1 S-2

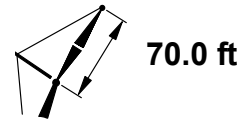
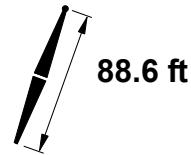
ASME B30.5



	5°			15°			25°			
 ft	 o	 ft	 lb	 o	 ft	 lb	 o	 ft	 lb	 ft
64	79.0	279.2	28,700							64
65	78.8	279.0	28,700							65
70	77.7	277.8	28,500							70
75	76.6	276.6	28,400	78.8	274.9	27,200				75
80	75.6	275.2	28,200	77.7	273.5	27,100				80
85	74.5	273.8	28,100	76.7	272.0	27,000	78.8	268.3	23,400	85
90	73.4	272.2	28,000	75.6	270.5	26,900	77.7	266.7	23,000	90
95	72.3	270.6	27,900	74.5	268.8	26,800	76.6	265.0	22,400	95
100	71.2	268.8	26,300	73.4	267.0	26,600	75.5	263.2	21,900	100
105	70.2	266.9	24,200	72.3	265.2	25,400	74.4	261.3	21,400	105
110	69.0	264.9	22,400	71.2	263.2	23,500	73.3	259.2	20,900	110
115	67.9	262.8	20,700	70.0	261.1	21,700	72.1	257.1	20,400	115
120	66.8	260.6	19,200	68.9	258.8	20,200	71.0	254.8	20,000	120
125	65.7	258.3	17,800	67.8	256.5	18,700	69.8	252.5	19,600	125
130	64.5	255.9	16,600	66.6	254.0	17,400	68.6	250.0	18,200	130
135	63.4	253.3	15,400	65.4	251.4	16,200	67.5	247.3	17,000	135
140	62.2	250.6	14,300	64.3	248.7	15,100	66.3	244.5	15,800	140
145	61.0	247.7	13,300	63.1	245.8	14,000	65.0	241.6	14,700	145
150	59.8	244.8	12,400	61.9	242.8	13,000	63.8	238.6	13,700	150
155	58.6	241.6	11,500	60.6	239.7	12,100	62.6	235.4	12,800	155
160	57.4	238.4	10,700	59.4	236.4	11,300	61.3	232.0	11,900	160
165	56.1	234.9	9,900	58.1	232.9	10,500	60.0	228.5	11,100	165
170	54.9	231.3	9,200	56.9	229.3	9,800	58.7	224.8	10,300	170
175	53.6	227.6	8,600	55.6	225.5	9,100	57.4	220.9	9,500	175
180	52.3	223.6	7,900	54.2	221.5	8,400	56.0	216.8	8,900	180
185	50.9	219.5	7,300	52.9	217.3	7,800	54.7	212.5	8,200	185
190	49.6	215.1	6,800	51.5	212.9	7,200	53.2	208.0	7,600	190
195	48.2	210.6	6,200	50.1	208.3	6,600	51.8	203.3	7,000	195
200	46.8	205.8	5,600	48.7	203.5	6,100	50.3	198.3	6,400	200
205	45.3	200.8	5,100	47.2	198.4	5,500	48.8	193.1	5,900	205
210	43.8	195.5	4,500	45.7	193.0	5,000	47.2	187.6	5,300	210
215	42.2	189.9	4,000	44.1	187.4	4,400	45.6	181.7	4,700	215
220	40.7	184.0	3,500	42.5	181.4	3,900	44.0	175.6	4,200	220
225	39.0	177.7	3,000	40.8	175.0	3,400	42.2	169.0	3,700	225
230							40.4	162.0	3,100	230



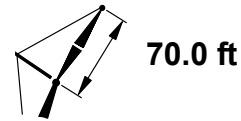
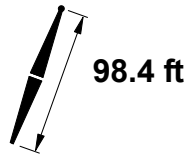
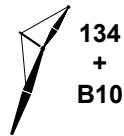
110,500 lb
+
35,000 lb

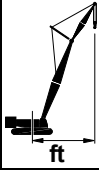
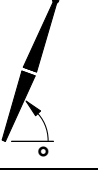
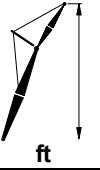
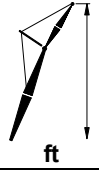
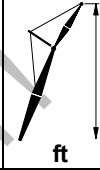


	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
40	79.0	163.6	31,400							40
42	78.3	163.1	31,000							42
44	77.5	162.6	30,700							44
46	76.8	162.1	30,300							46
48	76.0	161.5	29,900							48
50	75.3	161.0	29,600							50
53	73.8	160.0	29,100	78.6	158.7	27,200				53
55	73.4	159.4	28,700	77.9	158.1	27,000				55
60	71.5	157.6	27,900	76.0	156.3	26,300				60
65	69.6	155.6	27,200	74.0	154.3	25,600	78.6	151.2	20,200	65
70	67.7	153.5	26,400	72.1	152.1	25,000	76.6	149.0	19,200	70
75	65.7	151.1	25,800	70.1	149.8	24,400	74.6	146.5	18,400	75
80	63.7	148.6	25,100	68.1	147.2	23,800	72.5	143.9	17,700	80
85	61.7	145.8	24,400	66.0	144.3	22,800	70.4	141.0	16,900	85
90	59.6	142.7	23,800	63.9	141.3	21,700	68.2	137.8	16,300	90
95	57.4	139.4	23,200	61.7	137.9	20,700	66.0	134.4	15,700	95
100	55.2	135.8	22,600	59.5	134.3	19,800	63.7	130.7	15,100	100
105	53.0	132.0	22,000	57.2	130.4	19,000	61.4	126.6	14,600	105
110	50.7	127.8	21,500	54.9	126.1	18,200	58.9	122.2	14,200	110
115	48.2	123.2	20,900	52.4	121.5	17,600	56.4	117.4	13,700	115
120	45.7	118.2	20,100	49.8	116.4	16,800	53.7	112.1	13,300	120
125	43.1	112.7	19,200	47.2	110.8	16,300	50.9	106.3	12,900	125
130	40.3	106.7	18,400	44.3	104.7	15,700	48.0	99.9	12,600	130
135	37.3	100.0	17,700	41.3	97.9	15,300	44.8	92.7	12,300	135
140	34.1	92.6	17,000	38.0	90.2	14,800	41.3	84.5	12,100	140
145	30.6	84.0	16,400	34.4	81.4	14,400	37.3	75.0	11,900	145
150	26.6	74.1	15,900	30.2	71.1	13,900	32.7	63.5	11,700	150
151	25.7	71.9	15,700	29.0	68.5	13,900	30.8	60.5	11,700	151
155				25.3	58.2	13,600	26.9	48.3	11,600	155

MLC150-1 S-2

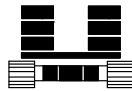
ASME B30.5



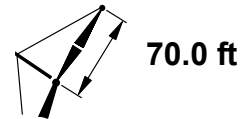
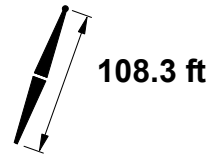
	5°			15°			25°			
 ft	 °	 ft	 lb	 °	 ft	 lb	 °	 ft	 lb	 ft
42	78.9	173.2	31,200							42
44	78.3	172.8	30,800							44
46	77.6	172.3	30,500							46
48	76.9	171.7	30,100							48
50	76.2	171.2	29,800							50
54	74.4	170.0	29,200	79.0	168.7	27,300				54
55	74.4	169.7	29,000	78.6	168.4	27,100				55
60	72.6	168.1	28,300	76.8	166.7	26,500				60
65	70.9	166.2	27,500	75.0	164.8	25,900				65
66	69.8	165.8	27,400	74.6	164.4	25,800	79.0	161.2	20,300	66
70	69.0	164.2	26,800	73.2	162.8	25,300	77.5	159.5	19,600	70
75	67.2	162.0	26,100	71.3	160.6	24,700	75.6	157.3	18,800	75
80	65.4	159.6	25,500	69.5	158.2	24,200	73.7	154.8	18,000	80
85	63.5	157.0	24,900	67.6	155.6	23,600	71.7	152.1	17,400	85
90	61.5	154.2	24,300	65.6	152.7	22,500	69.7	149.2	16,700	90
95	59.6	151.2	23,600	63.6	149.7	21,500	67.7	146.1	16,100	95
100	57.6	147.9	23,100	61.6	146.4	20,600	65.6	142.7	15,600	100
105	55.5	144.4	22,600	59.5	142.8	19,800	63.5	139.0	15,100	105
110	53.4	140.6	22,100	57.4	138.9	19,000	61.3	135.0	14,600	110
115	51.2	136.4	21,500	55.2	134.7	18,300	59.0	130.7	14,200	115
120	49.0	132.0	21,100	52.9	130.2	17,600	56.6	126.0	13,800	120
125	46.6	127.1	20,400	50.5	125.3	17,000	54.2	120.9	13,400	125
130	44.2	121.9	19,500	48.0	120.0	16,500	51.6	115.4	13,100	130
135	41.6	116.2	18,800	45.4	114.1	15,900	48.9	109.3	12,800	135
140	38.9	109.9	18,100	42.7	107.7	15,500	46.0	102.5	12,500	140
145	36.0	102.9	17,400	39.7	100.6	15,000	42.9	95.0	12,200	145
150	32.9	95.1	16,900	36.5	92.6	14,600	39.4	86.4	12,000	150
155	29.5	86.2	16,000	33.0	83.4	14,200	35.6	76.4	11,800	155
160	25.6	75.8	15,200	29.0	72.6	13,900	31.1	64.3	11,700	160
163				25.8	64.7	13,700	27.8	55.4	11,600	163
164				25.2	62.1	13,600				164

MLC150-1 S-2

ASME B30.5



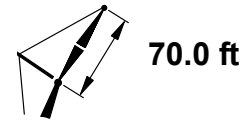
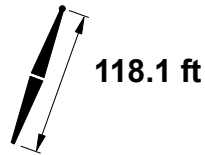
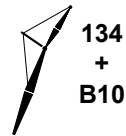
110,500 lb
+
35,000 lb

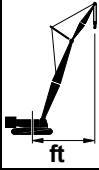
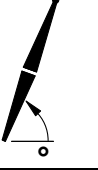
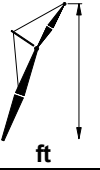
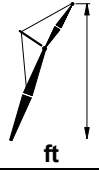
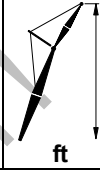


	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
44	78.9	182.9	31,000							44
46	78.3	182.4	30,600							46
48	77.6	181.9	30,300							48
50	76.9	181.4	30,000							50
55	75.3	180.0	29,200							55
56	74.6	179.7	29,100	78.9	178.3	27,100				56
60	73.6	178.4	28,500	77.6	177.0	26,700				60
65	72.0	176.7	27,800	75.9	175.3	26,100				65
68	70.4	175.6	27,400	74.4	174.2	25,700	78.9	170.8	20,300	68
70	70.3	174.8	27,100	74.2	173.4	25,500	78.2	170.0	20,000	70
75	68.5	172.8	26,500	72.4	171.3	25,000	76.5	167.9	19,200	75
80	66.8	170.6	25,900	70.7	169.1	24,500	74.7	165.6	18,400	80
85	65.0	168.1	25,300	68.9	166.6	23,900	72.9	163.1	17,800	85
90	63.2	165.5	24,600	67.1	164.0	23,300	71.0	160.4	17,100	90
95	61.4	162.7	24,100	65.3	161.2	22,300	69.1	157.5	16,500	95
100	59.6	159.7	23,500	63.4	158.1	21,400	67.2	154.4	16,000	100
105	57.7	156.4	23,100	61.5	154.8	20,600	65.2	151.0	15,500	105
110	55.7	152.9	22,500	59.5	151.3	19,800	63.2	147.3	15,000	110
115	53.7	149.1	22,100	57.5	147.4	19,000	61.1	143.4	14,600	115
120	51.7	145.1	21,600	55.4	143.3	18,400	59.0	139.2	14,200	120
125	49.6	140.7	21,100	53.3	138.9	17,700	56.8	134.6	13,800	125
130	47.4	136.0	20,600	51.1	134.2	17,100	54.5	129.7	13,400	130
135	45.1	131.0	19,500	48.8	129.0	16,600	52.1	124.4	13,100	135
140	42.8	125.5	18,500	46.4	123.4	16,100	49.6	118.5	12,800	140
145	40.3	119.5	17,500	43.8	117.3	15,700	47.0	112.1	12,500	145
150	37.7	112.9	16,600	41.2	110.6	15,300	44.2	105.1	12,300	150
155	34.9	105.6	15,700	38.3	103.2	14,800	41.1	97.2	12,100	155
160	31.8	97.5	14,900	35.2	94.8	14,500	37.8	88.2	11,900	160
165	28.5	88.3	14,100	31.7	85.3	14,100	34.0	77.8	11,700	165
169	25.5	79.8	13,600	27.8	76.3	13,700	30.0	67.7	11,600	169
170				27.8	74.0	13,600	29.6	65.1	11,600	170
172				25.7	68.7	13,300	27.5	59.1	11,600	172
173				25.1	66.0	13,200				173

MLC150-1 S-2

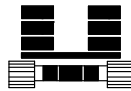
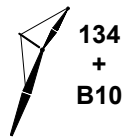
ASME B30.5



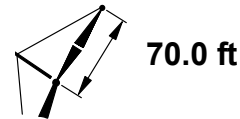
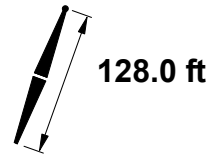
	5°			15°			25°			
										
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
46	78.9	192.5	30,700							46
48	78.3	192.0	30,400							48
50	77.6	191.5	30,100							50
55	76.1	190.2	29,400							55
58	74.8	189.3	29,000	78.9	187.9	27,000				58
60	74.5	188.8	28,700	78.3	187.3	26,800				60
65	72.9	187.1	28,000	76.7	185.7	26,200				65
70	71.3	185.4	27,400	75.0	183.9	25,700	78.9	180.4	20,300	70
75	69.7	183.4	26,800	73.4	182.0	25,200	77.2	178.5	19,500	75
80	68.1	181.3	26,200	71.8	179.8	24,700	75.6	176.3	18,800	80
85	66.4	179.1	25,600	70.1	177.6	24,200	73.9	174.0	18,100	85
90	64.7	176.6	25,000	68.4	175.1	23,800	72.1	171.4	17,500	90
95	63.0	174.0	24,500	66.7	172.4	23,100	70.4	168.7	16,900	95
100	61.3	171.2	23,900	64.9	169.6	22,200	68.6	165.8	16,400	100
105	59.6	168.2	23,400	63.2	166.5	21,300	66.8	162.7	15,900	105
110	57.8	164.9	23,000	61.4	163.2	20,500	64.9	159.3	15,400	110
115	55.9	161.4	22,500	59.5	159.7	19,800	63.0	155.7	15,000	115
120	54.1	157.7	22,000	57.6	156.0	19,000	61.0	151.8	14,600	120
125	52.1	153.7	21,500	55.7	151.9	18,500	59.0	147.7	14,200	125
130	50.1	149.5	20,300	53.6	147.6	17,900	57.0	143.2	13,900	130
135	48.1	144.9	19,100	51.6	143.0	17,300	54.8	138.4	13,500	135
140	46.0	140.0	18,100	49.4	138.0	16,800	52.6	133.3	13,200	140
145	43.8	134.6	17,100	47.2	132.6	16,300	50.3	127.6	12,900	145
150	41.5	128.9	16,200	44.9	126.7	15,800	47.9	121.5	12,600	150
155	39.1	122.6	15,300	42.4	120.4	15,400	45.3	114.9	12,400	155
160	36.5	115.8	14,500	39.8	113.4	14,800	42.5	107.5	12,200	160
165	33.8	108.3	13,700	37.0	105.6	14,000	39.6	99.3	12,000	165
170	30.8	99.8	13,000	34.0	97.0	13,300	36.3	90.0	11,800	170
175	27.6	90.3	12,400	30.6	87.1	12,600	32.6	79.1	11,700	175
178	25.4	83.8	12,000	27.6	80.0	12,100	29.6	71.1	11,600	178
180				26.7	75.4	11,900	28.2	65.8	11,600	180
181				25.9	72.7	11,700	27.2	62.8	11,600	181

MLC150-1 S-2

ASME B30.5



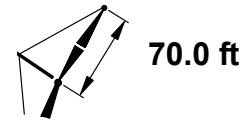
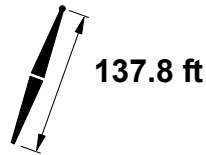
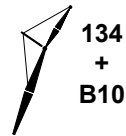
110,500 lb
+
35,000 lb



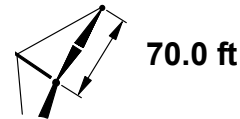
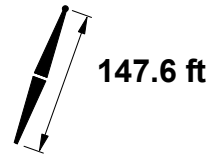
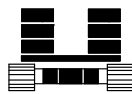
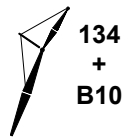
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
49	78.8	202.1	28,800							49
50	78.5	201.9	28,700							50
55	77.1	200.7	28,100							55
60	75.6	199.3	27,400							60
61	74.8	199.0	27,300	78.8	197.5	25,400				61
65	74.1	197.8	26,800	77.6	196.3	25,000				65
70	72.6	196.1	26,200	76.1	194.6	24,500				70
73	71.4	195.1	25,900	74.8	193.6	24,300	78.8	190.0	21,100	73
75	71.0	194.4	25,700	74.6	192.8	24,100	78.2	189.3	20,700	75
80	69.5	192.4	25,200	73.0	190.9	23,600	76.6	187.3	20,000	80
85	68.0	190.3	24,700	71.5	188.7	23,200	75.0	185.1	19,300	85
90	66.4	188.0	24,200	69.9	186.5	22,800	73.4	182.8	18,600	90
95	64.8	185.6	23,700	68.3	184.0	22,400	71.8	180.3	18,000	95
100	63.2	183.0	23,200	66.6	181.4	22,000	70.1	177.6	17,400	100
105	61.5	180.2	22,700	65.0	178.5	21,600	68.4	174.7	16,900	105
110	59.9	177.2	22,300	63.3	175.5	21,300	66.7	171.6	16,400	110
115	58.2	174.0	21,900	61.6	172.3	20,900	64.9	168.3	15,900	115
120	56.4	170.6	21,400	59.8	168.9	20,500	63.1	164.8	15,500	120
125	54.7	167.0	21,000	58.0	165.2	19,900	61.3	161.0	15,100	125
130	52.8	163.1	20,000	56.2	161.3	19,300	59.4	157.0	14,600	130
135	51.0	159.0	18,800	54.3	157.1	18,600	57.5	152.6	14,300	135
140	49.1	154.5	17,800	52.4	152.6	18,100	55.5	148.0	14,000	140
145	47.1	149.8	16,800	50.4	147.8	17,200	53.4	143.1	13,700	145
150	45.1	144.7	15,900	48.3	142.6	16,300	51.3	137.7	13,400	150
155	42.9	139.2	15,000	46.2	137.1	15,400	49.0	131.9	13,100	155
160	40.7	133.3	14,200	43.9	131.1	14,500	46.7	125.7	12,800	160
165	38.4	126.9	13,400	41.5	124.6	13,700	44.2	118.8	12,700	165
170	35.9	120.0	12,700	39.0	117.4	13,000	41.5	111.3	12,400	170
175	33.3	112.3	12,100	36.3	109.6	12,300	38.7	103.0	12,200	175
180	30.5	103.7	11,400	33.4	100.8	11,600	35.5	93.5	11,800	180
185	27.4	94.1	10,800	30.2	90.8	11,000	32.0	82.5	11,100	185
188	25.3	87.6	10,500	27.6	83.7	10,600	29.0	74.6	10,700	188
190				26.5	79.0	10,400	27.8	69.3	10,500	190
191				25.7	76.4	10,300	26.9	66.2	10,300	191

MLC150-1 S-2

ASME B30.5



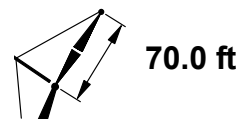
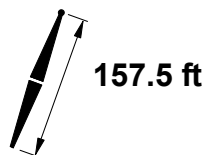
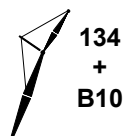
	5°			15°			25°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
51	78.8	211.7	28,600							51
55	77.7	210.8	28,100							55
60	76.3	209.5	27,500							60
63	74.8	208.7	27,200	78.8	207.2	25,300				63
65	74.8	208.1	27,000	78.2	206.6	25,000				65
70	73.4	206.5	26,400	76.8	205.0	24,600				70
75	72.0	204.8	25,900	75.3	203.3	24,200	78.8	199.6	21,000	75
80	70.5	203.0	25,400	73.9	201.4	23,800	77.3	197.8	20,300	80
85	69.0	201.0	24,800	72.4	199.4	23,400	75.8	195.7	19,600	85
90	67.6	198.8	24,400	70.9	197.3	23,000	74.3	193.5	19,000	90
95	66.1	196.6	24,000	69.4	194.9	22,600	72.7	191.1	18,300	95
100	64.5	194.1	23,400	67.8	192.5	22,300	71.2	188.6	17,800	100
105	63.0	191.5	23,100	66.3	189.8	21,900	69.6	185.9	17,300	105
110	61.4	188.7	22,500	64.7	187.0	21,500	68.0	183.0	16,700	110
115	59.8	185.7	22,100	63.1	184.0	21,100	66.3	179.9	16,200	115
120	58.2	182.5	21,700	61.5	180.8	20,800	64.7	176.7	15,800	120
125	56.6	179.1	20,900	59.8	177.3	20,500	62.9	173.1	15,400	125
130	54.9	175.5	19,600	58.1	173.7	19,900	61.2	169.4	15,100	130
135	53.2	171.7	18,400	56.4	169.8	19,000	59.4	165.4	14,700	135
140	51.4	167.6	17,400	54.6	165.7	17,900	57.6	161.2	14,400	140
145	49.6	163.3	16,400	52.8	161.3	16,900	55.7	156.7	14,000	145
150	47.7	158.6	15,500	50.9	156.6	15,900	53.8	151.8	13,700	150
155	45.8	153.7	14,600	48.9	151.6	15,000	51.7	146.6	13,400	155
160	43.8	148.4	13,800	46.9	146.2	14,200	49.7	141.1	13,200	160
165	41.8	142.7	13,000	44.8	140.5	13,400	47.5	135.1	12,900	165
170	39.6	136.6	12,300	42.6	134.2	12,700	45.2	128.5	12,700	170
175	37.3	130.0	11,700	40.3	127.4	12,000	42.7	121.4	12,200	175
180	34.9	122.7	11,000	37.8	120.1	11,300	40.2	113.6	11,500	180
185	32.4	114.8	10,400	35.2	111.9	10,700	37.4	105.0	10,900	185
190	29.6	105.9	9,900	32.4	102.8	10,100	34.3	95.2	10,200	190
195	26.6	96.0	9,300	29.2	92.5	9,500	30.8	83.8	9,600	195
197	25.2	91.6	9,100	27.4	87.6	9,300	28.4	78.3	9,400	197
200				25.6	80.3	9,000	26.7	70.0	9,000	200



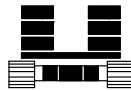
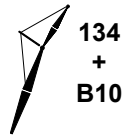
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
53	78.8	221.4	28,400							53
55	78.2	220.9	28,100							55
60	76.9	219.7	27,600							60
65	75.5	218.3	27,000	78.8	216.8	25,100				65
70	74.2	216.8	26,500	77.4	215.3	24,700				70
75	72.8	215.2	26,000	76.0	213.7	24,300				75
77	71.6	214.5	25,800	75.2	212.9	24,200	78.8	209.3	21,000	77
80	71.4	213.5	25,500	74.6	211.9	23,900	77.9	208.2	20,600	80
85	70.0	211.6	25,000	73.2	210.0	23,600	76.5	206.2	19,900	85
90	68.6	209.6	24,600	71.8	207.9	23,100	75.1	204.2	19,300	90
95	67.2	207.4	24,100	70.4	205.8	22,800	73.6	201.9	18,600	95
100	65.8	205.1	23,700	68.9	203.4	22,400	72.1	199.5	18,100	100
105	64.3	202.6	23,200	67.5	200.9	22,000	70.6	197.0	17,500	105
110	62.8	199.9	22,800	66.0	198.3	21,700	69.1	194.3	17,100	110
115	61.3	197.1	22,400	64.5	195.4	21,400	67.6	191.4	16,600	115
120	59.8	194.2	21,900	62.9	192.4	21,100	66.0	188.3	16,200	120
125	58.3	191.0	20,500	61.4	189.2	20,700	64.4	185.0	15,800	125
130	56.7	187.6	19,300	59.8	185.8	19,900	62.8	181.5	15,400	130
135	55.1	184.1	18,100	58.2	182.2	18,700	61.1	177.8	15,000	135
140	53.5	180.3	17,100	56.5	178.4	17,600	59.4	173.9	14,700	140
145	51.8	176.3	16,100	54.8	174.3	16,600	57.7	169.7	14,300	145
150	50.1	172.0	15,100	53.1	170.0	15,600	55.9	165.3	14,100	150
155	48.3	167.5	14,300	51.3	165.4	14,800	54.1	160.6	13,800	155
160	46.5	162.6	13,500	49.5	160.5	13,900	52.2	155.5	13,500	160
165	44.6	157.5	12,700	47.6	155.3	13,100	50.2	150.1	13,300	165
170	42.7	152.0	12,000	45.6	149.7	12,400	48.2	144.3	12,700	170
175	40.7	146.1	11,400	43.6	143.7	11,700	46.0	138.1	12,000	175
180	38.6	139.7	10,700	41.4	137.3	11,000	43.8	131.3	11,300	180
185	36.4	132.9	10,100	39.2	130.2	10,400	41.4	124.0	10,700	185
190	34.0	125.4	9,600	36.8	122.6	9,800	38.9	115.9	10,000	190
195	31.5	117.2	9,000	34.2	114.2	9,300	36.1	106.9	9,400	195
200	28.8	108.1	8,500	31.4	104.8	8,700	33.1	96.7	8,800	200
205	25.8	97.8	8,000	28.3	94.1	8,200	29.7	85.0	8,300	205
206	25.2	95.5	7,900	27.3	91.6	8,100	28.3	82.2	8,200	206
208				25.8	86.7	7,900	27.4	76.8	8,000	208
209				25.5	84.3	7,800				209

MLC150-1 S-2

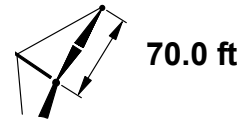
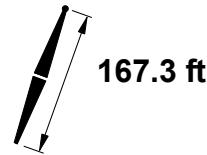
ASME B30.5



	5°			15°			25°			
	ft	o	ft	lb	ft	lb	ft	lb	ft	
54	79.0	231.2	28,000							54
55	78.8	231.0	27,900							55
60	77.5	229.8	27,500							60
65	76.2	228.5	27,000							65
67	75.2	228.0	26,800	78.8	226.4	24,900				67
70	74.9	227.1	26,600	78.0	225.5	24,700				70
75	73.6	225.6	26,000	76.7	224.0	24,400				75
79	72.2	224.3	25,700	75.2	222.6	24,100	78.8	218.9	21,000	79
80	72.3	223.9	25,600	75.3	222.3	24,000	78.5	218.5	20,900	80
85	70.9	222.1	25,100	74.0	220.5	23,600	77.1	216.7	20,200	85
90	69.6	220.2	24,600	72.7	218.6	23,300	75.8	214.7	19,600	90
95	68.2	218.1	24,200	71.3	216.5	22,900	74.4	212.6	19,000	95
100	66.9	215.9	23,700	69.9	214.3	22,600	73.0	210.3	18,500	100
105	65.5	213.6	23,300	68.5	211.9	22,300	71.6	207.9	17,900	105
110	64.1	211.1	22,900	67.1	209.4	22,000	70.1	205.4	17,500	110
115	62.7	208.4	22,500	65.7	206.7	21,600	68.7	202.6	16,900	115
120	61.3	205.6	21,500	64.3	203.9	21,300	67.2	199.7	16,500	120
125	59.8	202.6	20,200	62.8	200.8	20,900	65.7	196.7	16,100	125
130	58.3	199.5	18,900	61.3	197.7	19,600	64.2	193.4	15,700	130
135	56.8	196.1	17,700	59.8	194.3	18,400	62.6	189.9	15,400	135
140	55.3	192.6	16,700	58.2	190.7	17,300	61.0	186.3	15,000	140
145	53.7	188.8	15,700	56.7	186.9	16,300	59.4	182.4	14,600	145
150	52.2	184.9	14,800	55.0	182.9	15,300	57.8	178.3	14,400	150
155	50.5	180.7	13,900	53.4	178.7	14,400	56.1	173.9	14,100	155
160	48.9	176.2	13,100	51.7	174.2	13,600	54.3	169.3	13,800	160
165	47.1	171.5	12,300	50.0	169.4	12,800	52.5	164.4	13,200	165
170	45.4	166.5	11,600	48.2	164.3	12,000	50.7	159.1	12,400	170
175	43.5	161.2	11,000	46.3	158.9	11,300	48.8	153.5	11,700	175
180	41.6	155.5	10,300	44.4	153.1	10,700	46.8	147.5	11,000	180
185	39.7	149.3	9,700	42.4	146.9	10,100	44.7	141.0	10,400	185
190	37.6	142.8	9,200	40.3	140.2	9,500	42.5	134.0	9,700	190
195	35.5	135.7	8,600	38.1	133.0	8,900	40.2	126.4	9,100	195
200	33.2	128.0	8,100	35.7	125.1	8,400	37.7	118.1	8,600	200
205	30.7	119.5	7,700	33.2	116.4	7,900	35.0	108.8	8,000	205
210	28.0	110.1	7,200	30.5	106.7	7,400	32.0	98.3	7,500	210
215	25.1	99.5	6,700	27.4	95.7	6,900	28.7	86.1	7,000	215
217				25.7	90.7	6,700	27.2	80.6	6,800	217
218				25.4	88.2	6,600				218



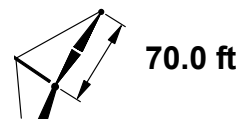
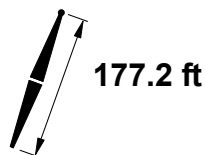
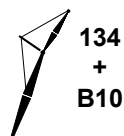
110,500 lb
+
35,000 lb

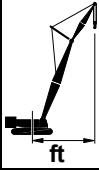
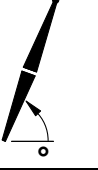
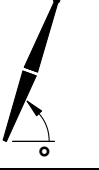
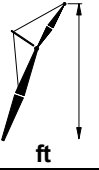
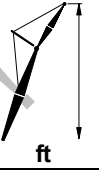


	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
56	79.0	240.9	27,500							56
60	78.0	240.0	27,200							60
65	76.8	238.7	26,800							65
68	75.4	237.9	26,500	79.0	236.3	24,800				68
70	75.5	237.4	26,400	78.5	235.8	24,700				70
75	74.3	235.9	25,900	77.2	234.3	24,400				75
80	73.0	234.3	25,500	76.0	232.7	24,000	79.0	228.9	21,100	80
85	71.8	232.6	25,000	74.7	231.0	23,700	77.7	227.1	20,500	85
90	70.5	230.8	24,500	73.4	229.1	23,400	76.4	225.2	19,800	90
95	69.2	228.8	24,100	72.1	227.1	23,000	75.1	223.2	19,300	95
100	67.9	226.7	23,700	70.8	225.0	22,800	73.8	221.1	18,700	100
105	66.6	224.5	23,400	69.5	222.8	22,400	72.4	218.8	18,200	105
110	65.3	222.1	22,900	68.2	220.4	22,100	71.0	216.3	17,700	110
115	63.9	219.6	22,500	66.8	217.8	21,800	69.7	213.7	17,300	115
120	62.6	216.9	21,200	65.4	215.1	21,500	68.3	211.0	16,800	120
125	61.2	214.1	19,800	64.0	212.3	20,600	66.9	208.1	16,400	125
130	59.8	211.1	18,500	62.6	209.3	19,300	65.4	205.0	16,100	130
135	58.4	208.0	17,400	61.2	206.1	18,100	64.0	201.8	15,700	135
140	56.9	204.6	16,300	59.8	202.8	17,000	62.5	198.3	15,300	140
145	55.5	201.1	15,300	58.3	199.2	15,900	61.0	194.7	15,000	145
150	54.0	197.4	14,400	56.8	195.5	15,000	59.4	190.9	14,700	150
155	52.5	193.5	13,500	55.2	191.5	14,100	57.9	186.8	14,400	155
160	50.9	189.4	12,700	53.7	187.3	13,200	56.2	182.5	13,700	160
165	49.3	185.0	12,000	52.1	182.9	12,500	54.6	178.0	12,900	165
170	47.7	180.4	11,300	50.4	178.2	11,700	52.9	173.2	12,100	170
175	46.0	175.5	10,600	48.7	173.3	11,000	51.1	168.0	11,400	175
180	44.3	170.3	10,000	47.0	168.0	10,400	49.3	162.6	10,700	180
185	42.5	164.7	9,400	45.2	162.4	9,700	47.5	156.8	10,100	185
190	40.7	158.8	8,800	43.3	156.4	9,100	45.5	150.5	9,400	190
195	38.7	152.5	8,300	41.3	150.0	8,600	43.5	143.9	8,900	195
200	36.7	145.7	7,800	39.3	143.1	8,100	41.3	136.6	8,300	200
205	34.6	138.4	7,300	37.1	135.6	7,500	39.0	128.8	7,800	205
210	32.4	130.5	6,800	34.8	127.5	7,100	36.6	120.2	7,200	210
215	29.9	121.8	6,400	32.3	118.5	6,600	33.9	110.6	6,700	215
220	27.3	112.1	6,000	29.6	108.5	6,100	31.0	99.7	6,200	220
224	25.1	103.5	5,600	26.6	99.5	5,800	27.8	89.7	5,900	224
225				26.7	97.2	5,700	27.7	87.2	5,800	225
226				25.5	94.7	5,600	27.0	84.4	5,700	226
227				25.3	92.1	5,500				227

MLC150-1 S-2

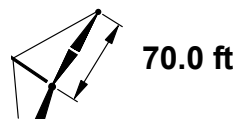
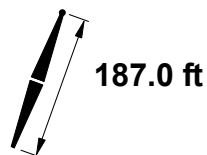
ASME B30.5



	5°			15°			25°			
										
	ft	o	ft	lb	ft	lb	ft	lb	ft	ft
58	78.9	250.5	27,000							58
60	78.5	250.1	26,900							60
65	77.3	248.9	26,500							65
70	76.1	247.6	26,100	79.0	246.0	24,700				70
75	74.9	246.2	25,700	77.8	244.5	24,300				75
80	73.7	244.6	25,300	76.6	243.0	24,100				80
82	72.6	244.0	25,100	75.6	242.3	23,900	79.0	238.5	21,100	82
85	72.5	243.0	24,900	75.3	241.4	23,700	78.2	237.5	20,700	85
90	71.3	241.3	24,500	74.1	239.6	23,400	77.0	235.7	20,100	90
95	70.1	239.4	24,100	72.9	237.7	23,100	75.7	233.7	19,500	95
100	68.8	237.4	23,600	71.6	235.7	22,800	74.5	231.7	19,000	100
105	67.6	235.2	23,200	70.4	233.5	22,500	73.2	229.5	18,500	105
110	66.3	233.0	22,800	69.1	231.3	22,200	71.9	227.2	18,000	110
115	65.0	230.6	22,300	67.8	228.8	21,900	70.6	224.7	17,500	115
120	63.7	228.1	20,800	66.5	226.3	21,700	69.2	222.1	17,100	120
125	62.4	225.4	19,400	65.2	223.6	20,300	67.9	219.4	16,700	125
130	61.1	222.6	18,200	63.9	220.7	18,900	66.5	216.5	16,300	130
135	59.8	219.6	17,000	62.5	217.7	17,700	65.2	213.4	16,000	135
140	58.4	216.4	15,900	61.1	214.6	16,600	63.8	210.2	15,700	140
145	57.0	213.1	14,900	59.8	211.2	15,600	62.4	206.8	15,300	145
150	55.6	209.6	14,000	58.3	207.7	14,600	60.9	203.2	15,000	150
155	54.2	206.0	13,100	56.9	204.0	13,700	59.4	199.4	14,300	155
160	52.8	202.1	12,300	55.4	200.1	12,900	57.9	195.4	13,400	160
165	51.3	198.0	11,600	53.9	196.0	12,100	56.4	191.1	12,600	165
170	49.8	193.7	10,900	52.4	191.6	11,400	54.8	186.7	11,800	170
175	48.2	189.2	10,200	50.8	187.0	10,700	53.2	181.9	11,100	175
180	46.6	184.4	9,600	49.2	182.2	10,000	51.5	176.9	10,400	180
185	45.0	179.3	9,000	47.6	177.0	9,400	49.8	171.6	9,800	185
190	43.3	173.9	8,400	45.8	171.6	8,800	48.1	166.0	9,100	190
195	41.5	168.2	7,900	44.1	165.8	8,200	46.2	160.0	8,500	195
200	39.7	162.1	7,400	42.2	159.6	7,700	44.3	153.5	8,000	200
205	37.8	155.6	6,900	40.3	152.9	7,200	42.3	146.6	7,400	205
210	35.9	148.6	6,400	38.3	145.8	6,700	40.2	139.2	6,900	210
215	33.8	141.1	6,000	36.2	138.1	6,200	38.0	131.1	6,400	215
220	31.6	132.9	5,600	33.9	129.8	5,800	35.6	122.2	6,000	220
225	29.2	124.0	5,200	31.5	120.6	5,400	33.0	112.3	5,500	225
230	26.7	114.0	4,800	28.9	110.3	5,000	30.1	101.2	5,000	230
233	25.0	107.5	4,600	26.2	103.3	4,700	27.6	93.4	4,800	233
235				25.9	98.6	4,600	26.8	88.2	4,600	235
236				25.3	96.1	4,500				236



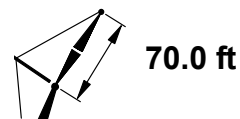
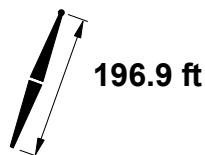
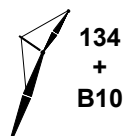
110,500 lb
+
35,000 lb

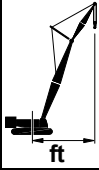
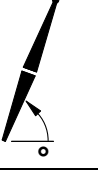
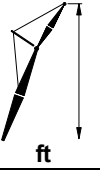
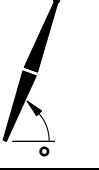
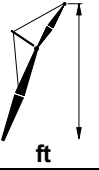
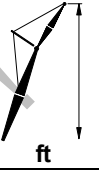


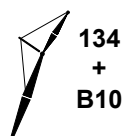
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
60	78.9	260.1	26,400							60
65	77.8	259.0	26,100							65
70	76.7	257.8	25,800							70
72	75.6	257.2	25,600	78.9	255.6	24,500				72
75	75.5	256.4	25,400	78.2	254.8	24,300				75
80	74.4	254.9	25,000	77.1	253.3	24,000				80
84	73.2	253.7	24,700	75.4	252.0	23,800	78.9	248.1	21,000	84
85	73.2	253.4	24,600	75.9	251.7	23,700	78.7	247.8	20,900	85
90	72.0	251.7	24,200	74.7	250.0	23,400	77.5	246.1	20,300	90
95	70.9	249.9	23,900	73.6	248.2	23,100	76.3	244.2	19,800	95
100	69.7	248.0	23,500	72.4	246.3	22,800	75.1	242.3	19,300	100
105	68.5	246.0	23,000	71.2	244.2	22,600	73.9	240.2	18,700	105
110	67.3	243.8	22,800	70.0	242.1	22,300	72.6	238.0	18,300	110
115	66.1	241.5	22,000	68.7	239.8	22,000	71.4	235.6	17,800	115
120	64.8	239.1	20,500	67.5	237.3	21,400	70.1	233.1	17,400	120
125	63.6	236.6	19,100	66.2	234.8	20,000	68.9	230.5	17,000	125
130	62.3	233.9	17,800	65.0	232.0	18,700	67.6	227.8	16,600	130
135	61.1	231.0	16,700	63.7	229.2	17,500	66.3	224.9	16,300	135
140	59.8	228.1	15,600	62.4	226.2	16,300	64.9	221.8	15,900	140
145	58.5	224.9	14,600	61.1	223.0	15,300	63.6	218.6	15,600	145
150	57.1	221.6	13,700	59.7	219.7	14,300	62.2	215.2	15,000	150
155	55.8	218.2	12,800	58.4	216.2	13,400	60.8	211.6	14,100	155
160	54.4	214.5	12,000	57.0	212.5	12,600	59.4	207.8	13,200	160
165	53.0	210.7	11,200	55.6	208.7	11,800	58.0	203.9	12,400	165
170	51.6	206.7	10,500	54.2	204.6	11,100	56.5	199.7	11,600	170
175	50.2	202.4	9,900	52.7	200.3	10,400	55.0	195.3	10,800	175
180	48.7	198.0	9,200	51.2	195.8	9,700	53.5	190.7	10,200	180
185	47.2	193.2	8,600	49.7	191.0	9,100	51.9	185.8	9,500	185
190	45.6	188.3	8,100	48.1	186.0	8,500	50.3	180.6	8,900	190
195	44.0	183.0	7,600	46.5	180.7	7,900	48.6	175.1	8,300	195
200	42.3	177.5	7,000	44.8	175.0	7,400	46.9	169.3	7,700	200
205	40.6	171.6	6,600	43.0	169.1	6,900	45.1	163.1	7,200	205
210	38.9	165.3	6,100	41.2	162.7	6,400	43.2	156.4	6,700	210
215	37.0	158.6	5,700	39.4	155.9	6,000	41.2	149.3	6,200	215
220	35.1	151.4	5,300	37.4	148.5	5,500	39.2	141.6	5,700	220
225	33.0	143.7	4,900	35.3	140.6	5,100	37.0	133.3	5,300	225
230	30.9	135.3	4,400	33.1	132.0	4,700	34.6	124.2	4,800	230
235	28.6	126.1	4,000	30.7	122.6	4,200	32.0	114.0	4,400	235
240	26.1	115.9	3,600	28.1	112.0	3,800	29.2	102.5	3,900	240
241	25.5	113.7	3,500	27.4	109.6	3,700	28.3	99.9	3,800	241
244				25.6	102.4	3,400	26.7	92.0	3,500	244
245				25.2	100.0	3,300				245

MLC150-1 S-2

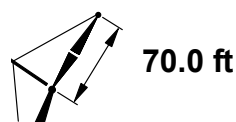
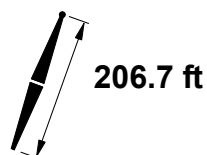
ASME B30.5

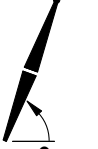
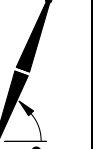
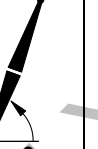
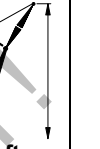


	5°			15°			25°			
 ft	 °	 ft	 lb	 °	 ft	 lb	 °	 ft	 lb	 ft
62	78.9	269.8	25,800							62
65	78.2	269.1	25,700							65
70	77.2	267.9	25,400							70
74	76.2	266.9	25,100	78.9	265.2	24,300				74
75	76.0	266.6	25,000	78.7	264.9	24,200				75
80	74.9	265.2	24,700	77.6	263.5	23,900				80
85	73.8	263.7	24,300	76.5	262.0	23,700				85
86	72.8	263.4	24,300	75.8	261.7	23,600	78.9	257.7	21,000	86
90	72.7	262.1	24,000	75.3	260.4	23,400	78.0	256.4	20,600	90
95	71.6	260.4	23,600	74.2	258.7	23,100	76.9	254.6	20,000	95
100	70.4	258.5	23,300	73.1	256.8	22,800	75.7	252.8	19,500	100
105	69.3	256.6	22,800	71.9	254.8	22,600	74.5	250.8	19,000	105
110	68.2	254.5	22,500	70.7	252.8	22,300	73.3	248.7	18,500	110
115	67.0	252.3	21,600	69.6	250.6	22,100	72.1	246.4	18,100	115
120	65.8	250.0	20,100	68.4	248.3	21,100	70.9	244.1	17,700	120
125	64.6	247.6	18,700	67.2	245.8	19,700	69.7	241.6	17,300	125
130	63.4	245.0	17,400	66.0	243.2	18,300	68.5	238.9	16,900	130
135	62.2	242.4	16,300	64.8	240.5	17,100	67.3	236.2	16,600	135
140	61.0	239.5	15,200	63.5	237.6	16,000	66.0	233.3	16,200	140
145	59.8	236.5	14,200	62.3	234.6	15,000	64.7	230.2	15,700	145
150	58.5	233.4	13,300	61.0	231.5	14,000	63.4	227.0	14,700	150
155	57.2	230.1	12,400	59.7	228.2	13,100	62.1	223.6	13,800	155
160	55.9	226.7	11,600	58.4	224.7	12,200	60.8	220.0	12,900	160
165	54.6	223.1	10,900	57.1	221.1	11,500	59.4	216.3	12,000	165
170	53.3	219.3	10,100	55.7	217.2	10,700	58.1	212.4	11,300	170
175	51.9	215.3	9,500	54.4	213.2	10,000	56.6	208.3	10,500	175
180	50.5	211.1	8,800	53.0	209.0	9,400	55.2	203.9	9,800	180
185	49.1	206.7	8,300	51.5	204.5	8,700	53.7	199.4	9,200	185
190	47.7	202.1	7,700	50.1	199.8	8,100	52.2	194.6	8,600	190
195	46.2	197.2	7,200	48.6	194.9	7,600	50.7	189.5	8,000	195
200	44.6	192.1	6,700	47.0	189.7	7,100	49.1	184.2	7,400	200
205	43.1	186.7	6,200	45.4	184.2	6,500	47.4	178.5	6,900	205
210	41.5	180.9	5,700	43.8	178.4	6,100	45.7	172.5	6,400	210
215	39.8	174.9	5,300	42.1	172.3	5,600	44.0	166.1	5,900	215
220	38.0	168.4	4,800	40.3	165.7	5,200	42.1	159.3	5,400	220
225	36.2	161.5	4,300	38.5	158.7	4,700	40.2	151.9	5,000	225
230	34.3	154.1	3,900	36.5	151.2	4,200	38.2	144.0	4,500	230
235	32.3	146.2	3,400	34.5	143.0	3,700	36.0	135.5	4,000	235
240	30.2	137.6	3,000	32.3	134.2	3,300	33.7	126.1	3,500	240
245							31.2	115.6	3,000	245



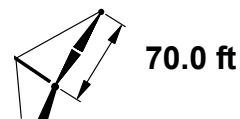
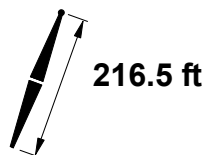
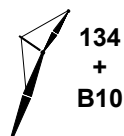
110,500 lb
+
35,000 lb



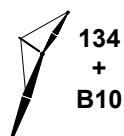
	5°			15°			25°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
64	78.9	279.4	25,200							64
65	78.7	279.2	25,100							65
70	77.6	278.0	24,900							70
75	76.6	276.8	24,600							75
76	75.8	276.5	24,500	78.9	274.8	24,100				76
80	75.5	275.4	24,300	78.0	273.7	23,800				80
85	74.4	274.0	24,000	77.0	272.3	23,600				85
88	73.4	273.1	23,800	75.4	271.3	23,400	78.9	267.4	21,000	88
90	73.3	272.4	23,700	75.9	270.7	23,300	78.5	266.7	20,700	90
95	72.3	270.8	23,300	74.8	269.1	23,100	77.3	265.0	20,200	95
100	71.2	269.0	23,000	73.7	267.3	22,900	76.2	263.2	19,800	100
105	70.1	267.2	22,700	72.6	265.4	22,600	75.1	261.3	19,200	105
110	69.0	265.2	22,400	71.5	263.4	22,300	74.0	259.3	18,700	110
115	67.9	263.1	21,200	70.3	261.3	22,100	72.8	257.1	18,300	115
120	66.7	260.9	19,700	69.2	259.1	20,800	71.7	254.9	17,900	120
125	65.6	258.6	18,400	68.1	256.7	19,300	70.5	252.5	17,600	125
130	64.5	256.1	17,100	66.9	254.3	18,000	69.4	250.0	17,100	130
135	63.3	253.5	15,900	65.8	251.7	16,800	68.2	247.3	16,800	135
140	62.1	250.8	14,800	64.6	249.0	15,700	67.0	244.6	16,400	140
145	60.9	248.0	13,800	63.4	246.1	14,600	65.8	241.7	15,400	145
150	59.8	245.0	12,900	62.2	243.1	13,700	64.5	238.6	14,400	150
155	58.5	241.9	12,000	61.0	240.0	12,800	63.3	235.4	13,500	155
160	57.3	238.6	11,200	59.7	236.7	11,900	62.0	232.0	12,600	160
165	56.1	235.2	10,500	58.5	233.2	11,100	60.7	228.5	11,800	165
170	54.8	231.6	9,800	57.2	229.6	10,400	59.4	224.8	11,000	170
175	53.5	227.8	9,100	55.9	225.8	9,700	58.1	220.9	10,200	175
180	52.2	223.9	8,500	54.6	221.8	9,000	56.8	216.8	9,500	180
185	50.9	219.8	7,900	53.2	217.6	8,400	55.4	212.6	8,900	185
190	49.5	215.4	7,300	51.8	213.2	7,800	54.0	208.1	8,300	190
195	48.1	210.9	6,800	50.4	208.6	7,300	52.5	203.4	7,700	195
200	46.7	206.1	6,300	49.0	203.8	6,700	51.0	198.4	7,100	200
205	45.2	201.1	5,800	47.5	198.7	6,200	49.5	193.2	6,600	205
210	43.7	195.8	5,300	46.0	193.4	5,700	48.0	187.6	6,100	210
215	42.2	190.2	4,800	44.5	187.7	5,200	46.4	181.8	5,600	215
220	40.6	184.3	4,300	42.8	181.7	4,700	44.7	175.6	5,100	220
225	39.0	178.1	3,800	41.2	175.4	4,200	43.0	169.0	4,600	225
230	37.3	171.4	3,400	39.4	168.6	3,700	41.1	162.0	4,000	230
235				37.6	161.4	3,300	39.3	154.5	3,500	235
240							37.3	146.4	3,100	240

MLC150-1 S-2

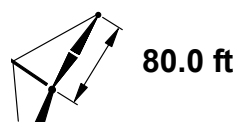
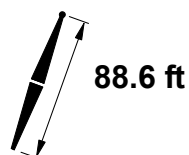
ASME B30.5



	5°			15°			25°			
	ft	o	ft	lb	ft	lb	ft	lb	ft	ft
66	78.9	289.1	24,500							66
70	78.0	288.2	24,300							70
75	77.0	287.0	24,100							75
78	75.8	286.2	23,900	78.9	284.5	23,400				78
80	76.0	285.7	23,800	78.5	283.9	23,400				80
85	75.0	284.3	23,500	77.4	282.5	23,300				85
90	73.9	282.8	23,200	76.4	281.0	23,200	78.9	277.0	21,000	90
95	72.9	281.2	22,900	75.3	279.4	22,900	77.8	275.4	20,500	95
100	71.8	279.5	22,600	74.3	277.7	22,700	76.7	273.6	20,000	100
105	70.8	277.7	22,300	73.2	275.9	22,500	75.7	271.8	19,400	105
110	69.7	275.8	22,000	72.1	274.0	22,300	74.6	269.8	19,000	110
115	68.7	273.8	20,900	71.1	272.0	22,000	73.5	267.8	18,600	115
120	67.6	271.7	19,400	70.0	269.8	20,500	72.4	265.6	18,200	120
125	66.5	269.4	18,000	68.9	267.6	19,000	71.3	263.3	17,700	125
130	65.4	267.1	16,700	67.8	265.2	17,700	70.1	260.9	17,400	130
135	64.3	264.6	15,500	66.7	262.8	16,500	69.0	258.4	17,000	135
140	63.2	262.0	14,500	65.5	260.2	15,300	67.9	255.8	16,200	140
145	62.0	259.3	13,500	64.4	257.4	14,300	66.7	253.0	15,100	145
150	60.9	256.5	12,500	63.3	254.6	13,300	65.5	250.1	14,100	150
155	59.7	253.5	11,700	62.1	251.6	12,400	64.3	247.0	13,200	155
160	58.6	250.4	10,800	60.9	248.4	11,600	63.1	243.8	12,300	160
165	57.4	247.1	10,100	59.7	245.1	10,800	61.9	240.5	11,400	165
170	56.2	243.7	9,400	58.5	241.7	10,000	60.7	237.0	10,700	170
175	55.0	240.1	8,700	57.3	238.1	9,300	59.4	233.3	9,900	175
180	53.7	236.4	8,100	56.0	234.3	8,700	58.2	229.4	9,200	180
185	52.5	232.5	7,500	54.8	230.4	8,000	56.9	225.4	8,600	185
190	51.2	228.4	6,900	53.5	226.3	7,500	55.5	221.2	7,900	190
195	49.9	224.1	6,400	52.1	221.9	6,900	54.2	216.8	7,400	195
200	48.5	219.7	5,800	50.8	217.4	6,400	52.8	212.1	6,800	200
205	47.2	215.0	5,300	49.4	212.7	5,800	51.4	207.2	6,300	205
210	45.8	210.0	4,700	48.0	207.7	5,300	49.9	202.1	5,800	210
215	44.4	204.9	4,200	46.6	202.4	4,700	48.5	196.7	5,200	215
220	42.9	199.4	3,700	45.1	196.9	4,200	46.9	191.0	4,600	220
225	41.4	193.7	3,200	43.5	191.1	3,700	45.3	185.0	4,100	225
230				42.0	185.0	3,200	43.7	178.7	3,600	230
235							42.0	171.9	3,100	235



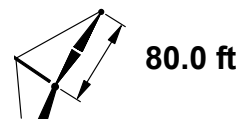
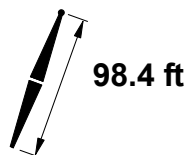
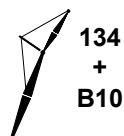
110,500 lb
+
35,000 lb

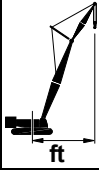
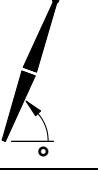
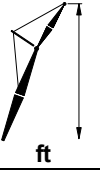
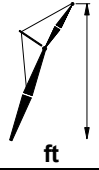
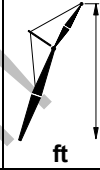


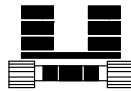
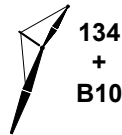
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
42	78.9	173.7	23,500							42
44	78.2	173.2	23,300							44
46	77.5	172.7	23,100							46
48	76.8	172.2	22,900							48
50	76.1	171.7	22,700							50
55	74.4	170.2	22,200							55
56	73.6	169.9	22,100	78.8	168.7	21,800				56
60	72.6	168.6	21,700	77.4	167.4	21,400				60
65	70.8	166.8	21,200	75.6	165.6	20,800				65
70	69.0	164.8	20,700	73.8	163.6	20,200	78.8	160.5	18,600	70
75	67.2	162.7	20,200	72.0	161.4	19,700	76.9	158.2	18,000	75
80	65.3	160.3	19,800	70.1	159.1	19,200	75.0	155.8	17,100	80
85	63.5	157.8	19,400	68.2	156.5	18,700	73.1	153.2	16,300	85
90	61.5	155.0	18,900	66.3	153.7	18,200	71.1	150.3	15,600	90
95	59.6	152.0	18,600	64.3	150.7	17,800	69.1	147.3	15,000	95
100	57.6	148.8	18,200	62.3	147.4	17,300	67.0	143.9	14,400	100
105	55.5	145.3	17,700	60.2	143.9	16,900	64.9	140.3	13,800	105
110	53.4	141.6	17,200	58.1	140.1	16,400	62.7	136.4	13,300	110
115	51.3	137.5	16,700	55.9	136.0	16,100	60.5	132.2	12,800	115
120	49.0	133.1	16,300	53.6	131.6	15,700	58.1	127.6	12,400	120
125	46.7	128.4	15,900	51.3	126.8	15,200	55.7	122.6	12,000	125
130	44.3	123.2	15,500	48.9	121.5	14,600	53.2	117.2	11,600	130
135	41.8	117.6	15,100	46.3	115.8	14,100	50.5	111.2	11,300	135
140	39.1	111.4	14,700	43.6	109.5	13,600	47.7	104.7	10,900	140
145	36.3	104.6	14,400	40.7	102.6	13,200	44.6	97.3	10,600	145
150	33.2	97.0	14,100	37.6	94.8	12,800	41.3	89.1	10,400	150
155	29.9	88.4	13,800	34.1	86.0	12,400	37.6	79.5	10,200	155
160	26.2	78.4	13,500	30.3	75.7	12,000	33.3	68.1	10,000	160
161	25.3	76.2	13,500	29.0	73.1	12,000	31.8	65.2	9,900	161
165				25.7	63.0	11,700	28.0	53.5	9,800	165
167							25.3	45.9	9,800	167

MLC150-1 S-2

ASME B30.5



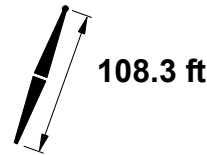
	5°			15°			25°			
 ft	 °	 ft	 lb	 °	 ft	 lb	 °	 ft	 lb	 ft
44	78.8	183.3	23,200							44
46	78.2	182.8	23,000							46
48	77.5	182.4	22,900							48
50	76.9	181.9	22,700							50
55	75.2	180.5	22,200							55
58	73.8	179.6	21,900	78.8	178.3	21,700				58
60	73.6	179.0	21,700	78.1	177.7	21,600				60
65	71.9	177.3	21,200	76.5	176.0	21,000				65
70	70.2	175.4	20,700	74.8	174.2	20,500				70
72	69.2	174.6	20,600	73.6	173.3	20,300	78.8	170.1	18,600	72
75	68.5	173.4	20,300	73.0	172.1	19,900	77.7	168.8	18,300	75
80	66.8	171.2	19,800	71.3	169.9	19,500	76.0	166.6	17,500	80
85	65.0	168.8	19,400	69.5	167.5	19,000	74.1	164.1	16,700	85
90	63.2	166.3	19,000	67.7	164.9	18,500	72.3	161.5	16,100	90
95	61.4	163.5	18,600	65.9	162.1	18,100	70.4	158.6	15,400	95
100	59.6	160.5	18,200	64.0	159.1	17,600	68.5	155.5	14,800	100
105	57.7	157.3	17,900	62.1	155.9	17,200	66.6	152.2	14,300	105
110	55.8	153.9	17,500	60.2	152.4	16,800	64.6	148.6	13,700	110
115	53.8	150.1	17,200	58.2	148.6	16,500	62.5	144.8	13,200	115
120	51.8	146.2	16,700	56.1	144.6	16,100	60.4	140.6	12,800	120
125	49.7	141.9	16,300	54.0	140.3	15,800	58.2	136.1	12,400	125
130	47.5	137.2	16,000	51.8	135.6	15,400	56.0	131.3	12,000	130
135	45.3	132.2	15,600	49.5	130.5	14,800	53.6	126.0	11,700	135
140	42.9	126.8	15,200	47.2	125.0	14,300	51.2	120.3	11,300	140
145	40.5	120.9	14,800	44.7	119.1	13,800	48.6	114.1	11,000	145
150	37.9	114.5	14,600	42.0	112.5	13,400	45.8	107.2	10,800	150
155	35.1	107.4	14,200	39.2	105.3	13,000	42.8	99.6	10,500	155
160	32.2	99.5	13,900	36.2	97.2	12,600	39.6	90.9	10,300	160
165	28.9	90.6	13,600	32.9	87.9	12,300	35.9	80.9	10,100	165
170	25.3	80.2	13,400	29.1	77.2	11,900	31.7	69.0	9,900	170
174				25.5	66.9	11,700	27.0	56.6	9,800	174
175							26.5	53.5	9,800	175



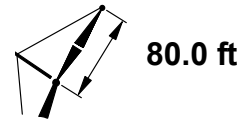
110,500 lb
+
35,000 lb



360°



108.3 ft

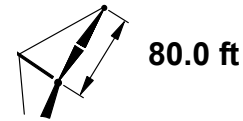
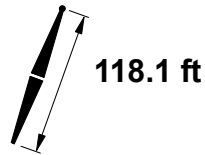
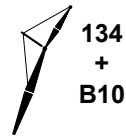


80.0 ft

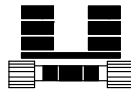
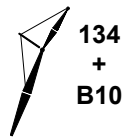
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
46	78.8	192.9	22,900							46
48	78.2	192.5	22,800							48
50	77.6	192.0	22,600							50
55	76.0	190.7	22,100							55
60	74.5	189.3	21,700	78.8	188.0	21,700				60
65	72.9	187.7	21,200	77.2	186.4	21,100				65
70	71.3	185.9	20,700	75.6	184.6	20,700				70
74	69.4	184.4	20,400	73.4	183.1	20,300	78.8	179.7	18,600	74
75	69.7	184.0	20,300	74.0	182.7	20,200	78.4	179.3	18,500	75
80	68.1	182.0	19,900	72.3	180.6	19,800	76.8	177.2	17,800	80
85	66.4	179.8	19,400	70.7	178.4	19,200	75.1	174.9	17,100	85
90	64.7	177.3	19,000	69.0	176.0	18,800	73.3	172.4	16,400	90
95	63.0	174.8	18,600	67.3	173.3	18,400	71.6	169.7	15,800	95
100	61.3	172.0	18,300	65.5	170.5	18,000	69.8	166.9	15,200	100
105	59.6	169.0	17,900	63.8	167.5	17,500	68.0	163.8	14,700	105
110	57.8	165.8	17,600	62.0	164.3	17,200	66.2	160.5	14,100	110
115	56.0	162.4	17,300	60.1	160.8	16,800	64.3	156.9	13,700	115
120	54.1	158.7	17,000	58.2	157.1	16,500	62.3	153.1	13,200	120
125	52.2	154.8	16,600	56.3	153.2	16,100	60.4	149.0	12,800	125
130	50.2	150.6	16,400	54.3	148.9	15,800	58.3	144.7	12,400	130
135	48.2	146.1	16,000	52.3	144.4	15,400	56.2	139.9	12,100	135
140	46.1	141.2	15,600	50.1	139.4	14,900	54.0	134.9	11,700	140
145	43.9	136.0	15,300	47.9	134.1	14,400	51.7	129.4	11,400	145
150	41.6	130.3	15,000	45.6	128.4	14,000	49.3	123.4	11,100	150
155	39.3	124.2	14,700	43.2	122.2	13,600	46.8	116.9	10,800	155
160	36.7	117.5	14,400	40.7	115.3	13,200	44.1	109.7	10,600	160
165	34.1	110.1	14,100	37.9	107.8	12,800	41.2	101.7	10,400	165
170	31.2	101.9	13,600	34.9	99.4	12,500	38.0	92.7	10,200	170
175	28.0	92.6	12,900	31.7	89.8	12,200	34.4	82.3	10,000	175
179	25.2	84.2	12,400	27.8	80.9	11,900	30.8	72.3	9,900	179
180				28.0	78.6	11,900	30.3	69.8	9,900	180
183				25.4	70.8	11,700	27.0	60.4	9,800	183
184							26.2	57.3	9,800	184

MLC150-1 S-2

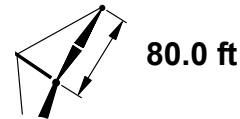
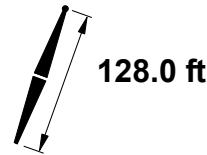
ASME B30.5



	5°			15°			25°			
	ft	o	ft	lb	ft	lb	ft	lb	ft	
48	78.8	202.6	22,600							48
50	78.2	202.1	22,500							50
55	76.7	200.9	22,100							55
60	75.3	199.5	21,600							60
62	74.2	198.9	21,400	78.8	197.6	21,600				62
65	73.8	198.0	21,200	77.9	196.7	21,300				65
70	72.3	196.4	20,700	76.3	195.0	20,800				70
75	70.7	194.6	20,300	74.8	193.2	20,400				75
76	69.8	194.2	20,200	73.8	192.8	20,300	78.7	189.3	18,600	76
80	69.2	192.6	19,900	73.3	191.3	19,900	77.5	187.7	18,200	80
85	67.6	190.5	19,500	71.7	189.1	19,500	75.9	185.5	17,400	85
90	66.1	188.3	19,100	70.1	186.9	19,100	74.3	183.2	16,700	90
95	64.5	185.8	18,700	68.5	184.4	18,600	72.6	180.7	16,100	95
100	62.9	183.2	18,300	66.9	181.8	18,200	71.0	178.0	15,600	100
105	61.2	180.5	17,900	65.2	179.0	17,900	69.3	175.2	15,000	105
110	59.6	177.5	17,700	63.6	176.0	17,500	67.6	172.1	14,500	110
115	57.9	174.3	17,300	61.8	172.7	17,100	65.8	168.8	14,000	115
120	56.1	170.9	17,000	60.1	169.3	16,800	64.0	165.3	13,600	120
125	54.4	167.3	16,700	58.3	165.6	16,500	62.2	161.5	13,200	125
130	52.6	163.4	16,500	56.5	161.7	16,100	60.3	157.5	12,800	130
135	50.7	159.3	16,100	54.6	157.6	15,800	58.4	153.2	12,400	135
140	48.8	154.8	15,900	52.7	153.1	15,500	56.4	148.6	12,100	140
145	46.8	150.1	15,700	50.7	148.3	15,100	54.3	143.6	11,800	145
150	44.8	145.0	15,400	48.6	143.2	14,600	52.2	138.3	11,500	150
155	42.7	139.6	15,100	46.5	137.6	14,200	50.0	132.6	11,200	155
160	40.5	133.7	14,600	44.2	131.7	13,800	47.6	126.3	10,900	160
165	38.1	127.3	13,900	41.9	125.2	13,300	45.2	119.5	10,700	165
170	35.7	120.4	13,200	39.4	118.1	13,000	42.5	112.1	10,500	170
175	33.1	112.7	12,500	36.7	110.3	12,700	39.7	103.8	10,300	175
180	30.3	104.2	11,900	33.8	101.5	12,100	36.6	94.4	10,100	180
185	27.2	94.6	11,300	30.6	91.6	11,500	33.1	83.6	10,000	185
188	25.1	88.1	10,900	27.6	84.7	11,100	30.0	75.8	9,900	188
190				27.0	80.0	10,900	29.0	70.5	9,900	190
192				25.3	74.7	10,600	26.7	64.2	9,800	192
193							26.1	61.0	9,800	193



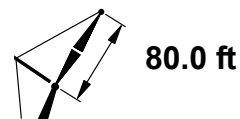
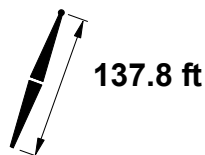
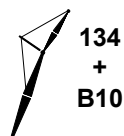
110,500 lb
+
35,000 lb

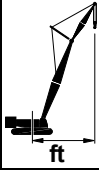
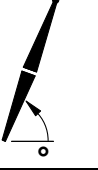
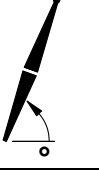
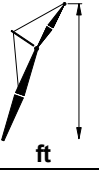
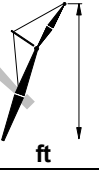


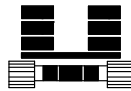
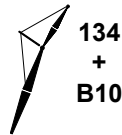
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
50	78.8	212.2	22,400							50
55	77.4	211.0	22,000							55
60	76.0	209.7	21,600							60
64	74.2	208.6	21,200	78.7	207.2	21,500				64
65	74.5	208.3	21,100	78.5	206.9	21,400				65
70	73.1	206.8	20,700	77.0	205.4	21,000				70
75	71.7	205.1	20,300	75.6	203.7	20,500				75
78	70.4	204.0	20,100	74.4	202.5	20,300	78.7	198.9	18,500	78
80	70.2	203.2	19,900	74.1	201.8	20,100	78.1	198.2	18,400	80
85	68.8	201.2	19,500	72.6	199.8	19,700	76.6	196.1	17,800	85
90	67.3	199.1	19,100	71.1	197.6	19,300	75.1	193.9	17,100	90
95	65.8	196.8	18,700	69.6	195.3	18,900	73.5	191.6	16,500	95
100	64.3	194.3	18,300	68.1	192.9	18,500	72.0	189.0	15,900	100
105	62.7	191.7	18,200	66.5	190.2	18,100	70.4	186.3	15,400	105
110	61.1	188.9	17,600	65.0	187.4	17,800	68.8	183.5	14,900	110
115	59.6	185.9	17,400	63.4	184.4	17,400	67.2	180.4	14,400	115
120	57.9	182.8	17,000	61.7	181.2	17,000	65.5	177.1	14,000	120
125	56.3	179.4	16,800	60.1	177.8	16,700	63.8	173.6	13,500	125
130	54.6	175.8	16,400	58.4	174.2	16,400	62.0	169.9	13,200	130
135	52.9	172.0	16,200	56.6	170.3	16,100	60.3	165.9	12,800	135
140	51.1	167.9	15,900	54.9	166.2	15,800	58.4	161.7	12,400	140
145	49.3	163.6	15,800	53.0	161.8	15,600	56.6	157.2	12,100	145
150	47.5	159.0	15,500	51.2	157.1	15,200	54.6	152.4	11,800	150
155	45.6	154.0	15,000	49.2	152.1	14,700	52.6	147.2	11,500	155
160	43.6	148.7	14,200	47.2	146.8	14,300	50.5	141.7	11,300	160
165	41.5	143.1	13,500	45.1	141.0	13,900	48.4	135.7	11,000	165
170	39.4	137.0	12,800	42.9	134.8	13,100	46.1	129.2	10,800	170
175	37.1	130.3	12,100	40.6	128.1	12,400	43.7	122.1	10,600	175
180	34.7	123.1	11,500	38.2	120.7	11,800	41.1	114.4	10,400	180
185	32.2	115.2	10,900	35.6	112.6	11,200	38.3	105.8	10,200	185
190	29.4	106.4	10,300	32.7	103.6	10,600	35.3	96.0	10,000	190
195	26.4	96.5	9,800	29.6	93.3	10,000	31.8	84.8	9,900	195
197	25.1	92.1	9,600	27.8	88.5	9,800	29.4	79.4	9,800	197
200				26.0	81.4	9,500	27.8	71.2	9,500	200
201				25.3	78.7	9,400	26.0	68.0	9,400	201
202							25.9	64.8	9,300	202

MLC150-1 S-2

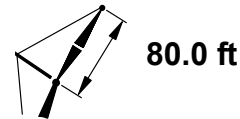
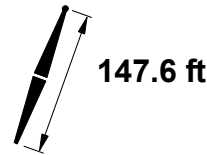
ASME B30.5



	5°			15°			25°			
										
	ft	o	ft	lb	ft	lb	ft	lb	ft	ft
52	78.7	221.8	22,100							52
55	77.9	221.2	21,900							55
60	76.6	219.9	21,500							60
65	75.3	218.6	21,100	79.0	217.2	21,300				65
70	73.9	217.1	20,700	77.6	215.7	21,000				70
75	72.5	215.5	20,200	76.2	214.0	20,600				75
79	71.2	214.1	19,900	74.4	212.6	20,300	79.0	208.9	18,500	79
80	71.1	213.7	19,900	74.9	212.3	20,200	78.7	208.6	18,500	80
85	69.8	211.8	19,500	73.5	210.4	19,800	77.3	206.6	18,100	85
90	68.4	209.8	19,100	72.0	208.3	19,500	75.8	204.6	17,400	90
95	66.9	207.6	18,700	70.6	206.1	19,100	74.4	202.3	16,800	95
100	65.5	205.3	18,400	69.2	203.8	18,700	72.9	199.9	16,200	100
105	64.0	202.8	18,000	67.7	201.3	18,400	71.4	197.4	15,700	105
110	62.6	200.2	17,700	66.2	198.7	18,000	69.9	194.7	15,200	110
115	61.1	197.4	17,300	64.7	195.8	17,600	68.3	191.8	14,800	115
120	59.6	194.4	17,100	63.2	192.8	17,300	66.8	188.7	14,300	120
125	58.0	191.3	16,800	61.6	189.6	17,000	65.2	185.5	13,900	125
130	56.4	187.9	16,400	60.0	186.2	16,700	63.6	182.0	13,500	130
135	54.8	184.3	16,300	58.4	182.7	16,400	61.9	178.3	13,100	135
140	53.2	180.6	15,900	56.8	178.8	16,100	60.2	174.4	12,800	140
145	51.5	176.6	15,700	55.1	174.8	15,800	58.5	170.2	12,400	145
150	49.8	172.3	15,500	53.4	170.5	15,600	56.7	165.8	12,100	150
155	48.1	167.8	14,600	51.6	165.9	15,100	54.9	161.1	11,800	155
160	46.3	163.0	13,800	49.7	161.0	14,300	53.0	156.1	11,600	160
165	44.4	157.8	13,100	47.9	155.8	13,500	51.0	150.7	11,300	165
170	42.5	152.3	12,400	45.9	150.3	12,800	49.0	144.9	11,100	170
175	40.5	146.4	11,700	43.9	144.3	12,100	46.9	138.7	10,900	175
180	38.4	140.1	11,100	41.7	137.8	11,400	44.6	132.0	10,600	180
185	36.1	133.3	10,500	39.5	130.9	10,800	42.3	124.6	10,500	185
190	33.8	125.8	9,900	37.1	123.3	10,200	39.8	116.6	10,300	190
195	31.3	117.6	9,400	34.5	114.9	9,700	37.0	107.7	9,900	195
200	28.6	108.6	8,900	31.8	105.6	9,100	34.0	97.6	9,300	200
205	25.6	98.3	8,400	28.7	95.0	8,600	30.7	86.0	8,700	205
210				25.2	82.6	8,100	26.7	71.9	8,200	210
211							25.8	68.6	8,100	211



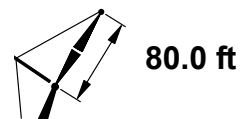
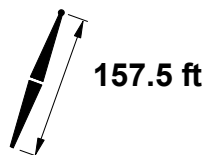
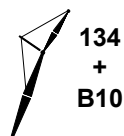
110,500 lb
+
35,000 lb



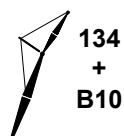
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
53	79.0	231.7	21,800							53
55	78.5	231.3	21,700							55
60	77.2	230.1	21,400							60
65	75.9	228.8	21,000							65
67	74.6	228.2	20,800	79.0	226.8	21,200				67
70	74.6	227.4	20,600	78.2	225.9	20,900				70
75	73.3	225.8	20,200	76.9	224.4	20,600				75
80	72.0	224.2	19,800	75.5	222.7	20,200				80
81	70.8	223.8	19,700	74.8	222.3	20,200	78.9	218.6	18,500	81
85	70.7	222.4	19,500	74.2	220.9	19,900	77.9	217.1	18,300	85
90	69.3	220.4	19,100	72.9	218.9	19,600	76.5	215.1	17,700	90
95	68.0	218.4	18,700	71.5	216.9	19,200	75.1	213.0	17,100	95
100	66.6	216.2	18,300	70.1	214.6	18,900	73.7	210.7	16,500	100
105	65.2	213.8	18,000	68.7	212.3	18,500	72.3	208.3	16,000	105
110	63.8	211.3	17,700	67.3	209.8	18,200	70.9	205.8	15,500	110
115	62.4	208.7	17,400	65.9	207.1	17,900	69.4	203.0	15,000	115
120	61.0	205.9	17,100	64.5	204.3	17,500	67.9	200.1	14,600	120
125	59.6	202.9	16,700	63.0	201.3	17,200	66.4	197.1	14,200	125
130	58.1	199.7	16,600	61.5	198.1	16,900	64.9	193.8	13,800	130
135	56.6	196.4	16,300	60.0	194.7	16,700	63.4	190.4	13,400	135
140	55.1	192.9	16,000	58.5	191.1	16,400	61.8	186.7	13,100	140
145	53.5	189.1	15,700	56.9	187.4	16,100	60.2	182.8	12,800	145
150	51.9	185.2	15,200	55.3	183.4	15,800	58.5	178.7	12,500	150
155	50.3	181.0	14,300	53.6	179.1	14,900	56.8	174.4	12,200	155
160	48.6	176.5	13,500	52.0	174.7	14,000	55.1	169.8	11,900	160
165	46.9	171.8	12,800	50.2	169.9	13,300	53.3	164.9	11,600	165
170	45.1	166.8	12,100	48.4	164.8	12,500	51.5	159.6	11,400	170
175	43.3	161.5	11,400	46.6	159.4	11,800	49.6	154.0	11,100	175
180	41.4	155.8	10,800	44.7	153.6	11,200	47.6	148.0	10,900	180
185	39.5	149.7	10,200	42.7	147.5	10,500	45.5	141.6	10,700	185
190	37.4	143.2	9,600	40.6	140.8	10,000	43.3	134.6	10,300	190
195	35.2	136.1	9,100	38.4	133.6	9,400	41.0	127.1	9,700	195
200	33.0	128.4	8,600	36.1	125.8	8,900	38.5	118.7	9,100	200
205	30.5	120.0	8,100	33.6	117.1	8,400	35.9	109.5	8,500	205
210	27.9	110.6	7,700	30.8	107.5	7,900	32.9	99.1	8,000	210
214	25.6	102.3	7,300	27.6	98.8	7,500	29.6	89.5	7,600	214
215				27.8	96.6	7,400	29.6	87.1	7,500	215
219				25.1	86.5	7,000	25.8	75.4	7,100	219
220							25.7	72.5	7,000	220

MLC150-1 S-2

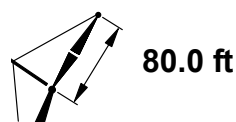
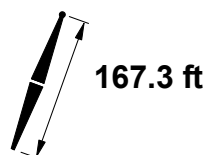
ASME B30.5



	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
55	79.0	241.3	21,500							55
60	77.7	240.2	21,200							60
65	76.5	239.0	20,900							65
69	75.2	237.9	20,600	78.9	236.4	20,900				69
70	75.3	237.6	20,500	78.7	236.1	20,900				70
75	74.0	236.1	20,100	77.4	234.6	20,600				75
80	72.8	234.6	19,700	76.2	233.0	20,200				80
83	71.4	233.5	19,500	74.8	232.0	20,000	78.9	228.2	18,400	83
85	71.5	232.8	19,400	74.9	231.3	19,900	78.4	227.5	18,300	85
90	70.2	231.0	19,000	73.6	229.5	19,600	77.1	225.6	18,000	90
95	68.9	229.0	18,700	72.3	227.5	19,300	75.8	223.6	17,400	95
100	67.6	226.9	18,300	71.0	225.4	19,000	74.4	221.4	16,800	100
105	66.3	224.7	18,000	69.7	223.1	18,700	73.1	219.1	16,300	105
110	65.0	222.3	17,700	68.4	220.8	18,400	71.7	216.7	15,800	110
115	63.7	219.8	17,300	67.0	218.2	18,000	70.4	214.1	15,300	115
120	62.3	217.2	17,100	65.6	215.5	17,700	69.0	211.4	14,900	120
125	60.9	214.4	16,700	64.3	212.7	17,400	67.6	208.5	14,500	125
130	59.6	211.4	16,600	62.9	209.7	17,100	66.1	205.4	14,100	130
135	58.1	208.2	16,200	61.4	206.5	16,900	64.7	202.2	13,800	135
140	56.7	204.9	16,000	60.0	203.2	16,600	63.2	198.7	13,400	140
145	55.2	201.4	15,700	58.5	199.6	16,400	61.7	195.1	13,100	145
150	53.8	197.7	14,800	57.0	195.9	15,400	60.2	191.3	12,800	150
155	52.2	193.8	13,900	55.5	192.0	14,500	58.6	187.3	12,500	155
160	50.7	189.7	13,100	53.9	187.8	13,700	57.0	183.0	12,200	160
165	49.1	185.3	12,400	52.3	183.4	12,900	55.3	178.4	11,900	165
170	47.5	180.7	11,700	50.7	178.7	12,200	53.6	173.6	11,700	170
175	45.8	175.8	11,000	49.0	173.8	11,500	51.9	168.5	11,400	175
180	44.1	170.6	10,400	47.2	168.5	10,800	50.1	163.1	11,200	180
185	42.3	165.1	9,800	45.4	162.9	10,200	48.2	157.3	10,600	185
190	40.4	159.2	9,200	43.5	156.9	9,600	46.3	151.1	10,000	190
195	38.5	152.9	8,700	41.6	150.5	9,000	44.2	144.4	9,400	195
200	36.5	146.1	8,200	39.6	143.7	8,500	42.1	137.2	8,800	200
205	34.4	138.8	7,700	37.4	136.2	8,000	39.8	129.4	8,300	205
210	32.2	130.9	7,300	35.1	128.1	7,500	37.4	120.8	7,700	210
215	29.8	122.3	6,800	32.7	119.3	7,100	34.8	111.3	7,200	215
220	27.2	112.6	6,400	30.0	109.4	6,600	31.9	100.6	6,700	220
223	25.5	106.3	6,200	27.8	102.6	6,300	29.2	93.1	6,500	223
225				27.0	98.1	6,200	28.6	88.1	6,300	225
228				25.1	90.5	5,900	25.8	79.3	6,000	228
229							25.6	76.3	5,900	229



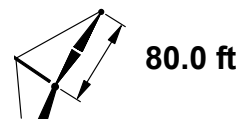
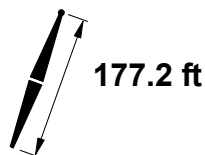
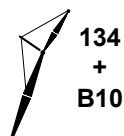
110,500 lb
+
35,000 lb

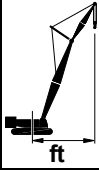
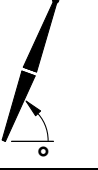
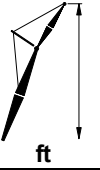
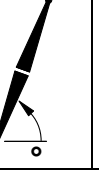
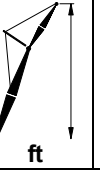


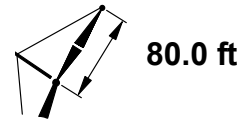
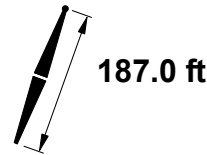
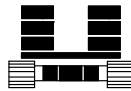
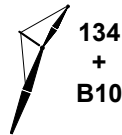
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
57	78.9	251.0	21,200							57
60	78.2	250.3	21,000							60
65	77.0	249.1	20,700							65
70	75.9	247.8	20,400							70
71	74.8	247.5	20,300	78.9	246.0	20,700				71
75	74.7	246.4	20,000	77.9	244.9	20,400				75
80	73.5	244.9	19,700	76.7	243.4	20,100				80
85	72.3	243.3	19,300	75.5	241.7	19,800	78.9	237.8	18,400	85
90	71.0	241.5	19,000	74.3	240.0	19,600	77.6	236.0	18,100	90
95	69.8	239.6	18,600	73.1	238.1	19,200	76.4	234.1	17,600	95
100	68.6	237.6	18,300	71.8	236.1	19,000	75.1	232.0	17,100	100
105	67.3	235.5	18,000	70.6	233.9	18,700	73.8	229.9	16,600	105
110	66.1	233.2	17,700	69.3	231.6	18,400	72.6	227.5	16,100	110
115	64.8	230.9	17,400	68.0	229.2	18,100	71.2	225.1	15,600	115
120	63.5	228.3	17,100	66.7	226.7	18,000	69.9	222.5	15,200	120
125	62.2	225.7	16,800	65.4	224.0	17,700	68.6	219.7	14,800	125
130	60.9	222.8	16,600	64.1	221.2	17,400	67.2	216.8	14,400	130
135	59.5	219.9	16,200	62.7	218.2	17,100	65.9	213.8	14,000	135
140	58.2	216.7	16,100	61.4	215.0	16,900	64.5	210.6	13,700	140
145	56.8	213.4	15,300	60.0	211.7	16,000	63.0	207.1	13,400	145
150	55.4	209.9	14,400	58.6	208.1	15,100	61.6	203.5	13,100	150
155	54.0	206.3	13,500	57.1	204.4	14,200	60.1	199.8	12,800	155
160	52.5	202.4	12,700	55.7	200.5	13,400	58.6	195.8	12,500	160
165	51.1	198.3	12,000	54.2	196.4	12,600	57.1	191.5	12,200	165
170	49.5	194.0	11,300	52.6	192.1	11,800	55.5	187.1	11,900	170
175	48.0	189.5	10,600	51.1	187.5	11,100	53.9	182.4	11,600	175
180	46.4	184.7	10,000	49.4	182.7	10,500	52.2	177.4	10,900	180
185	44.8	179.6	9,400	47.8	177.5	9,900	50.5	172.1	10,300	185
190	43.1	174.3	8,800	46.1	172.1	9,300	48.8	166.5	9,700	190
195	41.3	168.6	8,300	44.3	166.3	8,700	46.9	160.5	9,100	195
200	39.5	162.5	7,800	42.5	160.1	8,200	45.0	154.0	8,500	200
205	37.7	156.0	7,300	40.6	153.5	7,700	43.0	147.2	8,000	205
210	35.7	149.0	6,900	38.6	146.5	7,200	40.9	139.7	7,500	210
215	33.6	141.5	6,400	36.5	138.8	6,700	38.7	131.7	7,000	215
220	31.4	133.4	6,000	34.2	130.5	6,300	36.3	122.8	6,500	220
225	29.1	124.4	5,600	31.8	121.3	5,900	33.8	113.0	6,000	225
230	26.5	114.6	5,300	29.2	111.1	5,500	30.9	102.0	5,600	230
232	25.4	110.3	5,100	27.8	106.5	5,300	28.8	96.8	5,400	232
235				26.3	99.6	5,100	27.7	89.1	5,100	235
236				25.6	97.0	5,000	26.3	86.1	5,100	236
238							25.5	80.2	4,900	238

MLC150-1 S-2

ASME B30.5



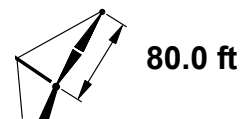
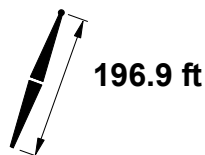
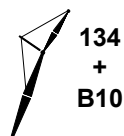
	5°			15°			25°			
 ft	 °	 ft	 lb	 °	 ft	 lb	 °	 ft	 lb	 ft
59	78.9	260.6	20,800							59
60	78.7	260.4	20,800							60
65	77.5	259.2	20,500							65
70	76.4	258.0	20,200							70
73	75.4	257.2	20,000	78.9	255.7	20,400				73
75	75.3	256.6	19,900	78.4	255.1	20,300				75
80	74.1	255.2	19,600	77.3	253.6	20,000				80
85	73.0	253.6	19,200	76.1	252.1	19,700				85
87	71.6	252.9	19,100	75.2	251.4	19,600	78.9	247.4	18,400	87
90	71.8	251.9	18,900	74.9	250.4	19,500	78.2	246.4	18,200	90
95	70.6	250.1	18,600	73.7	248.6	19,200	77.0	244.5	17,900	95
100	69.4	248.2	18,200	72.5	246.6	18,900	75.7	242.6	17,300	100
105	68.2	246.2	17,900	71.3	244.6	18,600	74.5	240.5	16,800	105
110	67.0	244.1	17,600	70.1	242.4	18,400	73.3	238.3	16,400	110
115	65.8	241.8	17,400	68.9	240.1	18,100	72.0	236.0	15,900	115
120	64.6	239.4	17,100	67.7	237.7	18,000	70.8	233.5	15,500	120
125	63.4	236.8	16,700	66.4	235.1	17,600	69.5	230.9	15,100	125
130	62.1	234.1	16,600	65.2	232.4	17,400	68.2	228.1	14,700	130
135	60.8	231.3	16,200	63.9	229.6	17,200	66.9	225.2	14,300	135
140	59.5	228.3	15,900	62.6	226.6	16,700	65.6	222.2	14,000	140
145	58.2	225.2	14,900	61.3	223.4	15,700	64.3	218.9	13,700	145
150	56.9	221.9	14,000	59.9	220.1	14,700	62.9	215.5	13,300	150
155	55.6	218.5	13,100	58.6	216.6	13,800	61.5	212.0	13,000	155
160	54.2	214.8	12,300	57.2	213.0	13,000	60.1	208.2	12,700	160
165	52.8	211.0	11,600	55.8	209.1	12,200	58.7	204.3	12,500	165
170	51.4	207.0	10,900	54.4	205.0	11,500	57.2	200.1	12,100	170
175	50.0	202.7	10,200	52.9	200.8	10,800	55.7	195.7	11,300	175
180	48.5	198.3	9,600	51.4	196.3	10,100	54.2	191.1	10,600	180
185	47.0	193.6	9,000	49.9	191.5	9,500	52.6	186.2	10,000	185
190	45.4	188.6	8,400	48.3	186.5	8,900	51.0	181.0	9,400	190
195	43.8	183.4	7,900	46.7	181.2	8,400	49.3	175.5	8,800	195
200	42.1	177.8	7,400	45.0	175.6	7,800	47.6	169.7	8,200	200
205	40.4	171.9	6,900	43.3	169.6	7,300	45.8	163.5	7,700	205
210	38.7	165.7	6,500	41.5	163.2	6,800	43.9	156.9	7,200	210
215	36.8	159.0	6,000	39.6	156.5	6,400	41.9	149.8	6,700	215
220	34.9	151.8	5,600	37.7	149.2	5,900	39.9	142.2	6,200	220
225	32.9	144.1	5,200	35.6	141.3	5,500	37.7	133.9	5,700	225
230	30.7	135.7	4,900	33.4	132.7	5,100	35.3	124.8	5,300	230
235	28.4	126.6	4,500	31.0	123.3	4,700	32.8	114.7	4,900	235
240	25.9	116.4	4,100	28.4	112.9	4,300	30.0	103.3	4,400	240
241	25.4	114.2	4,000	27.4	110.5	4,200	28.4	100.7	4,400	241
245				25.6	101.0	3,900	26.8	90.1	4,000	245
247							25.4	84.0	3,800	247



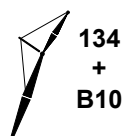
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
61	78.9	270.2	20,500							61
65	78.0	269.3	20,300							65
70	76.9	268.2	20,000							70
75	75.8	266.9	19,700	78.9	265.3	20,200				75
80	74.7	265.5	19,400	77.7	263.9	20,000				80
85	73.6	264.0	19,100	76.6	262.4	19,700				85
89	72.2	262.7	18,900	75.2	261.1	19,500	78.8	257.0	18,300	89
90	72.5	262.3	18,800	75.5	260.8	19,400	78.6	256.7	18,200	90
95	71.4	260.6	18,500	74.4	259.0	19,100	77.5	254.9	18,000	95
100	70.2	258.8	18,200	73.2	257.2	18,800	76.3	253.1	17,500	100
105	69.1	256.8	17,900	72.1	255.2	18,600	75.1	251.1	17,100	105
110	67.9	254.8	17,600	70.9	253.1	18,400	74.0	249.0	16,600	110
115	66.8	252.6	17,300	69.7	251.0	18,100	72.8	246.7	16,200	115
120	65.6	250.3	17,100	68.6	248.6	17,800	71.6	244.4	15,700	120
125	64.4	247.9	16,800	67.4	246.2	17,600	70.4	241.9	15,300	125
130	63.2	245.3	16,500	66.2	243.6	17,400	69.1	239.3	14,900	130
135	62.0	242.6	16,200	65.0	240.9	17,200	67.9	236.5	14,600	135
140	60.8	239.8	15,600	63.7	238.0	16,500	66.6	233.6	14,200	140
145	59.5	236.8	14,600	62.5	235.1	15,400	65.4	230.5	13,900	145
150	58.3	233.7	13,700	61.2	231.9	14,500	64.1	227.3	13,600	150
155	57.0	230.4	12,800	59.9	228.6	13,600	62.8	223.9	13,300	155
160	55.7	227.0	12,000	58.6	225.1	12,700	61.4	220.4	13,000	160
165	54.4	223.4	11,300	57.3	221.5	11,900	60.1	216.7	12,600	165
170	53.1	219.6	10,600	56.0	217.7	11,200	58.7	212.8	11,800	170
175	51.7	215.6	9,900	54.6	213.6	10,500	57.3	208.7	11,100	175
180	50.3	211.4	9,300	53.2	209.4	9,800	55.9	204.3	10,400	180
185	48.9	207.0	8,700	51.7	205.0	9,200	54.4	199.8	9,700	185
190	47.5	202.4	8,100	50.3	200.3	8,600	52.9	195.0	9,100	190
195	46.0	197.5	7,600	48.8	195.4	8,100	51.3	189.9	8,500	195
200	44.5	192.4	7,100	47.2	190.2	7,500	49.7	184.6	7,900	200
205	42.9	187.0	6,600	45.7	184.8	7,000	48.1	178.9	7,400	205
210	41.3	181.3	6,200	44.0	179.0	6,500	46.4	172.9	6,900	210
215	39.6	175.2	5,700	42.3	172.8	6,100	44.6	166.6	6,400	215
220	37.9	168.8	5,300	40.6	166.3	5,600	42.8	159.7	5,900	220
225	36.1	161.9	4,900	38.7	159.3	5,200	40.9	152.5	5,500	225
230	34.2	154.6	4,500	36.8	151.8	4,800	38.9	144.6	5,100	230
235	32.2	146.6	4,000	34.8	143.7	4,400	36.7	136.1	4,600	235
240	30.0	138.0	3,600	32.6	134.9	3,900	34.4	126.7	4,200	240
245	27.8	128.6	3,200	30.3	125.3	3,500	31.9	116.3	3,700	245
250				27.7	114.5	3,100	29.1	104.6	3,200	250

MLC150-1 S-2

ASME B30.5



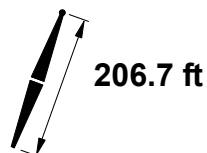
	5°			15°			25°			
	ft	o	ft	lb	ft	o	ft	lb	ft	
63	78.9	279.9	20,100							63
65	78.4	279.4	20,000							65
70	77.4	278.3	19,800							70
75	76.3	277.0	19,500							75
77	75.6	276.5	19,400	78.8	274.9	20,000				77
80	75.3	275.7	19,300	78.2	274.1	19,800				80
85	74.2	274.2	19,000	77.1	272.6	19,500				85
90	73.1	272.7	18,700	76.0	271.1	19,300				90
91	72.8	272.4	18,600	75.6	270.7	19,200	78.8	266.7	18,200	91
95	72.0	271.0	18,400	74.9	269.4	19,000	77.9	265.3	18,000	95
100	70.9	269.3	18,100	73.9	267.7	18,700	76.8	263.5	17,800	100
105	69.9	267.4	17,800	72.8	265.8	18,500	75.7	261.6	17,300	105
110	68.7	265.4	17,500	71.6	263.8	18,300	74.6	259.6	16,800	110
115	67.6	263.3	17,200	70.5	261.7	18,000	73.4	257.4	16,400	115
120	66.5	261.1	16,900	69.4	259.5	17,900	72.3	255.2	16,000	120
125	65.4	258.8	16,700	68.2	257.1	17,600	71.1	252.8	15,600	125
130	64.2	256.4	16,500	67.1	254.7	17,400	70.0	250.3	15,200	130
135	63.1	253.8	16,100	65.9	252.1	17,200	68.8	247.7	14,800	135
140	61.9	251.1	15,200	64.8	249.4	16,100	67.6	244.9	14,500	140
145	60.7	248.3	14,200	63.6	246.5	15,100	66.4	242.0	14,200	145
150	59.5	245.3	13,300	62.4	243.5	14,100	65.1	238.9	13,800	150
155	58.3	242.2	12,400	61.1	240.4	13,200	63.9	235.7	13,600	155
160	57.1	238.9	11,600	59.9	237.1	12,400	62.6	232.4	13,100	160
165	55.9	235.5	10,900	58.7	233.6	11,600	61.4	228.8	12,300	165
170	54.6	231.9	10,200	57.4	230.0	10,800	60.0	225.1	11,500	170
175	53.3	228.1	9,500	56.1	226.2	10,100	58.7	221.3	10,800	175
180	52.0	224.2	8,900	54.8	222.2	9,500	57.4	217.2	10,100	180
185	50.7	220.1	8,300	53.4	218.1	8,900	56.0	212.9	9,400	185
190	49.3	215.7	7,700	52.1	213.7	8,300	54.6	208.5	8,800	190
195	47.9	211.2	7,200	50.7	209.1	7,700	53.2	203.7	8,200	195
200	46.5	206.4	6,700	49.2	204.3	7,200	51.7	198.8	7,600	200
205	45.1	201.4	6,200	47.7	199.2	6,700	50.2	193.6	7,100	205
210	43.6	196.1	5,800	46.2	193.9	6,200	48.6	188.1	6,600	210
215	42.0	190.6	5,300	44.7	188.2	5,700	47.0	182.2	6,100	215
220	40.4	184.7	4,800	43.1	182.3	5,300	45.3	176.0	5,600	220
225	38.8	178.5	4,400	41.4	176.0	4,800	43.6	169.5	5,200	225
230	37.1	171.8	3,900	39.7	169.2	4,300	41.8	162.5	4,700	230
235	35.3	164.8	3,500	37.9	162.1	3,900	39.9	155.0	4,200	235
240	33.5	157.2	3,100	36.0	154.4	3,400	37.9	146.9	3,700	240
245				34.0	146.1	3,000	35.8	138.1	3,300	245



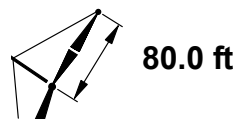
110,500 lb
+
35,000 lb



360°



206.7 ft

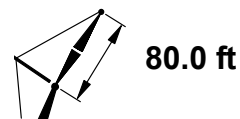
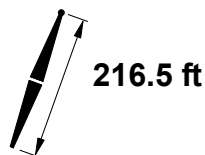
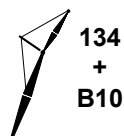


80.0 ft

	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
65	78.8	289.5	19,700							65
70	77.8	288.4	19,500							70
75	76.8	287.2	19,300							75
79	75.2	286.2	19,100	78.8	284.6	19,600				79
80	75.8	285.9	19,000	78.6	284.3	19,600				80
85	74.7	284.5	18,800	77.6	282.9	19,400				85
90	73.7	283.0	18,500	76.5	281.4	19,200				90
93	72.4	282.0	18,300	75.4	280.4	19,000	78.8	276.3	18,000	93
95	72.7	281.4	18,200	75.5	279.8	18,900	78.4	275.6	18,000	95
100	71.6	279.7	17,900	74.4	278.1	18,600	77.3	273.9	17,800	100
105	70.6	277.9	17,700	73.4	276.3	18,400	76.2	272.1	17,600	105
110	69.5	276.0	17,400	72.3	274.4	18,200	75.1	270.1	17,000	110
115	68.4	274.0	17,200	71.2	272.3	17,900	74.1	268.1	16,600	115
120	67.4	271.9	16,900	70.1	270.2	17,700	73.0	265.9	16,200	120
125	66.3	269.7	16,600	69.1	268.0	17,500	71.8	263.6	15,800	125
130	65.2	267.3	16,400	67.9	265.6	17,300	70.7	261.2	15,500	130
135	64.1	264.9	15,900	66.8	263.1	16,900	69.6	258.7	15,100	135
140	63.0	262.3	14,800	65.7	260.5	15,800	68.4	256.1	14,700	140
145	61.8	259.6	13,800	64.6	257.8	14,800	67.3	253.3	14,400	145
150	60.7	256.7	12,900	63.4	255.0	13,800	66.1	250.4	14,100	150
155	59.5	253.8	12,000	62.3	252.0	12,900	64.9	247.3	13,700	155
160	58.4	250.7	11,200	61.1	248.8	12,000	63.7	244.1	12,800	160
165	57.2	247.4	10,500	59.9	245.5	11,200	62.5	240.8	12,000	165
170	56.0	244.0	9,800	58.7	242.1	10,500	61.3	237.3	11,200	170
175	54.8	240.4	9,100	57.5	238.5	9,800	60.0	233.6	10,500	175
180	53.5	236.7	8,500	56.2	234.8	9,100	58.8	229.8	9,800	180
185	52.3	232.8	7,900	54.9	230.8	8,500	57.5	225.7	9,100	185
190	51.0	228.7	7,300	53.7	226.7	7,900	56.1	221.5	8,500	190
195	49.7	224.5	6,800	52.3	222.4	7,400	54.8	217.1	7,900	195
200	48.4	220.0	6,300	51.0	217.9	6,800	53.4	212.5	7,300	200
205	47.0	215.3	5,800	49.6	213.1	6,300	52.0	207.6	6,800	205
210	45.6	210.4	5,300	48.2	208.2	5,800	50.5	202.5	6,300	210
215	44.2	205.2	4,800	46.8	202.9	5,400	49.1	197.1	5,800	215
220	42.7	199.8	4,300	45.3	197.4	4,800	47.5	191.4	5,300	220
225	41.2	194.0	3,800	43.8	191.6	4,300	46.0	185.4	4,800	225
230	39.6	188.0	3,400	42.2	185.5	3,900	44.3	179.1	4,300	230
235	38.0	181.6	3,000	40.5	179.0	3,400	42.6	172.3	3,800	235
240				38.8	172.1	3,000	40.8	165.2	3,300	240

MLC150-1 S-2

ASME B30.5



	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
67	78.8	299.1	19,300							67
70	78.2	298.5	19,200							70
75	77.2	297.3	19,000							75
80	76.3	296.1	18,800	79.0	294.5	19,400				80
85	75.3	294.7	18,500	78.0	293.1	19,100				85
90	74.3	293.3	18,300	77.0	291.7	18,900				90
94	73.2	292.1	18,100	75.2	290.4	18,700	79.0	286.2	17,900	94
95	73.3	291.8	18,000	76.0	290.1	18,700	78.8	285.9	17,900	95
100	72.3	290.1	17,800	75.0	288.5	18,500	77.8	284.3	17,800	100
105	71.2	288.4	17,500	74.0	286.7	18,200	76.7	282.5	17,600	105
110	70.2	286.6	17,300	72.9	284.9	18,000	75.7	280.6	17,300	110
115	69.2	284.6	17,000	71.9	283.0	17,800	74.6	278.6	16,800	115
120	68.2	282.6	16,700	70.8	280.9	17,600	73.6	276.6	16,400	120
125	67.1	280.5	16,500	69.8	278.8	17,400	72.5	274.4	16,100	125
130	66.1	278.2	16,200	68.7	276.5	17,200	71.4	272.1	15,700	130
135	65.0	275.8	15,500	67.7	274.1	16,600	70.3	269.7	15,300	135
140	63.9	273.4	14,400	66.6	271.6	15,500	69.2	267.1	15,000	140
145	62.8	270.8	13,400	65.5	269.0	14,400	68.1	264.5	14,700	145
150	61.8	268.1	12,500	64.4	266.3	13,400	67.0	261.7	14,300	150
155	60.7	265.2	11,700	63.3	263.4	12,500	65.9	258.8	13,400	155
160	59.5	262.2	10,800	62.2	260.4	11,700	64.7	255.7	12,500	160
165	58.4	259.1	10,100	61.0	257.3	10,900	63.6	252.5	11,700	165
170	57.3	255.9	9,400	59.9	254.0	10,100	62.4	249.2	10,900	170
175	56.1	252.5	8,700	58.7	250.6	9,400	61.2	245.7	10,200	175
180	54.9	249.0	8,100	57.5	247.0	8,800	60.0	242.1	9,500	180
185	53.7	245.3	7,500	56.3	243.3	8,200	58.8	238.3	8,800	185
190	52.5	241.4	6,900	55.1	239.4	7,600	57.5	234.3	8,200	190
195	51.3	237.4	6,400	53.9	235.3	7,000	56.3	230.1	7,600	195
200	50.0	233.2	5,800	52.6	231.1	6,500	55.0	225.8	7,000	200
205	48.8	228.7	5,300	51.3	226.6	6,000	53.6	221.2	6,500	205
210	47.5	224.1	4,700	50.0	222.0	5,400	52.3	216.4	6,000	210
215	46.1	219.3	4,200	48.6	217.1	4,800	50.9	211.4	5,400	215
220	44.8	214.2	3,700	47.3	212.0	4,300	49.5	206.1	4,900	220
225	43.4	208.9	3,300	45.8	206.6	3,800	48.0	200.6	4,300	225
230				44.4	200.9	3,300	46.5	194.7	3,800	230
235							45.0	188.6	3,300	235