

Liftcrane Jib Capacities

Jib No. 148 on
 Boom No. B10:500
 with 441,400 lb Fixed Position Counterweight
 at 13.4 ft Position
 360 Degree Rating

MLC300 SERIES 3



LIFTING CAPACITIES: Chart supplements Boom Capacity chart **No. 9595-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. Refer to Boom Rigging **No. 81023380**, Jib Rigging **No. 81023385**, Wire Rope Specifications chart **No. 9471-A**, Counterweight Arrangements **No. 9345-A**, and Wind Conditions chart **No. 9472-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. 9618-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 31 ft 10 in. crawlers, 48 in. or 60 in. treads, 30 ft live mast, 24 part boom hoist reeving, boom support straps, and 441,400 lb Fixed Position Counterweight.

Luffing Jib Backstay Deduct	
Boom Length (ft)	Deduct (lb)
118.1	3,500
137.8	4,100
157.5	4,600
177.2	5,200
196.9	5,800
216.5	6,400
236.2	6,900
Deduct the appropriate value from capacities when luffing jib backstays are stored on boom.	

Refer to Table 1 (with luffing jib backstays stored) and Table 2 (without luffing jib backstays stored) 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.

Combined weight beneath boom and jib point sheaves must not exceed block weight shown. Total weight beneath jib point must not exceed 6,200 lb.

Table 1a: With Luffing Jib Backstays

Over End or Side of Crawlers						
Boom Length (ft)	Jib No. 148					
	39.4 ft	59.1 ft	78.7 ft	98.4 ft	118.1 ft	137.8 ft
	Block Weight (lb)					
118.1	22,900	22,900	22,900	22,900	22,900	22,900
137.8	22,900	22,900	22,900	22,900	22,900	22,900
157.5	22,900	22,900	22,900	22,900	22,900	15,800
177.2	22,900	22,900	15,800	15,800	8,300	8,300
196.9	8,300	8,300	8,300	#	#	#
216.5	#	#	#	#	#	#
236.2	#	Raising Not Permitted				
255.9						

Table 1b: With Luffing Jib Backstays

Over End of Blocked Crawlers						
Boom Length (ft)	Jib No. 148					
	39.4 ft	59.1 ft	78.7 ft	98.4 ft	118.1 ft	137.8 ft
	Block Weight (lb)					
118.1	22,900	22,900	22,900	22,900	22,900	22,900
137.8	22,900	22,900	22,900	22,900	22,900	22,900
157.5	22,900	22,900	22,900	22,900	22,900	15,800
177.2	22,900	22,900	15,800	15,800	8,300	8,300
196.9	8,300	8,300	8,300	#	#	#
216.5	#	#	#	#	#	#
236.2	#	#	Raising Not Permitted			
255.9						
Warning: Crane must remain in-line with crawlers when raising over end of blocked crawlers until operating radius is within 360 degree chart. <i>Crane tipping or structural damage can occur.</i>						

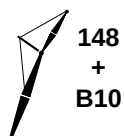
Table 2a: Without Luffing Jib Backstays

Over End or Side of Crawlers						
Boom Length (ft)	Jib No. 148					
	39.4 ft	59.1 ft	78.7 ft	98.4 ft	118.1 ft	137.8 ft
	Block Weight (lb)					
118.1	22,900	22,900	22,900	22,900	22,900	22,900
137.8	22,900	22,900	22,900	22,900	22,900	22,900
157.5	22,900	22,900	22,900	22,900	22,900	15,800
177.2	22,900	22,900	15,800	15,800	15,800	8,300
196.9	15,800	8,300	8,300	8,300	#	#
216.5	8,300	#	#	#	#	#
236.2	#	#	Raising Not Permitted			
255.9						

Table 2b: Without Luffing Jib Backstays

Over End of Blocked Crawlers						
Boom Length (ft)	Jib No. 148					
	39.4 ft	59.1 ft	78.7 ft	98.4 ft	118.1 ft	137.8 ft
	Block Weight (lb)					
118.1	22,900	22,900	22,900	22,900	22,900	22,900
137.8	22,900	22,900	22,900	22,900	22,900	22,900
157.5	22,900	22,900	22,900	22,900	22,900	15,800
177.2	22,900	22,900	15,800	15,800	15,800	8,300
196.9	15,800	8,300	8,300	8,300	#	#
216.5	8,300	#	#	#	#	#
236.2	#	#	#	#	Raising Not Permitted	
255.9	#					
Warning: Crane must remain in-line with crawlers when raising over end of blocked crawlers until operating radius is within 360 degree chart. <i>Crane tipping or structural damage can occur.</i>						

Explanation of Symbols



Jib No. 148
+
Boom No. B10:500



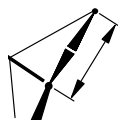
Fixed Position Counterweight



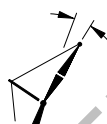
360 Degree Rating



Boom Length



Jib Length



Jib Offset Angle



Operating Radius
(see page 1)



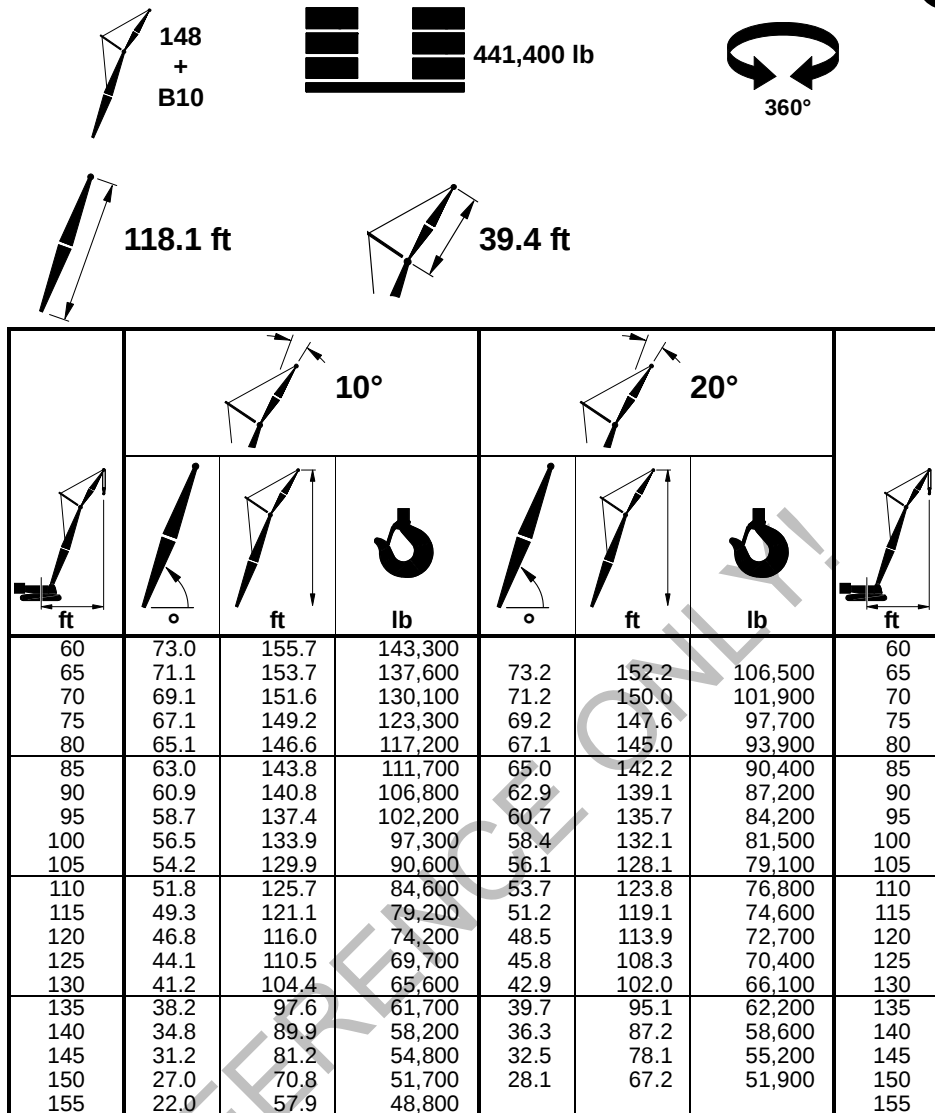
Boom Angle
(see page 1)

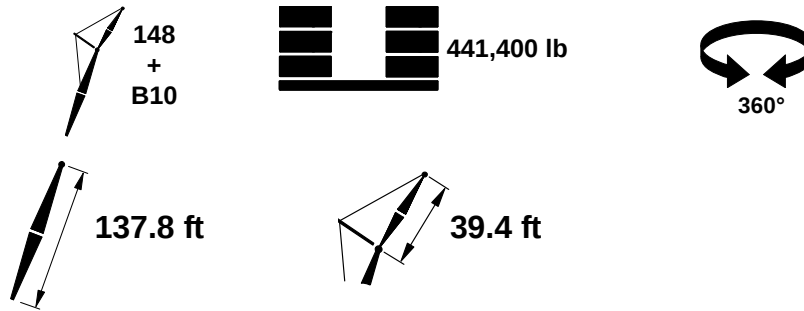


Jib Point Elevation
(see page 1)

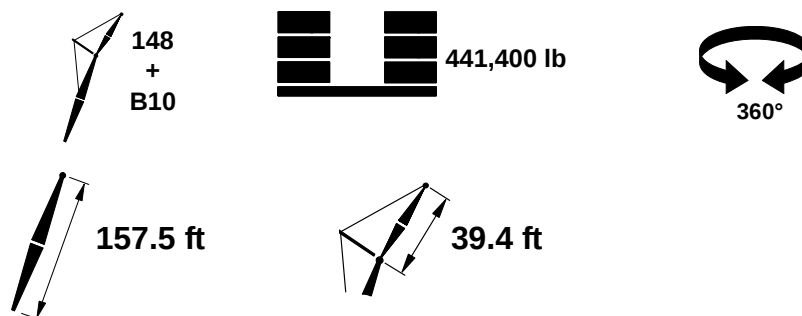


Lifting Capacities
(see page 1)

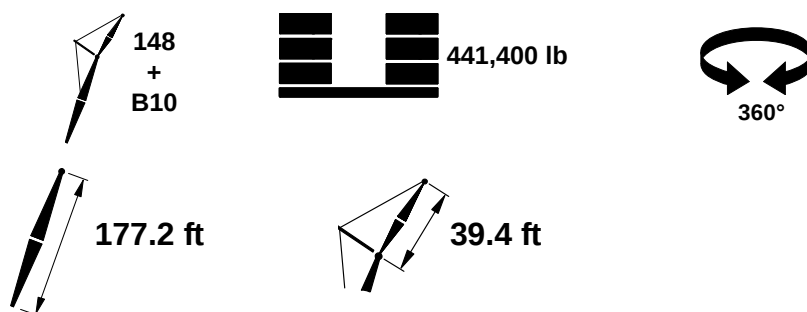




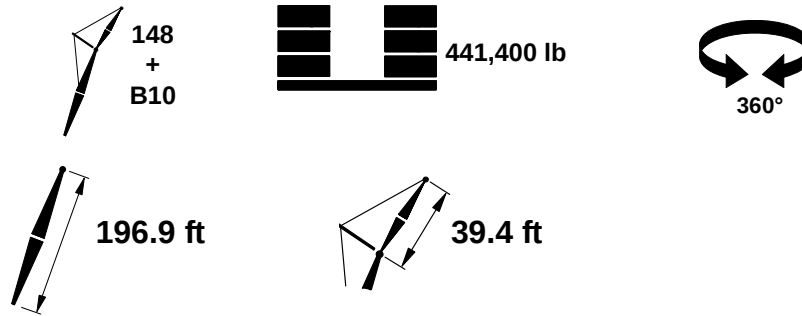
	10°			20°			
ft	o	ft	lb	o	ft	lb	ft
55	76.6	178.0	143,300	76.9	174.9	116,400	55
60	75.0	176.5	143,300	75.2	173.2	111,500	60
65	73.3	174.7	143,300	73.4	171.3	106,900	65
70	71.5	172.9	139,500	71.7	169.2	102,800	70
75	69.8	170.8	132,500	69.9	167.0	99,000	75
80	68.0	168.6	126,300	68.1	164.5	95,500	80
85	66.3	166.2	120,600	66.2	161.9	92,300	85
90	64.4	163.6	112,000	64.4	159.0	89,300	90
95	62.6	160.7	103,600	62.5	155.9	86,600	95
100	60.7	157.7	96,200	60.5	152.6	84,000	100
105	58.8	154.4	89,500	58.5	149.1	81,600	105
110	56.8	150.9	83,500	56.5	145.2	79,100	110
115	54.8	147.1	78,100	54.4	141.1	74,000	115
120	52.7	143.0	73,100	52.2	136.6	69,500	120
125	50.6	138.6	68,600	49.9	131.8	65,200	125
130	48.4	133.9	64,500	47.6	126.6	61,300	130
135	46.1	128.8	60,700	45.1	120.9	57,700	135
140	43.6	123.2	57,100	42.6	114.7	54,400	140
145	41.1	117.1	53,900	39.8	107.8	51,300	145
150	38.4	110.4	50,800	36.8	100.2	48,400	150
155	35.5	103.0	48,000	33.6	91.6	45,600	155
160	32.4	94.7	45,300	30.0	81.7	43,000	160
165	29.0	85.2	42,800				165
170	25.0	74.0	40,400				170
175	20.2	60.0	38,100				175



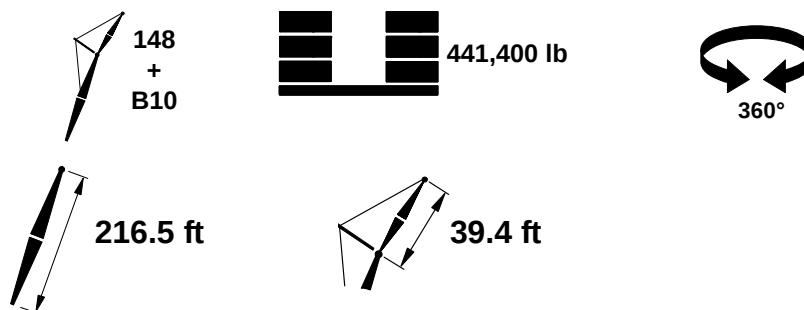
	10°			20°			
ft	o	ft	lb	o	ft	lb	ft
45	81.0	200.7	143,300				45
50	79.5	199.6	143,300				50
55	78.0	198.4	143,300	79.8	196.8	125,800	55
60	76.5	197.0	143,300	78.2	195.4	120,500	60
65	75.0	195.5	143,300	76.7	193.9	115,800	65
70	73.5	193.8	143,300	75.2	192.2	111,300	70
75	71.9	192.0	140,900	73.6	190.4	107,300	75
80	70.4	190.0	131,200	72.0	188.4	103,500	80
85	68.8	187.9	120,300	70.5	186.2	100,100	85
90	67.2	185.6	110,700	68.8	183.9	96,900	90
95	65.6	183.2	102,300	67.2	181.4	93,900	95
100	63.9	180.5	94,800	65.6	178.8	91,200	100
105	62.3	177.7	88,100	63.9	175.9	88,500	105
110	60.6	174.6	82,100	62.2	172.8	83,400	110
115	58.9	171.4	76,700	60.4	169.6	77,900	115
120	57.1	167.9	71,800	58.6	166.1	72,800	120
125	55.3	164.2	67,200	56.8	162.3	68,200	125
130	53.4	160.3	63,100	54.9	158.3	64,000	130
135	51.5	156.1	59,300	53.0	154.0	60,100	135
140	49.6	151.6	55,800	51.0	149.5	56,500	140
145	47.6	146.7	52,500	49.0	144.5	53,200	145
150	45.5	141.5	49,500	46.9	139.2	50,100	150
155	43.3	135.9	46,600	44.6	133.5	47,200	155
160	41.0	129.8	44,000	42.3	127.4	44,500	160
165	38.6	123.2	41,500	39.9	120.6	42,000	165
170	36.1	116.0	39,200	37.3	113.2	39,600	170
175	33.4	108.0	37,000	34.4	105.0	37,300	175
180	30.4	99.1	34,900	31.4	95.8	35,100	180
185	27.1	88.9	32,900	27.9	85.1	33,100	185
190	23.3	76.8	31,000				190
195	18.7	61.7	29,100				195



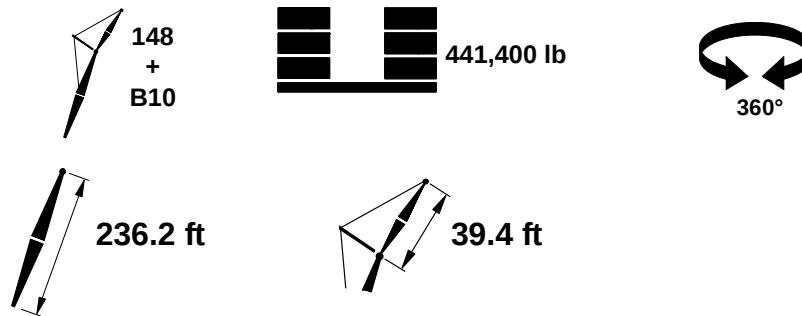
	10°			20°			
ft	o	ft	lb	o	ft	lb	ft
45	81.8	220.8	143,300				45
50	80.5	219.8	143,300	82.1	218.2	134,600	50
55	79.1	218.7	143,300	80.7	217.1	129,100	55
60	77.8	217.4	143,300	79.3	215.8	124,100	60
65	76.4	216.0	143,300	78.0	214.4	119,400	65
70	75.0	214.5	143,300	76.6	212.9	115,200	70
75	73.6	212.9	143,000	75.2	211.3	111,300	75
80	72.2	211.1	130,600	73.8	209.5	107,600	80
85	70.8	209.2	119,700	72.3	207.6	104,200	85
90	69.4	207.2	110,100	70.9	205.5	101,000	90
95	68.0	205.0	101,600	69.5	203.3	98,000	95
100	66.5	202.6	94,200	68.0	200.9	95,300	100
105	65.0	200.1	87,500	66.5	198.4	88,900	105
110	63.5	197.4	81,400	65.0	195.7	82,800	110
115	62.0	194.6	76,000	63.5	192.8	77,300	115
120	60.5	191.6	71,100	61.9	189.7	72,200	120
125	58.9	188.4	66,500	60.3	186.5	67,600	125
130	57.3	185.0	62,400	58.7	183.0	63,400	130
135	55.7	181.3	58,600	57.1	179.4	59,500	135
140	54.0	177.5	55,100	55.4	175.5	56,000	140
145	52.3	173.4	51,800	53.7	171.3	52,600	145
150	50.6	169.1	48,800	51.9	166.9	49,600	150
155	48.8	164.4	46,000	50.1	162.3	46,700	155
160	46.9	159.5	43,300	48.2	157.3	44,000	160
165	45.0	154.2	40,900	46.3	151.9	41,500	165
170	43.0	148.6	38,600	44.2	146.2	39,100	170
175	41.0	142.6	36,400	42.1	140.0	36,800	175
180	38.8	136.0	34,300	39.9	133.4	34,700	180
185	36.5	129.0	32,400	37.6	126.2	32,700	185
190	34.1	121.2	30,500	35.1	118.2	30,800	190
195	31.5	112.7	28,700	32.4	109.4	29,000	195
200	28.6	103.1	27,100	29.5	99.5	27,300	200
205	25.5	92.2	25,400				205
210	21.8	79.4	23,900				210
215	17.4	63.2	22,400				215



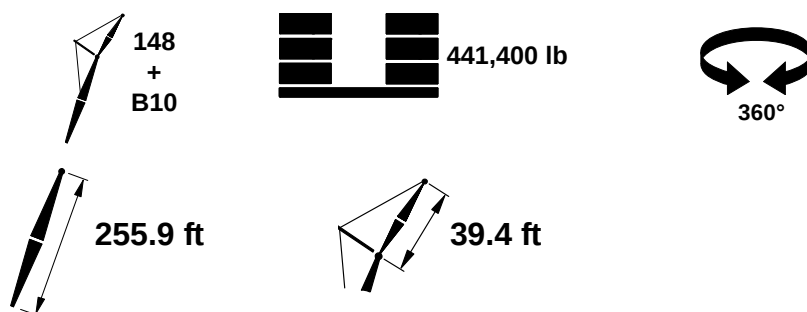
	10°			20°			
ft	o	ft	lb	o	ft	lb	ft
38	84.2	241.9	143,300				38
40	83.7	241.6	143,300				40
45	82.5	240.8	143,300	84.0	239.1	140,100	45
50	81.3	239.9	143,300	82.7	238.2	137,200	50
55	80.0	238.8	143,300	81.5	237.2	131,900	55
60	78.8	237.7	143,300	80.3	236.1	127,100	60
65	77.6	236.4	143,300	79.0	234.8	122,700	65
70	76.3	235.1	142,800	77.7	233.4	118,600	70
75	75.0	233.6	141,900	76.5	231.9	114,800	75
80	73.8	232.0	129,200	75.2	230.3	111,200	80
85	72.5	230.3	118,200	73.9	228.6	107,800	85
90	71.2	228.4	108,600	72.6	226.7	104,700	90
95	69.9	226.4	100,100	71.3	224.7	101,800	95
100	68.6	224.3	92,600	70.0	222.5	94,400	100
105	67.3	222.0	85,900	68.6	220.3	87,500	105
110	65.9	219.6	79,900	67.3	217.9	81,400	110
115	64.6	217.1	74,400	65.9	215.3	75,800	115
120	63.2	214.4	69,500	64.5	212.6	70,800	120
125	61.8	211.5	64,900	63.1	209.7	66,200	125
130	60.4	208.5	60,800	61.7	206.6	61,900	130
135	59.0	205.3	57,000	60.2	203.4	58,100	135
140	57.5	202.0	53,500	58.8	200.0	54,500	140
145	56.0	198.4	50,200	57.3	196.4	51,100	145
150	54.5	194.6	47,200	55.7	192.6	48,000	150
155	53.0	190.7	44,300	54.2	188.6	45,200	155
160	51.4	186.5	41,700	52.6	184.3	42,500	160
165	49.8	182.0	39,200	51.0	179.8	40,000	165
170	48.1	177.3	36,900	49.3	175.1	37,600	170
175	46.4	172.3	34,700	47.5	170.0	35,400	175
180	44.6	167.0	32,700	45.7	164.6	33,300	180
185	42.8	161.3	30,800	43.9	158.9	31,300	185
190	40.9	155.3	28,900	42.0	152.7	29,400	190
195	38.9	148.8	27,200	40.0	146.2	27,600	195
200	36.9	141.9	25,500	37.8	139.0	25,900	200
205	34.7	134.3	23,900	35.6	131.3	24,300	205
210	32.4	126.1	22,400	33.2	122.9	22,700	210
215	29.8	117.0	21,000	30.6	113.6	21,200	215
220	27.1	106.9	19,600	27.8	103.1	19,800	220
225	24.1	95.3	18,300				225
230	20.5	81.7	17,000				230



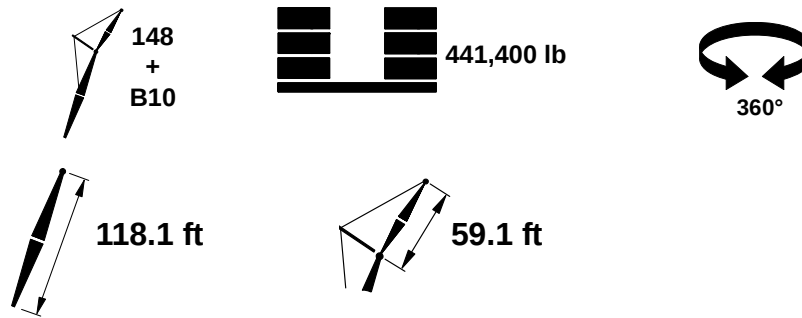
	10°			20°			
ft	o	ft	lb	o	ft	lb	ft
38	84.7	261.7	143,300				38
40	84.2	261.4	143,300				40
45	83.1	260.7	143,300	84.5	259.1	138,700	45
50	82.0	259.9	143,300	83.3	258.2	137,800	50
55	80.8	258.9	143,300	82.2	257.3	134,300	55
60	79.7	257.9	143,000	81.0	256.2	129,700	60
65	78.5	256.7	142,400	79.9	255.1	125,500	65
70	77.4	255.5	141,800	78.7	253.8	121,500	70
75	76.2	254.1	141,200	77.5	252.4	117,800	75
80	75.1	252.6	128,600	76.4	250.9	114,400	80
85	73.9	251.0	117,500	75.2	249.3	111,000	85
90	72.7	249.4	107,900	74.0	247.6	108,000	90
95	71.5	247.5	99,400	72.8	245.8	101,400	95
100	70.3	245.6	91,900	71.6	243.9	93,700	100
105	69.1	243.6	85,200	70.4	241.8	86,900	105
110	67.9	241.4	79,100	69.2	239.6	80,700	110
115	66.7	239.1	73,700	67.9	237.3	75,200	115
120	65.4	236.6	68,700	66.7	234.8	70,100	120
125	64.2	234.1	64,200	65.4	232.2	65,500	125
130	62.9	231.3	60,000	64.1	229.5	61,300	130
135	61.6	228.5	56,200	62.8	226.6	57,400	135
140	60.3	225.5	52,700	61.5	223.6	53,800	140
145	59.0	222.3	49,400	60.2	220.4	50,500	145
150	57.7	219.0	46,400	58.8	217.0	47,400	150
155	56.3	215.4	43,600	57.5	213.4	44,500	155
160	54.9	211.8	40,900	56.1	209.7	41,800	160
165	53.5	207.9	38,500	54.6	205.8	39,300	165
170	52.1	203.8	36,200	53.2	201.7	36,900	170
175	50.6	199.5	34,000	51.7	197.3	34,700	175
180	49.1	194.9	31,900	50.2	192.7	32,600	180
185	47.5	190.1	30,000	48.6	187.9	30,600	185
190	45.9	185.1	28,200	47.0	182.7	28,700	190
195	44.3	179.7	26,400	45.3	177.3	27,000	195
200	42.6	174.1	24,800	43.6	171.6	25,300	200
205	40.9	168.0	23,200	41.8	165.4	23,700	205
210	39.1	161.6	21,700	40.0	158.9	22,100	210
215	37.2	154.8	20,300	38.1	151.9	20,700	215
220	35.2	147.4	18,900	36.0	144.4	19,300	220
225	33.1	139.4	17,600	33.9	136.2	17,900	225
230	30.8	130.7	16,400	31.6	127.3	16,600	230
235	28.4	121.1	15,200	29.1	117.4	15,400	235
240	25.8	110.4	14,000	26.4	106.3	14,200	240
245	22.8	98.2	12,900				245
250	19.4	83.7	11,600				250



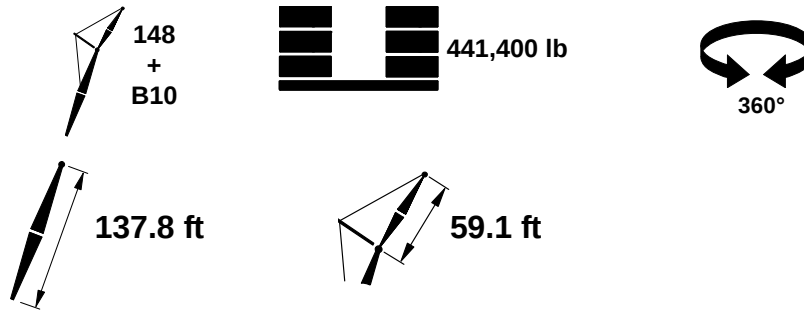
	10°			20°			
ft	o	ft	lb	o	ft	lb	ft
40	84.6	281.3	143,300				40
45	83.6	280.6	143,300	84.9	278.9	134,300	45
50	82.5	279.8	142,700	83.8	278.2	133,200	50
55	81.5	278.9	142,000	82.7	277.3	132,100	55
60	80.4	278.0	141,400	81.7	276.3	131,100	60
65	79.4	276.9	140,700	80.6	275.2	127,900	65
70	78.3	275.8	140,200	79.5	274.1	124,100	70
75	77.2	274.5	139,600	78.5	272.8	120,600	75
80	76.2	273.1	127,000	77.4	271.4	117,100	80
85	75.1	271.7	116,000	76.3	270.0	114,000	85
90	74.0	270.1	106,300	75.2	268.4	108,600	90
95	72.9	268.4	97,800	74.1	266.7	99,900	95
100	71.8	266.7	90,200	73.0	264.9	92,200	100
105	70.7	264.8	83,500	71.9	263.0	85,400	105
110	69.6	262.8	77,400	70.8	261.0	79,200	110
115	68.5	260.7	72,000	69.6	258.9	73,600	115
120	67.3	258.4	67,000	68.5	256.6	68,500	120
125	66.2	256.1	62,400	67.3	254.3	63,900	125
130	65.0	253.6	58,300	66.2	251.8	59,600	130
135	63.8	251.0	54,500	65.0	249.2	55,700	135
140	62.7	248.3	50,900	63.8	246.4	52,100	140
145	61.5	245.4	47,600	62.6	243.5	48,800	145
150	60.3	242.4	44,600	61.4	240.5	45,700	150
155	59.0	239.3	41,800	60.1	237.3	42,800	155
160	57.8	235.9	39,100	58.9	234.0	40,100	160
165	56.5	232.5	36,700	57.6	230.5	37,600	165
170	55.2	228.8	34,400	56.3	226.8	35,200	170
175	53.9	225.0	32,200	55.0	222.9	33,000	175
180	52.6	221.0	30,100	53.7	218.9	30,900	180
185	51.3	216.8	28,200	52.3	214.7	28,900	185
190	49.9	212.5	26,400	50.9	210.2	27,000	190
195	48.5	207.8	24,600	49.5	205.6	25,300	195
200	47.0	203.0	23,000	48.0	200.7	23,600	200
205	45.5	197.9	21,400	46.5	195.5	22,000	205
210	44.0	192.5	19,900	45.0	190.0	20,500	210
215	42.5	186.8	18,500	43.4	184.3	19,000	215
220	40.8	180.8	17,200	41.7	178.2	17,600	220
225	39.2	174.4	15,900	40.0	171.7	16,300	225
230	37.4	167.6	14,600	38.2	164.8	15,000	230
235	35.6	160.4	13,200	36.4	157.4	13,600	235
240	33.7	152.6	11,800	34.4	149.4	12,200	240
245	31.6	144.2	10,500	32.3	140.8	10,800	245
250	29.5	135.0	9,200	30.1	131.4	9,500	250
255	27.1	124.9	8,000	27.7	121.0	8,200	255
260	24.6	113.7	6,800				260



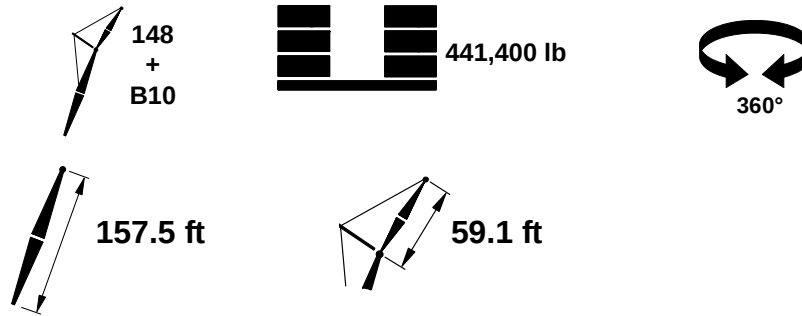
	10°			20°			
ft	o	ft	lb	o	ft	lb	ft
40	85.0	301.1	141,200				40
45	84.0	300.5	140,500				45
50	83.0	299.7	139,700	84.2	298.1	127,300	50
55	82.1	298.9	139,000	83.2	297.2	125,400	55
60	81.1	298.0	138,400	82.2	296.3	121,800	60
65	80.1	297.0	136,000	81.3	295.3	118,300	65
70	79.1	296.0	131,700	80.3	294.3	115,100	70
75	78.1	294.8	127,600	79.3	293.1	112,000	75
80	77.1	293.5	123,600	78.3	291.8	109,100	80
85	76.1	292.2	115,200	77.2	290.4	106,400	85
90	75.1	290.7	105,500	76.2	289.0	103,800	90
95	74.1	289.2	97,000	75.2	287.4	99,200	95
100	73.1	287.5	89,400	74.2	285.8	91,500	100
105	72.0	285.8	82,700	73.2	284.0	84,600	105
110	71.0	283.9	76,600	72.1	282.2	78,400	110
115	70.0	282.0	71,100	71.1	280.2	72,800	115
120	68.9	279.9	66,100	70.0	278.1	67,700	120
125	67.9	277.8	61,500	69.0	276.0	63,100	125
130	66.8	275.5	57,400	67.9	273.7	58,800	130
135	65.7	273.1	53,500	66.8	271.3	54,900	135
140	64.7	270.6	50,000	65.7	268.7	51,300	140
145	63.6	268.0	46,700	64.6	266.1	47,900	145
150	62.5	265.2	43,700	63.5	263.3	44,800	150
155	61.3	262.4	40,800	62.4	260.4	41,900	155
160	60.2	259.4	38,200	61.2	257.4	39,200	160
165	59.1	256.2	35,700	60.1	254.2	36,700	165
170	57.9	252.9	33,400	58.9	250.9	34,300	170
175	56.7	249.5	31,200	57.7	247.5	32,100	175
180	55.5	245.9	29,200	56.5	243.9	30,000	180
185	54.3	242.2	27,200	55.3	240.1	28,000	185
190	53.1	238.3	25,400	54.1	236.1	26,200	190
195	51.9	234.2	23,700	52.8	232.0	24,400	195
200	50.6	229.9	22,000	51.5	227.7	22,700	200
205	49.3	225.4	20,500	50.2	223.1	21,100	205
210	48.0	220.7	19,000	48.9	218.4	19,600	210
215	46.6	215.8	17,600	47.5	213.4	18,100	215
220	45.2	210.6	16,200	46.1	208.2	16,800	220
225	43.8	205.2	14,700	44.7	202.7	15,300	225
230	42.3	199.5	13,200	43.2	197.0	13,800	230
235	40.8	193.5	11,800	41.6	190.9	12,300	235
240	39.2	187.2	10,500	40.0	184.4	11,000	240
245	37.6	180.5	9,200	38.4	177.6	9,600	245
250	35.9	173.3	7,900	36.7	170.3	8,300	250
255	34.2	165.7	6,700	34.9	162.6	7,100	255



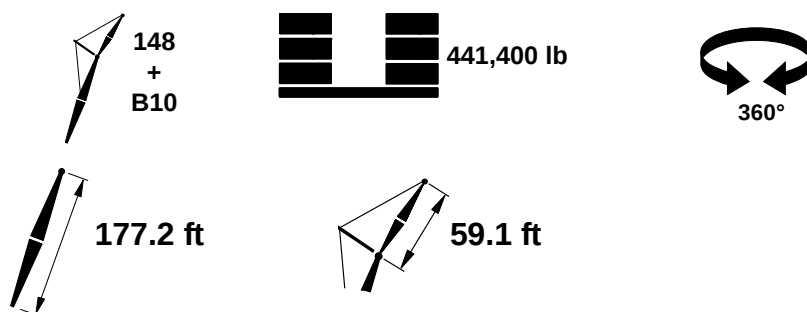
	10°			20°			
ft	o	ft	lb	o	ft	lb	ft
70	73.2	172.5	95,100				70
75	71.5	170.4	90,300	74.3	168.2	68,600	75
80	69.7	168.2	85,900	72.5	166.0	65,900	80
85	67.9	165.8	81,900	70.7	163.5	63,400	85
90	66.1	163.2	78,300	68.8	160.9	61,000	90
95	64.2	160.3	74,900	67.0	158.0	58,900	95
100	62.3	157.3	71,900	65.0	154.9	56,900	100
105	60.4	154.0	69,000	63.1	151.5	55,100	105
110	58.4	150.5	66,400	61.1	148.0	53,400	110
115	56.4	146.7	64,000	59.0	144.1	51,800	115
120	54.3	142.6	61,800	56.9	139.9	50,300	120
125	52.2	138.2	59,700	54.7	135.4	48,900	125
130	49.9	133.4	57,800	52.4	130.5	47,700	130
135	47.6	128.3	56,000	50.0	125.3	46,500	135
140	45.2	122.7	54,300	47.6	119.5	45,400	140
145	42.7	116.5	52,800	44.9	113.2	44,400	145
150	40.0	109.8	51,300	42.1	106.3	43,500	150
155	37.1	102.4	50,000	39.1	98.5	42,600	155
160	33.9	94.0	48,800	35.8	89.8	41,900	160
165	30.4	84.4	46,300	32.1	79.6	41,300	165
170	26.4	73.0	43,900				170
175	21.6	58.8	41,600				175



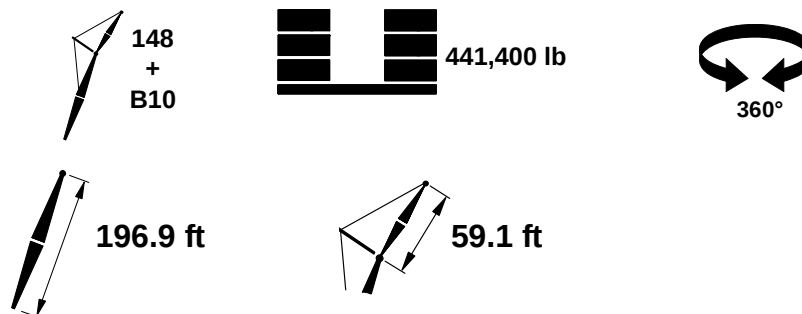
	10°			20°			
ft	o	ft	lb	o	ft	lb	ft
65	76.5	195.1	99,700				65
70	75.0	193.4	97,400	77.5	191.2	74,200	70
75	73.4	191.6	95,200	76.0	189.3	71,400	75
80	71.9	189.6	91,300	74.4	187.3	68,700	80
85	70.3	187.5	87,100	72.8	185.2	66,200	85
90	68.7	185.2	83,500	71.2	182.8	64,000	90
95	67.1	182.7	80,000	69.5	180.3	61,800	95
100	65.4	180.1	76,900	67.9	177.6	59,900	100
105	63.7	177.2	74,000	66.2	174.7	58,000	105
110	62.0	174.2	71,300	64.4	171.7	56,300	110
115	60.3	170.9	68,800	62.7	168.4	54,700	115
120	58.5	167.5	66,500	60.9	164.8	53,200	120
125	56.7	163.8	64,300	59.1	161.1	51,800	125
130	54.9	159.8	62,300	57.2	157.0	50,500	130
135	53.0	155.6	60,400	55.2	152.7	49,300	135
140	51.0	151.0	58,700	53.2	148.1	48,100	140
145	49.0	146.2	56,400	51.2	143.1	47,000	145
150	46.9	140.9	53,300	49.0	137.8	46,000	150
155	44.7	135.3	50,500	46.8	132.0	45,100	155
160	42.4	129.2	47,800	44.4	125.7	44,200	160
165	40.0	122.6	45,300	41.9	118.9	43,400	165
170	37.4	115.3	42,900	39.3	111.4	42,700	170
175	34.7	107.3	40,700	36.4	103.0	41,100	175
180	31.7	98.3	38,500	33.3	93.5	38,900	180
185	28.4	87.9	36,500	29.7	82.6	36,800	185
190	24.5	75.7	34,600				190
195	19.8	60.3	32,700				195



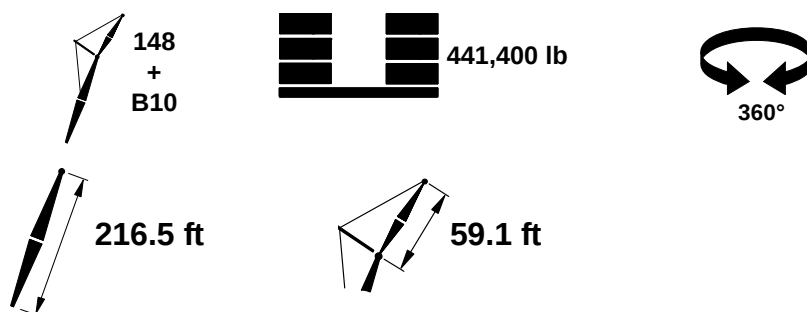
	10°			20°			
ft	o	ft	lb	o	ft	lb	ft
55	80.5	218.2	106,000				55
60	79.1	217.0	103,600				60
65	77.8	215.6	101,300	80.1	213.3	79,500	65
70	76.4	214.1	99,100	78.7	211.8	76,500	70
75	75.0	212.5	97,100	77.3	210.1	73,700	75
80	73.6	210.7	95,100	75.9	208.3	71,100	80
85	72.2	208.8	92,000	74.5	206.4	68,800	85
90	70.7	206.7	88,200	73.0	204.3	66,500	90
95	69.3	204.5	84,700	71.6	202.1	64,400	95
100	67.8	202.2	81,600	70.1	199.7	62,500	100
105	66.4	199.7	78,600	68.6	197.2	60,700	105
110	64.9	197.0	75,900	67.1	194.4	59,000	110
115	63.3	194.1	73,300	65.5	191.5	57,400	115
120	61.8	191.1	70,900	64.0	188.5	55,800	120
125	60.2	187.9	68,700	62.4	185.2	54,400	125
130	58.6	184.4	65,700	60.8	181.7	53,100	130
135	57.0	180.8	61,800	59.1	178.0	51,900	135
140	55.3	177.0	58,300	57.4	174.1	50,600	140
145	53.6	172.9	55,000	55.7	169.9	49,500	145
150	51.9	168.5	51,900	53.9	165.5	48,500	150
155	50.1	163.9	49,000	52.0	160.8	47,500	155
160	48.2	158.9	46,400	50.1	155.7	46,600	160
165	46.3	153.6	43,900	48.2	150.3	44,700	165
170	44.3	148.0	41,500	46.1	144.5	42,300	170
175	42.2	141.9	39,300	44.0	138.3	40,000	175
180	40.0	135.3	37,200	41.8	131.6	37,800	180
185	37.7	128.2	35,200	39.4	124.2	35,800	185
190	35.3	120.4	33,400	36.9	116.1	33,800	190
195	32.7	111.8	31,600	34.1	107.2	32,000	195
200	29.8	102.2	29,900	31.1	97.0	30,200	200
205	26.6	91.2	28,200				205
210	22.9	78.1	26,600				210



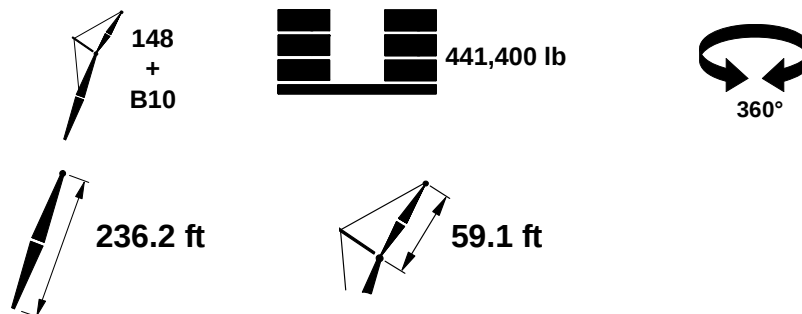
	10°			20°			
ft	o	ft	lb	o	ft	lb	ft
50	82.5	239.4	109,000				50
55	81.3	238.4	106,700				55
60	80.1	237.2	104,500	82.2	234.9	84,500	60
65	78.8	236.0	102,400	81.0	233.6	81,400	65
70	77.6	234.6	100,400	79.7	232.2	78,500	70
75	76.3	233.1	98,500	78.4	230.7	75,800	75
80	75.0	231.5	96,600	77.2	229.1	73,300	80
85	73.7	229.8	94,800	75.9	227.4	70,900	85
90	72.4	227.9	92,500	74.6	225.5	68,700	90
95	71.1	225.9	89,100	73.2	223.5	66,700	95
100	69.8	223.8	85,800	71.9	221.3	64,800	100
105	68.5	221.6	82,800	70.6	219.0	63,000	105
110	67.2	219.1	80,100	69.2	216.6	61,300	110
115	65.8	216.6	77,500	67.8	214.0	59,700	115
120	64.4	213.9	73,600	66.4	211.3	58,200	120
125	63.0	211.0	69,100	65.0	208.4	56,800	125
130	61.6	208.0	64,900	63.6	205.3	55,400	130
135	60.2	204.8	61,000	62.1	202.1	54,200	135
140	58.7	201.4	57,500	60.6	198.6	53,000	140
145	57.2	197.9	54,200	59.1	195.0	51,900	145
150	55.7	194.1	51,100	57.6	191.2	50,800	150
155	54.2	190.1	48,300	56.0	187.1	49,400	155
160	52.6	185.9	45,600	54.4	182.8	46,600	160
165	50.9	181.4	43,100	52.8	178.3	44,100	165
170	49.3	176.7	40,800	51.1	173.5	41,700	170
175	47.6	171.7	38,600	49.3	168.4	39,400	175
180	45.8	166.3	36,500	47.5	162.9	37,300	180
185	44.0	160.7	34,500	45.6	157.1	35,200	185
190	42.1	154.6	32,700	43.7	150.9	33,300	190
195	40.1	148.1	30,900	41.6	144.2	31,500	195
200	38.0	141.1	29,200	39.5	137.0	29,700	200
205	35.8	133.5	27,600	37.2	129.2	28,100	205
210	33.4	125.2	26,100	34.8	120.6	26,500	210
215	30.9	116.1	24,600	32.1	111.0	24,900	215
220	28.2	105.9	23,200	29.2	100.3	23,400	220
225	25.1	94.2	21,800				225
230	21.5	80.3	20,500				230



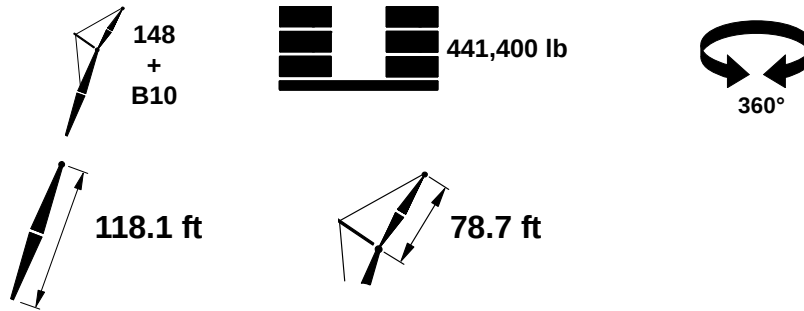
	10°			20°			
ft	o	ft	lb	o	ft	lb	ft
45	84.2	260.2	111,100				45
50	83.1	259.4	109,000				50
55	82.0	258.5	106,900	84.0	256.1	89,100	55
60	80.8	257.4	105,000	82.9	255.0	85,900	60
65	79.7	256.3	103,000	81.7	253.8	82,900	65
70	78.5	255.0	101,200	80.5	252.6	80,200	70
75	77.4	253.6	99,400	79.4	251.2	77,600	75
80	76.2	252.2	97,700	78.2	249.7	75,200	80
85	75.0	250.6	96,000	77.0	248.1	72,900	85
90	73.9	248.9	94,500	75.8	246.4	70,800	90
95	72.7	247.1	92,900	74.6	244.5	68,800	95
100	71.5	245.1	89,800	73.4	242.6	66,900	100
105	70.3	243.1	86,800	72.2	240.5	65,100	105
110	69.0	240.9	82,600	70.9	238.3	63,500	110
115	67.8	238.6	77,100	69.7	236.0	61,900	115
120	66.6	236.1	72,100	68.4	233.5	60,400	120
125	65.3	233.5	67,500	67.2	230.9	59,000	125
130	64.0	230.8	63,300	65.9	228.1	57,700	130
135	62.7	228.0	59,400	64.6	225.2	56,400	135
140	61.4	224.9	55,900	63.3	222.2	55,200	140
145	60.1	221.7	52,600	61.9	218.9	54,000	145
150	58.8	218.4	49,500	60.5	215.6	50,900	150
155	57.4	214.9	46,600	59.2	212.0	47,900	155
160	56.0	211.2	44,000	57.7	208.2	45,200	160
165	54.6	207.3	41,500	56.3	204.3	42,600	165
170	53.1	203.2	39,100	54.8	200.1	40,200	170
175	51.7	198.9	36,900	53.3	195.7	37,900	175
180	50.2	194.3	34,900	51.8	191.1	35,800	180
185	48.6	189.5	32,900	50.2	186.2	33,800	185
190	47.0	184.4	31,000	48.6	181.0	31,800	190
195	45.4	179.1	29,300	46.9	175.5	30,000	195
200	43.7	173.4	27,600	45.2	169.7	28,300	200
205	41.9	167.3	26,000	43.4	163.5	26,600	205
210	40.1	160.9	24,500	41.5	156.9	25,100	210
215	38.2	154.0	23,000	39.6	149.8	23,600	215
220	36.2	146.5	21,700	37.5	142.2	22,100	220
225	34.1	138.5	20,300	35.3	133.9	20,700	225
230	31.8	129.7	19,100	33.0	124.8	19,400	230
235	29.4	120.1	17,800	30.4	114.7	18,100	235
240	26.7	109.3	16,600				240
245	23.7	96.9	15,500				245
250	20.3	82.2	14,300				250



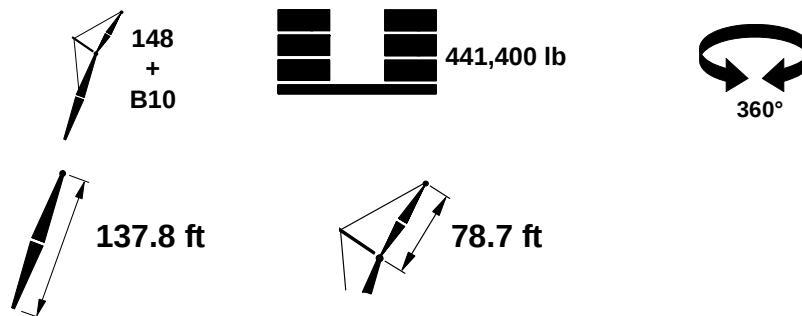
	10°			20°			
ft	o	ft	lb	o	ft	lb	ft
45	84.7	280.1	110,600				45
50	83.6	279.3	108,700				50
55	82.6	278.5	106,800	84.5	276.0	90,200	55
60	81.5	277.5	105,000	83.4	275.0	87,100	60
65	80.4	276.4	103,200	82.3	274.0	84,200	65
70	79.4	275.3	101,600	81.2	272.8	81,600	70
75	78.3	274.0	100,000	80.2	271.5	79,200	75
80	77.2	272.6	98,300	79.1	270.2	76,800	80
85	76.1	271.2	96,900	78.0	268.7	74,700	85
90	75.1	269.6	95,400	76.9	267.1	72,600	90
95	74.0	267.9	94,000	75.8	265.4	70,700	95
100	72.9	266.2	92,600	74.7	263.6	68,800	100
105	71.7	264.3	88,000	73.5	261.7	67,000	105
110	70.6	262.3	81,800	72.4	259.7	65,400	110
115	69.5	260.2	76,300	71.3	257.5	63,900	115
120	68.4	257.9	71,300	70.1	255.3	62,400	120
125	67.2	255.6	66,700	69.0	252.9	61,000	125
130	66.1	253.1	62,500	67.8	250.4	59,600	130
135	64.9	250.5	58,600	66.6	247.8	58,400	135
140	63.7	247.7	55,000	65.4	245.0	56,700	140
145	62.5	244.9	51,700	64.2	242.1	53,300	145
150	61.3	241.9	48,700	63.0	239.0	50,100	150
155	60.1	238.7	45,800	61.7	235.8	47,200	155
160	58.8	235.4	43,100	60.5	232.5	44,400	160
165	57.6	231.9	40,600	59.2	228.9	41,900	165
170	56.3	228.3	38,300	57.9	225.3	39,500	170
175	55.0	224.4	36,100	56.6	221.4	37,200	175
180	53.6	220.4	34,000	55.2	217.3	35,100	180
185	52.3	216.2	32,100	53.8	213.1	33,000	185
190	50.9	211.8	30,200	52.4	208.6	31,100	190
195	49.5	207.2	28,400	51.0	203.9	29,300	195
200	48.0	202.3	26,800	49.5	198.9	27,600	200
205	46.5	197.2	25,200	48.0	193.7	26,000	205
210	45.0	191.8	23,700	46.4	188.2	24,400	210
215	43.4	186.1	22,300	44.8	182.4	22,900	215
220	41.8	180.0	20,900	43.2	176.2	21,500	220
225	40.1	173.6	19,600	41.4	169.6	20,100	225
230	38.4	166.8	18,300	39.6	162.6	18,800	230
235	36.5	159.5	17,100	37.7	155.1	17,600	235
240	34.6	151.7	15,900	35.8	147.0	16,300	240
245	32.6	143.2	14,800	33.6	138.3	15,200	245
250	30.4	134.0	13,700	31.4	128.7	14,000	250
255	28.0	123.8	12,700	28.9	118.0	12,900	255
260	25.4	112.5	11,500				260
265	22.5	99.4	10,300				265
270	19.2	83.9	9,100				270



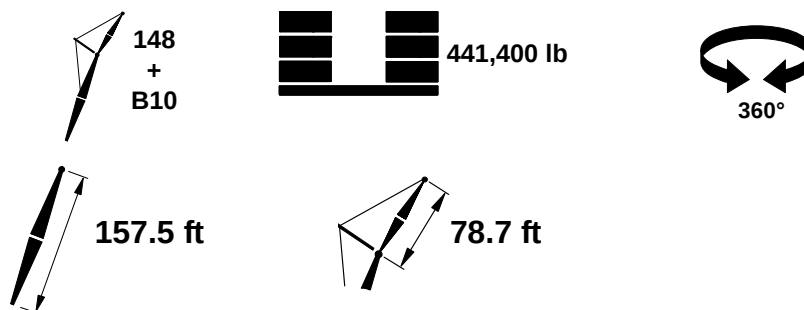
	10°			20°			
ft	o	ft	lb	o	ft	lb	ft
50	84.0	299.2	104,500				50
55	83.1	298.4	102,900	84.8	296.0	90,700	55
60	82.1	297.5	101,300	83.8	295.0	89,100	60
65	81.1	296.5	99,800	82.8	294.0	86,300	65
70	80.1	295.5	98,400	81.8	293.0	83,800	70
75	79.1	294.3	97,000	80.8	291.8	81,300	75
80	78.1	293.0	95,500	79.8	290.5	79,000	80
85	77.1	291.7	94,200	78.8	289.1	76,900	85
90	76.1	290.2	92,900	77.8	287.7	74,800	90
95	75.1	288.7	91,700	76.8	286.1	72,900	95
100	74.1	287.0	90,500	75.7	284.4	71,100	100
105	73.0	285.3	86,400	74.7	282.7	69,400	105
110	72.0	283.4	80,200	73.7	280.8	67,700	110
115	71.0	281.5	74,700	72.6	278.8	66,200	115
120	69.9	279.4	69,600	71.6	276.7	64,700	120
125	68.8	277.2	65,000	70.5	274.6	63,300	125
130	67.8	275.0	60,800	69.4	272.3	62,000	130
135	66.7	272.6	56,900	68.3	269.8	58,800	135
140	65.6	270.1	53,300	67.2	267.3	55,200	140
145	64.5	267.4	50,000	66.1	264.7	51,700	145
150	63.4	264.7	46,900	65.0	261.9	48,600	150
155	62.3	261.8	44,100	63.9	259.0	45,600	155
160	61.2	258.8	41,400	62.7	255.9	42,900	160
165	60.0	255.6	38,900	61.6	252.7	40,300	165
170	58.9	252.3	36,500	60.4	249.4	37,900	170
175	57.7	248.9	34,300	59.2	245.9	35,600	175
180	56.5	245.3	32,300	58.0	242.3	33,400	180
185	55.3	241.6	30,300	56.8	238.5	31,400	185
190	54.0	237.6	28,400	55.5	234.5	29,500	190
195	52.8	233.5	26,700	54.2	230.3	27,700	195
200	51.5	229.2	25,000	52.9	226.0	26,000	200
205	50.2	224.7	23,400	51.6	221.4	24,300	205
210	48.9	220.0	21,900	50.3	216.6	22,800	210
215	47.5	215.1	20,500	48.9	211.6	21,300	215
220	46.1	209.9	19,100	47.5	206.4	19,900	220
225	44.7	204.5	17,800	46.0	200.8	18,500	225
230	43.2	198.8	16,600	44.5	195.0	17,200	230
235	41.7	192.7	15,400	43.0	188.8	16,000	235
240	40.1	186.4	14,200	41.4	182.3	14,800	240
245	38.5	179.6	12,800	39.7	175.4	13,500	245
250	36.8	172.4	11,600	37.9	168.0	12,200	250
255	35.0	164.8	10,300	36.1	160.2	10,900	255
260	33.2	156.6	9,100	34.2	151.7	9,600	260
265	31.2	147.7	8,000	32.1	142.5	8,400	265
270	29.1	138.0	6,900	30.0	132.4	7,200	270



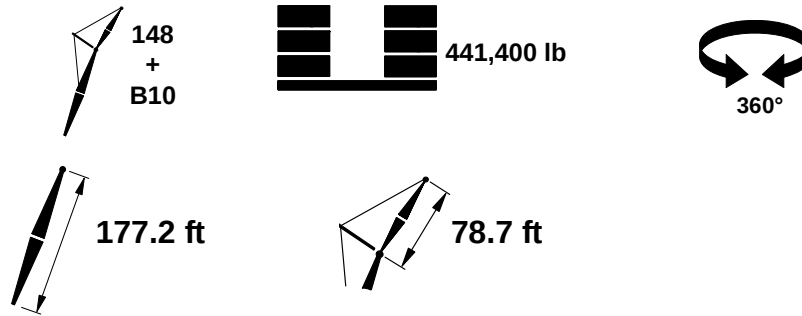
	10°			20°			
ft	o	ft	lb	o	ft	lb	ft
75	74.4	191.6	71,100				75
80	72.8	189.6	69,400				80
85	71.3	187.5	67,400	74.7	185.0	51,400	85
90	69.7	185.2	64,300	73.1	182.6	49,400	90
95	68.0	182.7	61,400	71.5	180.1	47,600	95
100	66.4	180.1	58,700	69.8	177.4	45,900	100
105	64.7	177.2	56,300	68.1	174.5	44,300	105
110	63.0	174.2	54,100	66.4	171.5	42,800	110
115	61.3	170.9	52,000	64.6	168.1	41,300	115
120	59.5	167.5	50,100	62.8	164.6	40,100	120
125	57.7	163.8	48,300	61.0	160.8	38,800	125
130	55.9	159.8	46,600	59.1	156.8	37,700	130
135	54.0	155.6	45,100	57.1	152.5	36,700	135
140	52.0	151.0	43,600	55.1	147.8	35,700	140
145	50.0	146.2	42,300	53.1	142.9	34,700	145
150	47.9	141.0	41,000	50.9	137.5	33,800	150
155	45.7	135.3	39,700	48.7	131.7	33,000	155
160	43.4	129.2	38,600	46.3	125.5	32,300	160
165	41.0	122.6	37,500	43.8	118.6	31,600	165
170	38.4	115.3	36,600	41.1	111.1	30,900	170
175	35.7	107.3	35,600	38.3	102.7	30,300	175
180	32.7	98.3	34,800	35.1	93.1	29,800	180
185	29.4	88.0	34,000	31.6	82.1	29,300	185
190	25.5	75.7	33,300				190
195	20.8	60.3	32,700				195

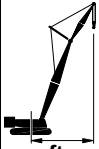


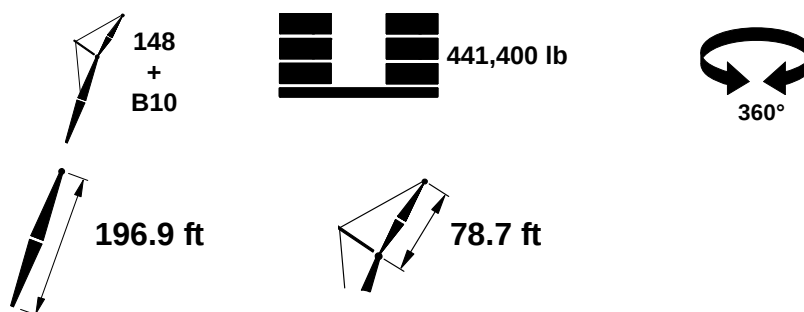
	10°			20°			
ft	o	ft	lb	o	ft	lb	ft
70	77.3	214.1	74,400				70
75	75.9	212.5	72,700				75
80	74.5	210.7	71,000	77.7	208.1	55,500	80
85	73.1	208.8	69,500	76.2	206.1	53,400	85
90	71.6	206.7	68,000	74.8	204.0	51,400	90
95	70.2	204.5	65,100	73.3	201.8	49,600	95
100	68.7	202.2	62,500	71.8	199.4	48,000	100
105	67.3	199.6	60,000	70.3	196.9	46,400	105
110	65.8	197.0	57,700	68.8	194.1	44,900	110
115	64.2	194.1	55,600	67.3	191.2	43,500	115
120	62.7	191.1	53,600	65.7	188.2	42,200	120
125	61.1	187.9	51,700	64.1	184.9	41,000	125
130	59.5	184.4	50,000	62.5	181.4	39,800	130
135	57.9	180.8	48,400	60.8	177.7	38,700	135
140	56.2	176.9	46,900	59.1	173.8	37,700	140
145	54.5	172.8	45,500	57.4	169.6	36,800	145
150	52.8	168.5	44,200	55.6	165.2	35,800	150
155	51.0	163.8	42,900	53.7	160.4	35,000	155
160	49.1	158.9	41,600	51.8	155.4	34,200	160
165	47.2	153.6	40,600	49.9	149.9	33,500	165
170	45.2	148.0	39,500	47.8	144.1	32,700	170
175	43.1	141.9	38,400	45.7	137.9	32,100	175
180	40.9	135.3	37,500	43.4	131.1	31,400	180
185	38.6	128.2	36,600	41.1	123.7	30,900	185
190	36.2	120.4	35,800	38.5	115.6	30,300	190
195	33.6	111.8	34,800	35.8	106.6	29,800	195
200	30.7	102.2	33,000	32.7	96.4	29,400	200
205	27.5	91.1	31,400	29.3	84.6	29,100	205
210	23.8	78.1	29,800				210
215	19.2	61.5	28,200				215

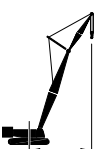
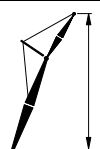
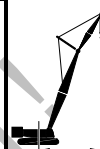


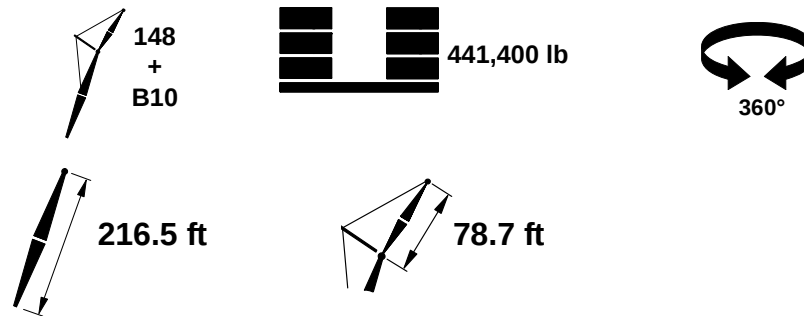
	10°			20°			
ft	o	ft	lb	o	ft	lb	ft
60	80.9	237.2	78,600				60
65	79.6	236.0	77,000				65
70	78.4	234.6	75,300				70
75	77.1	233.1	73,800	80.0	230.4	59,400	75
80	75.8	231.5	72,200	78.8	228.8	57,200	80
85	74.6	229.8	70,800	77.5	227.0	55,100	85
90	73.3	227.9	69,400	76.1	225.1	53,200	90
95	72.0	225.9	68,100	74.8	223.1	51,500	95
100	70.6	223.8	65,900	73.5	221.0	49,800	100
105	69.3	221.5	63,400	72.1	218.7	48,200	105
110	68.0	219.1	61,100	70.8	216.2	46,700	110
115	66.6	216.6	58,900	69.4	213.6	45,400	115
120	65.2	213.9	56,900	68.0	210.9	44,100	120
125	63.8	211.0	55,000	66.6	208.0	42,800	125
130	62.4	208.0	53,200	65.2	204.9	41,800	130
135	61.0	204.8	51,500	63.7	201.7	40,600	135
140	59.5	201.4	50,000	62.2	198.2	39,600	140
145	58.0	197.8	48,500	60.7	194.6	38,700	145
150	56.5	194.0	47,100	59.1	190.8	37,700	150
155	55.0	190.0	45,800	57.6	186.7	36,900	155
160	53.4	185.8	44,500	56.0	182.4	36,000	160
165	51.8	181.4	43,400	54.3	177.8	35,200	165
170	50.1	176.6	42,200	52.6	173.0	34,500	170
175	48.4	171.6	41,100	50.8	167.9	33,800	175
180	46.6	166.3	39,000	49.0	162.4	33,100	180
185	44.8	160.6	37,000	47.2	156.6	32,500	185
190	42.9	154.5	35,100	45.2	150.4	32,000	190
195	40.9	148.0	33,400	43.1	143.7	31,400	195
200	38.8	141.0	31,700	41.0	136.4	30,900	200
205	36.6	133.5	30,100	38.7	128.5	30,400	205
210	34.2	125.2	28,500	36.3	119.9	29,100	210
215	31.7	116.0	27,100	33.6	110.3	27,500	215
220	29.0	105.8	25,600	30.7	99.4	26,000	220
225	25.9	94.1	24,300				225
230	22.3	80.1	22,900				230



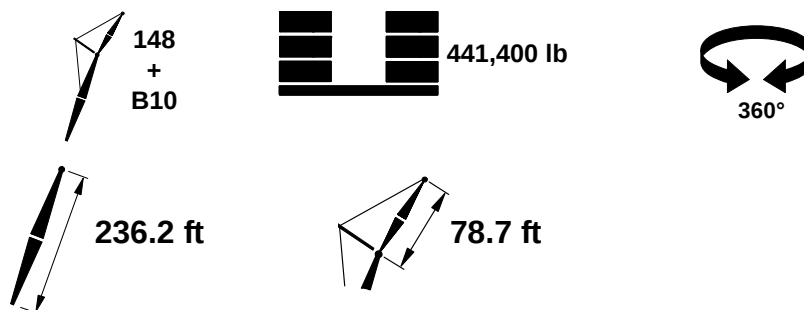
 ft	10° 			20° 			 ft
	 o	ft	lb 	 o	ft	lb 	
60	81.6	257.3	79,100				60
65	80.4	256.2	77,500				65
70	79.3	254.9	76,000	82.0	252.2	63,000	70
75	78.1	253.6	74,600	80.8	250.8	60,800	75
80	77.0	252.1	73,200	79.7	249.3	58,600	80
85	75.8	250.5	71,800	78.5	247.7	56,600	85
90	74.6	248.8	70,600	77.3	246.0	54,800	90
95	73.4	247.0	69,300	76.1	244.1	53,000	95
100	72.2	245.1	68,100	74.9	242.2	51,400	100
105	71.0	243.0	66,500	73.6	240.1	49,900	105
110	69.8	240.8	64,200	72.4	237.9	48,400	110
115	68.6	238.5	62,000	71.2	235.5	47,100	115
120	67.3	236.1	59,900	69.9	233.1	45,800	120
125	66.1	233.5	58,000	68.6	230.4	44,600	125
130	64.8	230.8	56,200	67.3	227.7	43,400	130
135	63.5	227.9	54,500	66.0	224.8	42,400	135
140	62.2	224.9	52,900	64.7	221.7	41,300	140
145	60.9	221.7	51,300	63.3	218.5	40,400	145
150	59.5	218.3	50,000	62.0	215.1	39,400	150
155	58.1	214.8	48,600	60.6	211.5	38,600	155
160	56.8	211.1	47,300	59.2	207.7	37,700	160
165	55.3	207.2	44,800	57.7	203.8	36,900	165
170	53.9	203.1	42,400	56.3	199.6	36,200	170
175	52.4	198.8	40,200	54.8	195.2	35,500	175
180	50.9	194.2	38,100	53.2	190.5	34,800	180
185	49.3	189.4	36,200	51.6	185.6	34,100	185
190	47.8	184.4	34,300	50.0	180.4	33,500	190
195	46.1	179.0	32,500	48.3	175.0	32,900	195
200	44.4	173.3	30,900	46.6	169.1	31,700	200
205	42.7	167.2	29,300	44.8	162.9	30,100	205
210	40.8	160.8	27,700	42.9	156.3	28,500	210
215	38.9	153.9	26,300	40.9	149.1	27,000	215
220	36.9	146.4	24,900	38.9	141.4	25,500	220
225	34.8	138.4	23,600	36.7	133.1	24,100	225
230	32.5	129.6	22,300	34.3	123.9	22,800	230
235	30.1	120.0	21,000	31.7	113.7	21,400	235
240	27.4	109.1	19,900	28.9	102.2	20,200	240
245	24.5	96.7	18,700				245
250	21.0	82.0	17,500				250



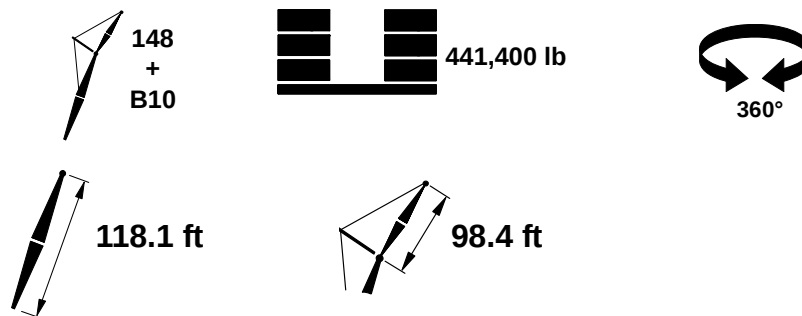
	10°			20°			
							
	ft	o	ft	lb	o	ft	lb
50	84.3	279.3	82,100				50
55	83.3	278.4	80,600				55
60	82.2	277.4	79,200				60
65	81.1	276.4	77,700	83.7	273.5	66,400	65
70	80.1	275.2	76,400	82.6	272.3	64,100	70
75	79.0	273.9	75,100	81.5	271.1	61,900	75
80	77.9	272.6	73,800	80.4	269.7	59,900	80
85	76.8	271.1	72,500	79.3	268.2	58,000	85
90	75.8	269.5	71,300	78.2	266.6	56,200	90
95	74.7	267.9	70,200	77.1	264.9	54,500	95
100	73.6	266.1	69,000	76.0	263.1	52,900	100
105	72.4	264.2	67,900	74.9	261.2	51,400	105
110	71.3	262.2	66,900	73.8	259.2	49,900	110
115	70.2	260.1	64,900	72.6	257.1	48,700	115
120	69.1	257.8	62,800	71.5	254.8	47,400	120
125	67.9	255.5	60,800	70.3	252.4	46,200	125
130	66.8	253.0	59,000	69.1	249.9	45,000	130
135	65.6	250.4	57,300	67.9	247.3	44,000	135
140	64.4	247.7	55,600	66.7	244.5	42,900	140
145	63.2	244.8	54,100	65.5	241.6	42,000	145
150	62.0	241.8	51,200	64.3	238.5	41,000	150
155	60.8	238.6	48,300	63.1	235.3	40,200	155
160	59.5	235.3	45,700	61.8	231.9	39,300	160
165	58.2	231.8	43,100	60.5	228.4	38,500	165
170	57.0	228.2	40,800	59.2	224.7	37,700	170
175	55.7	224.3	38,600	57.9	220.8	37,000	175
180	54.3	220.3	36,500	56.5	216.7	36,300	180
185	53.0	216.1	34,500	55.1	212.5	35,600	185
190	51.6	211.7	32,700	53.7	208.0	33,900	190
195	50.2	207.1	30,900	52.3	203.2	32,000	195
200	48.7	202.2	29,200	50.8	198.3	30,300	200
205	47.2	197.1	27,600	49.3	193.0	28,600	205
210	45.7	191.7	26,100	47.7	187.5	27,000	210
215	44.1	186.0	24,700	46.1	181.7	25,500	215
220	42.5	179.9	23,300	44.4	175.5	24,100	220
225	40.8	173.5	22,000	42.7	168.9	22,700	225
230	39.0	166.7	20,700	40.9	161.8	21,400	230
235	37.2	159.4	19,500	39.0	154.3	20,100	235
240	35.3	151.5	18,300	37.0	146.2	18,900	240
245	33.2	143.1	17,200	34.9	137.4	17,700	245
250	31.0	133.8	16,100	32.6	127.7	16,500	250
255	28.7	123.7	15,000	30.1	116.9	15,400	255
260	26.1	112.3	14,000				260
265	23.2	99.2	13,000				265
270	19.8	83.6	12,000				270



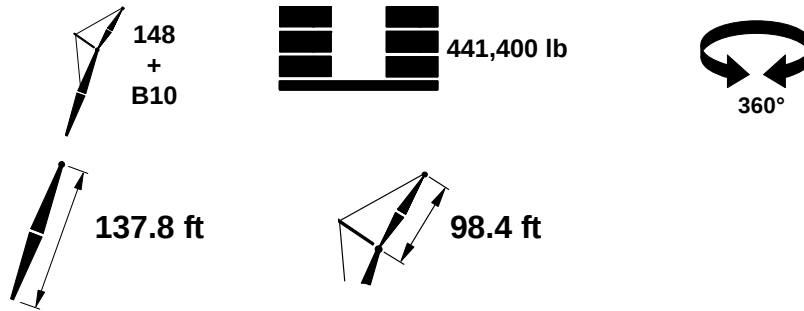
	10°			20°			
 ft	 o	 ft	 lb	 o	 ft	 lb	 ft
50	84.7	299.2	81,700				50
55	83.7	298.3	80,400				55
60	82.7	297.4	79,100				60
65	81.7	296.5	77,700	84.1	293.5	67,200	65
70	80.7	295.4	76,500	83.1	292.5	65,000	70
75	79.8	294.2	75,300	82.1	291.3	62,900	75
80	78.8	292.9	74,100	81.1	290.0	61,000	80
85	77.7	291.6	73,000	80.1	288.6	59,100	85
90	76.7	290.1	71,900	79.1	287.1	57,400	90
95	75.7	288.6	70,800	78.0	285.6	55,700	95
100	74.7	286.9	69,800	77.0	283.9	54,200	100
105	73.7	285.2	68,700	76.0	282.1	52,700	105
110	72.6	283.3	67,700	74.9	280.3	51,400	110
115	71.6	281.4	66,800	73.9	278.3	50,000	115
120	70.6	279.3	65,400	72.8	276.2	48,800	120
125	69.5	277.1	63,500	71.7	274.0	47,600	125
130	68.4	274.9	61,600	70.7	271.7	46,500	130
135	67.4	272.5	59,900	69.6	269.3	45,400	135
140	66.3	270.0	56,700	68.5	266.8	44,500	140
145	65.2	267.3	53,400	67.4	264.1	43,400	145
150	64.1	264.6	50,300	66.2	261.3	42,500	150
155	62.9	261.7	47,500	65.1	258.4	41,700	155
160	61.8	258.7	44,800	64.0	255.3	40,800	160
165	60.7	255.5	42,300	62.8	252.1	40,000	165
170	59.5	252.2	39,900	61.6	248.8	39,200	170
175	58.3	248.8	37,700	60.4	245.3	38,500	175
180	57.1	245.2	35,600	59.2	241.7	37,100	180
185	55.9	241.5	33,600	58.0	237.9	35,000	185
190	54.7	237.5	31,800	56.7	233.9	33,100	190
195	53.4	233.4	30,000	55.5	229.7	31,300	195
200	52.2	229.1	28,300	54.2	225.3	29,500	200
205	50.9	224.6	26,700	52.8	220.7	27,900	205
210	49.5	219.9	25,200	51.5	216.0	26,300	210
215	48.2	215.0	23,800	50.1	210.9	24,800	215
220	46.8	209.8	22,400	48.7	205.6	23,300	220
225	45.3	204.4	21,100	47.2	200.1	22,000	225
230	43.9	198.7	19,800	45.7	194.2	20,700	230
235	42.3	192.6	18,600	44.1	188.0	19,400	235
240	40.8	186.2	17,500	42.5	181.5	18,200	240
245	39.1	179.5	16,400	40.8	174.6	17,000	245
250	37.4	172.3	15,300	39.1	167.1	15,900	250
255	35.7	164.6	14,300	37.3	159.2	14,800	255
260	33.8	156.4	13,300	35.3	150.7	13,700	260
265	31.8	147.5	12,300	33.3	141.4	12,700	265
270	29.7	137.8	11,200	31.0	131.2	11,700	270
275	27.4	127.1	10,100	28.6	120.0	10,500	275
280	24.9	115.2	9,000				280
290	18.8	85.1	6,900				290



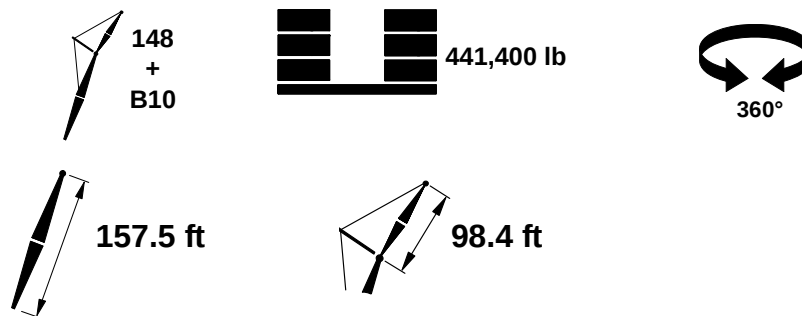
	10°			20°			
ft	o	ft	lb	o	ft	lb	ft
55	84.1	318.3	79,800				55
60	83.2	317.4	78,600				60
65	82.3	316.5	77,500	84.5	313.5	67,900	65
70	81.3	315.5	76,300	83.6	312.5	65,800	70
75	80.4	314.4	75,200	82.6	311.4	63,800	75
80	79.5	313.2	74,100	81.7	310.2	61,900	80
85	78.5	311.9	73,100	80.7	308.9	60,200	85
90	77.6	310.6	72,100	79.8	307.6	58,500	90
95	76.6	309.1	71,100	78.8	306.1	56,900	95
100	75.7	307.6	70,100	77.9	304.5	55,400	100
105	74.7	306.0	69,200	76.9	302.9	54,000	105
110	73.8	304.3	68,200	75.9	301.2	52,600	110
115	72.8	302.4	67,300	74.9	299.3	51,400	115
120	71.8	300.5	66,500	74.0	297.4	50,200	120
125	70.9	298.5	65,700	73.0	295.4	49,000	125
130	69.9	296.4	62,600	72.0	293.2	47,900	130
135	68.9	294.2	58,700	71.0	291.0	46,800	135
140	67.9	291.9	55,100	70.0	288.7	45,800	140
145	66.9	289.5	51,800	68.9	286.2	44,800	145
150	65.8	286.9	48,700	67.9	283.6	43,900	150
155	64.8	284.3	45,800	66.9	281.0	43,100	155
160	63.8	281.5	43,100	65.8	278.2	42,200	160
165	62.7	278.6	40,500	64.7	275.2	41,400	165
170	61.7	275.6	38,200	63.7	272.2	40,000	170
175	60.6	272.5	36,000	62.6	269.0	37,700	175
180	59.5	269.2	33,900	61.5	265.7	35,500	180
185	58.4	265.8	31,900	60.4	262.2	33,400	185
190	57.3	262.2	30,000	59.2	258.6	31,500	190
195	56.2	258.5	28,200	58.1	254.9	29,700	195
200	55.0	254.7	26,600	56.9	251.0	27,900	200
205	53.8	250.7	25,000	55.7	246.9	26,300	205
210	52.7	246.5	23,500	54.5	242.6	24,700	210
215	51.5	242.1	22,000	53.3	238.2	23,200	215
220	50.2	237.5	20,600	52.1	233.5	21,700	220
225	49.0	232.8	19,300	50.8	228.7	20,400	225
230	47.7	227.8	18,100	49.5	223.6	19,100	230
235	46.4	222.5	16,900	48.1	218.3	17,800	235
240	45.0	217.1	15,700	46.7	212.7	16,600	240
245	43.6	211.3	14,600	45.3	206.8	15,400	245
250	42.2	205.3	13,400	43.9	200.7	14,300	250
255	40.7	199.0	12,200	42.4	194.2	13,100	255
260	39.2	192.3	11,000	40.8	187.3	11,900	260
265	37.6	185.2	9,900	39.2	180.0	10,700	265
270	36.0	177.7	8,800	37.5	172.2	9,500	270
275	34.3	169.6	7,700	35.7	163.9	8,400	275
280	32.5	161.0	6,700	33.8	155.0	7,200	280



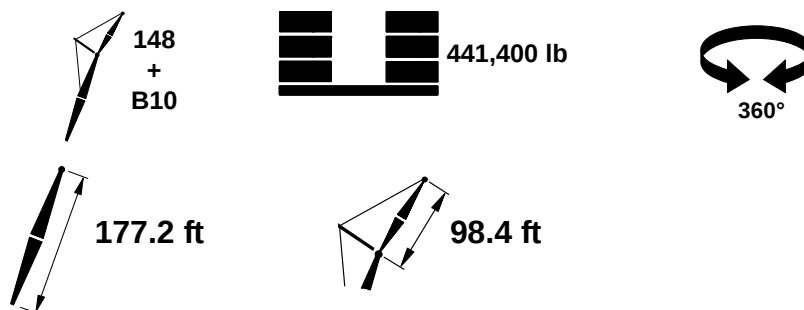
	10°			20°			
ft	o	ft	lb	o	ft	lb	ft
85	73.5	209.0	53,300				85
90	72.0	207.0	51,800				90
95	70.6	204.8	50,300	74.6	202.2	41,400	95
100	69.1	202.4	48,900	73.1	199.8	39,700	100
105	67.7	199.9	47,500	71.6	197.2	38,200	105
110	66.2	197.2	46,300	70.1	194.5	36,800	110
115	64.6	194.4	45,000	68.6	191.6	35,500	115
120	63.1	191.4	43,600	67.0	188.5	34,300	120
125	61.5	188.1	41,900	65.4	185.3	33,100	125
130	59.9	184.7	40,300	63.8	181.8	32,100	130
135	58.3	181.1	38,900	62.1	178.1	31,000	135
140	56.6	177.2	37,500	60.4	174.2	30,100	140
145	54.9	173.1	36,300	58.7	170.0	29,200	145
150	53.2	168.8	35,000	56.9	165.6	28,400	150
155	51.4	164.2	33,900	55.1	160.9	27,500	155
160	49.5	159.2	32,800	53.2	155.8	26,800	160
165	47.6	154.0	31,900	51.2	150.4	26,100	165
170	45.6	148.3	30,900	49.2	144.6	25,400	170
175	43.6	142.3	30,000	47.1	138.4	24,800	175
180	41.4	135.7	29,100	44.8	131.7	24,200	180
185	39.1	128.6	28,300	42.4	124.3	23,700	185
190	36.7	120.9	27,600	39.9	116.3	23,200	190
195	34.0	112.3	26,900	37.2	107.3	22,700	195
200	31.2	102.7	26,200	34.2	97.2	22,300	200
205	28.0	91.7	25,600	30.8	85.4	21,900	205
210	24.3	78.8	25,000	26.7	71.2	21,500	210
215	19.8	62.4	24,500				215



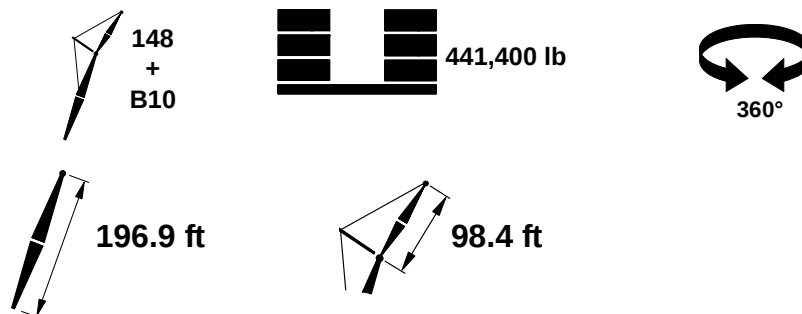
	10°			20°			
ft	o	ft	lb	o	ft	lb	ft
75	77.5	233.3	58,000				75
80	76.2	231.7	56,300				80
85	74.9	230.0	54,800				85
90	73.6	228.1	53,300	77.3	225.4	44,700	90
95	72.3	226.1	51,900	76.0	223.4	43,000	95
100	71.0	224.0	50,600	74.7	221.2	41,400	100
105	69.7	221.8	49,300	73.3	218.9	39,900	105
110	68.3	219.4	48,000	72.0	216.5	38,500	110
115	67.0	216.8	46,900	70.6	213.9	37,200	115
120	65.6	214.1	45,700	69.2	211.2	36,000	120
125	64.2	211.3	44,600	67.8	208.3	34,800	125
130	62.8	208.2	43,200	66.3	205.2	33,800	130
135	61.4	205.0	41,700	64.9	202.0	32,700	135
140	59.9	201.7	40,200	63.4	198.6	31,800	140
145	58.4	198.1	38,900	61.9	194.9	30,900	145
150	56.9	194.3	37,700	60.4	191.1	30,000	150
155	55.4	190.3	36,500	58.8	187.0	29,200	155
160	53.8	186.1	35,400	57.2	182.7	28,500	160
165	52.1	181.7	34,400	55.5	178.2	27,700	165
170	50.5	177.0	33,300	53.8	173.4	27,000	170
175	48.8	171.9	32,400	52.1	168.3	26,400	175
180	47.0	166.6	31,500	50.3	162.8	25,800	180
185	45.2	161.0	30,700	48.4	157.0	25,200	185
190	43.3	154.9	29,900	46.4	150.8	24,600	190
195	41.3	148.4	29,100	44.4	144.1	24,100	195
200	39.2	141.4	28,400	42.2	136.9	23,600	200
205	37.0	133.9	27,700	40.0	129.0	23,200	205
210	34.7	125.6	27,100	37.5	120.4	22,700	210
215	32.2	116.5	26,500	34.9	110.9	22,400	215
220	29.4	106.3	25,800	32.0	100.1	22,000	220
225	26.4	94.7	25,300	28.7	87.5	21,700	225
230	22.8	80.9	24,800				230
235	18.4	63.4	24,400				235



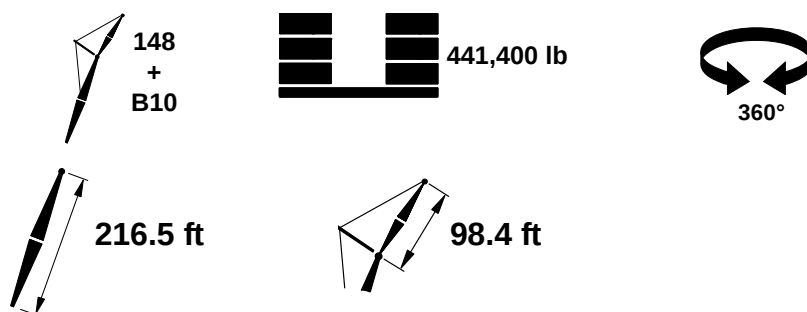
	10°			20°			
ft	o	ft	lb	o	ft	lb	ft
65	80.8	256.4	61,400				65
70	79.6	255.2	60,100				70
75	78.5	253.8	58,800				75
80	77.3	252.3	57,400	80.7	249.5	49,700	80
85	76.1	250.7	56,000	79.6	247.9	47,800	85
90	74.9	249.0	54,600	78.4	246.2	46,000	90
95	73.8	247.2	53,200	77.2	244.4	44,400	95
100	72.6	245.3	52,000	75.9	242.4	42,800	100
105	71.3	243.2	50,800	74.7	240.3	41,400	105
110	70.1	241.1	49,600	73.5	238.1	40,000	110
115	68.9	238.7	48,400	72.2	235.8	38,700	115
120	67.7	236.3	47,300	71.0	233.3	37,500	120
125	66.4	233.7	46,300	69.7	230.7	36,400	125
130	65.1	231.0	45,300	68.4	227.9	35,300	130
135	63.8	228.1	44,200	67.1	225.0	34,300	135
140	62.5	225.1	42,800	65.8	222.0	33,300	140
145	61.2	221.9	41,500	64.4	218.7	32,400	145
150	59.9	218.6	40,200	63.1	215.3	31,600	150
155	58.5	215.1	39,000	61.7	211.8	30,700	155
160	57.1	211.4	37,800	60.3	208.0	30,000	160
165	55.7	207.5	36,800	58.8	204.0	29,200	165
170	54.2	203.4	35,700	57.4	199.9	28,500	170
175	52.8	199.1	34,700	55.9	195.5	27,900	175
180	51.3	194.5	33,800	54.3	190.8	27,200	180
185	49.7	189.7	32,900	52.7	185.9	26,600	185
190	48.1	184.7	32,000	51.1	180.8	26,000	190
195	46.5	179.3	31,300	49.4	175.3	25,500	195
200	44.8	173.6	30,500	47.7	169.4	25,000	200
205	43.0	167.6	29,800	45.9	163.2	24,500	205
210	41.2	161.1	29,100	44.0	156.6	24,000	210
215	39.3	154.2	28,400	42.1	149.5	23,600	215
220	37.3	146.8	27,000	40.0	141.8	23,200	220
225	35.2	138.8	25,700	37.8	133.5	22,800	225
230	33.0	130.1	24,400	35.5	124.4	22,400	230
235	30.5	120.5	23,200	32.9	114.2	22,100	235
240	27.9	109.7	22,000	30.1	102.8	21,800	240
245	24.9	97.4	20,900	26.9	89.4	21,200	245
250	21.5	82.7	19,700				250
255	17.1	64.1	18,600				255



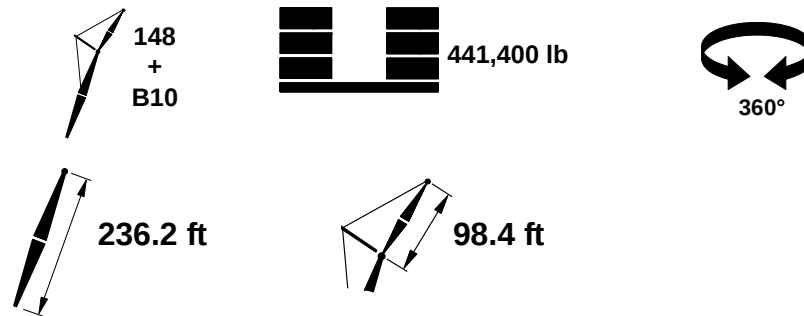
	10°			20°			
ft	o	ft	lb	o	ft	lb	ft
60	82.5	277.6	62,900				60
65	81.4	276.6	61,700				65
70	80.4	275.4	60,500				70
75	79.3	274.2	59,300	82.5	271.2	52,100	75
80	78.2	272.8	58,100	81.4	269.9	50,800	80
85	77.2	271.3	56,900	80.3	268.4	49,000	85
90	76.1	269.8	55,700	79.2	266.8	47,300	90
95	75.0	268.1	54,400	78.1	265.1	45,600	95
100	73.9	266.3	53,200	77.0	263.3	44,100	100
105	72.8	264.4	52,000	75.9	261.4	42,700	105
110	71.6	262.4	50,800	74.8	259.4	41,400	110
115	70.5	260.3	49,800	73.6	257.2	40,100	115
120	69.4	258.1	48,700	72.5	255.0	38,900	120
125	68.2	255.7	47,700	71.3	252.6	37,800	125
130	67.1	253.2	46,700	70.1	250.1	36,700	130
135	65.9	250.6	45,700	69.0	247.5	35,700	135
140	64.7	247.9	44,800	67.8	244.7	34,800	140
145	63.5	245.0	43,900	66.5	241.8	33,900	145
150	62.3	242.0	42,600	65.3	238.7	33,000	150
155	61.1	238.9	41,300	64.1	235.5	32,200	155
160	59.8	235.5	40,100	62.8	232.1	31,400	160
165	58.6	232.1	39,000	61.5	228.6	30,600	165
170	57.3	228.4	37,900	60.2	224.9	29,900	170
175	56.0	224.6	36,900	58.9	221.0	29,200	175
180	54.7	220.6	36,000	57.5	217.0	28,600	180
185	53.3	216.4	35,000	56.2	212.7	28,000	185
190	51.9	212.0	34,200	54.7	208.2	27,400	190
195	50.5	207.4	33,300	53.3	203.5	26,800	195
200	49.1	202.5	32,000	51.8	198.5	26,300	200
205	47.6	197.4	30,500	50.3	193.3	25,800	205
210	46.0	192.0	28,900	48.7	187.8	25,300	210
215	44.5	186.3	27,500	47.1	181.9	24,900	215
220	42.8	180.3	26,100	45.5	175.7	24,400	220
225	41.2	173.9	24,800	43.7	169.2	24,000	225
230	39.4	167.0	23,600	41.9	162.1	23,600	230
235	37.6	159.8	22,300	40.0	154.6	23,100	235
240	35.6	151.9	21,200	38.0	146.5	21,900	240
245	33.6	143.5	20,100	35.9	137.7	20,700	245
250	31.4	134.3	19,000	33.6	128.1	19,500	250
255	29.1	124.2	17,900	31.2	117.4	18,400	255
260	26.5	112.8	16,900	28.4	105.2	17,300	260
265	23.6	99.8	15,900				265
270	20.2	84.4	14,900				270



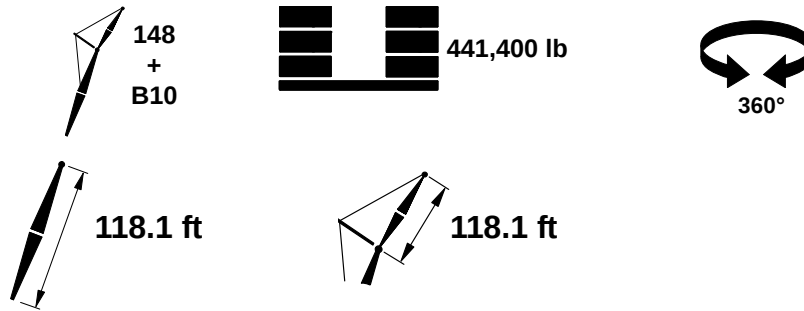
	10°			20°			
ft	o	ft	lb	o	ft	lb	ft
55	84.0	298.6	64,000				55
60	83.0	297.7	62,900				60
65	82.0	296.7	61,800				65
70	81.0	295.6	60,700	84.0	292.6	53,300	70
75	80.0	294.4	59,700	83.0	291.4	52,300	75
80	79.0	293.1	58,600	82.0	290.1	51,300	80
85	78.0	291.8	57,500	81.0	288.8	50,000	85
90	77.0	290.3	56,400	80.0	287.3	48,300	90
95	76.0	288.8	55,300	79.0	285.7	46,700	95
100	75.0	287.1	54,100	77.9	284.1	45,300	100
105	74.0	285.4	53,000	76.9	282.3	43,900	105
110	72.9	283.5	51,900	75.9	280.4	42,500	110
115	71.9	281.6	50,900	74.8	278.4	41,300	115
120	70.8	279.5	49,900	73.7	276.4	40,200	120
125	69.8	277.4	48,900	72.7	274.2	39,100	125
130	68.7	275.1	47,900	71.6	271.9	38,000	130
135	67.6	272.7	47,100	70.5	269.4	37,000	135
140	66.6	270.2	46,100	69.4	266.9	36,000	140
145	65.5	267.6	45,300	68.3	264.2	35,200	145
150	64.4	264.8	44,400	67.2	261.5	34,300	150
155	63.2	261.9	43,500	66.0	258.5	33,500	155
160	62.1	258.9	42,300	64.9	255.5	32,700	160
165	61.0	255.8	41,200	63.7	252.3	32,000	165
170	59.8	252.5	40,100	62.6	249.0	31,200	170
175	58.6	249.1	39,000	61.4	245.5	30,600	175
180	57.4	245.5	37,600	60.2	241.8	29,900	180
185	56.2	241.7	35,700	58.9	238.0	29,300	185
190	55.0	237.8	33,800	57.7	234.0	28,700	190
195	53.7	233.7	32,100	56.4	229.9	28,100	195
200	52.5	229.4	30,400	55.1	225.5	27,600	200
205	51.2	224.9	28,800	53.8	220.9	27,000	205
210	49.8	220.2	27,300	52.4	216.1	26,500	210
215	48.5	215.3	25,900	51.0	211.1	26,000	215
220	47.1	210.1	24,500	49.6	205.8	25,600	220
225	45.7	204.7	23,200	48.2	200.3	24,300	225
230	44.2	199.0	21,900	46.6	194.4	22,900	230
235	42.7	192.9	20,700	45.1	188.3	21,700	235
240	41.1	186.6	19,600	43.5	181.7	20,500	240
245	39.5	179.8	18,400	41.8	174.8	19,300	245
250	37.8	172.7	17,400	40.1	167.4	18,200	250
255	36.0	165.0	16,400	38.2	159.5	17,100	255
260	34.1	156.8	15,400	36.3	150.9	16,000	260
265	32.2	147.9	14,400	34.2	141.7	15,000	265
270	30.1	138.3	13,500	32.0	131.6	14,000	270
275	27.8	127.6	12,600	29.6	120.3	13,000	275
280	25.3	115.7	11,700	26.9	107.5	12,000	280
290	19.2	85.9	9,700				290



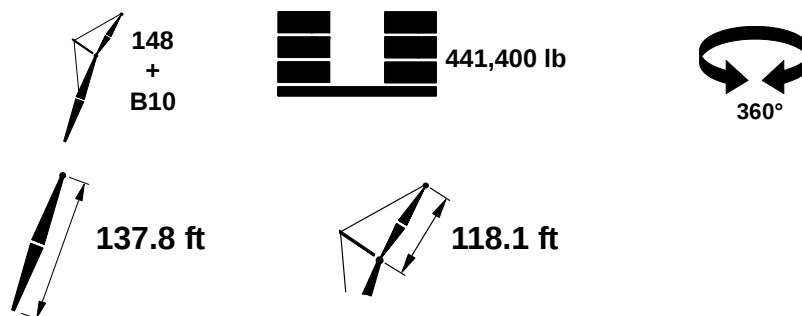
	10°			20°			
ft	o	ft	lb	o	ft	lb	ft
55	84.4	318.5	63,700				55
60	83.5	317.6	62,800				60
65	82.5	316.7	61,700				65
70	81.6	315.7	60,700	84.4	312.6	53,400	70
75	80.7	314.6	59,700	83.5	311.5	52,400	75
80	79.7	313.4	58,800	82.5	310.3	51,500	80
85	78.8	312.1	57,900	81.6	309.0	50,700	85
90	77.9	310.8	56,800	80.6	307.7	49,200	90
95	76.9	309.3	55,900	79.7	306.2	47,700	95
100	76.0	307.8	54,900	78.7	304.6	46,300	100
105	75.0	306.2	53,800	77.8	303.0	44,900	105
110	74.0	304.5	52,800	76.8	301.3	43,700	110
115	73.1	302.7	51,800	75.8	299.4	42,400	115
120	72.1	300.7	50,800	74.8	297.5	41,300	120
125	71.1	298.7	49,900	73.8	295.5	40,200	125
130	70.1	296.6	49,000	72.8	293.3	39,200	130
135	69.2	294.4	48,100	71.8	291.1	38,200	135
140	68.2	292.1	47,300	70.8	288.8	37,200	140
145	67.1	289.7	46,400	69.8	286.3	36,400	145
150	66.1	287.1	45,600	68.8	283.7	35,500	150
155	65.1	284.5	44,900	67.7	281.1	34,700	155
160	64.1	281.7	44,100	66.7	278.3	33,900	160
165	63.0	278.8	43,300	65.6	275.3	33,200	165
170	61.9	275.8	41,000	64.5	272.3	32,400	170
175	60.9	272.7	38,800	63.5	269.1	31,800	175
180	59.8	269.4	36,700	62.4	265.8	31,100	180
185	58.7	266.0	34,700	61.2	262.4	30,500	185
190	57.6	262.5	32,900	60.1	258.8	29,900	190
195	56.4	258.8	31,100	59.0	255.0	29,300	195
200	55.3	254.9	29,400	57.8	251.1	28,700	200
205	54.1	250.9	27,800	56.6	247.0	28,200	205
210	52.9	246.7	26,300	55.4	242.7	27,700	210
215	51.7	242.4	24,900	54.2	238.3	26,300	215
220	50.5	237.8	23,500	52.9	233.7	24,800	220
225	49.3	233.0	22,200	51.7	228.8	23,400	225
230	48.0	228.0	21,000	50.3	223.7	22,100	230
235	46.7	222.8	19,800	49.0	218.4	20,900	235
240	45.3	217.4	18,600	47.6	212.8	19,700	240
245	43.9	211.7	17,500	46.2	207.0	18,500	245
250	42.5	205.6	16,400	44.8	200.8	17,400	250
255	41.0	199.3	15,400	43.3	194.3	16,300	255
260	39.5	192.6	14,400	41.7	187.4	15,300	260
265	38.0	185.5	13,500	40.1	180.2	14,300	265
270	36.3	178.0	12,600	38.4	172.4	13,300	270
275	34.6	170.0	11,600	36.6	164.1	12,300	275
280	32.8	161.4	10,600	34.7	155.2	11,300	280
290	28.8	142.0	8,600	30.6	134.8	9,200	290
300	24.2	118.5	6,700				300



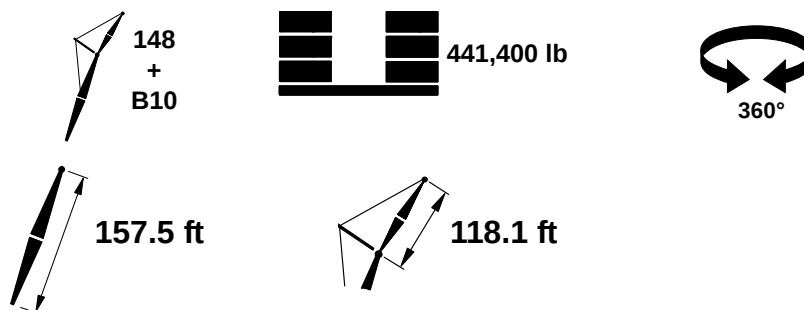
	10°			20°			
 ft	 o	 ft	 lb	 o	 ft	 lb	 ft
55	84.7	338.4	63,300				55
60	83.8	337.6	62,300				60
65	83.0	336.7	61,500				65
70	82.1	335.7	60,500	84.8	332.6	53,300	70
75	81.2	334.7	59,600	83.9	331.5	52,400	75
80	80.4	333.6	58,800	83.0	330.4	51,700	80
85	79.5	332.4	57,900	82.1	329.2	50,800	85
90	78.6	331.1	57,100	81.2	327.9	50,000	90
95	77.7	329.8	56,200	80.3	326.6	48,600	95
100	76.8	328.4	55,300	79.4	325.1	47,200	100
105	75.9	326.8	54,500	78.5	323.6	45,900	105
110	75.0	325.2	53,500	77.6	322.0	44,700	110
115	74.1	323.5	52,500	76.7	320.3	43,500	115
120	73.2	321.8	51,600	75.8	318.5	42,400	120
125	72.3	319.9	50,800	74.9	316.6	41,300	125
130	71.4	317.9	49,900	73.9	314.6	40,300	130
135	70.5	315.9	49,100	73.0	312.5	39,300	135
140	69.5	313.7	48,200	72.1	310.3	38,400	140
145	68.6	311.5	47,400	71.1	308.0	37,500	145
150	67.6	309.1	46,700	70.2	305.7	36,700	150
155	66.7	306.6	45,900	69.2	303.2	35,800	155
160	65.7	304.1	44,200	68.2	300.6	35,000	160
165	64.8	301.4	41,700	67.2	297.9	34,300	165
170	63.8	298.7	39,300	66.2	295.1	33,600	170
175	62.8	295.8	37,100	65.2	292.2	32,900	175
180	61.8	292.8	35,000	64.2	289.1	32,200	180
185	60.8	289.6	33,000	63.2	286.0	31,600	185
190	59.8	286.4	31,100	62.2	282.7	31,000	190
195	58.7	283.0	29,400	61.1	279.2	30,400	195
200	57.7	279.5	27,700	60.1	275.7	29,500	200
205	56.6	275.8	26,100	59.0	272.0	27,800	205
210	55.6	272.1	24,600	57.9	268.1	26,200	210
215	54.5	268.1	23,100	56.8	264.1	24,700	215
220	53.4	264.0	21,800	55.7	260.0	23,200	220
225	52.2	259.7	20,500	54.5	255.6	21,900	225
230	51.1	255.3	19,200	53.4	251.1	20,500	230
235	49.9	250.7	18,000	52.2	246.4	19,300	235
240	48.7	245.8	16,800	51.0	241.5	18,100	240
245	47.5	240.8	15,700	49.7	236.4	16,900	245
250	46.3	235.6	14,700	48.5	231.0	15,800	250
255	45.0	230.1	13,600	47.2	225.4	14,700	255
260	43.7	224.3	12,400	45.9	219.5	13,700	260
265	42.4	218.3	11,300	44.5	213.4	12,500	265
270	41.0	212.0	10,200	43.1	206.9	11,400	270
275	39.6	205.4	9,200	41.6	200.1	10,200	275
280	38.1	198.4	8,100	40.1	192.9	9,100	280
290				36.9	177.2	7,000	290



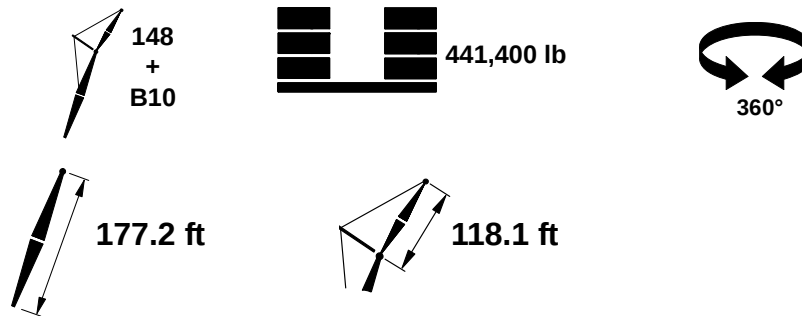
	10°			20°			
ft	o	ft	lb	o	ft	lb	ft
95	73.6	226.0	39,500				95
100	72.3	223.8	38,400				100
105	70.9	221.6	37,200				105
110	69.6	219.2	36,100	74.0	216.1	31,400	110
115	68.2	216.6	34,900	72.6	213.5	30,300	115
120	66.9	213.9	34,000	71.2	210.8	29,200	120
125	65.5	211.1	32,900	69.8	207.9	28,200	125
130	64.1	208.0	32,000	68.4	204.8	27,200	130
135	62.6	204.8	31,000	66.9	201.5	26,400	135
140	61.2	201.4	30,200	65.4	198.1	25,500	140
145	59.7	197.9	29,300	63.9	194.5	24,700	145
150	58.1	194.1	28,500	62.4	190.6	23,900	150
155	56.6	190.1	27,700	60.8	186.6	23,300	155
160	55.0	185.9	27,000	59.2	182.2	22,600	160
165	53.4	181.4	26,300	57.5	177.7	21,900	165
170	51.7	176.7	25,600	55.8	172.9	21,400	170
175	50.0	171.7	24,900	54.1	167.7	20,700	175
180	48.2	166.4	24,400	52.2	162.3	20,200	180
185	46.4	160.7	23,700	50.4	156.4	19,700	185
190	44.5	154.6	23,100	48.4	150.2	19,200	190
195	42.5	148.1	22,700	46.3	143.5	18,700	195
200	40.4	141.1	22,100	44.2	136.2	18,300	200
205	38.2	133.6	21,600	41.9	128.3	17,900	205
210	35.9	125.3	21,000	39.4	119.7	17,500	210
215	33.4	116.1	20,500	36.8	110.0	17,200	215
220	30.6	105.9	20,000	33.8	99.1	16,800	220
225	27.5	94.2	19,500	30.5	86.4	16,600	225
230	24.0	80.3	19,100				230
235	19.5	62.6	18,700				235



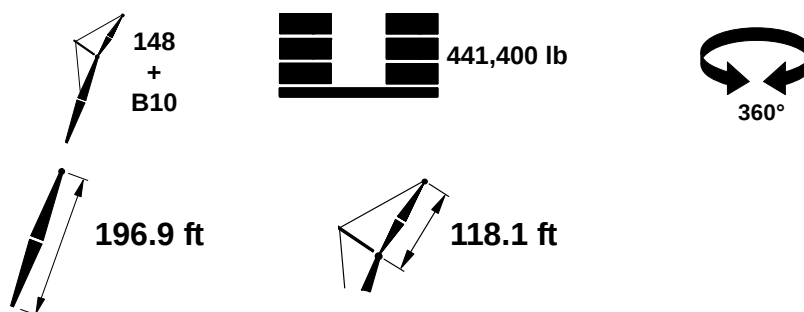
	10°			20°			
ft	o	ft	lb	o	ft	lb	ft
85	77.3	250.5	43,100				85
90	76.1	248.8	41,900				90
95	74.9	247.0	40,700				95
100	73.7	245.1	39,600	77.8	241.9	35,000	100
105	72.5	243.0	38,400	76.6	239.8	33,800	105
110	71.3	240.8	37,400	75.4	237.6	32,600	110
115	70.1	238.5	36,400	74.1	235.2	31,500	115
120	68.8	236.1	35,400	72.8	232.7	30,400	120
125	67.6	233.5	34,400	71.6	230.1	29,400	125
130	66.3	230.8	33,500	70.3	227.4	28,500	130
135	65.0	227.9	32,600	69.0	224.4	27,600	135
140	63.7	224.9	31,700	67.6	221.4	26,800	140
145	62.4	221.7	30,800	66.3	218.1	25,900	145
150	61.0	218.3	30,100	64.9	214.7	25,200	150
155	59.6	214.8	29,300	63.5	211.2	24,500	155
160	58.3	211.1	28,500	62.1	207.4	23,800	160
165	56.8	207.2	27,800	60.7	203.4	23,200	165
170	55.4	203.1	27,100	59.2	199.2	22,600	170
175	53.9	198.8	26,500	57.7	194.8	22,000	175
180	52.4	194.2	25,900	56.1	190.2	21,500	180
185	50.8	189.4	25,300	54.6	185.2	20,900	185
190	49.3	184.4	24,600	52.9	180.0	20,400	190
195	47.6	179.0	24,100	51.2	174.5	19,900	195
200	45.9	173.3	23,600	49.5	168.7	19,500	200
205	44.2	167.2	23,100	47.7	162.5	19,100	205
210	42.3	160.8	22,600	45.8	155.8	18,600	210
215	40.4	153.9	22,100	43.8	148.6	18,300	215
220	38.4	146.5	21,600	41.7	140.9	17,900	220
225	36.3	138.4	21,100	39.5	132.5	17,500	225
230	34.1	129.6	20,600	37.2	123.3	17,200	230
235	31.6	120.0	20,200	34.6	113.1	16,900	235
240	29.0	109.2	19,700	31.7	101.5	16,700	240
245	26.0	96.8	19,300	28.5	87.9	16,500	245
250	22.5	82.0	19,000				250
255	18.1	63.1	18,700				255



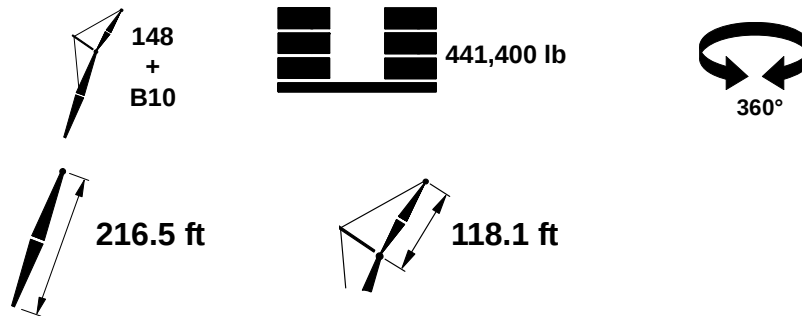
	10°			20°			
ft	o	ft	lb	o	ft	lb	ft
75	80.4	273.9	46,300				75
80	79.3	272.5	45,100				80
85	78.2	271.1	43,900				85
90	77.1	269.5	42,800				90
95	76.0	267.8	41,700	79.9	264.5	36,500	95
100	74.9	266.1	40,600	78.8	262.7	35,600	100
105	73.8	264.2	39,600	77.6	260.8	34,700	105
110	72.7	262.2	38,500	76.5	258.8	33,700	110
115	71.6	260.0	37,500	75.4	256.6	32,600	115
120	70.5	257.8	36,600	74.2	254.3	31,600	120
125	69.3	255.5	35,600	73.0	252.0	30,500	125
130	68.1	253.0	34,800	71.9	249.4	29,600	130
135	67.0	250.4	33,900	70.7	246.8	28,700	135
140	65.8	247.6	33,000	69.5	244.0	27,900	140
145	64.6	244.8	32,200	68.3	241.1	27,100	145
150	63.4	241.7	31,500	67.0	238.0	26,300	150
155	62.1	238.6	30,700	65.8	234.8	25,600	155
160	60.9	235.3	30,000	64.5	231.4	25,000	160
165	59.6	231.8	29,200	63.2	227.9	24,300	165
170	58.3	228.1	28,500	61.9	224.2	23,700	170
175	57.0	224.3	27,900	60.6	220.3	23,100	175
180	55.7	220.3	27,300	59.2	216.2	22,600	180
185	54.4	216.1	26,600	57.8	211.9	22,000	185
190	53.0	211.7	26,000	56.4	207.4	21,500	190
195	51.6	207.0	25,500	55.0	202.7	21,000	195
200	50.1	202.2	25,000	53.5	197.7	20,500	200
205	48.6	197.0	24,500	52.0	192.4	20,100	205
210	47.1	191.6	23,900	50.4	186.9	19,700	210
215	45.5	185.9	23,500	48.8	181.0	19,300	215
220	43.9	179.9	23,000	47.1	174.8	18,900	220
225	42.2	173.5	22,600	45.4	168.2	18,600	225
230	40.4	166.6	22,100	43.5	161.1	18,200	230
235	38.6	159.3	21,600	41.6	153.5	17,800	235
240	36.7	151.5	21,200	39.6	145.4	17,600	240
245	34.6	143.0	20,700	37.5	136.5	17,300	245
250	32.4	133.8	20,300	35.2	126.8	17,000	250
255	30.1	123.6	19,900	32.7	115.9	16,700	255
260	27.5	112.2	19,200	29.9	103.6	16,500	260
265	24.6	99.1	18,200				265
270	21.2	83.5	17,200				270



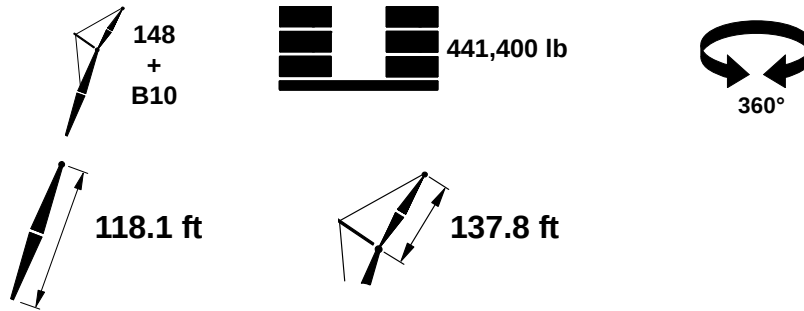
	10°			20°			
ft	o	ft	lb	o	ft	lb	ft
70	82.0	295.3	47,900				70
75	81.0	294.1	46,800				75
80	80.0	292.9	45,700				80
85	79.0	291.5	44,600				85
90	78.0	290.1	43,500	81.6	286.6	37,800	90
95	77.0	288.5	42,400	80.6	285.0	36,900	95
100	76.0	286.9	41,400	79.6	283.4	36,100	100
105	75.0	285.1	40,500	78.5	281.6	35,300	105
110	73.9	283.3	39,500	77.5	279.7	34,500	110
115	72.9	281.3	38,500	76.4	277.7	33,600	115
120	71.8	279.2	37,600	75.4	275.6	32,500	120
125	70.8	277.1	36,800	74.3	273.4	31,500	125
130	69.7	274.8	35,900	73.2	271.1	30,600	130
135	68.6	272.4	35,100	72.1	268.7	29,800	135
140	67.6	269.9	34,200	71.0	266.2	28,900	140
145	66.5	267.3	33,500	69.9	263.5	28,200	145
150	65.4	264.5	32,700	68.8	260.7	27,400	150
155	64.2	261.6	31,900	67.6	257.8	26,700	155
160	63.1	258.6	31,200	66.5	254.7	26,000	160
165	62.0	255.5	30,500	65.3	251.5	25,300	165
170	60.8	252.2	29,900	64.1	248.2	24,800	170
175	59.6	248.7	29,200	62.9	244.7	24,200	175
180	58.4	245.1	28,600	61.7	241.0	23,600	180
185	57.2	241.4	27,900	60.5	237.2	23,100	185
190	56.0	237.4	27,400	59.2	233.2	22,500	190
195	54.7	233.3	26,800	58.0	229.0	22,100	195
200	53.4	229.0	26,300	56.7	224.6	21,600	200
205	52.1	224.5	25,700	55.3	220.0	21,100	205
210	50.8	219.8	25,200	54.0	215.2	20,700	210
215	49.4	214.9	24,700	52.6	210.2	20,300	215
220	48.1	209.7	24,300	51.1	204.9	19,900	220
225	46.6	204.3	23,800	49.7	199.3	19,500	225
230	45.1	198.6	23,300	48.2	193.4	19,200	230
235	43.6	192.5	23,000	46.6	187.2	18,800	235
240	42.1	186.1	22,500	45.0	180.6	18,500	240
245	40.4	179.4	21,500	43.3	173.6	18,100	245
250	38.7	172.2	20,400	41.5	166.2	17,800	250
255	36.9	164.5	19,400	39.7	158.2	17,600	255
260	35.1	156.3	18,400	37.7	149.6	17,300	260
265	33.1	147.4	17,400	35.6	140.2	17,000	265
270	31.0	137.7	16,500	33.4	130.0	16,800	270
275	28.7	127.0	15,600	31.0	118.6	16,100	275
280	26.2	115.0	14,700	28.2	105.6	15,100	280
290	20.0	84.8	12,900				290



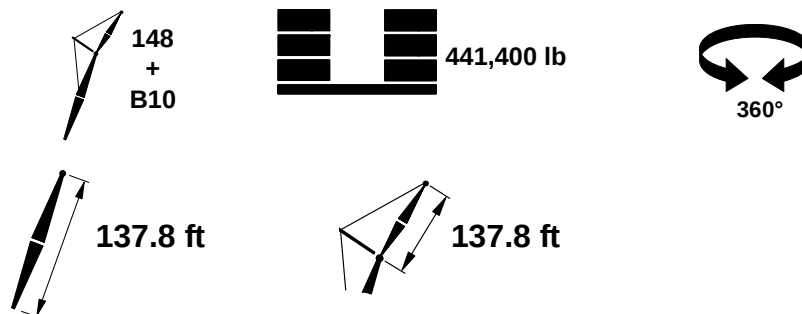
	10°			20°			
ft	o	ft	lb	o	ft	lb	ft
60	84.4	317.3	50,100				60
65	83.5	316.4	49,000				65
70	82.6	315.4	48,100				70
75	81.6	314.3	47,000				75
80	80.7	313.1	46,000	84.1	309.6	39,700	80
85	79.7	311.8	45,100	83.1	308.3	38,900	85
90	78.8	310.5	44,100	82.2	306.9	38,100	90
95	77.9	309.0	43,100	81.2	305.4	37,300	95
100	76.9	307.5	42,100	80.2	303.9	36,500	100
105	76.0	305.9	41,200	79.3	302.2	35,800	105
110	75.0	304.2	40,300	78.3	300.5	35,000	110
115	74.0	302.3	39,400	77.3	298.7	34,300	115
120	73.0	300.4	38,600	76.3	296.7	33,400	120
125	72.1	298.4	37,700	75.3	294.7	32,500	125
130	71.1	296.3	36,900	74.3	292.5	31,500	130
135	70.1	294.1	36,100	73.3	290.3	30,700	135
140	69.1	291.8	35,300	72.3	287.9	29,900	140
145	68.1	289.3	34,500	71.3	285.5	29,100	145
150	67.1	286.8	33,800	70.3	282.9	28,400	150
155	66.0	284.2	33,100	69.2	280.2	27,700	155
160	65.0	281.4	32,400	68.2	277.4	27,000	160
165	63.9	278.5	31,700	67.1	274.5	26,300	165
170	62.9	275.5	31,000	66.0	271.4	25,800	170
175	61.8	272.4	30,400	64.9	268.2	25,200	175
180	60.7	269.1	29,800	63.8	264.9	24,600	180
185	59.6	265.7	29,200	62.7	261.5	24,000	185
190	58.5	262.1	28,600	61.6	257.8	23,500	190
195	57.4	258.4	28,000	60.4	254.1	23,100	195
200	56.2	254.6	27,500	59.3	250.1	22,500	200
205	55.0	250.5	26,900	58.1	246.0	22,100	205
210	53.9	246.3	26,500	56.9	241.8	21,600	210
215	52.7	242.0	25,900	55.6	237.3	21,200	215
220	51.4	237.4	25,500	54.4	232.6	20,800	220
225	50.2	232.6	24,600	53.1	227.8	20,400	225
230	48.9	227.6	23,400	51.8	222.7	20,100	230
235	47.6	222.4	22,200	50.4	217.3	19,700	235
240	46.2	216.9	21,000	49.0	211.7	19,300	240
245	44.8	211.2	19,900	47.6	205.8	19,100	245
250	43.4	205.2	18,800	46.2	199.6	18,700	250
255	41.9	198.8	17,800	44.6	193.1	18,400	255
260	40.4	192.1	16,800	43.1	186.2	17,700	260
265	38.8	185.0	15,800	41.4	178.8	16,700	265
270	37.2	177.5	14,900	39.7	171.0	15,700	270
275	35.5	169.4	14,000	37.9	162.6	14,800	275
280	33.7	160.8	13,200	36.0	153.6	13,800	280
290	29.7	141.4	11,500	31.8	133.0	12,000	290
300	25.0	117.7	9,700				300
310	19.0	86.0	7,800				310



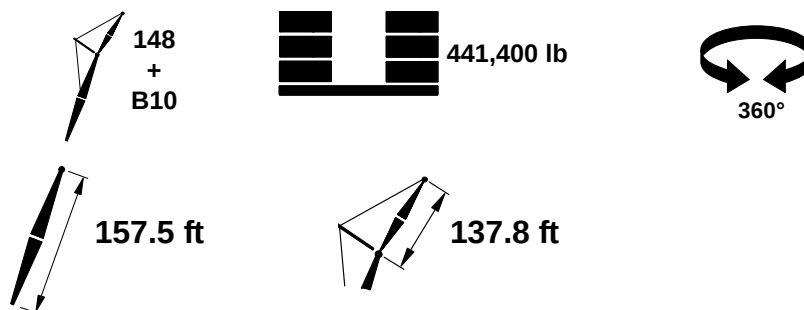
	10°			20°			
ft	o	ft	lb	o	ft	lb	ft
60	84.7	337.2	49,900				60
65	83.9	336.4	49,000				65
70	83.0	335.4	48,100				70
75	82.1	334.4	47,200				75
80	81.2	333.3	46,300				80
85	80.4	332.1	45,400	84.4	329.6	39,800	85
90	79.5	330.8	44,500	83.5	328.4	39,100	90
95	78.6	329.5	43,600	82.6	327.1	38,300	95
100	77.7	328.0	42,700	81.8	325.8	37,600	100
105	76.8	326.5	41,800	80.9	324.3	36,900	105
110	75.9	324.9	41,000	79.9	322.8	36,200	110
115	75.0	323.2	40,100	79.0	321.1	35,500	115
120	74.1	321.4	39,300	78.1	319.4	34,800	120
125	73.2	319.5	38,600	77.2	317.6	34,200	125
130	72.3	317.6	37,700	76.3	315.7	33,300	130
135	71.3	315.5	37,000	75.3	313.7	32,400	135
140	70.4	313.4	36,200	74.4	311.6	31,600	140
145	69.5	311.1	35,500	73.5	309.4	30,800	145
150	68.5	308.8	34,800	72.5	307.2	30,000	150
155	67.6	306.3	34,100	71.6	304.8	29,300	155
160	66.6	303.7	33,400	70.6	302.3	28,600	160
165	65.6	301.1	32,700	69.6	299.7	27,900	165
170	64.7	298.3	32,100	68.6	297.0	27,300	170
175	63.7	295.4	31,500	67.6	294.2	26,700	175
180	62.7	292.4	30,800	66.6	291.2	26,100	180
185	61.7	289.3	30,200	65.6	288.2	25,600	185
190	60.6	286.0	29,700	64.6	285.0	25,000	190
195	59.6	282.6	29,100	63.6	281.7	24,500	195
200	58.6	279.1	28,600	62.5	278.3	24,000	200
205	57.5	275.5	28,000	61.4	274.7	23,500	205
210	56.4	271.7	27,500	60.4	271.0	23,000	210
215	55.3	267.7	26,400	59.3	267.1	22,600	215
220	54.2	263.6	25,000	58.2	263.1	22,100	220
225	53.1	259.3	23,700	57.0	258.9	21,700	225
230	52.0	254.9	22,400	55.9	254.6	21,300	230
235	50.8	250.2	21,200	54.7	250.0	21,000	235
240	49.6	245.4	20,000	53.5	245.3	20,600	240
245	48.4	240.4	18,900	52.3	240.4	20,200	245
250	47.1	235.1	17,900	51.1	235.2	19,900	250
255	45.9	229.6	16,800	49.8	229.8	19,100	255
260	44.6	223.9	15,800	48.5	224.2	18,000	260
265	43.2	217.8	14,900	47.2	218.3	16,900	265
270	41.8	211.5	14,000	45.8	212.1	15,900	270
275	40.4	204.9	13,100	44.4	205.6	14,900	275
280	38.9	197.8	12,200	42.9	198.7	14,000	280
290	35.8	182.5	10,300	41.4	191.5	13,100	290
300	32.4	165.2	8,500	38.1	175.6	11,300	300
310	28.5	144.9	6,700	34.5	157.4	9,300	310
				30.4	135.9	7,300	310



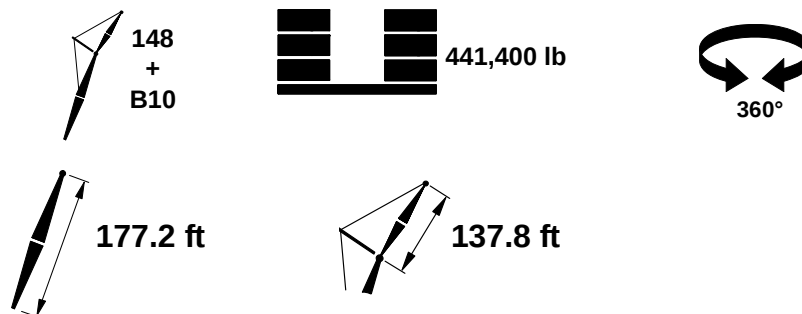
	10°			20°			
ft	o	ft	lb	o	ft	lb	ft
95	74.6	247.5	32,300				95
100	73.4	245.6	31,200				100
105	72.2	243.5	30,100				105
110	71.0	241.3	29,000				110
115	69.8	239.0	28,000	74.6	236.2	24,700	115
120	68.5	236.6	27,100	73.3	233.7	23,900	120
125	67.3	234.0	26,100	72.1	231.1	23,200	125
130	66.0	231.3	25,200	70.8	228.4	22,500	130
135	64.7	228.4	24,400	69.5	225.5	21,700	135
140	63.4	225.4	23,600	68.2	222.4	21,100	140
145	62.1	222.2	22,800	66.8	219.2	20,400	145
150	60.7	218.9	22,100	65.5	215.8	19,800	150
155	59.4	215.4	21,300	64.1	212.3	19,200	155
160	58.0	211.7	20,600	62.7	208.5	18,600	160
165	56.6	207.8	20,000	61.2	204.6	18,000	165
170	55.1	203.7	19,400	59.8	200.4	17,500	170
175	53.7	199.4	18,800	58.3	196.0	17,100	175
180	52.1	194.9	18,200	56.7	191.4	16,600	180
185	50.6	190.1	17,600	55.1	186.5	16,100	185
190	49.0	185.0	17,100	53.5	181.4	15,700	190
195	47.4	179.7	16,500	51.9	175.9	15,300	195
200	45.7	174.0	16,000	50.1	170.1	14,800	200
205	43.9	168.0	15,500	48.3	163.9	14,500	205
210	42.1	161.6	15,100	46.5	157.3	14,100	210
215	40.2	154.7	14,700	44.5	150.2	13,700	215
220	38.2	147.3	14,300	42.5	142.6	13,400	220
225	36.1	139.3	13,900	40.3	134.3	13,200	225
230	33.9	130.6	13,500	37.9	125.3	12,900	230
235	31.5	121.0	13,100	35.4	115.2	12,600	235
240	28.8	110.3	12,800	32.6	103.8	12,400	240
245	25.9	98.1	12,500	29.4	90.7	12,200	245
250	22.5	83.6	12,300	25.6	74.6	12,100	250
255	18.2	65.2	12,100				255



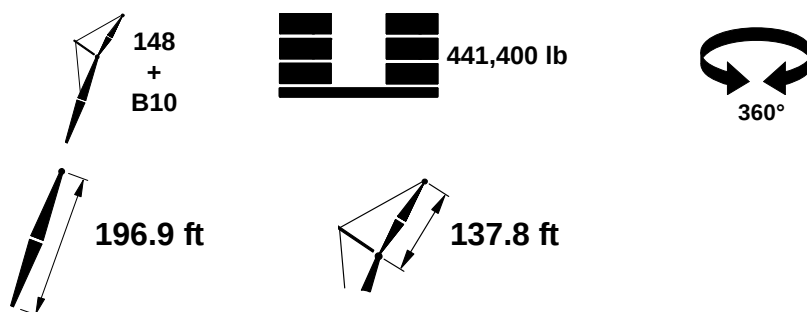
	10°			20°			
ft	o	ft	lb	o	ft	lb	ft
90	76.8	270.0	34,400				90
95	75.8	268.3	33,300				95
100	74.7	266.6	32,300				100
105	73.5	264.7	31,200				105
110	72.4	262.7	30,200				110
115	71.3	260.6	29,200	76.9	259.7	26,300	115
120	70.2	258.3	28,300	75.8	257.6	25,500	120
125	69.0	256.0	27,400	74.7	255.3	24,700	125
130	67.9	253.5	26,500	73.5	252.9	24,000	130
135	66.7	250.9	25,700	72.3	250.4	23,300	135
140	65.5	248.2	24,900	71.1	247.8	22,600	140
145	64.3	245.3	24,100	69.9	245.0	22,000	145
150	63.1	242.3	23,400	68.7	242.1	21,300	150
155	61.9	239.1	22,600	67.5	239.1	20,700	155
160	60.6	235.8	21,900	66.3	235.9	20,200	160
165	59.4	232.4	21,300	65.0	232.5	19,600	165
170	58.1	228.7	20,700	63.7	229.0	19,000	170
175	56.8	224.9	20,000	62.4	225.3	18,500	175
180	55.5	220.9	19,400	61.1	221.4	18,000	180
185	54.1	216.7	18,900	59.7	217.3	17,600	185
190	52.7	212.3	18,400	58.4	213.1	17,100	190
195	51.3	207.7	17,800	57.0	208.6	16,600	195
200	49.9	202.8	17,300	55.5	203.9	16,300	200
205	48.4	197.7	16,800	54.0	198.9	15,800	205
210	46.9	192.3	16,300	52.5	193.7	15,400	210
215	45.3	186.6	15,900	51.0	188.2	15,100	215
220	43.7	180.6	15,500	49.4	182.4	14,700	220
225	42.0	174.2	15,100	47.7	176.2	14,300	225
230	40.2	167.4	14,700	46.0	169.6	14,100	230
235	38.4	160.2	14,300	44.2	162.7	13,700	235
240	36.5	152.4	13,900	42.3	155.2	13,400	240
245	34.5	144.0	13,600	40.3	147.1	13,200	245
250	32.3	134.8	13,200	38.2	138.3	12,900	250
255	30.0	124.7	12,900	35.9	128.7	12,600	255
260	27.4	113.4	12,700	33.4	118.1	12,500	260
265	24.5	100.5	12,400	30.7	106.0	12,300	265
270	21.2	85.2	12,200	27.6	92.0	12,100	270
275	17.0	65.6	12,000				275



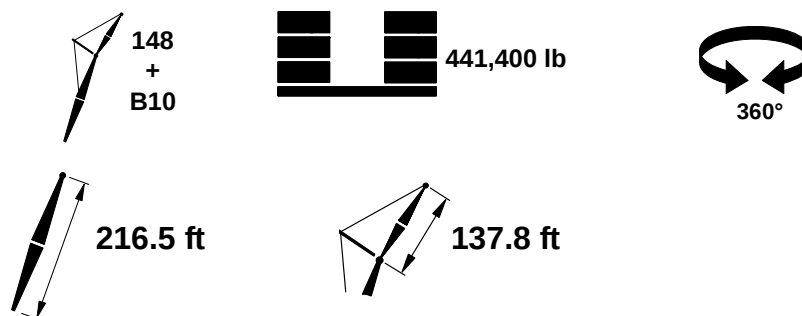
	10°			20°			
ft	o	ft	lb	o	ft	lb	ft
75	80.8	294.6	38,500				75
80	79.8	293.4	37,400				80
85	78.8	292.0	36,300				85
90	77.8	290.6	35,200				90
95	76.7	289.0	34,200				95
100	75.7	287.4	33,100	80.0	284.3	28,500	100
105	74.7	285.6	32,100	78.9	282.5	27,700	105
110	73.7	283.8	31,200	77.9	280.6	26,900	110
115	72.6	281.8	30,200	76.8	278.6	26,200	115
120	71.6	279.8	29,300	75.8	276.6	25,400	120
125	70.5	277.6	28,500	74.7	274.4	24,700	125
130	69.5	275.3	27,600	73.6	272.1	24,100	130
135	68.4	272.9	26,800	72.5	269.7	23,400	135
140	67.3	270.4	26,000	71.4	267.1	22,800	140
145	66.2	267.8	25,300	70.3	264.5	22,100	145
150	65.1	265.1	24,500	69.2	261.7	21,600	150
155	64.0	262.2	23,800	68.1	258.8	21,000	155
160	62.9	259.2	23,100	66.9	255.7	20,400	160
165	61.7	256.0	22,500	65.8	252.5	19,900	165
170	60.6	252.7	21,900	64.6	249.2	19,400	170
175	59.4	249.3	21,200	63.4	245.7	18,900	175
180	58.2	245.7	20,700	62.2	242.1	18,500	180
185	57.0	242.0	20,200	61.0	238.3	18,000	185
190	55.8	238.1	19,600	59.7	234.3	17,600	190
195	54.5	234.0	19,000	58.4	230.1	17,100	195
200	53.2	229.7	18,500	57.1	225.8	16,700	200
205	51.9	225.2	18,000	55.8	221.2	16,300	205
210	50.6	220.5	17,600	54.5	216.4	15,900	210
215	49.2	215.6	17,100	53.1	211.4	15,500	215
220	47.8	210.4	16,600	51.7	206.1	15,200	220
225	46.4	205.0	16,300	50.2	200.6	14,800	225
230	44.9	199.3	15,800	48.7	194.7	14,600	230
235	43.4	193.3	15,400	47.1	188.6	14,300	235
240	41.9	186.9	15,100	45.5	182.0	14,000	240
245	40.2	180.2	14,700	43.9	175.1	13,700	245
250	38.6	173.0	14,300	42.1	167.7	13,400	250
255	36.8	165.4	14,000	40.3	159.8	13,200	255
260	34.9	157.2	13,700	38.4	151.3	12,900	260
265	33.0	148.4	13,300	36.3	142.1	12,700	265
270	30.9	138.8	13,000	34.1	132.0	12,500	270
275	28.6	128.2	12,800	31.7	120.8	12,400	275
280	26.1	116.3	12,500	29.0	108.1	12,200	280
290	20.0	86.6	12,100				290

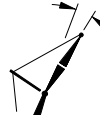
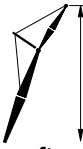
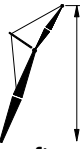


	10°			20°			
ft	o	ft	lb	o	ft	lb	ft
70	82.3	315.9	40,000				70
75	81.4	314.8	38,900				75
80	80.4	313.6	37,900				80
85	79.5	312.3	36,900				85
90	78.5	311.0	35,900	82.5	307.8	30,500	90
95	77.6	309.5	34,900	81.6	306.3	29,800	95
100	76.7	308.0	33,900	80.6	304.8	28,900	100
105	75.7	306.4	33,000	79.7	303.1	28,200	105
110	74.7	304.7	32,100	78.7	301.4	27,500	110
115	73.8	302.9	31,100	77.7	299.5	26,700	115
120	72.8	301.0	30,300	76.7	297.6	26,000	120
125	71.8	298.9	29,500	75.7	295.6	25,400	125
130	70.8	296.8	28,700	74.7	293.5	24,700	130
135	69.8	294.6	27,800	73.7	291.2	24,100	135
140	68.8	292.3	27,100	72.7	288.9	23,500	140
145	67.8	289.9	26,300	71.7	286.4	22,900	145
150	66.8	287.4	25,600	70.7	283.9	22,300	150
155	65.8	284.7	24,900	69.6	281.2	21,800	155
160	64.8	282.0	24,300	68.6	278.4	21,200	160
165	63.7	279.1	23,600	67.5	275.5	20,700	165
170	62.6	276.1	23,000	66.4	272.4	20,300	170
175	61.6	272.9	22,400	65.4	269.2	19,700	175
180	60.5	269.7	21,800	64.3	265.9	19,300	180
185	59.4	266.3	21,300	63.1	262.5	18,800	185
190	58.3	262.7	20,700	62.0	258.9	18,400	190
195	57.1	259.0	20,200	60.9	255.1	17,900	195
200	56.0	255.2	19,700	59.7	251.2	17,600	200
205	54.8	251.2	19,100	58.5	247.1	17,200	205
210	53.7	247.0	18,700	57.3	242.9	16,700	210
215	52.4	242.6	18,300	56.1	238.4	16,400	215
220	51.2	238.1	17,800	54.8	233.8	16,100	220
225	50.0	233.3	17,400	53.6	228.9	15,700	225
230	48.7	228.3	16,900	52.2	223.9	15,400	230
235	47.4	223.1	16,500	50.9	218.6	15,100	235
240	46.0	217.7	16,100	49.5	213.0	14,800	240
245	44.7	212.0	15,800	48.1	207.1	14,400	245
250	43.2	205.9	15,400	46.7	201.0	14,200	250
255	41.8	199.6	15,000	45.2	194.5	13,900	255
260	40.3	192.9	14,700	43.6	187.6	13,600	260
265	38.7	185.9	14,400	42.0	180.3	13,400	265
270	37.0	178.4	14,000	40.3	172.6	13,200	270
275	35.3	170.4	13,700	38.5	164.3	13,000	275
280	33.5	161.8	13,500	36.6	155.4	12,700	280
290	29.6	142.5	12,900	32.5	135.1	12,500	290
300	24.9	119.0	12,300	27.5	110.0	12,200	300
310	19.0	87.9	10,800				310



	10°			20°			
ft	o	ft	lb	o	ft	lb	ft
60	84.5	337.7	42,100				60
65	83.6	336.9	41,100				65
70	82.7	335.9	40,200				70
75	81.9	334.9	39,200				75
80	81.0	333.8	38,300				80
85	80.1	332.6	37,300	83.9	329.3	31,600	85
90	79.2	331.3	36,400	83.0	328.0	30,800	90
95	78.4	330.0	35,500	82.1	326.6	30,100	95
100	77.5	328.5	34,600	81.2	325.2	29,300	100
105	76.6	327.0	33,700	80.3	323.6	28,600	105
110	75.7	325.4	32,800	79.4	322.0	27,900	110
115	74.8	323.7	31,900	78.5	320.3	27,200	115
120	73.9	321.9	31,100	77.6	318.5	26,600	120
125	72.9	320.1	30,300	76.6	316.6	25,900	125
130	72.0	318.1	29,500	75.7	314.6	25,300	130
135	71.1	316.1	28,700	74.8	312.5	24,700	135
140	70.2	313.9	28,000	73.8	310.3	24,100	140
145	69.2	311.6	27,300	72.9	308.1	23,500	145
150	68.3	309.3	26,600	71.9	305.7	23,000	150
155	67.3	306.9	25,900	71.0	303.2	22,400	155
160	66.4	304.3	25,300	70.0	300.6	21,900	160
165	65.4	301.6	24,700	69.0	297.9	21,400	165
170	64.4	298.9	24,000	68.0	295.1	20,900	170
175	63.4	296.0	23,400	67.0	292.2	20,500	175
180	62.5	293.0	22,800	66.0	289.2	20,000	180
185	61.4	289.9	22,300	65.0	286.0	19,600	185
190	60.4	286.6	21,700	64.0	282.7	19,200	190
195	59.4	283.2	21,300	62.9	279.3	18,700	195
200	58.4	279.7	20,800	61.8	275.7	18,300	200
205	57.3	276.1	20,200	60.8	272.0	17,900	205
210	56.2	272.3	19,700	59.7	268.2	17,500	210
215	55.1	268.3	19,300	58.6	264.2	17,200	215
220	54.0	264.2	18,800	57.5	260.0	16,800	220
225	52.9	260.0	18,400	56.3	255.6	16,500	225
230	51.8	255.5	17,900	55.1	251.1	16,100	230
235	50.6	250.9	17,500	54.0	246.4	15,800	235
240	49.4	246.1	17,200	52.8	241.5	15,500	240
245	48.2	241.1	16,700	51.5	236.4	15,200	245
250	47.0	235.8	16,400	50.3	231.0	14,900	250
255	45.7	230.4	16,000	49.0	225.4	14,700	255
260	44.4	224.6	15,600	47.6	219.6	14,400	260
265	43.1	218.6	15,300	46.3	213.4	14,200	265
270	41.7	212.3	15,000	44.8	207.0	13,800	270
275	40.3	205.7	14,700	43.4	200.2	13,600	275
280	38.8	198.7	13,900	41.9	193.0	13,400	280
290	35.7	183.5	12,300	38.7	177.2	13,000	290
300	32.3	166.2	10,800	35.1	159.2	11,500	300
310	28.4	146.1	9,000	31.1	138.0	9,800	310
320	23.9	121.6	7,400	26.2	111.7	7,900	320



 ft	 10°			 20°			 ft
	 o	 ft	 lb	 o	 ft	 lb	
60	84.8	357.6	41,700				60
65	84.0	356.8	41,100				65
70	83.2	355.9	40,300				70
75	82.3	355.0	39,400				75
80	81.5	353.9	38,500				80
85	80.7	352.8	37,600	84.2	349.3	31,800	85
90	79.9	351.6	36,800	83.4	348.1	31,000	90
95	79.0	350.3	35,900	82.6	346.8	30,400	95
100	78.2	349.0	35,000	81.7	345.5	29,700	100
105	77.3	347.5	34,200	80.9	344.0	28,900	105
110	76.5	346.0	33,400	80.0	342.5	28,300	110
115	75.7	344.4	32,600	79.2	340.9	27,600	115
120	74.8	342.8	31,800	78.3	339.2	27,000	120
125	73.9	341.0	31,000	77.4	337.4	26,400	125
130	73.1	339.2	30,300	76.6	335.6	25,800	130
135	72.2	337.3	29,600	75.7	333.6	25,200	135
140	71.3	335.2	28,900	74.8	331.6	24,700	140
145	70.5	333.1	28,100	73.9	329.5	24,100	145
150	69.6	330.9	27,500	73.0	327.2	23,600	150
155	68.7	328.7	26,900	72.1	324.9	23,100	155
160	67.8	326.3	26,200	71.2	322.5	22,600	160
165	66.9	323.8	25,600	70.3	320.0	22,100	165
170	66.0	321.2	25,000	69.4	317.4	21,600	170
175	65.1	318.6	24,400	68.5	314.7	21,100	175
180	64.2	315.8	23,800	67.5	311.9	20,700	180
185	63.2	312.9	23,300	66.6	309.0	20,200	185
190	62.3	309.9	22,700	65.6	305.9	19,800	190
195	61.3	306.8	22,200	64.7	302.8	19,400	195
200	60.4	303.5	21,700	63.7	299.5	19,000	200
205	59.4	300.2	21,200	62.7	296.1	18,600	205
210	58.4	296.7	20,700	61.7	292.6	18,200	210
215	57.4	293.1	20,300	60.7	288.9	17,900	215
220	56.4	289.4	19,800	59.7	285.1	17,500	220
225	55.4	285.5	19,400	58.6	281.2	17,200	225
230	54.4	281.5	19,000	57.6	277.1	16,800	230
235	53.3	277.3	18,600	56.5	272.8	16,500	235
240	52.2	272.9	18,100	55.4	268.4	16,200	240
245	51.1	268.4	17,700	54.3	263.8	15,900	245
250	50.0	263.8	17,300	53.2	259.1	15,600	250
255	48.9	258.9	17,000	52.0	254.1	15,300	255
260	47.8	253.8	16,400	50.9	248.9	15,100	260
265	46.6	248.5	15,500	49.7	243.5	14,800	265
270	45.4	243.0	14,600	48.4	237.9	14,500	270
275	44.2	237.3	13,700	47.2	232.1	14,300	275
280	42.9	231.3	12,900	45.9	225.9	14,000	280
290	40.3	218.4	11,100	43.2	212.7	12,300	290
300	37.5	204.2	9,300	40.3	198.1	10,500	300
310	34.4	188.4	7,700	37.2	181.7	8,700	310
320				33.7	162.9	6,900	320