

Liftcrane Jib Capacities

Jib No. 134 on
 Boom No. B10:76A
 149,600 lb Crane Counterweight
 60,400 lb Carbody Counterweight
 360 Degree Rating

MLC200 SERIES 2



LIFTING CAPACITIES: Chart supplements Boom Capacity chart **No. A002-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	11,000	10,700				
114.8	7	11,000	11,000	11,000	11,000	11,000	10,700				
124.7	7	11,000	11,000	11,000	11,000	11,000	10,700				
134.5	7	11,000	11,000	11,000	11,000	11,000	10,300				
144.4	7	11,000	11,000	11,000	10,900	9,900	8,800				
154.2	7	11,000	11,000	10,200	9,100	8,300	7,400				
164.0	7	10,200	9,500	8,600	7,700	6,900	6,100				
173.9	7	8,400	7,700	7,100	6,200	5,500	4,700				
183.7	7	6,700	6,000	5,200	4,400	3,700	#				
193.6	7	4,500	3,800	3,000	#	#	#				
203.4	7	#	#	#	#	#	#				
213.3	7	#	#	#	#	#	#				
223.1	7	#	#	Raising Not Permitted							
232.9	2										
242.8	2										
252.6	2										

Table 2

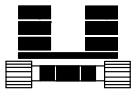
Over End of Blocked Crawlers							
Boom Length (ft)	Maximum Number of Lower Boom Point Sheaves	Jib No. 134					
		30.0 ft	40.0 ft	50.0 ft	60.0 ft	70.0 ft	80.0 ft
		Block Weight (lb)					
105.0	7	11,000	11,000	11,000	11,000	11,000	10,700
114.8	7	11,000	11,000	11,000	11,000	11,000	10,700
124.7	7	11,000	11,000	11,000	11,000	11,000	10,700
134.5	7	11,000	11,000	11,000	11,000	11,000	10,300
144.4	7	11,000	11,000	11,000	10,900	9,900	8,800
154.2	7	11,000	11,000	10,200	9,100	8,300	7,400
164.0	7	10,200	9,500	8,600	7,700	6,900	6,100
173.9	7	8,400	7,700	7,100	6,200	5,500	4,700
183.7	7	7,000	6,400	5,700	5,000	4,300	4,300
193.6	7	5,300	4,900	4,300	4,000	4,000	4,000
203.4	7	4,500	4,400	4,300	4,000	3,900	3,100
213.3	7	4,000	3,900	3,200	#	#	#
223.1	7	#	#	#	#	#	#
232.9	2	#	#	#	#	#	#
242.8	2	#	#	#	#	Raising Not Permitted	
252.6	2	#					
Warning: Crane must remain in-line with crawlers when raising over end of blocked crawlers until operating radius is within 360 degree chart. Crane tipping or structural damage can occur.							

Explanation of Symbols



134
+
B10

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



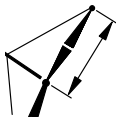
Crane Counterweight
+
Carbody Counterweight



360 Degree Rating



Boom Length



Jib Length



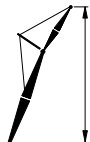
Jib Offset Angle



Operating Radius
(see page 1)



Boom Angle
(see page 1)



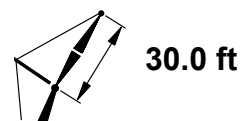
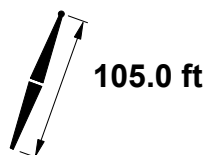
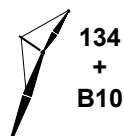
Jib Point Elevation
(see page 1)



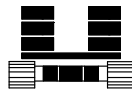
Lifting Capacities
(see page 1)

MLC200 S-2

ASME B30.5



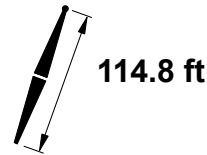
	5°			15°			25°			
	ft	o	ft	lb	ft	lb	ft	lb	ft	
29	80.8	140.8	63,000							29
30	80.4	140.6	63,000							30
34	78.7	139.8	63,000	80.9	139.0	60,700				34
35	78.2	139.6	63,000	80.5	138.8	60,400				35
39	76.5	138.6	63,000	78.7	137.8	59,500	81.0	136.1	50,900	39
40	76.0	138.3	63,000	78.3	137.5	59,300	80.5	135.8	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	58,500	69.2	130.4	55,400	71.3	128.5	41,600	60
65	64.7	128.9	57,400	66.8	128.0	54,600	68.9	126.1	40,000	65
70	62.3	126.2	56,400	64.4	125.4	53,900	66.5	123.5	38,500	70
75	59.8	123.4	55,400	61.9	122.5	53,300	64.0	120.5	37,100	75
80	57.3	120.2	52,600	59.4	119.3	52,600	61.4	117.2	35,900	80
85	54.7	116.7	48,300	56.8	115.7	48,900	58.7	113.6	34,800	85
90	52.0	112.8	44,500	54.1	111.8	45,000	55.9	109.6	33,800	90
95	49.2	108.5	41,100	51.3	107.5	41,600	53.1	105.3	32,900	95
100	46.3	103.8	38,100	48.3	102.8	38,600	50.0	100.4	32,000	100
105	43.3	98.6	35,400	45.2	97.5	35,800	46.9	94.9	31,300	105
110	40.0	92.8	33,000	41.9	91.6	33,400	43.4	88.8	30,700	110
112	38.6	90.1	32,100	40.5	88.9	32,500	42.0	86.2	30,400	112
115	36.5	86.2	30,800	38.3	84.9	31,100				115
120	32.6	78.6	28,800	34.4	77.2	29,000				120
124	29.2	71.5	27,300	30.9	70.0	27,500				124
125	28.3	69.7	27,000							125
130	23.2	58.8	25,300							130
132	20.8	53.6	24,600							132



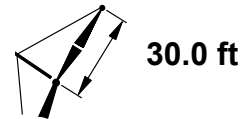
149,600 lb
+
60,400 lb



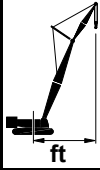
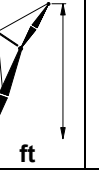
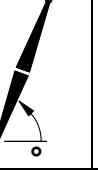
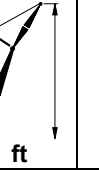
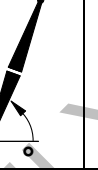
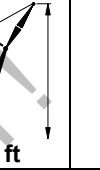
360°



114.8 ft

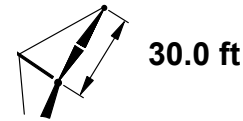
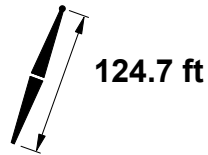
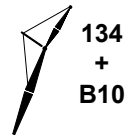


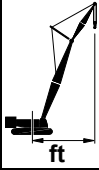
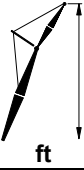
30.0 ft

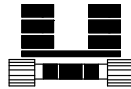
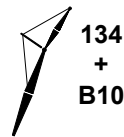
	5°			15°			25°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
31	80.7	150.4	63,000							31
35	79.0	149.6	63,000							35
36	78.6	149.4	63,000	80.7	148.6	60,300				36
40	77.0	148.5	63,000	79.1	147.7	59,400				40
41	76.6	148.2	62,900	78.7	147.4	59,200	80.8	145.7	50,600	41
45	75.0	147.1	62,700	77.0	146.3	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	59,100	70.7	141.1	55,800	72.7	139.2	42,700	60
65	66.5	139.8	58,000	68.5	138.9	55,000	70.5	137.0	41,100	65
70	64.3	137.4	57,100	66.3	136.5	54,300	68.3	134.6	39,600	70
75	62.1	134.7	56,100	64.1	133.9	53,600	66.0	131.9	38,200	75
80	59.8	131.8	52,200	61.8	130.9	52,900	63.6	128.9	37,000	80
85	57.5	128.7	47,800	59.4	127.7	48,500	61.2	125.7	35,900	85
90	55.1	125.2	44,000	57.0	124.3	44,600	58.8	122.1	34,800	90
95	52.6	121.4	40,700	54.5	120.4	41,200	56.2	118.2	33,900	95
100	50.0	117.2	37,700	51.9	116.2	38,200	53.6	113.9	33,000	100
105	47.3	112.7	35,000	49.2	111.6	35,400	50.8	109.2	32,200	105
110	44.5	107.7	32,600	46.4	106.6	33,000	47.9	104.0	31,500	110
115	41.6	102.1	30,400	43.4	101.0	30,700	44.8	98.3	30,900	115
119	39.0	97.2	28,800	40.8	95.9	29,100	42.2	93.2	29,300	119
120	38.4	96.0	28,400	40.2	94.7	28,700				120
125	35.0	89.0	26,500	36.7	87.6	26,800				125
130	31.3	81.1	24,800	32.9	79.5	25,000				130
133	28.8	75.5	23,900	30.4	74.0	24,100				133
135	27.1	71.7	23,300							135
140	22.2	60.3	21,800							140
142	19.9	54.8	21,200							142

MLC200 S-2

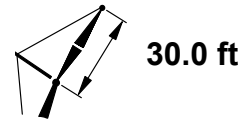
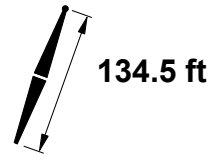
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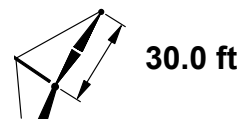
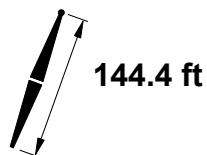
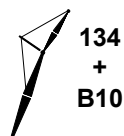
	5°			15°			25°			
 ft	 o	 ft	 lb	 o	 ft	 lb	 o	 ft	 lb	 ft
32	80.9	160.2	63,000							32
35	79.7	159.7	63,000							35
37	79.0	159.2	63,000	81.0	158.5	60,200				37
40	77.9	158.6	63,000	79.8	157.8	59,600				40
42	77.1	158.1	63,000	79.0	157.3	59,200	81.0	155.5	50,900	42
45	75.9	157.3	63,000	77.9	156.5	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	59,500	72.0	151.7	56,100	73.9	149.8	43,600	60
65	68.1	150.5	58,600	70.0	149.7	55,400	71.9	147.8	42,000	65
70	66.1	148.3	57,600	68.0	147.4	54,700	69.8	145.5	40,600	70
75	64.0	145.9	56,700	65.9	145.0	54,000	67.7	143.0	39,200	75
80	61.9	143.2	51,800	63.8	142.3	52,600	65.5	140.3	38,000	80
85	59.8	140.3	47,500	61.6	139.4	48,200	63.4	137.4	36,800	85
90	57.6	137.2	43,700	59.4	136.2	44,300	61.1	134.1	35,800	90
95	55.3	133.7	40,300	57.2	132.8	40,900	58.8	130.6	34,800	95
100	53.0	130.0	37,300	54.8	129.0	37,800	56.4	126.8	34,000	100
105	50.6	125.9	34,600	52.4	124.9	35,100	54.0	122.6	33,100	105
110	48.2	121.5	32,200	49.9	120.4	32,600	51.4	118.0	32,400	110
115	45.6	116.7	30,000	47.3	115.6	30,400	48.8	113.1	30,700	115
120	42.9	111.4	28,000	44.6	110.2	28,400	46.0	107.6	28,600	120
125	40.0	105.5	26,200	41.7	104.3	26,500	43.0	101.5	26,700	125
127	38.8	102.9	25,500	40.5	101.6	25,800	41.8	98.8	26,000	127
130	37.0	99.0	24,500	38.6	97.7	24,800				130
135	33.7	91.7	23,000	35.3	90.3	23,200				135
140	30.1	83.4	21,500	31.6	81.8	21,700				140
141	29.3	81.4	21,200	30.8	79.9	21,400				141
145	26.1	73.6	20,200							145
150	21.3	61.7	18,900							150
151	20.2	58.9	18,700							151



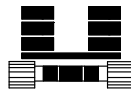
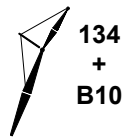
149,600 lb
+
60,400 lb



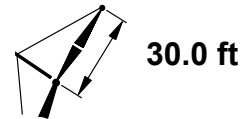
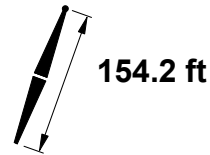
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
34	80.7	169.9	63,000							34
35	80.4	169.7	63,000							35
39	78.9	168.9	63,000	80.8	168.1	59,800				39
40	78.6	168.7	63,000	80.4	167.9	59,600				40
44	77.2	167.7	63,000	79.0	166.9	58,900	80.8	165.1	50,700	44
45	76.8	167.5	63,000	78.6	166.7	58,700	80.5	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	60,000	73.1	162.1	56,300	74.9	160.3	44,500	60
65	69.5	161.1	58,900	71.3	160.3	55,600	73.0	158.4	42,900	65
70	67.6	159.1	58,100	69.4	158.2	54,900	71.1	156.3	41,500	70
75	65.7	156.8	56,300	67.5	155.9	54,200	69.2	154.0	40,100	75
80	63.8	154.4	51,300	65.5	153.5	52,100	67.2	151.5	38,900	80
85	61.8	151.7	47,000	63.5	150.8	47,700	65.2	148.8	37,800	85
90	59.8	148.8	43,200	61.5	147.9	43,900	63.1	145.8	36,700	90
95	57.7	145.6	39,800	59.4	144.7	40,400	61.0	142.6	35,800	95
100	55.6	142.2	36,800	57.3	141.3	37,400	58.9	139.1	34,900	100
105	53.4	138.6	34,200	55.1	137.6	34,700	56.6	135.3	34,000	105
110	51.2	134.6	31,700	52.9	133.6	32,200	54.4	131.2	32,600	110
115	48.9	130.3	29,500	50.6	129.2	30,000	52.0	126.8	30,300	115
120	46.5	125.6	27,500	48.1	124.5	27,900	49.5	122.0	28,300	120
125	44.0	120.5	25,700	45.6	119.3	26,100	47.0	116.7	26,400	125
130	41.4	114.9	24,000	43.0	113.7	24,300	44.3	110.9	24,600	130
134	39.2	110.0	22,800	40.8	108.7	23,100	42.0	105.9	23,300	134
135	38.7	108.7	22,500	40.2	107.4	22,800				135
140	35.7	101.9	21,000	37.2	100.6	21,300				140
145	32.5	94.3	19,700	34.0	92.8	19,900				145
150	29.0	85.6	18,500	30.4	83.9	18,600				150
155	25.1	75.5	17,300							155
160	20.4	63.0	16,200							160



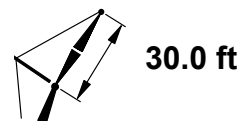
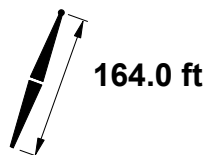
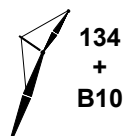
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
35	80.9	179.7	63,000							35
40	79.2	178.7	63,000	81.0	177.9	59,600				40
45	77.6	177.6	63,000	79.3	176.8	58,700	81.0	175.0	50,900	45
50	75.9	176.4	62,300	77.6	175.6	57,900	79.3	173.7	48,900	50
55	74.2	175.0	61,300	75.9	174.1	57,200	77.6	172.3	47,000	55
60	72.4	173.4	60,200	74.1	172.6	56,500	75.8	170.7	45,300	60
65	70.7	171.6	59,300	72.4	170.8	55,700	74.1	168.9	43,800	65
70	68.9	169.7	58,400	70.6	168.9	55,100	72.3	166.9	42,300	70
75	67.2	167.6	56,100	68.8	166.8	54,500	70.5	164.8	41,000	75
80	65.3	165.3	51,100	67.0	164.5	51,900	68.6	162.5	39,800	80
85	63.5	162.9	46,700	65.2	162.0	47,500	66.7	159.9	38,700	85
90	61.6	160.2	42,900	63.3	159.3	43,600	64.8	157.2	37,600	90
95	59.7	157.3	39,600	61.4	156.3	40,200	62.9	154.2	36,600	95
100	57.8	154.1	36,600	59.4	153.2	37,200	60.9	151.0	35,700	100
105	55.8	150.8	33,900	57.4	149.8	34,400	58.9	147.6	34,900	105
110	53.8	147.1	31,500	55.4	146.1	32,000	56.8	143.9	32,400	110
115	51.7	143.2	29,300	53.3	142.2	29,800	54.7	139.9	30,200	115
120	49.6	139.0	27,300	51.1	137.9	27,700	52.5	135.5	28,100	120
125	47.3	134.4	25,500	48.9	133.3	25,900	50.2	130.8	26,200	125
130	45.0	129.5	23,800	46.5	128.3	24,100	47.8	125.7	24,400	130
135	42.6	124.1	22,300	44.1	122.9	22,600	45.3	120.2	22,800	135
140	40.1	118.3	20,800	41.5	117.0	21,100	42.7	114.1	21,300	140
141	39.5	117.0	20,600	41.0	115.7	20,800	42.1	112.8	21,000	141
145	37.4	111.8	19,500	38.8	110.5	19,700				145
150	34.5	104.7	18,300	35.9	103.3	18,500				150
155	31.5	96.8	17,100	32.8	95.2	17,300				155
158	29.4	91.4	16,400	30.8	89.8	16,600				158
160	28.1	87.7	16,000							160
165	24.2	77.2	15,000							165
169	20.6	67.1	14,200							169



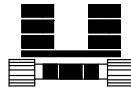
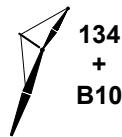
149,600 lb
+
60,400 lb



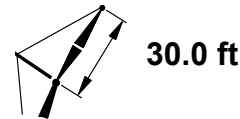
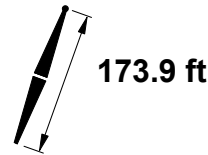
	5°			15°			25°			
ft	°	ft	lb	°	ft	lb	°	ft	lb	ft
37	80.8	189.3	63,000							37
40	79.8	188.8	63,000							40
42	79.2	188.4	63,000	80.8	187.6	59,200				42
45	78.2	187.7	63,000	79.9	186.9	58,700				45
47	77.6	187.3	62,700	79.2	186.4	58,400	80.9	184.6	50,800	47
50	76.6	186.6	62,400	78.3	185.7	57,900	79.9	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	60,500	75.0	182.9	56,600	76.6	181.0	46,100	60
65	71.8	182.1	59,500	73.4	181.2	55,900	75.0	179.3	44,600	65
70	70.1	180.3	58,600	71.7	179.4	55,300	73.3	177.5	43,100	70
75	68.4	178.3	55,600	70.0	177.4	54,700	71.6	175.5	41,800	75
80	66.8	176.2	50,600	68.3	175.3	51,500	69.9	173.3	40,600	80
85	65.0	173.9	46,300	66.6	173.0	47,100	68.1	170.9	39,500	85
90	63.3	171.3	42,500	64.9	170.4	43,200	66.3	168.4	38,400	90
95	61.5	168.6	39,100	63.1	167.7	39,800	64.5	165.6	37,400	95
100	59.7	165.7	36,100	61.3	164.8	36,800	62.7	162.7	36,500	100
105	57.9	162.6	33,400	59.4	161.7	34,000	60.8	159.5	34,600	105
110	56.0	159.3	31,000	57.5	158.3	31,600	58.9	156.1	32,100	110
115	54.1	155.7	28,800	55.6	154.7	29,300	57.0	152.4	29,800	115
120	52.1	151.8	26,800	53.6	150.8	27,300	55.0	148.5	27,700	120
125	50.1	147.7	25,000	51.6	146.6	25,400	52.9	144.2	25,800	125
130	48.0	143.2	23,300	49.5	142.1	23,700	50.8	139.6	24,000	130
135	45.9	138.4	21,800	47.3	137.3	22,100	48.5	134.7	22,400	135
140	43.6	133.2	20,300	45.1	132.1	20,700	46.2	129.4	20,900	140
145	41.3	127.6	19,000	42.7	126.4	19,300	43.8	123.6	19,500	145
149	39.3	122.7	18,000	40.7	121.4	18,300	41.8	118.5	18,500	149
150	38.8	121.5	17,800	40.2	120.2	18,000				150
155	36.2	114.8	16,600	37.6	113.4	16,900				155
160	33.5	107.4	15,600	34.8	105.9	15,700				160
165	30.5	99.2	14,500	31.7	97.5	14,700				165
167	29.1	95.4	14,100	30.4	93.9	14,300				167
170	27.2	89.8	13,600							170
175	23.4	78.8	12,700							175
179	19.9	68.3	12,000							179



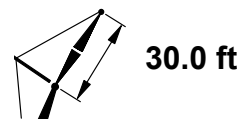
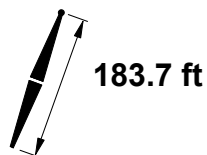
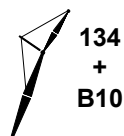
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
38	81.0	199.1	63,000							38
40	80.4	198.8	63,000							40
43	79.4	198.2	63,000	81.0	197.4	58,900				43
45	78.8	197.8	63,000	80.4	197.0	58,600				45
49	77.6	196.9	62,500	79.2	196.1	58,000	80.8	194.2	50,600	49
50	77.3	196.7	62,400	78.9	195.9	57,900	80.4	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	60,500	75.8	193.2	56,500	77.3	191.3	46,800	60
65	72.7	192.5	59,700	74.3	191.6	55,900	75.8	189.7	45,300	65
70	71.2	190.8	58,800	72.7	189.9	55,300	74.2	188.0	43,900	70
75	69.6	188.9	55,300	71.1	188.0	54,800	72.6	186.1	42,600	75
80	68.0	186.9	50,200	69.5	186.0	51,200	71.0	184.0	41,400	80
85	66.4	184.7	45,900	67.9	183.8	46,800	69.3	181.8	40,300	85
90	64.8	182.4	42,100	66.3	181.5	42,900	67.7	179.4	39,200	90
95	63.1	179.8	38,700	64.6	178.9	39,500	66.0	176.9	38,200	95
100	61.4	177.1	35,700	62.9	176.2	36,400	64.3	174.1	37,000	100
105	59.7	174.2	33,000	61.2	173.3	33,700	62.5	171.1	34,200	105
110	58.0	171.1	30,600	59.4	170.1	31,200	60.8	168.0	31,700	110
115	56.2	167.8	28,400	57.6	166.8	29,000	59.0	164.6	29,500	115
120	54.4	164.2	26,400	55.8	163.2	26,900	57.1	160.9	27,400	120
125	52.5	160.4	24,600	54.0	159.4	25,100	55.2	157.0	25,500	125
130	50.6	156.3	22,900	52.0	155.3	23,400	53.3	152.9	23,700	130
135	48.7	152.0	21,400	50.1	150.9	21,800	51.3	148.4	22,100	135
140	46.7	147.3	20,000	48.0	146.2	20,300	49.2	143.6	20,600	140
145	44.6	142.3	18,600	45.9	141.1	19,000	47.0	138.4	19,200	145
150	42.4	136.9	17,400	43.7	135.6	17,700	44.8	132.9	17,900	150
155	40.1	131.0	16,300	41.4	129.7	16,500	42.4	126.8	16,700	155
156	39.6	129.7	16,000	40.9	128.4	16,300	41.9	125.5	16,500	156
160	37.7	124.6	15,200	39.0	123.3	15,400				160
165	35.2	117.7	14,200	36.4	116.2	14,400				165
170	32.5	110.0	13,200	33.7	108.5	13,400				170
175	29.6	101.4	12,300	30.7	99.8	12,500				175
180	26.3	91.7	11,500							180
185	22.7	80.3	10,600							185
188	20.1	72.4	10,200							188

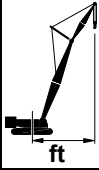
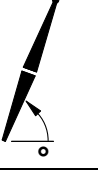
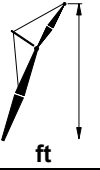
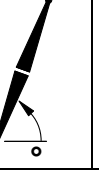
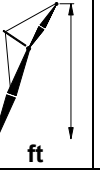
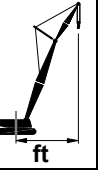


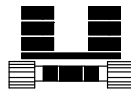
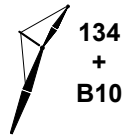
149,600 lb
+
60,400 lb



	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	56,500	76.5	200.0	46,000	55
60	75.1	204.3	60,500	75.1	201.9	55,900	75.0	198.4	44,600	60
65	73.6	202.8	59,700	73.6	200.3	55,300	73.5	196.6	43,300	65
70	72.1	201.2	58,900	72.1	198.5	54,800	72.0	194.7	42,100	70
75	70.6	199.4	54,800	70.6	196.6	50,800	70.4	192.6	41,000	75
80	69.1	197.5	49,800	69.0	194.6	46,300				80
85	67.6	195.5	45,400							85
90	66.1	193.3	41,600	67.5	192.3	42,500	68.9	190.3	39,900	90
95	64.5	190.9	38,300	65.9	190.0	39,000	67.3	187.9	39,000	95
100	62.9	188.3	35,300	64.3	187.4	36,000	65.7	185.3	36,600	100
105	61.3	185.6	32,600	62.7	184.7	33,200	64.0	182.5	33,900	105
110	59.7	182.7	30,100	61.1	181.7	30,800	62.4	179.6	31,300	110
115	58.1	179.6	27,900	59.4	178.6	28,500	60.7	176.4	29,000	115
120	56.4	176.3	25,900	57.7	175.3	26,500	59.0	173.1	27,000	120
125	54.6	172.8	24,100	56.0	171.7	24,600	57.2	169.5	25,100	125
130	52.9	169.0	22,400	54.2	168.0	22,900	55.4	165.6	23,300	130
135	51.1	165.0	20,900	52.4	163.9	21,300	53.6	161.5	21,700	135
140	49.2	160.7	19,500	50.6	159.6	19,900	51.7	157.1	20,200	140
145	47.3	156.1	18,100	48.6	155.0	18,500	49.8	152.5	18,800	145
150	45.4	151.2	16,900	46.7	150.1	17,200	47.7	147.4	17,500	150
155	43.3	146.0	15,800	44.6	144.8	16,100	45.6	142.1	16,300	155
160	41.2	140.4	14,700	42.5	139.1	15,000	43.5	136.2	15,200	160
163	39.9	136.7	14,100	41.1	135.4	14,300	42.1	132.5	14,500	163
165	39.0	134.3	13,700	40.2	133.0	13,900				165
170	36.7	127.7	12,700	37.9	126.3	12,900				170
175	34.2	120.5	11,800	35.4	119.0	12,000				175
180	31.6	112.5	11,000	32.7	110.9	11,200				180
184	29.3	105.4	10,300	30.4	103.8	10,500				184
185	28.7	103.6	10,200							185
190	25.5	93.6	9,400							190
195	22.0	81.8	8,700							195
197	20.3	76.5	8,400							197



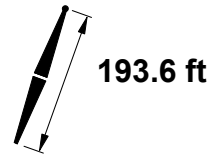
	5°			15°			25°			
										
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
41	81.0	218.6	63,000							41
45	79.9	217.9	63,000							45
46	79.6	217.7	62,800	81.0	216.8	58,100				46
50	78.5	216.9	62,100	79.9	216.0	57,600				50
52	78.0	216.4	61,800	79.4	215.6	57,300	80.8	213.7	50,600	52
55	77.1	215.7	61,200	78.6	214.9	57,000	80.0	213.0	49,600	55
60	75.8	214.5	60,500	77.2	213.6	56,400	78.6	211.7	48,100	60
65	74.4	213.1	59,600	75.8	212.2	55,800	77.1	210.3	46,600	65
70	73.0	211.5	58,900	74.4	210.7	55,200	75.7	208.7	45,200	70
75	71.6	209.9	54,500	72.9	209.0	54,700	74.3	207.0	44,000	75
80	70.1	208.1	49,500	71.5	207.2	50,500	72.8	205.2	42,800	80
85	68.7	206.1	45,100	70.1	205.2	46,100	71.4	203.2	41,700	85
90	67.2	204.0	41,300	68.6	203.1	42,200	69.9	201.1	40,600	90
95	65.8	201.8	37,900	67.1	200.9	38,700	68.4	198.8	39,500	95
100	64.3	199.4	34,900	65.6	198.5	35,700	66.9	196.4	36,400	100
105	62.8	196.8	32,300	64.1	195.9	32,900	65.4	193.8	33,600	105
110	61.2	194.1	29,800	62.6	193.1	30,500	63.8	191.0	31,100	110
115	59.7	191.2	27,600	61.0	190.2	28,200	62.2	188.0	28,800	115
120	58.1	188.1	25,600	59.4	187.1	26,200	60.6	184.9	26,700	120
125	56.5	184.8	23,800	57.8	183.8	24,300	59.0	181.5	24,800	125
130	54.9	181.3	22,100	56.2	180.3	22,600	57.3	178.0	23,100	130
135	53.2	177.6	20,600	54.5	176.5	21,000	55.6	174.2	21,400	135
140	51.5	173.6	19,200	52.8	172.5	19,600	53.9	170.1	20,000	140
145	49.7	169.4	17,900	51.0	168.3	18,200	52.1	165.9	18,600	145
150	47.9	164.9	16,600	49.2	163.8	17,000	50.3	161.3	17,300	150
155	46.1	160.2	15,500	47.3	159.0	15,800	48.4	156.4	16,100	155
160	44.2	155.1	14,400	45.4	153.9	14,700	46.4	151.2	14,900	160
165	42.2	149.6	13,400	43.4	148.4	13,700	44.4	145.5	13,900	165
170	40.1	143.8	12,400	41.3	142.5	12,700	42.2	139.5	12,900	170
171	39.7	142.5	12,300	40.9	141.2	12,500	41.8	138.2	12,700	171
175	38.0	137.4	11,600	39.1	136.1	11,800				175
180	35.7	130.6	10,700	36.8	129.2	10,900				180
185	33.3	123.1	9,900	34.4	121.6	10,100				185
190	30.7	114.9	9,200	31.8	113.3	9,300				190
192	29.6	111.3	8,900	30.7	109.7	9,000				192
195	27.9	105.8	8,400							195
200	24.8	95.4	7,800							200
205	21.3	83.2	7,100							205
206	20.5	80.5	7,000							206



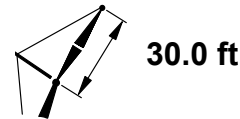
149,600 lb
+
60,400 lb



360°

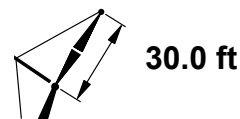
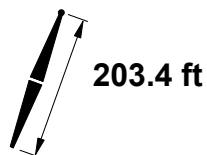
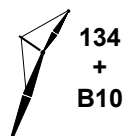


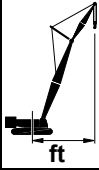
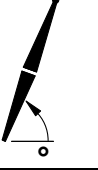
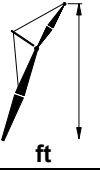
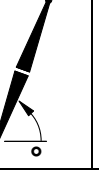
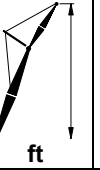
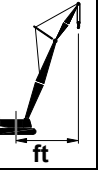
193.6 ft



30.0 ft

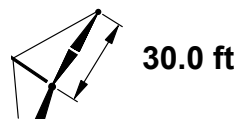
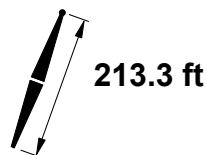
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
43	80.9	228.2	63,000							43
45	80.3	227.9	62,700							45
48	79.6	227.3	62,200	80.9	226.5	57,600				48
50	79.0	226.9	61,800	80.4	226.1	57,400				50
53	78.2	226.3	61,300	79.6	225.4	57,000	81.0	223.5	50,800	53
55	77.7	225.8	61,000	79.1	225.0	56,800	80.4	223.1	50,200	55
60	76.4	224.6	60,200	77.7	223.8	56,200	79.1	221.8	48,600	60
65	75.1	223.3	59,500	76.4	222.4	55,700	77.7	220.5	47,200	65
70	73.7	221.8	58,800	75.1	221.0	55,100	76.4	219.0	45,900	70
75	72.4	220.3	54,100	73.7	219.4	54,600	75.0	217.4	44,600	75
80	71.0	218.5	49,100	72.4	217.7	50,100	73.7	215.7	43,400	80
85	69.7	216.7	44,700	71.0	215.8	45,700	72.3	213.8	42,300	85
90	68.3	214.7	40,900	69.6	213.8	41,800	70.9	211.8	41,300	90
95	66.9	212.6	37,500	68.2	211.7	38,300	69.5	209.6	39,100	95
100	65.5	210.3	34,500	66.8	209.4	35,300	68.0	207.3	36,000	100
105	64.1	207.9	31,800	65.4	207.0	32,500	66.6	204.9	33,200	105
110	62.6	205.3	29,400	63.9	204.4	30,000	65.1	202.2	30,700	110
115	61.2	202.6	27,200	62.4	201.6	27,800	63.6	199.5	28,400	115
120	59.7	199.7	25,200	61.0	198.7	25,800	62.1	196.5	26,300	120
125	58.2	196.6	23,300	59.4	195.6	23,900	60.6	193.4	24,400	125
130	56.6	193.3	21,700	57.9	192.3	22,200	59.0	190.0	22,600	130
135	55.1	189.8	20,100	56.3	188.8	20,600	57.4	186.5	21,000	135
140	53.5	186.1	18,700	54.7	185.1	19,100	55.8	182.7	19,500	140
145	51.9	182.2	17,400	53.1	181.2	17,800	54.2	178.8	18,200	145
150	50.2	178.1	16,100	51.4	177.0	16,500	52.5	174.5	16,900	150
155	48.5	173.7	15,000	49.7	172.6	15,400	50.7	170.0	15,700	155
160	46.7	169.0	13,900	47.9	167.9	14,300	48.9	165.3	14,500	160
165	44.9	164.1	12,900	46.1	162.9	13,200	47.1	160.2	13,500	165
170	43.1	158.8	12,000	44.2	157.5	12,200	45.2	154.7	12,500	170
175	41.1	153.1	11,100	42.3	151.8	11,300	43.2	148.9	11,500	175
178	39.9	149.5	10,600	41.1	148.1	10,800	41.9	145.2	11,000	178
180	39.1	147.0	10,200	40.2	145.7	10,500				180
185	37.0	140.5	9,400	38.1	139.1	9,700				185
190	34.8	133.4	8,700	35.9	131.9	8,900				190
195	32.4	125.7	8,000	33.5	124.1	8,100				195
200	29.9	117.2	7,300	30.9	115.5	7,400				200
201	29.4	115.4	7,200	30.4	113.7	7,300				201
205	27.2	107.8	6,600							205
210	24.1	97.1	6,000							210
215	20.7	84.6	5,400							215
216	19.9	81.8	5,300							216



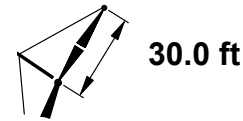
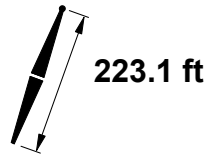
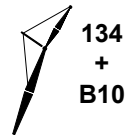
	5°			15°			25°			
 ft	 °	 ft	 lb	 °	 ft	 lb	 °	 ft	 lb	 ft
44	81.0	238.1	62,400							44
45	80.8	237.9	62,200							45
50	79.5	237.0	61,500	80.8	236.1	57,000				50
55	78.2	235.9	60,700	79.5	235.1	56,400	80.8	233.1	50,700	55
60	77.0	234.8	59,900	78.3	233.9	55,900	79.6	232.0	49,200	60
65	75.7	233.5	59,200	77.0	232.6	55,400	78.3	230.7	47,800	65
70	74.4	232.1	58,600	75.7	231.2	54,900	77.0	229.3	46,400	70
75	73.2	230.6	53,700	74.4	229.7	54,400	75.7	227.8	45,200	75
80	71.9	229.0	48,700	73.1	228.1	49,800	74.4	226.1	44,100	80
85	70.6	227.2	44,300	71.8	226.3	45,300	73.1	224.3	43,000	85
90	69.3	225.3	40,500	70.5	224.4	41,400	71.7	222.4	41,900	90
95	67.9	223.3	37,100	69.2	222.4	38,000	70.4	220.3	38,800	95
100	66.6	221.1	34,100	67.8	220.2	34,900	69.0	218.2	35,700	100
105	65.2	218.8	31,400	66.5	217.9	32,100	67.7	215.8	32,900	105
110	63.9	216.4	29,000	65.1	215.5	29,700	66.3	213.3	30,300	110
115	62.5	213.8	26,800	63.7	212.8	27,400	64.9	210.7	28,000	115
120	61.1	211.0	24,800	62.3	210.1	25,400	63.4	207.9	26,000	120
125	59.7	208.1	22,900	60.9	207.2	23,500	62.0	205.0	24,000	125
130	58.2	205.0	21,300	59.4	204.1	21,800	60.5	201.8	22,300	130
135	56.8	201.8	19,700	58.0	200.8	20,200	59.1	198.5	20,700	135
140	55.3	198.3	18,300	56.5	197.3	18,800	57.5	195.0	19,200	140
145	53.8	194.7	17,000	54.9	193.6	17,400	56.0	191.3	17,800	145
150	52.2	190.8	15,700	53.4	189.8	16,100	54.4	187.4	16,500	150
155	50.6	186.8	14,600	51.8	185.7	15,000	52.8	183.2	15,300	155
160	49.0	182.4	13,500	50.2	181.3	13,900	51.1	178.8	14,200	160
165	47.3	177.9	12,500	48.5	176.7	12,800	49.4	174.1	13,100	165
170	45.6	173.0	11,600	46.8	171.8	11,900	47.7	169.2	12,100	170
175	43.9	167.9	10,700	45.0	166.6	11,000	45.9	163.9	11,200	175
180	42.0	162.4	9,800	43.1	161.1	10,100	44.0	158.2	10,300	180
185	40.2	156.5	9,000	41.2	155.2	9,300	42.1	152.2	9,500	185
190	38.2	150.2	8,300	39.2	148.9	8,500				190
195	36.1	143.5	7,600	37.2	142.0	7,800				195
200	33.9	136.2	6,900	35.0	134.7	7,100				200
205	31.6	128.2	6,300	32.6	126.6	6,400				205
209	29.7	121.2	5,800	30.6	119.6	5,900				209
210	29.2	119.5	5,600							210
215	26.5	109.8	5,100							215
220	23.5	98.7	4,500							220

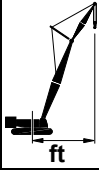
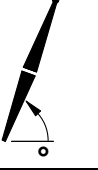
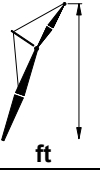
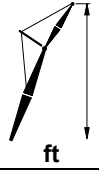
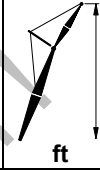


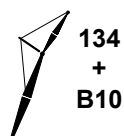
149,600 lb
+
60,400 lb



	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
46	80.9	247.7	61,500							46
50	79.9	247.0	61,000							50
51	79.7	246.8	60,800	80.9	245.9	56,500				51
55	78.7	246.0	60,200	80.0	245.1	56,100				55
56	78.5	245.8	60,100	79.7	244.9	56,000	81.0	243.0	50,900	56
60	77.5	244.9	59,500	78.8	244.0	55,600	80.0	242.1	49,700	60
65	76.3	243.7	58,900	77.5	242.8	55,100	78.8	240.9	48,300	65
70	75.1	242.3	58,200	76.3	241.5	54,600	77.5	239.5	47,000	70
75	73.9	240.9	53,300	75.1	240.0	54,100	76.3	238.0	45,800	75
80	72.6	239.3	48,200	73.9	238.4	49,400	75.0	236.5	44,600	80
85	71.4	237.7	43,800	72.6	236.8	44,900	73.8	234.8	43,600	85
90	70.1	235.8	40,000	71.3	235.0	41,000	72.5	232.9	42,000	90
95	68.9	233.9	36,600	70.1	233.0	37,500	71.2	231.0	38,400	95
100	67.6	231.9	33,600	68.8	230.9	34,500	70.0	228.9	35,300	100
105	66.3	229.7	30,900	67.5	228.8	31,700	68.6	226.7	32,500	105
110	65.0	227.4	28,500	66.2	226.4	29,200	67.3	224.3	29,900	110
115	63.7	224.9	26,300	64.9	223.9	27,000	66.0	221.8	27,600	115
120	62.4	222.3	24,300	63.6	221.3	24,900	64.7	219.2	25,500	120
125	61.0	219.5	22,500	62.2	218.6	23,100	63.3	216.4	23,600	125
130	59.7	216.6	20,800	60.8	215.6	21,300	61.9	213.4	21,900	130
135	58.3	213.5	19,200	59.4	212.5	19,800	60.5	210.3	20,300	135
140	56.9	210.3	17,800	58.0	209.3	18,300	59.1	207.0	18,800	140
145	55.5	206.9	16,500	56.6	205.8	16,900	57.6	203.5	17,400	145
150	54.0	203.2	15,200	55.1	202.2	15,700	56.1	199.8	16,100	150
155	52.5	199.4	14,100	53.6	198.4	14,500	54.6	195.9	14,900	155
160	51.0	195.4	13,000	52.1	194.3	13,400	53.1	191.8	13,700	160
165	49.5	191.1	12,000	50.6	190.0	12,400	51.5	187.5	12,700	165
170	47.9	186.7	11,100	49.0	185.5	11,400	49.9	182.9	11,700	170
175	46.3	181.9	10,200	47.3	180.7	10,500	48.2	178.1	10,800	175
180	44.6	176.9	9,300	45.7	175.7	9,600	46.5	172.9	9,900	180
185	42.9	171.5	8,500	43.9	170.3	8,800	44.8	167.5	9,000	185
190	41.1	165.9	7,800	42.1	164.6	8,000	42.9	161.6	8,200	190
193	40.0	162.2	7,400	41.0	160.9	7,600	41.8	157.9	7,800	193
195	39.2	159.8	7,100	40.3	158.5	7,300				195
200	37.3	153.3	6,400	38.3	151.9	6,600				200
205	35.3	146.4	5,800	36.3	144.9	6,000				205
210	33.2	138.8	5,200	34.1	137.3	5,300				210
215	30.9	130.7	4,600	31.8	129.0	4,700				215
218	29.4	125.3	4,200	30.4	123.6	4,400				218
220	28.5	121.7	4,000							220



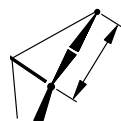
	5°			15°			25°			
 ft	 °	 ft	 lb	 °	 ft	 lb	 °	 ft	 lb	 ft
47	81.0	257.5	61,000							47
50	80.3	257.0	60,500							50
53	79.6	256.4	60,100	80.8	255.6	55,900				53
55	79.2	256.0	59,800	80.4	255.2	55,800				55
58	78.5	255.4	59,400	79.7	254.5	55,500	80.9	252.6	50,700	58
60	78.0	255.0	59,200	79.2	254.1	55,200	80.4	252.2	50,200	60
65	76.9	253.8	58,500	78.0	252.9	54,700	79.2	251.0	48,800	65
70	75.7	252.5	57,800	76.9	251.7	54,200	78.0	249.7	47,500	70
75	74.5	251.2	52,800	75.7	250.3	53,800	76.9	248.3	46,300	75
80	73.3	249.7	47,800	74.5	248.8	48,900	75.7	246.8	45,200	80
85	72.1	248.0	43,400	73.3	247.2	44,500	74.5	245.2	44,100	85
90	70.9	246.3	39,500	72.1	245.4	40,600	73.2	243.4	41,600	90
95	69.7	244.5	36,200	70.9	243.6	37,100	72.0	241.5	38,000	95
100	68.5	242.5	33,200	69.7	241.6	34,000	70.8	239.6	34,900	100
105	67.3	240.4	30,500	68.4	239.5	31,300	69.5	237.4	32,100	105
110	66.1	238.2	28,000	67.2	237.3	28,800	68.3	235.2	29,500	110
115	64.8	235.9	25,800	65.9	234.9	26,500	67.0	232.8	27,200	115
120	63.5	233.4	23,800	64.7	232.4	24,500	65.7	230.3	25,100	120
125	62.3	230.8	22,000	63.4	229.8	22,600	64.4	227.6	23,200	125
130	61.0	228.0	20,300	62.1	227.0	20,900	63.1	224.8	21,500	130
135	59.7	225.1	18,800	60.8	224.1	19,300	61.8	221.9	19,800	135
140	58.3	222.0	17,300	59.4	221.0	17,900	60.5	218.8	18,300	140
145	57.0	218.8	16,000	58.1	217.8	16,500	59.1	215.5	17,000	145
150	55.6	215.4	14,800	56.7	214.3	15,200	57.7	212.0	15,700	150
155	54.2	211.8	13,600	55.3	210.7	14,100	56.3	208.4	14,500	155
160	52.8	208.0	12,600	53.9	206.9	13,000	54.8	204.5	13,300	160
165	51.4	204.0	11,500	52.4	202.9	11,900	53.4	200.5	12,300	165
170	49.9	199.8	10,600	50.9	198.7	11,000	51.9	196.2	11,300	170
175	48.4	195.4	9,700	49.4	194.3	10,100	50.3	191.7	10,300	175
180	46.8	190.8	8,900	47.9	189.6	9,200	48.7	186.9	9,500	180
185	45.2	185.8	8,100	46.3	184.6	8,400	47.1	181.9	8,600	185
190	43.6	180.6	7,300	44.6	179.4	7,600	45.4	176.6	7,800	190
195	41.9	175.1	6,600	42.9	173.8	6,900	43.7	170.9	7,100	195
200	40.2	169.3	6,000	41.2	167.9	6,200	41.9	164.9	6,400	200
205	38.4	163.0	5,300	39.3	161.6	5,500				205
210	36.5	156.3	4,700	37.4	154.9	4,900				210
215	34.5	149.2	4,100	35.4	147.6	4,300				215



149,600 lb
+
60,400 lb



232.9 ft

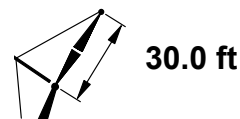
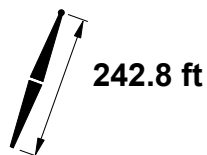
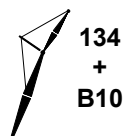


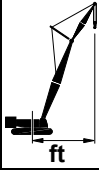
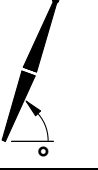
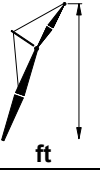
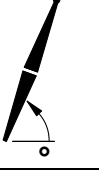
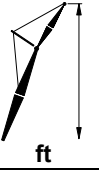
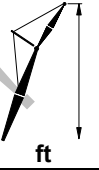
30.0 ft

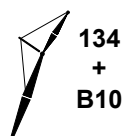
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
49	80.9	267.2	60,200							49
50	80.7	267.0	60,000							50
54	79.8	266.3	59,400	81.0	265.4	55,500				54
55	79.6	266.1	59,300	80.7	265.2	55,400				55
59	78.7	265.3	58,800	79.8	264.4	55,000	81.0	262.4	50,900	59
60	78.5	265.1	58,700	79.6	264.2	54,900	80.8	262.2	50,600	60
65	77.4	263.9	58,100	78.5	263.1	54,400	79.6	261.1	49,300	65
70	76.2	262.7	57,500	77.4	261.8	53,900	78.5	259.9	48,000	70
75	75.1	261.4	53,000	76.2	260.5	53,500	77.4	258.5	46,800	75
80	74.0	259.9	47,900	75.1	259.1	49,100	76.2	257.1	45,700	80
85	72.8	258.4	43,500	74.0	257.5	44,600	75.1	255.5	44,600	85
90	71.7	256.7	39,700	72.8	255.9	40,700	73.9	253.8	41,700	90
95	70.5	255.0	36,300	71.6	254.1	37,200	72.7	252.0	38,200	95
100	69.4	253.1	33,300	70.5	252.2	34,200	71.6	250.1	35,000	100
105	68.2	251.1	30,600	69.3	250.2	31,400	70.4	248.1	32,200	105
110	67.0	249.0	28,100	68.1	248.1	28,900	69.2	246.0	29,700	110
115	65.8	246.8	25,900	66.9	245.8	26,700	68.0	243.7	27,400	115
120	64.6	244.4	23,900	65.7	243.4	24,600	66.7	241.3	25,300	120
125	63.4	241.9	22,100	64.5	240.9	22,700	65.5	238.8	23,400	125
130	62.2	239.3	20,400	63.2	238.3	21,000	64.3	236.1	21,600	130
135	60.9	236.5	18,900	62.0	235.5	19,400	63.0	233.3	20,000	135
140	59.7	233.6	17,400	60.7	232.6	18,000	61.7	230.3	18,500	140
145	58.4	230.5	16,100	59.4	229.5	16,600	60.4	227.2	17,100	145
150	57.1	227.3	14,900	58.1	226.2	15,400	59.1	224.0	15,800	150
155	55.8	223.9	13,700	56.8	222.8	14,200	57.8	220.5	14,600	155
160	54.4	220.3	12,700	55.5	219.3	13,100	56.4	216.9	13,500	160
165	53.1	216.6	11,700	54.1	215.5	12,100	55.0	213.1	12,400	165
170	51.7	212.6	10,700	52.7	211.5	11,100	53.6	209.1	11,400	170
175	50.3	208.5	9,800	51.3	207.4	10,200	52.2	204.9	10,500	175
180	48.8	204.2	9,000	49.8	203.0	9,300	50.7	200.5	9,600	180
185	47.3	199.6	8,200	48.4	198.4	8,500	49.2	195.8	8,800	185
190	45.8	194.8	7,500	46.8	193.6	7,700	47.6	190.9	8,000	190
195	44.3	189.7	6,700	45.3	188.4	7,000	46.1	185.7	7,200	195
200	42.7	184.3	6,100	43.7	183.0	6,300	44.4	180.2	6,500	200
205	41.0	178.6	5,400	42.0	177.3	5,700	42.7	174.3	5,800	205
207	40.3	176.2	5,200	41.3	174.9	5,400	42.0	171.9	5,600	207
210	39.3	172.6	4,800	40.3	171.2	5,000				210
215	37.5	166.1	4,200	38.5	164.7	4,400				215

MLC200 S-2

ASME B30.5



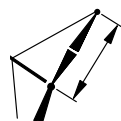
	5°			15°			25°			
 ft	 o	 ft	 lb	 o	 ft	 lb	 o	 ft	 lb	 ft
50	81.0	277.0	59,400							50
55	80.0	276.1	58,700							55
56	79.7	275.9	58,600	80.9	275.0	54,800				56
60	78.9	275.1	58,100	80.0	274.2	54,400				60
61	78.7	274.9	58,000	79.8	274.0	54,400	80.9	272.1	50,800	61
65	77.8	274.0	57,500	78.9	273.2	54,000	80.0	271.2	49,700	65
70	76.7	272.9	56,900	77.8	272.0	53,600	78.9	270.0	48,500	70
75	75.7	271.6	52,600	76.8	270.7	53,100	77.8	268.7	47,300	75
80	74.6	270.2	47,500	75.7	269.3	48,700	76.7	267.3	46,200	80
85	73.5	268.7	43,100	74.6	267.8	44,300	75.6	265.8	45,200	85
90	72.4	267.1	39,300	73.5	266.2	40,300	74.5	264.2	41,400	90
95	71.3	265.4	35,900	72.3	264.5	36,900	73.4	262.5	37,800	95
100	70.1	263.6	32,900	71.2	262.7	33,800	72.3	260.7	34,700	100
105	69.0	261.7	30,200	70.1	260.8	31,000	71.1	258.7	31,900	105
110	67.9	259.7	27,700	69.0	258.8	28,500	70.0	256.7	29,300	110
115	66.7	257.5	25,500	67.8	256.6	26,300	68.8	254.5	27,000	115
120	65.6	255.3	23,500	66.7	254.3	24,200	67.7	252.2	24,900	120
125	64.4	252.9	21,700	65.5	251.9	22,400	66.5	249.8	23,000	125
130	63.3	250.4	20,000	64.3	249.4	20,600	65.3	247.3	21,200	130
135	62.1	247.7	18,500	63.1	246.8	19,000	64.1	244.6	19,600	135
140	60.9	245.0	17,000	61.9	244.0	17,600	62.9	241.8	18,100	140
145	59.6	242.0	15,700	60.7	241.0	16,200	61.6	238.8	16,700	145
150	58.4	239.0	14,500	59.4	238.0	15,000	60.4	235.7	15,400	150
155	57.2	235.8	13,300	58.2	234.7	13,800	59.1	232.4	14,200	155
160	55.9	232.4	12,200	56.9	231.3	12,700	57.8	229.0	13,100	160
165	54.6	228.8	11,200	55.6	227.8	11,700	56.5	225.4	12,000	165
170	53.3	225.1	10,300	54.3	224.1	10,700	55.2	221.7	11,000	170
175	52.0	221.2	9,400	53.0	220.2	9,800	53.8	217.7	10,100	175
180	50.6	217.2	8,600	51.6	216.1	8,900	52.5	213.5	9,200	180
185	49.2	212.9	7,800	50.2	211.7	8,100	51.1	209.2	8,400	185
190	47.8	208.4	7,000	48.8	207.2	7,300	49.6	204.6	7,600	190
195	46.4	203.6	6,300	47.3	202.5	6,600	48.1	199.8	6,900	195
200	44.9	198.7	5,600	45.8	197.4	5,900	46.6	194.7	6,100	200
205	43.4	193.4	5,000	44.3	192.2	5,300	45.1	189.3	5,500	205
210	41.8	187.9	4,400	42.7	186.6	4,600	43.5	183.6	4,800	210
215				41.1	180.7	4,000	41.8	177.6	4,200	215



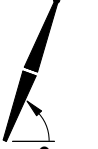
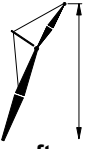
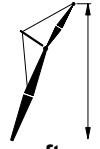
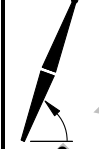
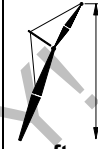
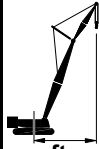
149,600 lb
+
60,400 lb



252.6 ft

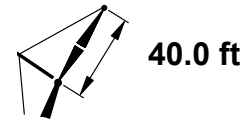
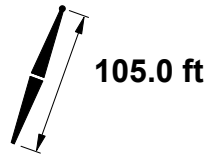
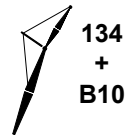


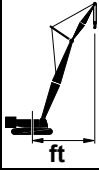
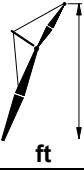
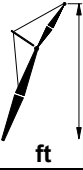
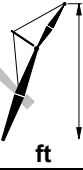
30.0 ft

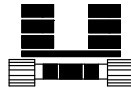
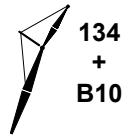
	5°			15°			25°			
										
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
52	80.9	286.6	58,400							52
55	80.3	286.1	58,000							55
57	79.9	285.7	57,800	81.0	284.9	54,200				57
60	79.3	285.1	57,400	80.4	284.3	54,000				60
62	78.9	284.7	57,200	79.9	283.9	53,800	81.0	281.9	50,600	62
65	78.3	284.1	56,900	79.3	283.2	53,500	80.4	281.3	50,100	65
70	77.2	283.0	56,300	78.3	282.1	53,100	79.3	280.1	48,900	70
75	76.2	281.7	52,200	77.2	280.9	52,700	78.3	278.9	47,800	75
80	75.1	280.4	47,100	76.2	279.5	48,400	77.2	277.5	46,700	80
85	74.1	279.0	42,700	75.1	278.1	43,900	76.2	276.1	45,000	85
90	73.0	277.5	38,900	74.1	276.6	39,900	75.1	274.6	41,000	90
95	71.9	275.8	35,500	73.0	274.9	36,500	74.0	272.9	37,500	95
100	70.9	274.1	32,400	71.9	273.2	33,400	72.9	271.2	34,300	100
105	69.8	272.3	29,700	70.8	271.4	30,600	71.8	269.3	31,500	105
110	68.7	270.3	27,300	69.7	269.4	28,100	70.7	267.3	28,900	110
115	67.6	268.3	25,100	68.6	267.3	25,900	69.6	265.2	26,600	115
120	66.5	266.1	23,100	67.5	265.2	23,800	68.5	263.0	24,500	120
125	65.4	263.8	21,200	66.4	262.9	21,900	67.4	260.7	22,600	125
130	64.3	261.4	19,500	65.3	260.4	20,200	66.2	258.3	20,800	130
135	63.1	258.9	18,000	64.1	257.9	18,600	65.1	255.7	19,200	135
140	62.0	256.2	16,500	63.0	255.2	17,100	63.9	253.1	17,700	140
145	60.8	253.4	15,200	61.8	252.4	15,800	62.7	250.2	16,300	145
150	59.6	250.5	14,000	60.6	249.5	14,500	61.6	247.3	15,000	150
155	58.5	247.5	12,800	59.4	246.4	13,300	60.3	244.2	13,800	155
160	57.2	244.3	11,800	58.2	243.2	12,200	59.1	240.9	12,700	160
165	56.0	240.9	10,700	57.0	239.9	11,200	57.9	237.5	11,600	165
170	54.8	237.4	9,800	55.8	236.3	10,200	56.6	233.9	10,600	170
175	53.5	233.7	8,900	54.5	232.6	9,300	55.4	230.2	9,700	175
180	52.2	229.8	8,100	53.2	228.8	8,500	54.1	226.3	8,800	180
185	50.9	225.8	7,300	51.9	224.7	7,600	52.7	222.2	7,900	185
190	49.6	221.6	6,500	50.6	220.4	6,900	51.4	217.9	7,200	190
195	48.3	217.1	5,800	49.2	216.0	6,100	50.0	213.4	6,400	195
200	46.9	212.5	5,200	47.8	211.3	5,500	48.6	208.6	5,700	200
205	45.5	207.6	4,500	46.4	206.4	4,800	47.1	203.6	5,000	205
210				44.9	201.2	4,200	45.7	198.4	4,400	210

MLC200 S-2

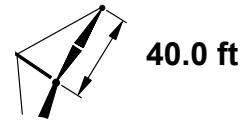
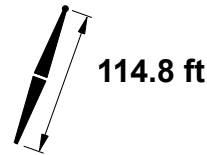
ASME B30.5



	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	45,300	65.4	133.7	42,100	67.9	131.2	31,400	75
80	60.5	131.9	44,600	63.1	130.7	40,100	65.6	128.2	30,300	80
85	58.1	128.8	43,900	60.7	127.5	38,300	63.2	124.9	29,300	85
90	55.7	125.3	43,200	58.3	124.0	36,700	60.7	121.3	28,400	90
95	53.2	121.5	41,800	55.8	120.2	35,300	58.1	117.4	27,600	95
100	50.7	117.4	38,800	53.2	116.0	33,900	55.4	113.1	26,900	100
105	48.0	112.8	36,100	50.4	111.4	32,700	52.7	108.3	26,200	105
110	45.2	107.8	33,700	47.6	106.3	31,600	49.7	103.1	25,600	110
115	42.2	102.3	31,500	44.6	100.7	30,500	46.6	97.3	25,100	115
120	39.1	96.1	29,500	41.4	94.4	29,700	43.3	90.7	24,600	120
125	35.7	89.2	27,700	38.0	87.3	28,000				125
130	32.0	81.2	26,000	34.2	79.2	26,200				130
133	29.5	75.6	25,000	31.6	73.7	25,200				133
135	27.8	71.9	24,400							135
140	22.9	60.6	22,900							140
141	21.8	57.9	22,600							141



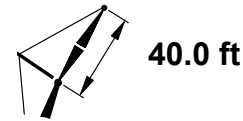
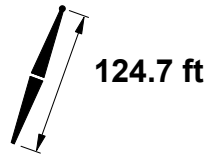
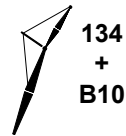
149,600 lb
+
60,400 lb



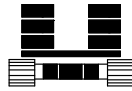
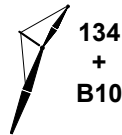
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
34	80.7	160.0	54,400							34
35	80.3	159.8	54,200							35
40	78.5	158.7	52,900							40
41	78.1	158.4	52,700	80.6	157.4	48,200				41
45	76.5	157.4	51,800	79.1	156.4	47,600				45
47	75.8	156.9	51,300	78.3	155.8	47,200	81.0	153.5	40,300	47
50	74.6	156.0	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	46,800	69.2	147.2	44,200	71.6	144.8	33,300	70
75	64.6	146.0	46,000	67.1	144.8	43,600	69.5	142.3	32,200	75
80	62.5	143.3	45,200	65.0	142.1	41,800	67.4	139.5	31,100	80
85	60.4	140.4	44,500	62.8	139.2	39,900	65.2	136.6	30,100	85
90	58.2	137.3	43,800	60.6	136.0	38,300	62.9	133.3	29,200	90
95	56.0	133.8	41,400	58.3	132.5	36,800	60.6	129.8	28,400	95
100	53.6	130.1	38,400	56.0	128.8	35,400	58.2	125.9	27,700	100
105	51.3	126.0	35,700	53.6	124.7	34,100	55.7	121.7	27,000	105
110	48.8	121.6	33,200	51.1	120.2	33,000	53.2	117.1	26,300	110
115	46.2	116.8	31,000	48.5	115.3	31,500	50.5	112.1	25,700	115
120	43.5	111.5	29,000	45.8	109.9	29,500	47.6	106.5	25,200	120
125	40.7	105.6	27,200	42.9	104.0	27,600	44.6	100.4	24,800	125
127	39.5	103.0	26,500	41.6	101.3	26,900	43.4	97.7	24,600	127
130	37.6	99.2	25,500	39.8	97.4	25,800				130
135	34.4	91.9	23,900	36.4	89.9	24,200				135
140	30.8	83.6	22,500	32.7	81.4	22,700				140
141	30.0	81.6	22,200	32.0	79.5	22,400				141
145	26.7	73.8	21,100							145
150	21.9	62.0	19,900							150

MLC200 S-2

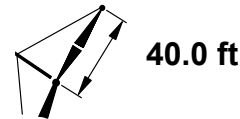
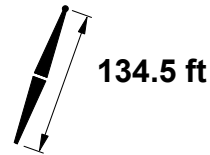
ASME B30.5



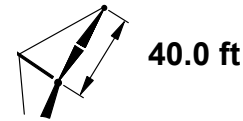
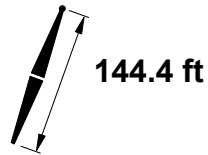
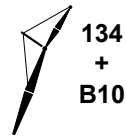
	5°			15°			25°			
	ft	o	ft	lb	ft	lb	ft	lb	ft	ft
35	80.9	169.8	54,300							35
40	79.2	168.8	53,100							40
42	78.4	168.3	52,700	80.9	167.2	48,100				42
45	77.4	167.6	52,000	79.8	166.5	47,700				45
49	75.9	166.5	51,100	78.3	165.4	47,100	80.8	163.1	40,100	49
50	75.6	166.3	50,900	78.0	165.2	46,900	80.4	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	47,200	70.5	158.0	44,500	72.9	155.5	34,100	70
75	66.3	156.9	46,400	68.6	155.7	44,000	70.9	153.2	32,900	75
80	64.3	154.5	45,700	66.6	153.3	43,300	68.9	150.7	31,900	80
85	62.3	151.8	45,000	64.6	150.6	41,500	66.9	147.9	30,900	85
90	60.3	148.9	44,300	62.6	147.6	39,800	64.8	145.0	30,000	90
95	58.3	145.7	41,000	60.5	144.5	38,200	62.7	141.7	29,200	95
100	56.2	142.3	38,000	58.4	141.0	36,800	60.5	138.2	28,400	100
105	54.0	138.7	35,300	56.2	137.3	35,500	58.3	134.4	27,700	105
110	51.8	134.7	32,900	54.0	133.3	33,400	56.0	130.3	27,000	110
115	49.5	130.4	30,700	51.7	128.9	31,200	53.6	125.8	26,400	115
120	47.1	125.7	28,700	49.2	124.2	29,100	51.1	121.0	25,900	120
125	44.6	120.6	26,800	46.7	119.0	27,300	48.5	115.6	25,400	125
130	42.0	115.0	25,100	44.1	113.4	25,500	45.8	109.8	24,900	130
135	39.3	108.9	23,600	41.3	107.1	23,900	42.9	103.3	24,200	135
140	36.3	102.1	22,100	38.3	100.2	22,400				140
145	33.1	94.5	20,800	35.0	92.4	21,000				145
150	29.7	85.8	19,500	31.5	83.5	19,700				150
155	25.7	75.7	18,400							155
160	21.1	63.3	17,200							160

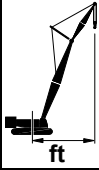
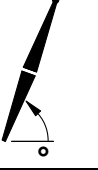
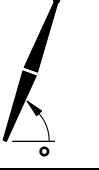


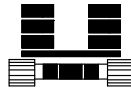
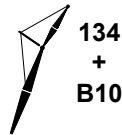
149,600 lb
+
60,400 lb



	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	47,600	71.7	168.6	44,700	73.9	166.1	34,700	70
75	67.7	167.7	46,900	69.9	166.5	44,200	72.1	164.0	33,600	75
80	65.9	165.4	46,200	68.1	164.2	43,700	70.2	161.6	32,500	80
85	64.1	162.9	45,400	66.2	161.7	42,900	68.4	159.1	31,600	85
90	62.2	160.3	43,900	64.4	159.0	41,200	66.4	156.3	30,700	90
95	60.3	157.4	40,500	62.4	156.1	39,600	64.5	153.4	29,900	95
100	58.4	154.2	37,500	60.5	152.9	38,200	62.5	150.1	29,100	100
105	56.4	150.9	34,800	58.5	149.5	35,500	60.5	146.7	28,400	105
110	54.3	147.2	32,400	56.4	145.9	33,000	58.4	142.9	27,700	110
115	52.3	143.3	30,200	54.3	141.9	30,800	56.2	138.9	27,100	115
120	50.1	139.1	28,200	52.2	137.6	28,700	54.0	134.5	26,500	120
125	47.9	134.5	26,300	49.9	133.0	26,800	51.7	129.8	26,000	125
130	45.6	129.6	24,600	47.6	128.0	25,100	49.3	124.7	25,500	130
135	43.2	124.2	23,100	45.1	122.6	23,500	46.8	119.1	23,800	135
140	40.6	118.4	21,700	42.6	116.7	22,000	44.1	112.9	22,300	140
142	39.6	115.8	21,100	41.5	114.1	21,500	43.0	110.3	21,700	142
145	38.0	112.0	20,300	39.8	110.2	20,600				145
150	35.1	104.9	19,100	36.9	102.9	19,300				150
155	32.0	96.9	17,900	33.8	94.8	18,100				155
158	30.0	91.5	17,200	31.7	89.4	17,400				158
160	28.6	87.9	16,800							160
165	24.8	77.4	15,800							165
169	21.2	67.3	15,000							169



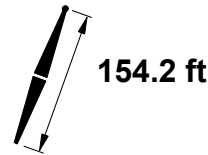
	5°			15°			25°			
 ft	 °	ft	lb	 °	ft	lb	 °	ft	lb	 ft
38	81.0	189.2	53,600							38
40	80.3	188.9	53,300							40
45	78.7	187.8	52,300	80.9	186.7	47,800				45
50	77.1	186.6	51,300	79.3	185.5	47,200				50
52	76.5	186.1	50,900	78.6	185.0	46,900	80.8	182.5	40,200	52
55	75.5	185.3	50,400	77.7	184.2	46,600	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	48,000	72.7	179.2	44,900	74.8	176.7	35,300	70
75	69.0	178.4	47,200	71.0	177.2	44,400	73.1	174.7	34,200	75
80	67.3	176.3	46,500	69.3	175.1	44,000	71.4	172.5	33,200	80
85	65.5	173.9	45,800	67.6	172.7	43,500	69.6	170.1	32,200	85
90	63.8	171.4	43,600	65.9	170.2	42,600	67.9	167.5	31,300	90
95	62.0	168.7	40,200	64.1	167.5	40,900	66.1	164.8	30,500	95
100	60.2	165.8	37,200	62.3	164.6	38,000	64.2	161.8	29,700	100
105	58.4	162.7	34,500	60.4	161.4	35,300	62.3	158.6	29,000	105
110	56.5	159.4	32,100	58.5	158.0	32,800	60.4	155.1	28,400	110
115	54.6	155.8	29,900	56.6	154.4	30,500	58.4	151.4	27,700	115
120	52.7	151.9	27,900	54.6	150.5	28,500	56.4	147.5	27,100	120
125	50.6	147.8	26,100	52.6	146.3	26,600	54.3	143.2	26,600	125
130	48.6	143.3	24,400	50.5	141.8	24,900	52.2	138.6	25,300	130
135	46.4	138.5	22,800	48.3	137.0	23,300	49.9	133.6	23,700	135
140	44.2	133.4	21,400	46.0	131.7	21,800	47.6	128.2	22,100	140
145	41.8	127.7	20,100	43.7	126.0	20,400	45.2	122.4	20,700	145
149	39.9	122.9	19,100	41.7	121.1	19,400	43.1	117.3	19,700	149
150	39.4	121.6	18,800	41.2	119.9	19,100				150
155	36.8	115.0	17,700	38.5	113.1	17,900				155
160	34.0	107.6	16,600	35.7	105.5	16,800				160
165	31.0	99.3	15,500	32.6	97.1	15,800				165
166	30.3	97.4	15,400	32.0	95.3	15,600				166
170	27.7	90.0	14,600							170
175	24.0	79.0	13,700							175
178	21.4	71.3	13,100							178



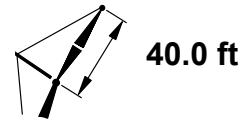
149,600 lb
+
60,400 lb



360°

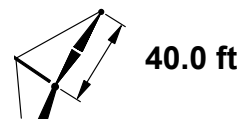
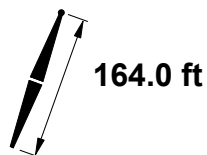
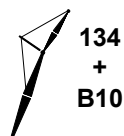


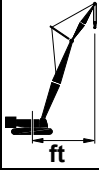
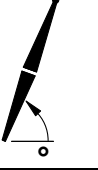
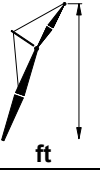
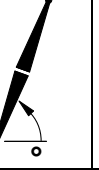
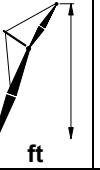
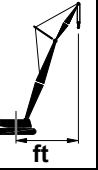
154.2 ft

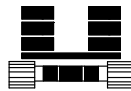
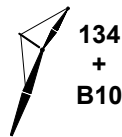


40.0 ft

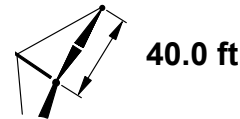
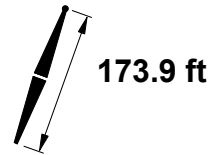
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
40	80.8	198.9	53,300							40
45	79.3	197.9	52,300							45
47	78.7	197.4	51,900	80.8	196.3	47,500				47
50	77.8	196.8	51,400	79.9	195.6	47,100				50
53	76.9	196.0	50,800	78.9	194.9	46,800	81.0	192.4	40,400	53
55	76.3	195.5	50,500	78.3	194.4	46,600	80.4	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	48,100	73.7	189.7	45,000	75.7	187.1	35,900	70
75	70.1	189.0	47,400	72.1	187.8	44,600	74.1	185.2	34,800	75
80	68.5	187.0	46,800	70.5	185.8	44,100	72.4	183.2	33,800	80
85	66.9	184.8	46,100	68.8	183.6	43,700	70.8	180.9	32,800	85
90	65.2	182.5	43,100	67.2	181.2	43,300	69.1	178.5	32,000	90
95	63.6	179.9	39,800	65.5	178.7	40,700	67.4	176.0	31,100	95
100	61.9	177.2	36,800	63.8	175.9	37,600	65.7	173.2	30,400	100
105	60.2	174.3	34,100	62.1	173.0	34,800	64.0	170.2	29,600	105
110	58.5	171.2	31,600	60.4	169.9	32,300	62.2	167.0	29,000	110
115	56.7	167.9	29,400	58.6	166.5	30,100	60.4	163.6	28,300	115
120	54.9	164.3	27,400	56.8	162.9	28,000	58.5	159.9	27,700	120
125	53.0	160.5	25,600	54.9	159.1	26,200	56.6	156.0	26,700	125
130	51.1	156.4	23,900	53.0	155.0	24,400	54.6	151.8	24,900	130
135	49.2	152.1	22,300	51.0	150.6	22,800	52.6	147.3	23,300	135
140	47.1	147.4	20,900	48.9	145.9	21,400	50.5	142.5	21,800	140
145	45.1	142.4	19,600	46.8	140.8	20,000	48.3	137.3	20,300	145
150	42.9	137.0	18,300	44.6	135.3	18,700	46.1	131.6	19,000	150
155	40.6	131.1	17,200	42.3	129.4	17,500	43.7	125.5	17,800	155
156	40.1	129.9	17,000	41.8	128.1	17,300	43.2	124.2	17,600	156
160	38.2	124.8	16,100	39.9	122.9	16,400				160
165	35.7	117.8	15,100	37.3	115.8	15,300				165
170	33.0	110.2	14,100	34.6	108.0	14,400				170
175	30.1	101.6	13,200	31.6	99.3	13,400				175
180	26.8	91.9	12,400							180
185	23.2	80.6	11,500							185
187	21.5	75.4	11,200							187

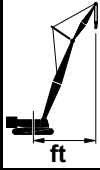
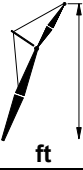


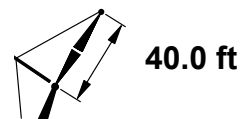
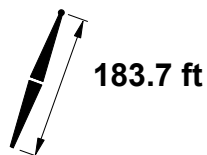
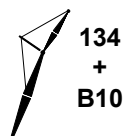
	5°			15°			25°			
										
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
41	81.0	208.7	52,900							41
45	79.8	207.9	52,300							45
48	79.0	207.3	51,700	80.9	206.2	47,400				48
50	78.4	206.9	51,400	80.4	205.7	47,100				50
55	77.0	205.7	50,500	78.9	204.5	46,600	80.9	202.0	40,200	55
60	75.5	204.3	49,800	77.4	203.2	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	48,300	74.5	200.1	45,100	76.4	197.5	36,500	70
75	71.1	199.5	47,600	73.0	198.3	44,700	74.9	195.7	35,400	75
80	69.6	197.6	47,000	71.5	196.4	44,200	73.3	193.8	34,400	80
85	68.1	195.5	46,300	69.9	194.3	43,800	71.8	191.7	33,400	85
90	66.5	193.3	42,700	68.4	192.1	43,400	70.2	189.4	32,500	90
95	65.0	191.0	39,400	66.8	189.7	40,300	68.6	187.0	31,700	95
100	63.4	188.4	36,400	65.2	187.1	37,200	67.0	184.4	31,000	100
105	61.8	185.7	33,700	63.6	184.4	34,500	65.4	181.6	30,200	105
110	60.2	182.8	31,200	62.0	181.5	32,000	63.7	178.6	29,600	110
115	58.5	179.7	29,000	60.3	178.3	29,700	62.0	175.5	28,900	115
120	56.8	176.4	27,000	58.6	175.0	27,700	60.3	172.1	28,300	120
125	55.1	172.8	25,200	56.9	171.5	25,800	58.5	168.4	26,400	125
130	53.4	169.1	23,500	55.1	167.7	24,100	56.7	164.6	24,600	130
135	51.6	165.1	21,900	53.3	163.6	22,500	54.9	160.5	23,000	135
140	49.7	160.8	20,500	51.4	159.3	21,000	53.0	156.0	21,400	140
145	47.8	156.2	19,200	49.5	154.7	19,600	51.0	151.3	20,000	145
150	45.8	151.4	17,900	47.5	149.8	18,400	49.0	146.3	18,700	150
155	43.8	146.1	16,800	45.5	144.5	17,200	46.9	140.8	17,500	155
160	41.7	140.5	15,700	43.3	138.7	16,100	44.7	135.0	16,300	160
164	39.9	135.6	14,900	41.5	133.8	15,200	42.8	129.9	15,500	164
165	39.5	134.4	14,700	41.1	132.6	15,000				165
170	37.1	127.8	13,700	38.7	125.9	14,000				170
175	34.7	120.6	12,800	36.2	118.5	13,100				175
180	32.0	112.7	12,000	33.5	110.4	12,200				180
183	30.3	107.3	11,500	31.8	105.1	11,700				183
185	29.2	103.8	11,200							185
190	26.0	93.8	10,400							190
195	22.5	82.0	9,700							195
196	21.7	79.4	9,500							196

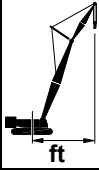
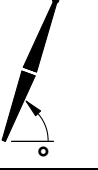
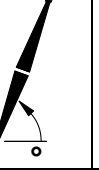


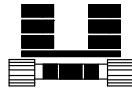
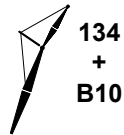
149,600 lb
+
60,400 lb



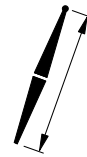
	5°			15°			25°			
 ft	 o	 ft	 lb	 o	 ft	 lb	 o	 ft	 lb	 ft
43	80.9	218.3	52,400							43
45	80.3	218.0	52,100							45
50	79.0	216.9	51,300	80.8	215.8	47,100				50
55	77.6	215.8	50,500	79.4	214.6	46,500				55
57	77.0	215.3	50,200	78.9	214.1	46,300	80.8	211.6	40,100	57
60	76.2	214.5	49,800	78.0	213.4	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	48,400	75.2	210.4	45,100	77.1	207.8	37,000	70
75	72.0	209.9	47,700	73.8	208.7	44,700	75.6	206.1	35,900	75
80	70.6	208.1	47,100	72.4	206.9	44,300	74.2	204.3	34,900	80
85	69.1	206.2	46,100	70.9	205.0	43,900	72.7	202.3	34,000	85
90	67.7	204.1	42,300	69.5	202.9	43,400	71.2	200.2	33,100	90
95	66.2	201.9	38,900	68.0	200.6	39,900	69.7	197.9	32,300	95
100	64.7	199.5	35,900	66.5	198.2	36,800	68.2	195.5	31,500	100
105	63.2	196.9	33,200	65.0	195.6	34,100	66.7	192.8	30,800	105
110	61.7	194.2	30,700	63.4	192.9	31,600	65.1	190.0	30,100	110
115	60.1	191.3	28,500	61.9	189.9	29,300	63.5	187.1	29,500	115
120	58.6	188.2	26,500	60.3	186.8	27,200	61.9	183.9	27,900	120
125	57.0	184.9	24,700	58.7	183.5	25,400	60.3	180.5	26,000	125
130	55.3	181.4	23,000	57.0	180.0	23,600	58.6	176.9	24,200	130
135	53.7	177.7	21,500	55.3	176.2	22,000	56.9	173.1	22,500	135
140	51.9	173.7	20,000	53.6	172.2	20,600	55.1	169.1	21,000	140
145	50.2	169.5	18,700	51.9	168.0	19,200	53.3	164.7	19,600	145
150	48.4	165.0	17,400	50.0	163.5	17,900	51.5	160.1	18,300	150
155	46.5	160.3	16,300	48.2	158.7	16,700	49.5	155.2	17,100	155
160	44.6	155.2	15,200	46.2	153.5	15,600	47.6	149.9	15,900	160
165	42.6	149.7	14,200	44.2	148.0	14,600	45.5	144.3	14,800	165
170	40.6	143.9	13,200	42.1	142.1	13,600	43.4	138.2	13,800	170
171	40.1	142.6	13,100	41.7	140.8	13,400	42.9	136.9	13,600	171
175	38.4	137.6	12,300	39.9	135.7	12,600				175
180	36.2	130.7	11,500	37.6	128.7	11,800				180
185	33.8	123.3	10,700	35.2	121.2	10,900				185
190	31.2	115.1	9,900	32.6	112.8	10,100				190
192	30.1	111.4	9,600	31.5	109.2	9,800				192
195	28.4	105.9	9,200							195
200	25.3	95.6	8,500							200
205	21.8	83.4	7,900							205
206	21.0	80.7	7,700							206



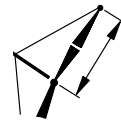
	5°			15°			25°			
 ft	 °	ft	lb	 °	ft	lb	 °	ft	lb	 ft
44	81.0	228.1	52,100							44
45	80.8	228.0	51,900							45
50	79.4	227.0	51,200							50
51	79.2	226.8	51,000	81.0	225.6	46,800				51
55	78.1	225.9	50,400	79.9	224.7	46,400				55
58	77.3	225.2	50,000	79.1	224.0	46,100	80.9	221.5	40,300	58
60	76.8	224.7	49,700	78.6	223.5	45,900	80.4	221.0	39,700	60
65	75.5	223.4	49,100	77.3	222.2	45,500	79.0	219.6	38,500	65
70	74.2	221.9	48,400	75.9	220.7	45,100	77.7	218.1	37,400	70
75	72.8	220.3	47,800	74.6	219.1	44,700	76.3	216.5	36,400	75
80	71.5	218.6	47,200	73.2	217.4	44,300	74.9	214.8	35,400	80
85	70.1	216.8	45,800	71.8	215.5	44,000	73.5	212.9	34,500	85
90	68.7	214.8	42,000	70.4	213.5	43,100	72.1	210.9	33,600	90
95	67.3	212.7	38,600	69.0	211.4	39,600	70.7	208.7	32,800	95
100	65.9	210.4	35,600	67.6	209.1	36,500	69.3	206.4	32,000	100
105	64.5	208.0	32,900	66.2	206.7	33,800	67.8	203.9	31,300	105
110	63.1	205.4	30,400	64.7	204.1	31,300	66.3	201.3	30,600	110
115	61.6	202.6	28,200	63.3	201.3	29,000	64.9	198.5	29,800	115
120	60.1	199.7	26,200	61.8	198.4	26,900	63.3	195.5	27,700	120
125	58.6	196.6	24,400	60.3	195.3	25,100	61.8	192.3	25,700	125
130	57.1	193.4	22,700	58.7	192.0	23,300	60.2	189.0	23,900	130
135	55.5	189.9	21,100	57.1	188.5	21,700	58.6	185.4	22,300	135
140	53.9	186.2	19,700	55.5	184.8	20,300	57.0	181.7	20,800	140
145	52.3	182.3	18,400	53.9	180.8	18,900	55.3	177.7	19,400	145
150	50.6	178.2	17,100	52.2	176.7	17,600	53.6	173.4	18,100	150
155	48.9	173.8	16,000	50.5	172.2	16,400	51.9	168.9	16,800	155
160	47.2	169.1	14,900	48.7	167.5	15,300	50.1	164.1	15,700	160
165	45.4	164.2	13,900	46.9	162.5	14,300	48.2	158.9	14,600	165
170	43.5	158.9	12,900	45.0	157.2	13,300	46.3	153.5	13,600	170
175	41.6	153.2	12,000	43.1	151.5	12,400	44.2	147.6	12,600	175
178	40.4	149.6	11,500	41.8	147.8	11,900	43.0	143.9	12,100	178
180	39.6	147.2	11,200	41.0	145.3	11,500				180
185	37.4	140.6	10,400	38.9	138.7	10,700				185
190	35.2	133.6	9,600	36.6	131.5	9,900				190
195	32.9	125.9	8,900	34.2	123.7	9,100				195
200	30.4	117.4	8,200	31.7	115.0	8,400				200
205	27.6	108.0	7,600							205
210	24.6	97.3	7,000							210
215	21.1	84.8	6,400							215



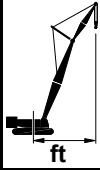
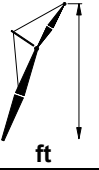
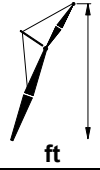
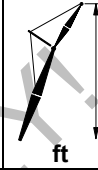
149,600 lb
+
60,400 lb

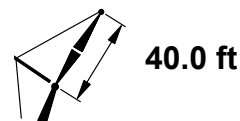
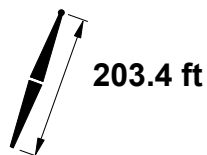
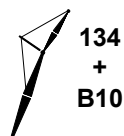


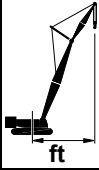
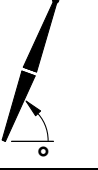
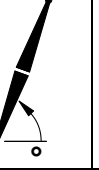
193.6 ft

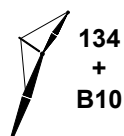


40.0 ft

	5°			15°			25°			
										
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
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	48,900	77.8	232.4	45,400	79.5	229.8	39,000	65
70	74.8	232.2	48,300	76.5	231.0	45,000	78.2	228.4	37,900	70
75	73.6	230.7	47,700	75.2	229.5	44,600	76.9	226.8	36,800	75
80	72.3	229.0	47,200	73.9	227.8	44,200	75.6	225.2	35,900	80
85	71.0	227.3	45,400	72.6	226.0	43,900	74.3	223.4	35,000	85
90	69.7	225.4	41,500	71.3	224.1	42,700	72.9	221.5	34,100	90
95	68.3	223.4	38,100	70.0	222.1	39,200	71.6	219.4	33,300	95
100	67.0	221.2	35,100	68.6	219.9	36,100	70.2	217.2	32,500	100
105	65.7	218.9	32,400	67.3	217.6	33,400	68.8	214.9	31,800	105
110	64.3	216.5	30,000	65.9	215.2	30,900	67.5	212.4	31,200	110
115	62.9	213.9	27,700	64.5	212.6	28,600	66.0	209.7	29,400	115
120	61.5	211.1	25,700	63.1	209.8	26,500	64.6	206.9	27,300	120
125	60.1	208.2	23,900	61.7	206.9	24,600	63.2	203.9	25,300	125
130	58.6	205.1	22,200	60.2	203.8	22,900	61.7	200.8	23,500	130
135	57.2	201.9	20,700	58.7	200.5	21,300	60.2	197.5	21,900	135
140	55.7	198.4	19,200	57.2	197.0	19,800	58.7	193.9	20,400	140
145	54.2	194.8	17,900	55.7	193.3	18,500	57.1	190.2	19,000	145
150	52.6	190.9	16,700	54.1	189.4	17,200	55.5	186.2	17,700	150
155	51.0	186.8	15,500	52.6	185.3	16,000	53.9	182.1	16,400	155
160	49.4	182.5	14,400	50.9	181.0	14,900	52.2	177.6	15,300	160
165	47.7	178.0	13,400	49.2	176.4	13,800	50.5	172.9	14,200	165
170	46.0	173.1	12,500	47.5	171.5	12,900	48.8	167.9	13,200	170
175	44.3	168.0	11,600	45.7	166.3	11,900	46.9	162.6	12,200	175
180	42.5	162.5	10,700	43.9	160.7	11,100	45.0	156.9	11,300	180
185	40.6	156.6	9,900	42.0	154.8	10,200	43.1	150.8	10,500	185
190	38.6	150.4	9,200	40.0	148.4	9,500				190
195	36.5	143.6	8,500	37.9	141.6	8,700				195
200	34.4	136.3	7,800	35.7	134.2	8,000				200
205	32.1	128.4	7,100	33.3	126.1	7,300				205
208	30.6	123.1	6,700	31.9	120.9	6,900				208
210	29.6	119.6	6,500							210
215	26.9	109.9	5,900							215
220	23.9	98.9	5,300							220
224	21.3	88.8	4,900							224



	5°			15°			25°			
 ft	 °	ft	lb	 °	ft	lb	 °	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	49,200	79.3	243.5	45,500	80.9	240.9	40,300	61
65	76.7	243.7	48,700	78.3	242.5	45,200	80.0	239.9	39,400	65
70	75.5	242.4	48,100	77.1	241.2	44,900	78.7	238.6	38,300	70
75	74.3	241.0	47,600	75.9	239.7	44,500	77.5	237.1	37,300	75
80	73.0	239.4	47,100	74.6	238.2	44,100	76.2	235.5	36,300	80
85	71.8	237.7	45,000	73.4	236.5	43,800	75.0	233.8	35,400	85
90	70.5	235.9	41,100	72.1	234.7	42,400	73.7	232.0	34,600	90
95	69.3	234.0	37,700	70.8	232.7	38,900	72.4	230.0	33,800	95
100	68.0	231.9	34,700	69.6	230.7	35,800	71.1	227.9	33,000	100
105	66.7	229.8	32,000	68.3	228.5	33,000	69.8	225.7	32,300	105
110	65.4	227.4	29,500	67.0	226.1	30,500	68.5	223.3	31,400	110
115	64.1	225.0	27,300	65.6	223.7	28,200	67.1	220.8	29,000	115
120	62.8	222.4	25,300	64.3	221.0	26,100	65.8	218.2	26,900	120
125	61.4	219.6	23,500	63.0	218.3	24,300	64.4	215.4	25,000	125
130	60.1	216.7	21,800	61.6	215.3	22,500	63.0	212.4	23,200	130
135	58.7	213.6	20,200	60.2	212.2	20,900	61.6	209.2	21,600	135
140	57.3	210.4	18,800	58.8	209.0	19,400	60.2	205.9	20,000	140
145	55.8	206.9	17,500	57.3	205.5	18,100	58.7	202.4	18,600	145
150	54.4	203.3	16,200	55.9	201.9	16,800	57.2	198.7	17,300	150
155	52.9	199.5	15,100	54.4	198.0	15,600	55.7	194.8	16,100	155
160	51.4	195.5	14,000	52.9	194.0	14,500	54.1	190.7	14,900	160
165	49.9	191.2	13,000	51.3	189.7	13,500	52.6	186.3	13,900	165
170	48.3	186.8	12,000	49.7	185.2	12,500	50.9	181.7	12,800	170
175	46.6	182.0	11,100	48.1	180.4	11,600	49.3	176.8	11,900	175
180	45.0	177.0	10,300	46.4	175.3	10,700	47.5	171.6	11,000	180
185	43.3	171.6	9,500	44.6	169.9	9,900	45.8	166.1	10,100	185
190	41.5	166.0	8,800	42.8	164.2	9,100	43.9	160.2	9,300	190
192	40.7	163.6	8,500	42.1	161.7	8,800	43.2	157.8	9,000	192
195	39.6	159.9	8,000	41.0	158.0	8,300				195
200	37.7	153.4	7,400	39.0	151.5	7,600				200
205	35.7	146.5	6,700	37.0	144.4	7,000				205
210	33.6	139.0	6,100	34.8	136.8	6,300				210
215	31.3	130.8	5,500	32.5	128.5	5,700				215
217	30.3	127.2	5,300	31.5	124.9	5,500				217
220	28.9	121.8	4,900							220
225	26.2	111.8	4,400							225



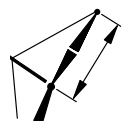
149,600 lb
+
60,400 lb



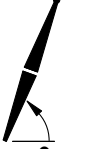
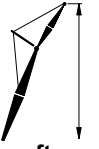
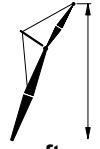
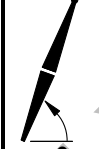
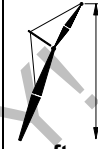
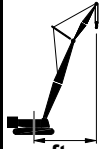
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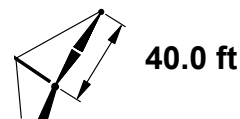
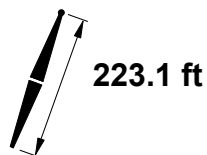
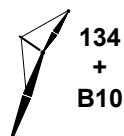


213.3 ft

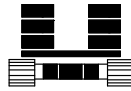
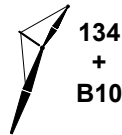


40.0 ft

	5°			15°			25°			
										
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
49	80.9	257.2	50,400							49
50	80.7	257.1	50,200							50
55	79.5	256.1	49,600							55
56	79.3	255.9	49,500	80.9	254.7	45,700				56
60	78.4	255.1	49,100	79.9	253.8	45,300				60
63	77.7	254.3	48,700	79.2	253.1	45,100	80.8	250.6	40,200	63
65	77.2	253.9	48,400	78.8	252.7	45,000	80.4	250.1	39,700	65
70	76.1	252.6	47,900	77.6	251.4	44,700	79.2	248.8	38,700	70
75	74.9	251.2	47,400	76.4	250.0	44,300	78.0	247.4	37,700	75
80	73.7	249.7	46,900	75.2	248.5	44,000	76.8	245.8	36,700	80
85	72.5	248.1	44,500	74.0	246.9	43,600	75.6	244.2	35,900	85
90	71.3	246.4	40,700	72.8	245.1	42,000	74.4	242.5	35,000	90
95	70.1	244.6	37,300	71.6	243.3	38,500	73.1	240.6	34,200	95
100	68.9	242.6	34,200	70.4	241.3	35,400	71.9	238.6	33,500	100
105	67.7	240.5	31,500	69.2	239.2	32,600	70.6	236.5	32,800	105
110	66.4	238.3	29,100	67.9	237.0	30,100	69.4	234.2	31,000	110
115	65.2	235.9	26,900	66.7	234.6	27,800	68.1	231.8	28,700	115
120	63.9	233.5	24,800	65.4	232.1	25,700	66.8	229.3	26,500	120
125	62.6	230.8	23,000	64.1	229.5	23,800	65.5	226.6	24,600	125
130	61.3	228.1	21,300	62.8	226.7	22,100	64.2	223.8	22,800	130
135	60.0	225.2	19,800	61.5	223.8	20,500	62.9	220.8	21,100	135
140	58.7	222.1	18,300	60.2	220.7	19,000	61.5	217.7	19,600	140
145	57.4	218.9	17,000	58.8	217.4	17,600	60.1	214.4	18,200	145
150	56.0	215.5	15,700	57.4	214.0	16,300	58.7	210.9	16,900	150
155	54.6	211.9	14,600	56.0	210.4	15,200	57.3	207.2	15,700	155
160	53.2	208.1	13,500	54.6	206.6	14,000	55.9	203.4	14,500	160
165	51.7	204.1	12,500	53.1	202.6	13,000	54.4	199.3	13,400	165
170	50.3	199.9	11,500	51.6	198.4	12,000	52.9	195.0	12,400	170
175	48.7	195.5	10,700	50.1	193.9	11,100	51.3	190.5	11,500	175
180	47.2	190.9	9,800	48.6	189.2	10,200	49.7	185.7	10,600	180
185	45.6	185.9	9,000	47.0	184.3	9,400	48.1	180.6	9,700	185
190	44.0	180.7	8,300	45.3	179.0	8,600	46.4	175.3	8,900	190
195	42.3	175.2	7,600	43.6	173.4	7,900	44.7	169.6	8,100	195
200	40.5	169.4	6,900	41.8	167.5	7,200	42.9	163.5	7,400	200
205	38.7	163.1	6,200	40.0	161.2	6,500				205
210	36.9	156.5	5,600	38.1	154.4	5,900				210
215	34.9	149.3	5,000	36.1	147.2	5,300				215
220	32.8	141.6	4,500	34.0	139.3	4,700				220
225				31.7	130.8	4,100				225



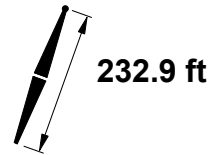
	5°			15°			25°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
51	80.8	266.9	49,800							51
55	79.9	266.1	49,400							55
57	79.5	265.7	49,200	81.0	264.5	45,400				57
60	78.8	265.1	48,800	80.3	263.9	45,200				60
64	77.9	264.2	48,300	79.4	263.0	44,900	81.0	260.4	40,300	64
65	77.7	264.0	48,200	79.2	262.8	44,900	80.7	260.2	40,100	65
70	76.6	262.8	47,700	78.1	261.6	44,500	79.6	258.9	39,000	70
75	75.5	261.5	47,200	77.0	260.2	44,200	78.5	257.6	38,100	75
80	74.3	260.0	46,700	75.8	258.8	43,900	77.3	256.1	37,100	80
85	73.2	258.5	44,100	74.7	257.2	43,600	76.1	254.6	36,300	85
90	72.0	256.8	40,200	73.5	255.6	41,500	75.0	252.9	35,400	90
95	70.9	255.1	36,800	72.4	253.8	38,000	73.8	251.1	34,700	95
100	69.7	253.2	33,800	71.2	251.9	34,900	72.6	249.2	33,900	100
105	68.6	251.2	31,100	70.0	249.9	32,100	71.4	247.1	33,200	105
110	67.4	249.1	28,600	68.8	247.8	29,600	70.2	245.0	30,600	110
115	66.2	246.8	26,400	67.6	245.5	27,300	69.0	242.7	28,300	115
120	65.0	244.5	24,400	66.4	243.1	25,300	67.8	240.3	26,100	120
125	63.8	242.0	22,500	65.2	240.6	23,400	66.5	237.8	24,200	125
130	62.5	239.3	20,800	63.9	238.0	21,600	65.3	235.1	22,400	130
135	61.3	236.6	19,300	62.7	235.2	20,000	64.0	232.3	20,700	135
140	60.0	233.6	17,900	61.4	232.3	18,600	62.7	229.3	19,200	140
145	58.7	230.6	16,500	60.1	229.2	17,200	61.4	226.1	17,800	145
150	57.4	227.4	15,300	58.8	225.9	15,900	60.1	222.9	16,500	150
155	56.1	224.0	14,100	57.5	222.5	14,700	58.8	219.4	15,300	155
160	54.8	220.4	13,000	56.2	218.9	13,600	57.4	215.8	14,100	160
165	53.4	216.7	12,000	54.8	215.2	12,600	56.0	211.9	13,000	165
170	52.0	212.7	11,100	53.4	211.2	11,600	54.6	207.9	12,000	170
175	50.6	208.6	10,200	52.0	207.0	10,700	53.1	203.7	11,100	175
180	49.2	204.3	9,400	50.5	202.7	9,800	51.7	199.2	10,200	180
185	47.7	199.7	8,600	49.0	198.1	9,000	50.1	194.5	9,300	185
190	46.2	194.9	7,800	47.5	193.2	8,200	48.6	189.6	8,500	190
195	44.6	189.8	7,100	45.9	188.1	7,500	47.0	184.3	7,700	195
200	43.0	184.4	6,400	44.3	182.6	6,800	45.3	178.8	7,000	200
205	41.4	178.7	5,800	42.6	176.9	6,100	43.6	172.9	6,300	205
207	40.7	176.3	5,500	41.9	174.4	5,800	42.9	170.4	6,100	207
210	39.7	172.7	5,200	40.9	170.8	5,400				210
215	37.9	166.3	4,600	39.1	164.3	4,800				215
220	36.1	159.4	4,000	37.2	157.3	4,300				220



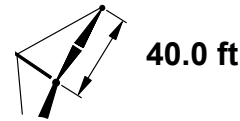
149,600 lb
+
60,400 lb



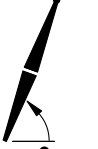
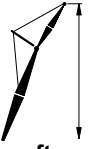
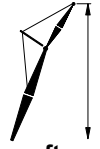
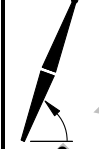
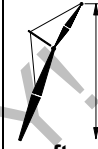
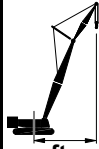
360°

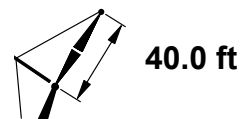
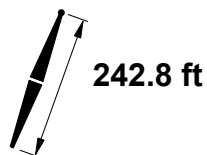
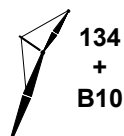


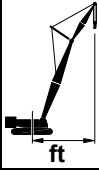
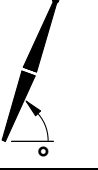
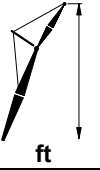
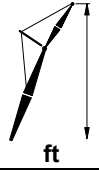
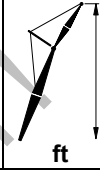
232.9 ft

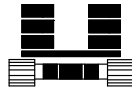
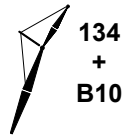


40.0 ft

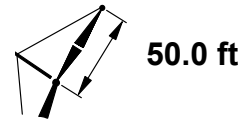
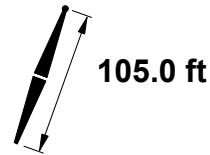
	5°			15°			25°			
										
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
52	80.9	276.7	49,400							52
55	80.3	276.2	49,000							55
59	79.4	275.4	48,600	80.9	274.2	45,000				59
60	79.2	275.2	48,500	80.7	274.0	44,900				60
65	78.2	274.1	47,900	79.6	272.9	44,600				65
66	77.9	273.9	47,800	79.4	272.6	44,500	80.9	270.0	40,200	66
70	77.1	272.9	47,400	78.5	271.7	44,300	80.0	269.1	39,400	70
75	76.0	271.6	46,900	77.4	270.4	44,000	78.9	267.8	38,400	75
80	74.9	270.3	46,400	76.3	269.0	43,700	77.8	266.4	37,500	80
85	73.8	268.8	44,200	75.2	267.5	43,400	76.7	264.9	36,700	85
90	72.7	267.2	40,300	74.1	265.9	41,700	75.6	263.2	35,800	90
95	71.6	265.5	36,900	73.0	264.2	38,200	74.4	261.5	35,100	95
100	70.5	263.7	33,900	71.9	262.4	35,000	73.3	259.7	34,300	100
105	69.4	261.8	31,200	70.8	260.5	32,200	72.1	257.7	33,300	105
110	68.2	259.8	28,700	69.6	258.5	29,700	71.0	255.7	30,700	110
115	67.1	257.6	26,500	68.5	256.3	27,500	69.8	253.5	28,400	115
120	65.9	255.4	24,500	67.3	254.0	25,400	68.7	251.2	26,300	120
125	64.8	253.0	22,600	66.2	251.6	23,500	67.5	248.8	24,300	125
130	63.6	250.5	20,900	65.0	249.1	21,700	66.3	246.2	22,500	130
135	62.4	247.8	19,400	63.8	246.5	20,100	65.1	243.5	20,900	135
140	61.2	245.0	17,900	62.6	243.7	18,700	63.9	240.7	19,300	140
145	60.0	242.1	16,600	61.3	240.7	17,300	62.6	237.7	17,900	145
150	58.8	239.1	15,400	60.1	237.6	16,000	61.4	234.6	16,600	150
155	57.5	235.8	14,200	58.9	234.4	14,800	60.1	231.3	15,400	155
160	56.2	232.5	13,100	57.6	231.0	13,700	58.8	227.9	14,200	160
165	55.0	228.9	12,100	56.3	227.5	12,700	57.5	224.3	13,100	165
170	53.7	225.2	11,200	55.0	223.7	11,700	56.1	220.5	12,100	170
175	52.3	221.3	10,300	53.6	219.8	10,800	54.8	216.5	11,200	175
180	51.0	217.3	9,400	52.3	215.7	9,900	53.4	212.3	10,300	180
185	49.6	213.0	8,600	50.9	211.4	9,100	52.0	207.9	9,400	185
190	48.2	208.5	7,900	49.4	206.8	8,300	50.5	203.3	8,600	190
195	46.7	203.7	7,200	48.0	202.1	7,600	49.0	198.5	7,900	195
200	45.2	198.8	6,500	46.5	197.0	6,900	47.5	193.3	7,100	200
205	43.7	193.5	5,900	45.0	191.8	6,200	45.9	187.9	6,500	205
210	42.2	188.0	5,200	43.4	186.2	5,600	44.3	182.2	5,800	210
214	40.9	183.3	4,800	42.1	181.4	5,100	43.0	177.4	5,300	214
215	40.5	182.1	4,700	41.7	180.2	4,900				215
220	38.9	175.9	4,100	40.0	174.0	4,400				220



	5°			15°			25°			
										
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
54	80.9	286.3	48,600							54
55	80.6	286.2	48,500							55
60	79.6	285.2	48,000	81.0	284.0	44,600				60
65	78.6	284.2	47,500	80.0	283.0	44,300				65
67	78.2	283.7	47,300	79.6	282.5	44,100	81.0	279.9	40,300	67
70	77.5	283.0	47,000	78.9	281.8	43,900	80.3	279.2	39,700	70
75	76.5	281.8	46,500	77.9	280.6	43,600	79.3	277.9	38,800	75
80	75.5	280.5	46,100	76.8	279.2	43,400	78.2	276.6	37,900	80
85	74.4	279.1	43,800	75.8	277.8	43,100	77.2	275.1	37,000	85
90	73.3	277.5	39,900	74.7	276.3	41,300	76.1	273.6	36,200	90
95	72.3	275.9	36,500	73.6	274.6	37,800	75.0	271.9	35,500	95
100	71.2	274.2	33,500	72.6	272.9	34,700	73.9	270.2	34,700	100
105	70.1	272.3	30,800	71.5	271.1	31,900	72.8	268.3	33,000	105
110	69.0	270.4	28,300	70.4	269.1	29,400	71.7	266.3	30,400	110
115	67.9	268.3	26,100	69.3	267.0	27,100	70.6	264.2	28,000	115
120	66.8	266.2	24,100	68.2	264.9	25,000	69.5	262.0	25,900	120
125	65.7	263.9	22,200	67.1	262.6	23,100	68.3	259.7	24,000	125
130	64.6	261.5	20,500	65.9	260.1	21,400	67.2	257.3	22,200	130
135	63.5	259.0	19,000	64.8	257.6	19,700	66.0	254.7	20,500	135
140	62.3	256.3	17,500	63.6	254.9	18,300	64.9	252.0	19,000	140
145	61.1	253.5	16,200	62.5	252.1	16,900	63.7	249.2	17,600	145
150	60.0	250.6	14,900	61.3	249.2	15,600	62.5	246.2	16,200	150
155	58.8	247.5	13,800	60.1	246.1	14,400	61.3	243.1	15,000	155
160	57.6	244.3	12,700	58.9	242.9	13,300	60.1	239.8	13,900	160
165	56.4	241.0	11,700	57.6	239.5	12,300	58.8	236.4	12,800	165
170	55.1	237.5	10,700	56.4	236.0	11,300	57.6	232.8	11,800	170
175	53.9	233.8	9,800	55.1	232.3	10,400	56.3	229.0	10,800	175
180	52.6	229.9	9,000	53.8	228.4	9,500	55.0	225.1	9,900	180
185	51.3	225.9	8,200	52.5	224.3	8,700	53.6	221.0	9,100	185
190	50.0	221.7	7,500	51.2	220.1	7,900	52.3	216.6	8,300	190
195	48.6	217.2	6,700	49.8	215.6	7,200	50.9	212.1	7,500	195
200	47.2	212.6	6,100	48.4	210.9	6,500	49.5	207.3	6,800	200
205	45.8	207.7	5,400	47.0	206.0	5,800	48.0	202.3	6,100	205
210	44.3	202.6	4,800	45.5	200.8	5,200	46.5	197.0	5,400	210
215	42.9	197.2	4,200	44.0	195.4	4,500	45.0	191.5	4,800	215
220				42.5	189.6	4,000	43.4	185.6	4,200	220
221							43.1	184.4	4,100	221



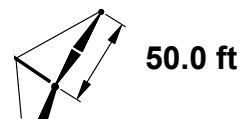
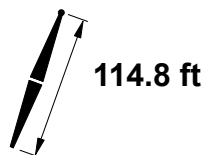
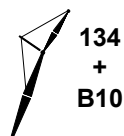
149,600 lb
+
60,400 lb

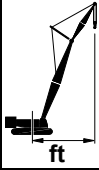
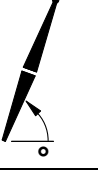
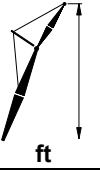
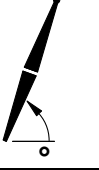
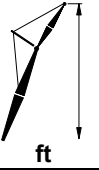
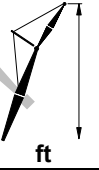


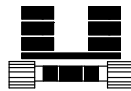
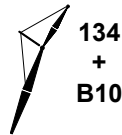
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
35	80.7	159.9	45,500							35
40	78.8	158.8	44,400							40
43	77.6	158.1	43,800	80.9	156.9	40,300				43
45	76.9	157.6	43,300	80.1	156.4	39,900				45
50	75.0	156.2	42,300	78.2	154.9	39,200				50
52	74.2	155.5	41,900	77.4	154.3	38,800	80.7	151.6	32,400	52
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	36,100	63.8	139.2	31,800	66.8	136.2	24,400	85
90	58.6	137.4	35,300	61.6	136.0	30,400	64.6	133.0	23,600	90
95	56.3	134.0	34,500	59.3	132.6	29,200	62.3	129.4	22,800	95
100	54.0	130.3	33,900	57.0	128.8	28,000	59.9	125.6	22,100	100
105	51.6	126.2	32,800	54.6	124.7	27,000	57.4	121.3	21,500	105
110	49.2	121.8	31,300	52.1	120.2	26,000	54.8	116.7	20,900	110
115	46.6	117.0	30,000	49.5	115.3	25,100	52.1	111.7	20,400	115
120	43.9	111.7	28,700	46.7	110.0	24,300	49.3	106.1	19,900	120
125	41.1	105.9	27,600	43.9	104.0	23,600	46.2	99.9	19,500	125
130	38.0	99.4	26,500	40.8	97.4	22,900	43.0	93.0	19,100	130
135	34.8	92.1	24,900	37.4	90.0	22,300				135
140	31.2	83.9	23,500	33.7	81.5	21,700				140
143	28.8	78.1	22,700	31.3	75.7	21,400				143
145	27.2	74.2	22,100							145
150	22.4	62.4	20,900							150
151	21.3	59.6	20,600							151

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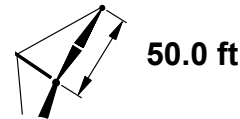
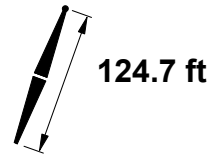
ASME B30.5



	5°			15°			25°			
 ft	 °	 ft	 lb	 °	 ft	 lb	 °	 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	36,700	65.6	150.6	33,000	68.4	147.6	25,100	85
90	60.7	149.1	36,000	63.5	147.7	31,600	66.4	144.6	24,200	90
95	58.6	145.9	35,300	61.5	144.5	30,300	64.2	141.3	23,500	95
100	56.5	142.5	34,600	59.3	141.1	29,200	62.1	137.8	22,800	100
105	54.4	138.8	34,000	57.2	137.3	28,100	59.8	134.0	22,200	105
110	52.1	134.9	33,200	54.9	133.3	27,100	57.5	129.9	21,500	110
115	49.8	130.6	31,500	52.6	128.9	26,200	55.1	125.4	21,000	115
120	47.5	125.9	29,500	50.2	124.2	25,300	52.6	120.5	20,500	120
125	45.0	120.8	27,700	47.7	119.0	24,600	50.0	115.2	20,000	125
130	42.4	115.2	26,000	45.0	113.4	23,900	47.3	109.3	19,600	130
135	39.6	109.1	24,500	42.2	107.1	23,200	44.4	102.8	19,200	135
137	38.4	106.4	23,900	41.0	104.4	23,000	43.1	100.0	19,100	137
140	36.7	102.3	23,000	39.2	100.2	22,600				140
145	33.5	94.7	21,700	36.0	92.4	22,000				145
150	30.0	86.1	20,400	32.4	83.5	20,700				150
151	29.3	84.1	20,200	31.6	81.6	20,400				151
155	26.1	76.0	19,200							155
160	21.5	63.7	18,100							160



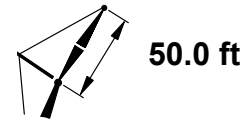
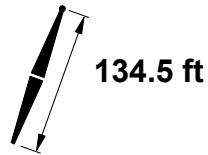
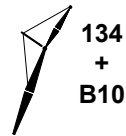
149,600 lb
+
60,400 lb

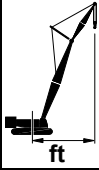
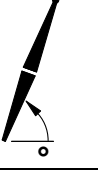
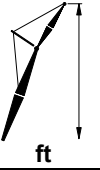
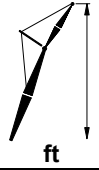
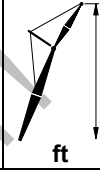


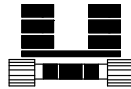
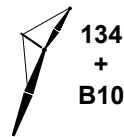
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
38	80.7	179.4	45,200							38
40	80.1	179.0	44,800							40
45	78.4	177.9	43,800							45
46	78.0	177.6	43,600	80.9	176.4	40,000				46
50	76.7	176.6	42,900	79.5	175.3	39,500				50
55	75.0	175.2	42,000	77.8	173.9	38,800	80.7	171.1	32,400	55
60	73.3	173.6	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	38,100	69.0	164.2	35,400	71.7	161.2	26,500	80
85	64.4	163.1	37,300	67.1	161.7	34,200	69.8	158.7	25,600	85
90	62.5	160.4	36,600	65.2	159.0	32,800	67.9	155.9	24,800	90
95	60.6	157.5	35,900	63.3	156.1	31,500	65.9	153.0	24,100	95
100	58.7	154.4	35,100	61.4	152.9	30,300	64.0	149.7	23,400	100
105	56.7	151.0	34,500	59.4	149.5	29,200	61.9	146.2	22,700	105
110	54.7	147.4	33,400	57.3	145.9	28,100	59.8	142.5	22,200	110
115	52.6	143.5	31,200	55.2	141.9	27,300	57.6	138.4	21,600	115
120	50.4	139.3	29,100	53.0	137.6	26,400	55.4	134.0	21,100	120
125	48.2	134.7	27,300	50.8	133.0	25,500	53.1	129.3	20,500	125
130	45.9	129.8	25,600	48.4	128.0	24,800	50.7	124.1	20,100	130
135	43.5	124.4	24,100	46.0	122.6	24,100	48.2	118.5	19,700	135
140	41.0	118.6	22,600	43.4	116.7	23,100	45.5	112.3	19,400	140
145	38.3	112.2	21,300	40.7	110.1	21,700	42.7	105.5	19,000	145
150	35.5	105.1	20,000	37.8	102.9	20,400				150
155	32.4	97.2	18,900	34.7	94.8	19,200				155
160	29.0	88.2	17,800	31.2	85.5	18,000				160
165	25.2	77.7	16,700							165
169	21.7	67.7	15,900							169

MLC200 S-2

ASME B30.5



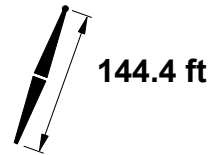
	5°			15°			25°			
 ft	 °	 ft	 lb	 °	 ft	 lb	 °	 ft	 lb	 ft
39	80.9	189.2	45,000							39
40	80.6	189.0	44,800							40
45	79.0	188.0	43,900							45
48	78.1	187.3	43,400	80.8	186.0	39,800				48
50	77.4	186.8	43,000	80.1	185.5	39,500				50
55	75.8	185.4	42,200	78.5	184.1	38,900				55
56	75.5	185.1	42,000	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	38,500	70.2	175.0	35,800	72.8	172.0	27,100	80
85	65.8	174.1	37,800	68.4	172.7	35,200	71.0	169.7	26,200	85
90	64.1	171.6	37,100	66.7	170.2	33,800	69.2	167.1	25,400	90
95	62.3	168.9	36,400	64.9	167.5	32,500	67.4	164.3	24,700	95
100	60.5	166.0	35,700	63.1	164.5	31,300	65.6	161.3	23,900	100
105	58.7	162.9	35,100	61.3	161.4	30,200	63.7	158.1	23,300	105
110	56.8	159.5	32,900	59.4	158.0	29,200	61.8	154.7	22,700	110
115	54.9	156.0	30,700	57.4	154.4	28,200	59.8	151.0	22,100	115
120	53.0	152.1	28,600	55.4	150.5	27,300	57.8	147.0	21,600	120
125	50.9	148.0	26,800	53.4	146.3	26,500	55.7	142.7	21,100	125
130	48.9	143.5	25,100	51.3	141.8	25,700	53.5	138.0	20,600	130
135	46.7	138.7	23,600	49.1	137.0	24,100	51.3	133.0	20,200	135
140	44.5	133.6	22,100	46.9	131.7	22,600	48.9	127.6	19,800	140
145	42.1	128.0	20,800	44.5	126.0	21,200	46.5	121.7	19,500	145
150	39.7	121.9	19,500	42.0	119.8	20,000	43.9	115.3	19,200	150
152	38.7	119.2	19,100	40.9	117.1	19,500	42.8	112.5	19,100	152
155	37.1	115.2	18,400	39.4	113.0	18,700				155
160	34.3	107.8	17,300	36.5	105.5	17,600				160
165	31.4	99.6	16,300	33.5	97.1	16,500				165
168	29.4	94.0	15,700	31.5	91.4	15,900				168
170	28.1	90.3	15,300							170
175	24.3	79.4	14,400							175
179	20.9	69.0	13,700							179



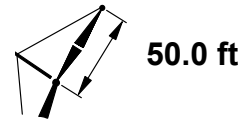
149,600 lb
+
60,400 lb



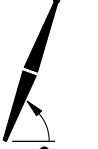
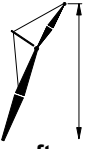
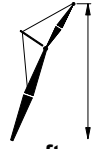
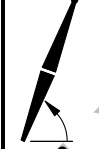
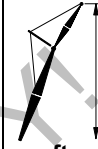
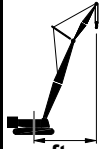
360°

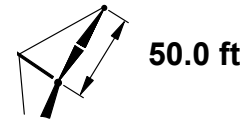
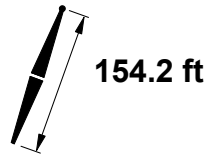
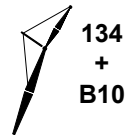


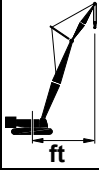
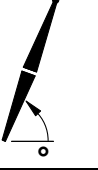
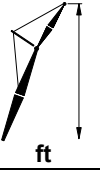
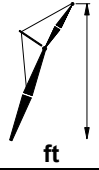
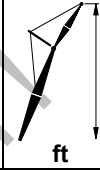
144.4 ft

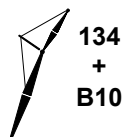


50.0 ft

	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	38,800	71.3	185.7	36,000	73.8	182.7	27,600	80
85	67.1	185.0	38,200	69.6	183.6	35,500	72.1	180.5	26,700	85
90	65.5	182.6	37,500	68.0	181.2	34,900	70.4	178.1	26,000	90
95	63.9	180.1	36,900	66.3	178.6	33,600	68.7	175.5	25,200	95
100	62.2	177.4	36,200	64.6	175.9	32,300	67.0	172.7	24,500	100
105	60.5	174.5	35,000	62.9	173.0	31,200	65.3	169.7	23,800	105
110	58.7	171.4	32,600	61.2	169.8	30,200	63.5	166.5	23,200	110
115	57.0	168.0	30,400	59.4	166.5	29,200	61.6	163.1	22,600	115
120	55.2	164.5	28,400	57.5	162.9	28,300	59.8	159.4	22,100	120
125	53.3	160.7	26,500	55.7	159.1	27,200	57.9	155.5	21,600	125
130	51.4	156.6	24,800	53.7	155.0	25,500	55.9	151.3	21,100	130
135	49.5	152.3	23,300	51.8	150.5	23,900	53.9	146.8	20,700	135
140	47.4	147.6	21,800	49.7	145.8	22,400	51.8	141.9	20,300	140
145	45.3	142.6	20,500	47.6	140.7	21,000	49.6	136.7	19,900	145
150	43.2	137.2	19,300	45.4	135.3	19,700	47.3	131.0	19,600	150
155	40.9	131.4	18,100	43.1	129.3	18,500	44.9	124.9	18,900	155
159	39.0	126.3	17,200	41.2	124.2	17,600	42.9	119.5	17,900	159
160	38.5	125.0	17,000	40.7	122.9	17,400				160
165	36.0	118.1	16,000	38.1	115.8	16,300				165
170	33.3	110.4	15,000	35.3	108.0	15,300				170
175	30.4	101.9	14,100	32.4	99.2	14,400				175
176	29.7	100.0	14,000	31.7	97.3	14,200				176
180	27.2	92.2	13,300							180
185	23.5	80.9	12,500							185
188	21.0	73.0	12,000							188



	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	39,100	72.2	196.4	36,300	74.6	193.3	28,100	80
85	68.3	195.7	38,500	70.7	194.3	35,800	73.1	191.2	27,200	85
90	66.8	193.5	37,900	69.1	192.1	35,200	71.5	188.9	26,400	90
95	65.2	191.1	37,300	67.6	189.7	34,500	69.9	186.5	25,700	95
100	63.7	188.6	36,600	66.0	187.1	33,300	68.3	183.9	25,000	100
105	62.1	185.9	34,500	64.4	184.4	32,100	66.6	181.1	24,300	105
110	60.4	182.9	32,100	62.7	181.4	31,100	65.0	178.1	23,700	110
115	58.8	179.9	29,900	61.1	178.3	30,100	63.3	174.9	23,200	115
120	57.1	176.5	27,900	59.4	175.0	28,700	61.5	171.5	22,600	120
125	55.4	173.0	26,000	57.6	171.4	26,800	59.8	167.9	22,100	125
130	53.6	169.3	24,300	55.9	167.6	25,000	57.9	164.0	21,600	130
135	51.8	165.3	22,800	54.0	163.6	23,400	56.1	159.9	21,200	135
140	50.0	161.0	21,400	52.2	159.3	21,900	54.2	155.5	20,800	140
145	48.1	156.4	20,000	50.3	154.6	20,600	52.2	150.7	20,400	145
150	46.1	151.6	18,800	48.3	149.7	19,300	50.1	145.6	19,700	150
155	44.1	146.3	17,600	46.2	144.4	18,100	48.0	140.2	18,500	155
160	42.0	140.7	16,500	44.1	138.7	17,000	45.8	134.3	17,300	160
165	39.8	134.6	15,500	41.8	132.5	15,900	43.5	127.9	16,200	165
166	39.3	133.3	15,300	41.3	131.2	15,700	43.0	126.5	16,000	166
170	37.4	128.0	14,600	39.5	125.8	14,900				170
175	35.0	120.9	13,700	37.0	118.5	14,000				175
180	32.4	112.9	12,800	34.3	110.4	13,100				180
185	29.5	104.1	12,000	31.3	101.3	12,200				185
190	26.4	94.1	11,200							190
195	22.8	82.4	10,500							195
197	21.2	77.1	10,200							197



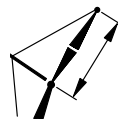
149,600 lb
+
60,400 lb



360°

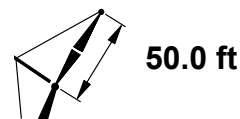
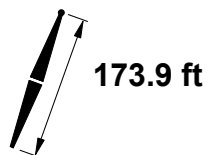
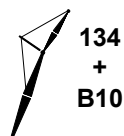


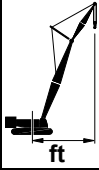
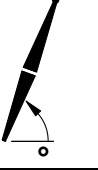
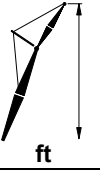
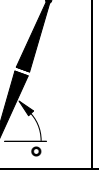
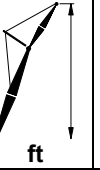
164.0 ft

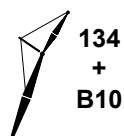


50.0 ft

	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	39,200	73.1	206.9	36,500	75.4	203.8	28,600	80
85	69.4	206.4	38,700	71.6	204.9	35,900	73.9	201.8	27,700	85
90	67.9	204.3	38,100	70.2	202.8	35,500	72.4	199.7	26,900	90
95	66.5	202.0	37,600	68.7	200.6	35,000	70.9	197.4	26,100	95
100	65.0	199.6	36,800	67.2	198.1	34,200	69.4	194.9	25,500	100
105	63.5	197.1	34,100	65.7	195.6	33,100	67.8	192.3	24,800	105
110	61.9	194.3	31,700	64.1	192.8	32,000	66.3	189.5	24,200	110
115	60.4	191.4	29,500	62.6	189.9	30,400	64.7	186.5	23,600	115
120	58.8	188.3	27,500	61.0	186.8	28,300	63.1	183.3	23,100	120
125	57.2	185.0	25,600	59.4	183.4	26,400	61.4	180.0	22,600	125
130	55.6	181.6	23,900	57.7	179.9	24,700	59.7	176.4	22,100	130
135	53.9	177.8	22,400	56.0	176.2	23,100	58.0	172.5	21,600	135
140	52.2	173.9	20,900	54.3	172.2	21,600	56.3	168.5	21,200	140
145	50.5	169.7	19,600	52.6	167.9	20,200	54.4	164.1	20,700	145
150	48.7	165.2	18,400	50.7	163.4	18,900	52.6	159.5	19,400	150
155	46.8	160.5	17,200	48.9	158.6	17,700	50.7	154.5	18,200	155
160	44.9	155.4	16,100	46.9	153.5	16,600	48.7	149.2	17,000	160
165	42.9	149.9	15,100	44.9	147.9	15,500	46.6	143.6	15,900	165
170	40.9	144.1	14,200	42.8	142.0	14,600	44.4	137.4	14,900	170
174	39.1	139.0	13,400	41.1	136.9	13,800	42.6	132.2	14,100	174
175	38.7	137.8	13,300	40.6	135.6	13,600				175
180	36.4	131.0	12,400	38.3	128.7	12,700				180
185	34.0	123.5	11,600	35.9	121.1	11,900				185
190	31.5	115.4	10,800	33.3	112.7	11,100				190
193	29.8	109.9	10,400	31.6	107.2	10,600				193
195	28.7	106.2	10,100							195
200	25.6	95.9	9,400							200
205	22.1	83.8	8,800							205
206	21.3	81.1	8,600							206



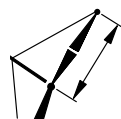
	5°			15°			25°			
										
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
45	81.0	228.1	43,800							45
50	79.7	227.1	43,100							50
54	78.6	226.3	42,500	80.9	224.9	39,100				54
55	78.4	226.1	42,400	80.6	224.7	39,000				55
60	77.0	224.9	41,700	79.3	223.5	38,500				60
62	76.5	224.3	41,500	78.7	222.9	38,300	81.0	219.9	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	39,900	75.2	219.1	37,100	77.4	216.0	29,800	75
80	71.7	218.8	39,400	73.9	217.4	36,600	76.1	214.3	28,900	80
85	70.3	216.9	38,800	72.5	215.5	36,100	74.7	212.4	28,100	85
90	68.9	214.9	38,300	71.1	213.5	35,700	73.3	210.4	27,300	90
95	67.6	212.8	37,800	69.7	211.4	35,200	71.8	208.2	26,600	95
100	66.2	210.5	36,300	68.3	209.1	34,800	70.4	205.9	25,900	100
105	64.7	208.1	33,600	66.9	206.6	33,900	68.9	203.4	25,300	105
110	63.3	205.5	31,200	65.4	204.0	32,200	67.5	200.7	24,600	110
115	61.8	202.8	29,000	63.9	201.3	29,900	66.0	197.9	24,000	115
120	60.3	199.9	27,000	62.4	198.3	27,900	64.4	194.9	23,600	120
125	58.8	196.8	25,100	60.9	195.2	26,000	62.9	191.8	23,100	125
130	57.3	193.5	23,400	59.4	191.9	24,200	61.3	188.4	22,600	130
135	55.8	190.1	21,900	57.8	188.4	22,600	59.7	184.8	22,100	135
140	54.2	186.4	20,400	56.2	184.7	21,100	58.1	181.1	21,700	140
145	52.5	182.5	19,100	54.6	180.8	19,800	56.4	177.0	20,300	145
150	50.9	178.4	17,900	52.9	176.6	18,500	54.7	172.8	19,000	150
155	49.2	174.0	16,700	51.2	172.2	17,300	52.9	168.2	17,800	155
160	47.4	169.3	15,600	49.4	167.5	16,200	51.1	163.4	16,600	160
165	45.6	164.4	14,600	47.6	162.5	15,100	49.2	158.2	15,500	165
170	43.8	159.1	13,700	45.7	157.1	14,100	47.3	152.7	14,500	170
175	41.8	153.4	12,800	43.7	151.4	13,200	45.3	146.8	13,500	175
180	39.8	147.4	11,900	41.7	145.2	12,300	43.2	140.5	12,600	180
181	39.4	146.1	11,800	41.3	143.9	12,100	42.7	139.1	12,400	181
185	37.7	140.9	11,100	39.5	138.6	11,500				185
190	35.5	133.8	10,400	37.3	131.4	10,700				190
195	33.2	126.1	9,600	34.9	123.6	9,900				195
200	30.6	117.7	9,000	32.3	114.9	9,200				200
202	29.5	113.9	8,700	31.2	111.2	8,900				202
205	27.9	108.3	8,300							205
210	24.9	97.6	7,700							210
215	21.5	85.2	7,100							215



149,600 lb
+
60,400 lb

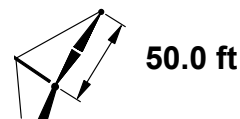
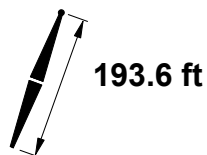
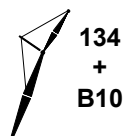


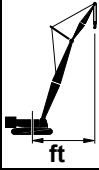
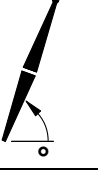
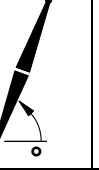
183.7 ft

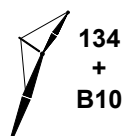


50.0 ft

	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	39,900	75.9	229.4	37,200	78.0	226.3	30,200	75
80	72.5	229.2	39,400	74.6	227.8	36,700	76.7	224.7	29,300	80
85	71.2	227.4	38,900	73.3	226.0	36,200	75.4	222.9	28,500	85
90	69.9	225.5	38,400	72.0	224.1	35,800	74.0	220.9	27,700	90
95	68.6	223.5	37,900	70.6	222.1	35,400	72.7	218.9	27,000	95
100	67.2	221.4	36,000	69.3	219.9	34,900	71.3	216.7	26,300	100
105	65.9	219.1	33,300	67.9	217.6	34,400	69.9	214.3	25,700	105
110	64.5	216.6	30,900	66.5	215.1	31,900	68.5	211.8	25,000	110
115	63.1	214.0	28,700	65.2	212.5	29,600	67.1	209.2	24,500	115
120	61.7	211.3	26,600	63.7	209.7	27,600	65.7	206.3	24,000	120
125	60.3	208.4	24,800	62.3	206.8	25,700	64.2	203.4	23,400	125
130	58.9	205.3	23,100	60.9	203.7	23,900	62.7	200.2	23,000	130
135	57.4	202.0	21,600	59.4	200.4	22,300	61.2	196.9	22,500	135
140	55.9	198.6	20,100	57.9	196.9	20,800	59.7	193.3	21,500	140
145	54.4	195.0	18,800	56.4	193.3	19,500	58.2	189.6	20,100	145
150	52.9	191.1	17,500	54.8	189.4	18,200	56.6	185.6	18,800	150
155	51.3	187.0	16,400	53.2	185.3	17,000	54.9	181.4	17,500	155
160	49.7	182.7	15,300	51.6	180.9	15,900	53.3	176.9	16,400	160
165	48.0	178.2	14,300	49.9	176.3	14,800	51.5	172.2	15,300	165
170	46.3	173.3	13,300	48.2	171.4	13,800	49.8	167.2	14,300	170
175	44.5	168.2	12,400	46.4	166.2	12,900	47.9	161.8	13,300	175
180	42.7	162.7	11,600	44.5	160.6	12,000	46.0	156.1	12,400	180
185	40.8	156.8	10,800	42.6	154.7	11,200	44.1	150.0	11,500	185
188	39.6	153.1	10,400	41.4	150.9	10,700	42.8	146.1	11,000	188
190	38.9	150.6	10,100	40.6	148.4	10,400				190
195	36.8	143.8	9,300	38.5	141.5	9,700				195
200	34.6	136.6	8,700	36.3	134.1	8,900				200
205	32.3	128.6	8,000	34.0	126.0	8,300				205
210	29.9	119.9	7,400	31.5	117.1	7,600				210
215	27.2	110.3	6,800							215
220	24.2	99.3	6,200							220
225	20.9	86.5	5,700							225



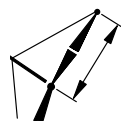
	5°			15°			25°			
 ft	 °	ft	lb	 °	ft	lb	 °	ft	lb	 ft
48	81.0	247.6	43,000							48
50	80.5	247.2	42,800							50
55	79.3	246.2	42,200							55
57	78.8	245.8	41,900	80.9	244.4	38,600				57
60	78.1	245.1	41,600	80.2	243.7	38,300				60
65	76.9	243.9	41,000	78.9	242.5	37,900	81.0	239.4	32,500	65
70	75.7	242.6	40,500	77.7	241.1	37,600	79.8	238.1	31,500	70
75	74.5	241.1	39,900	76.5	239.7	37,200	78.5	236.6	30,600	75
80	73.2	239.6	39,400	75.2	238.1	36,800	77.3	235.0	29,700	80
85	72.0	237.9	38,900	74.0	236.4	36,300	76.0	233.3	28,900	85
90	70.7	236.1	38,400	72.7	234.6	35,900	74.7	231.4	28,100	90
95	69.5	234.1	38,000	71.5	232.7	35,500	73.4	229.5	27,400	95
100	68.2	232.1	35,600	70.2	230.6	35,100	72.1	227.4	26,800	100
105	66.9	229.9	32,800	68.9	228.4	34,000	70.8	225.1	26,000	105
110	65.6	227.6	30,400	67.6	226.1	31,500	69.5	222.8	25,500	110
115	64.3	225.1	28,200	66.3	223.6	29,200	68.2	220.3	24,900	115
120	63.0	222.5	26,200	64.9	221.0	27,100	66.8	217.6	24,400	120
125	61.6	219.8	24,300	63.6	218.2	25,200	65.4	214.8	23,900	125
130	60.3	216.9	22,600	62.2	215.3	23,500	64.0	211.8	23,400	130
135	58.9	213.8	21,100	60.8	212.2	21,900	62.6	208.6	22,700	135
140	57.5	210.5	19,600	59.4	208.9	20,400	61.2	205.3	21,100	140
145	56.1	207.1	18,300	58.0	205.4	19,000	59.7	201.8	19,700	145
150	54.6	203.5	17,100	56.5	201.8	17,700	58.2	198.1	18,400	150
155	53.1	199.7	15,900	55.0	198.0	16,500	56.7	194.2	17,100	155
160	51.6	195.7	14,800	53.5	193.9	15,400	55.1	190.0	16,000	160
165	50.1	191.4	13,800	51.9	189.6	14,400	53.5	185.6	14,900	165
170	48.5	186.9	12,900	50.3	185.1	13,400	51.9	181.0	13,800	170
175	46.9	182.2	12,000	48.7	180.3	12,500	50.2	176.1	12,900	175
180	45.2	177.2	11,100	47.0	175.2	11,600	48.5	170.9	12,000	180
185	43.5	171.8	10,300	45.2	169.8	10,700	46.7	165.3	11,100	185
190	41.7	166.2	9,600	43.4	164.1	10,000	44.9	159.4	10,300	190
195	39.9	160.1	8,800	41.6	157.9	9,200	42.9	153.1	9,500	195
200	37.9	153.7	8,200	39.6	151.4	8,500				200
205	35.9	146.7	7,500	37.6	144.3	7,800				205
210	33.8	139.2	6,900	35.4	136.7	7,200				210
215	31.6	131.1	6,300	33.1	128.4	6,500				215
218	30.1	125.7	6,000	31.7	123.0	6,200				218
220	29.1	122.1	5,700							220
225	26.5	112.2	5,200							225
230	23.6	100.9	4,700							230
234	21.0	90.5	4,300							234



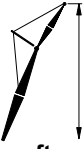
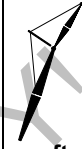
149,600 lb
+
60,400 lb

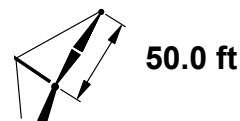
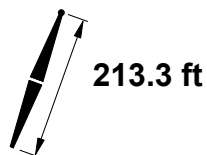
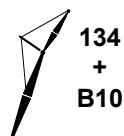


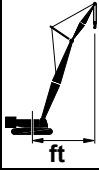
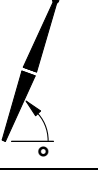
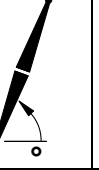
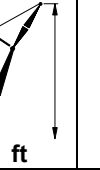
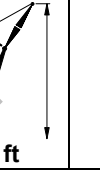
203.4 ft

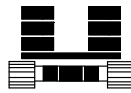
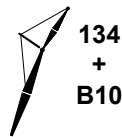


50.0 ft

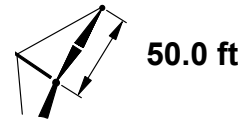
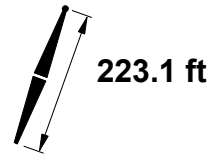
	5°			15°			25°			
 ft	 o	 ft	 lb	 o	 ft	 lb	 o	 ft	 lb	 ft
50	80.9	257.2	42,600							50
55	79.7	256.3	42,000							55
58	79.0	255.6	41,600	81.0	254.2	38,400				58
60	78.6	255.2	41,400	80.5	253.8	38,200				60
65	77.4	254.0	40,800	79.4	252.6	37,800				65
67	77.0	253.5	40,600	78.9	252.1	37,700	80.9	249.0	32,400	67
70	76.3	252.8	40,300	78.2	251.3	37,500	80.2	248.2	31,800	70
75	75.1	251.4	39,800	77.0	249.9	37,100	79.0	246.8	30,900	75
80	73.9	249.9	39,300	75.8	248.4	36,800	77.8	245.3	30,100	80
85	72.7	248.3	38,900	74.6	246.8	36,400	76.6	243.7	29,300	85
90	71.5	246.5	38,400	73.4	245.1	36,000	75.4	241.9	28,500	90
95	70.3	244.7	38,000	72.2	243.2	35,600	74.1	240.0	27,800	95
100	69.1	242.7	35,200	71.0	241.3	35,200	72.9	238.0	27,100	100
105	67.9	240.7	32,400	69.8	239.2	33,700	71.6	235.9	26,400	105
110	66.6	238.4	30,000	68.5	236.9	31,100	70.4	233.6	25,800	110
115	65.4	236.1	27,800	67.3	234.6	28,900	69.1	231.2	25,300	115
120	64.1	233.6	25,700	66.0	232.1	26,800	67.8	228.7	24,800	120
125	62.8	231.0	23,900	64.7	229.4	24,900	66.5	226.0	24,300	125
130	61.6	228.2	22,200	63.4	226.7	23,100	65.2	223.2	23,800	130
135	60.2	225.3	20,700	62.1	223.7	21,500	63.8	220.2	22,300	135
140	58.9	222.3	19,200	60.8	220.6	20,000	62.5	217.1	20,800	140
145	57.6	219.0	17,900	59.4	217.4	18,600	61.1	213.8	19,400	145
150	56.2	215.6	16,600	58.0	213.9	17,400	59.7	210.3	18,000	150
155	54.8	212.0	15,500	56.6	210.3	16,200	58.3	206.6	16,800	155
160	53.4	208.3	14,400	55.2	206.5	15,000	56.8	202.7	15,600	160
165	51.9	204.3	13,400	53.7	202.5	14,000	55.3	198.6	14,500	165
170	50.5	200.1	12,400	52.2	198.3	13,000	53.8	194.3	13,500	170
175	49.0	195.7	11,500	50.7	193.8	12,100	52.2	189.8	12,500	175
180	47.4	191.1	10,700	49.2	189.1	11,200	50.6	184.9	11,600	180
185	45.8	186.1	9,900	47.5	184.2	10,400	49.0	179.9	10,800	185
190	44.2	180.9	9,100	45.9	178.9	9,600	47.3	174.5	9,900	190
195	42.5	175.4	8,400	44.2	173.3	8,800	45.6	168.7	9,200	195
200	40.8	169.6	7,700	42.4	167.4	8,100	43.7	162.6	8,400	200
203	39.7	165.8	7,400	41.3	163.6	7,700	42.6	158.8	8,000	203
205	39.0	163.4	7,100	40.6	161.1	7,400				205
210	37.1	156.7	6,500	38.7	154.3	6,800				210
215	35.1	149.5	5,900	36.7	147.1	6,200				215
220	33.0	141.8	5,300	34.6	139.2	5,600				220
225	30.8	133.4	4,800	32.3	130.6	5,000				225
227	29.9	129.8	4,600	31.4	127.0	4,800				227
230	28.5	124.2	4,300							230

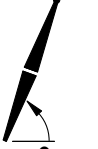
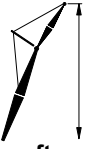
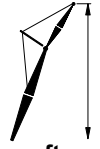
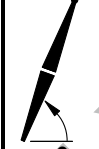
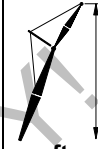
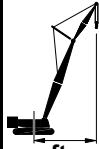


	5°			15°			25°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
51	81.0	267.0	42,100							51
55	80.1	266.3	41,700							55
60	79.0	265.3	41,200	80.9	263.8	38,000				60
65	77.9	264.1	40,700	79.8	262.7	37,600				65
68	77.2	263.4	40,400	79.1	262.0	37,400	81.0	258.9	32,500	68
70	76.8	262.9	40,200	78.7	261.5	37,300	80.6	258.4	32,100	70
75	75.7	261.6	39,700	77.5	260.1	37,000	79.4	257.0	31,200	75
80	74.5	260.2	39,200	76.4	258.7	36,700	78.3	255.6	30,400	80
85	73.4	258.6	38,800	75.2	257.2	36,300	77.1	254.0	29,600	85
90	72.2	257.0	38,300	74.1	255.5	36,000	75.9	252.3	28,800	90
95	71.1	255.2	37,700	72.9	253.7	35,600	74.8	250.5	28,100	95
100	69.9	253.3	34,700	71.8	251.8	35,300	73.6	248.6	27,500	100
105	68.7	251.3	32,000	70.6	249.8	33,300	72.4	246.6	26,900	105
110	67.6	249.2	29,500	69.4	247.7	30,700	71.2	244.4	26,300	110
115	66.4	247.0	27,300	68.2	245.4	28,400	70.0	242.1	25,700	115
120	65.2	244.6	25,300	67.0	243.1	26,300	68.7	239.7	25,200	120
125	64.0	242.1	23,400	65.8	240.6	24,400	67.5	237.1	24,600	125
130	62.7	239.5	21,700	64.5	237.9	22,700	66.2	234.5	23,600	130
135	61.5	236.7	20,200	63.3	235.1	21,100	65.0	231.6	21,900	135
140	60.2	233.8	18,700	62.0	232.2	19,600	63.7	228.6	20,400	140
145	58.9	230.7	17,400	60.7	229.1	18,200	62.4	225.5	19,000	145
150	57.6	227.5	16,100	59.4	225.8	16,900	61.0	222.2	17,600	150
155	56.3	224.1	15,000	58.1	222.4	15,700	59.7	218.7	16,400	155
160	55.0	220.6	13,900	56.7	218.8	14,600	58.3	215.1	15,200	160
165	53.6	216.8	12,900	55.4	215.1	13,500	56.9	211.2	14,100	165
170	52.2	212.9	11,900	54.0	211.1	12,500	55.5	207.2	13,100	170
175	50.8	208.8	11,000	52.5	207.0	11,600	54.0	203.0	12,100	175
180	49.4	204.4	10,200	51.1	202.6	10,700	52.6	198.5	11,200	180
185	47.9	199.9	9,400	49.6	198.0	9,900	51.0	193.8	10,300	185
190	46.4	195.1	8,600	48.1	193.1	9,100	49.5	188.8	9,500	190
195	44.9	190.0	7,900	46.5	188.0	8,400	47.9	183.5	8,700	195
200	43.3	184.6	7,200	44.9	182.5	7,700	46.2	178.0	8,000	200
205	41.6	178.9	6,600	43.2	176.8	7,000	44.5	172.0	7,300	205
210	39.9	172.9	6,000	41.5	170.7	6,300	42.7	165.8	6,600	210
215	38.1	166.5	5,400	39.7	164.2	5,700				215
220	36.3	159.6	4,800	37.8	157.2	5,100				220
225	34.3	152.3	4,300	35.8	149.7	4,600				225
230				33.8	141.6	4,000				230



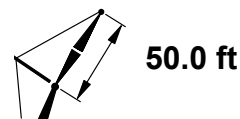
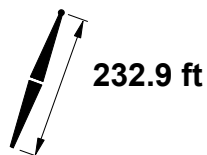
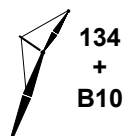
149,600 lb
+
60,400 lb



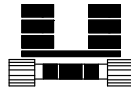
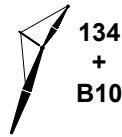
	5°			15°			25°			
										
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
53	80.9	276.7	41,700							53
55	80.5	276.3	41,500							55
60	79.4	275.3	41,000							60
61	79.2	275.1	40,900	81.0	273.7	37,800				61
65	78.3	274.2	40,500	80.2	272.8	37,600				65
70	77.3	273.1	40,100	79.1	271.6	37,200	80.9	268.5	32,300	70
75	76.2	271.8	39,500	78.0	270.3	36,900	79.8	267.2	31,500	75
80	75.1	270.4	39,100	76.9	269.0	36,600	78.7	265.8	30,600	80
85	74.0	268.9	38,600	75.8	267.5	36,300	77.6	264.3	29,900	85
90	72.9	267.3	38,300	74.7	265.9	36,000	76.5	262.7	29,100	90
95	71.8	265.7	37,300	73.6	264.2	35,600	75.4	260.9	28,500	95
100	70.7	263.9	34,200	72.5	262.4	35,200	74.2	259.1	27,800	100
105	69.6	261.9	31,500	71.3	260.4	32,800	73.1	257.1	27,200	105
110	68.4	259.9	29,000	70.2	258.4	30,300	71.9	255.1	26,600	110
115	67.3	257.8	26,800	69.0	256.2	28,000	70.8	252.9	26,000	115
120	66.1	255.5	24,800	67.9	254.0	25,900	69.6	250.6	25,500	120
125	65.0	253.1	23,000	66.7	251.6	24,000	68.4	248.2	25,000	125
130	63.8	250.6	21,300	65.5	249.0	22,300	67.2	245.6	23,200	130
135	62.6	248.0	19,700	64.3	246.4	20,600	66.0	242.9	21,500	135
140	61.4	245.2	18,300	63.1	243.6	19,100	64.8	240.1	20,000	140
145	60.2	242.3	16,900	61.9	240.6	17,800	63.5	237.1	18,600	145
150	59.0	239.2	15,700	60.7	237.6	16,500	62.3	233.9	17,200	150
155	57.7	236.0	14,500	59.4	234.3	15,300	61.0	230.7	16,000	155
160	56.4	232.6	13,400	58.1	230.9	14,100	59.7	227.2	14,800	160
165	55.2	229.1	12,400	56.8	227.4	13,100	58.4	223.6	13,700	165
170	53.9	225.4	11,500	55.5	223.6	12,100	57.0	219.8	12,700	170
175	52.5	221.5	10,600	54.2	219.7	11,200	55.7	215.8	11,700	175
180	51.2	217.4	9,700	52.8	215.6	10,300	54.3	211.6	10,800	180
185	49.8	213.2	8,900	51.4	211.3	9,500	52.8	207.2	10,000	185
190	48.4	208.7	8,200	50.0	206.7	8,700	51.4	202.6	9,100	190
195	46.9	203.9	7,500	48.5	202.0	7,900	49.9	197.7	8,400	195
200	45.5	199.0	6,800	47.0	196.9	7,200	48.4	192.5	7,600	200
205	43.9	193.7	6,100	45.5	191.6	6,600	46.8	187.1	6,900	205
210	42.4	188.2	5,500	43.9	186.0	5,900	45.2	181.4	6,200	210
215	40.7	182.3	4,900	42.3	180.1	5,300	43.5	175.3	5,600	215
217	40.1	179.8	4,700	41.6	177.6	5,100	42.8	172.7	5,400	217
220	39.1	176.1	4,400	40.6	173.8	4,700				220
225				38.8	167.1	4,200				225

MLC200 S-2

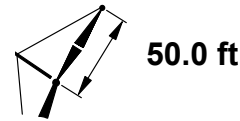
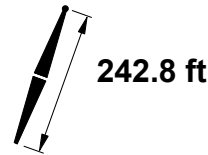
ASME B30.5



	5°			15°			25°			
	ft	o	ft	lb	o	ft	lb	o	ft	lb
54	81.0	286.5	41,300							54
55	80.8	286.3	41,200							55
60	79.8	285.4	40,700							60
63	79.2	284.7	40,400	80.9	283.3	37,500				63
65	78.8	284.3	40,300	80.5	282.9	37,400				65
70	77.7	283.2	39,800	79.5	281.7	37,000				70
72	77.3	282.7	39,600	79.1	281.2	36,900	80.8	278.1	32,300	72
75	76.7	282.0	39,400	78.4	280.5	36,700	80.2	277.3	31,800	75
80	75.6	280.6	38,900	77.4	279.2	36,500	79.1	276.0	31,000	80
85	74.6	279.2	38,400	76.3	277.7	36,200	78.1	274.5	30,200	85
90	73.5	277.7	38,100	75.2	276.2	35,900	77.0	273.0	29,500	90
95	72.5	276.1	37,400	74.2	274.6	35,600	75.9	271.3	28,800	95
100	71.4	274.3	34,300	73.1	272.8	35,200	74.8	269.6	28,200	100
105	70.3	272.5	31,600	72.0	271.0	32,900	73.7	267.7	27,500	105
110	69.2	270.5	29,100	70.9	269.0	30,400	72.6	265.7	26,900	110
115	68.1	268.5	26,900	69.8	267.0	28,100	71.5	263.6	26,400	115
120	67.0	266.3	24,900	68.7	264.8	26,000	70.4	261.4	25,900	120
125	65.9	264.0	23,000	67.6	262.5	24,100	69.2	259.1	25,100	125
130	64.8	261.6	21,300	66.5	260.1	22,300	68.1	256.6	23,300	130
135	63.6	259.1	19,800	65.3	257.5	20,700	66.9	254.0	21,600	135
140	62.5	256.5	18,300	64.2	254.8	19,200	65.7	251.3	20,100	140
145	61.3	253.7	17,000	63.0	252.0	17,800	64.6	248.5	18,600	145
150	60.2	250.8	15,700	61.8	249.1	16,500	63.4	245.5	17,300	150
155	59.0	247.7	14,600	60.6	246.0	15,300	62.1	242.4	16,100	155
160	57.8	244.5	13,500	59.4	242.8	14,200	60.9	239.1	14,900	160
165	56.6	241.1	12,500	58.2	239.4	13,200	59.7	235.7	13,800	165
170	55.3	237.6	11,500	56.9	235.9	12,200	58.4	232.1	12,800	170
175	54.1	234.0	10,600	55.7	232.2	11,200	57.1	228.3	11,800	175
180	52.8	230.1	9,800	54.4	228.3	10,400	55.8	224.4	10,900	180
185	51.5	226.1	9,000	53.1	224.2	9,500	54.5	220.2	10,000	185
190	50.2	221.9	8,200	51.7	220.0	8,800	53.1	215.9	9,200	190
195	48.8	217.4	7,500	50.4	215.5	8,000	51.7	211.3	8,500	195
200	47.4	212.8	6,800	49.0	210.8	7,300	50.3	206.5	7,700	200
205	46.0	207.9	6,200	47.5	205.9	6,600	48.8	201.5	7,000	205
210	44.5	202.8	5,600	46.1	200.7	6,000	47.3	196.2	6,300	210
215	43.1	197.4	5,000	44.6	195.2	5,400	45.8	190.6	5,700	215
220	41.5	191.7	4,400	43.0	189.5	4,800	44.2	184.7	5,100	220
224				41.7	184.6	4,400	42.9	179.7	4,600	224
225				41.4	183.4	4,200				225



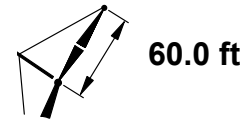
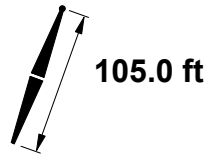
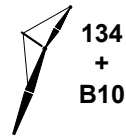
149,600 lb
+
60,400 lb

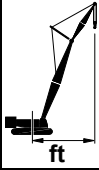
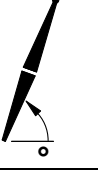
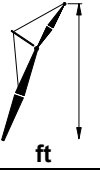
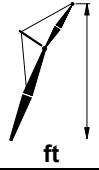
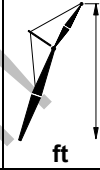


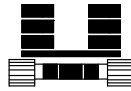
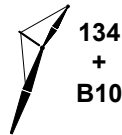
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
56	80.9	296.1	40,800							56
60	80.1	295.4	40,400							60
65	79.1	294.4	39,900	80.8	292.9	37,100				65
70	78.1	293.3	39,500	79.8	291.8	36,800				70
73	77.5	292.6	39,200	79.2	291.1	36,600	80.9	287.9	32,400	73
75	77.1	292.1	39,000	78.8	290.6	36,500	80.5	287.4	32,000	75
80	76.1	290.8	38,700	77.8	289.4	36,300	79.5	286.1	31,200	80
85	75.1	289.5	38,300	76.8	288.0	36,000	78.5	284.8	30,500	85
90	74.1	288.0	37,900	75.8	286.5	35,700	77.4	283.3	29,800	90
95	73.1	286.4	37,000	74.7	284.9	35,400	76.4	281.7	29,100	95
100	72.0	284.8	33,900	73.7	283.2	35,200	75.3	280.0	28,500	100
105	71.0	283.0	31,200	72.6	281.5	32,600	74.3	278.2	27,900	105
110	69.9	281.1	28,700	71.6	279.6	30,000	73.2	276.3	27,300	110
115	68.9	279.1	26,500	70.5	277.6	27,700	72.2	274.3	26,700	115
120	67.8	277.1	24,500	69.5	275.5	25,600	71.1	272.1	26,200	120
125	66.8	274.9	22,600	68.4	273.3	23,700	70.0	269.9	24,800	125
130	65.7	272.6	20,900	67.3	271.0	22,000	68.9	267.6	23,000	130
135	64.6	270.1	19,300	66.2	268.5	20,300	67.8	265.1	21,300	135
140	63.5	267.6	17,900	65.1	266.0	18,800	66.7	262.5	19,700	140
145	62.4	264.9	16,600	64.0	263.3	17,400	65.5	259.8	18,300	145
150	61.3	262.1	15,300	62.9	260.5	16,200	64.4	256.9	17,000	150
155	60.1	259.2	14,100	61.7	257.6	14,900	63.2	254.0	15,700	155
160	59.0	256.2	13,100	60.6	254.5	13,800	62.1	250.8	14,500	160
165	57.8	253.0	12,000	59.4	251.3	12,800	60.9	247.6	13,500	165
170	56.7	249.6	11,100	58.2	247.9	11,800	59.7	244.2	12,400	170
175	55.5	246.2	10,200	57.0	244.4	10,900	58.4	240.6	11,500	175
180	54.2	242.5	9,400	55.8	240.7	10,000	57.2	236.8	10,500	180
185	53.0	238.7	8,600	54.6	236.9	9,100	55.9	232.9	9,700	185
190	51.8	234.7	7,800	53.3	232.9	8,400	54.7	228.8	8,900	190
195	50.5	230.5	7,100	52.0	228.7	7,600	53.3	224.6	8,100	195
200	49.2	226.2	6,400	50.7	224.2	6,900	52.0	220.1	7,400	200
205	47.9	221.6	5,800	49.4	219.6	6,200	50.6	215.4	6,700	205
210	46.5	216.8	5,200	48.0	214.8	5,600	49.2	210.4	6,000	210
215	45.1	211.8	4,600	46.6	209.7	5,000	47.8	205.2	5,300	215
220	43.7	206.5	4,000	45.1	204.4	4,400	46.3	199.8	4,700	220
225							44.8	194.0	4,200	225

MLC200 S-2

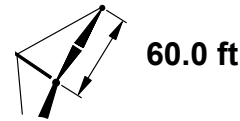
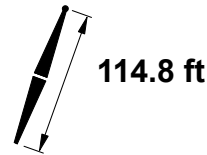
ASME B30.5



	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	28,400	60.5	141.9	25,300	63.9	138.5	19,800	100
105	54.4	139.1	27,900	58.3	138.3	24,500	61.6	134.8	19,100	105
110	52.2	135.1	27,200	56.1	134.3	23,600	59.3	130.7	18,500	110
115	49.9	130.8	26,100	53.8	130.0	22,700	57.0	126.3	18,000	115
120	47.5	126.2	25,000	51.4	125.3	21,900	54.5	121.5	17,500	120
125	45.1	121.1	23,900	48.9	120.3	21,100	51.9	116.2	17,000	125
130	42.5	115.5	23,000	46.3	114.7	20,400	49.2	110.4	16,600	130
135	39.7	109.4	22,200	43.5	108.6	19,700	46.3	104.1	16,200	135
140	36.8	102.7	21,400	40.6	101.8	19,200	43.2	96.9	15,800	140
142	35.5	99.6	21,000	39.3	98.8	19,000	41.9	93.9	15,700	142
145	33.6	95.1	20,600	37.4	94.3	18,700				145
150	30.2	86.5	19,900	33.9	85.6	18,200				150
154	27.1	78.5	19,400	30.8	77.7	17,800				154
155	26.3	76.5	19,200							155
160	21.7	64.3	18,600							160
161	20.7	61.4	18,500							161



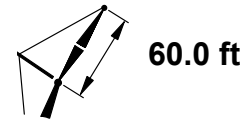
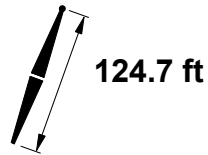
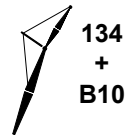
149,600 lb
+
60,400 lb

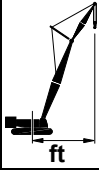
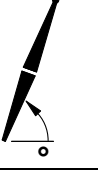
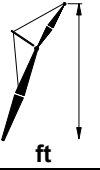
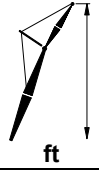
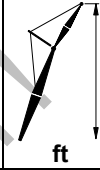


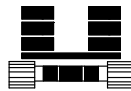
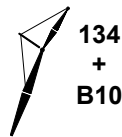
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
38	80.8	179.6	38,700							38
40	80.1	179.2	38,300							40
45	78.4	178.1	37,500							45
49	77.1	177.1	36,800	80.9	176.0	31,500				49
50	76.7	176.8	36,600	80.5	175.8	31,300				50
55	75.0	175.4	35,800	78.8	174.4	30,700				55
59	73.6	174.1	35,000	77.4	173.1	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	29,000	62.4	153.7	25,700	65.6	150.3	20,300	100
105	56.7	151.3	28,400	60.4	150.4	25,300	63.6	146.9	19,700	105
110	54.7	147.7	27,800	58.4	146.8	24,600	61.5	143.2	19,100	110
115	52.6	143.7	27,300	56.3	142.9	23,700	59.4	139.2	18,500	115
120	50.5	139.5	26,400	54.1	138.7	22,800	57.1	134.9	18,000	120
125	48.3	135.0	25,300	51.9	134.1	22,100	54.8	130.2	17,500	125
130	46.0	130.1	24,300	49.6	129.2	21,300	52.4	125.1	17,100	130
135	43.6	124.7	23,400	47.2	123.9	20,700	49.9	119.6	16,700	135
140	41.1	118.9	22,600	44.6	118.0	20,100	47.3	113.5	16,300	140
145	38.4	112.5	21,800	41.9	111.7	19,500	44.5	106.8	16,000	145
149	36.1	106.9	21,000	39.7	106.0	19,000	42.1	100.9	15,700	149
150	35.6	105.5	20,800	39.1	104.6	18,900				150
155	32.5	97.6	19,700	36.0	96.7	18,400				155
160	29.2	88.7	18,600	32.6	87.7	18,000				160
163	26.9	82.4	18,000	30.4	81.6	17,800				163
165	25.4	78.2	17,500							165
170	20.9	65.5	16,600							170

MLC200 S-2

ASME B30.5



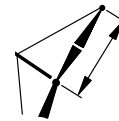
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 ft	 o	 ft	 lb	 o	 ft	 lb	 o	 ft	 lb	 ft
39	80.9	189.4	38,500							39
40	80.6	189.2	38,400							40
45	79.0	188.2	37,600							45
50	77.5	187.0	36,800							50
51	77.1	186.7	36,600	80.7	185.6	31,300				51
55	75.8	185.7	36,000	79.4	184.6	30,800				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	30,100	65.9	168.1	26,600	69.0	164.8	21,600	95
100	60.6	166.2	29,500	64.1	165.3	26,100	67.2	161.8	20,900	100
105	58.8	163.1	28,900	62.2	162.2	25,700	65.3	158.7	20,200	105
110	56.9	159.8	28,400	60.4	158.8	25,200	63.4	155.3	19,600	110
115	55.0	156.2	27,800	58.4	155.3	24,600	61.4	151.6	19,100	115
120	53.0	152.4	27,300	56.5	151.4	23,700	59.4	147.7	18,500	120
125	51.0	148.2	26,700	54.4	147.3	22,900	57.3	143.4	18,000	125
130	48.9	143.8	25,600	52.4	142.9	22,200	55.1	138.9	17,600	130
135	46.8	139.0	24,400	50.2	138.1	21,500	52.9	133.9	17,200	135
140	44.6	133.9	23,000	47.9	132.9	20,900	50.6	128.6	16,800	140
145	42.2	128.3	21,700	45.6	127.3	20,300	48.1	122.8	16,400	145
150	39.8	122.2	20,400	43.1	121.3	19,700	45.6	116.4	16,100	150
155	37.2	115.5	19,300	40.5	114.6	19,200	42.8	109.5	15,800	155
156	36.7	114.1	19,100	40.0	113.1	19,100	42.3	108.0	15,700	156
160	34.5	108.2	18,200	37.7	107.2	18,600				160
165	31.5	100.0	17,200	34.7	99.0	17,600				165
170	28.2	90.7	16,200	31.4	89.6	16,600				170
171	27.5	88.5	16,000	30.7	87.6	16,400				171
175	24.5	79.9	15,300							175
180	20.1	66.7	14,400							180



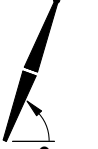
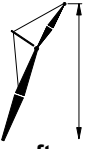
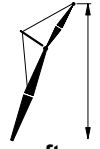
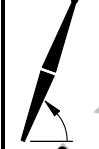
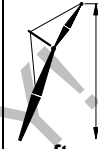
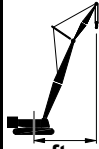
149,600 lb
+
60,400 lb

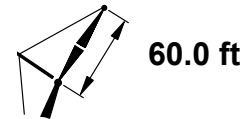
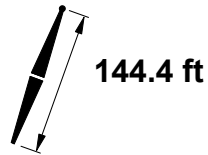
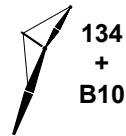


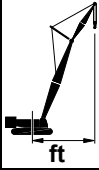
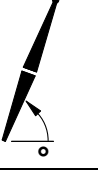
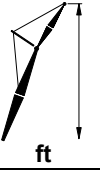
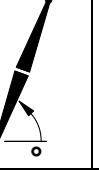
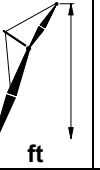
134.5 ft

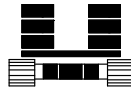
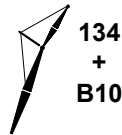


60.0 ft

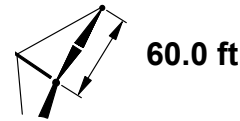
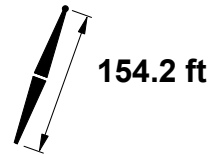
	5°			15°			25°			
										
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
41	80.8	199.0	38,300							41
45	79.6	198.2	37,700							45
50	78.1	197.1	36,900							50
52	77.5	196.6	36,600	80.9	195.5	31,300				52
55	76.6	195.9	36,200	80.0	194.7	30,900				55
60	75.1	194.5	35,500	78.4	193.3	30,400				60
62	74.4	193.8	35,200	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	30,600	67.2	179.3	26,900	70.2	175.9	22,100	95
100	62.2	177.6	30,000	65.5	176.6	26,400	68.5	173.1	21,400	100
105	60.5	174.7	29,400	63.8	173.7	26,000	66.7	170.2	20,800	105
110	58.8	171.6	28,900	62.1	170.6	25,600	65.0	167.0	20,100	110
115	57.0	168.3	28,300	60.3	167.3	25,200	63.1	163.6	19,600	115
120	55.2	164.7	27,800	58.5	163.8	24,600	61.3	160.0	19,000	120
125	53.4	160.9	27,200	56.6	160.0	23,800	59.4	156.1	18,500	125
130	51.5	156.9	25,500	54.7	155.9	23,100	57.4	152.0	18,100	130
135	49.5	152.5	23,900	52.8	151.6	22,300	55.4	147.5	17,600	135
140	47.5	147.9	22,500	50.7	146.9	21,700	53.3	142.7	17,200	140
145	45.4	142.9	21,200	48.6	141.9	21,000	51.1	137.5	16,900	145
150	43.3	137.5	19,900	46.4	136.5	20,500	48.9	132.0	16,500	150
155	41.0	131.7	18,800	44.2	130.7	19,300	46.5	125.9	16,200	155
160	38.6	125.3	17,700	41.8	124.3	18,200	44.0	119.3	15,900	160
164	36.6	119.8	16,900	39.7	118.8	17,400	41.9	113.5	15,700	164
165	36.1	118.4	16,700	39.2	117.4	17,100				165
170	33.4	110.8	15,700	36.5	109.8	16,100				170
175	30.5	102.3	14,800	33.6	101.2	15,200				175
180	27.3	92.7	13,900	30.3	91.5	14,300				180
185	23.7	81.5	13,100							185
189	20.3	70.8	12,500							189



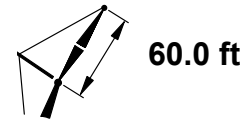
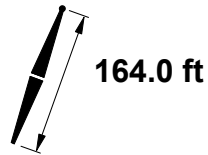
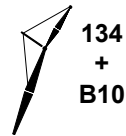
	5°			15°			25°			
										
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
42	81.0	208.9	38,100							42
45	80.1	208.3	37,700							45
50	78.7	207.2	37,000							50
54	77.5	206.3	36,400	80.8	205.1	31,200				54
55	77.2	206.0	36,300	80.5	204.8	31,100				55
60	75.8	204.7	35,600	79.0	203.5	30,500				60
64	74.6	203.5	35,100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

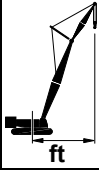
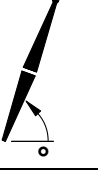
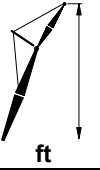
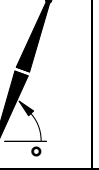
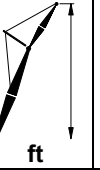


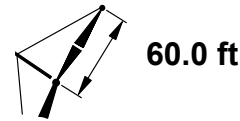
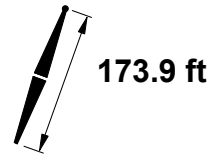
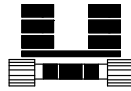
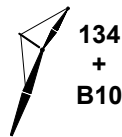
149,600 lb
+
60,400 lb



	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	31,900	71.0	203.4	27,800	73.7	200.0	23,700	90
95	66.5	202.2	31,300	69.5	201.1	27,500	72.2	197.7	23,000	95
100	65.0	199.8	30,700	68.0	198.7	27,000	70.7	195.3	22,300	100
105	63.5	197.3	30,200	66.5	196.2	26,700	69.2	192.7	21,600	105
110	62.0	194.6	29,700	65.0	193.5	26,300	67.6	189.9	21,100	110
115	60.4	191.7	29,200	63.4	190.6	25,900	66.0	186.9	20,500	115
120	58.9	188.6	28,200	61.8	187.5	25,500	64.4	183.8	19,900	120
125	57.3	185.3	26,400	60.2	184.2	25,100	62.8	180.5	19,500	125
130	55.6	181.8	24,700	58.6	180.7	24,600	61.1	176.9	19,000	130
135	54.0	178.1	23,100	56.9	177.0	23,900	59.4	173.1	18,500	135
140	52.3	174.1	21,700	55.2	173.1	22,500	57.6	169.1	18,100	140
145	50.5	170.0	20,400	53.4	168.9	21,100	55.8	164.8	17,700	145
150	48.7	165.5	19,100	51.6	164.5	19,900	54.0	160.2	17,400	150
155	46.9	160.7	18,000	49.8	159.7	18,700	52.1	155.3	17,000	155
160	45.0	155.7	16,900	47.9	154.6	17,500	50.1	150.1	16,700	160
165	43.0	150.2	15,900	45.9	149.2	16,500	48.0	144.4	16,400	165
170	40.9	144.4	14,900	43.8	143.3	15,500	45.9	138.4	15,900	170
175	38.8	138.1	14,000	41.6	137.0	14,500	43.6	131.8	14,900	175
179	37.0	132.7	13,300	39.8	131.6	13,800	41.7	126.2	14,100	179
180	36.5	131.3	13,200	39.4	130.2	13,600				180
185	34.1	123.9	12,400	36.9	122.8	12,800				185
190	31.6	115.7	11,600	34.3	114.6	12,000				190
195	28.8	106.7	10,900	31.5	105.4	11,200				195
197	27.6	102.5	10,600	30.3	101.4	10,900				197
200	25.7	96.4	10,200							200
205	22.3	84.4	9,500							205
208	19.9	76.0	9,100							208



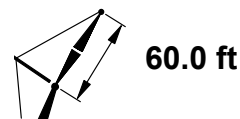
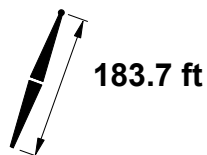
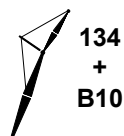
	5°			15°			25°			
										
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
45	81.0	228.3	37,600							45
50	79.7	227.3	37,000							50
55	78.4	226.3	36,400							55
57	77.9	225.8	36,100	80.8	224.6	30,900				57
60	77.1	225.1	35,700	80.0	223.8	30,600				60
65	75.7	223.7	35,200	78.7	222.5	30,200				65
67	75.2	223.1	34,900	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	32,200	71.9	214.0	28,000	74.5	210.6	24,100	90
95	67.6	213.0	31,600	70.5	211.9	27,700	73.1	208.4	23,400	95
100	66.2	210.8	31,000	69.1	209.6	27,300	71.7	206.1	22,700	100
105	64.8	208.3	30,500	67.6	207.2	26,900	70.2	203.7	22,100	105
110	63.3	205.8	30,000	66.2	204.7	26,500	68.7	201.1	21,400	110
115	61.9	203.0	29,500	64.7	201.9	26,200	67.2	198.3	20,900	115
120	60.4	200.1	27,800	63.2	199.0	25,800	65.7	195.3	20,300	120
125	58.9	197.0	25,900	61.7	196.0	25,400	64.2	192.2	19,900	125
130	57.4	193.8	24,300	60.2	192.7	25,100	62.6	188.9	19,400	130
135	55.8	190.3	22,700	58.6	189.2	23,600	61.0	185.3	19,000	135
140	54.2	186.6	21,300	57.0	185.6	22,200	59.4	181.6	18,500	140
145	52.6	182.8	19,900	55.4	181.7	20,800	57.7	177.6	18,100	145
150	50.9	178.6	18,700	53.7	177.6	19,500	56.0	173.4	17,800	150
155	49.2	174.3	17,500	52.0	173.2	18,300	54.3	168.9	17,400	155
160	47.5	169.6	16,500	50.3	168.5	17,200	52.4	164.1	17,100	160
165	45.7	164.7	15,400	48.5	163.6	16,100	50.6	159.0	16,600	165
170	43.8	159.4	14,500	46.6	158.3	15,100	48.6	153.6	15,600	170
175	41.9	153.7	13,600	44.6	152.6	14,200	46.6	147.7	14,600	175
180	39.9	147.7	12,800	42.6	146.6	13,300	44.5	141.4	13,700	180
185	37.8	141.2	12,000	40.5	140.1	12,400	42.3	134.7	12,800	185
186	37.3	139.8	11,800	40.0	138.6	12,300	41.9	133.2	12,600	186
190	35.6	134.2	11,200	38.3	133.0	11,600				190
195	33.2	126.5	10,500	35.9	125.3	10,900				195
200	30.7	118.1	9,800	33.4	116.8	10,200				200
205	28.0	108.7	9,100	30.6	107.4	9,500				205
210	25.0	98.1	8,500							210
215	21.6	85.7	7,900							215
217	20.1	80.1	7,700							217

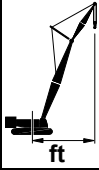
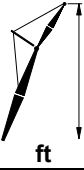
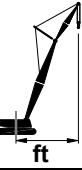


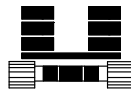
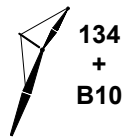
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
47	80.9	237.9	37,200							47
50	80.1	237.4	36,900							50
55	78.9	236.3	36,300							55
58	78.1	235.6	36,000	81.0	234.4	30,900				58
60	77.6	235.2	35,800	80.5	233.9	30,700				60
65	76.4	233.9	35,200	79.2	232.7	30,300				65
69	75.3	232.8	34,700	78.2	231.6	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	32,900	74.0	226.4	28,600	76.6	223.0	25,200	85
90	69.9	225.8	32,400	72.7	224.6	28,200	75.2	221.1	24,500	90
95	68.6	223.7	31,800	71.4	222.6	27,800	73.9	219.1	23,800	95
100	67.3	221.6	31,300	70.0	220.4	27,400	72.5	216.9	23,100	100
105	65.9	219.3	30,800	68.7	218.1	27,000	71.1	214.6	22,500	105
110	64.5	216.8	30,300	67.3	215.7	26,700	69.7	212.1	21,800	110
115	63.2	214.3	29,300	65.9	213.1	26,400	68.3	209.5	21,300	115
120	61.8	211.5	27,300	64.5	210.4	26,100	66.9	206.7	20,800	120
125	60.4	208.6	25,400	63.1	207.5	25,700	65.4	203.7	20,300	125
130	58.9	205.5	23,800	61.6	204.4	24,800	64.0	200.6	19,800	130
135	57.5	202.3	22,200	60.2	201.2	23,200	62.5	197.3	19,400	135
140	56.0	198.8	20,800	58.7	197.7	21,700	60.9	193.8	18,900	140
145	54.4	195.2	19,400	57.1	194.1	20,300	59.4	190.1	18,500	145
150	52.9	191.4	18,200	55.6	190.3	19,000	57.8	186.1	18,100	150
155	51.3	187.3	17,000	54.0	186.2	17,800	56.2	182.0	17,800	155
160	49.7	183.0	16,000	52.4	181.9	16,700	54.5	177.6	17,300	160
165	48.0	178.4	14,900	50.7	177.3	15,600	52.8	172.9	16,200	165
170	46.3	173.6	14,000	49.0	172.5	14,700	51.0	167.9	15,200	170
175	44.6	168.4	13,100	47.2	167.3	13,700	49.2	162.6	14,200	175
180	42.8	163.0	12,300	45.4	161.9	12,800	47.3	157.0	13,300	180
185	40.9	157.1	11,500	43.5	156.0	12,000	45.4	150.9	12,400	185
190	38.9	150.9	10,700	41.5	149.7	11,200	43.3	144.4	11,600	190
193	37.7	146.9	10,300	40.3	145.7	10,700	42.0	140.3	11,100	193
195	36.9	144.2	10,000	39.4	143.0	10,400				195
200	34.7	136.9	9,300	37.3	135.7	9,700				200
205	32.4	129.0	8,600	35.0	127.8	9,000				205
210	30.0	120.3	8,000	32.5	119.0	8,400				210
213	28.4	114.6	7,700	30.9	113.3	8,000				213
215	27.3	110.7	7,400							215
220	24.4	99.8	6,900							220
225	21.0	87.0	6,300							225
226	20.3	84.2	6,200							226

MLC200 S-2

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	33,100	74.7	236.9	28,700	77.2	233.4	25,600	85
90	70.8	236.3	32,500	73.4	235.1	28,300	75.9	231.6	24,900	90
95	69.5	234.4	32,000	72.2	233.2	27,900	74.6	229.6	24,100	95
100	68.2	232.3	31,500	70.9	231.1	27,500	73.3	227.6	23,500	100
105	67.0	230.1	31,000	69.6	228.9	27,200	72.0	225.4	22,800	105
110	65.7	227.8	30,500	68.3	226.6	26,900	70.7	223.0	22,300	110
115	64.3	225.3	29,000	67.0	224.2	26,600	69.3	220.5	21,700	115
120	63.0	222.7	26,900	65.6	221.6	26,200	68.0	217.9	21,100	120
125	61.7	220.0	25,100	64.3	218.8	25,900	66.6	215.1	20,600	125
130	60.3	217.1	23,400	62.9	215.9	24,500	65.2	212.1	20,200	130
135	58.9	214.0	21,900	61.5	212.9	22,900	63.8	209.0	19,800	135
140	57.5	210.8	20,400	60.1	209.6	21,400	62.3	205.7	19,300	140
145	56.1	207.3	19,100	58.7	206.2	20,000	60.9	202.2	18,900	145
150	54.7	203.7	17,900	57.2	202.6	18,700	59.4	198.5	18,600	150
155	53.2	199.9	16,700	55.8	198.8	17,500	57.9	194.7	18,200	155
160	51.7	195.9	15,600	54.2	194.8	16,400	56.3	190.6	17,100	160
165	50.1	191.7	14,600	52.7	190.6	15,400	54.7	186.2	16,000	165
170	48.6	187.2	13,700	51.1	186.1	14,400	53.1	181.6	14,900	170
175	46.9	182.5	12,800	49.5	181.3	13,400	51.4	176.8	13,900	175
180	45.3	177.5	11,900	47.8	176.3	12,500	49.7	171.6	13,000	180
185	43.6	172.1	11,100	46.1	171.0	11,700	47.9	166.1	12,200	185
190	41.8	166.5	10,400	44.3	165.3	10,900	46.1	160.3	11,300	190
195	39.9	160.5	9,700	42.4	159.3	10,200	44.2	154.0	10,500	195
200	38.0	154.0	9,000	40.5	152.8	9,500	42.2	147.3	9,800	200
201	37.6	152.6	8,800	40.1	151.4	9,300	41.7	145.9	9,600	201
205	36.0	147.1	8,300	38.5	145.9	8,800				205
210	33.9	139.6	7,700	36.3	138.3	8,100				210
215	31.6	131.5	7,100	34.1	130.2	7,500				215
220	29.2	122.5	6,600	31.6	121.2	6,900				220
222	28.2	118.6	6,300	30.6	117.3	6,700				222
225	26.6	112.6	6,000							225
230	23.7	101.4	5,500							230
235	20.4	88.3	5,000							235



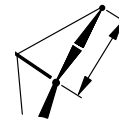
149,600 lb
+
60,400 lb



360°

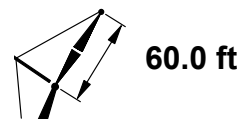
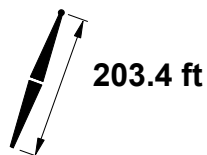
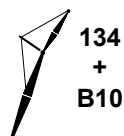


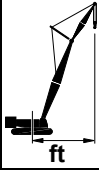
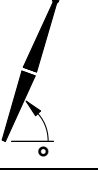
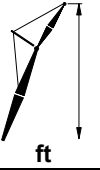
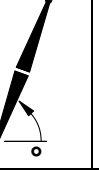
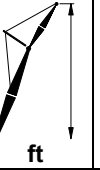
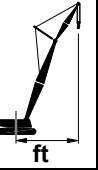
193.6 ft

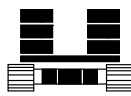


60.0 ft

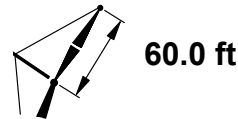
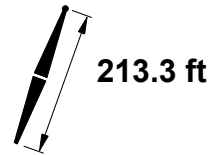
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
50	80.9	257.4	36,700							50
55	79.8	256.5	36,100							55
60	78.6	255.4	35,600							60
61	78.4	255.2	35,500	81.0	253.9	30,600				61
65	77.4	254.2	35,100	80.0	252.9	30,300				65
70	76.3	253.0	34,600	78.9	251.7	29,900				70
72	75.8	252.4	34,400	78.4	251.1	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	33,200	75.3	247.2	28,700	77.7	243.8	26,000	85
90	71.5	246.8	32,700	74.1	245.5	28,300	76.5	242.0	25,200	90
95	70.3	244.9	32,200	72.9	243.7	28,000	75.2	240.2	24,500	95
100	69.1	243.0	31,700	71.7	241.7	27,700	74.0	238.2	23,800	100
105	67.9	240.9	31,200	70.5	239.7	27,400	72.7	236.1	23,200	105
110	66.7	238.7	30,700	69.2	237.5	27,000	71.5	233.8	22,600	110
115	65.4	236.3	28,500	68.0	235.1	26,700	70.2	231.5	22,100	115
120	64.2	233.8	26,500	66.7	232.7	26,400	68.9	229.0	21,500	120
125	62.9	231.2	24,600	65.4	230.1	25,900	67.6	226.3	21,000	125
130	61.6	228.5	22,900	64.1	227.3	24,100	66.3	223.5	20,600	130
135	60.3	225.6	21,400	62.8	224.4	22,500	65.0	220.5	20,100	135
140	59.0	222.5	19,900	61.5	221.3	21,000	63.6	217.4	19,700	140
145	57.6	219.3	18,600	60.1	218.1	19,600	62.2	214.1	19,300	145
150	56.2	215.9	17,400	58.7	214.7	18,300	60.8	210.7	18,900	150
155	54.9	212.3	16,200	57.3	211.1	17,100	59.4	207.0	17,800	155
160	53.4	208.5	15,100	55.9	207.4	16,000	57.9	203.2	16,700	160
165	52.0	204.5	14,100	54.5	203.4	14,900	56.5	199.1	15,600	165
170	50.5	200.4	13,200	53.0	199.2	13,900	54.9	194.8	14,500	170
175	49.0	196.0	12,300	51.5	194.8	13,000	53.4	190.3	13,600	175
180	47.5	191.3	11,400	49.9	190.2	12,100	51.8	185.6	12,600	180
185	45.9	186.4	10,600	48.3	185.3	11,300	50.2	180.5	11,800	185
190	44.3	181.2	9,900	46.7	180.1	10,500	48.5	175.2	10,900	190
195	42.6	175.7	9,200	45.0	174.5	9,700	46.7	169.5	10,100	195
200	40.8	169.9	8,500	43.2	168.7	9,000	44.9	163.5	9,400	200
205	39.0	163.7	7,800	41.4	162.5	8,300	43.0	157.0	8,700	205
208	37.9	159.7	7,500	40.3	158.5	7,900	41.9	152.9	8,300	208
210	37.2	157.0	7,200	39.5	155.8	7,700				210
215	35.2	149.9	6,600	37.5	148.6	7,100				215
220	33.1	142.2	6,100	35.4	140.9	6,500				220
225	30.9	133.8	5,500	33.2	132.5	5,900				225
230	28.6	124.7	5,000	30.8	123.2	5,300				230
235	26.0	114.5	4,500							235
240	23.1	102.9	4,000							240

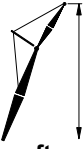
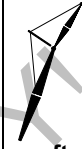


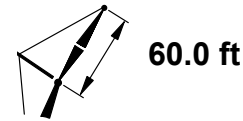
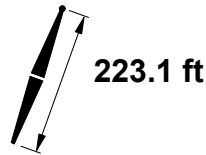
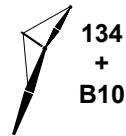
	5°			15°			25°			
										
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
52	80.8	267.0	36,200							52
55	80.2	266.5	36,000							55
60	79.0	265.5	35,400							60
63	78.4	264.8	35,200	80.9	263.5	30,400				63
65	77.9	264.3	35,000	80.4	263.0	30,200				65
70	76.8	263.1	34,500	79.3	261.8	29,800				70
73	76.1	262.3	34,300	78.6	261.0	29,600	80.9	257.6	27,000	73
75	75.7	261.8	34,100	78.2	260.5	29,500	80.5	257.0	26,900	75
80	74.5	260.4	33,600	77.0	259.1	29,100	79.3	255.6	26,700	80
85	73.4	258.8	33,100	75.9	257.6	28,800	78.2	254.1	26,200	85
90	72.3	257.2	32,700	74.7	255.9	28,400	77.0	252.4	25,500	90
95	71.1	255.4	32,200	73.6	254.2	28,100	75.8	250.6	24,800	95
100	69.9	253.5	31,800	72.4	252.3	27,800	74.6	248.7	24,200	100
105	68.8	251.5	31,300	71.2	250.3	27,500	73.5	246.7	23,600	105
110	67.6	249.4	30,300	70.0	248.2	27,100	72.2	244.6	22,900	110
115	66.4	247.2	28,100	68.8	246.0	26,800	71.0	242.3	22,400	115
120	65.2	244.8	26,000	67.6	243.6	26,600	69.8	239.9	21,900	120
125	64.0	242.3	24,200	66.4	241.1	25,500	68.6	237.4	21,300	125
130	62.8	239.7	22,500	65.2	238.5	23,700	67.3	234.7	20,900	130
135	61.5	236.9	20,900	63.9	235.8	22,100	66.0	231.9	20,400	135
140	60.3	234.0	19,500	62.7	232.8	20,600	64.7	229.0	20,000	140
145	59.0	231.0	18,200	61.4	229.8	19,200	63.4	225.8	19,600	145
150	57.7	227.8	16,900	60.1	226.6	17,900	62.1	222.6	18,800	150
155	56.4	224.4	15,800	58.8	223.2	16,700	60.8	219.1	17,500	155
160	55.0	220.8	14,700	57.4	219.6	15,600	59.4	215.5	16,300	160
165	53.7	217.1	13,700	56.1	215.9	14,500	58.0	211.7	15,200	165
170	52.3	213.2	12,700	54.7	212.0	13,500	56.6	207.7	14,200	170
175	50.9	209.0	11,800	53.2	207.9	12,600	55.1	203.5	13,200	175
180	49.4	204.7	11,000	51.8	203.5	11,700	53.7	199.0	12,300	180
185	48.0	200.1	10,200	50.3	199.0	10,900	52.1	194.4	11,400	185
190	46.5	195.3	9,400	48.8	194.1	10,100	50.6	189.4	10,600	190
195	44.9	190.3	8,700	47.2	189.1	9,300	49.0	184.2	9,800	195
200	43.3	184.9	8,100	45.6	183.7	8,600	47.3	178.7	9,000	200
205	41.7	179.2	7,400	44.0	178.0	7,900	45.6	172.8	8,300	205
210	40.0	173.2	6,800	42.3	172.0	7,300	43.8	166.6	7,600	210
215	38.2	166.8	6,200	40.5	165.6	6,700	42.0	159.9	7,000	215
220	36.4	160.0	5,600	38.6	158.7	6,100				220
225	34.4	152.6	5,100	36.7	151.3	5,500				225
230	32.4	144.7	4,600	34.6	143.4	5,000				230
235	30.2	136.1	4,100	32.4	134.7	4,400				235
239				30.6	127.2	4,000				239

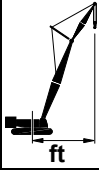
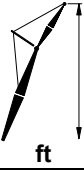
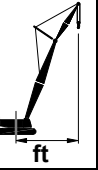


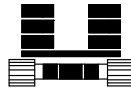
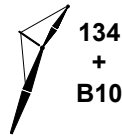
149,600 lb
+
60,400 lb



	5°			15°			25°			
										
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
53	80.9	276.9	35,900							53
55	80.5	276.5	35,700							55
60	79.4	275.5	35,300							60
64	78.6	274.7	34,900	81.0	273.3	30,200				64
65	78.4	274.4	34,800	80.8	273.1	30,200				65
70	77.3	273.3	34,400	79.7	271.9	29,800				70
75	76.2	272.0	33,900	78.6	270.7	29,500	80.9	267.2	26,900	75
80	75.1	270.6	33,500	77.5	269.3	29,100	79.7	265.8	26,600	80
85	74.0	269.1	33,100	76.4	267.8	28,800	78.6	264.3	26,400	85
90	72.9	267.6	32,700	75.3	266.3	28,400	77.5	262.7	25,900	90
95	71.8	265.9	32,200	74.2	264.6	28,100	76.4	261.0	25,200	95
100	70.7	264.1	31,900	73.1	262.8	27,800	75.2	259.2	24,500	100
105	69.6	262.1	31,400	72.0	260.9	27,500	74.1	257.3	23,900	105
110	68.5	260.1	29,800	70.8	258.9	27,200	72.9	255.2	23,300	110
115	67.3	258.0	27,600	69.7	256.7	26,900	71.8	253.1	22,800	115
120	66.2	255.7	25,600	68.5	254.5	26,700	70.6	250.8	22,200	120
125	65.0	253.3	23,700	67.3	252.1	25,100	69.4	248.4	21,800	125
130	63.8	250.8	22,000	66.2	249.6	23,300	68.2	245.8	21,300	130
135	62.6	248.2	20,500	65.0	247.0	21,700	67.0	243.1	20,800	135
140	61.4	245.4	19,000	63.8	244.2	20,200	65.8	240.3	20,400	140
145	60.2	242.5	17,700	62.5	241.3	18,800	64.5	237.4	19,700	145
150	59.0	239.4	16,400	61.3	238.3	17,500	63.3	234.3	18,400	150
155	57.7	236.2	15,300	60.1	235.0	16,300	62.0	231.0	17,100	155
160	56.5	232.9	14,200	58.8	231.7	15,100	60.7	227.6	15,900	160
165	55.2	229.3	13,200	57.5	228.2	14,100	59.4	224.0	14,800	165
170	53.9	225.6	12,200	56.2	224.5	13,100	58.1	220.2	13,800	170
175	52.6	221.8	11,300	54.9	220.6	12,100	56.7	216.2	12,800	175
180	51.2	217.7	10,500	53.5	216.5	11,300	55.3	212.1	11,900	180
185	49.8	213.4	9,700	52.1	212.2	10,400	53.9	207.7	11,000	185
190	48.4	208.9	8,900	50.7	207.7	9,600	52.4	203.1	10,200	190
195	47.0	204.2	8,200	49.2	203.0	8,900	51.0	198.3	9,400	195
200	45.5	199.2	7,500	47.7	198.0	8,200	49.4	193.2	8,600	200
205	44.0	194.0	6,900	46.2	192.8	7,500	47.9	187.8	7,900	205
210	42.4	188.5	6,300	44.6	187.2	6,800	46.2	182.1	7,200	210
215	40.8	182.6	5,700	43.0	181.4	6,200	44.6	176.1	6,600	215
220	39.1	176.4	5,100	41.3	175.2	5,600	42.8	169.6	6,000	220
223	38.1	172.5	4,800	40.3	171.2	5,300	41.8	165.6	5,600	223
225	37.4	169.9	4,600	39.6	168.6	5,100				225
230	35.6	162.8	4,100	37.8	161.5	4,500				230
235				35.9	154.0	4,000				235



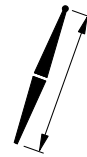
	5°			15°			25°			
 ft	 °	 ft	 lb	 °	 ft	 lb	 °	 ft	 lb	 ft
55	80.8	286.5	35,500							55
60	79.8	285.6	35,100							60
65	78.8	284.5	34,700							65
66	78.6	284.3	34,600	80.9	283.0	30,000				66
70	77.7	283.4	34,200	80.1	282.0	29,800				70
75	76.7	282.2	33,800	79.0	280.8	29,400				75
76	76.5	281.9	33,700	78.8	280.6	29,300	81.0	277.1	26,800	76
80	75.7	280.8	33,400	78.0	279.5	29,100	80.1	276.0	26,600	80
85	74.6	279.4	33,000	76.9	278.1	28,800	79.0	274.5	26,400	85
90	73.5	277.9	32,600	75.8	276.6	28,500	78.0	273.0	26,100	90
95	72.5	276.3	32,200	74.8	275.0	28,100	76.9	271.4	25,400	95
100	71.4	274.5	31,800	73.7	273.3	27,800	75.8	269.6	24,800	100
105	70.3	272.7	31,400	72.6	271.4	27,500	74.7	267.8	24,200	105
110	69.2	270.8	29,300	71.5	269.5	27,200	73.6	265.8	23,600	110
115	68.1	268.7	27,100	70.4	267.4	26,900	72.5	263.7	23,000	115
120	67.0	266.5	25,100	69.3	265.3	26,600	71.3	261.6	22,500	120
125	65.9	264.3	23,200	68.2	263.0	24,700	70.2	259.2	22,000	125
130	64.8	261.9	21,500	67.1	260.6	22,900	69.1	256.8	21,600	130
135	63.7	259.3	20,000	65.9	258.1	21,300	67.9	254.3	21,100	135
140	62.5	256.7	18,500	64.8	255.5	19,700	66.7	251.6	20,700	140
145	61.4	253.9	17,200	63.6	252.7	18,300	65.6	248.7	19,300	145
150	60.2	251.0	16,000	62.4	249.8	17,000	64.4	245.8	18,000	150
155	59.0	247.9	14,800	61.2	246.7	15,800	63.1	242.7	16,700	155
160	57.8	244.7	13,700	60.0	243.5	14,700	61.9	239.4	15,500	160
165	56.6	241.4	12,700	58.8	240.2	13,600	60.7	236.0	14,400	165
170	55.4	237.9	11,800	57.6	236.7	12,600	59.4	232.5	13,400	170
175	54.1	234.2	10,900	56.3	233.0	11,700	58.1	228.7	12,400	175
180	52.8	230.4	10,000	55.0	229.1	10,800	56.8	224.8	11,500	180
185	51.5	226.3	9,200	53.7	225.1	10,000	55.5	220.7	10,600	185
190	50.2	222.1	8,500	52.4	220.9	9,200	54.1	216.4	9,800	190
195	48.8	217.7	7,800	51.0	216.5	8,500	52.7	211.8	9,000	195
200	47.5	213.0	7,100	49.6	211.8	7,700	51.3	207.1	8,300	200
205	46.1	208.2	6,400	48.2	206.9	7,100	49.8	202.1	7,500	205
210	44.6	203.0	5,800	46.8	201.8	6,400	48.4	196.8	6,900	210
215	43.1	197.7	5,200	45.3	196.4	5,800	46.8	191.3	6,200	215
220	41.6	192.0	4,700	43.7	190.7	5,200	45.2	185.4	5,600	220
225	40.0	186.0	4,200	42.1	184.7	4,700	43.6	179.2	5,000	225
230				40.5	178.3	4,100	41.9	172.6	4,400	230



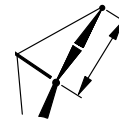
149,600 lb
+
60,400 lb



360°

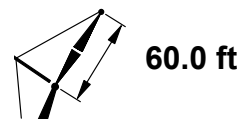
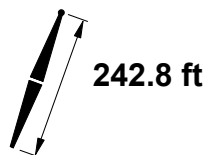
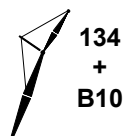


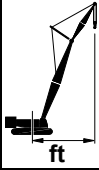
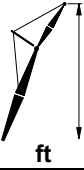
232.9 ft

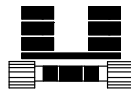
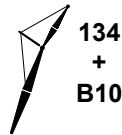


60.0 ft

	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
56	81.0	296.3	35,200							56
60	80.2	295.6	34,900							60
65	79.2	294.6	34,500							65
67	78.8	294.1	34,300	81.0	292.8	29,900				67
70	78.2	293.5	34,100	80.4	292.1	29,700				70
75	77.2	292.3	33,600	79.4	291.0	29,400				75
78	76.5	291.5	33,400	78.8	290.2	29,200	80.9	286.7	26,700	78
80	76.1	291.0	33,300	78.4	289.7	29,000	80.5	286.1	26,600	80
85	75.1	289.7	32,900	77.4	288.3	28,700	79.4	284.8	26,400	85
90	74.1	288.2	32,500	76.3	286.9	28,400	78.4	283.3	26,200	90
95	73.1	286.6	32,100	75.3	285.3	28,100	77.4	281.7	25,700	95
100	72.1	285.0	31,800	74.3	283.7	27,800	76.3	280.0	25,100	100
105	71.0	283.2	31,400	73.2	281.9	27,600	75.2	278.2	24,500	105
110	70.0	281.3	29,400	72.2	280.0	27,300	74.2	276.4	23,900	110
115	68.9	279.3	27,200	71.1	278.1	27,000	73.1	274.4	23,400	115
120	67.9	277.3	25,100	70.1	276.0	26,600	72.0	272.3	22,800	120
125	66.8	275.1	23,300	69.0	273.8	24,700	70.9	270.0	22,400	125
130	65.7	272.8	21,600	67.9	271.5	22,900	69.8	267.7	21,900	130
135	64.6	270.4	20,000	66.8	269.1	21,300	68.7	265.3	21,500	135
140	63.5	267.8	18,600	65.7	266.6	19,800	67.6	262.7	20,900	140
145	62.4	265.2	17,200	64.6	263.9	18,400	66.5	260.0	19,400	145
150	61.3	262.4	16,000	63.5	261.1	17,100	65.3	257.2	18,100	150
155	60.2	259.5	14,800	62.3	258.2	15,900	64.2	254.2	16,800	155
160	59.0	256.4	13,800	61.2	255.2	14,800	63.0	251.1	15,600	160
165	57.9	253.2	12,700	60.0	252.0	13,700	61.8	247.9	14,500	165
170	56.7	249.9	11,800	58.8	248.7	12,700	60.6	244.5	13,500	170
175	55.5	246.4	10,900	57.6	245.2	11,800	59.4	240.9	12,500	175
180	54.3	242.8	10,000	56.4	241.5	10,900	58.2	237.2	11,600	180
185	53.1	238.9	9,300	55.2	237.7	10,000	56.9	233.3	10,700	185
190	51.8	235.0	8,500	53.9	233.7	9,300	55.6	229.3	9,900	190
195	50.5	230.8	7,800	52.6	229.6	8,500	54.3	225.0	9,100	195
200	49.2	226.4	7,100	51.3	225.2	7,800	53.0	220.6	8,300	200
205	47.9	221.9	6,500	50.0	220.6	7,100	51.6	215.9	7,600	205
210	46.6	217.1	5,900	48.6	215.8	6,500	50.2	211.0	6,900	210
215	45.2	212.0	5,300	47.3	210.8	5,900	48.8	205.8	6,300	215
220	43.7	206.8	4,700	45.8	205.5	5,300	47.3	200.4	5,700	220
225	42.3	201.2	4,200	44.3	200.0	4,700	45.8	194.7	5,100	225
230				42.8	194.1	4,200	44.3	188.7	4,500	230
235							42.6	182.3	4,000	235



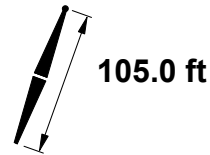
	5°			15°			25°			
 ft	 o	 ft	 lb	 o	 ft	 lb	 o	 ft	 lb	 ft
58	80.9	306.0	34,800							58
60	80.5	305.6	34,600							60
65	79.5	304.6	34,200							65
69	78.7	303.8	33,900	80.9	302.4	29,700				69
70	78.6	303.6	33,800	80.7	302.2	29,600				70
75	77.6	302.4	33,400	79.8	301.1	29,300				75
79	76.8	301.4	33,100	79.0	300.1	29,000	81.0	296.5	26,500	79
80	76.6	301.2	33,100	78.8	299.8	29,000	80.8	296.3	26,500	80
85	75.6	299.9	32,700	77.8	298.5	28,700	79.8	294.9	26,300	85
90	74.6	298.5	32,300	76.8	297.1	28,400	78.8	293.5	26,100	90
95	73.7	296.9	32,000	75.8	295.6	28,100	77.8	292.0	26,000	95
100	72.7	295.3	31,700	74.8	294.0	27,800	76.8	290.4	25,300	100
105	71.7	293.6	31,300	73.8	292.3	27,500	75.8	288.7	24,800	105
110	70.7	291.8	29,000	72.8	290.5	27,200	74.7	286.8	24,200	110
115	69.6	289.9	26,700	71.8	288.6	27,000	73.7	284.9	23,700	115
120	68.6	287.9	24,700	70.8	286.6	26,300	72.7	282.9	23,100	120
125	67.6	285.8	22,900	69.7	284.5	24,300	71.6	280.8	22,700	125
130	66.6	283.6	21,200	68.7	282.3	22,600	70.6	278.5	22,200	130
135	65.5	281.3	19,600	67.6	280.0	20,900	69.5	276.2	21,800	135
140	64.5	278.9	18,200	66.6	277.6	19,400	68.4	273.7	20,500	140
145	63.4	276.3	16,800	65.5	275.1	18,000	67.3	271.1	19,100	145
150	62.3	273.6	15,600	64.4	272.4	16,700	66.3	268.4	17,700	150
155	61.2	270.9	14,400	63.3	269.6	15,500	65.1	265.6	16,400	155
160	60.2	267.9	13,300	62.2	266.7	14,400	64.0	262.6	15,300	160
165	59.0	264.9	12,300	61.1	263.6	13,300	62.9	259.6	14,200	165
170	57.9	261.7	11,400	60.0	260.5	12,300	61.7	256.3	13,100	170
175	56.8	258.4	10,500	58.9	257.1	11,400	60.6	252.9	12,100	175
180	55.6	254.9	9,600	57.7	253.7	10,500	59.4	249.4	11,200	180
185	54.5	251.3	8,800	56.5	250.1	9,600	58.2	245.7	10,300	185
190	53.3	247.5	8,100	55.3	246.3	8,900	57.0	241.9	9,500	190
195	52.1	243.6	7,300	54.1	242.3	8,100	55.8	237.9	8,700	195
200	50.8	239.4	6,700	52.9	238.2	7,400	54.5	233.7	8,000	200
205	49.6	235.1	6,000	51.6	233.9	6,700	53.2	229.3	7,300	205
210	48.3	230.6	5,400	50.4	229.4	6,100	51.9	224.7	6,600	210
215	47.0	225.9	4,800	49.0	224.7	5,500	50.6	219.8	5,900	215
220	45.7	221.0	4,300	47.7	219.7	4,900	49.2	214.8	5,300	220
225				46.3	214.6	4,300	47.8	209.5	4,700	225
230							46.4	203.9	4,200	230



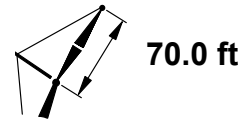
149,600 lb
+
60,400 lb



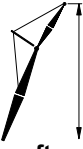
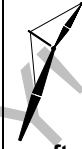
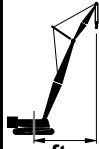
360°



105.0 ft

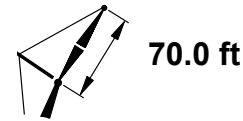
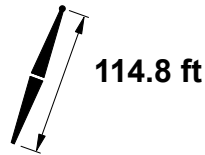
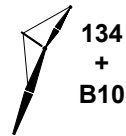


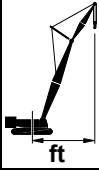
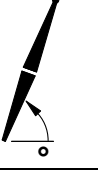
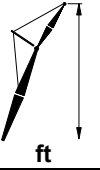
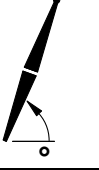
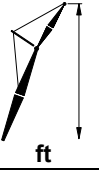
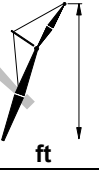
70.0 ft

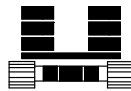
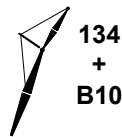
	5°			15°			25°			
 ft	 o	 ft	 lb	 o	 ft	 lb	 o	 ft	 lb	 ft
38	80.9	180.0	31,100							38
40	80.3	179.6	30,800							40
45	78.6	178.5	29,900							45
50	76.9	177.3	29,200	80.9	176.1	26,700				50
55	75.2	175.9	28,400	79.2	174.7	26,100				55
60	73.5	174.4	27,600	77.5	173.1	25,500				60
62	72.8	173.7	27,400	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	20,200	52.4	134.5	18,700	56.0	130.5	14,800	125
130	46.3	131.3	19,900	50.1	129.6	18,100	53.6	125.5	14,400	130
135	43.9	126.1	19,400	47.7	124.3	17,400	51.1	120.0	14,000	135
140	41.5	120.4	19,100	45.1	118.5	16,900	48.5	113.9	13,700	140
145	38.8	114.1	18,700	42.5	112.1	16,300	45.7	107.3	13,300	145
150	36.0	107.2	18,400	39.6	105.1	15,900	42.7	99.9	13,000	150
153	34.2	102.6	18,000	37.8	100.4	15,600	40.8	95.0	12,900	153
155	33.0	99.5	17,800	36.6	97.2	15,400				155
160	29.8	90.8	17,100	33.2	88.3	15,000				160
165	26.1	80.8	16,600	29.4	77.9	14,600				165
170	21.8	68.7	16,000							170
173	18.7	59.9	15,700							173

MLC200 S-2

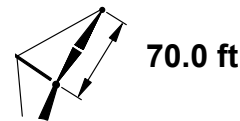
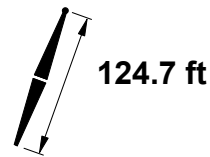
ASME B30.5



	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	21,300	56.9	151.8	20,100	60.4	148.0	15,800	120
125	51.3	149.3	20,800	54.9	147.7	19,500	58.4	143.7	15,300	125
130	49.2	144.9	20,300	52.8	143.2	18,800	56.2	139.2	14,900	130
135	47.1	140.2	19,900	50.7	138.5	18,200	54.0	134.3	14,500	135
140	44.9	135.1	19,600	48.4	133.3	17,600	51.7	129.0	14,100	140
145	42.6	129.6	19,200	46.1	127.8	17,100	49.2	123.2	13,800	145
150	40.2	123.7	18,900	43.6	121.7	16,600	46.7	116.9	13,400	150
155	37.6	117.2	18,500	41.0	115.1	16,000	44.0	109.9	13,200	155
160	34.9	110.0	18,100	38.3	107.7	15,600	41.1	102.2	12,900	160
165	32.0	102.0	17,500	35.3	99.6	15,300				165
170	28.8	93.0	16,900	32.0	90.3	14,900				170
173	26.6	86.7	16,500	29.8	84.0	14,700				173
175	25.2	82.5	16,200							175
180	21.0	70.0	15,300							180
182	19.1	64.0	15,000							182



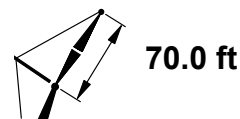
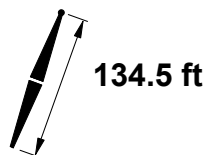
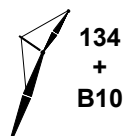
149,600 lb
+
60,400 lb

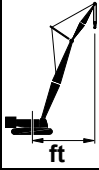
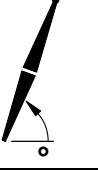
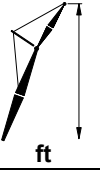
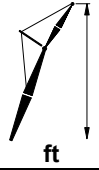
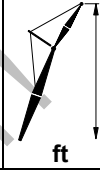


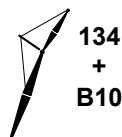
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
41	81.0	199.4	30,900							41
45	79.8	198.6	30,300							45
50	78.2	197.5	29,500							50
53	77.3	196.8	29,100	81.0	195.5	26,600				53
55	76.7	196.3	28,800	80.4	195.0	26,400				55
60	75.2	194.9	28,100	78.8	193.6	25,800				60
65	73.7	193.4	27,500	77.3	192.1	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	22,100	60.7	167.6	20,800	64.1	163.9	16,700	115
120	55.5	165.7	21,700	58.9	164.1	20,500	62.3	160.3	16,200	120
125	53.6	161.9	21,300	57.1	160.3	20,200	60.4	156.4	15,700	125
130	51.7	157.9	20,800	55.1	156.3	19,600	58.4	152.3	15,300	130
135	49.8	153.6	20,400	53.2	151.9	19,000	56.4	147.8	14,900	135
140	47.8	149.0	20,000	51.2	147.3	18,400	54.3	143.0	14,500	140
145	45.7	144.1	19,700	49.1	142.3	17,800	52.2	137.9	14,200	145
150	43.6	138.8	19,300	46.9	136.9	17,200	49.9	132.3	13,800	150
155	41.3	133.1	19,000	44.6	131.1	16,700	47.5	126.3	13,500	155
160	39.0	126.9	18,600	42.2	124.8	16,300	45.1	119.7	13,300	160
165	36.5	120.1	17,600	39.7	117.9	15,900	42.4	112.4	13,000	165
168	34.9	115.6	17,100	38.1	113.3	15,600	40.7	107.7	12,900	168
170	33.9	112.7	16,700	37.0	110.3	15,500				170
175	31.0	104.4	15,800	34.1	101.8	15,100				175
180	27.9	95.0	14,900	30.9	92.2	14,800				180
182	26.5	90.7	14,600	29.5	87.9	14,600				182
185	24.4	84.2	14,100							185
190	20.3	71.2	13,300							190
191	19.4	68.2	13,200							191

MLC200 S-2

ASME B30.5



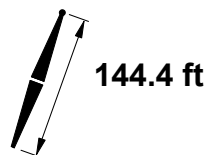
	5°			15°			25°			
										
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
43	80.8	209.1	30,600							43
45	80.3	208.7	30,400							45
50	78.8	207.6	29,700							50
55	77.4	206.5	29,000	80.8	205.1	26,400				55
60	75.9	205.2	28,400	79.4	203.8	25,900				60
65	74.5	203.7	27,700	77.9	202.4	25,500				65
67	73.9	203.1	27,500	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	22,600	62.3	179.4	21,100	65.6	175.6	17,100	115
120	57.4	177.7	22,100	60.7	176.1	20,800	63.9	172.3	16,600	120
125	55.7	174.2	21,700	58.9	172.6	20,400	62.1	168.7	16,200	125
130	53.9	170.5	21,200	57.2	168.9	20,200	60.3	164.9	15,700	130
135	52.1	166.5	20,900	55.4	164.9	19,600	58.5	160.8	15,300	135
140	50.3	162.3	20,500	53.5	160.6	19,000	56.6	156.4	14,900	140
145	48.4	157.9	20,100	51.6	156.1	18,500	54.6	151.7	14,600	145
150	46.5	153.1	19,800	49.7	151.2	17,900	52.6	146.7	14,200	150
155	44.5	147.9	19,200	47.6	146.0	17,400	50.5	141.3	13,900	155
160	42.4	142.4	18,100	45.5	140.4	16,900	48.3	135.5	13,600	160
165	40.2	136.4	17,100	43.3	134.4	16,500	46.0	129.2	13,400	165
170	37.9	130.0	16,200	41.0	127.8	16,000	43.6	122.4	13,100	170
175	35.5	122.9	15,300	38.5	120.6	15,700	41.0	114.9	12,900	175
180	32.9	115.2	14,400	35.9	112.7	14,800				180
185	30.1	106.7	13,600	33.0	103.9	14,000				185
190	27.1	97.0	12,900	29.9	94.0	13,100				190
191	26.4	94.7	12,700	29.2	91.8	13,000				191
195	23.6	85.8	12,100							195
200	19.6	72.3	11,400							200



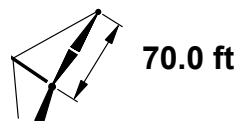
149,600 lb
+
60,400 lb



360°

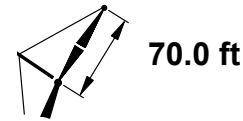
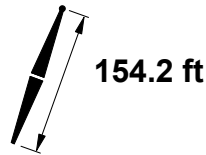
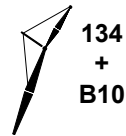


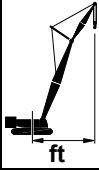
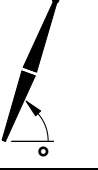
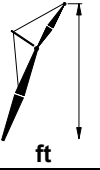
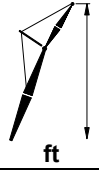
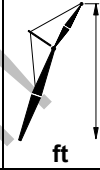
144.4 ft

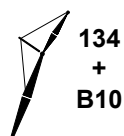


70.0 ft

	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	23,400	65.3	193.8	21,800	68.5	190.1	18,100	110
115	60.6	192.4	22,900	63.8	190.9	21,500	66.9	187.1	17,500	115
120	59.1	189.4	22,400	62.2	187.8	21,100	65.3	184.0	17,000	120
125	57.5	186.2	22,100	60.6	184.6	20,800	63.7	180.7	16,600	125
130	55.8	182.7	21,700	59.0	181.1	20,500	62.0	177.1	16,100	130
135	54.2	179.0	21,300	57.3	177.4	20,100	60.3	173.3	15,700	135
140	52.5	175.2	20,900	55.6	173.5	19,700	58.5	169.3	15,300	140
145	50.7	171.0	20,500	53.8	169.3	19,100	56.7	165.0	15,000	145
150	49.0	166.6	20,000	52.0	164.8	18,500	54.9	160.4	14,600	150
155	47.1	161.9	18,900	50.2	160.1	18,100	53.0	155.5	14,300	155
160	45.2	156.9	17,800	48.3	155.0	17,600	51.0	150.3	14,000	160
165	43.3	151.6	16,800	46.3	149.6	17,100	48.9	144.7	13,700	165
170	41.2	145.8	15,900	44.2	143.8	16,400	46.8	138.7	13,500	170
175	39.1	139.7	15,000	42.0	137.5	15,400	44.6	132.1	13,200	175
180	36.9	133.0	14,100	39.8	130.7	14,600	42.2	125.0	13,000	180
183	35.5	128.6	13,600	38.3	126.2	14,100	40.7	120.4	12,900	183
185	34.5	125.7	13,300	37.4	123.3	13,700				185
190	32.0	117.7	12,600	34.8	115.1	12,900				190
195	29.3	108.9	11,800	32.0	106.0	12,200				195
199	26.9	100.9	11,300	29.6	97.9	11,600				199
200	26.3	98.9	11,200							200
205	22.9	87.3	10,500							205
210	19.0	73.4	9,900							210



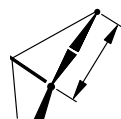
	5°			15°			25°			
 ft	 o	 ft	 lb	 o	 ft	 lb	 o	 ft	 lb	 ft
46	80.9	228.5	30,100							46
50	79.8	227.7	29,900							50
55	78.5	226.7	29,300							55
58	77.7	226.0	28,900	80.9	224.6	26,300				58
60	77.2	225.5	28,700	80.3	224.1	26,100				60
65	75.9	224.2	28,100	79.0	222.8	25,700				65
70	74.5	222.8	27,500	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	23,700	66.5	205.0	22,100	69.6	201.2	18,400	110
115	62.0	203.8	23,200	65.1	202.2	21,700	68.1	198.5	17,900	115
120	60.6	200.9	22,900	63.6	199.3	21,300	66.6	195.5	17,400	120
125	59.1	197.9	22,400	62.1	196.3	21,100	65.0	192.4	17,000	125
130	57.5	194.6	22,000	60.6	193.0	20,800	63.5	189.0	16,500	130
135	56.0	191.2	21,600	59.0	189.6	20,400	61.9	185.5	16,100	135
140	54.4	187.6	21,300	57.4	185.9	20,200	60.2	181.8	15,700	140
145	52.8	183.8	20,800	55.8	182.0	19,700	58.6	177.8	15,300	145
150	51.2	179.7	19,500	54.1	177.9	19,200	56.9	173.6	15,000	150
155	49.5	175.4	18,400	52.4	173.5	18,600	55.1	169.1	14,700	155
160	47.7	170.8	17,300	50.6	168.9	18,000	53.3	164.3	14,400	160
165	45.9	165.9	16,300	48.8	164.0	16,900	51.5	159.2	14,100	165
170	44.1	160.7	15,400	47.0	158.7	15,900	49.5	153.8	13,800	170
175	42.2	155.1	14,500	45.0	153.1	15,000	47.5	148.0	13,500	175
180	40.2	149.2	13,600	43.0	147.0	14,100	45.4	141.7	13,300	180
185	38.1	142.8	12,800	40.9	140.5	13,300	43.2	134.9	13,100	185
190	36.0	135.9	12,100	38.7	133.5	12,500	40.9	127.5	12,800	190
195	33.6	128.4	11,300	36.3	125.8	11,700				195
200	31.2	120.1	10,700	33.8	117.4	11,000				200
205	28.5	111.0	10,000	31.1	108.0	10,300				205
208	26.8	104.8	9,600	29.3	101.8	9,900				208
210	25.6	100.7	9,400							210
215	22.3	88.8	8,800							215
219	19.2	77.5	8,300							219



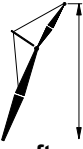
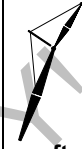
149,600 lb
+
60,400 lb

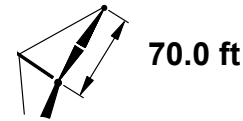
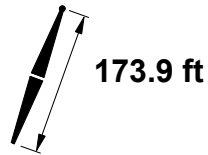
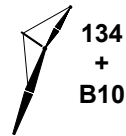


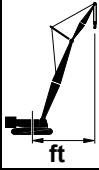
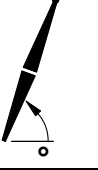
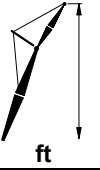
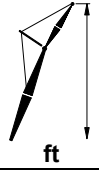
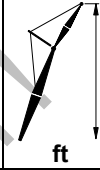
164.0 ft

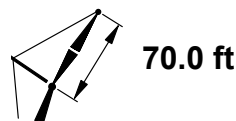
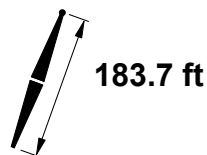
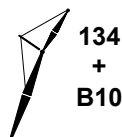


70.0 ft

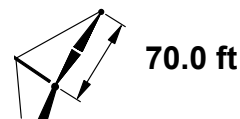
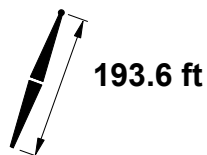
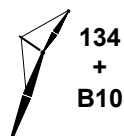
	5°			15°			25°			
										
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
47	81.0	238.3	29,800							47
50	80.3	237.8	29,700							50
55	79.0	236.8	29,400							55
59	78.0	235.8	28,900	81.0	234.4	26,200				59
60	77.7	235.6	28,800	80.8	234.2	26,100				60
65	76.5	234.4	28,200	79.5	233.0	25,700				65
70	75.2	233.0	27,700	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	24,400	69.0	218.4	22,700	72.0	214.7	19,300	105
110	64.7	217.5	23,900	67.6	216.0	22,300	70.6	212.2	18,800	110
115	63.3	215.0	23,500	66.2	213.4	22,000	69.1	209.6	18,300	115
120	61.9	212.3	23,100	64.8	210.7	21,700	67.7	206.8	17,800	120
125	60.5	209.4	22,700	63.4	207.8	21,300	66.3	203.9	17,300	125
130	59.1	206.4	22,300	62.0	204.7	21,000	64.8	200.8	16,800	130
135	57.6	203.1	22,000	60.5	201.5	20,700	63.3	197.4	16,500	135
140	56.2	199.7	21,600	59.0	198.0	20,400	61.8	193.9	16,000	140
145	54.6	196.1	20,300	57.5	194.4	20,200	60.2	190.2	15,700	145
150	53.1	192.3	19,100	55.9	190.6	19,800	58.6	186.3	15,400	150
155	51.5	188.3	18,000	54.3	186.5	18,700	57.0	182.1	15,000	155
160	49.9	184.1	16,900	52.7	182.2	17,600	55.3	177.7	14,700	160
165	48.3	179.6	15,900	51.1	177.7	16,600	53.6	173.1	14,400	165
170	46.6	174.8	14,900	49.3	172.8	15,600	51.9	168.1	14,100	170
175	44.8	169.7	14,000	47.6	167.7	14,600	50.0	162.8	13,900	175
180	43.0	164.3	13,200	45.8	162.3	13,700	48.2	157.2	13,600	180
185	41.2	158.6	12,400	43.9	156.4	12,900	46.2	151.1	13,400	185
190	39.2	152.4	11,600	41.9	150.2	12,100	44.1	144.6	12,500	190
195	37.2	145.8	10,900	39.8	143.5	11,400	42.0	137.6	11,700	195
198	35.9	141.5	10,500	38.5	139.1	10,900	40.6	133.1	11,300	198
200	35.1	138.7	10,200	37.7	136.2	10,600				200
205	32.8	130.9	9,600	35.4	128.3	10,000				205
210	30.4	122.4	9,000	32.9	119.6	9,300				210
215	27.8	113.0	8,400	30.2	109.9	8,700				215
216	27.2	110.9	8,300	29.6	107.8	8,500				216
220	24.9	102.4	7,800							220
225	21.7	90.2	7,300							225
228	19.5	81.7	6,900							228

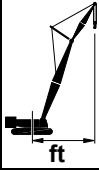
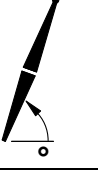
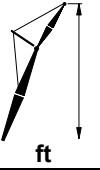
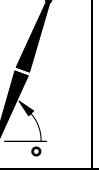
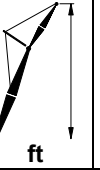


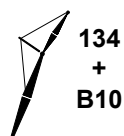
	5°			15°			25°			
										
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
49	80.9	248.0	29,500							49
50	80.7	247.8	29,400							50
55	79.5	246.8	29,300							55
60	78.3	245.7	28,800							60
61	78.0	245.5	28,700	80.9	244.1	26,100				61
65	77.0	244.5	28,300	79.9	243.1	25,700				65
70	75.8	243.2	27,800	78.7	241.8	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	24,600	69.9	229.2	22,800	72.8	225.5	19,700	105
110	65.8	228.5	24,200	68.6	226.9	22,500	71.4	223.1	19,100	110
115	64.5	226.0	23,800	67.3	224.5	22,200	70.1	220.7	18,600	115
120	63.2	223.5	23,400	66.0	221.9	21,800	68.7	218.0	18,100	120
125	61.8	220.7	23,000	64.6	219.1	21,500	67.4	215.2	17,600	125
130	60.5	217.9	22,600	63.3	216.2	21,200	66.0	212.3	17,200	130
135	59.1	214.8	22,200	61.9	213.2	21,000	64.6	209.1	16,800	135
140	57.7	211.6	21,200	60.5	209.9	20,700	63.1	205.8	16,400	140
145	56.3	208.2	19,800	59.0	206.5	20,400	61.7	202.4	16,100	145
150	54.8	204.7	18,600	57.6	202.9	19,500	60.2	198.7	15,700	150
155	53.4	200.9	17,500	56.1	199.1	18,300	58.7	194.8	15,400	155
160	51.9	196.9	16,400	54.6	195.1	17,200	57.1	190.7	15,000	160
165	50.3	192.8	15,400	53.0	190.9	16,100	55.5	186.4	14,700	165
170	48.8	188.3	14,400	51.4	186.4	15,100	53.9	181.8	14,400	170
175	47.2	183.7	13,500	49.8	181.7	14,200	52.2	176.9	14,200	175
180	45.5	178.7	12,700	48.1	176.7	13,300	50.5	171.8	13,900	180
185	43.8	173.5	11,900	46.4	171.4	12,500	48.7	166.3	13,000	185
190	42.0	167.9	11,100	44.6	165.7	11,700	46.9	160.4	12,100	190
195	40.2	161.9	10,400	42.8	159.7	10,900	45.0	154.2	11,400	195
200	38.3	155.6	9,700	40.9	153.2	10,200	43.0	147.5	10,600	200
205	36.3	148.8	9,100	38.8	146.3	9,500	40.9	140.3	9,900	205
210	34.2	141.4	8,500	36.7	138.8	8,900				210
215	32.0	133.4	7,900	34.4	130.7	8,200				215
220	29.7	124.7	7,300	32.0	121.7	7,600				220
225	27.1	115.0	6,800	29.4	111.8	7,100				225
230	24.3	104.1	6,300							230
235	21.1	91.5	5,800							235
238	18.9	82.8	5,500							238



	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	25,200	72.0	242.0	23,300	74.7	238.3	20,600	100
105	68.0	241.5	24,800	70.8	239.9	23,000	73.5	236.2	20,000	105
110	66.8	239.3	24,400	69.5	237.7	22,600	72.2	233.9	19,400	110
115	65.6	237.0	24,000	68.3	235.4	22,400	71.0	231.6	18,900	115
120	64.3	234.5	23,600	67.0	232.9	22,000	69.7	229.1	18,400	120
125	63.0	232.0	23,200	65.7	230.3	21,700	68.4	226.4	18,000	125
130	61.7	229.2	22,900	64.4	227.6	21,400	67.0	223.6	17,500	130
135	60.4	226.3	22,300	63.1	224.7	21,100	65.7	220.7	17,200	135
140	59.1	223.3	20,800	61.8	221.6	20,900	64.4	217.5	16,700	140
145	57.8	220.1	19,500	60.4	218.4	20,500	63.0	214.3	16,300	145
150	56.4	216.8	18,300	59.0	215.0	19,200	61.6	210.8	16,000	150
155	55.0	213.2	17,100	57.7	211.4	18,000	60.1	207.1	15,600	155
160	53.6	209.5	16,000	56.2	207.7	16,900	58.7	203.3	15,400	160
165	52.2	205.6	15,000	54.8	203.7	15,800	57.2	199.3	15,000	165
170	50.7	201.4	14,100	53.3	199.6	14,800	55.7	195.0	14,800	170
175	49.2	197.1	13,200	51.8	195.2	13,900	54.1	190.5	14,500	175
180	47.7	192.5	12,300	50.2	190.5	13,000	52.6	185.7	13,600	180
185	46.1	187.6	11,500	48.7	185.6	12,200	50.9	180.7	12,700	185
190	44.5	182.5	10,800	47.0	180.4	11,400	49.2	175.3	11,900	190
195	42.8	177.1	10,100	45.3	174.9	10,600	47.5	169.7	11,100	195
200	41.1	171.3	9,400	43.6	169.1	9,900	45.7	163.6	10,400	200
205	39.3	165.2	8,800	41.8	162.9	9,200	43.8	157.2	9,600	205
210	37.5	158.6	8,100	39.9	156.2	8,600	41.8	150.3	8,900	210
213	36.3	154.4	7,800	38.7	151.9	8,200	40.6	145.9	8,500	213
215	35.5	151.6	7,600	37.9	149.1	8,000				215
220	33.5	144.1	7,000	35.8	141.4	7,400				220
225	31.3	135.9	6,500	33.6	133.0	6,800				225
230	29.0	126.9	5,900	31.2	123.8	6,200				230
234	27.0	118.9	5,500	29.2	115.7	5,800				234
235	26.5	116.9	5,400							235
240	23.7	105.7	5,000							240
245	20.6	92.8	4,500							245
247	19.2	86.9	4,300							247



	5°			15°			25°			
 ft	 °	 ft	 lb	 °	 ft	 lb	 °	 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	25,300	72.7	252.6	23,400	75.4	248.8	20,900	100
105	68.9	252.1	24,900	71.5	250.6	23,100	74.2	246.8	20,300	105
110	67.7	250.1	24,600	70.3	248.5	22,800	73.0	244.7	19,800	110
115	66.5	247.8	24,200	69.1	246.3	22,400	71.7	242.4	19,300	115
120	65.3	245.5	23,800	67.9	243.9	22,200	70.5	240.0	18,700	120
125	64.1	243.0	23,500	66.7	241.4	21,900	69.3	237.5	18,300	125
130	62.9	240.4	23,100	65.5	238.8	21,600	68.0	234.8	17,900	130
135	61.7	237.7	21,800	64.2	236.0	21,400	66.7	232.0	17,500	135
140	60.4	234.8	20,300	63.0	233.1	21,000	65.5	229.1	17,100	140
145	59.1	231.8	19,000	61.7	230.1	20,000	64.2	225.9	16,700	145
150	57.8	228.6	17,800	60.4	226.9	18,700	62.8	222.7	16,300	150
155	56.5	225.3	16,600	59.1	223.5	17,500	61.5	219.2	16,000	155
160	55.2	221.7	15,500	57.7	220.0	16,400	60.1	215.6	15,700	160
165	53.9	218.0	14,500	56.4	216.2	15,400	58.7	211.8	15,400	165
170	52.5	214.2	13,600	55.0	212.3	14,400	57.3	207.8	15,100	170
175	51.1	210.1	12,700	53.6	208.2	13,400	55.9	203.6	14,100	175
180	49.6	205.8	11,800	52.1	203.9	12,500	54.4	199.2	13,200	180
185	48.2	201.3	11,000	50.6	199.3	11,700	52.9	194.5	12,300	185
190	46.7	196.5	10,300	49.1	194.5	10,900	51.3	189.5	11,500	190
195	45.1	191.5	9,600	47.6	189.4	10,200	49.7	184.3	10,700	195
200	43.6	186.2	8,900	46.0	184.1	9,500	48.1	178.8	10,000	200
205	41.9	180.6	8,300	44.3	178.4	8,800	46.3	173.0	9,200	205
210	40.2	174.7	7,600	42.6	172.4	8,100	44.6	166.7	8,600	210
215	38.5	168.4	7,100	40.8	166.0	7,500	42.7	160.1	7,900	215
220	36.7	161.6	6,500	39.0	159.1	6,900	40.8	153.0	7,300	220
225	34.7	154.4	6,000	37.0	151.8	6,300				225
230	32.7	146.6	5,500	35.0	143.9	5,800				230
235	30.6	138.2	5,000	32.8	135.3	5,300				235
240	28.3	129.0	4,500	30.5	125.8	4,800				240
242	27.3	124.9	4,300	29.5	121.7	4,600				242
245	25.9	118.8	4,000							245



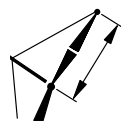
149,600 lb
+
60,400 lb



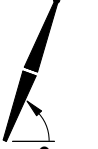
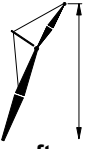
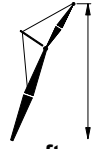
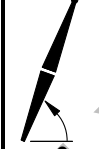
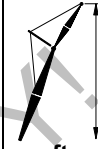
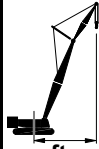
360°

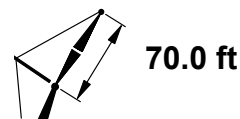
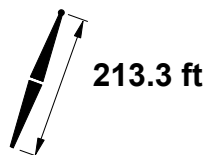
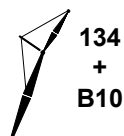


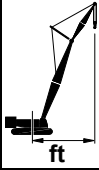
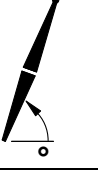
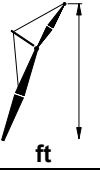
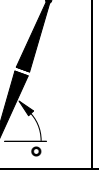
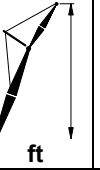
203.4 ft

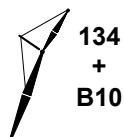


70.0 ft

	5°			15°			25°			
										
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
53	81.0	277.2	28,400							53
55	80.6	276.9	28,400							55
60	79.5	275.9	28,200							60
65	78.5	274.9	28,000							65
66	78.2	274.6	28,000	80.8	273.1	25,700				66
70	77.4	273.7	27,800	80.0	272.2	25,400				70
75	76.3	272.5	27,500	78.9	270.9	25,000				75
78	75.7	271.6	27,200	78.2	270.1	24,800	80.9	266.5	22,600	78
80	75.2	271.1	27,000	77.8	269.6	24,700	80.4	265.9	22,500	80
85	74.1	269.6	26,600	76.7	268.1	24,400	79.3	264.4	22,300	85
90	73.0	268.1	26,200	75.6	266.5	24,100	78.2	262.8	22,000	90
95	71.9	266.4	25,800	74.5	264.9	23,800	77.1	261.1	21,700	95
100	70.8	264.6	25,400	73.4	263.1	23,500	75.9	259.3	21,200	100
105	69.7	262.7	25,000	72.2	261.2	23,200	74.8	257.4	20,600	105
110	68.6	260.7	24,600	71.1	259.2	22,900	73.6	255.3	20,000	110
115	67.4	258.6	24,300	69.9	257.0	22,600	72.5	253.1	19,500	115
120	66.3	256.4	23,900	68.8	254.8	22,300	71.3	250.9	19,100	120
125	65.1	254.0	23,600	67.6	252.4	22,000	70.1	248.4	18,600	125
130	64.0	251.5	22,900	66.4	249.9	21,700	68.9	245.9	18,100	130
135	62.8	248.9	21,300	65.3	247.3	21,500	67.7	243.2	17,800	135
140	61.6	246.2	19,900	64.1	244.5	21,100	66.5	240.4	17,400	140
145	60.4	243.3	18,600	62.8	241.6	19,700	65.2	237.5	17,000	145
150	59.1	240.3	17,300	61.6	238.5	18,400	64.0	234.4	16,600	150
155	57.9	237.1	16,200	60.3	235.3	17,200	62.7	231.1	16,300	155
160	56.6	233.8	15,100	59.1	232.0	16,000	61.4	227.7	15,900	160
165	55.4	230.3	14,100	57.8	228.5	15,000	60.1	224.1	15,600	165
170	54.1	226.6	13,100	56.5	224.8	14,000	58.8	220.3	14,800	170
175	52.7	222.8	12,200	55.1	220.9	13,000	57.4	216.3	13,800	175
180	51.4	218.7	11,400	53.8	216.8	12,100	56.0	212.2	12,900	180
185	50.0	214.5	10,600	52.4	212.6	11,300	54.6	207.8	12,000	185
190	48.6	210.1	9,800	51.0	208.1	10,500	53.1	203.2	11,200	190
195	47.2	205.4	9,100	49.5	203.3	9,800	51.7	198.4	10,400	195
200	45.7	200.5	8,500	48.1	198.4	9,100	50.1	193.3	9,600	200
205	44.2	195.3	7,800	46.5	193.1	8,400	48.6	187.9	8,900	205
210	42.7	189.8	7,200	45.0	187.6	7,700	46.9	182.2	8,200	210
215	41.1	184.1	6,600	43.3	181.8	7,100	45.3	176.2	7,600	215
220	39.4	177.9	6,100	41.7	175.6	6,500	43.5	169.8	6,900	220
225	37.7	171.5	5,500	39.9	169.0	6,000	41.7	162.9	6,300	225
228	36.6	167.3	5,200	38.8	164.8	5,600	40.6	158.6	6,000	228
230	35.9	164.5	5,000	38.1	162.0	5,400				230
235	34.0	157.1	4,500	36.2	154.4	4,900				235
240	32.0	149.1	4,100	34.2	146.3	4,400				240



	5°			15°			25°			
 ft	 o	 ft	 lb	 o	 ft	 lb	 o	 ft	 lb	 ft
55	80.9	286.9	28,800							55
60	79.9	286.0	27,900							60
65	78.9	284.9	27,700							65
67	78.5	284.5	27,600	81.0	283.0	25,600				67
70	77.8	283.8	27,500	80.3	282.3	25,300				70
75	76.8	282.6	27,200	79.3	281.1	25,100				75
79	76.0	281.6	27,000	78.4	280.0	24,800	81.0	276.3	22,500	79
80	75.8	281.3	27,000	78.2	279.8	24,700	80.8	276.0	22,500	80
85	74.7	279.9	26,600	77.2	278.4	24,400	79.7	274.6	22,300	85
90	73.6	278.4	26,200	76.1	276.8	24,100	78.6	273.1	22,100	90
95	72.6	276.8	25,800	75.0	275.2	23,900	77.5	271.4	21,800	95
100	71.5	275.1	25,500	74.0	273.5	23,500	76.5	269.7	21,400	100
105	70.4	273.3	25,100	72.9	271.7	23,200	75.4	267.8	20,900	105
110	69.4	271.3	24,700	71.8	269.8	22,900	74.2	265.9	20,300	110
115	68.3	269.3	24,400	70.7	267.7	22,700	73.1	263.8	19,900	115
120	67.2	267.2	24,000	69.6	265.6	22,400	72.0	261.6	19,400	120
125	66.1	264.9	23,800	68.5	263.3	22,200	70.9	259.3	18,900	125
130	64.9	262.5	22,400	67.3	260.9	21,900	69.7	256.9	18,500	130
135	63.8	260.0	20,900	66.2	258.4	21,700	68.6	254.3	18,000	135
140	62.7	257.4	19,400	65.1	255.7	20,600	67.4	251.6	17,700	140
145	61.5	254.7	18,100	63.9	253.0	19,200	66.2	248.8	17,200	145
150	60.3	251.8	16,800	62.7	250.1	17,900	65.0	245.9	16,900	150
155	59.2	248.8	15,700	61.5	247.0	16,700	63.8	242.8	16,600	155
160	58.0	245.6	14,600	60.3	243.8	15,600	62.6	239.5	16,300	160
165	56.7	242.3	13,600	59.1	240.5	14,500	61.3	236.1	15,400	165
170	55.5	238.8	12,600	57.9	237.0	13,500	60.1	232.5	14,400	170
175	54.3	235.2	11,700	56.6	233.3	12,600	58.8	228.8	13,400	175
180	53.0	231.3	10,900	55.3	229.5	11,700	57.5	224.9	12,500	180
185	51.7	227.4	10,100	54.0	225.4	10,900	56.1	220.8	11,600	185
190	50.4	223.2	9,300	52.7	221.2	10,100	54.8	216.5	10,800	190
195	49.0	218.8	8,600	51.3	216.8	9,300	53.4	211.9	10,000	195
200	47.7	214.2	7,900	49.9	212.2	8,600	52.0	207.2	9,200	200
205	46.3	209.4	7,300	48.5	207.3	7,900	50.5	202.2	8,500	205
210	44.8	204.3	6,700	47.1	202.2	7,300	49.0	196.9	7,800	210
215	43.3	199.0	6,100	45.6	196.8	6,700	47.5	191.4	7,200	215
220	41.8	193.4	5,600	44.0	191.1	6,100	45.9	185.5	6,500	220
225	40.2	187.4	5,000	42.4	185.1	5,500	44.3	179.3	5,900	225
230	38.6	181.1	4,500	40.8	178.7	5,000	42.5	172.7	5,300	230
235	36.9	174.5	4,000	39.1	171.9	4,400	40.8	165.7	4,800	235



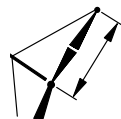
149,600 lb
+
60,400 lb



360°

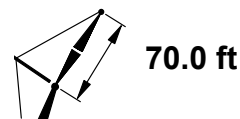
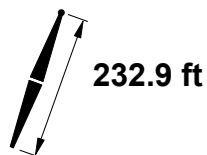
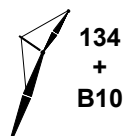


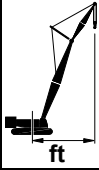
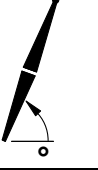
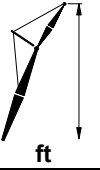
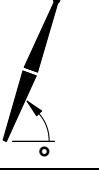
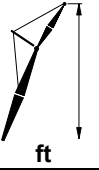
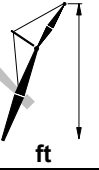
223.1 ft

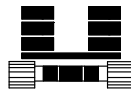


70.0 ft

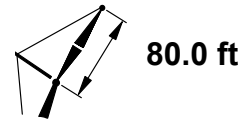
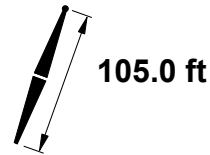
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
57	80.8	296.5	27,700							57
60	80.3	296.0	27,600							60
65	79.3	295.0	27,500							65
69	78.5	294.1	27,300	80.9	292.6	25,400				69
70	78.3	293.9	27,300	80.7	292.4	25,300				70
75	77.3	292.7	27,000	79.7	291.2	25,000				75
80	76.2	291.5	26,700	78.6	289.9	24,700				80
81	76.0	291.2	26,700	78.4	289.7	24,700	80.9	285.9	22,500	81
85	75.2	290.1	26,500	77.6	288.6	24,400	80.1	284.8	22,300	85
90	74.2	288.7	26,100	76.6	287.1	24,100	79.0	283.3	22,000	90
95	73.2	287.1	25,800	75.6	285.6	23,800	78.0	281.8	21,800	95
100	72.2	285.5	25,500	74.5	283.9	23,600	76.9	280.1	21,600	100
105	71.1	283.8	25,200	73.5	282.2	23,300	75.9	278.3	21,100	105
110	70.1	281.9	24,800	72.4	280.3	23,000	74.8	276.4	20,600	110
115	69.0	279.9	24,400	71.4	278.3	22,800	73.7	274.4	20,000	115
120	68.0	277.9	24,100	70.3	276.3	22,400	72.7	272.3	19,600	120
125	66.9	275.7	23,600	69.3	274.1	22,200	71.6	270.1	19,200	125
130	65.8	273.4	21,900	68.2	271.8	21,900	70.5	267.8	18,700	130
135	64.8	271.0	20,400	67.1	269.4	21,700	69.4	265.3	18,300	135
140	63.7	268.5	18,900	66.0	266.8	20,200	68.3	262.8	17,900	140
145	62.6	265.9	17,600	64.9	264.2	18,800	67.1	260.1	17,600	145
150	61.4	263.1	16,400	63.7	261.4	17,500	66.0	257.2	17,200	150
155	60.3	260.3	15,200	62.6	258.5	16,300	64.8	254.3	16,900	155
160	59.2	257.2	14,100	61.5	255.5	15,100	63.7	251.2	16,200	160
165	58.0	254.1	13,100	60.3	252.3	14,100	62.5	247.9	15,000	165
170	56.8	250.8	12,100	59.1	249.0	13,100	61.3	244.6	14,000	170
175	55.6	247.3	11,300	57.9	245.5	12,100	60.0	241.0	13,000	175
180	54.4	243.7	10,400	56.7	241.8	11,300	58.8	237.3	12,100	180
185	53.2	239.9	9,600	55.5	238.0	10,400	57.6	233.4	11,200	185
190	52.0	236.0	8,900	54.2	234.0	9,600	56.3	229.3	10,400	190
195	50.7	231.8	8,100	52.9	229.9	8,900	55.0	225.1	9,600	195
200	49.4	227.5	7,500	51.6	225.5	8,200	53.6	220.6	8,800	200
205	48.1	223.0	6,800	50.3	221.0	7,500	52.3	216.0	8,100	205
210	46.7	218.3	6,200	48.9	216.2	6,800	50.9	211.1	7,400	210
215	45.4	213.3	5,600	47.5	211.1	6,200	49.4	205.9	6,800	215
220	44.0	208.1	5,100	46.1	205.9	5,600	48.0	200.5	6,100	220
225	42.5	202.6	4,600	44.6	200.3	5,100	46.5	194.8	5,500	225
230	41.0	196.8	4,000	43.1	194.5	4,500	44.9	188.7	5,000	230
235				41.6	188.3	4,000	43.3	182.4	4,400	235

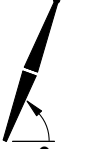
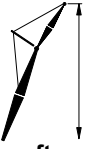
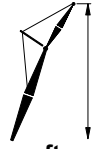
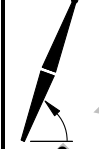
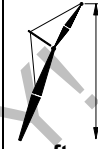
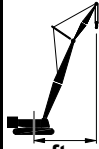


	5°			15°			25°			
										
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
58	81.0	306.3	28,200							58
60	80.6	306.0	27,200							60
65	79.6	305.0	27,100							65
70	78.6	304.0	27,000	81.0	302.4	25,300				70
75	77.7	302.9	26,700	80.0	301.3	25,000				75
80	76.7	301.7	26,500	79.0	300.1	24,700				80
82	76.3	301.1	26,400	78.6	299.6	24,600	81.0	295.8	22,400	82
85	75.7	300.3	26,200	78.0	298.8	24,400	80.4	295.0	22,200	85
90	74.7	298.9	26,000	77.0	297.4	24,100	79.4	293.6	22,100	90
95	73.8	297.5	25,700	76.1	295.9	23,900	78.4	292.0	21,900	95
100	72.8	295.9	25,400	75.1	294.3	23,600	77.4	290.4	21,600	100
105	71.8	294.2	25,100	74.1	292.6	23,300	76.4	288.7	21,400	105
110	70.8	292.4	24,800	73.0	290.8	23,100	75.4	286.9	20,800	110
115	69.8	290.5	24,500	72.0	288.9	22,700	74.3	285.0	20,300	115
120	68.7	288.5	24,200	71.0	286.9	22,500	73.3	282.9	19,900	120
125	67.7	286.5	23,700	70.0	284.8	22,300	72.2	280.8	19,400	125
130	66.7	284.3	22,000	68.9	282.6	22,000	71.2	278.6	19,000	130
135	65.6	282.0	20,400	67.9	280.3	21,700	70.1	276.2	18,600	135
140	64.6	279.6	19,000	66.8	277.9	20,200	69.0	273.8	18,200	140
145	63.5	277.0	17,600	65.8	275.3	18,800	68.0	271.2	17,800	145
150	62.5	274.4	16,400	64.7	272.7	17,500	66.9	268.5	17,500	150
155	61.4	271.6	15,200	63.6	269.9	16,300	65.8	265.7	17,200	155
160	60.3	268.7	14,100	62.5	267.0	15,200	64.6	262.7	16,200	160
165	59.2	265.7	13,100	61.4	263.9	14,100	63.5	259.6	15,100	165
170	58.1	262.6	12,200	60.3	260.8	13,100	62.4	256.4	14,000	170
175	56.9	259.3	11,300	59.1	257.4	12,200	61.2	253.0	13,100	175
180	55.8	255.8	10,400	58.0	254.0	11,300	60.0	249.5	12,100	180
185	54.6	252.2	9,600	56.8	250.4	10,500	58.8	245.8	11,200	185
190	53.4	248.5	8,900	55.6	246.6	9,700	57.6	241.9	10,400	190
195	52.2	244.6	8,200	54.4	242.6	8,900	56.4	237.9	9,600	195
200	51.0	240.5	7,500	53.2	238.5	8,200	55.1	233.7	8,900	200
205	49.8	236.2	6,800	51.9	234.2	7,500	53.8	229.3	8,200	205
210	48.5	231.8	6,200	50.6	229.7	6,900	52.5	224.7	7,500	210
215	47.2	227.1	5,600	49.3	225.0	6,300	51.2	219.9	6,800	215
220	45.9	222.2	5,100	48.0	220.1	5,700	49.8	214.8	6,200	220
225	44.5	217.1	4,600	46.6	214.9	5,100	48.4	209.5	5,600	225
230	43.1	211.7	4,100	45.2	209.5	4,600	47.0	204.0	5,000	230
235				43.8	203.8	4,100	45.5	198.1	4,500	235
240							44.0	191.9	4,000	240



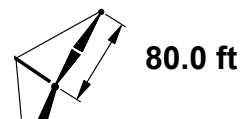
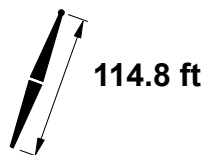
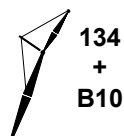
149,600 lb
+
60,400 lb

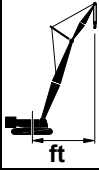
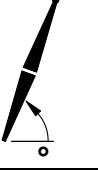
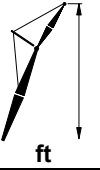
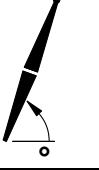
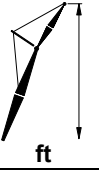
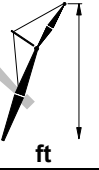


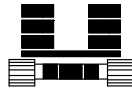
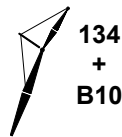
	5°			15°			25°			
										
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
38	81.0	190.2	23,700							38
40	80.4	189.8	23,700							40
45	78.8	188.8	23,500							45
50	77.2	187.6	23,100							50
52	76.6	187.1	22,900	81.0	186.0	22,500				52
55	75.6	186.3	22,700	80.0	185.2	22,200				55
60	74.0	184.9	22,300	78.4	183.8	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	15,000	43.9	122.3	14,200	47.7	117.6	11,400	150
155	37.3	117.5	14,700	41.3	115.7	13,700	45.0	110.7	11,100	155
160	34.6	110.4	14,400	38.6	108.4	13,300	42.1	103.0	10,900	160
164	32.3	104.0	14,200	36.2	101.9	13,000	39.6	96.2	10,700	164
165	31.7	102.4	14,100	35.6	100.3	12,900				165
170	28.5	93.4	13,900	32.4	91.1	12,500				170
175	24.9	83.1	13,600	28.7	80.4	12,300				175
176	24.1	80.6	13,600	27.9	78.0	12,200				176
180	20.8	70.6	13,400							180
183	17.8	61.5	13,200							183

MLC200 S-2

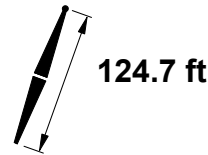
ASME B30.5



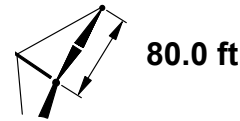
	5°			15°			25°			
 ft	 o	 ft	 lb	 o	 ft	 lb	 o	 ft	 lb	 ft
40	80.9	199.8	23,500							40
45	79.4	198.9	23,400							45
50	77.9	197.8	23,100							50
54	76.7	196.8	22,800	80.8	195.6	22,300				54
55	76.4	196.5	22,700	80.5	195.4	22,300				55
60	74.8	195.2	22,300	79.0	194.0	21,900				60
65	73.3	193.6	22,000	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	16,200	51.4	147.8	15,500	55.2	143.6	12,500	140
145	45.4	144.4	15,900	49.3	142.8	15,200	53.0	138.5	12,100	145
150	43.3	139.1	15,500	47.2	137.5	14,700	50.8	132.9	11,800	150
155	41.0	133.4	15,200	44.9	131.7	14,300	48.5	126.9	11,500	155
160	38.7	127.2	14,900	42.5	125.4	13,900	46.0	120.4	11,200	160
165	36.2	120.5	14,500	40.0	118.5	13,500	43.3	113.2	11,000	165
170	33.6	113.0	14,300	37.3	111.0	13,100	40.5	105.2	10,700	170
172	32.4	109.7	14,200	36.2	107.6	13,000	39.3	101.7	10,700	172
175	30.7	104.8	14,000	34.4	102.5	12,700				175
180	27.6	95.5	13,800	31.2	93.0	12,500				180
184	24.8	86.9	13,600	28.4	84.2	12,200				184
185	24.2	84.7	13,600							185
190	20.1	71.8	13,300							190
192	18.2	65.7	13,200							192



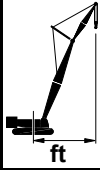
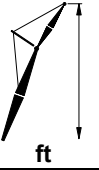
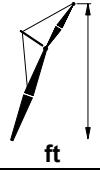
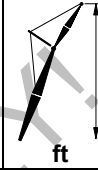
149,600 lb
+
60,400 lb

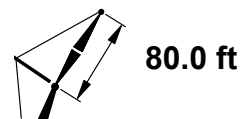
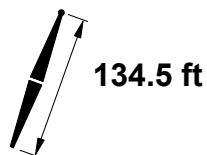
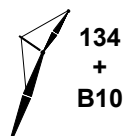


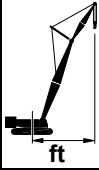
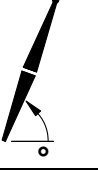
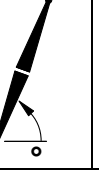
124.7 ft

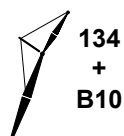


80.0 ft

	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	17,000	55.6	165.3	16,200	59.3	161.3	13,200	135
140	50.0	162.6	16,700	53.8	161.1	15,800	57.4	156.9	12,800	140
145	48.1	158.1	16,300	51.9	156.6	15,500	55.4	152.3	12,500	145
150	46.2	153.4	16,000	49.9	151.7	15,300	53.4	147.3	12,200	150
155	44.2	148.2	15,600	47.9	146.5	14,900	51.3	141.9	11,900	155
160	42.1	142.7	15,300	45.8	140.9	14,500	49.1	136.2	11,600	160
165	39.9	136.8	15,000	43.6	134.9	14,000	46.9	129.9	11,300	165
170	37.6	130.3	14,700	41.2	128.4	13,600	44.4	123.1	11,100	170
175	35.2	123.3	14,400	38.8	121.3	13,300	41.9	115.6	10,900	175
179	33.1	117.2	14,200	36.7	115.0	13,000	39.7	109.0	10,700	179
180	32.6	115.6	14,200	36.2	113.4	12,900				180
185	29.9	107.1	13,900	33.3	104.7	12,700				185
190	26.8	97.5	13,600	30.2	94.8	12,300				190
193	24.8	90.8	13,200	28.2	88.1	12,200				193
195	23.4	86.4	12,900							195
200	19.4	73.0	12,200							200
202	17.6	66.7	11,900							202



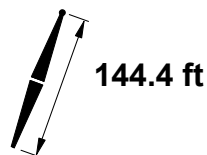
	5°			15°			25°			
 ft	 °	ft	lb	 °	ft	lb	 °	ft	lb	 ft
43	80.9	219.3	23,800							43
45	80.4	218.9	23,200							45
50	79.0	217.9	23,000							50
55	77.6	216.8	22,700							55
57	77.1	216.3	22,600	80.9	215.1	22,100				57
60	76.3	215.6	22,400	80.0	214.3	21,900				60
65	74.9	214.2	22,000	78.7	213.0	21,600				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	17,900	59.2	181.5	16,800	62.8	177.6	14,000	130
135	53.9	179.3	17,500	57.5	177.8	16,500	61.1	173.8	13,600	135
140	52.2	175.4	17,100	55.8	173.9	16,200	59.3	169.8	13,200	140
145	50.4	171.3	16,800	54.0	169.7	15,800	57.5	165.5	12,900	145
150	48.7	166.9	16,400	52.3	165.3	15,600	55.7	160.9	12,500	150
155	46.8	162.2	16,000	50.4	160.6	15,300	53.8	156.1	12,200	155
160	45.0	157.2	15,800	48.5	155.5	15,100	51.8	150.9	11,900	160
165	43.0	151.9	15,400	46.5	150.1	14,600	49.7	145.3	11,700	165
170	41.0	146.2	15,200	44.5	144.3	14,200	47.6	139.3	11,400	170
175	38.8	140.0	14,900	42.3	138.1	13,900	45.4	132.8	11,200	175
180	36.6	133.3	14,600	40.0	131.3	13,500	43.0	125.7	10,900	180
185	34.3	126.1	13,900	37.7	123.9	13,100	40.5	117.9	10,700	185
187	33.3	122.9	13,600	36.6	120.7	13,000	39.4	114.6	10,700	187
190	31.8	118.1	13,100	35.1	115.8	12,900				190
195	29.1	109.3	12,400	32.3	106.8	12,600				195
200	26.1	99.4	11,700	29.3	96.5	12,000				200
202	24.7	94.8	11,400	27.9	92.0	11,700				202
205	22.7	87.9	11,100							205
210	18.8	74.1	10,400							210
211	17.9	70.9	10,300							211



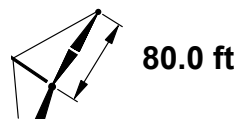
149,600 lb
+
60,400 lb



360°

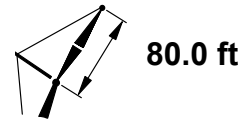
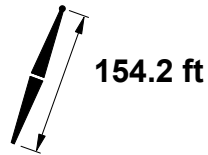
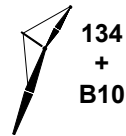


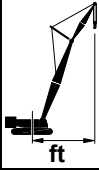
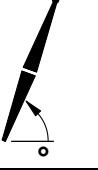
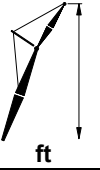
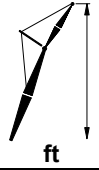
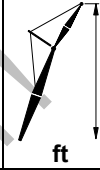
144.4 ft

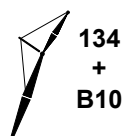


80.0 ft

	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	18,300	62.3	196.7	17,400	65.8	192.8	14,700	125
130	57.2	194.9	18,100	60.7	193.4	17,000	64.2	189.5	14,300	130
135	55.7	191.5	17,900	59.2	190.0	16,700	62.6	186.0	13,900	135
140	54.1	187.9	17,500	57.6	186.3	16,400	61.0	182.2	13,600	140
145	52.5	184.0	17,100	56.0	182.5	16,200	59.3	178.3	13,200	145
150	50.9	180.0	16,800	54.3	178.4	15,900	57.6	174.1	12,900	150
155	49.2	175.6	16,400	52.6	174.0	15,600	55.9	169.6	12,500	155
160	47.5	171.1	16,100	50.9	169.4	15,400	54.1	164.8	12,300	160
165	45.7	166.2	15,800	49.1	164.5	15,100	52.2	159.8	12,000	165
170	43.8	161.0	15,600	47.2	159.2	14,700	50.3	154.3	11,700	170
175	41.9	155.5	15,200	45.3	153.6	14,400	48.3	148.5	11,500	175
180	39.9	149.5	14,300	43.3	147.6	14,000	46.2	142.3	11,300	180
185	37.9	143.1	13,500	41.2	141.1	13,700	44.0	135.5	11,000	185
190	35.7	136.2	12,800	38.9	134.1	13,200	41.7	128.2	10,800	190
195	33.4	128.8	12,100	36.6	126.5	12,500	39.2	120.2	10,700	195
200	30.9	120.5	11,400	34.1	118.1	11,800				200
205	28.3	111.4	10,700	31.4	108.8	11,100				205
210	25.4	101.2	10,100	28.4	98.2	10,400				210
215	22.1	89.4	9,500							215
220	18.2	75.1	9,000							220
221	17.4	71.9	8,800							221



	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	18,400	63.6	208.2	17,600	66.9	204.3	15,100	125
130	58.8	206.6	18,200	62.2	205.1	17,300	65.5	201.2	14,600	130
135	57.3	203.4	17,900	60.7	201.9	17,000	64.0	197.9	14,300	135
140	55.9	200.0	17,700	59.2	198.5	16,800	62.5	194.4	13,900	140
145	54.4	196.4	17,500	57.7	194.9	16,500	60.9	190.7	13,500	145
150	52.8	192.6	17,200	56.1	191.0	16,200	59.3	186.8	13,200	150
155	51.3	188.6	16,800	54.5	187.0	15,900	57.7	182.6	12,900	155
160	49.7	184.4	16,500	52.9	182.7	15,600	56.0	178.2	12,600	160
165	48.0	179.9	16,200	51.3	178.2	15,400	54.3	173.5	12,300	165
170	46.3	175.1	15,500	49.6	173.3	15,200	52.6	168.6	12,000	170
175	44.6	170.0	14,600	47.8	168.2	14,900	50.8	163.3	11,800	175
180	42.8	164.7	13,800	46.0	162.8	14,400	48.9	157.7	11,600	180
185	40.9	158.9	13,000	44.1	157.0	13,600	46.9	151.7	11,300	185
190	39.0	152.8	12,300	42.1	150.7	12,800	44.9	145.2	11,100	190
195	37.0	146.2	11,600	40.1	144.1	12,100	42.7	138.2	10,900	195
200	34.8	139.1	10,900	37.9	136.8	11,300	40.5	130.7	10,700	200
202	33.9	136.0	10,600	37.0	133.7	11,100	39.5	127.4	10,700	202
205	32.6	131.3	10,200	35.6	129.0	10,700				205
210	30.2	122.9	9,600	33.2	120.3	10,000				210
215	27.6	113.5	9,000	30.5	110.7	9,400				215
219	25.3	105.1	8,600	28.2	102.1	8,900				219
220	24.7	103.0	8,500							220
225	21.5	90.8	7,900							225
230	17.7	76.1	7,400							230



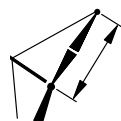
149,600 lb
+
60,400 lb



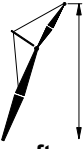
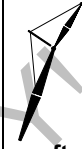
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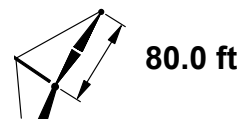
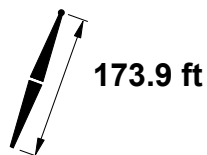
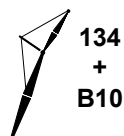


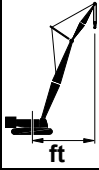
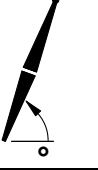
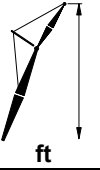
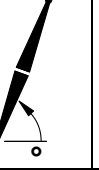
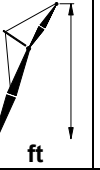
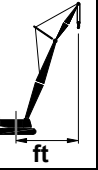
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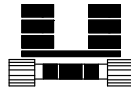
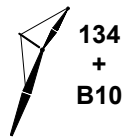


80.0 ft

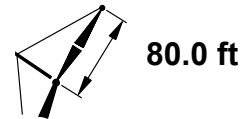
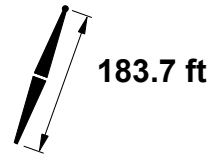
	5°			15°			25°			
										
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
48	80.8	248.4	23,200							48
50	80.4	248.0	22,600							50
55	79.2	247.0	22,500							55
60	78.0	246.0	22,300							60
62	77.5	245.5	22,100	80.8	244.2	21,700				62
65	76.7	244.8	22,000	80.1	243.4	21,600				65
70	75.5	243.5	21,700	78.9	242.1	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	18,800	66.1	222.3	18,200	69.4	218.4	15,800	120
125	61.6	221.0	18,500	64.8	219.5	17,800	68.0	215.6	15,400	125
130	60.2	218.1	18,200	63.4	216.6	17,600	66.6	212.7	14,900	130
135	58.8	215.1	18,000	62.0	213.6	17,200	65.2	209.5	14,600	135
140	57.4	211.9	17,800	60.6	210.4	17,000	63.8	206.3	14,200	140
145	56.0	208.5	17,500	59.2	207.0	16,700	62.3	202.8	13,800	145
150	54.6	205.0	17,300	57.8	203.4	16,400	60.8	199.1	13,500	150
155	53.1	201.2	17,100	56.3	199.6	16,200	59.3	195.2	13,200	155
160	51.6	197.2	16,800	54.8	195.6	15,900	57.8	191.1	12,900	160
165	50.1	193.0	16,000	53.2	191.4	15,700	56.2	186.8	12,600	165
170	48.5	188.6	15,100	51.6	186.9	15,500	54.6	182.2	12,300	170
175	46.9	184.0	14,200	50.0	182.2	14,900	52.9	177.4	12,100	175
180	45.3	179.0	13,400	48.3	177.2	14,000	51.2	172.3	11,800	180
185	43.6	173.8	12,600	46.6	171.9	13,200	49.4	166.8	11,600	185
190	41.8	168.2	11,800	44.8	166.3	12,400	47.6	161.0	11,400	190
195	40.0	162.3	11,100	43.0	160.2	11,700	45.7	154.7	11,200	195
200	38.1	155.9	10,400	41.1	153.8	11,000	43.7	148.1	11,000	200
205	36.1	149.1	9,800	39.1	146.9	10,300	41.6	140.9	10,700	205
210	34.0	141.8	9,200	37.0	139.5	9,600	39.4	133.0	10,000	210
215	31.8	133.8	8,600	34.7	131.4	9,000				215
220	29.5	125.1	8,100	32.3	122.5	8,400				220
225	26.9	115.5	7,500	29.7	112.6	7,800				225
228	25.2	109.0	7,200	28.0	106.0	7,500				228
230	24.1	104.7	7,000							230
235	20.9	92.1	6,500							235
239	18.0	80.3	6,100							239

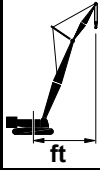
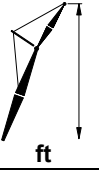
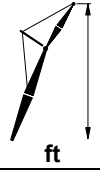
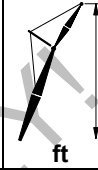


	5°			15°			25°			
										
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
49	81.0	258.2	23,100							49
50	80.7	258.0	23,000							50
55	79.6	257.1	22,300							55
60	78.4	256.0	22,100							60
63	77.7	255.3	22,000	80.9	254.0	21,600				63
65	77.3	254.9	21,900	80.5	253.6	21,500				65
70	76.1	253.6	21,600	79.3	252.3	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	18,800	67.1	233.3	18,400	70.3	229.4	16,100	120
125	62.8	232.2	18,500	65.9	230.7	18,100	69.0	226.8	15,700	125
130	61.5	229.5	18,300	64.6	228.0	17,700	67.7	224.0	15,300	130
135	60.2	226.6	18,000	63.3	225.1	17,500	66.3	221.0	14,900	135
140	58.9	223.6	17,800	61.9	222.0	17,200	65.0	217.9	14,500	140
145	57.5	220.4	17,600	60.6	218.8	16,900	63.6	214.6	14,200	145
150	56.2	217.0	17,400	59.2	215.4	16,700	62.2	211.2	13,800	150
155	54.8	213.5	17,100	57.8	211.9	16,400	60.8	207.6	13,500	155
160	53.4	209.8	16,500	56.4	208.1	16,200	59.3	203.7	13,200	160
165	51.9	205.8	15,500	55.0	204.2	15,900	57.9	199.7	12,900	165
170	50.5	201.7	14,600	53.5	200.0	15,400	56.3	195.4	12,700	170
175	49.0	197.4	13,700	52.0	195.6	14,500	54.8	190.9	12,400	175
180	47.4	192.8	12,800	50.4	191.0	13,600	53.2	186.2	12,100	180
185	45.9	187.9	12,100	48.8	186.1	12,700	51.6	181.1	11,900	185
190	44.3	182.8	11,300	47.2	180.9	12,000	49.9	175.8	11,700	190
195	42.6	177.4	10,600	45.5	175.5	11,200	48.2	170.2	11,500	195
200	40.9	171.7	9,900	43.8	169.6	10,500	46.4	164.1	11,000	200
205	39.1	165.5	9,300	42.0	163.4	9,800	44.5	157.7	10,300	205
210	37.2	159.0	8,700	40.1	156.8	9,200	42.5	150.8	9,600	210
215	35.3	152.0	8,100	38.1	149.7	8,600	40.5	143.4	8,900	215
218	34.1	147.5	7,800	36.9	145.1	8,200	39.2	138.7	8,600	218
220	33.3	144.5	7,500	36.1	142.0	8,000				220
225	31.1	136.3	7,000	33.8	133.7	7,400				225
230	28.8	127.3	6,500	31.5	124.5	6,800				230
235	26.3	117.4	6,000	28.9	114.4	6,300				235
237	25.2	113.0	5,800	27.8	110.0	6,100				237
240	23.5	106.3	5,500							240
245	20.4	93.4	5,100							245
249	17.5	81.3	4,700							249



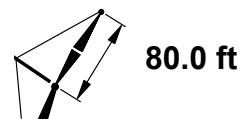
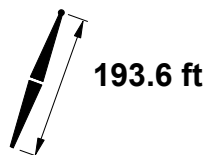
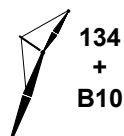
149,600 lb
+
60,400 lb

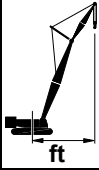
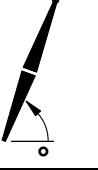
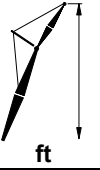
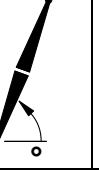
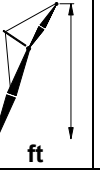
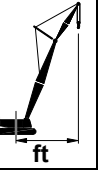


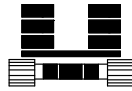
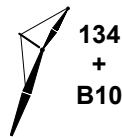
	5°			15°			25°			
										
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
51	80.9	267.8	22,900							51
55	80.0	267.1	22,100							55
60	78.9	266.1	22,000							60
65	77.8	265.0	21,800	80.8	263.6	21,500				65
70	76.6	263.8	21,600	79.7	262.4	21,200				70
75	75.5	262.5	21,300	78.6	261.1	21,000				75
79	74.6	261.4	21,300	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	18,800	68.1	244.3	18,500	71.1	240.4	16,400	120
125	63.9	243.3	18,600	66.9	241.8	18,300	69.9	237.8	16,000	125
130	62.6	240.7	18,300	65.6	239.2	18,000	68.6	235.2	15,500	130
135	61.4	238.0	18,100	64.4	236.4	17,700	67.3	232.4	15,100	135
140	60.1	235.1	17,900	63.1	233.5	17,400	66.1	229.4	14,800	140
145	58.9	232.1	17,600	61.8	230.5	17,200	64.8	226.3	14,400	145
150	57.6	228.9	17,400	60.5	227.3	16,900	63.4	223.0	14,100	150
155	56.3	225.5	17,200	59.2	223.9	16,600	62.1	219.6	13,800	155
160	55.0	222.0	16,200	57.9	220.4	16,400	60.7	216.0	13,500	160
165	53.6	218.3	15,100	56.5	216.7	16,100	59.3	212.2	13,200	165
170	52.2	214.4	14,200	55.1	212.8	15,100	57.9	208.2	12,900	170
175	50.8	210.4	13,300	53.7	208.6	14,100	56.5	204.0	12,700	175
180	49.4	206.1	12,500	52.3	204.3	13,300	55.0	199.6	12,400	180
185	47.9	201.6	11,700	50.8	199.8	12,400	53.5	194.9	12,200	185
190	46.4	196.8	10,900	49.3	195.0	11,600	51.9	190.0	12,000	190
195	44.9	191.8	10,200	47.7	189.9	10,900	50.3	184.8	11,500	195
200	43.3	186.5	9,600	46.1	184.6	10,200	48.7	179.3	10,800	200
205	41.7	181.0	8,900	44.5	178.9	9,500	47.0	173.4	10,000	205
210	40.0	175.0	8,300	42.8	172.9	8,900	45.2	167.2	9,400	210
215	38.3	168.7	7,700	41.0	166.5	8,300	43.4	160.6	8,700	215
220	36.4	162.0	7,200	39.2	159.7	7,700	41.5	153.5	8,100	220
225	34.5	154.8	6,700	37.2	152.4	7,100	39.4	145.9	7,500	225
230	32.5	147.1	6,200	35.2	144.5	6,600				230
235	30.4	138.7	5,700	33.0	136.0	6,000				235
240	28.1	129.5	5,200	30.7	126.6	5,500				240
245	25.7	119.3	4,700	28.2	116.1	5,000				245
250	23.0	107.9	4,300							250

MLC200 S-2

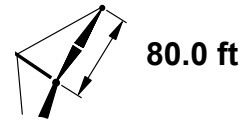
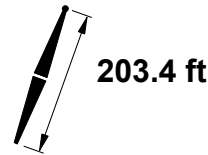
ASME B30.5



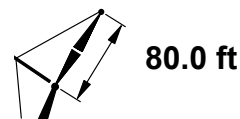
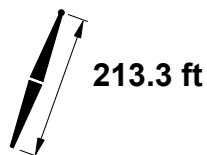
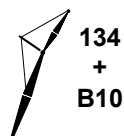
	5°			15°			25°			
										
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
52	81.0	277.6	22,900							52
55	80.3	277.1	21,900							55
60	79.3	276.1	21,900							60
65	78.2	275.1	21,700							65
66	78.0	274.9	21,700	81.0	273.5	21,400				66
70	77.1	273.9	21,500	80.1	272.6	21,200				70
75	76.1	272.7	21,200	79.0	271.3	20,900				75
80	75.0	271.3	21,000	77.9	269.9	20,700	81.0	266.2	19,100	80
85	73.9	269.9	20,700	76.8	268.5	20,400	79.9	264.7	18,800	85
90	72.8	268.3	20,400	75.7	266.9	20,200	78.7	263.1	18,600	90
95	71.7	266.6	20,100	74.6	265.2	20,000	77.6	261.4	18,300	95
100	70.6	264.9	19,900	73.5	263.4	19,700	76.5	259.6	18,000	100
105	69.4	263.0	19,600	72.4	261.5	19,500	75.3	257.7	17,800	105
110	68.3	261.0	19,300	71.2	259.5	19,300	74.2	255.6	17,600	110
115	67.2	258.9	19,100	70.1	257.4	19,000	73.0	253.5	17,200	115
120	66.0	256.6	18,800	68.9	255.1	18,700	71.9	251.2	16,700	120
125	64.9	254.3	18,600	67.8	252.8	18,400	70.7	248.8	16,200	125
130	63.7	251.8	18,300	66.6	250.3	18,100	69.5	246.2	15,800	130
135	62.5	249.2	18,100	65.4	247.7	17,900	68.3	243.6	15,400	135
140	61.3	246.4	17,900	64.2	244.9	17,600	67.0	240.8	15,100	140
145	60.1	243.6	17,700	63.0	242.0	17,300	65.8	237.8	14,700	145
150	58.9	240.5	17,500	61.8	238.9	17,100	64.6	234.7	14,400	150
155	57.7	237.4	16,700	60.5	235.8	16,900	63.3	231.5	14,000	155
160	56.4	234.0	15,600	59.2	232.4	16,600	62.0	228.0	13,800	160
165	55.1	230.5	14,600	58.0	228.9	15,600	60.7	224.4	13,500	165
170	53.8	226.9	13,700	56.6	225.2	14,600	59.3	220.7	13,200	170
175	52.5	223.0	12,800	55.3	221.3	13,700	58.0	216.7	13,000	175
180	51.2	219.0	12,000	54.0	217.3	12,800	56.6	212.6	12,700	180
185	49.8	214.8	11,200	52.6	213.0	12,000	55.2	208.2	12,500	185
190	48.4	210.4	10,400	51.2	208.5	11,200	53.7	203.6	11,900	190
195	47.0	205.7	9,700	49.7	203.8	10,400	52.3	198.8	11,100	195
200	45.5	200.8	9,100	48.2	198.9	9,700	50.7	193.7	10,400	200
205	44.0	195.6	8,400	46.7	193.7	9,100	49.2	188.3	9,600	205
210	42.4	190.2	7,800	45.1	188.1	8,400	47.6	182.7	9,000	210
215	40.8	184.4	7,200	43.5	182.3	7,800	45.9	176.7	8,300	215
220	39.2	178.3	6,700	41.9	176.1	7,200	44.2	170.3	7,700	220
225	37.5	171.8	6,200	40.1	169.6	6,600	42.4	163.4	7,100	225
230	35.7	164.9	5,600	38.3	162.6	6,100	40.5	156.1	6,500	230
233	34.6	160.5	5,400	37.2	158.1	5,800	39.3	151.5	6,200	233
235	33.8	157.5	5,200	36.4	155.1	5,600				235
240	31.8	149.6	4,700	34.4	147.0	5,100				240
245	29.8	141.0	4,300	32.3	138.2	4,600				245
250				30.0	128.5	4,100				250

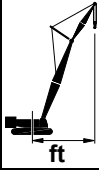
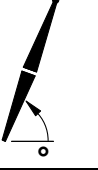
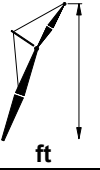
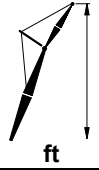
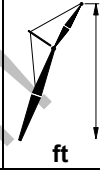


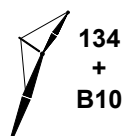
149,600 lb
+
60,400 lb



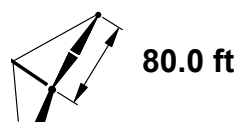
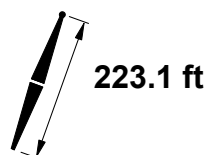
	5°			15°			25°			
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
54	80.9	287.3	22,600							54
55	80.7	287.1	22,500							55
60	79.7	286.2	21,700							60
65	78.6	285.2	21,500							65
68	78.0	284.5	21,400	80.9	283.1	21,200				68
70	77.6	284.0	21,400	80.4	282.7	21,100				70
75	76.5	282.8	21,100	79.4	281.4	20,800				75
80	75.5	281.5	20,900	78.4	280.1	20,600				80
82	75.1	281.0	20,800	77.9	279.6	20,500	80.9	275.8	19,000	82
85	74.5	280.1	20,600	77.3	278.7	20,400	80.2	274.9	18,900	85
90	73.4	278.6	20,400	76.2	277.2	20,200	79.2	273.4	18,600	90
95	72.3	277.0	20,100	75.2	275.6	19,900	78.1	271.7	18,300	95
100	71.3	275.3	19,800	74.1	273.9	19,700	77.0	270.0	18,100	100
105	70.2	273.5	19,600	73.0	272.1	19,500	75.9	268.2	17,900	105
110	69.1	271.6	19,300	71.9	270.1	19,300	74.8	266.2	17,600	110
115	68.0	269.6	19,100	70.8	268.1	19,100	73.7	264.1	17,400	115
120	66.9	267.4	18,800	69.7	265.9	18,800	72.6	261.9	16,900	120
125	65.8	265.2	18,600	68.6	263.7	18,600	71.4	259.6	16,500	125
130	64.7	262.8	18,400	67.5	261.3	18,300	70.3	257.2	16,100	130
135	63.6	260.3	18,100	66.3	258.8	18,000	69.1	254.7	15,800	135
140	62.4	257.7	17,900	65.2	256.1	17,800	68.0	252.0	15,400	140
145	61.3	254.9	17,700	64.0	253.4	17,500	66.8	249.2	15,000	145
150	60.1	252.0	17,400	62.9	250.4	17,200	65.6	246.2	14,700	150
155	58.9	249.0	16,300	61.7	247.4	17,100	64.4	243.1	14,400	155
160	57.7	245.8	15,200	60.5	244.2	16,300	63.1	239.9	14,000	160
165	56.5	242.5	14,200	59.2	240.9	15,200	61.9	236.5	13,700	165
170	55.3	239.1	13,300	58.0	237.4	14,200	60.6	232.9	13,500	170
175	54.0	235.4	12,400	56.7	233.7	13,300	59.3	229.2	13,200	175
180	52.8	231.6	11,500	55.5	229.9	12,400	58.0	225.2	13,000	180
185	51.5	227.6	10,700	54.2	225.9	11,600	56.7	221.1	12,400	185
190	50.1	223.5	10,000	52.8	221.7	10,800	55.4	216.8	11,600	190
195	48.8	219.1	9,300	51.5	217.3	10,000	54.0	212.3	10,800	195
200	47.4	214.5	8,600	50.1	212.6	9,300	52.5	207.6	10,000	200
205	46.0	209.7	8,000	48.7	207.8	8,700	51.1	202.6	9,300	205
210	44.6	204.6	7,400	47.2	202.7	8,000	49.6	197.4	8,600	210
215	43.1	199.3	6,800	45.7	197.3	7,400	48.1	191.8	8,000	215
220	41.6	193.7	6,200	44.2	191.6	6,800	46.5	186.0	7,300	220
225	40.0	187.8	5,700	42.6	185.6	6,300	44.8	179.8	6,700	225
230	38.4	181.5	5,200	41.0	179.3	5,700	43.1	173.2	6,200	230
235	36.7	174.8	4,700	39.3	172.5	5,200	41.4	166.2	5,600	235
240	35.0	167.8	4,300	37.5	165.3	4,700	39.5	158.7	5,100	240
245				35.6	157.6	4,200				245

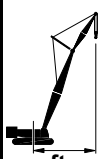
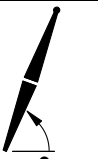
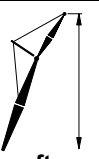
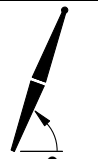
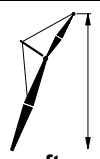
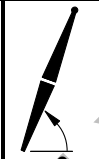
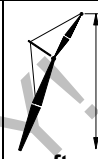
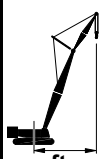


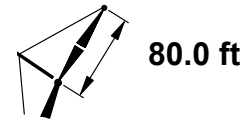
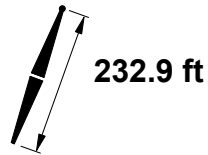
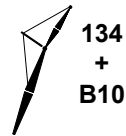
	5°			15°			25°			
										
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
55	81.0	297.1	22,400							55
60	80.0	296.2	21,400							60
65	79.0	295.2	21,300							65
69	78.2	294.4	21,200	81.0	293.0	21,000				69
70	78.0	294.1	21,200	80.8	292.7	21,000				70
75	77.0	293.0	21,000	79.8	291.6	20,800				75
80	76.0	291.7	20,800	78.8	290.3	20,500				80
83	75.4	290.9	20,600	78.1	289.5	20,400	81.0	285.7	19,000	83
85	75.0	290.4	20,600	77.7	288.9	20,300	80.6	285.1	18,900	85
90	74.0	288.9	20,300	76.7	287.5	20,100	79.6	283.6	18,600	90
95	72.9	287.4	20,000	75.7	285.9	19,900	78.5	282.0	18,400	95
100	71.9	285.7	19,800	74.7	284.3	19,700	77.5	280.4	18,200	100
105	70.9	284.0	19,600	73.6	282.5	19,400	76.4	278.6	18,000	105
110	69.8	282.1	19,300	72.6	280.7	19,200	75.3	276.7	17,700	110
115	68.8	280.2	19,100	71.5	278.7	19,000	74.3	274.7	17,500	115
120	67.7	278.1	18,800	70.5	276.6	18,800	73.2	272.6	17,200	120
125	66.7	276.0	18,600	69.4	274.5	18,700	72.1	270.4	16,800	125
130	65.6	273.7	18,300	68.3	272.2	18,400	71.0	268.1	16,400	130
135	64.5	271.3	18,200	67.2	269.8	18,200	69.9	265.6	15,900	135
140	63.4	268.8	17,900	66.1	267.2	17,900	68.8	263.1	15,600	140
145	62.3	266.2	17,700	65.0	264.6	17,700	67.7	260.4	15,200	145
150	61.2	263.4	16,900	63.9	261.8	17,400	66.5	257.6	14,900	150
155	60.1	260.5	15,800	62.7	258.9	17,000	65.4	254.6	14,600	155
160	58.9	257.5	14,700	61.6	255.9	15,800	64.2	251.5	14,300	160
165	57.8	254.3	13,700	60.4	252.7	14,800	63.0	248.3	14,000	165
170	56.6	251.0	12,700	59.3	249.4	13,800	61.8	244.9	13,700	170
175	55.4	247.6	11,900	58.1	245.9	12,800	60.6	241.3	13,500	175
180	54.2	244.0	11,000	56.8	242.3	12,000	59.4	237.6	12,900	180
185	53.0	240.2	10,200	55.6	238.5	11,100	58.1	233.8	12,000	185
190	51.8	236.3	9,500	54.4	234.5	10,300	56.8	229.7	11,200	190
195	50.5	232.1	8,800	53.1	230.3	9,600	55.5	225.5	10,400	195
200	49.2	227.8	8,100	51.8	226.0	8,900	54.2	221.0	9,600	200
205	47.9	223.3	7,500	50.5	221.4	8,200	52.8	216.3	8,900	205
210	46.5	218.6	6,900	49.1	216.6	7,600	51.4	211.5	8,200	210
215	45.2	213.6	6,300	47.7	211.6	6,900	50.0	206.3	7,600	215
220	43.7	208.4	5,700	46.3	206.4	6,400	48.5	200.9	6,900	220
225	42.3	202.9	5,200	44.8	200.8	5,800	47.0	195.2	6,300	225
230	40.8	197.1	4,700	43.3	195.0	5,300	45.5	189.2	5,800	230
235	39.3	191.1	4,200	41.8	188.8	4,700	43.9	182.8	5,200	235
240				40.1	182.3	4,200	42.2	176.1	4,700	240
245							40.5	168.9	4,100	245

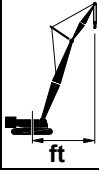
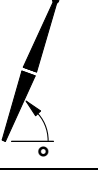
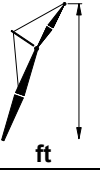
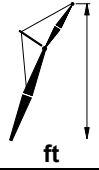
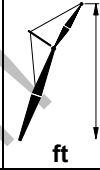


149,600 lb
+
60,400 lb



	5°			15°			25°			
										
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
57	80.9	306.7	22,200							57
60	80.3	306.2	21,200							60
65	79.4	305.3	21,200							65
70	78.4	304.2	21,000							70
71	78.2	304.0	21,000	80.9	302.6	20,800				71
75	77.4	303.1	20,900	80.1	301.7	20,700				75
80	76.5	301.9	20,900	79.1	300.4	20,400				80
85	75.5	300.6	20,400	78.2	299.1	20,200	80.9	295.3	18,900	85
90	74.5	299.2	20,200	77.2	297.7	20,000	79.9	293.8	18,600	90
95	73.5	297.7	19,900	76.2	296.2	19,800	78.9	292.3	18,400	95
100	72.5	296.1	19,700	75.2	294.6	19,600	77.9	290.7	18,200	100
105	71.5	294.4	19,500	74.2	292.9	19,400	76.9	289.0	18,000	105
110	70.5	292.6	19,200	73.2	291.2	19,200	75.9	287.2	17,800	110
115	69.5	290.8	19,000	72.2	289.3	19,000	74.8	285.3	17,500	115
120	68.5	288.8	18,800	71.1	287.3	18,800	73.8	283.2	17,300	120
125	67.5	286.7	18,600	70.1	285.2	18,600	72.7	281.1	17,000	125
130	66.4	284.5	18,300	69.1	283.0	18,400	71.7	278.9	16,600	130
135	65.4	282.2	18,100	68.0	280.7	18,200	70.6	276.5	16,200	135
140	64.4	279.8	17,900	67.0	278.2	18,000	69.6	274.1	15,900	140
145	63.3	277.3	17,700	65.9	275.7	17,800	68.5	271.5	15,500	145
150	62.2	274.6	16,400	64.8	273.0	17,600	67.4	268.8	15,200	150
155	61.1	271.9	15,300	63.7	270.3	16,500	66.3	266.0	14,800	155
160	60.1	269.0	14,200	62.6	267.4	15,400	65.2	263.0	14,600	160
165	59.0	266.0	13,200	61.5	264.3	14,300	64.0	259.9	14,200	165
170	57.8	262.8	12,300	60.4	261.2	13,300	62.9	256.7	14,000	170
175	56.7	259.5	11,400	59.3	257.8	12,400	61.7	253.3	13,400	175
180	55.6	256.1	10,500	58.1	254.4	11,500	60.6	249.8	12,500	180
185	54.4	252.5	9,700	56.9	250.8	10,700	59.4	246.1	11,600	185
190	53.2	248.8	9,000	55.7	247.0	9,900	58.1	242.3	10,800	190
195	52.0	244.9	8,300	54.5	243.1	9,100	56.9	238.3	10,000	195
200	50.8	240.8	7,600	53.3	239.0	8,400	55.7	234.1	9,200	200
205	49.6	236.5	7,000	52.1	234.7	7,800	54.4	229.7	8,500	205
210	48.3	232.1	6,400	50.8	230.2	7,100	53.1	225.1	7,800	210
215	47.0	227.4	5,800	49.5	225.5	6,500	51.7	220.3	7,200	215
220	45.7	222.5	5,200	48.1	220.6	5,900	50.4	215.2	6,500	220
225	44.3	217.4	4,700	46.8	215.4	5,400	49.0	209.9	5,900	225
230	42.9	212.1	4,200	45.4	210.0	4,800	47.5	204.4	5,400	230
235				43.9	204.3	4,300	46.1	198.5	4,800	235
240							44.5	192.3	4,300	240



	5°			15°			25°			
										
ft	o	ft	lb	o	ft	lb	o	ft	lb	ft
58	81.0	316.6	22,000							58
60	80.6	316.2	21,900							60
65	79.7	315.3	20,900							65
70	78.8	314.3	20,800							70
72	78.4	313.8	20,800	81.0	312.4	20,700				72
75	77.8	313.2	20,700	80.4	311.7	20,600				75
80	76.9	312.0	20,500	79.5	310.6	20,400				80
85	76.0	310.8	20,300	78.5	309.3	20,200				85
86	75.8	310.5	20,300	78.3	309.0	20,100	81.0	305.1	18,900	86
90	75.0	309.4	20,100	77.6	307.9	19,900	80.2	304.0	18,700	90
95	74.1	308.0	19,900	76.6	306.5	19,700	79.3	302.6	18,500	95
100	73.1	306.4	19,600	75.7	305.0	19,500	78.3	301.0	18,200	100
105	72.1	304.8	19,400	74.7	303.3	19,300	77.3	299.3	18,000	105
110	71.2	303.1	19,200	73.7	301.6	19,100	76.3	297.6	17,800	110
115	70.2	301.3	18,900	72.7	299.8	18,900	75.3	295.7	17,600	115
120	69.2	299.4	18,700	71.8	297.9	18,700	74.3	293.8	17,400	120
125	68.2	297.4	18,500	70.8	295.8	18,600	73.3	291.8	17,300	125
130	67.2	295.3	18,200	69.8	293.7	18,400	72.3	289.6	16,800	130
135	66.2	293.1	18,000	68.8	291.5	18,200	71.3	287.3	16,400	135
140	65.2	290.7	17,800	67.7	289.2	18,000	70.3	285.0	16,100	140
145	64.2	288.3	17,600	66.7	286.7	17,900	69.2	282.5	15,800	145
150	63.2	285.8	16,400	65.7	284.2	17,700	68.2	279.9	15,400	150
155	62.1	283.1	15,300	64.7	281.5	16,600	67.1	277.2	15,100	155
160	61.1	280.4	14,200	63.6	278.7	15,400	66.1	274.4	14,800	160
165	60.0	277.5	13,200	62.5	275.8	14,400	65.0	271.4	14,500	165
170	59.0	274.4	12,300	61.5	272.8	13,400	63.9	268.3	14,200	170
175	57.9	271.3	11,400	60.4	269.6	12,400	62.8	265.1	13,500	175
180	56.8	268.0	10,500	59.3	266.3	11,500	61.7	261.8	12,500	180
185	55.7	264.6	9,700	58.2	262.9	10,700	60.5	258.3	11,600	185
190	54.6	261.0	9,000	57.0	259.3	9,900	59.4	254.6	10,800	190
195	53.4	257.3	8,300	55.9	255.6	9,200	58.2	250.8	10,000	195
200	52.3	253.5	7,600	54.7	251.7	8,400	57.0	246.8	9,300	200
205	51.1	249.4	7,000	53.5	247.6	7,800	55.8	242.7	8,500	205
210	49.9	245.2	6,400	52.3	243.3	7,100	54.6	238.3	7,900	210
215	48.7	240.8	5,800	51.1	238.9	6,500	53.3	233.8	7,200	215
220	47.4	236.2	5,200	49.8	234.3	5,900	52.0	229.1	6,600	220
225	46.2	231.4	4,700	48.6	229.5	5,400	50.7	224.1	6,000	225
230	44.9	226.4	4,200	47.2	224.4	4,800	49.4	218.9	5,400	230
235				45.9	219.1	4,300	48.0	213.5	4,900	235
240							46.6	207.8	4,300	240