

Liftcrane Jib Capacities

Jib No. 134 on
 Boom No. B10:76A
 114,600 lb Crane Counterweight
 0 lb Carbody Counterweight
 360 Degree Rating

MLC200 SERIES 1



LIFTING CAPACITIES: Chart supplements Boom Capacity chart **No. A001-A**. 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 with gantry up. Refer to Boom Rigging **No. 80149429**, Jib Rigging **No. 80117860**, Wire Rope Specifications chart **No. A025-A**, Counterweight Arrangements chart **No. A004-A**, and Wind Conditions chart **No. A026-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. A024-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 27 ft 2 in. crawlers, 48 in. treads, 10 ft 3 in. retractable gantry, 27 ft live mast, 20 part boom hoist reeving, and boom support straps.

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 3,000 lb.

Table 1

Over End or Side of Crawlers											
Boom Length (ft)	Maximum Number of Lower Boom Point Sheaves	Jib No. 134									
		30.0 ft	40.0 ft	50.0 ft	60.0 ft	70.0 ft	80.0 ft				
		Block Weight (lb)									
105.0	7	11,000	11,000	11,000	11,000	10,500	9,500				
114.8	7	11,000	11,000	11,000	9,900	8,800	7,900				
124.7	7	11,000	10,200	9,300	8,200	7,300	6,400				
134.5	7	9,100	8,300	7,400	6,600	5,800	5,000				
144.4	7	7,500	6,800	6,000	5,300	4,500	3,600				
154.2	7	5,300	4,500	3,700	#	#	#				
164.0	7	3,100	#	#	#	#	#				
173.9	7	#	#	#	#	#	#				
183.7	7	#	#	Raising Not Permitted							
193.6	7										
203.4	7										

Table 2

Over End of Blocked Crawlers							
Boom Length (ft)	Maximum Number of Lower Boom Point Sheaves	Jib No. 134					
		30.0 ft	40.0 ft	50.0 ft	60.0 ft	70.0 ft	80.0 ft
		Block Weight (lb)					
105.0	7	11,000	11,000	11,000	11,000	10,500	9,500
114.8	7	11,000	11,000	11,000	9,900	8,800	7,900
124.7	7	11,000	10,200	9,300	8,200	7,300	6,400
134.5	7	9,100	8,300	7,400	6,600	5,800	5,000
144.4	7	7,500	6,800	6,000	5,300	4,600	4,400
154.2	7	5,700	5,200	4,500	4,100	4,100	4,100
164.0	7	4,200	4,200	4,400	4,000	4,000	3,100
173.9	7	4,100	4,000	3,200	#	#	#
183.7	7	#	#	#	#	#	#
193.6	7	#	#	#	#	#	
203.4	7	#	#	Raising Not Permitted			
Warning: Crane must remain in-line with crawlers when raising over end of blocked crawlers until operating radius is within 360 degree chart. <i>Crane tipping or structural damage can occur.</i>							

Explanation of Symbols



134
+
B10

Jib No. 134
+
Boom No. B10:76A



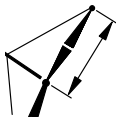
Crane Counterweight
+
Carbody Counterweight



360 Degree Rating



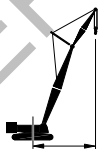
Boom Length



Jib Length



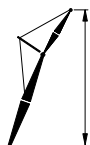
Jib Offset Angle



Operating Radius
(see page 1)



Boom Angle
(see page 1)



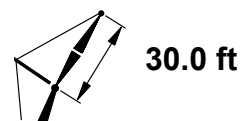
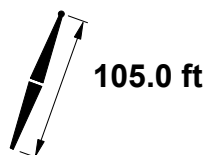
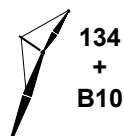
Jib Point Elevation
(see page 1)

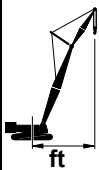
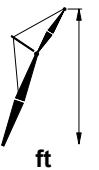
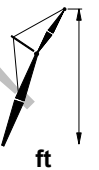


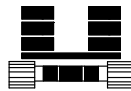
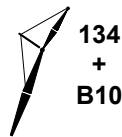
Lifting Capacities
(see page 1)

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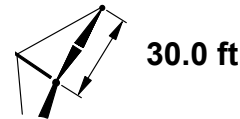
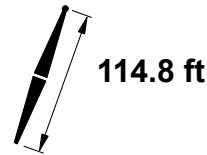
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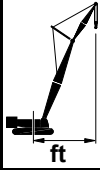
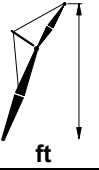
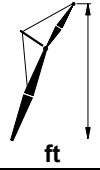
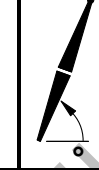
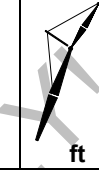


	5°			15°			25°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
29	80.8	140.8	63,000							29
30	80.4	140.6	63,000							30
34	78.7	139.8	63,000	80.9	139.0	60,700				34
35	78.2	139.6	63,000	80.5	138.8	60,400				35
39	76.5	138.6	63,000	78.7	137.8	59,500	81.0	136.1	50,900	39
40	76.0	138.3	63,000	78.3	137.5	59,300	80.5	135.8	50,300	40
45	73.8	136.9	62,200	76.0	136.1	58,200	78.3	134.3	47,800	45
50	71.6	135.2	60,900	73.8	134.4	57,200	76.0	132.6	45,500	50
55	69.3	133.3	59,600	71.5	132.5	56,200	73.7	130.7	43,500	55
60	67.0	131.2	57,400	69.2	130.4	55,400	71.3	128.5	41,600	60
65	64.7	128.9	51,100	66.8	128.0	52,000	68.9	126.1	40,000	65
70	62.3	126.2	45,800	64.4	125.4	46,600	66.5	123.5	38,500	70
75	59.8	123.4	41,300	61.9	122.5	42,100	64.0	120.5	37,100	75
80	57.3	120.2	37,500	59.4	119.3	38,200	61.4	117.2	35,900	80
85	54.7	116.7	34,200	56.8	115.7	34,800	58.7	113.6	34,800	85
90	52.0	112.8	31,300	54.1	111.8	31,800	55.9	109.6	32,300	90
95	49.2	108.5	28,700	51.3	107.5	29,200	53.1	105.3	29,600	95
100	46.3	103.8	26,400	48.3	102.8	26,800	50.0	100.4	27,200	100
105	43.3	98.6	24,300	45.2	97.5	24,700	46.9	94.9	25,000	105
110	40.0	92.8	22,400	41.9	91.6	22,800	43.4	88.8	23,000	110
112	38.6	90.1	21,800	40.5	88.9	22,100	42.0	86.2	22,300	112
115	36.5	86.2	20,700	38.3	84.9	21,000				115
120	32.6	78.6	19,200	34.4	77.2	19,400				120
124	29.2	71.5	18,000	30.9	70.0	18,200				124
125	28.3	69.7	17,800							125
130	23.2	58.8	16,400							130
132	20.8	53.6	15,900							132



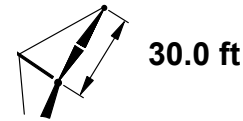
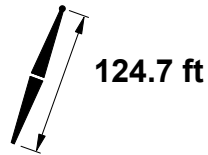
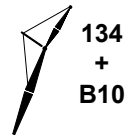
114,600 lb
+
0 lb

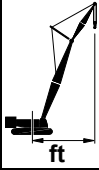
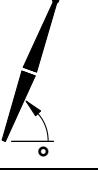
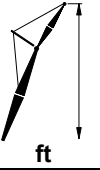
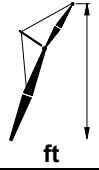
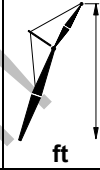


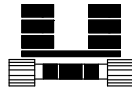
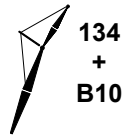
	5°			15°			25°			
										
	ft	o	ft	lb	ft	lb	ft	lb	ft	ft
31	80.7	150.4	63,000							31
35	79.0	149.6	63,000							35
36	78.6	149.4	63,000	80.7	148.6	60,300				36
40	77.0	148.5	63,000	79.1	147.7	59,400				40
41	76.6	148.2	62,900	78.7	147.4	59,200	80.8	145.7	50,600	41
45	75.0	147.1	62,700	77.0	146.3	58,400	79.1	144.6	48,700	45
50	72.9	145.6	61,400	75.0	144.8	57,500	77.0	143.0	46,500	50
55	70.8	143.9	60,200	72.8	143.1	56,600	74.9	141.2	44,500	55
60	68.7	141.9	56,900	70.7	141.1	55,800	72.7	139.2	42,700	60
65	66.5	139.8	50,600	68.5	138.9	51,600	70.5	137.0	41,100	65
70	64.3	137.4	45,400	66.3	136.5	46,300	68.3	134.6	39,600	70
75	62.1	134.7	40,900	64.1	133.9	41,700	66.0	131.9	38,200	75
80	59.8	131.8	37,100	61.8	130.9	37,800	63.6	128.9	37,000	80
85	57.5	128.7	33,700	59.4	127.7	34,400	61.2	125.7	35,000	85
90	55.1	125.2	30,800	57.0	124.3	31,400	58.8	122.1	31,900	90
95	52.6	121.4	28,200	54.5	120.4	28,800	56.2	118.2	29,200	95
100	50.0	117.2	25,900	51.9	116.2	26,400	53.6	113.9	26,800	100
105	47.3	112.7	23,800	49.2	111.6	24,300	50.8	109.2	24,700	105
110	44.5	107.7	22,000	46.4	106.6	22,400	47.9	104.0	22,700	110
115	41.6	102.1	20,300	43.4	101.0	20,600	44.8	98.3	20,900	115
119	39.0	97.2	19,000	40.8	95.9	19,400	42.2	93.2	19,600	119
120	38.4	96.0	18,700	40.2	94.7	19,000				120
125	35.0	89.0	17,300	36.7	87.6	17,600				125
130	31.3	81.1	16,000	32.9	79.5	16,200				130
133	28.8	75.5	15,300	30.4	74.0	15,400				133
135	27.1	71.7	14,800							135
140	22.2	60.3	13,700							140
142	19.9	54.8	13,200							142

MLC200 S-1

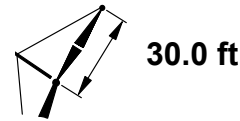
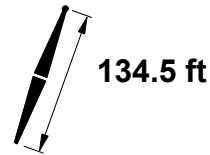
ASME B30.5



	5°			15°			25°			
 ft	 o	 ft	 lb	 o	 ft	 lb	 o	 ft	 lb	 ft
32	80.9	160.2	63,000							32
35	79.7	159.7	63,000							35
37	79.0	159.2	63,000	81.0	158.5	60,200				37
40	77.9	158.6	63,000	79.8	157.8	59,600				40
42	77.1	158.1	63,000	79.0	157.3	59,200	81.0	155.5	50,900	42
45	75.9	157.3	63,000	77.9	156.5	58,600	79.8	154.7	49,500	45
50	74.0	155.9	61,800	75.9	155.1	57,700	77.9	153.3	47,400	50
55	72.1	154.3	60,700	74.0	153.5	56,800	75.9	151.6	45,400	55
60	70.1	152.5	56,600	72.0	151.7	56,100	73.9	149.8	43,600	60
65	68.1	150.5	50,300	70.0	149.7	51,300	71.9	147.8	42,000	65
70	66.1	148.3	45,000	68.0	147.4	46,000	69.8	145.5	40,600	70
75	64.0	145.9	40,500	65.9	145.0	41,400	67.7	143.0	39,200	75
80	61.9	143.2	36,700	63.8	142.3	37,500	65.5	140.3	38,000	80
85	59.8	140.3	33,400	61.6	139.4	34,100	63.4	137.4	34,700	85
90	57.6	137.2	30,400	59.4	136.2	31,100	61.1	134.1	31,700	90
95	55.3	133.7	27,900	57.2	132.8	28,400	58.8	130.6	29,000	95
100	53.0	130.0	25,600	54.8	129.0	26,100	56.4	126.8	26,600	100
105	50.6	125.9	23,500	52.4	124.9	24,000	54.0	122.6	24,400	105
110	48.2	121.5	21,600	49.9	120.4	22,100	51.4	118.0	22,400	110
115	45.6	116.7	19,900	47.3	115.6	20,300	48.8	113.1	20,600	115
120	42.9	111.4	18,400	44.6	110.2	18,700	46.0	107.6	19,000	120
125	40.0	105.5	17,000	41.7	104.3	17,300	43.0	101.5	17,500	125
127	38.8	102.9	16,500	40.5	101.6	16,700	41.8	98.8	17,000	127
130	37.0	99.0	15,700	38.6	97.7	15,900				130
135	33.7	91.7	14,500	35.3	90.3	14,700				135
140	30.1	83.4	13,400	31.6	81.8	13,500				140
141	29.3	81.4	13,100	30.8	79.9	13,300				141
145	26.1	73.6	12,300							145
150	21.3	61.7	11,300							150
151	20.2	58.9	11,100							151



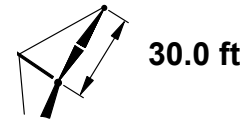
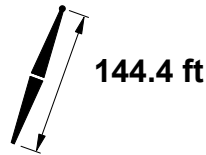
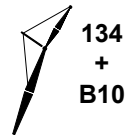
114,600 lb
+
0 lb

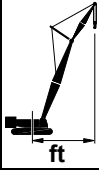
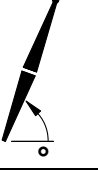
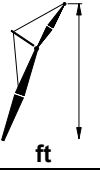
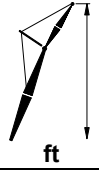
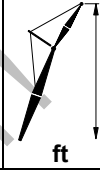


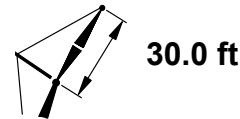
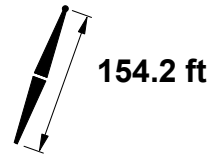
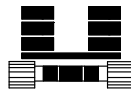
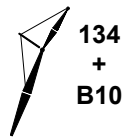
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
34	80.7	169.9	63,000							34
35	80.4	169.7	63,000							35
39	78.9	168.9	63,000	80.8	168.1	59,800				39
40	78.6	168.7	63,000	80.4	167.9	59,600				40
44	77.2	167.7	63,000	79.0	166.9	58,900	80.8	165.1	50,700	44
45	76.8	167.5	63,000	78.6	166.7	58,700	80.5	164.9	50,300	45
50	75.0	166.2	62,100	76.8	165.4	57,900	78.6	163.5	48,200	50
55	73.2	164.7	61,000	75.0	163.8	57,100	76.8	162.0	46,300	55
60	71.3	163.0	56,200	73.1	162.1	56,300	74.9	160.3	44,500	60
65	69.5	161.1	49,800	71.3	160.3	51,000	73.0	158.4	42,900	65
70	67.6	159.1	44,600	69.4	158.2	45,600	71.1	156.3	41,500	70
75	65.7	156.8	40,100	67.5	155.9	41,000	69.2	154.0	40,100	75
80	63.8	154.4	36,200	65.5	153.5	37,100	67.2	151.5	37,900	80
85	61.8	151.7	32,900	63.5	150.8	33,600	65.2	148.8	34,400	85
90	59.8	148.8	30,000	61.5	147.9	30,700	63.1	145.8	31,300	90
95	57.7	145.6	27,400	59.4	144.7	28,000	61.0	142.6	28,600	95
100	55.6	142.2	25,100	57.3	141.3	25,600	58.9	139.1	26,200	100
105	53.4	138.6	23,000	55.1	137.6	23,500	56.6	135.3	24,000	105
110	51.2	134.6	21,100	52.9	133.6	21,600	54.4	131.2	22,000	110
115	48.9	130.3	19,500	50.6	129.2	19,900	52.0	126.8	20,300	115
120	46.5	125.6	17,900	48.1	124.5	18,300	49.5	122.0	18,600	120
125	44.0	120.5	16,500	45.6	119.3	16,900	47.0	116.7	17,100	125
130	41.4	114.9	15,200	43.0	113.7	15,500	44.3	110.9	15,800	130
134	39.2	110.0	14,200	40.8	108.7	14,500	42.0	105.9	14,700	134
135	38.7	108.7	14,000	40.2	107.4	14,300				135
140	35.7	101.9	12,900	37.2	100.6	13,100				140
145	32.5	94.3	11,900	34.0	92.8	12,100				145
150	29.0	85.6	10,900	30.4	83.9	11,100				150
155	25.1	75.5	10,000							155
160	20.4	63.0	9,100							160

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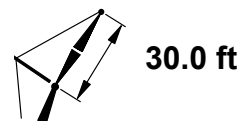
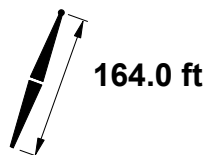
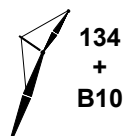
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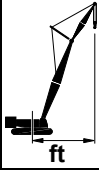
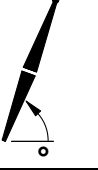
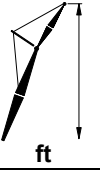
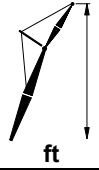
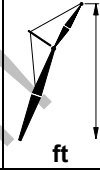


	5°			15°			25°			
 ft	 o	 ft	 lb	 o	 ft	 lb	 o	 ft	 lb	 ft
35	80.9	179.7	63,000							35
40	79.2	178.7	63,000	81.0	177.9	59,600				40
45	77.6	177.6	63,000	79.3	176.8	58,700	81.0	175.0	50,900	45
50	75.9	176.4	62,300	77.6	175.6	57,900	79.3	173.7	48,900	50
55	74.2	175.0	61,300	75.9	174.1	57,200	77.6	172.3	47,000	55
60	72.4	173.4	55,900	74.1	172.6	56,500	75.8	170.7	45,300	60
65	70.7	171.6	49,600	72.4	170.8	50,700	74.1	168.9	43,800	65
70	68.9	169.7	44,300	70.6	168.9	45,300	72.3	166.9	42,300	70
75	67.2	167.6	39,800	68.8	166.8	40,800	70.5	164.8	41,000	75
80	65.3	165.3	36,000	67.0	164.5	36,800	68.6	162.5	37,700	80
85	63.5	162.9	32,600	65.2	162.0	33,400	66.7	159.9	34,200	85
90	61.6	160.2	29,700	63.3	159.3	30,400	64.8	157.2	31,100	90
95	59.7	157.3	27,100	61.4	156.3	27,800	62.9	154.2	28,400	95
100	57.8	154.1	24,800	59.4	153.2	25,400	60.9	151.0	26,000	100
105	55.8	150.8	22,800	57.4	149.8	23,300	58.9	147.6	23,800	105
110	53.8	147.1	20,900	55.4	146.1	21,400	56.8	143.9	21,900	110
115	51.7	143.2	19,200	53.3	142.2	19,700	54.7	139.9	20,100	115
120	49.6	139.0	17,700	51.1	137.9	18,100	52.5	135.5	18,500	120
125	47.3	134.4	16,300	48.9	133.3	16,600	50.2	130.8	17,000	125
130	45.0	129.5	15,000	46.5	128.3	15,300	47.8	125.7	15,600	130
135	42.6	124.1	13,800	44.1	122.9	14,100	45.3	120.2	14,300	135
140	40.1	118.3	12,700	41.5	117.0	12,900	42.7	114.1	13,200	140
141	39.5	117.0	12,500	41.0	115.7	12,700	42.1	112.8	12,900	141
145	37.4	111.8	11,600	38.8	110.5	11,900				145
150	34.5	104.7	10,700	35.9	103.3	10,900				150
155	31.5	96.8	9,800	32.8	95.2	10,000				155
158	29.4	91.4	9,300	30.8	89.8	9,400				158
160	28.1	87.7	8,900							160
165	24.2	77.2	8,100							165
169	20.6	67.1	7,500							169



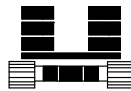
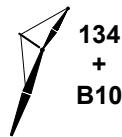
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
37	80.8	189.3	63,000							37
40	79.8	188.8	63,000							40
42	79.2	188.4	63,000	80.8	187.6	59,200				42
45	78.2	187.7	63,000	79.9	186.9	58,700				45
47	77.6	187.3	62,700	79.2	186.4	58,400	80.9	184.6	50,800	47
50	76.6	186.6	62,400	78.3	185.7	57,900	79.9	183.9	49,600	50
55	75.0	185.2	61,400	76.7	184.4	57,200	78.3	182.5	47,800	55
60	73.4	183.7	55,500	75.0	182.9	56,600	76.6	181.0	46,100	60
65	71.8	182.1	49,200	73.4	181.2	50,400	75.0	179.3	44,600	65
70	70.1	180.3	43,900	71.7	179.4	45,000	73.3	177.5	43,100	70
75	68.4	178.3	39,400	70.0	177.4	40,400	71.6	175.5	41,300	75
80	66.8	176.2	35,500	68.3	175.3	36,400	69.9	173.3	37,300	80
85	65.0	173.9	32,200	66.6	173.0	33,000	68.1	170.9	33,800	85
90	63.3	171.3	29,300	64.9	170.4	30,000	66.3	168.4	30,700	90
95	61.5	168.6	26,700	63.1	167.7	27,400	64.5	165.6	28,000	95
100	59.7	165.7	24,400	61.3	164.8	25,000	62.7	162.7	25,600	100
105	57.9	162.6	22,300	59.4	161.7	22,900	60.8	159.5	23,400	105
110	56.0	159.3	20,400	57.5	158.3	21,000	58.9	156.1	21,500	110
115	54.1	155.7	18,700	55.6	154.7	19,200	57.0	152.4	19,700	115
120	52.1	151.8	17,200	53.6	150.8	17,700	55.0	148.5	18,100	120
125	50.1	147.7	15,800	51.6	146.6	16,200	52.9	144.2	16,600	125
130	48.0	143.2	14,500	49.5	142.1	14,900	50.8	139.6	15,200	130
135	45.9	138.4	13,300	47.3	137.3	13,700	48.5	134.7	14,000	135
140	43.6	133.2	12,200	45.1	132.1	12,500	46.2	129.4	12,800	140
145	41.3	127.6	11,200	42.7	126.4	11,500	43.8	123.6	11,700	145
149	39.3	122.7	10,400	40.7	121.4	10,700	41.8	118.5	10,900	149
150	38.8	121.5	10,200	40.2	120.2	10,500				150
155	36.2	114.8	9,300	37.6	113.4	9,500				155
160	33.5	107.4	8,500	34.8	105.9	8,700				160
165	30.5	99.2	7,700	31.7	97.5	7,900				165
167	29.1	95.4	7,400	30.4	93.9	7,500				167
170	27.2	89.8	6,900							170
175	23.4	78.8	6,200							175
179	19.9	68.3	5,700							179



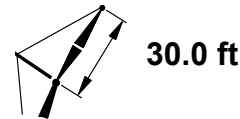
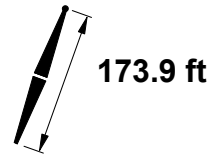
	5°			15°			25°			
 ft	 o	 ft	 lb	 o	 ft	 lb	 o	 ft	 lb	 ft
38	81.0	199.1	63,000							38
40	80.4	198.8	63,000							40
43	79.4	198.2	63,000	81.0	197.4	58,900				43
45	78.8	197.8	63,000	80.4	197.0	58,600				45
49	77.6	196.9	62,500	79.2	196.1	58,000	80.8	194.2	50,600	49
50	77.3	196.7	62,400	78.9	195.9	57,900	80.4	194.0	50,200	50
55	75.8	195.4	61,500	77.4	194.6	57,200	78.9	192.7	48,400	55
60	74.3	194.0	55,200	75.8	193.2	56,500	77.3	191.3	46,800	60
65	72.7	192.5	48,800	74.3	191.6	50,100	75.8	189.7	45,300	65
70	71.2	190.8	43,500	72.7	189.9	44,600	74.2	188.0	43,900	70
75	69.6	188.9	39,000	71.1	188.0	40,000	72.6	186.1	41,100	75
80	68.0	186.9	35,200	69.5	186.0	36,100	71.0	184.0	37,000	80
85	66.4	184.7	31,800	67.9	183.8	32,700	69.3	181.8	33,500	85
90	64.8	182.4	28,900	66.3	181.5	29,700	67.7	179.4	30,400	90
95	63.1	179.8	26,300	64.6	178.9	27,000	66.0	176.9	27,700	95
100	61.4	177.1	24,000	62.9	176.2	24,600	64.3	174.1	25,300	100
105	59.7	174.2	21,900	61.2	173.3	22,500	62.5	171.1	23,100	105
110	58.0	171.1	20,000	59.4	170.1	20,600	60.8	168.0	21,100	110
115	56.2	167.8	18,300	57.6	166.8	18,900	59.0	164.6	19,400	115
120	54.4	164.2	16,800	55.8	163.2	17,300	57.1	160.9	17,700	120
125	52.5	160.4	15,400	54.0	159.4	15,900	55.2	157.0	16,300	125
130	50.6	156.3	14,100	52.0	155.3	14,500	53.3	152.9	14,900	130
135	48.7	152.0	12,900	50.1	150.9	13,300	51.3	148.4	13,600	135
140	46.7	147.3	11,800	48.0	146.2	12,200	49.2	143.6	12,500	140
145	44.6	142.3	10,800	45.9	141.1	11,100	47.0	138.4	11,400	145
150	42.4	136.9	9,800	43.7	135.6	10,100	44.8	132.9	10,400	150
155	40.1	131.0	8,900	41.4	129.7	9,200	42.4	126.8	9,400	155
156	39.6	129.7	8,800	40.9	128.4	9,000	41.9	125.5	9,200	156
160	37.7	124.6	8,100	39.0	123.3	8,300				160
165	35.2	117.7	7,300	36.4	116.2	7,500				165
170	32.5	110.0	6,600	33.7	108.5	6,800				170
175	29.6	101.4	5,900	30.7	99.8	6,000				175
180	26.3	91.7	5,200							180
185	22.7	80.3	4,600							185
188	20.1	72.4	4,200							188

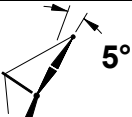
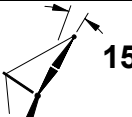
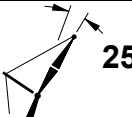
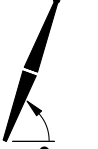
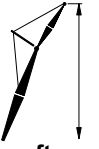
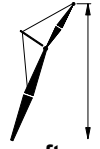
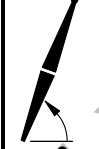
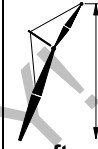
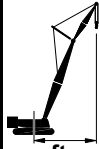
MLC200 S-1

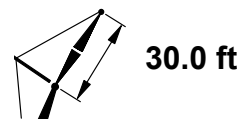
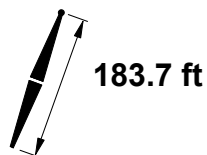
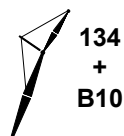
ASME B30.5



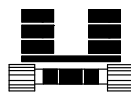
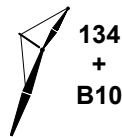
114,600 lb
+
0 lb



	 5°			 15°			 25°			
										
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
40	80.8	208.8	63,000	80.9	207.0	58,500	80.9	204.1	50,800	40
45	79.4	207.9	63,000	79.4	205.9	57,800	79.5	202.8	49,100	45
50	78.0	206.8	62,300	78.0	204.7	57,100	78.0	201.5	47,500	50
55	76.5	205.6	61,400	76.5	203.4	56,200	76.5	200.0	46,000	55
60	75.1	204.3	54,700	75.1	201.9	49,700	75.0	198.4	44,600	60
65	73.6	202.8	48,400	73.6	200.3	44,300	73.5	196.6	40,700	65
70	72.1	201.2	43,100	72.1	198.5	39,600	72.0	194.7	36,700	70
75	70.6	199.4	38,600	70.6	196.6	35,700	70.4	192.6	33,100	75
80	69.1	197.5	34,700	69.0	194.6	32,300				80
85	67.6	195.5	31,300							85
90	66.1	193.3	28,400	67.5	192.3	29,200	68.9	190.3	30,100	90
95	64.5	190.9	25,800	65.9	190.0	26,600	67.3	187.9	27,300	95
100	62.9	188.3	23,500	64.3	187.4	24,200	65.7	185.3	24,900	100
105	61.3	185.6	21,400	62.7	184.7	22,100	64.0	182.5	22,700	105
110	59.7	182.7	19,600	61.1	181.7	20,200	62.4	179.6	20,700	110
115	58.1	179.6	17,900	59.4	178.6	18,400	60.7	176.4	19,000	115
120	56.4	176.3	16,300	57.7	175.3	16,800	59.0	173.1	17,300	120
125	54.6	172.8	14,900	56.0	171.7	15,400	57.2	169.5	15,800	125
130	52.9	169.0	13,600	54.2	168.0	14,100	55.4	165.6	14,500	130
135	51.1	165.0	12,400	52.4	163.9	12,800	53.6	161.5	13,200	135
140	49.2	160.7	11,300	50.6	159.6	11,700	51.7	157.1	12,000	140
145	47.3	156.1	10,300	48.6	155.0	10,700	49.8	152.5	11,000	145
150	45.4	151.2	9,300	46.7	150.1	9,700	47.7	147.4	9,900	150
155	43.3	146.0	8,500	44.6	144.8	8,800	45.6	142.1	9,000	155
160	41.2	140.4	7,600	42.5	139.1	7,900	43.5	136.2	8,100	160
163	39.9	136.7	7,100	41.1	135.4	7,400	42.1	132.5	7,600	163
165	39.0	134.3	6,800	40.2	133.0	7,100				165
170	36.7	127.7	6,100	37.9	126.3	6,300				170
175	34.2	120.5	5,400	35.4	119.0	5,600				175
180	31.6	112.5	4,700	32.7	110.9	4,900				180
184	29.3	105.4	4,200	30.4	103.8	4,400				184
185	28.7	103.6	4,100							185



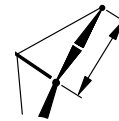
	5°			15°			25°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
41	81.0	218.6	63,000							41
45	79.9	217.9	63,000							45
46	79.6	217.7	62,800	81.0	216.8	58,100				46
50	78.5	216.9	62,100	79.9	216.0	57,600				50
52	78.0	216.4	61,800	79.4	215.6	57,300	80.8	213.7	50,600	52
55	77.1	215.7	61,200	78.6	214.9	57,000	80.0	213.0	49,600	55
60	75.8	214.5	54,400	77.2	213.6	55,900	78.6	211.7	48,100	60
65	74.4	213.1	48,100	75.8	212.2	49,400	77.1	210.3	46,600	65
70	73.0	211.5	42,800	74.4	210.7	44,000	75.7	208.7	45,200	70
75	71.6	209.9	38,300	72.9	209.0	39,400	74.3	207.0	40,500	75
80	70.1	208.1	34,400	71.5	207.2	35,400	72.8	205.2	36,400	80
85	68.7	206.1	31,000	70.1	205.2	32,000	71.4	203.2	32,900	85
90	67.2	204.0	28,100	68.6	203.1	29,000	69.9	201.1	29,800	90
95	65.8	201.8	25,500	67.1	200.9	26,300	68.4	198.8	27,100	95
100	64.3	199.4	23,200	65.6	198.5	23,900	66.9	196.4	24,600	100
105	62.8	196.8	21,100	64.1	195.9	21,800	65.4	193.8	22,500	105
110	61.2	194.1	19,200	62.6	193.1	19,900	63.8	191.0	20,500	110
115	59.7	191.2	17,600	61.0	190.2	18,200	62.2	188.0	18,700	115
120	58.1	188.1	16,000	59.4	187.1	16,600	60.6	184.9	17,100	120
125	56.5	184.8	14,600	57.8	183.8	15,100	59.0	181.5	15,600	125
130	54.9	181.3	13,300	56.2	180.3	13,800	57.3	178.0	14,200	130
135	53.2	177.6	12,100	54.5	176.5	12,600	55.6	174.2	13,000	135
140	51.5	173.6	11,000	52.8	172.5	11,400	53.9	170.1	11,800	140
145	49.7	169.4	10,000	51.0	168.3	10,400	52.1	165.9	10,700	145
150	47.9	164.9	9,000	49.2	163.8	9,400	50.3	161.3	9,700	150
155	46.1	160.2	8,200	47.3	159.0	8,500	48.4	156.4	8,800	155
160	44.2	155.1	7,300	45.4	153.9	7,600	46.4	151.2	7,900	160
165	42.2	149.6	6,600	43.4	148.4	6,800	44.4	145.5	7,000	165
170	40.1	143.8	5,800	41.3	142.5	6,100	42.2	139.5	6,300	170
171	39.7	142.5	5,700	40.9	141.2	5,900	41.8	138.2	6,100	171
175	38.0	137.4	5,100	39.1	136.1	5,400				175
180	35.7	130.6	4,500	36.8	129.2	4,700				180
185				34.4	121.6	4,000				185



114,600 lb
+
0 lb



193.6 ft

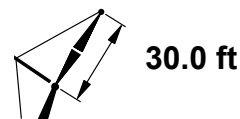
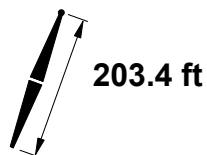
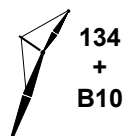


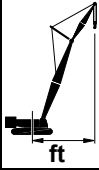
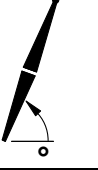
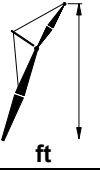
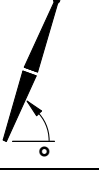
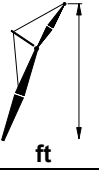
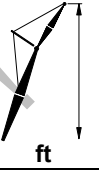
30.0 ft

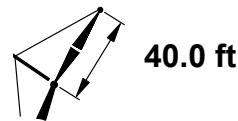
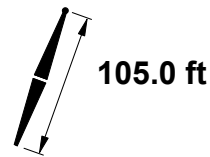
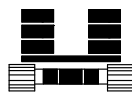
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
43	80.9	228.2	63,000							43
45	80.3	227.9	62,700							45
48	79.6	227.3	62,200	80.9	226.5	57,600				48
50	79.0	226.9	61,800	80.4	226.1	57,400				50
53	78.2	226.3	61,300	79.6	225.4	57,000	81.0	223.5	50,800	53
55	77.7	225.8	61,000	79.1	225.0	56,800	80.4	223.1	50,200	55
60	76.4	224.6	54,100	77.7	223.8	55,600	79.1	221.8	48,600	60
65	75.1	223.3	47,700	76.4	222.4	49,100	77.7	220.5	47,200	65
70	73.7	221.8	42,400	75.1	221.0	43,600	76.4	219.0	44,900	70
75	72.4	220.3	37,800	73.7	219.4	39,000	75.0	217.4	40,100	75
80	71.0	218.5	34,000	72.4	217.7	35,000	73.7	215.7	36,100	80
85	69.7	216.7	30,600	71.0	215.8	31,600	72.3	213.8	32,500	85
90	68.3	214.7	27,700	69.6	213.8	28,600	70.9	211.8	29,400	90
95	66.9	212.6	25,000	68.2	211.7	25,900	69.5	209.6	26,700	95
100	65.5	210.3	22,700	66.8	209.4	23,500	68.0	207.3	24,300	100
105	64.1	207.9	20,700	65.4	207.0	21,400	66.6	204.9	22,100	105
110	62.6	205.3	18,800	63.9	204.4	19,500	65.1	202.2	20,100	110
115	61.2	202.6	17,100	62.4	201.6	17,700	63.6	199.5	18,300	115
120	59.7	199.7	15,500	61.0	198.7	16,100	62.1	196.5	16,700	120
125	58.2	196.6	14,100	59.4	195.6	14,700	60.6	193.4	15,200	125
130	56.6	193.3	12,800	57.9	192.3	13,300	59.0	190.0	13,800	130
135	55.1	189.8	11,600	56.3	188.8	12,100	57.4	186.5	12,600	135
140	53.5	186.1	10,500	54.7	185.1	11,000	55.8	182.7	11,400	140
145	51.9	182.2	9,500	53.1	181.2	9,900	54.2	178.8	10,300	145
150	50.2	178.1	8,600	51.4	177.0	9,000	52.5	174.5	9,300	150
155	48.5	173.7	7,700	49.7	172.6	8,000	50.7	170.0	8,300	155
160	46.7	169.0	6,800	47.9	167.9	7,200	48.9	165.3	7,500	160
165	44.9	164.1	6,100	46.1	162.9	6,400	47.1	160.2	6,600	165
170	43.1	158.8	5,300	44.2	157.5	5,600	45.2	154.7	5,800	170
175	41.1	153.1	4,600	42.3	151.8	4,900	43.2	148.9	5,100	175
178	39.9	149.5	4,300	41.1	148.1	4,500	41.9	145.2	4,700	178
180	39.1	147.0	4,000	40.2	145.7	4,200				180

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ASME B30.5



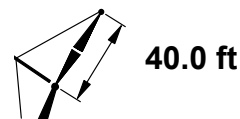
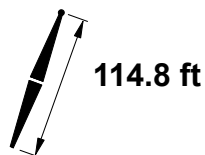
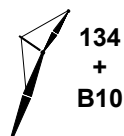
	5°			15°			25°			
 ft	 o	 ft	 lb	 o	 ft	 lb	 o	 ft	 lb	 ft
44	81.0	238.1	62,400							44
45	80.8	237.9	62,200							45
50	79.5	237.0	61,500	80.8	236.1	57,000				50
55	78.2	235.9	60,700	79.5	235.1	56,400	80.8	233.1	50,700	55
60	77.0	234.8	53,700	78.3	233.9	55,300	79.6	232.0	49,200	60
65	75.7	233.5	47,300	77.0	232.6	48,700	78.3	230.7	47,800	65
70	74.4	232.1	42,000	75.7	231.2	43,300	77.0	229.3	44,600	70
75	73.2	230.6	37,400	74.4	229.7	38,600	75.7	227.8	39,800	75
80	71.9	229.0	33,600	73.1	228.1	34,700	74.4	226.1	35,800	80
85	70.6	227.2	30,200	71.8	226.3	31,200	73.1	224.3	32,200	85
90	69.3	225.3	27,300	70.5	224.4	28,200	71.7	222.4	29,100	90
95	67.9	223.3	24,600	69.2	222.4	25,500	70.4	220.3	26,400	95
100	66.6	221.1	22,300	67.8	220.2	23,100	69.0	218.2	23,900	100
105	65.2	218.8	20,200	66.5	217.9	21,000	67.7	215.8	21,700	105
110	63.9	216.4	18,400	65.1	215.5	19,100	66.3	213.3	19,700	110
115	62.5	213.8	16,700	63.7	212.8	17,300	64.9	210.7	18,000	115
120	61.1	211.0	15,100	62.3	210.1	15,700	63.4	207.9	16,300	120
125	59.7	208.1	13,700	60.9	207.2	14,300	62.0	205.0	14,800	125
130	58.2	205.0	12,400	59.4	204.1	13,000	60.5	201.8	13,500	130
135	56.8	201.8	11,200	58.0	200.8	11,700	59.1	198.5	12,200	135
140	55.3	198.3	10,100	56.5	197.3	10,600	57.5	195.0	11,000	140
145	53.8	194.7	9,100	54.9	193.6	9,500	56.0	191.3	9,900	145
150	52.2	190.8	8,200	53.4	189.8	8,600	54.4	187.4	8,900	150
155	50.6	186.8	7,300	51.8	185.7	7,700	52.8	183.2	8,000	155
160	49.0	182.4	6,400	50.2	181.3	6,800	51.1	178.8	7,100	160
165	47.3	177.9	5,700	48.5	176.7	6,000	49.4	174.1	6,300	165
170	45.6	173.0	4,900	46.8	171.8	5,200	47.7	169.2	5,500	170
175	43.9	167.9	4,200	45.0	166.6	4,500	45.9	163.9	4,800	175
180							44.0	158.2	4,100	180

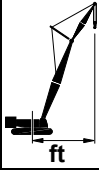
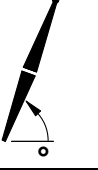
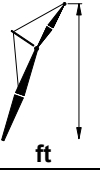
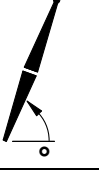
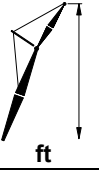
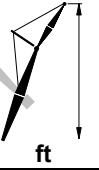


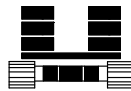
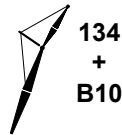
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
32	80.9	150.3	54,800							32
35	79.7	149.7	53,900							35
39	78.1	148.8	52,900	80.8	147.8	48,500				39
40	77.7	148.6	52,700	80.4	147.5	48,300				40
45	75.6	147.2	51,400	78.3	146.2	47,400				45
46	75.2	146.9	51,200	77.9	145.9	47,200	80.7	143.6	40,100	46
50	73.5	145.7	50,200	76.3	144.6	46,600	79.0	142.3	38,600	50
55	71.4	144.0	49,100	74.1	142.9	45,800	76.9	140.5	36,800	55
60	69.3	142.0	48,100	72.0	140.9	45,100	74.7	138.5	35,300	60
65	67.2	139.8	47,200	69.8	138.7	44,400	72.5	136.3	33,800	65
70	65.0	137.5	46,200	67.6	136.3	43,800	70.2	133.9	32,600	70
75	62.7	134.8	42,100	65.4	133.7	42,100	67.9	131.2	31,400	75
80	60.5	131.9	38,300	63.1	130.7	39,100	65.6	128.2	30,300	80
85	58.1	128.8	34,900	60.7	127.5	35,700	63.2	124.9	29,300	85
90	55.7	125.3	32,000	58.3	124.0	32,700	60.7	121.3	28,400	90
95	53.2	121.5	29,400	55.8	120.2	30,000	58.1	117.4	27,600	95
100	50.7	117.4	27,100	53.2	116.0	27,700	55.4	113.1	26,900	100
105	48.0	112.8	25,000	50.4	111.4	25,500	52.7	108.3	26,000	105
110	45.2	107.8	23,100	47.6	106.3	23,600	49.7	103.1	24,000	110
115	42.2	102.3	21,400	44.6	100.7	21,800	46.6	97.3	22,200	115
120	39.1	96.1	19,900	41.4	94.4	20,200	43.3	90.7	20,500	120
125	35.7	89.2	18,400	38.0	87.3	18,800				125
130	32.0	81.2	17,100	34.2	79.2	17,400				130
133	29.5	75.6	16,400	31.6	73.7	16,600				133
135	27.8	71.9	15,900							135
140	22.9	60.6	14,800							140
141	21.8	57.9	14,500							141

MLC200 S-1

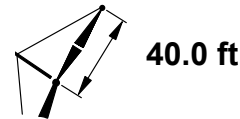
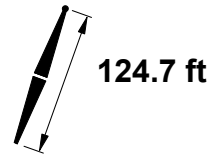
ASME B30.5



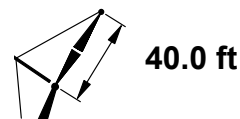
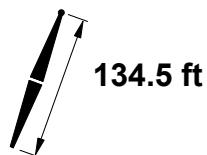
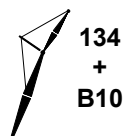
	5°			15°			25°			
 ft	 o	 ft	 lb	 o	 ft	 lb	 o	 ft	 lb	 ft
34	80.7	160.0	54,400							34
35	80.3	159.8	54,200							35
40	78.5	158.7	52,900							40
41	78.1	158.4	52,700	80.6	157.4	48,200				41
45	76.5	157.4	51,800	79.1	156.4	47,600				45
47	75.8	156.9	51,300	78.3	155.8	47,200	81.0	153.5	40,300	47
50	74.6	156.0	50,600	77.2	154.9	46,800	79.8	152.6	39,200	50
55	72.7	154.4	49,600	75.2	153.3	46,000	77.8	150.9	37,500	55
60	70.7	152.6	48,600	73.2	151.5	45,400	75.8	149.1	36,000	60
65	68.7	150.6	47,600	71.2	149.5	44,800	73.7	147.0	34,600	65
70	66.7	148.4	46,200	69.2	147.2	44,200	71.6	144.8	33,300	70
75	64.6	146.0	41,700	67.1	144.8	42,700	69.5	142.3	32,200	75
80	62.5	143.3	37,800	65.0	142.1	38,800	67.4	139.5	31,100	80
85	60.4	140.4	34,500	62.8	139.2	35,300	65.2	136.6	30,100	85
90	58.2	137.3	31,500	60.6	136.0	32,300	62.9	133.3	29,200	90
95	56.0	133.8	28,900	58.3	132.5	29,600	60.6	129.8	28,400	95
100	53.6	130.1	26,600	56.0	128.8	27,300	58.2	125.9	27,700	100
105	51.3	126.0	24,500	53.6	124.7	25,100	55.7	121.7	25,700	105
110	48.8	121.6	22,700	51.1	120.2	23,200	53.2	117.1	23,700	110
115	46.2	116.8	21,000	48.5	115.3	21,400	50.5	112.1	21,900	115
120	43.5	111.5	19,400	45.8	109.9	19,800	47.6	106.5	20,200	120
125	40.7	105.6	18,000	42.9	104.0	18,400	44.6	100.4	18,700	125
127	39.5	103.0	17,500	41.6	101.3	17,800	43.4	97.7	18,100	127
130	37.6	99.2	16,700	39.8	97.4	17,000				130
135	34.4	91.9	15,500	36.4	89.9	15,700				135
140	30.8	83.6	14,300	32.7	81.4	14,600				140
141	30.0	81.6	14,100	32.0	79.5	14,300				141
145	26.7	73.8	13,300							145
150	21.9	62.0	12,300							150



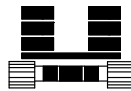
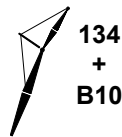
114,600 lb
+
0 lb



	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
35	80.9	169.8	54,300							35
40	79.2	168.8	53,100							40
42	78.4	168.3	52,700	80.9	167.2	48,100				42
45	77.4	167.6	52,000	79.8	166.5	47,700				45
49	75.9	166.5	51,100	78.3	165.4	47,100	80.8	163.1	40,100	49
50	75.6	166.3	50,900	78.0	165.2	46,900	80.4	162.8	39,800	50
55	73.7	164.8	49,900	76.1	163.6	46,300	78.6	161.2	38,200	55
60	71.9	163.1	49,000	74.3	161.9	45,600	76.7	159.5	36,700	60
65	70.1	161.2	48,100	72.4	160.1	45,100	74.8	157.6	35,300	65
70	68.2	159.2	45,800	70.5	158.0	44,500	72.9	155.5	34,100	70
75	66.3	156.9	41,300	68.6	155.7	42,400	70.9	153.2	32,900	75
80	64.3	154.5	37,400	66.6	153.3	38,400	68.9	150.7	31,900	80
85	62.3	151.8	34,100	64.6	150.6	35,000	66.9	147.9	30,900	85
90	60.3	148.9	31,100	62.6	147.6	32,000	64.8	145.0	30,000	90
95	58.3	145.7	28,500	60.5	144.5	29,300	62.7	141.7	29,200	95
100	56.2	142.3	26,200	58.4	141.0	26,900	60.5	138.2	27,600	100
105	54.0	138.7	24,100	56.2	137.3	24,800	58.3	134.4	25,400	105
110	51.8	134.7	22,300	54.0	133.3	22,900	56.0	130.3	23,400	110
115	49.5	130.4	20,600	51.7	128.9	21,100	53.6	125.8	21,600	115
120	47.1	125.7	19,000	49.2	124.2	19,500	51.1	121.0	19,900	120
125	44.6	120.6	17,600	46.7	119.0	18,000	48.5	115.6	18,400	125
130	42.0	115.0	16,300	44.1	113.4	16,700	45.8	109.8	17,000	130
135	39.3	108.9	15,100	41.3	107.1	15,400	42.9	103.3	15,700	135
140	36.3	102.1	14,000	38.3	100.2	14,300				140
145	33.1	94.5	12,900	35.0	92.4	13,200				145
150	29.7	85.8	12,000	31.5	83.5	12,200				150
155	25.7	75.7	11,000							155
160	21.1	63.3	10,200							160



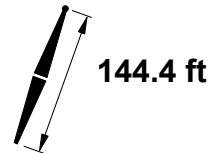
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
37	80.8	179.4	53,900							37
40	79.8	178.8	53,200							40
44	78.4	177.9	52,400	80.7	176.8	48,000				44
45	78.1	177.7	52,200	80.4	176.6	47,800				45
50	76.4	176.5	51,200	78.7	175.4	47,100	81.0	172.9	40,300	50
55	74.7	175.1	50,200	77.0	173.9	46,500	79.2	171.5	38,700	55
60	73.0	173.5	49,300	75.2	172.3	45,800	77.5	169.9	37,300	60
65	71.2	171.7	48,500	73.5	170.6	45,300	75.7	168.1	36,000	65
70	69.5	169.8	45,300	71.7	168.6	44,700	73.9	166.1	34,700	70
75	67.7	167.7	40,800	69.9	166.5	42,000	72.1	164.0	33,600	75
80	65.9	165.4	37,000	68.1	164.2	38,000	70.2	161.6	32,500	80
85	64.1	162.9	33,600	66.2	161.7	34,600	68.4	159.1	31,600	85
90	62.2	160.3	30,700	64.4	159.0	31,600	66.4	156.3	30,700	90
95	60.3	157.4	28,100	62.4	156.1	28,900	64.5	153.4	29,700	95
100	58.4	154.2	25,700	60.5	152.9	26,500	62.5	150.1	27,200	100
105	56.4	150.9	23,700	58.5	149.5	24,400	60.5	146.7	25,000	105
110	54.3	147.2	21,800	56.4	145.9	22,400	58.4	142.9	23,000	110
115	52.3	143.3	20,100	54.3	141.9	20,700	56.2	138.9	21,200	115
120	50.1	139.1	18,500	52.2	137.6	19,100	54.0	134.5	19,600	120
125	47.9	134.5	17,100	49.9	133.0	17,600	51.7	129.8	18,000	125
130	45.6	129.6	15,800	47.6	128.0	16,300	49.3	124.7	16,600	130
135	43.2	124.2	14,600	45.1	122.6	15,000	46.8	119.1	15,400	135
140	40.6	118.4	13,500	42.6	116.7	13,900	44.1	112.9	14,200	140
142	39.6	115.8	13,100	41.5	114.1	13,400	43.0	110.3	13,700	142
145	38.0	112.0	12,500	39.8	110.2	12,800				145
150	35.1	104.9	11,500	36.9	102.9	11,800				150
155	32.0	96.9	10,600	33.8	94.8	10,800				155
158	30.0	91.5	10,100	31.7	89.4	10,300				158
160	28.6	87.9	9,700							160
165	24.8	77.4	8,900							165
169	21.2	67.3	8,300							169



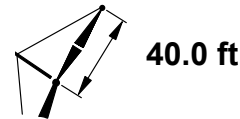
114,600 lb
+
0 lb



360°

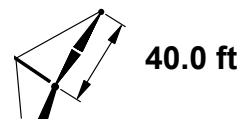
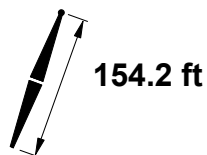
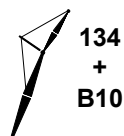


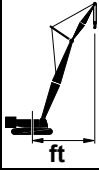
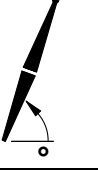
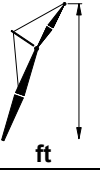
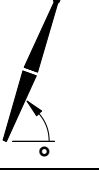
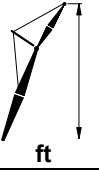
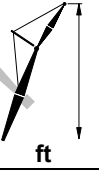
144.4 ft

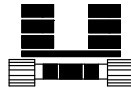
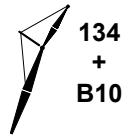


40.0 ft

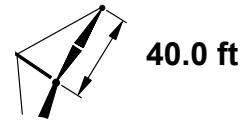
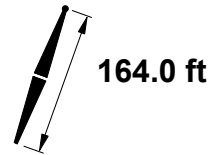
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
38	81.0	189.2	53,600							38
40	80.3	188.9	53,300							40
45	78.7	187.8	52,300	80.9	186.7	47,800				45
50	77.1	186.6	51,300	79.3	185.5	47,200				50
52	76.5	186.1	50,900	78.6	185.0	46,900	80.8	182.5	40,200	52
55	75.5	185.3	50,400	77.7	184.2	46,600	79.9	181.7	39,300	55
60	73.9	183.8	49,600	76.0	182.7	46,000	78.2	180.2	37,900	60
65	72.3	182.2	48,800	74.4	181.0	45,400	76.5	178.5	36,500	65
70	70.6	180.4	45,100	72.7	179.2	44,900	74.8	176.7	35,300	70
75	69.0	178.4	40,600	71.0	177.2	41,800	73.1	174.7	34,200	75
80	67.3	176.3	36,700	69.3	175.1	37,800	71.4	172.5	33,200	80
85	65.5	173.9	33,300	67.6	172.7	34,300	69.6	170.1	32,200	85
90	63.8	171.4	30,400	65.9	170.2	31,300	67.9	167.5	31,300	90
95	62.0	168.7	27,800	64.1	167.5	28,600	66.1	164.8	29,500	95
100	60.2	165.8	25,500	62.3	164.6	26,300	64.2	161.8	27,000	100
105	58.4	162.7	23,400	60.4	161.4	24,100	62.3	158.6	24,800	105
110	56.5	159.4	21,500	58.5	158.0	22,200	60.4	155.1	22,800	110
115	54.6	155.8	19,800	56.6	154.4	20,400	58.4	151.4	21,000	115
120	52.7	151.9	18,300	54.6	150.5	18,800	56.4	147.5	19,400	120
125	50.6	147.8	16,900	52.6	146.3	17,400	54.3	143.2	17,900	125
130	48.6	143.3	15,600	50.5	141.8	16,000	52.2	138.6	16,500	130
135	46.4	138.5	14,400	48.3	137.0	14,800	49.9	133.6	15,200	135
140	44.2	133.4	13,200	46.0	131.7	13,600	47.6	128.2	14,000	140
145	41.8	127.7	12,200	43.7	126.0	12,600	45.2	122.4	12,900	145
149	39.9	122.9	11,400	41.7	121.1	11,800	43.1	117.3	12,000	149
150	39.4	121.6	11,200	41.2	119.9	11,600				150
155	36.8	115.0	10,300	38.5	113.1	10,600				155
160	34.0	107.6	9,500	35.7	105.5	9,800				160
165	31.0	99.3	8,700	32.6	97.1	8,900				165
166	30.3	97.4	8,600	32.0	95.3	8,800				166
170	27.7	90.0	8,000							170
175	24.0	79.0	7,200							175
178	21.4	71.3	6,800							178



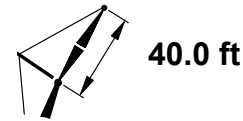
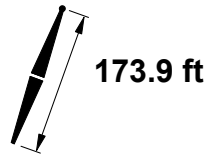
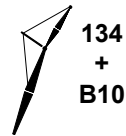
	5°			15°			25°			
 ft	 o	 ft	 lb	 o	 ft	 lb	 o	 ft	 lb	 ft
40	80.8	198.9	53,300							40
45	79.3	197.9	52,300							45
47	78.7	197.4	51,900	80.8	196.3	47,500				47
50	77.8	196.8	51,400	79.9	195.6	47,100				50
53	76.9	196.0	50,800	78.9	194.9	46,800	81.0	192.4	40,400	53
55	76.3	195.5	50,500	78.3	194.4	46,600	80.4	191.9	39,800	55
60	74.8	194.1	49,700	76.8	192.9	46,000	78.8	190.4	38,400	60
65	73.2	192.5	48,900	75.2	191.4	45,500	77.3	188.9	37,100	65
70	71.7	190.8	44,600	73.7	189.7	45,000	75.7	187.1	35,900	70
75	70.1	189.0	40,100	72.1	187.8	41,400	74.1	185.2	34,800	75
80	68.5	187.0	36,200	70.5	185.8	37,400	72.4	183.2	33,800	80
85	66.9	184.8	32,900	68.8	183.6	34,000	70.8	180.9	32,800	85
90	65.2	182.5	29,900	67.2	181.2	30,900	69.1	178.5	31,900	90
95	63.6	179.9	27,300	65.5	178.7	28,200	67.4	176.0	29,100	95
100	61.9	177.2	25,000	63.8	175.9	25,800	65.7	173.2	26,700	100
105	60.2	174.3	22,900	62.1	173.0	23,700	64.0	170.2	24,400	105
110	58.5	171.2	21,000	60.4	169.9	21,800	62.2	167.0	22,500	110
115	56.7	167.9	19,300	58.6	166.5	20,000	60.4	163.6	20,600	115
120	54.9	164.3	17,800	56.8	162.9	18,400	58.5	159.9	19,000	120
125	53.0	160.5	16,400	54.9	159.1	16,900	56.6	156.0	17,500	125
130	51.1	156.4	15,100	53.0	155.0	15,600	54.6	151.8	16,100	130
135	49.2	152.1	13,900	51.0	150.6	14,400	52.6	147.3	14,800	135
140	47.1	147.4	12,800	48.9	145.9	13,200	50.5	142.5	13,600	140
145	45.1	142.4	11,700	46.8	140.8	12,100	48.3	137.3	12,500	145
150	42.9	137.0	10,800	44.6	135.3	11,100	46.1	131.6	11,500	150
155	40.6	131.1	9,900	42.3	129.4	10,200	43.7	125.5	10,500	155
156	40.1	129.9	9,700	41.8	128.1	10,000	43.2	124.2	10,300	156
160	38.2	124.8	9,000	39.9	122.9	9,300				160
165	35.7	117.8	8,200	37.3	115.8	8,500				165
170	33.0	110.2	7,500	34.6	108.0	7,700				170
175	30.1	101.6	6,800	31.6	99.3	7,000				175
180	26.8	91.9	6,100							180
185	23.2	80.6	5,500							185
187	21.5	75.4	5,200							187

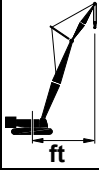
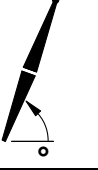
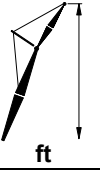
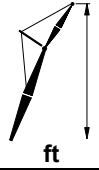
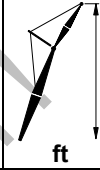


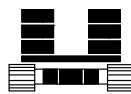
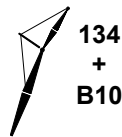
114,600 lb
+
0 lb



	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
41	81.0	208.7	52,900							41
45	79.8	207.9	52,300							45
48	79.0	207.3	51,700	80.9	206.2	47,400				48
50	78.4	206.9	51,400	80.4	205.7	47,100				50
55	77.0	205.7	50,500	78.9	204.5	46,600	80.9	202.0	40,200	55
60	75.5	204.3	49,800	77.4	203.2	46,000	79.4	200.6	38,900	60
65	74.0	202.9	49,000	76.0	201.7	45,600	77.9	199.2	37,600	65
70	72.6	201.3	44,300	74.5	200.1	45,100	76.4	197.5	36,500	70
75	71.1	199.5	39,700	73.0	198.3	41,100	74.9	195.7	35,400	75
80	69.6	197.6	35,900	71.5	196.4	37,100	73.3	193.8	34,400	80
85	68.1	195.5	32,500	69.9	194.3	33,600	71.8	191.7	33,400	85
90	66.5	193.3	29,500	68.4	192.1	30,600	70.2	189.4	31,600	90
95	65.0	191.0	26,900	66.8	189.7	27,900	68.6	187.0	28,800	95
100	63.4	188.4	24,600	65.2	187.1	25,500	67.0	184.4	26,300	100
105	61.8	185.7	22,500	63.6	184.4	23,300	65.4	181.6	24,100	105
110	60.2	182.8	20,600	62.0	181.5	21,400	63.7	178.6	22,100	110
115	58.5	179.7	18,900	60.3	178.3	19,600	62.0	175.5	20,300	115
120	56.8	176.4	17,400	58.6	175.0	18,000	60.3	172.1	18,700	120
125	55.1	172.8	16,000	56.9	171.5	16,600	58.5	168.4	17,200	125
130	53.4	169.1	14,700	55.1	167.7	15,200	56.7	164.6	15,800	130
135	51.6	165.1	13,500	53.3	163.6	14,000	54.9	160.5	14,500	135
140	49.7	160.8	12,400	51.4	159.3	12,800	53.0	156.0	13,300	140
145	47.8	156.2	11,300	49.5	154.7	11,800	51.0	151.3	12,200	145
150	45.8	151.4	10,400	47.5	149.8	10,800	49.0	146.3	11,100	150
155	43.8	146.1	9,500	45.5	144.5	9,900	46.9	140.8	10,200	155
160	41.7	140.5	8,600	43.3	138.7	9,000	44.7	135.0	9,300	160
164	39.9	135.6	8,000	41.5	133.8	8,300	42.8	129.9	8,600	164
165	39.5	134.4	7,800	41.1	132.6	8,200				165
170	37.1	127.8	7,100	38.7	125.9	7,400				170
175	34.7	120.6	6,400	36.2	118.5	6,700				175
180	32.0	112.7	5,700	33.5	110.4	6,000				180
183	30.3	107.3	5,400	31.8	105.1	5,600				183
185	29.2	103.8	5,100							185
190	26.0	93.8	4,500							190



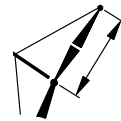
	5°			15°			25°			
 ft	 o	 ft	 lb	 o	 ft	 lb	 o	 ft	 lb	 ft
43	80.9	218.3	52,400							43
45	80.3	218.0	52,100							45
50	79.0	216.9	51,300	80.8	215.8	47,100				50
55	77.6	215.8	50,500	79.4	214.6	46,500				55
57	77.0	215.3	50,200	78.9	214.1	46,300	80.8	211.6	40,100	57
60	76.2	214.5	49,800	78.0	213.4	46,000	79.9	210.8	39,300	60
65	74.8	213.1	49,100	76.6	212.0	45,500	78.5	209.4	38,100	65
70	73.4	211.6	43,800	75.2	210.4	45,100	77.1	207.8	37,000	70
75	72.0	209.9	39,300	73.8	208.7	40,700	75.6	206.1	35,900	75
80	70.6	208.1	35,400	72.4	206.9	36,700	74.2	204.3	34,900	80
85	69.1	206.2	32,000	70.9	205.0	33,200	72.7	202.3	34,000	85
90	67.7	204.1	29,100	69.5	202.9	30,200	71.2	200.2	31,200	90
95	66.2	201.9	26,500	68.0	200.6	27,500	69.7	197.9	28,500	95
100	64.7	199.5	24,100	66.5	198.2	25,100	68.2	195.5	26,000	100
105	63.2	196.9	22,000	65.0	195.6	22,900	66.7	192.8	23,800	105
110	61.7	194.2	20,200	63.4	192.9	21,000	65.1	190.0	21,800	110
115	60.1	191.3	18,500	61.9	189.9	19,200	63.5	187.1	19,900	115
120	58.6	188.2	16,900	60.3	186.8	17,600	61.9	183.9	18,300	120
125	57.0	184.9	15,500	58.7	183.5	16,100	60.3	180.5	16,800	125
130	55.3	181.4	14,200	57.0	180.0	14,800	58.6	176.9	15,400	130
135	53.7	177.7	13,000	55.3	176.2	13,500	56.9	173.1	14,100	135
140	51.9	173.7	11,900	53.6	172.2	12,400	55.1	169.1	12,900	140
145	50.2	169.5	10,800	51.9	168.0	11,300	53.3	164.7	11,800	145
150	48.4	165.0	9,900	50.0	163.5	10,300	51.5	160.1	10,700	150
155	46.5	160.3	9,000	48.2	158.7	9,400	49.5	155.2	9,800	155
160	44.6	155.2	8,100	46.2	153.5	8,500	47.6	149.9	8,900	160
165	42.6	149.7	7,400	44.2	148.0	7,700	45.5	144.3	8,000	165
170	40.6	143.9	6,600	42.1	142.1	6,900	43.4	138.2	7,200	170
171	40.1	142.6	6,500	41.7	140.8	6,800	42.9	136.9	7,000	171
175	38.4	137.6	5,900	39.9	135.7	6,200				175
180	36.2	130.7	5,300	37.6	128.7	5,500				180
185	33.8	123.3	4,600	35.2	121.2	4,900				185
190	31.2	115.1	4,000	32.6	112.8	4,200				190
192				31.5	109.2	4,000				192



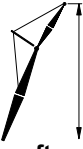
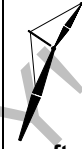
114,600 lb
+
0 lb

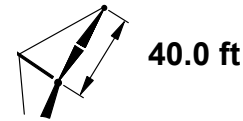
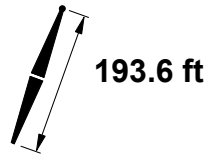
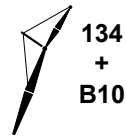


183.7 ft

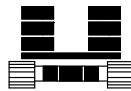
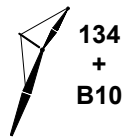


40.0 ft

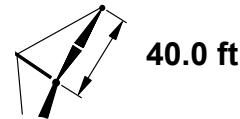
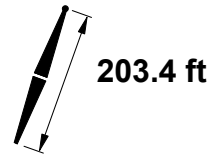
	5°			15°			25°			
 ft	 o	 ft	 lb	 o	 ft	 lb	 o	 ft	 lb	 ft
44	81.0	228.1	52,100							44
45	80.8	228.0	51,900							45
50	79.4	227.0	51,200							50
51	79.2	226.8	51,000	81.0	225.6	46,800				51
55	78.1	225.9	50,400	79.9	224.7	46,400				55
58	77.3	225.2	50,000	79.1	224.0	46,100	80.9	221.5	40,300	58
60	76.8	224.7	49,700	78.6	223.5	45,900	80.4	221.0	39,700	60
65	75.5	223.4	48,900	77.3	222.2	45,500	79.0	219.6	38,500	65
70	74.2	221.9	43,500	75.9	220.7	45,100	77.7	218.1	37,400	70
75	72.8	220.3	39,000	74.6	219.1	40,400	76.3	216.5	36,400	75
80	71.5	218.6	35,100	73.2	217.4	36,400	74.9	214.8	35,400	80
85	70.1	216.8	31,700	71.8	215.5	32,900	73.5	212.9	34,200	85
90	68.7	214.8	28,800	70.4	213.5	29,900	72.1	210.9	31,000	90
95	67.3	212.7	26,100	69.0	211.4	27,200	70.7	208.7	28,200	95
100	65.9	210.4	23,800	67.6	209.1	24,800	69.3	206.4	25,700	100
105	64.5	208.0	21,700	66.2	206.7	22,600	67.8	203.9	23,500	105
110	63.1	205.4	19,800	64.7	204.1	20,700	66.3	201.3	21,500	110
115	61.6	202.6	18,100	63.3	201.3	18,900	64.9	198.5	19,700	115
120	60.1	199.7	16,600	61.8	198.4	17,300	63.3	195.5	18,000	120
125	58.6	196.6	15,200	60.3	195.3	15,900	61.8	192.3	16,500	125
130	57.1	193.4	13,900	58.7	192.0	14,500	60.2	189.0	15,100	130
135	55.5	189.9	12,700	57.1	188.5	13,300	58.6	185.4	13,800	135
140	53.9	186.2	11,600	55.5	184.8	12,100	57.0	181.7	12,600	140
145	52.3	182.3	10,500	53.9	180.8	11,000	55.3	177.7	11,500	145
150	50.6	178.2	9,600	52.2	176.7	10,100	53.6	173.4	10,500	150
155	48.9	173.8	8,700	50.5	172.2	9,100	51.9	168.9	9,500	155
160	47.2	169.1	7,800	48.7	167.5	8,300	50.1	164.1	8,600	160
165	45.4	164.2	7,100	46.9	162.5	7,400	48.2	158.9	7,800	165
170	43.5	158.9	6,300	45.0	157.2	6,700	46.3	153.5	7,000	170
175	41.6	153.2	5,600	43.1	151.5	6,000	44.2	147.6	6,200	175
178	40.4	149.6	5,200	41.8	147.8	5,500	43.0	143.9	5,800	178
180	39.6	147.2	5,000	41.0	145.3	5,300				180
185	37.4	140.6	4,300	38.9	138.7	4,600				185
190				36.6	131.5	4,000				190



	5°			15°			25°			
46	80.9	237.8	51,400							46
50	79.9	237.0	50,900							50
53	79.1	236.4	50,500	80.8	235.2	46,500				53
55	78.6	236.0	50,200	80.3	234.8	46,300				55
60	77.4	234.8	49,600	79.1	233.7	45,800	80.8	231.1	40,100	60
65	76.1	233.6	48,500	77.8	232.4	45,400	79.5	229.8	39,000	65
70	74.8	232.2	43,100	76.5	231.0	44,800	78.2	228.4	37,900	70
75	73.6	230.7	38,600	75.2	229.5	40,100	76.9	226.8	36,800	75
80	72.3	229.0	34,700	73.9	227.8	36,100	75.6	225.2	35,900	80
85	71.0	227.3	31,300	72.6	226.0	32,600	74.3	223.4	33,800	85
90	69.7	225.4	28,300	71.3	224.1	29,500	72.9	221.5	30,700	90
95	68.3	223.4	25,700	70.0	222.1	26,800	71.6	219.4	27,900	95
100	67.0	221.2	23,400	68.6	219.9	24,400	70.2	217.2	25,400	100
105	65.7	218.9	21,300	67.3	217.6	22,200	68.8	214.9	23,100	105
110	64.3	216.5	19,400	65.9	215.2	20,300	67.5	212.4	21,100	110
115	62.9	213.9	17,700	64.5	212.6	18,500	66.0	209.7	19,300	115
120	61.5	211.1	16,100	63.1	209.8	16,900	64.6	206.9	17,600	120
125	60.1	208.2	14,700	61.7	206.9	15,400	63.2	203.9	16,100	125
130	58.6	205.1	13,400	60.2	203.8	14,100	61.7	200.8	14,700	130
135	57.2	201.9	12,200	58.7	200.5	12,800	60.2	197.5	13,400	135
140	55.7	198.4	11,100	57.2	197.0	11,700	58.7	193.9	12,200	140
145	54.2	194.8	10,000	55.7	193.3	10,600	57.1	190.2	11,100	145
150	52.6	190.9	9,100	54.1	189.4	9,600	55.5	186.2	10,100	150
155	51.0	186.8	8,200	52.6	185.3	8,700	53.9	182.1	9,100	155
160	49.4	182.5	7,400	50.9	181.0	7,800	52.2	177.6	8,200	160
165	47.7	178.0	6,600	49.2	176.4	7,000	50.5	172.9	7,400	165
170	46.0	173.1	5,800	47.5	171.5	6,200	48.8	167.9	6,600	170
175	44.3	168.0	5,100	45.7	166.3	5,500	46.9	162.6	5,800	175
180	42.5	162.5	4,500	43.9	160.7	4,800	45.0	156.9	5,100	180
185				42.0	154.8	4,200	43.1	150.8	4,400	185



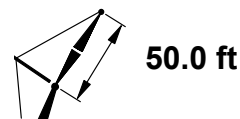
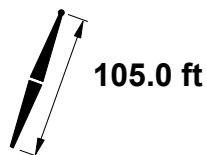
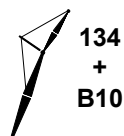
114,600 lb
+
0 lb

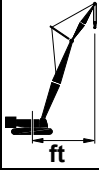
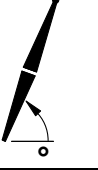
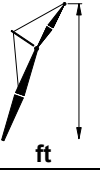
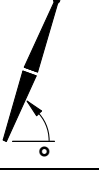
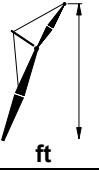
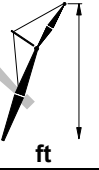


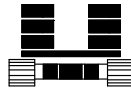
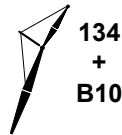
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
47	81.0	247.6	51,100							47
50	80.3	247.1	50,600							50
54	79.4	246.3	50,100	81.0	245.1	46,100				54
55	79.1	246.1	50,000	80.7	244.9	46,000				55
60	77.9	245.0	49,300	79.5	243.8	45,600				60
61	77.7	244.7	49,100	79.3	243.5	45,500	80.9	240.9	40,300	61
65	76.7	243.7	48,100	78.3	242.5	45,200	80.0	239.9	39,400	65
70	75.5	242.4	42,700	77.1	241.2	44,500	78.7	238.6	38,300	70
75	74.3	241.0	38,200	75.9	239.7	39,800	77.5	237.1	37,300	75
80	73.0	239.4	34,300	74.6	238.2	35,700	76.2	235.5	36,300	80
85	71.8	237.7	30,900	73.4	236.5	32,200	75.0	233.8	33,500	85
90	70.5	235.9	27,900	72.1	234.7	29,100	73.7	232.0	30,400	90
95	69.3	234.0	25,300	70.8	232.7	26,400	72.4	230.0	27,600	95
100	68.0	231.9	22,900	69.6	230.7	24,000	71.1	227.9	25,100	100
105	66.7	229.8	20,800	68.3	228.5	21,800	69.8	225.7	22,800	105
110	65.4	227.4	19,000	67.0	226.1	19,900	68.5	223.3	20,800	110
115	64.1	225.0	17,300	65.6	223.7	18,100	67.1	220.8	19,000	115
120	62.8	222.4	15,700	64.3	221.0	16,500	65.8	218.2	17,300	120
125	61.4	219.6	14,300	63.0	218.3	15,000	64.4	215.4	15,800	125
130	60.1	216.7	13,000	61.6	215.3	13,700	63.0	212.4	14,400	130
135	58.7	213.6	11,800	60.2	212.2	12,400	61.6	209.2	13,100	135
140	57.3	210.4	10,700	58.8	209.0	11,300	60.2	205.9	11,900	140
145	55.8	206.9	9,600	57.3	205.5	10,200	58.7	202.4	10,800	145
150	54.4	203.3	8,700	55.9	201.9	9,200	57.2	198.7	9,700	150
155	52.9	199.5	7,800	54.4	198.0	8,300	55.7	194.8	8,800	155
160	51.4	195.5	6,900	52.9	194.0	7,400	54.1	190.7	7,900	160
165	49.9	191.2	6,100	51.3	189.7	6,600	52.6	186.3	7,000	165
170	48.3	186.8	5,400	49.7	185.2	5,800	50.9	181.7	6,200	170
175	46.6	182.0	4,700	48.1	180.4	5,100	49.3	176.8	5,500	175
180	45.0	177.0	4,100	46.4	175.3	4,400	47.5	171.6	4,800	180
185							45.8	166.1	4,100	185

MLC200 S-1

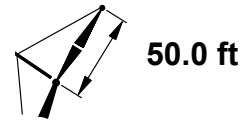
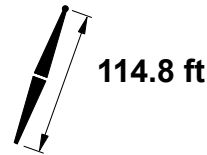
ASME B30.5



	5°			15°			25°			
 ft	 o	 ft	 lb	 o	 ft	 lb	 o	 ft	 lb	 ft
35	80.7	159.9	45,500							35
40	78.8	158.8	44,400							40
43	77.6	158.1	43,800	80.9	156.9	40,300				43
45	76.9	157.6	43,300	80.1	156.4	39,900				45
50	75.0	156.2	42,300	78.2	154.9	39,200				50
52	74.2	155.5	41,900	77.4	154.3	38,800	80.7	151.6	32,400	52
55	73.0	154.5	41,300	76.2	153.3	38,300	79.5	150.6	31,400	55
60	71.0	152.7	40,400	74.2	151.5	37,500	77.5	148.8	29,900	60
65	69.0	150.7	39,600	72.2	149.5	36,700	75.4	146.7	28,600	65
70	67.0	148.5	38,700	70.2	147.3	36,000	73.3	144.4	27,400	70
75	65.0	146.1	37,800	68.1	144.8	35,000	71.2	141.9	26,300	75
80	62.9	143.5	36,900	66.0	142.1	33,300	69.0	139.2	25,400	80
85	60.7	140.6	35,500	63.8	139.2	31,800	66.8	136.2	24,400	85
90	58.6	137.4	32,500	61.6	136.0	30,400	64.6	133.0	23,600	90
95	56.3	134.0	29,900	59.3	132.6	29,200	62.3	129.4	22,800	95
100	54.0	130.3	27,600	57.0	128.8	28,000	59.9	125.6	22,100	100
105	51.6	126.2	25,500	54.6	124.7	26,200	57.4	121.3	21,500	105
110	49.2	121.8	23,700	52.1	120.2	24,300	54.8	116.7	20,900	110
115	46.6	117.0	22,000	49.5	115.3	22,500	52.1	111.7	20,400	115
120	43.9	111.7	20,400	46.7	110.0	20,900	49.3	106.1	19,900	120
125	41.1	105.9	19,000	43.9	104.0	19,400	46.2	99.9	19,500	125
130	38.0	99.4	17,700	40.8	97.4	18,100	43.0	93.0	18,400	130
135	34.8	92.1	16,500	37.4	90.0	16,800				135
140	31.2	83.9	15,300	33.7	81.5	15,600				140
143	28.8	78.1	14,700	31.3	75.7	14,900				143
145	27.2	74.2	14,300							145
150	22.4	62.4	13,300							150
151	21.3	59.6	13,100							151



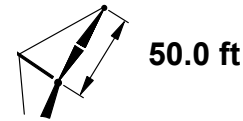
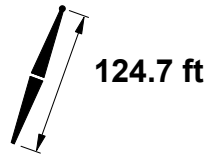
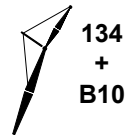
114,600 lb
+
0 lb

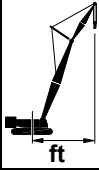
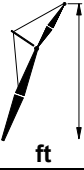
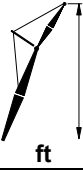
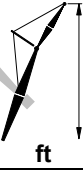


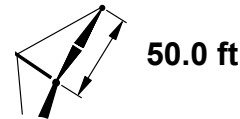
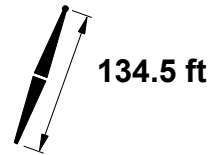
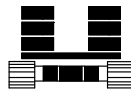
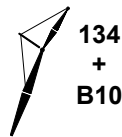
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
36	80.9	169.7	45,500							36
40	79.5	168.9	44,600							40
45	77.7	167.7	43,600	80.7	166.5	40,000				45
50	75.9	166.4	42,600	78.9	165.2	39,300				50
53	74.8	165.5	42,000	77.8	164.2	38,900	80.9	161.5	32,500	53
55	74.1	164.9	41,700	77.1	163.6	38,600	80.2	160.9	31,900	55
60	72.2	163.2	40,800	75.2	162.0	37,800	78.3	159.2	30,500	60
65	70.4	161.4	40,000	73.3	160.1	37,000	76.4	157.3	29,200	65
70	68.5	159.3	39,200	71.4	158.0	36,300	74.4	155.2	28,000	70
75	66.6	157.1	38,400	69.5	155.7	35,700	72.5	152.8	27,000	75
80	64.6	154.6	37,500	67.6	153.3	34,600	70.5	150.3	26,000	80
85	62.7	151.9	35,000	65.6	150.6	33,000	68.4	147.6	25,100	85
90	60.7	149.1	32,000	63.5	147.7	31,600	66.4	144.6	24,200	90
95	58.6	145.9	29,400	61.5	144.5	30,300	64.2	141.3	23,500	95
100	56.5	142.5	27,100	59.3	141.1	27,900	62.1	137.8	22,800	100
105	54.4	138.8	25,000	57.2	137.3	25,800	59.8	134.0	22,200	105
110	52.1	134.9	23,200	54.9	133.3	23,900	57.5	129.9	21,500	110
115	49.8	130.6	21,500	52.6	128.9	22,100	55.1	125.4	21,000	115
120	47.5	125.9	19,900	50.2	124.2	20,500	52.6	120.5	20,500	120
125	45.0	120.8	18,500	47.7	119.0	19,000	50.0	115.2	19,500	125
130	42.4	115.2	17,200	45.0	113.4	17,700	47.3	109.3	18,100	130
135	39.6	109.1	16,000	42.2	107.1	16,400	44.4	102.8	16,800	135
137	38.4	106.4	15,500	41.0	104.4	15,900	43.1	100.0	16,300	137
140	36.7	102.3	14,900	39.2	100.2	15,200				140
145	33.5	94.7	13,800	36.0	92.4	14,100				145
150	30.0	86.1	12,800	32.4	83.5	13,100				150
151	29.3	84.1	12,700	31.6	81.6	12,900				151
155	26.1	76.0	11,900							155
160	21.5	63.7	11,000							160

MLC200 S-1

ASME B30.5



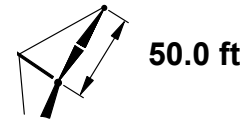
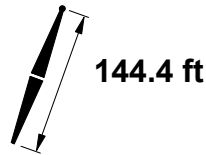
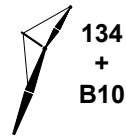
	5°			15°			25°			
 ft	 o	 ft	 lb	 o	 ft	 lb	 o	 ft	 lb	 ft
38	80.7	179.4	45,200							38
40	80.1	179.0	44,800							40
45	78.4	177.9	43,800							45
46	78.0	177.6	43,600	80.9	176.4	40,000				46
50	76.7	176.6	42,900	79.5	175.3	39,500				50
55	75.0	175.2	42,000	77.8	173.9	38,800	80.7	171.1	32,400	55
60	73.3	173.6	41,100	76.1	172.3	38,100	79.0	169.5	31,000	60
65	71.5	171.9	40,300	74.3	170.6	37,300	77.2	167.7	29,700	65
70	69.8	170.0	39,500	72.6	168.6	36,700	75.4	165.8	28,600	70
75	68.0	167.9	38,800	70.8	166.5	36,100	73.6	163.6	27,500	75
80	66.2	165.6	38,000	69.0	164.2	35,400	71.7	161.2	26,500	80
85	64.4	163.1	34,600	67.1	161.7	34,200	69.8	158.7	25,600	85
90	62.5	160.4	31,600	65.2	159.0	32,700	67.9	155.9	24,800	90
95	60.6	157.5	29,000	63.3	156.1	30,000	65.9	153.0	24,100	95
100	58.7	154.4	26,700	61.4	152.9	27,600	64.0	149.7	23,400	100
105	56.7	151.0	24,600	59.4	149.5	25,500	61.9	146.2	22,700	105
110	54.7	147.4	22,800	57.3	145.9	23,500	59.8	142.5	22,200	110
115	52.6	143.5	21,100	55.2	141.9	21,800	57.6	138.4	21,600	115
120	50.4	139.3	19,500	53.0	137.6	20,200	55.4	134.0	20,700	120
125	48.2	134.7	18,100	50.8	133.0	18,700	53.1	129.3	19,200	125
130	45.9	129.8	16,800	48.4	128.0	17,300	50.7	124.1	17,800	130
135	43.5	124.4	15,600	46.0	122.6	16,100	48.2	118.5	16,500	135
140	41.0	118.6	14,500	43.4	116.7	14,900	45.5	112.3	15,300	140
145	38.3	112.2	13,400	40.7	110.1	13,800	42.7	105.5	14,100	145
150	35.5	105.1	12,500	37.8	102.9	12,800				150
155	32.4	97.2	11,600	34.7	94.8	11,900				155
160	29.0	88.2	10,700	31.2	85.5	10,900				160
165	25.2	77.7	9,900							165
169	21.7	67.7	9,300							169

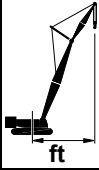
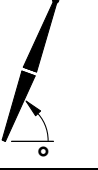
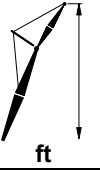
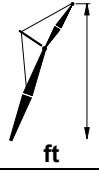
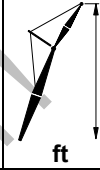


	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
39	80.9	189.2	45,000							39
40	80.6	189.0	44,800							40
45	79.0	188.0	43,900							45
48	78.1	187.3	43,400	80.8	186.0	39,800				48
50	77.4	186.8	43,000	80.1	185.5	39,500				50
55	75.8	185.4	42,200	78.5	184.1	38,900				55
56	75.5	185.1	42,000	78.2	183.8	38,800	80.9	181.0	32,500	56
60	74.2	184.0	41,400	76.9	182.6	38,300	79.6	179.8	31,400	60
65	72.6	182.3	40,600	75.2	181.0	37,600	77.9	178.1	30,200	65
70	70.9	180.5	39,900	73.6	179.2	37,000	76.2	176.3	29,100	70
75	69.2	178.6	39,100	71.9	177.2	36,300	74.5	174.2	28,100	75
80	67.5	176.4	37,500	70.2	175.0	35,800	72.8	172.0	27,100	80
85	65.8	174.1	34,100	68.4	172.7	35,200	71.0	169.7	26,200	85
90	64.1	171.6	31,200	66.7	170.2	32,300	69.2	167.1	25,400	90
95	62.3	168.9	28,600	64.9	167.5	29,600	67.4	164.3	24,700	95
100	60.5	166.0	26,200	63.1	164.5	27,200	65.6	161.3	23,900	100
105	58.7	162.9	24,200	61.3	161.4	25,000	63.7	158.1	23,300	105
110	56.8	159.5	22,300	59.4	158.0	23,100	61.8	154.7	22,700	110
115	54.9	156.0	20,600	57.4	154.4	21,300	59.8	151.0	22,000	115
120	53.0	152.1	19,000	55.4	150.5	19,700	57.8	147.0	20,400	120
125	50.9	148.0	17,600	53.4	146.3	18,200	55.7	142.7	18,800	125
130	48.9	143.5	16,300	51.3	141.8	16,900	53.5	138.0	17,400	130
135	46.7	138.7	15,100	49.1	137.0	15,600	51.3	133.0	16,100	135
140	44.5	133.6	14,000	46.9	131.7	14,500	48.9	127.6	14,900	140
145	42.1	128.0	12,900	44.5	126.0	13,400	46.5	121.7	13,800	145
150	39.7	121.9	12,000	42.0	119.8	12,400	43.9	115.3	12,700	150
152	38.7	119.2	11,600	40.9	117.1	12,000	42.8	112.5	12,300	152
155	37.1	115.2	11,100	39.4	113.0	11,400				155
160	34.3	107.8	10,200	36.5	105.5	10,500				160
165	31.4	99.6	9,400	33.5	97.1	9,700				165
168	29.4	94.0	9,000	31.5	91.4	9,200				168
170	28.1	90.3	8,700							170
175	24.3	79.4	8,000							175
179	20.9	69.0	7,400							179

MLC200 S-1

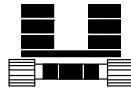
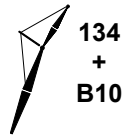
ASME B30.5



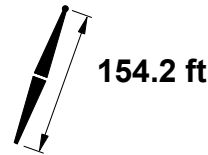
	5°			15°			25°			
										
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
41	80.8	198.8	44,600							41
45	79.6	198.0	44,000							45
49	78.4	197.1	43,300	80.9	195.8	39,700				49
50	78.1	196.9	43,100	80.6	195.6	39,600				50
55	76.6	195.7	42,300	79.1	194.3	39,000				55
58	75.6	194.8	41,900	78.2	193.5	38,700	80.8	190.6	32,400	58
60	75.0	194.2	41,600	77.6	192.9	38,400	80.2	190.0	31,900	60
65	73.5	192.7	40,800	76.0	191.4	37,800	78.6	188.4	30,700	65
70	71.9	191.0	40,100	74.4	189.6	37,200	77.0	186.7	29,600	70
75	70.3	189.1	39,400	72.9	187.8	36,600	75.4	184.8	28,600	75
80	68.8	187.1	37,200	71.3	185.7	36,000	73.8	182.7	27,600	80
85	67.1	185.0	33,800	69.6	183.6	35,100	72.1	180.5	26,700	85
90	65.5	182.6	30,900	68.0	181.2	32,000	70.4	178.1	26,000	90
95	63.9	180.1	28,300	66.3	178.6	29,300	68.7	175.5	25,200	95
100	62.2	177.4	25,900	64.6	175.9	26,900	67.0	172.7	24,500	100
105	60.5	174.5	23,900	62.9	173.0	24,800	65.3	169.7	23,800	105
110	58.7	171.4	22,000	61.2	169.8	22,800	63.5	166.5	23,200	110
115	57.0	168.0	20,300	59.4	166.5	21,100	61.6	163.1	21,800	115
120	55.2	164.5	18,700	57.5	162.9	19,500	59.8	159.4	20,200	120
125	53.3	160.7	17,300	55.7	159.1	18,000	57.9	155.5	18,600	125
130	51.4	156.6	16,000	53.7	155.0	16,600	55.9	151.3	17,200	130
135	49.5	152.3	14,800	51.8	150.5	15,400	53.9	146.8	15,900	135
140	47.4	147.6	13,700	49.7	145.8	14,200	51.8	141.9	14,700	140
145	45.3	142.6	12,700	47.6	140.7	13,200	49.6	136.7	13,600	145
150	43.2	137.2	11,700	45.4	135.3	12,200	47.3	131.0	12,500	150
155	40.9	131.4	10,800	43.1	129.3	11,200	44.9	124.9	11,600	155
159	39.0	126.3	10,100	41.2	124.2	10,500	42.9	119.5	10,800	159
160	38.5	125.0	10,000	40.7	122.9	10,300				160
165	36.0	118.1	9,200	38.1	115.8	9,500				165
170	33.3	110.4	8,400	35.3	108.0	8,700				170
175	30.4	101.9	7,700	32.4	99.2	8,000				175
176	29.7	100.0	7,600	31.7	97.3	7,800				176
180	27.2	92.2	7,000							180
185	23.5	80.9	6,400							185
188	21.0	73.0	6,000							188

MLC200 S-1

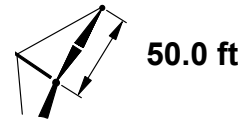
ASME B30.5



114,600 lb
+
0 lb

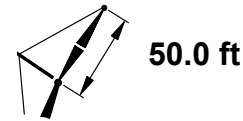
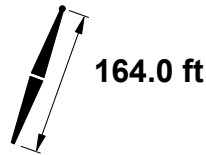
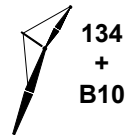


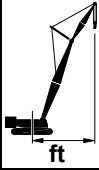
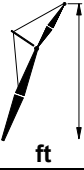
154.2 ft

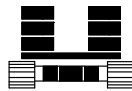
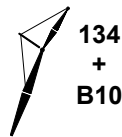


50.0 ft

	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
42	81.0	208.7	44,500							42
45	80.1	208.1	44,000							45
50	78.7	207.0	43,200							50
51	78.4	206.8	43,000	80.8	205.4	39,500				51
55	77.2	205.8	42,400	79.7	204.5	39,000				55
59	76.1	204.7	41,800	78.5	203.4	38,600	81.0	200.5	32,500	59
60	75.8	204.5	41,700	78.2	203.1	38,500	80.7	200.2	32,300	60
65	74.3	203.0	41,000	76.7	201.7	38,000	79.2	198.7	31,100	65
70	72.8	201.4	40,300	75.2	200.0	37,400	77.7	197.1	30,000	70
75	71.3	199.7	39,700	73.7	198.3	36,800	76.1	195.3	29,000	75
80	69.8	197.8	36,800	72.2	196.4	36,300	74.6	193.3	28,100	80
85	68.3	195.7	33,400	70.7	194.3	34,700	73.1	191.2	27,200	85
90	66.8	193.5	30,400	69.1	192.1	31,600	71.5	188.9	26,400	90
95	65.2	191.1	27,800	67.6	189.7	28,900	69.9	186.5	25,700	95
100	63.7	188.6	25,500	66.0	187.1	26,500	68.3	183.9	25,000	100
105	62.1	185.9	23,400	64.4	184.4	24,400	66.6	181.1	24,300	105
110	60.4	182.9	21,500	62.7	181.4	22,400	65.0	178.1	23,300	110
115	58.8	179.9	19,800	61.1	178.3	20,600	63.3	174.9	21,500	115
120	57.1	176.5	18,200	59.4	175.0	19,000	61.5	171.5	19,800	120
125	55.4	173.0	16,800	57.6	171.4	17,600	59.8	167.9	18,300	125
130	53.6	169.3	15,500	55.9	167.6	16,200	57.9	164.0	16,800	130
135	51.8	165.3	14,300	54.0	163.6	15,000	56.1	159.9	15,500	135
140	50.0	161.0	13,200	52.2	159.3	13,800	54.2	155.5	14,300	140
145	48.1	156.4	12,200	50.3	154.6	12,700	52.2	150.7	13,200	145
150	46.1	151.6	11,200	48.3	149.7	11,700	50.1	145.6	12,200	150
155	44.1	146.3	10,300	46.2	144.4	10,800	48.0	140.2	11,200	155
160	42.0	140.7	9,500	44.1	138.7	9,900	45.8	134.3	10,300	160
165	39.8	134.6	8,700	41.8	132.5	9,100	43.5	127.9	9,400	165
166	39.3	133.3	8,500	41.3	131.2	8,900	43.0	126.5	9,200	166
170	37.4	128.0	7,900	39.5	125.8	8,300				170
175	35.0	120.9	7,200	37.0	118.5	7,500				175
180	32.4	112.9	6,600	34.3	110.4	6,800				180
185	29.5	104.1	5,900	31.3	101.3	6,200				185
190	26.4	94.1	5,300							190
195	22.8	82.4	4,800							195
197	21.2	77.1	4,500							197



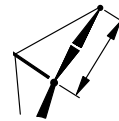
	5°			15°			25°			
 ft	 o	 ft	 lb	 o	 ft	 lb	 o	 ft	 lb	 ft
44	80.8	218.3	44,100							44
45	80.6	218.1	43,900							45
50	79.2	217.1	43,100							50
52	78.6	216.6	42,800	81.0	215.3	39,300				52
55	77.8	215.9	42,400	80.1	214.6	39,000				55
60	76.4	214.7	41,700	78.8	213.3	38,500				60
61	76.2	214.4	41,600	78.5	213.0	38,400	80.8	210.1	32,400	61
65	75.0	213.3	41,000	77.4	211.9	38,100	79.7	208.9	31,500	65
70	73.6	211.8	40,400	75.9	210.4	37,500	78.3	207.4	30,500	70
75	72.2	210.1	39,800	74.5	208.7	37,000	76.8	205.7	29,400	75
80	70.8	208.3	36,400	73.1	206.9	36,500	75.4	203.8	28,600	80
85	69.4	206.4	33,000	71.6	204.9	34,400	73.9	201.8	27,700	85
90	67.9	204.3	30,000	70.2	202.8	31,300	72.4	199.7	26,900	90
95	66.5	202.0	27,400	68.7	200.6	28,600	70.9	197.4	26,100	95
100	65.0	199.6	25,100	67.2	198.1	26,200	69.4	194.9	25,500	100
105	63.5	197.1	23,000	65.7	195.6	24,000	67.8	192.3	24,800	105
110	61.9	194.3	21,100	64.1	192.8	22,100	66.3	189.5	23,000	110
115	60.4	191.4	19,400	62.6	189.9	20,300	64.7	186.5	21,100	115
120	58.8	188.3	17,800	61.0	186.8	18,700	63.1	183.3	19,500	120
125	57.2	185.0	16,400	59.4	183.4	17,200	61.4	180.0	17,900	125
130	55.6	181.6	15,100	57.7	179.9	15,800	59.7	176.4	16,500	130
135	53.9	177.8	13,900	56.0	176.2	14,600	58.0	172.5	15,200	135
140	52.2	173.9	12,800	54.3	172.2	13,400	56.3	168.5	14,000	140
145	50.5	169.7	11,800	52.6	167.9	12,300	54.4	164.1	12,900	145
150	48.7	165.2	10,800	50.7	163.4	11,300	52.6	159.5	11,800	150
155	46.8	160.5	9,900	48.9	158.6	10,400	50.7	154.5	10,900	155
160	44.9	155.4	9,100	46.9	153.5	9,500	48.7	149.2	9,900	160
165	42.9	149.9	8,300	44.9	147.9	8,700	46.6	143.6	9,100	165
170	40.9	144.1	7,500	42.8	142.0	7,900	44.4	137.4	8,300	170
174	39.1	139.0	7,000	41.1	136.9	7,300	42.6	132.2	7,600	174
175	38.7	137.8	6,800	40.6	135.6	7,200				175
180	36.4	131.0	6,200	38.3	128.7	6,500				180
185	34.0	123.5	5,500	35.9	121.1	5,800				185
190	31.5	115.4	5,000	33.3	112.7	5,200				190
193	29.8	109.9	4,600	31.6	107.2	4,800				193
195	28.7	106.2	4,400							195



114,600 lb
+
0 lb



173.9 ft

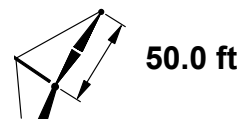
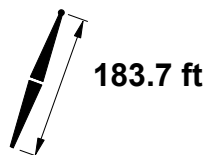
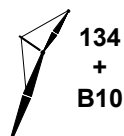


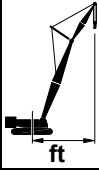
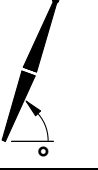
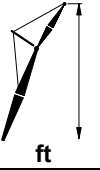
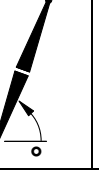
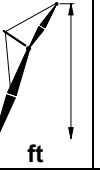
50.0 ft

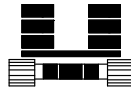
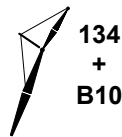
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
45	81.0	228.1	43,800							45
50	79.7	227.1	43,100							50
54	78.6	226.3	42,500	80.9	224.9	39,100				54
55	78.4	226.1	42,400	80.6	224.7	39,000				55
60	77.0	224.9	41,700	79.3	223.5	38,500				60
62	76.5	224.3	41,500	78.7	222.9	38,300	81.0	219.9	32,500	62
65	75.7	223.5	41,100	77.9	222.1	38,100	80.2	219.1	31,800	65
70	74.4	222.1	40,500	76.6	220.7	37,600	78.8	217.6	30,800	70
75	73.0	220.5	39,800	75.2	219.1	37,100	77.4	216.0	29,800	75
80	71.7	218.8	35,900	73.9	217.4	36,600	76.1	214.3	28,900	80
85	70.3	216.9	32,500	72.5	215.5	34,000	74.7	212.4	28,100	85
90	68.9	214.9	29,600	71.1	213.5	30,900	73.3	210.4	27,300	90
95	67.6	212.8	26,900	69.7	211.4	28,200	71.8	208.2	26,600	95
100	66.2	210.5	24,600	68.3	209.1	25,800	70.4	205.9	25,900	100
105	64.7	208.1	22,500	66.9	206.6	23,600	68.9	203.4	24,700	105
110	63.3	205.5	20,600	65.4	204.0	21,600	67.5	200.7	22,600	110
115	61.8	202.8	18,900	63.9	201.3	19,900	66.0	197.9	20,800	115
120	60.3	199.9	17,300	62.4	198.3	18,200	64.4	194.9	19,100	120
125	58.8	196.8	15,900	60.9	195.2	16,800	62.9	191.8	17,600	125
130	57.3	193.5	14,600	59.4	191.9	15,400	61.3	188.4	16,100	130
135	55.8	190.1	13,400	57.8	188.4	14,100	59.7	184.8	14,800	135
140	54.2	186.4	12,300	56.2	184.7	13,000	58.1	181.1	13,600	140
145	52.5	182.5	11,300	54.6	180.8	11,900	56.4	177.0	12,500	145
150	50.9	178.4	10,300	52.9	176.6	10,900	54.7	172.8	11,400	150
155	49.2	174.0	9,400	51.2	172.2	10,000	52.9	168.2	10,500	155
160	47.4	169.3	8,600	49.4	167.5	9,100	51.1	163.4	9,500	160
165	45.6	164.4	7,800	47.6	162.5	8,300	49.2	158.2	8,700	165
170	43.8	159.1	7,000	45.7	157.1	7,500	47.3	152.7	7,900	170
175	41.8	153.4	6,300	43.7	151.4	6,700	45.3	146.8	7,100	175
180	39.8	147.4	5,700	41.7	145.2	6,100	43.2	140.5	6,400	180
181	39.4	146.1	5,600	41.3	143.9	5,900	42.7	139.1	6,200	181
185	37.7	140.9	5,100	39.5	138.6	5,400				185
190	35.5	133.8	4,500	37.3	131.4	4,800				190
195				34.9	123.6	4,200				195

MLC200 S-1

ASME B30.5



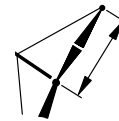
	5°			15°			25°			
 ft	 o	 ft	 lb	 o	 ft	 lb	 o	 ft	 lb	 ft
47	80.9	237.7	43,400							47
50	80.1	237.2	43,000							50
55	78.9	236.1	42,300	81.0	234.8	38,900				55
60	77.6	235.0	41,700	79.7	233.6	38,500				60
64	76.6	234.0	41,200	78.7	232.6	38,100	80.9	229.5	32,400	64
65	76.3	233.7	41,100	78.5	232.3	38,000	80.6	229.3	32,200	65
70	75.1	232.3	40,500	77.2	230.9	37,600	79.3	227.9	31,100	70
75	73.8	230.8	39,500	75.9	229.4	37,200	78.0	226.3	30,200	75
80	72.5	229.2	35,600	74.6	227.8	36,700	76.7	224.7	29,300	80
85	71.2	227.4	32,200	73.3	226.0	33,700	75.4	222.9	28,500	85
90	69.9	225.5	29,200	72.0	224.1	30,600	74.0	220.9	27,700	90
95	68.6	223.5	26,600	70.6	222.1	27,900	72.7	218.9	27,000	95
100	67.2	221.4	24,300	69.3	219.9	25,500	71.3	216.7	26,300	100
105	65.9	219.1	22,200	67.9	217.6	23,300	69.9	214.3	24,400	105
110	64.5	216.6	20,300	66.5	215.1	21,300	68.5	211.8	22,400	110
115	63.1	214.0	18,600	65.2	212.5	19,600	67.1	209.2	20,500	115
120	61.7	211.3	17,000	63.7	209.7	17,900	65.7	206.3	18,800	120
125	60.3	208.4	15,600	62.3	206.8	16,500	64.2	203.4	17,300	125
130	58.9	205.3	14,300	60.9	203.7	15,100	62.7	200.2	15,900	130
135	57.4	202.0	13,100	59.4	200.4	13,800	61.2	196.9	14,600	135
140	55.9	198.6	12,000	57.9	196.9	12,700	59.7	193.3	13,400	140
145	54.4	195.0	10,900	56.4	193.3	11,600	58.2	189.6	12,200	145
150	52.9	191.1	10,000	54.8	189.4	10,600	56.6	185.6	11,200	150
155	51.3	187.0	9,100	53.2	185.3	9,700	54.9	181.4	10,200	155
160	49.7	182.7	8,200	51.6	180.9	8,800	53.3	176.9	9,300	160
165	48.0	178.2	7,500	49.9	176.3	8,000	51.5	172.2	8,400	165
170	46.3	173.3	6,700	48.2	171.4	7,200	49.8	167.2	7,600	170
175	44.5	168.2	6,000	46.4	166.2	6,500	47.9	161.8	6,900	175
180	42.7	162.7	5,400	44.5	160.6	5,800	46.0	156.1	6,100	180
185	40.8	156.8	4,700	42.6	154.7	5,100	44.1	150.0	5,400	185
188	39.6	153.1	4,400	41.4	150.9	4,800	42.8	146.1	5,000	188
190	38.9	150.6	4,200	40.6	148.4	4,500				190



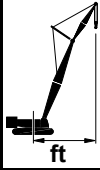
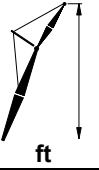
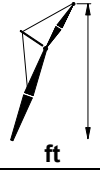
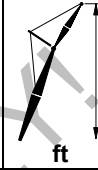
114,600 lb
+
0 lb



193.6 ft

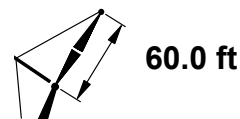
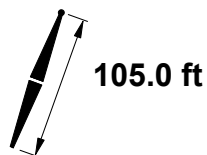
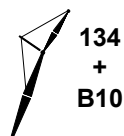


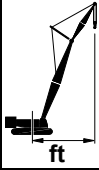
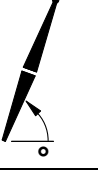
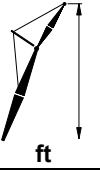
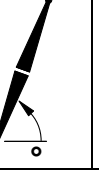
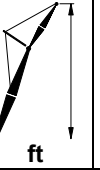
50.0 ft

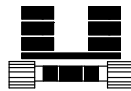
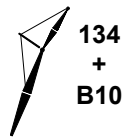
	5°			15°			25°			
 ft	 o	 ft	 lb	 o	 ft	 lb	 o	 ft	 lb	 ft
48	81.0	247.6	43,000							48
50	80.5	247.2	42,800							50
55	79.3	246.2	42,200							55
57	78.8	245.8	41,900	80.9	244.4	38,600				57
60	78.1	245.1	41,600	80.2	243.7	38,300				60
65	76.9	243.9	41,000	78.9	242.5	37,900	81.0	239.4	32,500	65
70	75.7	242.6	40,500	77.7	241.1	37,600	79.8	238.1	31,500	70
75	74.5	241.1	39,100	76.5	239.7	37,200	78.5	236.6	30,600	75
80	73.2	239.6	35,200	75.2	238.1	36,800	77.3	235.0	29,700	80
85	72.0	237.9	31,800	74.0	236.4	33,300	76.0	233.3	28,900	85
90	70.7	236.1	28,800	72.7	234.6	30,200	74.7	231.4	28,100	90
95	69.5	234.1	26,100	71.5	232.7	27,500	73.4	229.5	27,400	95
100	68.2	232.1	23,800	70.2	230.6	25,100	72.1	227.4	26,300	100
105	66.9	229.9	21,700	68.9	228.4	22,900	70.8	225.1	24,100	105
110	65.6	227.6	19,800	67.6	226.1	20,900	69.5	222.8	22,000	110
115	64.3	225.1	18,100	66.3	223.6	19,100	68.2	220.3	20,200	115
120	63.0	222.5	16,500	64.9	221.0	17,500	66.8	217.6	18,500	120
125	61.6	219.8	15,100	63.6	218.2	16,000	65.4	214.8	16,900	125
130	60.3	216.9	13,800	62.2	215.3	14,700	64.0	211.8	15,500	130
135	58.9	213.8	12,600	60.8	212.2	13,400	62.6	208.6	14,200	135
140	57.5	210.5	11,500	59.4	208.9	12,200	61.2	205.3	13,000	140
145	56.1	207.1	10,400	58.0	205.4	11,200	59.7	201.8	11,800	145
150	54.6	203.5	9,500	56.5	201.8	10,200	58.2	198.1	10,800	150
155	53.1	199.7	8,600	55.0	198.0	9,200	56.7	194.2	9,800	155
160	51.6	195.7	7,800	53.5	193.9	8,400	55.1	190.0	8,900	160
165	50.1	191.4	7,000	51.9	189.6	7,500	53.5	185.6	8,000	165
170	48.5	186.9	6,200	50.3	185.1	6,800	51.9	181.0	7,200	170
175	46.9	182.2	5,500	48.7	180.3	6,000	50.2	176.1	6,500	175
180	45.2	177.2	4,900	47.0	175.2	5,300	48.5	170.9	5,700	180
185	43.5	171.8	4,300	45.2	169.8	4,700	46.7	165.3	5,000	185
190				43.4	164.1	4,100	44.9	159.4	4,400	190

MLC200 S-1

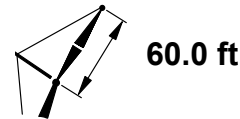
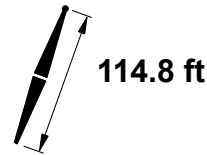
ASME B30.5



	5°			15°			25°			
 ft	 o	 ft	 lb	 o	 ft	 lb	 o	 ft	 lb	 ft
36	80.9	169.9	38,900							36
40	79.5	169.1	38,200							40
45	77.7	168.0	37,300							45
47	77.0	167.4	36,900	81.0	166.4	31,500				47
50	75.9	166.6	36,400	79.9	165.6	31,200				50
55	74.1	165.1	35,400	78.1	164.1	30,500				55
58	73.0	164.1	34,800	77.0	163.1	30,100	80.8	160.2	27,600	58
60	72.3	163.4	34,500	76.3	162.5	29,800	80.0	159.5	27,400	60
65	70.4	161.6	33,600	74.4	160.6	29,100	78.1	157.6	26,400	65
70	68.5	159.5	32,700	72.5	158.6	28,600	76.2	155.6	25,100	70
75	66.6	157.3	31,900	70.6	156.4	28,000	74.2	153.3	24,000	75
80	64.7	154.8	31,100	68.6	153.9	27,500	72.2	150.8	23,000	80
85	62.7	152.2	30,400	66.7	151.3	26,900	70.2	148.1	22,100	85
90	60.7	149.3	29,700	64.6	148.4	26,300	68.1	145.2	21,300	90
95	58.7	146.2	29,100	62.6	145.3	25,800	66.0	142.0	20,500	95
100	56.6	142.8	28,000	60.5	141.9	25,300	63.9	138.5	19,800	100
105	54.4	139.1	25,900	58.3	138.3	24,500	61.6	134.8	19,100	105
110	52.2	135.1	24,000	56.1	134.3	23,600	59.3	130.7	18,500	110
115	49.9	130.8	22,300	53.8	130.0	22,700	57.0	126.3	18,000	115
120	47.5	126.2	20,800	51.4	125.3	21,500	54.5	121.5	17,500	120
125	45.1	121.1	19,400	48.9	120.3	20,100	51.9	116.2	17,000	125
130	42.5	115.5	18,100	46.3	114.7	18,700	49.2	110.4	16,600	130
135	39.7	109.4	16,900	43.5	108.6	17,500	46.3	104.1	16,200	135
140	36.8	102.7	15,800	40.6	101.8	16,300	43.2	96.9	15,800	140
142	35.5	99.6	15,300	39.3	98.8	15,800	41.9	93.9	15,700	142
145	33.6	95.1	14,700	37.4	94.3	15,200				145
150	30.2	86.5	13,700	33.9	85.6	14,200				150
154	27.1	78.5	13,000	30.8	77.7	13,400				154
155	26.3	76.5	12,800							155
160	21.7	64.3	12,000							160
161	20.7	61.4	11,800							161



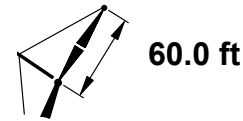
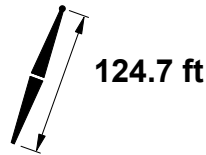
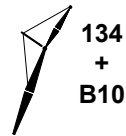
114,600 lb
+
0 lb

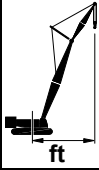
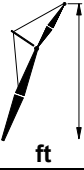


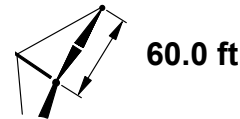
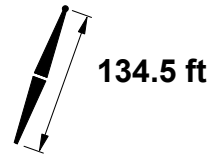
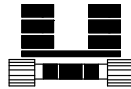
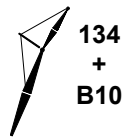
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
38	80.8	179.6	38,700							38
40	80.1	179.2	38,300							40
45	78.4	178.1	37,500							45
49	77.1	177.1	36,800	80.9	176.0	31,500				49
50	76.7	176.8	36,600	80.5	175.8	31,300				50
55	75.0	175.4	35,800	78.8	174.4	30,700				55
59	73.6	174.1	35,000	77.4	173.1	30,200	81.0	170.1	27,600	59
60	73.3	173.8	34,900	77.1	172.8	30,000	80.6	169.8	27,600	60
65	71.6	172.1	34,000	75.3	171.1	29,400	78.8	168.0	26,800	65
70	69.8	170.2	33,100	73.6	169.2	28,900	77.0	166.1	25,600	70
75	68.0	168.1	32,400	71.8	167.1	28,300	75.2	164.0	24,600	75
80	66.2	165.8	31,600	70.0	164.8	27,800	73.4	161.7	23,500	80
85	64.4	163.3	30,900	68.1	162.4	27,300	71.5	159.2	22,700	85
90	62.5	160.6	30,200	66.2	159.7	26,800	69.6	156.4	21,800	90
95	60.7	157.8	29,600	64.3	156.8	26,200	67.6	153.5	21,100	95
100	58.7	154.6	27,500	62.4	153.7	25,700	65.6	150.3	20,300	100
105	56.7	151.3	25,400	60.4	150.4	25,300	63.6	146.9	19,700	105
110	54.7	147.7	23,500	58.4	146.8	24,500	61.5	143.2	19,100	110
115	52.6	143.7	21,800	56.3	142.9	22,700	59.4	139.2	18,500	115
120	50.5	139.5	20,300	54.1	138.7	21,100	57.1	134.9	18,000	120
125	48.3	135.0	18,900	51.9	134.1	19,600	54.8	130.2	17,500	125
130	46.0	130.1	17,600	49.6	129.2	18,300	52.4	125.1	17,100	130
135	43.6	124.7	16,400	47.2	123.9	17,000	49.9	119.6	16,700	135
140	41.1	118.9	15,300	44.6	118.0	15,900	47.3	113.5	16,300	140
145	38.4	112.5	14,200	41.9	111.7	14,800	44.5	106.8	15,200	145
149	36.1	106.9	13,500	39.7	106.0	14,000	42.1	100.9	14,300	149
150	35.6	105.5	13,300	39.1	104.6	13,800				150
155	32.5	97.6	12,400	36.0	96.7	12,800				155
160	29.2	88.7	11,500	32.6	87.7	11,900				160
163	26.9	82.4	11,000	30.4	81.6	11,400				163
165	25.4	78.2	10,700							165
170	20.9	65.5	9,900							170

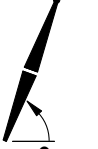
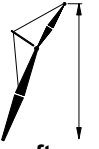
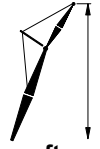
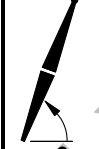
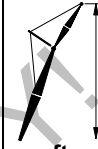
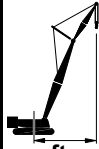
MLC200 S-1

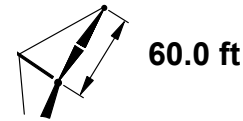
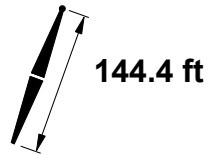
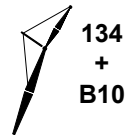
ASME B30.5

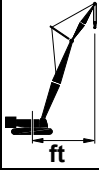
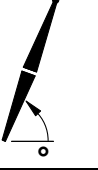
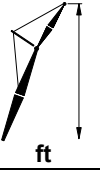
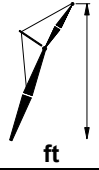
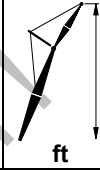


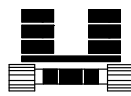
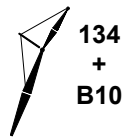
	5°			15°			25°			
 ft	 o	 ft	 lb	 o	 ft	 lb	 o	 ft	 lb	 ft
39	80.9	189.4	38,500							39
40	80.6	189.2	38,400							40
45	79.0	188.2	37,600							45
50	77.5	187.0	36,800							50
51	77.1	186.7	36,600	80.7	185.6	31,300				51
55	75.8	185.7	36,000	79.4	184.6	30,800				55
60	74.2	184.2	35,200	77.8	183.1	30,200				60
61	73.9	183.8	35,100	77.5	182.8	30,100	80.8	179.7	27,500	61
65	72.6	182.5	34,400	76.2	181.5	29,600	79.5	178.4	27,200	65
70	70.9	180.7	33,600	74.5	179.7	29,100	77.8	176.6	26,100	70
75	69.3	178.8	32,800	72.8	177.7	28,500	76.1	174.6	25,100	75
80	67.6	176.6	32,100	71.1	175.6	28,100	74.3	172.4	24,000	80
85	65.9	174.3	31,400	69.4	173.3	27,600	72.6	170.1	23,100	85
90	64.1	171.8	30,700	67.7	170.8	27,100	70.8	167.5	22,300	90
95	62.4	169.1	29,400	65.9	168.1	26,600	69.0	164.8	21,600	95
100	60.6	166.2	27,100	64.1	165.3	26,100	67.2	161.8	20,900	100
105	58.8	163.1	25,000	62.2	162.2	25,700	65.3	158.7	20,200	105
110	56.9	159.8	23,100	60.4	158.8	24,200	63.4	155.3	19,600	110
115	55.0	156.2	21,400	58.4	155.3	22,400	61.4	151.6	19,100	115
120	53.0	152.4	19,900	56.5	151.4	20,800	59.4	147.7	18,500	120
125	51.0	148.2	18,500	54.4	147.3	19,300	57.3	143.4	18,000	125
130	48.9	143.8	17,200	52.4	142.9	17,900	55.1	138.9	17,600	130
135	46.8	139.0	16,000	50.2	138.1	16,700	52.9	133.9	17,200	135
140	44.6	133.9	14,900	47.9	132.9	15,500	50.6	128.6	16,000	140
145	42.2	128.3	13,800	45.6	127.3	14,400	48.1	122.8	14,900	145
150	39.8	122.2	12,900	43.1	121.3	13,400	45.6	116.4	13,800	150
155	37.2	115.5	12,000	40.5	114.6	12,500	42.8	109.5	12,800	155
156	36.7	114.1	11,800	40.0	113.1	12,300	42.3	108.0	12,600	156
160	34.5	108.2	11,100	37.7	107.2	11,600				160
165	31.5	100.0	10,300	34.7	99.0	10,700				165
170	28.2	90.7	9,600	31.4	89.6	9,900				170
171	27.5	88.5	9,400	30.7	87.6	9,800				171
175	24.5	79.9	8,900							175
180	20.1	66.7	8,200							180



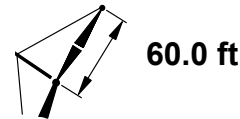
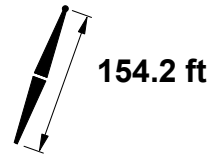
	5°			15°			25°			
										
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
41	80.8	199.0	38,300							41
45	79.6	198.2	37,700							45
50	78.1	197.1	36,900							50
52	77.5	196.6	36,600	80.9	195.5	31,300				52
55	76.6	195.9	36,200	80.0	194.7	30,900				55
60	75.1	194.5	35,500	78.4	193.3	30,400				60
62	74.4	193.8	35,200	77.8	192.7	30,200	81.0	189.6	27,500	62
65	73.5	192.9	34,700	76.9	191.8	29,800	80.1	188.6	27,300	65
70	72.0	191.2	33,900	75.3	190.1	29,300	78.5	186.9	26,500	70
75	70.4	189.4	33,200	73.7	188.3	28,800	76.8	185.1	25,500	75
80	68.8	187.3	32,500	72.1	186.3	28,300	75.2	183.0	24,500	80
85	67.2	185.2	31,800	70.5	184.1	27,900	73.6	180.8	23,600	85
90	65.6	182.8	31,200	68.9	181.8	27,400	71.9	178.5	22,800	90
95	63.9	180.3	28,900	67.2	179.3	26,900	70.2	175.9	22,100	95
100	62.2	177.6	26,600	65.5	176.6	26,400	68.5	173.1	21,400	100
105	60.5	174.7	24,500	63.8	173.7	25,700	66.7	170.2	20,800	105
110	58.8	171.6	22,600	62.1	170.6	23,700	65.0	167.0	20,100	110
115	57.0	168.3	20,900	60.3	167.3	22,000	63.1	163.6	19,600	115
120	55.2	164.7	19,400	58.5	163.8	20,300	61.3	160.0	19,000	120
125	53.4	160.9	18,000	56.6	160.0	18,900	59.4	156.1	18,500	125
130	51.5	156.9	16,700	54.7	155.9	17,500	57.4	152.0	18,100	130
135	49.5	152.5	15,500	52.8	151.6	16,200	55.4	147.5	16,900	135
140	47.5	147.9	14,300	50.7	146.9	15,100	53.3	142.7	15,700	140
145	45.4	142.9	13,300	48.6	141.9	14,000	51.1	137.5	14,500	145
150	43.3	137.5	12,400	46.4	136.5	13,000	48.9	132.0	13,500	150
155	41.0	131.7	11,500	44.2	130.7	12,000	46.5	125.9	12,500	155
160	38.6	125.3	10,600	41.8	124.3	11,100	44.0	119.3	11,500	160
164	36.6	119.8	10,000	39.7	118.8	10,500	41.9	113.5	10,800	164
165	36.1	118.4	9,800	39.2	117.4	10,300				165
170	33.4	110.8	9,100	36.5	109.8	9,500				170
175	30.5	102.3	8,400	33.6	101.2	8,800				175
180	27.3	92.7	7,700	30.3	91.5	8,000				180
185	23.7	81.5	7,100							185
189	20.3	70.8	6,600							189

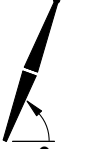
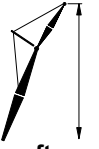
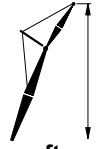
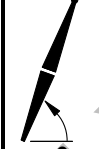
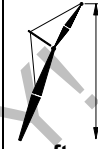
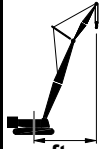


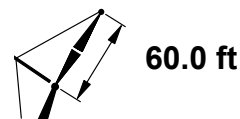
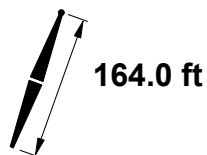
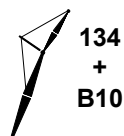
	5°			15°			25°			
										
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
42	81.0	208.9	38,100							42
45	80.1	208.3	37,700							45
50	78.7	207.2	37,000							50
54	77.5	206.3	36,400	80.8	205.1	31,200				54
55	77.2	206.0	36,300	80.5	204.8	31,100				55
60	75.8	204.7	35,600	79.0	203.5	30,500				60
64	74.6	203.5	35,100	77.8	202.4	30,100	80.9	199.2	27,500	64
65	74.3	203.2	35,000	77.6	202.1	30,000	80.6	198.9	27,400	65
70	72.9	201.6	34,200	76.1	200.5	29,400	79.1	197.3	26,900	70
75	71.4	199.9	33,500	74.6	198.7	29,000	77.5	195.5	25,900	75
80	69.9	198.0	32,800	73.1	196.9	28,500	76.0	193.6	25,000	80
85	68.4	195.9	32,100	71.5	194.8	28,100	74.4	191.5	24,100	85
90	66.8	193.7	31,200	70.0	192.6	27,600	72.9	189.3	23,300	90
95	65.3	191.3	28,600	68.4	190.3	27,200	71.3	186.9	22,500	95
100	63.7	188.8	26,300	66.9	187.7	26,800	69.7	184.3	21,900	100
105	62.1	186.1	24,200	65.2	185.0	25,400	68.0	181.5	21,200	105
110	60.5	183.2	22,300	63.6	182.1	23,500	66.4	178.6	20,600	110
115	58.8	180.1	20,600	62.0	179.1	21,700	64.7	175.4	20,000	115
120	57.1	176.8	19,100	60.3	175.8	20,100	62.9	172.0	19,500	120
125	55.4	173.3	17,600	58.5	172.3	18,600	61.2	168.5	19,000	125
130	53.7	169.5	16,300	56.8	168.5	17,200	59.4	164.6	18,000	130
135	51.9	165.5	15,100	55.0	164.5	16,000	57.5	160.5	16,700	135
140	50.0	161.3	14,000	53.1	160.3	14,800	55.6	156.2	15,500	140
145	48.1	156.7	13,000	51.2	155.7	13,700	53.7	151.5	14,300	145
150	46.2	151.8	12,000	49.2	150.8	12,700	51.6	146.4	13,300	150
155	44.2	146.6	11,200	47.2	145.6	11,800	49.5	141.0	12,300	155
160	42.1	141.0	10,300	45.1	140.0	10,900	47.3	135.2	11,300	160
165	39.8	134.9	9,500	42.8	133.9	10,100	45.0	128.9	10,500	165
170	37.5	128.4	8,800	40.5	127.3	9,300	42.6	122.0	9,600	170
171	37.0	126.9	8,600	40.0	125.9	9,100	42.1	120.6	9,500	171
175	35.1	121.2	8,100	38.0	120.1	8,500				175
180	32.5	113.3	7,400	35.4	112.2	7,800				180
185	29.6	104.5	6,800	32.5	103.4	7,200				185
188	27.7	98.5	6,400	30.7	97.5	6,800				188
190	26.5	94.6	6,200							190
195	22.9	83.0	5,600							195
198	20.5	74.9	5,300							198

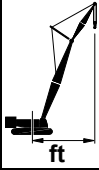
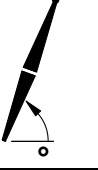
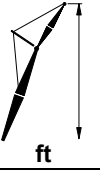
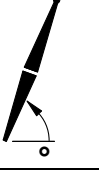
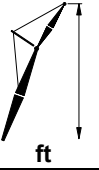
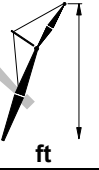


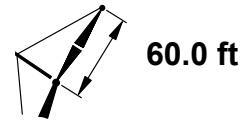
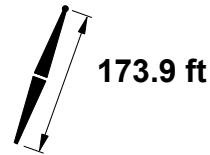
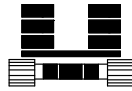
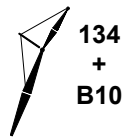
114,600 lb
+
0 lb



	5°			15°			25°			
										
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
44	80.9	218.5	37,800							44
45	80.6	218.3	37,600							45
50	79.2	217.3	37,000							50
55	77.8	216.2	36,300	80.9	214.9	31,100				55
60	76.5	214.9	35,700	79.5	213.7	30,600				60
65	75.1	213.5	35,000	78.1	212.3	30,100	81.0	209.1	27,500	65
70	73.7	212.0	34,400	76.7	210.8	29,600	79.6	207.5	27,100	70
75	72.3	210.3	33,800	75.3	209.2	29,100	78.2	205.9	26,300	75
80	70.8	208.5	33,100	73.9	207.4	28,700	76.7	204.0	25,400	80
85	69.4	206.6	32,500	72.4	205.4	28,200	75.2	202.1	24,500	85
90	68.0	204.5	30,700	71.0	203.4	27,800	73.7	200.0	23,700	90
95	66.5	202.2	28,100	69.5	201.1	27,500	72.2	197.7	23,000	95
100	65.0	199.8	25,800	68.0	198.7	27,000	70.7	195.3	22,300	100
105	63.5	197.3	23,700	66.5	196.2	25,000	69.2	192.7	21,600	105
110	62.0	194.6	21,800	65.0	193.5	23,100	67.6	189.9	21,100	110
115	60.4	191.7	20,100	63.4	190.6	21,300	66.0	186.9	20,500	115
120	58.9	188.6	18,600	61.8	187.5	19,700	64.4	183.8	19,900	120
125	57.3	185.3	17,200	60.2	184.2	18,200	62.8	180.5	19,000	125
130	55.6	181.8	15,800	58.6	180.7	16,800	61.1	176.9	17,600	130
135	54.0	178.1	14,600	56.9	177.0	15,500	59.4	173.1	16,300	135
140	52.3	174.1	13,500	55.2	173.1	14,400	57.6	169.1	15,100	140
145	50.5	170.0	12,500	53.4	168.9	13,300	55.8	164.8	13,900	145
150	48.7	165.5	11,500	51.6	164.5	12,300	54.0	160.2	12,900	150
155	46.9	160.7	10,700	49.8	159.7	11,300	52.1	155.3	11,900	155
160	45.0	155.7	9,800	47.9	154.6	10,500	50.1	150.1	11,000	160
165	43.0	150.2	9,000	45.9	149.2	9,600	48.0	144.4	10,100	165
170	40.9	144.4	8,300	43.8	143.3	8,800	45.9	138.4	9,300	170
175	38.8	138.1	7,600	41.6	137.0	8,100	43.6	131.8	8,500	175
179	37.0	132.7	7,100	39.8	131.6	7,500	41.7	126.2	7,900	179
180	36.5	131.3	6,900	39.4	130.2	7,400				180
185	34.1	123.9	6,300	36.9	122.8	6,700				185
190	31.6	115.7	5,700	34.3	114.6	6,100				190
195	28.8	106.7	5,100	31.5	105.4	5,500				195
197	27.6	102.5	4,900	30.3	101.4	5,300				197
200	25.7	96.4	4,600							200
205	22.3	84.4	4,100							205



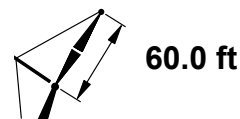
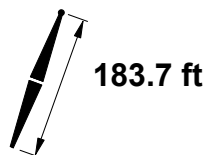
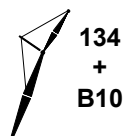
	5°			15°			25°			
 ft	 °	 ft	 lb	 °	 ft	 lb	 °	 ft	 lb	 ft
45	81.0	228.3	37,600							45
50	79.7	227.3	37,000							50
55	78.4	226.3	36,400							55
57	77.9	225.8	36,100	80.8	224.6	30,900				57
60	77.1	225.1	35,700	80.0	223.8	30,600				60
65	75.7	223.7	35,200	78.7	222.5	30,200				65
67	75.2	223.1	34,900	78.1	221.9	30,000	80.9	218.7	27,300	67
70	74.4	222.3	34,600	77.3	221.1	29,700	80.1	217.8	27,100	70
75	73.1	220.7	34,000	76.0	219.5	29,300	78.7	216.2	26,700	75
80	71.7	219.0	33,400	74.6	217.8	28,800	77.3	214.4	25,800	80
85	70.4	217.1	32,800	73.3	216.0	28,400	75.9	212.6	24,900	85
90	69.0	215.2	30,300	71.9	214.0	28,000	74.5	210.6	24,100	90
95	67.6	213.0	27,700	70.5	211.9	27,700	73.1	208.4	23,400	95
100	66.2	210.8	25,400	69.1	209.6	26,900	71.7	206.1	22,700	100
105	64.8	208.3	23,300	67.6	207.2	24,700	70.2	203.7	22,100	105
110	63.3	205.8	21,400	66.2	204.7	22,700	68.7	201.1	21,400	110
115	61.9	203.0	19,700	64.7	201.9	20,900	67.2	198.3	20,900	115
120	60.4	200.1	18,100	63.2	199.0	19,300	65.7	195.3	20,300	120
125	58.9	197.0	16,700	61.7	196.0	17,800	64.2	192.2	18,700	125
130	57.4	193.8	15,400	60.2	192.7	16,400	62.6	188.9	17,300	130
135	55.8	190.3	14,200	58.6	189.2	15,200	61.0	185.3	16,000	135
140	54.2	186.6	13,100	57.0	185.6	14,000	59.4	181.6	14,800	140
145	52.6	182.8	12,100	55.4	181.7	12,900	57.7	177.6	13,600	145
150	50.9	178.6	11,100	53.7	177.6	11,900	56.0	173.4	12,600	150
155	49.2	174.3	10,200	52.0	173.2	11,000	54.3	168.9	11,600	155
160	47.5	169.6	9,400	50.3	168.5	10,100	52.4	164.1	10,600	160
165	45.7	164.7	8,600	48.5	163.6	9,300	50.6	159.0	9,800	165
170	43.8	159.4	7,900	46.6	158.3	8,500	48.6	153.6	8,900	170
175	41.9	153.7	7,200	44.6	152.6	7,700	46.6	147.7	8,200	175
180	39.9	147.7	6,500	42.6	146.6	7,000	44.5	141.4	7,400	180
185	37.8	141.2	5,900	40.5	140.1	6,400	42.3	134.7	6,700	185
186	37.3	139.8	5,800	40.0	138.6	6,300	41.9	133.2	6,600	186
190	35.6	134.2	5,300	38.3	133.0	5,800				190
195	33.2	126.5	4,700	35.9	125.3	5,200				195
200	30.7	118.1	4,200	33.4	116.8	4,600				200
205				30.6	107.4	4,000				205

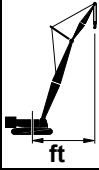
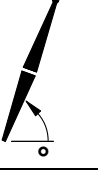
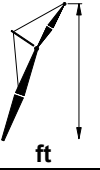
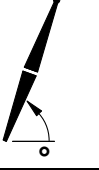
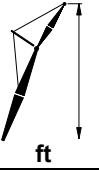
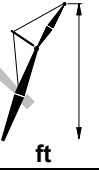


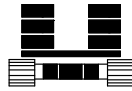
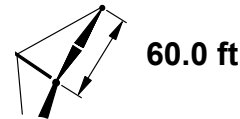
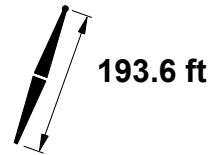
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
47	80.9	237.9	37,200							47
50	80.1	237.4	36,900							50
55	78.9	236.3	36,300							55
58	78.1	235.6	36,000	81.0	234.4	30,900				58
60	77.6	235.2	35,800	80.5	233.9	30,700				60
65	76.4	233.9	35,200	79.2	232.7	30,300				65
69	75.3	232.8	34,700	78.2	231.6	29,900	80.8	228.2	27,300	69
70	75.1	232.5	34,600	77.9	231.3	29,800	80.5	228.0	27,200	70
75	73.8	231.0	34,100	76.6	229.8	29,400	79.2	226.4	26,900	75
80	72.5	229.4	33,500	75.3	228.2	28,900	77.9	224.8	26,100	80
85	71.2	227.6	32,800	74.0	226.4	28,600	76.6	223.0	25,200	85
90	69.9	225.8	29,900	72.7	224.6	28,200	75.2	221.1	24,500	90
95	68.6	223.7	27,200	71.4	222.6	27,800	73.9	219.1	23,800	95
100	67.3	221.6	24,900	70.0	220.4	26,500	72.5	216.9	23,100	100
105	65.9	219.3	22,800	68.7	218.1	24,300	71.1	214.6	22,500	105
110	64.5	216.8	20,900	67.3	215.7	22,300	69.7	212.1	21,800	110
115	63.2	214.3	19,200	65.9	213.1	20,500	68.3	209.5	21,300	115
120	61.8	211.5	17,700	64.5	210.4	18,900	66.9	206.7	19,900	120
125	60.4	208.6	16,200	63.1	207.5	17,400	65.4	203.7	18,400	125
130	58.9	205.5	14,900	61.6	204.4	16,000	64.0	200.6	16,900	130
135	57.5	202.3	13,700	60.2	201.2	14,700	62.5	197.3	15,600	135
140	56.0	198.8	12,600	58.7	197.7	13,600	60.9	193.8	14,400	140
145	54.4	195.2	11,600	57.1	194.1	12,500	59.4	190.1	13,200	145
150	52.9	191.4	10,600	55.6	190.3	11,500	57.8	186.1	12,200	150
155	51.3	187.3	9,700	54.0	186.2	10,500	56.2	182.0	11,200	155
160	49.7	183.0	8,900	52.4	181.9	9,600	54.5	177.6	10,200	160
165	48.0	178.4	8,100	50.7	177.3	8,800	52.8	172.9	9,400	165
170	46.3	173.6	7,400	49.0	172.5	8,000	51.0	167.9	8,500	170
175	44.6	168.4	6,700	47.2	167.3	7,300	49.2	162.6	7,800	175
180	42.8	163.0	6,000	45.4	161.9	6,600	47.3	157.0	7,000	180
185	40.9	157.1	5,400	43.5	156.0	5,900	45.4	150.9	6,300	185
190	38.9	150.9	4,800	41.5	149.7	5,300	43.3	144.4	5,700	190
193	37.7	146.9	4,500	40.3	145.7	4,900	42.0	140.3	5,300	193
195	36.9	144.2	4,200	39.4	143.0	4,700				195
200				37.3	135.7	4,100				200

MLC200 S-1

ASME B30.5



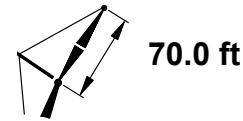
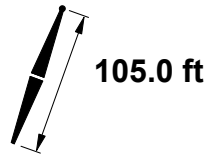
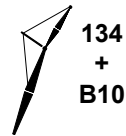
	5°			15°			25°			
 ft	 o	 ft	 lb	 o	 ft	 lb	 o	 ft	 lb	 ft
48	81.0	247.8	37,000							48
50	80.5	247.4	36,700							50
55	79.3	246.4	36,200							55
60	78.1	245.3	35,700	80.8	244.0	30,700				60
65	76.9	244.1	35,100	79.6	242.8	30,300				65
70	75.7	242.8	34,600	78.4	241.5	29,800	80.9	238.1	27,200	70
75	74.5	241.3	34,100	77.2	240.1	29,400	79.7	236.7	26,900	75
80	73.3	239.8	33,600	75.9	238.5	29,000	78.4	235.1	26,400	80
85	72.0	238.1	32,500	74.7	236.9	28,700	77.2	233.4	25,600	85
90	70.8	236.3	29,500	73.4	235.1	28,300	75.9	231.6	24,900	90
95	69.5	234.4	26,900	72.2	233.2	27,900	74.6	229.6	24,100	95
100	68.2	232.3	24,600	70.9	231.1	26,200	73.3	227.6	23,500	100
105	67.0	230.1	22,500	69.6	228.9	24,000	72.0	225.4	22,800	105
110	65.7	227.8	20,600	68.3	226.6	22,000	70.7	223.0	22,300	110
115	64.3	225.3	18,900	67.0	224.2	20,200	69.3	220.5	21,400	115
120	63.0	222.7	17,300	65.6	221.6	18,600	68.0	217.9	19,700	120
125	61.7	220.0	15,900	64.3	218.8	17,100	66.6	215.1	18,100	125
130	60.3	217.1	14,600	62.9	215.9	15,700	65.2	212.1	16,700	130
135	58.9	214.0	13,400	61.5	212.9	14,400	63.8	209.0	15,300	135
140	57.5	210.8	12,300	60.1	209.6	13,300	62.3	205.7	14,100	140
145	56.1	207.3	11,200	58.7	206.2	12,200	60.9	202.2	13,000	145
150	54.7	203.7	10,300	57.2	202.6	11,200	59.4	198.5	11,900	150
155	53.2	199.9	9,400	55.8	198.8	10,200	57.9	194.7	10,900	155
160	51.7	195.9	8,500	54.2	194.8	9,300	56.3	190.6	10,000	160
165	50.1	191.7	7,800	52.7	190.6	8,500	54.7	186.2	9,100	165
170	48.6	187.2	7,000	51.1	186.1	7,700	53.1	181.6	8,300	170
175	46.9	182.5	6,300	49.5	181.3	7,000	51.4	176.8	7,500	175
180	45.3	177.5	5,700	47.8	176.3	6,300	49.7	171.6	6,800	180
185	43.6	172.1	5,100	46.1	171.0	5,600	47.9	166.1	6,100	185
190	41.8	166.5	4,500	44.3	165.3	5,000	46.1	160.3	5,400	190
195				42.4	159.3	4,400	44.2	154.0	4,800	195
200							42.2	147.3	4,200	200
201							41.7	145.9	4,100	201

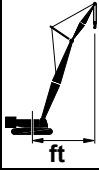
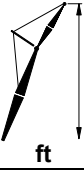
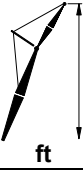
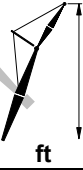
114,600 lb
+
0 lb

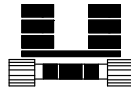
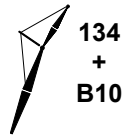
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
50	80.9	257.4	36,700							50
55	79.8	256.5	36,100							55
60	78.6	255.4	35,600							60
61	78.4	255.2	35,500	81.0	253.9	30,600				61
65	77.4	254.2	35,100	80.0	252.9	30,300				65
70	76.3	253.0	34,600	78.9	251.7	29,900				70
72	75.8	252.4	34,400	78.4	251.1	29,700	80.8	247.7	27,100	72
75	75.1	251.6	34,100	77.7	250.3	29,400	80.1	246.9	26,900	75
80	73.9	250.1	33,600	76.5	248.8	29,100	78.9	245.4	26,700	80
85	72.7	248.5	32,100	75.3	247.2	28,700	77.7	243.8	26,000	85
90	71.5	246.8	29,100	74.1	245.5	28,300	76.5	242.0	25,200	90
95	70.3	244.9	26,500	72.9	243.7	28,000	75.2	240.2	24,500	95
100	69.1	243.0	24,100	71.7	241.7	25,800	74.0	238.2	23,800	100
105	67.9	240.9	22,000	70.5	239.7	23,600	72.7	236.1	23,200	105
110	66.7	238.7	20,100	69.2	237.5	21,600	71.5	233.8	22,600	110
115	65.4	236.3	18,400	68.0	235.1	19,800	70.2	231.5	21,000	115
120	64.2	233.8	16,800	66.7	232.7	18,200	68.9	229.0	19,300	120
125	62.9	231.2	15,400	65.4	230.1	16,700	67.6	226.3	17,800	125
130	61.6	228.5	14,100	64.1	227.3	15,300	66.3	223.5	16,300	130
135	60.3	225.6	12,900	62.8	224.4	14,000	65.0	220.5	15,000	135
140	59.0	222.5	11,800	61.5	221.3	12,800	63.6	217.4	13,700	140
145	57.6	219.3	10,700	60.1	218.1	11,700	62.2	214.1	12,600	145
150	56.2	215.9	9,800	58.7	214.7	10,700	60.8	210.7	11,500	150
155	54.9	212.3	8,900	57.3	211.1	9,800	59.4	207.0	10,500	155
160	53.4	208.5	8,100	55.9	207.4	8,900	57.9	203.2	9,600	160
165	52.0	204.5	7,300	54.5	203.4	8,100	56.5	199.1	8,700	165
170	50.5	200.4	6,500	53.0	199.2	7,300	54.9	194.8	7,900	170
175	49.0	196.0	5,800	51.5	194.8	6,600	53.4	190.3	7,100	175
180	47.5	191.3	5,200	49.9	190.2	5,900	51.8	185.6	6,400	180
185	45.9	186.4	4,600	48.3	185.3	5,200	50.2	180.5	5,700	185
190	44.3	181.2	4,000	46.7	180.1	4,600	48.5	175.2	5,000	190
195				45.0	174.5	4,000	46.7	169.5	4,400	195

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ASME B30.5



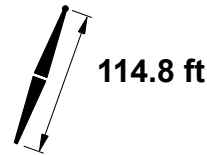
	5°			15°			25°			
 ft	 o	 ft	 lb	 o	 ft	 lb	 o	 ft	 lb	 ft
38	80.9	180.0	31,100							38
40	80.3	179.6	30,800							40
45	78.6	178.5	29,900							45
50	76.9	177.3	29,200	80.9	176.1	26,700				50
55	75.2	175.9	28,400	79.2	174.7	26,100				55
60	73.5	174.4	27,600	77.5	173.1	25,500				60
62	72.8	173.7	27,400	76.8	172.4	25,300	81.0	169.4	23,200	62
65	71.7	172.6	27,000	75.8	171.4	24,900	79.9	168.3	22,900	65
70	70.0	170.8	26,200	74.0	169.5	24,400	78.1	166.4	22,400	70
75	68.2	168.7	25,600	72.2	167.4	23,800	76.3	164.3	21,400	75
80	66.4	166.5	25,000	70.4	165.2	23,300	74.5	162.0	20,500	80
85	64.6	164.0	24,400	68.6	162.7	22,800	72.6	159.5	19,600	85
90	62.8	161.4	23,800	66.7	160.0	22,300	70.7	156.8	18,900	90
95	60.9	158.5	23,200	64.8	157.2	21,800	68.7	153.8	18,100	95
100	59.0	155.5	22,700	62.9	154.1	21,400	66.8	150.6	17,500	100
105	57.0	152.2	22,200	60.9	150.7	20,900	64.7	147.2	16,900	105
110	55.0	148.6	21,700	58.8	147.1	20,600	62.6	143.5	16,300	110
115	52.9	144.8	21,200	56.8	143.2	20,200	60.5	139.5	15,800	115
120	50.8	140.6	20,700	54.6	139.0	19,300	58.3	135.2	15,300	120
125	48.6	136.1	19,800	52.4	134.5	18,700	56.0	130.5	14,800	125
130	46.3	131.3	18,500	50.1	129.6	18,100	53.6	125.5	14,400	130
135	43.9	126.1	17,300	47.7	124.3	17,400	51.1	120.0	14,000	135
140	41.5	120.4	16,200	45.1	118.5	16,800	48.5	113.9	13,700	140
145	38.8	114.1	15,200	42.5	112.1	15,700	45.7	107.3	13,300	145
150	36.0	107.2	14,200	39.6	105.1	14,700	42.7	99.9	13,000	150
153	34.2	102.6	13,700	37.8	100.4	14,100	40.8	95.0	12,900	153
155	33.0	99.5	13,300	36.6	97.2	13,700				155
160	29.8	90.8	12,500	33.2	88.3	12,800				160
165	26.1	80.8	11,700	29.4	77.9	12,000				165
170	21.8	68.7	10,900							170
173	18.7	59.9	10,500							173



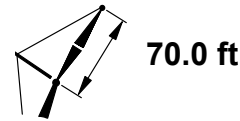
114,600 lb
+
0 lb



360°



114.8 ft

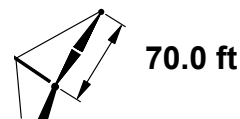
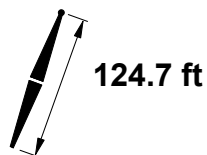
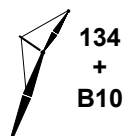


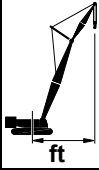
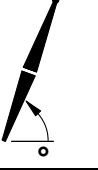
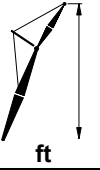
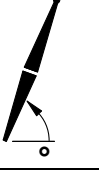
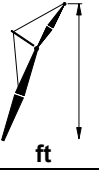
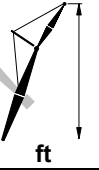
70.0 ft

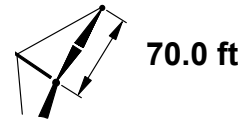
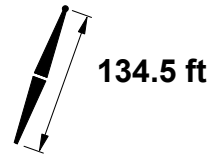
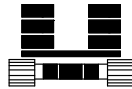
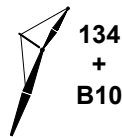
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
40	80.8	189.6	30,900							40
45	79.2	188.6	30,100							45
50	77.6	187.4	29,400							50
52	77.0	186.9	29,100	80.8	185.7	26,600				52
55	76.0	186.1	28,600	79.8	184.9	26,200				55
60	74.4	184.7	27,900	78.2	183.4	25,700				60
64	73.1	183.4	27,400	76.9	182.1	25,200	80.9	179.0	23,100	64
65	72.8	183.1	27,200	76.6	181.8	25,100	80.5	178.6	23,000	65
70	71.1	181.3	26,600	74.9	180.0	24,600	78.8	176.8	22,600	70
75	69.5	179.4	26,000	73.2	178.0	24,100	77.1	174.8	21,900	75
80	67.8	177.3	25,400	71.5	175.9	23,600	75.4	172.7	20,900	80
85	66.1	175.0	24,800	69.8	173.6	23,100	73.6	170.3	20,100	85
90	64.3	172.5	24,200	68.1	171.1	22,600	71.9	167.8	19,300	90
95	62.6	169.9	23,700	66.3	168.5	22,100	70.1	165.1	18,600	95
100	60.8	167.0	23,200	64.5	165.6	21,700	68.2	162.1	18,000	100
105	59.0	164.0	22,700	62.7	162.5	21,300	66.3	159.0	17,300	105
110	57.1	160.7	22,200	60.8	159.2	20,900	64.4	155.6	16,800	110
115	55.2	157.1	21,700	58.9	155.6	20,500	62.5	151.9	16,200	115
120	53.3	153.3	20,700	56.9	151.8	20,100	60.4	148.0	15,800	120
125	51.3	149.3	19,300	54.9	147.7	19,500	58.4	143.7	15,300	125
130	49.2	144.9	18,000	52.8	143.2	18,800	56.2	139.2	14,900	130
135	47.1	140.2	16,800	50.7	138.5	17,500	54.0	134.3	14,500	135
140	44.9	135.1	15,700	48.4	133.3	16,400	51.7	129.0	14,100	140
145	42.6	129.6	14,700	46.1	127.8	15,300	49.2	123.2	13,800	145
150	40.2	123.7	13,700	43.6	121.7	14,300	46.7	116.9	13,400	150
155	37.6	117.2	12,800	41.0	115.1	13,300	44.0	109.9	13,200	155
160	34.9	110.0	12,000	38.3	107.7	12,400	41.1	102.2	12,800	160
165	32.0	102.0	11,200	35.3	99.6	11,600				165
170	28.8	93.0	10,500	32.0	90.3	10,800				170
173	26.6	86.7	10,000	29.8	84.0	10,300				173
175	25.2	82.5	9,700							175
180	21.0	70.0	9,100							180
182	19.1	64.0	8,800							182

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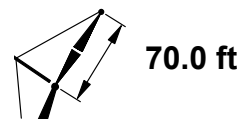
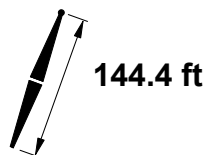
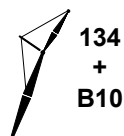
ASME B30.5

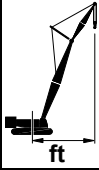
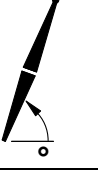
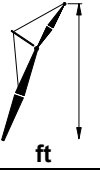
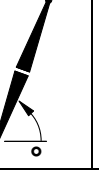
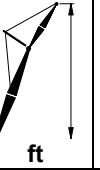


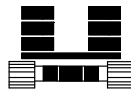
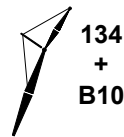
	5°			15°			25°			
 ft	 o	 ft	 lb	 o	 ft	 lb	 o	 ft	 lb	 ft
41	81.0	199.4	30,900							41
45	79.8	198.6	30,300							45
50	78.2	197.5	29,500							50
53	77.3	196.8	29,100	81.0	195.5	26,600				53
55	76.7	196.3	28,800	80.4	195.0	26,400				55
60	75.2	194.9	28,100	78.8	193.6	25,800				60
65	73.7	193.4	27,500	77.3	192.1	25,300	81.0	188.9	23,100	65
70	72.1	191.7	26,900	75.7	190.4	24,800	79.4	187.2	22,700	70
75	70.5	189.9	26,300	74.1	188.6	24,300	77.8	185.3	22,300	75
80	69.0	188.0	25,700	72.5	186.6	23,800	76.2	183.3	21,400	80
85	67.4	185.8	25,100	70.9	184.4	23,400	74.6	181.1	20,500	85
90	65.7	183.5	24,600	69.3	182.1	22,900	72.9	178.7	19,800	90
95	64.1	181.0	24,100	67.6	179.6	22,400	71.2	176.1	19,100	95
100	62.4	178.4	23,600	66.0	176.9	22,000	69.5	173.4	18,400	100
105	60.7	175.5	23,100	64.2	174.0	21,600	67.7	170.4	17,800	105
110	59.0	172.4	22,600	62.5	170.9	21,200	66.0	167.3	17,300	110
115	57.2	169.2	21,900	60.7	167.6	20,800	64.1	163.9	16,700	115
120	55.5	165.7	20,300	58.9	164.1	20,500	62.3	160.3	16,200	120
125	53.6	161.9	18,900	57.1	160.3	19,800	60.4	156.4	15,700	125
130	51.7	157.9	17,600	55.1	156.3	18,400	58.4	152.3	15,300	130
135	49.8	153.6	16,400	53.2	151.9	17,200	56.4	147.8	14,900	135
140	47.8	149.0	15,300	51.2	147.3	16,000	54.3	143.0	14,500	140
145	45.7	144.1	14,300	49.1	142.3	14,900	52.2	137.9	14,200	145
150	43.6	138.8	13,300	46.9	136.9	13,900	49.9	132.3	13,800	150
155	41.3	133.1	12,400	44.6	131.1	13,000	47.5	126.3	13,500	155
160	39.0	126.9	11,600	42.2	124.8	12,100	45.1	119.7	12,500	160
165	36.5	120.1	10,800	39.7	117.9	11,200	42.4	112.4	11,600	165
168	34.9	115.6	10,400	38.1	113.3	10,800	40.7	107.7	11,100	168
170	33.9	112.7	10,100	37.0	110.3	10,500				170
175	31.0	104.4	9,400	34.1	101.8	9,700				175
180	27.9	95.0	8,700	30.9	92.2	9,000				180
182	26.5	90.7	8,400	29.5	87.9	8,700				182
185	24.4	84.2	8,100							185
190	20.3	71.2	7,400							190
191	19.4	68.2	7,300							191



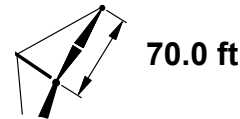
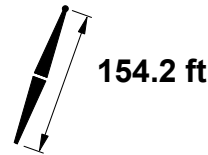
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
43	80.8	209.1	30,600							43
45	80.3	208.7	30,400							45
50	78.8	207.6	29,700							50
55	77.4	206.5	29,000	80.8	205.1	26,400				55
60	75.9	205.2	28,400	79.4	203.8	25,900				60
65	74.5	203.7	27,700	77.9	202.4	25,500				65
67	73.9	203.1	27,500	77.3	201.7	25,300	80.9	198.4	23,000	67
70	73.0	202.1	27,100	76.4	200.8	25,000	80.0	197.5	22,800	70
75	71.5	200.4	26,500	74.9	199.0	24,500	78.5	195.7	22,400	75
80	70.0	198.5	26,000	73.4	197.2	24,000	76.9	193.8	21,800	80
85	68.5	196.5	25,500	71.9	195.1	23,600	75.4	191.7	20,900	85
90	67.0	194.4	24,900	70.4	192.9	23,200	73.8	189.5	20,200	90
95	65.4	192.0	24,400	68.8	190.6	22,700	72.2	187.1	19,500	95
100	63.9	189.5	24,000	67.2	188.1	22,400	70.6	184.5	18,800	100
105	62.3	186.8	23,400	65.6	185.3	21,900	69.0	181.7	18,200	105
110	60.7	184.0	23,000	64.0	182.5	21,600	67.3	178.8	17,600	110
115	59.0	180.9	21,400	62.3	179.4	21,100	65.6	175.6	17,100	115
120	57.4	177.7	19,800	60.7	176.1	20,800	63.9	172.3	16,600	120
125	55.7	174.2	18,400	58.9	172.6	19,300	62.1	168.7	16,200	125
130	53.9	170.5	17,100	57.2	168.9	18,000	60.3	164.9	15,700	130
135	52.1	166.5	15,900	55.4	164.9	16,700	58.5	160.8	15,300	135
140	50.3	162.3	14,800	53.5	160.6	15,500	56.6	156.4	14,900	140
145	48.4	157.9	13,800	51.6	156.1	14,500	54.6	151.7	14,600	145
150	46.5	153.1	12,800	49.7	151.2	13,500	52.6	146.7	14,100	150
155	44.5	147.9	11,900	47.6	146.0	12,500	50.5	141.3	13,100	155
160	42.4	142.4	11,100	45.5	140.4	11,600	48.3	135.5	12,200	160
165	40.2	136.4	10,300	43.3	134.4	10,800	46.0	129.2	11,300	165
170	37.9	130.0	9,500	41.0	127.8	10,000	43.6	122.4	10,400	170
175	35.5	122.9	8,800	38.5	120.6	9,300	41.0	114.9	9,600	175
180	32.9	115.2	8,200	35.9	112.7	8,600				180
185	30.1	106.7	7,600	33.0	103.9	7,900				185
190	27.1	97.0	7,000	29.9	94.0	7,200				190
191	26.4	94.7	6,800	29.2	91.8	7,100				191
195	23.6	85.8	6,400							195
200	19.6	72.3	5,800							200



	5°			15°			25°			
 ft	 o	 ft	 lb	 o	 ft	 lb	 o	 ft	 lb	 ft
44	81.0	218.9	30,400							44
45	80.7	218.7	30,300							45
50	79.3	217.7	29,800							50
55	78.0	216.6	29,200							55
56	77.7	216.3	29,000	81.0	215.0	26,400				56
60	76.6	215.3	28,600	79.9	214.0	26,100				60
65	75.2	214.0	28,000	78.5	212.6	25,500				65
69	74.1	212.8	27,500	77.4	211.4	25,200	80.8	208.0	22,900	69
70	73.8	212.5	27,400	77.1	211.1	25,100	80.5	207.7	22,900	70
75	72.4	210.8	26,800	75.7	209.4	24,700	79.0	206.0	22,500	75
80	71.0	209.1	26,300	74.2	207.7	24,200	77.6	204.2	22,100	80
85	69.6	207.2	25,700	72.8	205.7	23,800	76.1	202.3	21,300	85
90	68.1	205.1	25,200	71.3	203.7	23,400	74.6	200.1	20,600	90
95	66.7	202.9	24,700	69.9	201.4	23,000	73.1	197.9	19,900	95
100	65.2	200.5	24,300	68.4	199.0	22,600	71.6	195.5	19,200	100
105	63.7	198.0	23,800	66.9	196.5	22,200	70.1	192.9	18,600	105
110	62.2	195.3	22,700	65.3	193.8	21,800	68.5	190.1	18,100	110
115	60.6	192.4	21,000	63.8	190.9	21,500	66.9	187.1	17,500	115
120	59.1	189.4	19,500	62.2	187.8	20,500	65.3	184.0	17,000	120
125	57.5	186.2	18,100	60.6	184.6	19,100	63.7	180.7	16,600	125
130	55.8	182.7	16,800	59.0	181.1	17,700	62.0	177.1	16,100	130
135	54.2	179.0	15,600	57.3	177.4	16,400	60.3	173.3	15,700	135
140	52.5	175.2	14,500	55.6	173.5	15,300	58.5	169.3	15,300	140
145	50.7	171.0	13,400	53.8	169.3	14,200	56.7	165.0	14,900	145
150	49.0	166.6	12,500	52.0	164.8	13,200	54.9	160.4	13,900	150
155	47.1	161.9	11,600	50.2	160.1	12,200	53.0	155.5	12,900	155
160	45.2	156.9	10,700	48.3	155.0	11,400	51.0	150.3	11,900	160
165	43.3	151.6	10,000	46.3	149.6	10,500	48.9	144.7	11,100	165
170	41.2	145.8	9,200	44.2	143.8	9,800	46.8	138.7	10,200	170
175	39.1	139.7	8,500	42.0	137.5	9,000	44.6	132.1	9,500	175
180	36.9	133.0	7,900	39.8	130.7	8,300	42.2	125.0	8,700	180
183	35.5	128.6	7,500	38.3	126.2	7,900	40.7	120.4	8,300	183
185	34.5	125.7	7,300	37.4	123.3	7,700				185
190	32.0	117.7	6,700	34.8	115.1	7,000				190
195	29.3	108.9	6,100	32.0	106.0	6,400				195
199	26.9	100.9	5,700	29.6	97.9	5,900				199
200	26.3	98.9	5,600							200
205	22.9	87.3	5,100							205
210	19.0	73.4	4,600							210



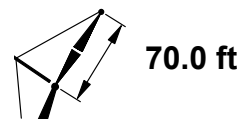
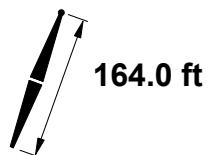
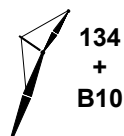
114,600 lb
+
0 lb

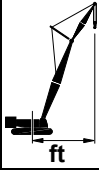
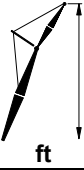


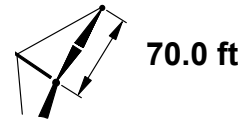
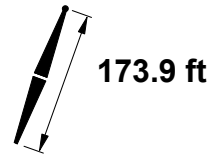
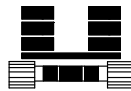
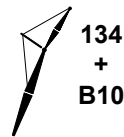
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
46	80.9	228.5	30,100							46
50	79.8	227.7	29,900							50
55	78.5	226.7	29,300							55
58	77.7	226.0	28,900	80.9	224.6	26,300				58
60	77.2	225.5	28,700	80.3	224.1	26,100				60
65	75.9	224.2	28,100	79.0	222.8	25,700				65
70	74.5	222.8	27,500	77.7	221.4	25,200	80.9	217.9	23,000	70
75	73.2	221.2	27,000	76.3	219.8	24,800	79.6	216.3	22,600	75
80	71.9	219.5	26,500	75.0	218.1	24,400	78.2	214.6	22,300	80
85	70.5	217.7	26,000	73.6	216.3	24,000	76.8	212.7	21,700	85
90	69.1	215.8	25,500	72.2	214.3	23,600	75.4	210.7	20,900	90
95	67.7	213.7	25,000	70.8	212.2	23,200	74.0	208.6	20,200	95
100	66.3	211.4	24,500	69.4	209.9	22,800	72.5	206.3	19,600	100
105	64.9	209.0	24,100	68.0	207.5	22,400	71.1	203.8	19,000	105
110	63.5	206.5	22,200	66.5	205.0	22,100	69.6	201.2	18,400	110
115	62.0	203.8	20,500	65.1	202.2	21,700	68.1	198.5	17,900	115
120	60.6	200.9	19,000	63.6	199.3	20,100	66.6	195.5	17,400	120
125	59.1	197.9	17,600	62.1	196.3	18,600	65.0	192.4	17,000	125
130	57.5	194.6	16,300	60.6	193.0	17,300	63.5	189.0	16,500	130
135	56.0	191.2	15,100	59.0	189.6	16,000	61.9	185.5	16,100	135
140	54.4	187.6	14,000	57.4	185.9	14,800	60.2	181.8	15,700	140
145	52.8	183.8	12,900	55.8	182.0	13,800	58.6	177.8	14,600	145
150	51.2	179.7	12,000	54.1	177.9	12,700	56.9	173.6	13,500	150
155	49.5	175.4	11,100	52.4	173.5	11,800	55.1	169.1	12,500	155
160	47.7	170.8	10,200	50.6	168.9	10,900	53.3	164.3	11,600	160
165	45.9	165.9	9,500	48.8	164.0	10,100	51.5	159.2	10,700	165
170	44.1	160.7	8,700	47.0	158.7	9,300	49.5	153.8	9,900	170
175	42.2	155.1	8,000	45.0	153.1	8,600	47.5	148.0	9,100	175
180	40.2	149.2	7,400	43.0	147.0	7,900	45.4	141.7	8,300	180
185	38.1	142.8	6,800	40.9	140.5	7,200	43.2	134.9	7,600	185
190	36.0	135.9	6,200	38.7	133.5	6,600	40.9	127.5	7,000	190
195	33.6	128.4	5,600	36.3	125.8	6,000				195
200	31.2	120.1	5,100	33.8	117.4	5,400				200
205	28.5	111.0	4,600	31.1	108.0	4,900				205
208	26.8	104.8	4,300	29.3	101.8	4,500				208
210	25.6	100.7	4,100							210

MLC200 S-1

ASME B30.5



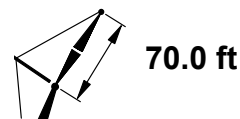
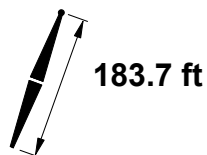
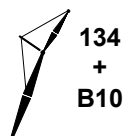
	5°			15°			25°			
 ft	 o	 ft	 lb	 o	 ft	 lb	 o	 ft	 lb	 ft
47	81.0	238.3	29,800							47
50	80.3	237.8	29,700							50
55	79.0	236.8	29,400							55
59	78.0	235.8	28,900	81.0	234.4	26,200				59
60	77.7	235.6	28,800	80.8	234.2	26,100				60
65	76.5	234.4	28,200	79.5	233.0	25,700				65
70	75.2	233.0	27,700	78.2	231.6	25,300				70
72	74.7	232.4	27,500	77.7	231.0	25,100	80.8	227.5	22,800	72
75	73.9	231.5	27,100	76.9	230.1	24,900	80.0	226.6	22,700	75
80	72.7	229.9	26,700	75.6	228.5	24,500	78.7	224.9	22,300	80
85	71.4	228.2	26,200	74.3	226.7	24,100	77.4	223.2	22,000	85
90	70.1	226.3	25,700	73.0	224.9	23,700	76.0	221.3	21,200	90
95	68.7	224.3	25,300	71.7	222.8	23,300	74.7	219.2	20,600	95
100	67.4	222.2	24,800	70.4	220.7	23,000	73.3	217.0	19,900	100
105	66.1	219.9	23,700	69.0	218.4	22,700	72.0	214.7	19,300	105
110	64.7	217.5	21,800	67.6	216.0	22,300	70.6	212.2	18,800	110
115	63.3	215.0	20,100	66.2	213.4	21,400	69.1	209.6	18,300	115
120	61.9	212.3	18,600	64.8	210.7	19,700	67.7	206.8	17,800	120
125	60.5	209.4	17,100	63.4	207.8	18,300	66.3	203.9	17,300	125
130	59.1	206.4	15,800	62.0	204.7	16,900	64.8	200.8	16,800	130
135	57.6	203.1	14,600	60.5	201.5	15,600	63.3	197.4	16,500	135
140	56.2	199.7	13,500	59.0	198.0	14,500	61.8	193.9	15,400	140
145	54.6	196.1	12,500	57.5	194.4	13,400	60.2	190.2	14,200	145
150	53.1	192.3	11,500	55.9	190.6	12,400	58.6	186.3	13,200	150
155	51.5	188.3	10,600	54.3	186.5	11,400	57.0	182.1	12,200	155
160	49.9	184.1	9,800	52.7	182.2	10,500	55.3	177.7	11,200	160
165	48.3	179.6	9,000	51.1	177.7	9,700	53.6	173.1	10,400	165
170	46.6	174.8	8,300	49.3	172.8	8,900	51.9	168.1	9,500	170
175	44.8	169.7	7,600	47.6	167.7	8,200	50.0	162.8	8,800	175
180	43.0	164.3	6,900	45.8	162.3	7,500	48.2	157.2	8,000	180
185	41.2	158.6	6,300	43.9	156.4	6,800	46.2	151.1	7,300	185
190	39.2	152.4	5,700	41.9	150.2	6,200	44.1	144.6	6,600	190
195	37.2	145.8	5,200	39.8	143.5	5,600	42.0	137.6	6,000	195
198	35.9	141.5	4,900	38.5	139.1	5,300	40.6	133.1	5,600	198
200	35.1	138.7	4,700	37.7	136.2	5,100				200
205	32.8	130.9	4,200	35.4	128.3	4,500				205
210				32.9	119.6	4,000				210

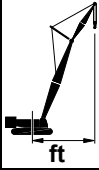
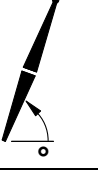
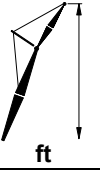
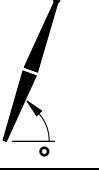
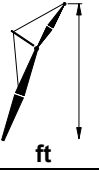
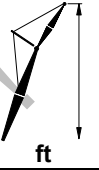


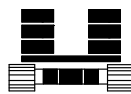
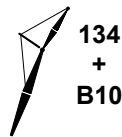
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
49	80.9	248.0	29,500							49
50	80.7	247.8	29,400							50
55	79.5	246.8	29,300							55
60	78.3	245.7	28,800							60
61	78.0	245.5	28,700	80.9	244.1	26,100				61
65	77.0	244.5	28,300	79.9	243.1	25,700				65
70	75.8	243.2	27,800	78.7	241.8	25,300				70
73	75.1	242.4	27,500	78.0	240.9	25,100	80.9	237.4	22,800	73
75	74.6	241.8	27,300	77.5	240.3	25,000	80.4	236.8	22,700	75
80	73.4	240.3	26,800	76.2	238.8	24,600	79.2	235.2	22,400	80
85	72.1	238.6	26,300	75.0	237.1	24,200	77.9	233.5	22,100	85
90	70.9	236.8	25,900	73.7	235.4	23,800	76.7	231.7	21,500	90
95	69.6	234.9	25,400	72.5	233.4	23,500	75.4	229.8	20,900	95
100	68.4	232.9	25,000	71.2	231.4	23,200	74.1	227.7	20,300	100
105	67.1	230.8	23,200	69.9	229.2	22,800	72.8	225.5	19,700	105
110	65.8	228.5	21,300	68.6	226.9	22,500	71.4	223.1	19,100	110
115	64.5	226.0	19,600	67.3	224.5	21,000	70.1	220.7	18,600	115
120	63.2	223.5	18,100	66.0	221.9	19,300	68.7	218.0	18,100	120
125	61.8	220.7	16,600	64.6	219.1	17,800	67.4	215.2	17,600	125
130	60.5	217.9	15,300	63.3	216.2	16,500	66.0	212.3	17,200	130
135	59.1	214.8	14,100	61.9	213.2	15,200	64.6	209.1	16,200	135
140	57.7	211.6	13,000	60.5	209.9	14,000	63.1	205.8	15,000	140
145	56.3	208.2	12,000	59.0	206.5	12,900	61.7	202.4	13,900	145
150	54.8	204.7	11,000	57.6	202.9	11,900	60.2	198.7	12,800	150
155	53.4	200.9	10,100	56.1	199.1	11,000	58.7	194.8	11,800	155
160	51.9	196.9	9,300	54.6	195.1	10,100	57.1	190.7	10,800	160
165	50.3	192.8	8,500	53.0	190.9	9,300	55.5	186.4	10,000	165
170	48.8	188.3	7,800	51.4	186.4	8,500	53.9	181.8	9,100	170
175	47.2	183.7	7,100	49.8	181.7	7,700	52.2	176.9	8,400	175
180	45.5	178.7	6,400	48.1	176.7	7,100	50.5	171.8	7,600	180
185	43.8	173.5	5,800	46.4	171.4	6,400	48.7	166.3	6,900	185
190	42.0	167.9	5,200	44.6	165.7	5,800	46.9	160.4	6,300	190
195	40.2	161.9	4,700	42.8	159.7	5,200	45.0	154.2	5,600	195
200	38.3	155.6	4,100	40.9	153.2	4,600	43.0	147.5	5,000	200
205				38.8	146.3	4,100	40.9	140.3	4,400	205

MLC200 S-1

ASME B30.5



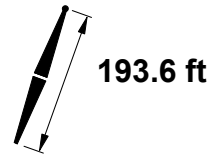
	5°			15°			25°			
 ft	 o	 ft	 lb	 o	 ft	 lb	 o	 ft	 lb	 ft
50	81.0	257.8	29,100							50
55	79.9	256.9	29,000							55
60	78.7	255.8	28,800							60
63	78.0	255.1	28,500	80.8	253.7	25,900				63
65	77.6	254.7	28,400	80.3	253.2	25,700				65
70	76.4	253.4	27,900	79.2	251.9	25,400				70
75	75.2	252.1	27,400	78.0	250.6	25,000	80.8	247.0	22,700	75
80	74.0	250.6	26,900	76.8	249.1	24,700	79.6	245.5	22,500	80
85	72.9	249.0	26,400	75.6	247.5	24,300	78.4	243.9	22,200	85
90	71.7	247.3	26,000	74.4	245.8	24,000	77.2	242.1	21,900	90
95	70.5	245.5	25,600	73.2	244.0	23,600	76.0	240.3	21,200	95
100	69.3	243.6	25,000	72.0	242.0	23,300	74.7	238.3	20,600	100
105	68.0	241.5	22,900	70.8	239.9	23,000	73.5	236.2	20,000	105
110	66.8	239.3	21,000	69.5	237.7	22,500	72.2	233.9	19,400	110
115	65.6	237.0	19,300	68.3	235.4	20,700	71.0	231.6	18,900	115
120	64.3	234.5	17,700	67.0	232.9	19,000	69.7	229.1	18,400	120
125	63.0	232.0	16,300	65.7	230.3	17,500	68.4	226.4	18,000	125
130	61.7	229.2	15,000	64.4	227.6	16,200	67.0	223.6	17,300	130
135	60.4	226.3	13,800	63.1	224.7	14,900	65.7	220.7	16,000	135
140	59.1	223.3	12,700	61.8	221.6	13,700	64.4	217.5	14,700	140
145	57.8	220.1	11,600	60.4	218.4	12,600	63.0	214.3	13,600	145
150	56.4	216.8	10,700	59.0	215.0	11,600	61.6	210.8	12,500	150
155	55.0	213.2	9,800	57.7	211.4	10,700	60.1	207.1	11,500	155
160	53.6	209.5	9,000	56.2	207.7	9,800	58.7	203.3	10,600	160
165	52.2	205.6	8,200	54.8	203.7	9,000	57.2	199.3	9,700	165
170	50.7	201.4	7,400	53.3	199.6	8,200	55.7	195.0	8,900	170
175	49.2	197.1	6,700	51.8	195.2	7,400	54.1	190.5	8,100	175
180	47.7	192.5	6,100	50.2	190.5	6,700	52.6	185.7	7,400	180
185	46.1	187.6	5,500	48.7	185.6	6,100	50.9	180.7	6,700	185
190	44.5	182.5	4,900	47.0	180.4	5,500	49.2	175.3	6,000	190
195	42.8	177.1	4,300	45.3	174.9	4,900	47.5	169.7	5,400	195
200				43.6	169.1	4,300	45.7	163.6	4,800	200
205							43.8	157.2	4,200	205



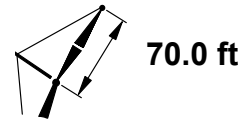
114,600 lb
+
0 lb



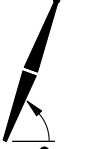
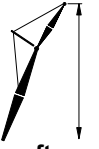
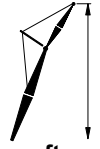
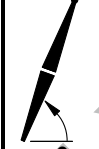
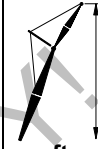
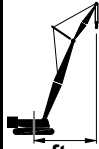
360°



193.6 ft

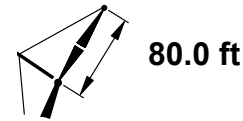
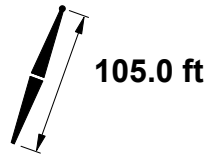
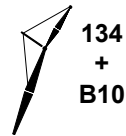


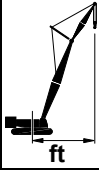
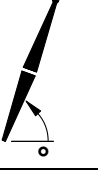
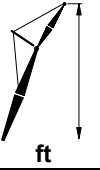
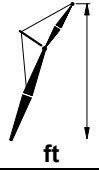
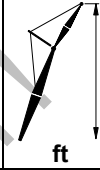
70.0 ft

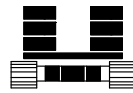
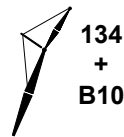
	5°			15°			25°			
										
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
52	80.9	267.4	28,800							52
55	80.3	266.9	28,700							55
60	79.1	265.9	28,500							60
64	78.3	265.0	28,300	80.9	263.5	25,800				64
65	78.0	264.8	28,300	80.7	263.3	25,800				65
70	76.9	263.6	27,900	79.6	262.1	25,400				70
75	75.8	262.3	27,400	78.5	260.8	25,100				75
76	75.6	262.0	27,300	78.2	260.5	25,000	81.0	256.9	22,700	76
80	74.7	260.9	27,000	77.3	259.4	24,700	80.0	255.7	22,500	80
85	73.5	259.3	26,500	76.2	257.8	24,400	78.9	254.1	22,200	85
90	72.4	257.7	26,100	75.0	256.2	24,100	77.7	252.5	22,000	90
95	71.2	256.0	25,700	73.9	254.4	23,700	76.5	250.7	21,500	95
100	70.1	254.1	24,500	72.7	252.6	23,400	75.4	248.8	20,900	100
105	68.9	252.1	22,400	71.5	250.6	23,100	74.2	246.8	20,300	105
110	67.7	250.1	20,500	70.3	248.5	22,100	73.0	244.7	19,800	110
115	66.5	247.8	18,800	69.1	246.3	20,300	71.7	242.4	19,300	115
120	65.3	245.5	17,200	67.9	243.9	18,600	70.5	240.0	18,700	120
125	64.1	243.0	15,800	66.7	241.4	17,100	69.3	237.5	18,300	125
130	62.9	240.4	14,500	65.5	238.8	15,700	68.0	234.8	17,000	130
135	61.7	237.7	13,300	64.2	236.0	14,500	66.7	232.0	15,600	135
140	60.4	234.8	12,200	63.0	233.1	13,300	65.5	229.1	14,400	140
145	59.1	231.8	11,200	61.7	230.1	12,200	64.2	225.9	13,200	145
150	57.8	228.6	10,200	60.4	226.9	11,200	62.8	222.7	12,100	150
155	56.5	225.3	9,300	59.1	223.5	10,200	61.5	219.2	11,100	155
160	55.2	221.7	8,500	57.7	220.0	9,300	60.1	215.6	10,200	160
165	53.9	218.0	7,700	56.4	216.2	8,500	58.7	211.8	9,300	165
170	52.5	214.2	6,900	55.0	212.3	7,700	57.3	207.8	8,500	170
175	51.1	210.1	6,200	53.6	208.2	7,000	55.9	203.6	7,700	175
180	49.6	205.8	5,600	52.1	203.9	6,300	54.4	199.2	7,000	180
185	48.2	201.3	5,000	50.6	199.3	5,600	52.9	194.5	6,300	185
190	46.7	196.5	4,400	49.1	194.5	5,000	51.3	189.5	5,600	190
195				47.6	189.4	4,400	49.7	184.3	5,000	195
200							48.1	178.8	4,400	200

MLC200 S-1

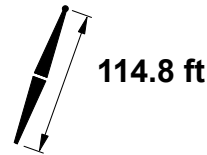
ASME B30.5



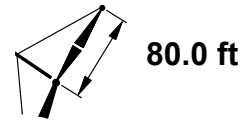
	5°			15°			25°			
 ft	 o	 ft	 lb	 o	 ft	 lb	 o	 ft	 lb	 ft
38	81.0	190.2	23,700							38
40	80.4	189.8	23,700							40
45	78.8	188.8	23,500							45
50	77.2	187.6	23,100							50
52	76.6	187.1	22,900	81.0	186.0	22,500				52
55	75.6	186.3	22,700	80.0	185.2	22,200				55
60	74.0	184.9	22,300	78.4	183.8	21,900				60
65	72.4	183.3	21,900	76.8	182.1	21,400				65
66	72.0	182.9	21,800	76.4	181.8	21,300	81.0	178.7	19,400	66
70	70.7	181.5	21,500	75.1	180.4	20,900	79.7	177.3	19,100	70
75	69.1	179.6	21,100	73.4	178.4	20,400	78.0	175.3	18,700	75
80	67.4	177.5	20,700	71.7	176.3	19,800	76.2	173.2	18,300	80
85	65.7	175.2	20,400	70.0	174.0	19,400	74.5	170.8	17,900	85
90	64.0	172.8	20,000	68.3	171.6	18,900	72.7	168.3	17,100	90
95	62.2	170.1	19,700	66.5	168.9	18,500	70.9	165.6	16,400	95
100	60.4	167.3	19,200	64.7	166.0	18,000	69.1	162.6	15,700	100
105	58.6	164.2	18,800	62.9	162.9	17,600	67.2	159.5	15,100	105
110	56.8	160.9	18,300	61.0	159.6	17,200	65.3	156.1	14,700	110
115	54.9	157.4	17,800	59.1	156.1	16,800	63.3	152.5	14,100	115
120	52.9	153.6	17,400	57.2	152.2	16,400	61.3	148.5	13,600	120
125	50.9	149.6	17,000	55.1	148.1	16,100	59.3	144.3	13,200	125
130	48.9	145.2	16,600	53.1	143.7	15,800	57.1	139.8	12,800	130
135	46.8	140.5	16,200	50.9	139.0	15,400	54.9	134.9	12,400	135
140	44.6	135.4	15,800	48.7	133.9	15,100	52.6	129.6	12,100	140
145	42.3	130.0	15,400	46.4	128.3	14,600	50.2	123.9	11,700	145
150	39.8	124.0	14,500	43.9	122.3	14,200	47.7	117.6	11,400	150
155	37.3	117.5	13,600	41.3	115.7	13,700	45.0	110.7	11,100	155
160	34.6	110.4	12,700	38.6	108.4	13,200	42.1	103.0	10,900	160
164	32.3	104.0	12,100	36.2	101.9	12,500	39.6	96.2	10,700	164
165	31.7	102.4	12,000	35.6	100.3	12,400				165
170	28.5	93.4	11,200	32.4	91.1	11,600				170
175	24.9	83.1	10,500	28.7	80.4	10,800				175
176	24.1	80.6	10,400	27.9	78.0	10,700				176
180	20.8	70.6	9,900							180
183	17.8	61.5	9,500							183



114,600 lb
+
0 lb



114.8 ft

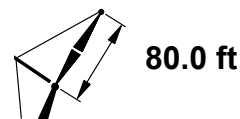
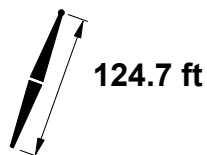
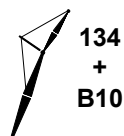


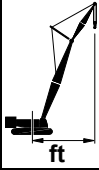
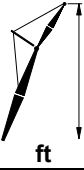
80.0 ft

	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
40	80.9	199.8	23,500							40
45	79.4	198.9	23,400							45
50	77.9	197.8	23,100							50
54	76.7	196.8	22,800	80.8	195.6	22,300				54
55	76.4	196.5	22,700	80.5	195.4	22,300				55
60	74.8	195.2	22,300	79.0	194.0	21,900				60
65	73.3	193.6	22,000	77.5	192.5	21,600				65
68	72.4	192.6	21,700	76.5	191.5	21,300	80.9	188.3	19,300	68
70	71.7	192.0	21,600	75.9	190.8	21,100	80.2	187.6	19,200	70
75	70.2	190.2	21,200	74.3	189.0	20,600	78.6	185.7	18,800	75
80	68.6	188.2	20,800	72.7	187.0	20,100	77.0	183.7	18,400	80
85	67.0	186.0	20,500	71.1	184.8	19,600	75.4	181.5	18,000	85
90	65.4	183.7	20,100	69.5	182.5	19,200	73.7	179.2	17,500	90
95	63.7	181.3	19,800	67.8	180.0	18,800	72.0	176.6	16,800	95
100	62.1	178.6	19,400	66.2	177.3	18,400	70.3	173.9	16,200	100
105	60.4	175.7	19,100	64.5	174.4	17,900	68.6	170.9	15,600	105
110	58.7	172.7	18,700	62.7	171.4	17,500	66.8	167.8	15,000	110
115	56.9	169.4	18,200	60.9	168.1	17,200	65.0	164.4	14,500	115
120	55.1	165.9	17,800	59.1	164.5	16,800	63.1	160.8	14,100	120
125	53.3	162.2	17,400	57.3	160.8	16,400	61.2	157.0	13,600	125
130	51.4	158.2	17,000	55.4	156.7	16,100	59.3	152.8	13,200	130
135	49.5	153.9	16,600	53.4	152.4	15,800	57.3	148.4	12,800	135
140	47.5	149.3	15,900	51.4	147.8	15,500	55.2	143.6	12,500	140
145	45.4	144.4	14,900	49.3	142.8	15,200	53.0	138.5	12,100	145
150	43.3	139.1	13,900	47.2	137.5	14,600	50.8	132.9	11,800	150
155	41.0	133.4	13,100	44.9	131.7	13,700	48.5	126.9	11,500	155
160	38.7	127.2	12,200	42.5	125.4	12,800	46.0	120.4	11,200	160
165	36.2	120.5	11,400	40.0	118.5	11,900	43.3	113.2	11,000	165
170	33.6	113.0	10,700	37.3	111.0	11,200	40.5	105.2	10,700	170
172	32.4	109.7	10,400	36.2	107.6	10,900	39.3	101.7	10,700	172
175	30.7	104.8	10,000	34.4	102.5	10,400				175
180	27.6	95.5	9,400	31.2	93.0	9,700				180
184	24.8	86.9	8,900	28.4	84.2	9,200				184
185	24.2	84.7	8,700							185
190	20.1	71.8	8,100							190
192	18.2	65.7	7,900							192

MLC200 S-1

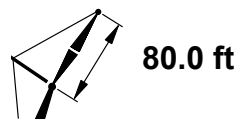
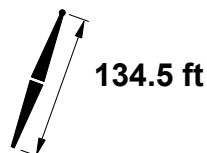
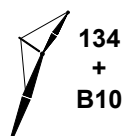
ASME B30.5



	5°			15°			25°			
										
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
41	81.0	209.6	23,800							41
45	79.9	208.9	23,300							45
50	78.5	207.9	23,100							50
55	77.0	206.7	22,800	81.0	205.5	22,300				55
60	75.6	205.4	22,400	79.6	204.2	21,900				60
65	74.1	203.9	22,000	78.1	202.7	21,600				65
70	72.7	202.4	21,600	76.6	201.1	21,300	80.7	197.9	19,300	70
75	71.2	200.6	21,300	75.1	199.4	20,800	79.2	196.1	18,900	75
80	69.7	198.8	20,900	73.6	197.5	20,400	77.7	194.2	18,600	80
85	68.2	196.8	20,600	72.1	195.5	19,900	76.1	192.1	18,200	85
90	66.6	194.6	20,200	70.6	193.3	19,500	74.6	189.9	17,900	90
95	65.1	192.3	19,900	69.0	191.0	19,100	73.0	187.5	17,200	95
100	63.5	189.8	19,600	67.4	188.4	18,600	71.4	184.9	16,600	100
105	62.0	187.1	19,300	65.8	185.8	18,200	69.8	182.2	16,000	105
110	60.3	184.2	19,000	64.2	182.9	17,800	68.1	179.3	15,400	110
115	58.7	181.2	18,700	62.6	179.8	17,500	66.4	176.1	14,900	115
120	57.0	177.9	18,200	60.9	176.5	17,100	64.7	172.8	14,400	120
125	55.3	174.5	17,800	59.2	173.0	16,800	62.9	169.2	14,000	125
130	53.6	170.8	17,500	57.4	169.3	16,500	61.1	165.4	13,600	130
135	51.8	166.8	16,600	55.6	165.3	16,200	59.3	161.3	13,200	135
140	50.0	162.6	15,500	53.8	161.1	15,800	57.4	156.9	12,800	140
145	48.1	158.1	14,500	51.9	156.6	15,200	55.4	152.3	12,500	145
150	46.2	153.4	13,500	49.9	151.7	14,200	53.4	147.3	12,200	150
155	44.2	148.2	12,600	47.9	146.5	13,300	51.3	141.9	11,900	155
160	42.1	142.7	11,800	45.8	140.9	12,400	49.1	136.2	11,600	160
165	39.9	136.8	11,000	43.6	134.9	11,600	46.9	129.9	11,300	165
170	37.6	130.3	10,300	41.2	128.4	10,800	44.4	123.1	11,100	170
175	35.2	123.3	9,600	38.8	121.3	10,100	41.9	115.6	10,500	175
179	33.1	117.2	9,100	36.7	115.0	9,500	39.7	109.0	9,900	179
180	32.6	115.6	8,900	36.2	113.4	9,400				180
185	29.9	107.1	8,300	33.3	104.7	8,700				185
190	26.8	97.5	7,700	30.2	94.8	8,100				190
193	24.8	90.8	7,400	28.2	88.1	7,700				193
195	23.4	86.4	7,200							195
200	19.4	73.0	6,600							200
202	17.6	66.7	6,400							202

MLC200 S-1

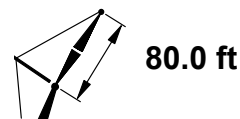
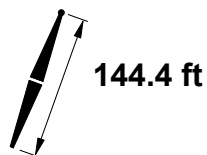
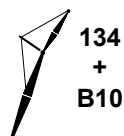
ASME B30.5

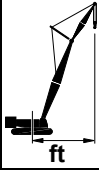
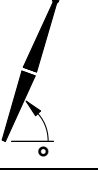
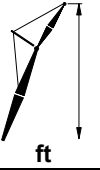
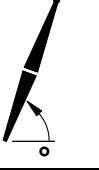
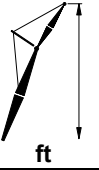
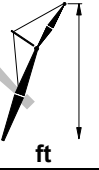


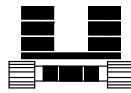
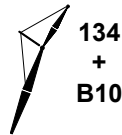
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
43	80.9	219.3	23,800							43
45	80.4	218.9	23,200							45
50	79.0	217.9	23,000							50
55	77.6	216.8	22,700							55
57	77.1	216.3	22,600	80.9	215.1	22,100				57
60	76.3	215.6	22,400	80.0	214.3	21,900				60
65	74.9	214.2	22,000	78.7	213.0	21,600				65
70	73.5	212.7	21,700	77.3	211.5	21,300				70
71	73.2	212.4	21,600	77.0	211.1	21,200	80.9	207.8	19,400	71
75	72.1	211.1	21,300	75.8	209.8	20,900	79.8	206.4	19,000	75
80	70.7	209.3	21,000	74.4	208.0	20,500	78.3	204.6	18,700	80
85	69.2	207.4	20,600	73.0	206.1	20,100	76.8	202.7	18,300	85
90	67.8	205.3	20,300	71.5	204.0	19,700	75.4	200.6	18,000	90
95	66.3	203.1	20,100	70.1	201.8	19,300	73.9	198.3	17,500	95
100	64.9	200.8	19,600	68.6	199.4	18,900	72.4	195.9	16,900	100
105	63.4	198.2	19,300	67.1	196.9	18,500	70.8	193.3	16,300	105
110	61.8	195.6	19,100	65.5	194.2	18,100	69.3	190.5	15,800	110
115	60.3	192.7	18,800	64.0	191.3	17,800	67.7	187.6	15,300	115
120	58.7	189.6	18,500	62.4	188.2	17,400	66.1	184.5	14,800	120
125	57.1	186.4	18,200	60.8	185.0	17,100	64.4	181.1	14,300	125
130	55.5	183.0	17,200	59.2	181.5	16,800	62.8	177.6	14,000	130
135	53.9	179.3	16,100	57.5	177.8	16,500	61.1	173.8	13,600	135
140	52.2	175.4	15,000	55.8	173.9	15,800	59.3	169.8	13,200	140
145	50.4	171.3	13,900	54.0	169.7	14,800	57.5	165.5	12,900	145
150	48.7	166.9	13,000	52.3	165.3	13,800	55.7	160.9	12,500	150
155	46.8	162.2	12,100	50.4	160.6	12,800	53.8	156.1	12,200	155
160	45.0	157.2	11,300	48.5	155.5	11,900	51.8	150.9	11,900	160
165	43.0	151.9	10,500	46.5	150.1	11,100	49.7	145.3	11,700	165
170	41.0	146.2	9,800	44.5	144.3	10,300	47.6	139.3	10,900	170
175	38.8	140.0	9,100	42.3	138.1	9,600	45.4	132.8	10,100	175
180	36.6	133.3	8,400	40.0	131.3	8,900	43.0	125.7	9,400	180
185	34.3	126.1	7,800	37.7	123.9	8,200	40.5	117.9	8,600	185
187	33.3	122.9	7,600	36.6	120.7	8,000	39.4	114.6	8,400	187
190	31.8	118.1	7,200	35.1	115.8	7,600				190
195	29.1	109.3	6,700	32.3	106.8	7,000				195
200	26.1	99.4	6,100	29.3	96.5	6,400				200
202	24.7	94.8	5,900	27.9	92.0	6,200				202
205	22.7	87.9	5,600							205
210	18.8	74.1	5,100							210
211	17.9	70.9	5,000							211

MLC200 S-1

ASME B30.5



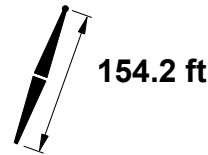
	5°			15°			25°			
 ft	 o	 ft	 lb	 o	 ft	 lb	 o	 ft	 lb	 ft
45	80.8	228.9	23,000							45
50	79.5	228.0	22,900							50
55	78.2	226.9	22,700							55
59	77.1	226.0	22,400	80.8	224.7	22,000				59
60	76.9	225.7	22,400	80.5	224.5	21,900				60
65	75.6	224.4	22,000	79.2	223.2	21,600				65
70	74.2	223.0	21,700	77.8	221.7	21,300				70
73	73.4	222.1	21,500	77.0	220.8	21,100	80.8	217.4	19,300	73
75	72.9	221.4	21,400	76.5	220.2	21,000	80.2	216.7	19,100	75
80	71.5	219.8	21,000	75.1	218.5	20,700	78.9	215.0	18,800	80
85	70.2	217.9	20,700	73.8	216.6	20,300	77.5	213.1	18,500	85
90	68.8	216.0	20,400	72.4	214.7	19,900	76.1	211.1	18,100	90
95	67.4	213.9	20,100	71.0	212.6	19,500	74.6	209.0	17,800	95
100	66.0	211.7	19,700	69.6	210.3	19,100	73.2	206.7	17,200	100
105	64.6	209.3	19,400	68.2	207.9	18,800	71.8	204.3	16,700	105
110	63.2	206.7	19,200	66.7	205.4	18,400	70.3	201.7	16,100	110
115	61.7	204.0	18,900	65.3	202.6	18,000	68.8	198.9	15,700	115
120	60.3	201.2	18,600	63.8	199.8	17,700	67.3	195.9	15,200	120
125	58.8	198.1	18,200	62.3	196.7	17,400	65.8	192.8	14,700	125
130	57.2	194.9	16,900	60.7	193.4	17,000	64.2	189.5	14,300	130
135	55.7	191.5	15,700	59.2	190.0	16,700	62.6	186.0	13,900	135
140	54.1	187.9	14,600	57.6	186.3	15,600	61.0	182.2	13,600	140
145	52.5	184.0	13,600	56.0	182.5	14,500	59.3	178.3	13,200	145
150	50.9	180.0	12,600	54.3	178.4	13,500	57.6	174.1	12,900	150
155	49.2	175.6	11,800	52.6	174.0	12,500	55.9	169.6	12,500	155
160	47.5	171.1	10,900	50.9	169.4	11,700	54.1	164.8	12,300	160
165	45.7	166.2	10,100	49.1	164.5	10,800	52.2	159.8	11,500	165
170	43.8	161.0	9,400	47.2	159.2	10,100	50.3	154.3	10,700	170
175	41.9	155.5	8,700	45.3	153.6	9,300	48.3	148.5	9,900	175
180	39.9	149.5	8,100	43.3	147.6	8,600	46.2	142.3	9,200	180
185	37.9	143.1	7,500	41.2	141.1	8,000	44.0	135.5	8,400	185
190	35.7	136.2	6,900	38.9	134.1	7,400	41.7	128.2	7,800	190
195	33.4	128.8	6,300	36.6	126.5	6,800	39.2	120.2	7,100	195
200	30.9	120.5	5,800	34.1	118.1	6,200				200
205	28.3	111.4	5,300	31.4	108.8	5,600				205
210	25.4	101.2	4,800	28.4	98.2	5,100				210
215	22.1	89.4	4,400							215



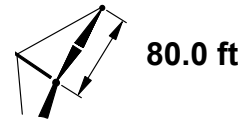
114,600 lb
+
0 lb



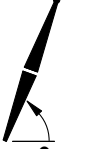
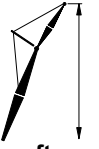
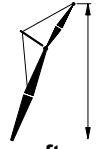
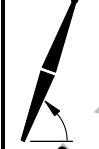
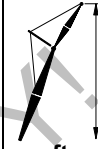
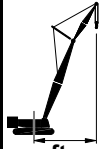
360°



154.2 ft

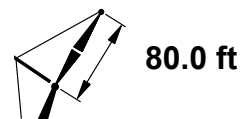
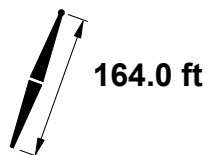
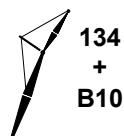


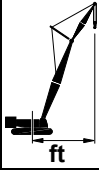
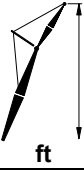
80.0 ft

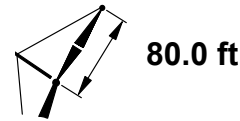
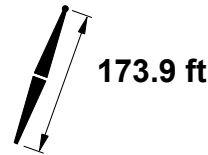
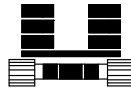
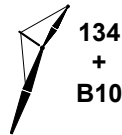
	5°			15°			25°			
										
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
46	80.9	238.7	22,800							46
50	79.9	238.0	22,800							50
55	78.7	237.0	22,600							55
60	77.4	235.9	22,300	80.9	234.6	21,900				60
65	76.2	234.6	22,000	79.6	233.3	21,600				65
70	74.9	233.2	21,700	78.4	231.9	21,300				70
74	73.9	232.1	21,400	77.3	230.7	21,100	80.9	227.3	19,300	74
75	73.6	231.8	21,400	77.1	230.5	21,000	80.7	226.9	19,200	75
80	72.4	230.2	21,000	75.8	228.8	20,700	79.4	225.3	18,900	80
85	71.1	228.4	20,700	74.5	227.1	20,400	78.0	223.5	18,500	85
90	69.8	226.6	20,400	73.2	225.2	20,100	76.7	221.6	18,300	90
95	68.4	224.6	20,100	71.9	223.2	19,700	75.4	219.6	18,000	95
100	67.1	222.5	19,800	70.5	221.1	19,300	74.0	217.4	17,500	100
105	65.8	220.2	19,500	69.2	218.8	19,000	72.6	215.1	17,000	105
110	64.4	217.8	19,200	67.8	216.4	18,600	71.2	212.6	16,500	110
115	63.0	215.2	18,900	66.4	213.8	18,300	69.8	210.0	16,000	115
120	61.6	212.5	18,700	65.0	211.1	17,900	68.4	207.2	15,500	120
125	60.2	209.6	17,700	63.6	208.2	17,600	66.9	204.3	15,100	125
130	58.8	206.6	16,400	62.2	205.1	17,300	65.5	201.2	14,600	130
135	57.3	203.4	15,200	60.7	201.9	16,300	64.0	197.9	14,300	135
140	55.9	200.0	14,100	59.2	198.5	15,100	62.5	194.4	13,900	140
145	54.4	196.4	13,100	57.7	194.9	14,000	60.9	190.7	13,500	145
150	52.8	192.6	12,100	56.1	191.0	13,000	59.3	186.8	13,200	150
155	51.3	188.6	11,200	54.5	187.0	12,100	57.7	182.6	12,900	155
160	49.7	184.4	10,400	52.9	182.7	11,200	56.0	178.2	12,000	160
165	48.0	179.9	9,600	51.3	178.2	10,400	54.3	173.5	11,100	165
170	46.3	175.1	8,900	49.6	173.3	9,600	52.6	168.6	10,300	170
175	44.6	170.0	8,200	47.8	168.2	8,900	50.8	163.3	9,500	175
180	42.8	164.7	7,600	46.0	162.8	8,200	48.9	157.7	8,800	180
185	40.9	158.9	7,000	44.1	157.0	7,500	46.9	151.7	8,100	185
190	39.0	152.8	6,400	42.1	150.7	6,900	44.9	145.2	7,400	190
195	37.0	146.2	5,800	40.1	144.1	6,300	42.7	138.2	6,800	195
200	34.8	139.1	5,300	37.9	136.8	5,700	40.5	130.7	6,100	200
202	33.9	136.0	5,100	37.0	133.7	5,500	39.5	127.4	5,900	202
205	32.6	131.3	4,800	35.6	129.0	5,200				205
210	30.2	122.9	4,300	33.2	120.3	4,700				210
215				30.5	110.7	4,200				215

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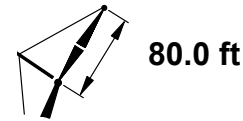
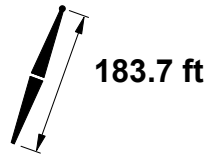
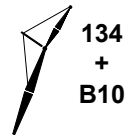
	5°			15°			25°			
 ft	 o	 ft	 lb	 o	 ft	 lb	 o	 ft	 lb	 ft
48	80.8	248.4	23,200							48
50	80.4	248.0	22,600							50
55	79.2	247.0	22,500							55
60	78.0	246.0	22,300							60
62	77.5	245.5	22,100	80.8	244.2	21,700				62
65	76.7	244.8	22,000	80.1	243.4	21,600				65
70	75.5	243.5	21,700	78.9	242.1	21,300				70
75	74.3	242.0	21,400	77.6	240.7	21,000				75
76	74.1	241.7	21,300	77.4	240.4	21,000	80.8	236.8	19,200	76
80	73.1	240.5	21,000	76.4	239.2	20,700	79.8	235.6	18,900	80
85	71.9	238.9	20,700	75.1	237.5	20,500	78.6	233.9	18,600	85
90	70.6	237.1	20,400	73.9	235.7	20,200	77.3	232.1	18,300	90
95	69.4	235.2	20,100	72.6	233.8	19,800	76.0	230.1	18,100	95
100	68.1	233.2	19,800	71.4	231.8	19,500	74.7	228.1	17,800	100
105	66.8	231.0	19,600	70.1	229.6	19,100	73.4	225.9	17,300	105
110	65.5	228.7	19,300	68.8	227.3	18,800	72.1	223.5	16,800	110
115	64.2	226.3	19,000	67.5	224.9	18,500	70.7	221.0	16,300	115
120	62.9	223.7	18,700	66.1	222.3	18,200	69.4	218.4	15,800	120
125	61.6	221.0	17,300	64.8	219.5	17,800	68.0	215.6	15,400	125
130	60.2	218.1	16,000	63.4	216.6	17,200	66.6	212.7	14,900	130
135	58.8	215.1	14,800	62.0	213.6	15,900	65.2	209.5	14,600	135
140	57.4	211.9	13,700	60.6	210.4	14,700	63.8	206.3	14,200	140
145	56.0	208.5	12,600	59.2	207.0	13,600	62.3	202.8	13,800	145
150	54.6	205.0	11,700	57.8	203.4	12,600	60.8	199.1	13,500	150
155	53.1	201.2	10,800	56.3	199.6	11,700	59.3	195.2	12,600	155
160	51.6	197.2	10,000	54.8	195.6	10,800	57.8	191.1	11,700	160
165	50.1	193.0	9,200	53.2	191.4	10,000	56.2	186.8	10,800	165
170	48.5	188.6	8,500	51.6	186.9	9,200	54.6	182.2	10,000	170
175	46.9	184.0	7,800	50.0	182.2	8,500	52.9	177.4	9,200	175
180	45.3	179.0	7,100	48.3	177.2	7,800	51.2	172.3	8,400	180
185	43.6	173.8	6,500	46.6	171.9	7,100	49.4	166.8	7,700	185
190	41.8	168.2	5,900	44.8	166.3	6,500	47.6	161.0	7,100	190
195	40.0	162.3	5,400	43.0	160.2	5,900	45.7	154.7	6,400	195
200	38.1	155.9	4,900	41.1	153.8	5,400	43.7	148.1	5,800	200
205	36.1	149.1	4,400	39.1	146.9	4,800	41.6	140.9	5,200	205
210				37.0	139.5	4,300	39.4	133.0	4,700	210

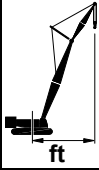
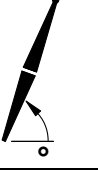
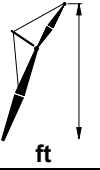
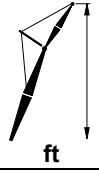
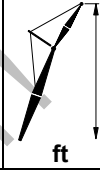


	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
49	81.0	258.2	23,100							49
50	80.7	258.0	23,000							50
55	79.6	257.1	22,300							55
60	78.4	256.0	22,100							60
63	77.7	255.3	22,000	80.9	254.0	21,600				63
65	77.3	254.9	21,900	80.5	253.6	21,500				65
70	76.1	253.6	21,600	79.3	252.3	21,300				70
75	74.9	252.3	21,300	78.1	250.9	21,000				75
77	74.5	251.7	21,200	77.6	250.3	20,900	81.0	246.7	19,200	77
80	73.8	250.8	21,000	76.9	249.5	20,700	80.2	245.8	19,000	80
85	72.6	249.2	20,700	75.8	247.9	20,500	79.0	244.2	18,700	85
90	71.4	247.5	20,400	74.6	246.2	20,200	77.8	242.5	18,400	90
95	70.2	245.7	20,100	73.3	244.3	20,000	76.6	240.6	18,200	95
100	69.0	243.8	19,900	72.1	242.4	19,700	75.4	238.6	17,900	100
105	67.8	241.7	19,600	70.9	240.3	19,300	74.1	236.5	17,600	105
110	66.5	239.5	19,300	69.7	238.1	19,000	72.8	234.3	17,100	110
115	65.3	237.2	19,000	68.4	235.8	18,600	71.6	231.9	16,600	115
120	64.0	234.8	18,200	67.1	233.3	18,400	70.3	229.4	16,100	120
125	62.8	232.2	16,700	65.9	230.7	18,100	69.0	226.8	15,700	125
130	61.5	229.5	15,400	64.6	228.0	16,700	67.7	224.0	15,300	130
135	60.2	226.6	14,300	63.3	225.1	15,500	66.3	221.0	14,900	135
140	58.9	223.6	13,100	61.9	222.0	14,300	65.0	217.9	14,500	140
145	57.5	220.4	12,100	60.6	218.8	13,200	63.6	214.6	14,200	145
150	56.2	217.0	11,200	59.2	215.4	12,200	62.2	211.2	13,200	150
155	54.8	213.5	10,300	57.8	211.9	11,300	60.8	207.6	12,200	155
160	53.4	209.8	9,400	56.4	208.1	10,400	59.3	203.7	11,300	160
165	51.9	205.8	8,700	55.0	204.2	9,500	57.9	199.7	10,400	165
170	50.5	201.7	7,900	53.5	200.0	8,800	56.3	195.4	9,600	170
175	49.0	197.4	7,300	52.0	195.6	8,000	54.8	190.9	8,800	175
180	47.4	192.8	6,600	50.4	191.0	7,300	53.2	186.2	8,000	180
185	45.9	187.9	6,000	48.8	186.1	6,700	51.6	181.1	7,300	185
190	44.3	182.8	5,400	47.2	180.9	6,100	49.9	175.8	6,700	190
195	42.6	177.4	4,900	45.5	175.5	5,500	48.2	170.2	6,000	195
200	40.9	171.7	4,300	43.8	169.6	4,900	46.4	164.1	5,400	200
205				42.0	163.4	4,400	44.5	157.7	4,900	205
210							42.5	150.8	4,300	210

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	5°			15°			25°			
										
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
51	80.9	267.8	22,900							51
55	80.0	267.1	22,100							55
60	78.9	266.1	22,000							60
65	77.8	265.0	21,800	80.8	263.6	21,500				65
70	76.6	263.8	21,600	79.7	262.4	21,200				70
75	75.5	262.5	21,300	78.6	261.1	21,000				75
79	74.6	261.4	21,300	77.7	260.0	20,800	80.9	256.3	19,100	79
80	74.4	261.1	21,300	77.4	259.7	20,700	80.6	256.0	19,000	80
85	73.3	259.6	20,700	76.3	258.2	20,500	79.5	254.5	18,800	85
90	72.1	257.9	20,400	75.2	256.5	20,200	78.3	252.8	18,500	90
95	71.0	256.2	20,200	74.0	254.8	20,000	77.1	251.0	18,200	95
100	69.8	254.4	19,900	72.8	252.9	19,700	75.9	249.1	18,000	100
105	68.6	252.4	19,600	71.7	251.0	19,500	74.8	247.1	17,800	105
110	67.5	250.3	19,300	70.5	248.9	19,200	73.5	245.0	17,400	110
115	66.3	248.1	19,100	69.3	246.6	18,800	72.3	242.7	16,900	115
120	65.1	245.8	17,800	68.1	244.3	18,500	71.1	240.4	16,400	120
125	63.9	243.3	16,400	66.9	241.8	17,800	69.9	237.8	16,000	125
130	62.6	240.7	15,100	65.6	239.2	16,400	68.6	235.2	15,500	130
135	61.4	238.0	13,900	64.4	236.4	15,100	67.3	232.4	15,100	135
140	60.1	235.1	12,800	63.1	233.5	14,000	66.1	229.4	14,800	140
145	58.9	232.1	11,800	61.8	230.5	12,900	64.8	226.3	14,000	145
150	57.6	228.9	10,800	60.5	227.3	11,900	63.4	223.0	12,900	150
155	56.3	225.5	9,900	59.2	223.9	10,900	62.1	219.6	11,900	155
160	55.0	222.0	9,100	57.9	220.4	10,100	60.7	216.0	11,000	160
165	53.6	218.3	8,300	56.5	216.7	9,200	59.3	212.2	10,100	165
170	52.2	214.4	7,600	55.1	212.8	8,400	57.9	208.2	9,300	170
175	50.8	210.4	6,900	53.7	208.6	7,700	56.5	204.0	8,500	175
180	49.4	206.1	6,200	52.3	204.3	7,000	55.0	199.6	7,800	180
185	47.9	201.6	5,600	50.8	199.8	6,400	53.5	194.9	7,100	185
190	46.4	196.8	5,000	49.3	195.0	5,700	51.9	190.0	6,400	190
195	44.9	191.8	4,500	47.7	189.9	5,200	50.3	184.8	5,800	195
200	43.3	186.5	4,000	46.1	184.6	4,600	48.7	179.3	5,200	200
205				44.5	178.9	4,100	47.0	173.4	4,600	205
210							45.2	167.2	4,100	210