

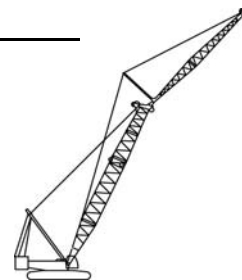
Liftcrane Jib Capacities

Jib No. 133 or No. 133A with 21 ft Strut on
Boom No. 58 HL

296,000 lb Crane Counterweight

60,000 lb Carbody Counterweight

360 Degree Rating



**16000
SERIES 2**



LIFTING CAPACITIES: Chart supplements boom capacity chart No. 8660-A. Lifting capacities for various boom lengths, jib lengths, and jib operating radii are for freely suspended loads and do not exceed 75% of a static tipping load. Capacities based on structural competence are denoted by an asterisk (*).

Weight of all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom and jib point sheaves is considered part of jib 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 in a level position on a firm uniformly supporting surface. Refer to boom rigging **No. A10415**, Jib Assembly **No. 81015738**, Wire Rope Specification chart **No. 8674-D**, Counterweight Arrangement chart **No. 8682-A** and Wind Conditions chart **No. 8688-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 Operator's Manual for operating guidelines.

MACHINE TRAVEL: Machine to travel on a firm, level, and uniformly supporting surface and boom within boom angle range shown in capacity chart. Refer to Maximum Allowable Travel Specification chart **No. 8683-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 ($^{\circ}$) 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 34 ft crawlers, 60 in. treads, 32 ft live mast, 26 part boom hoist reeving, boom support straps, 296,000 lb crane counterweight, and two 30,000 lb carbody counterweights.

Maximum Boom and Jib Lengths Lifted Unassisted

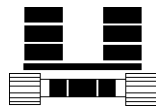
Over End of Blocked Crawlers		Over Side of Crawlers	
Boom Length	Jib No. 133(A)	Boom Length	Jib No. 133(A)
275.6 ft	—	255.9 ft	—
255.9 ft	—	236.2 ft	—
236.2 ft	—	216.5 ft	—
216.5 ft	90.0 ft	196.9 ft	80.0 ft
196.9 ft	130.0 ft	177.2 ft	130.0 ft
177.2 ft	140.0 ft	157.5 ft	140.0 ft
Load block, hook and weight ball on ground at start.			

Explanation of Symbols



133(A)
+
58 HL

Jib No. 133 or No. 133A
+
Boom No. 58 HL



Crane Counterweight
+
Carbody Counterweight



360°

360 Degree Rating



Boom Length



Jib Length

**Explanation of Symbols
(continued)**

Boom Angle
(see page 1)



Operating Radius
(see page 1)



Jib Offset Angle

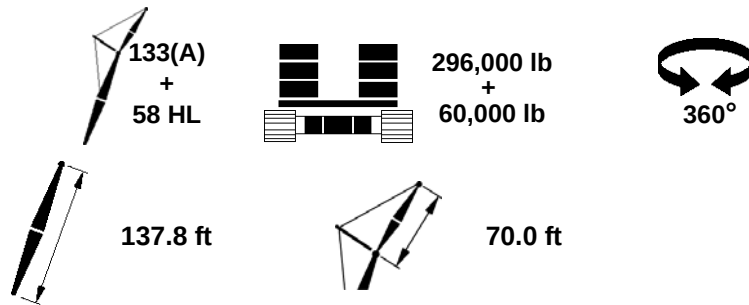


Jib Point Elevation
(see page 1)

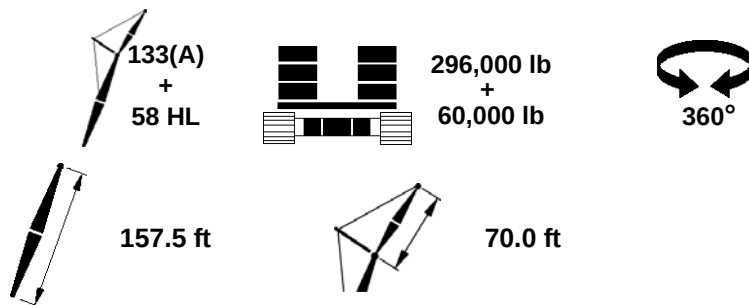


Lifting Capacities
(see page 1)

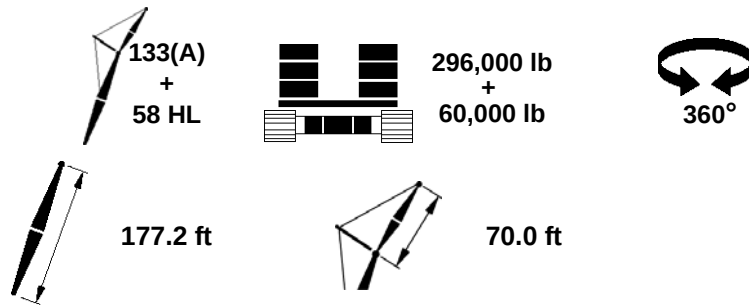
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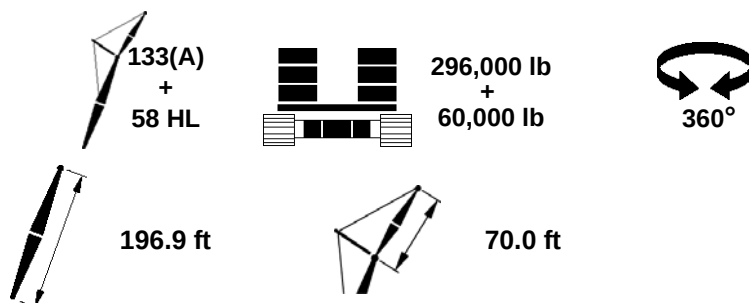
	8°			20°		
	ft	ft	lb	ft	ft	lb
50	81.5	216.0	205,700 *			
55	80.2	214.8	199,500 *			
60	78.8	213.6	193,600 *			
65	77.4	212.1	186,700	81.0	209.8	143,700 *
70	75.9	210.6	167,500	79.6	208.3	137,100 *
75	74.5	208.9	151,400	78.1	206.6	131,000 *
80	73.1	207.1	137,600	76.7	204.7	125,400 *
85	71.6	205.1	125,800	75.2	202.7	120,300 *
90	70.2	203.0	115,400	73.7	200.6	115,700 *
95	68.7	200.8	106,400	72.2	198.3	110,500
100	67.2	198.3	98,300	70.7	195.8	102,100
105	65.6	195.7	91,100	69.2	193.2	94,600
110	64.1	193.0	84,600	67.6	190.4	87,900
115	62.5	190.0	78,800	66.0	187.4	81,900
120	60.9	186.9	73,500	64.4	184.2	76,400
125	59.3	183.6	68,600	62.7	180.9	71,300
130	57.7	180.0	64,200	61.0	177.3	66,700
135	56.0	176.3	60,100	59.3	173.4	62,500
140	54.2	172.3	56,300	57.6	169.4	58,500
145	52.5	168.0	52,900	55.8	165.0	54,900
150	50.6	163.5	49,600	53.9	160.4	51,500
155	48.8	158.6	46,600	52.0	155.5	48,400
160	46.8	153.5	43,800	50.0	150.2	45,400
165	44.8	147.9	41,100	47.9	144.5	42,600
170	42.7	141.9	38,600	45.8	138.4	40,000
175	40.5	135.5	36,300	43.5	131.7	37,500
180	38.2	128.5	34,100	41.1	124.5	35,200
185	35.7	120.8	32,000			
190	33.0	112.4	30,000			
195	30.1	102.9	28,000			



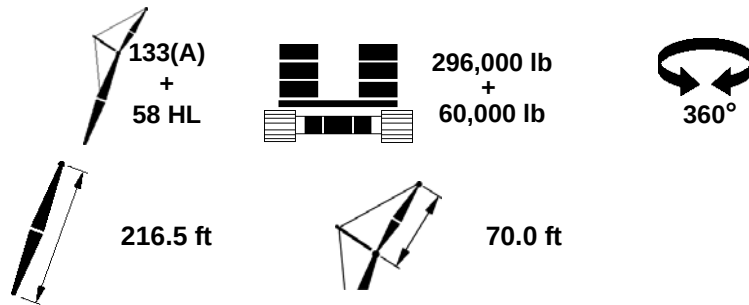
	8°			20°		
	ft	ft	lb	ft	ft	lb
55	81.2	234.9	200,500 *			
60	79.9	233.8	195,300 *			
65	78.6	232.5	185,900	81.9	230.0	148,100 *
70	77.3	231.1	166,600	80.6	228.5	141,700 *
75	76.0	229.6	150,400	79.3	227.0	135,900 *
80	74.7	227.9	136,500	78.0	225.3	130,500 *
85	73.4	226.1	124,600	76.7	223.5	125,500 *
90	72.1	224.2	114,200	75.3	221.6	119,000
95	70.8	222.2	105,000	74.0	219.5	109,500
100	69.4	220.0	96,900	72.6	217.3	101,100
105	68.0	217.7	89,600	71.2	215.0	93,500
110	66.7	215.2	83,100	69.8	212.5	86,800
115	65.3	212.6	77,300	68.4	209.8	80,700
120	63.8	209.8	71,900	67.0	207.0	75,100
125	62.4	206.9	67,100	65.5	204.0	70,100
130	61.0	203.8	62,600	64.1	200.9	65,400
135	59.5	200.5	58,500	62.6	197.5	61,100
140	58.0	197.0	54,700	61.0	194.0	57,200
145	56.4	193.3	51,200	59.5	190.2	53,500
150	54.9	189.4	47,900	57.9	186.3	50,100
155	53.3	185.3	44,900	56.2	182.0	47,000
160	51.6	180.9	42,100	54.6	177.6	44,000
165	49.9	176.2	39,400	52.8	172.9	41,200
170	48.2	171.3	36,900	51.1	167.8	38,600
175	46.4	166.1	34,600	49.2	162.5	36,100
180	44.5	160.5	32,400	47.3	156.8	33,800
185	42.6	154.5	30,300	45.4	150.6	31,600
190	40.6	148.1	28,300	43.3	144.0	29,500
195	38.5	141.2	26,400	41.1	136.9	27,500
200	36.3	133.8	24,600			
205	33.9	125.6	22,900			
210	31.4	116.6	21,300			
215	28.6	106.5	19,700			



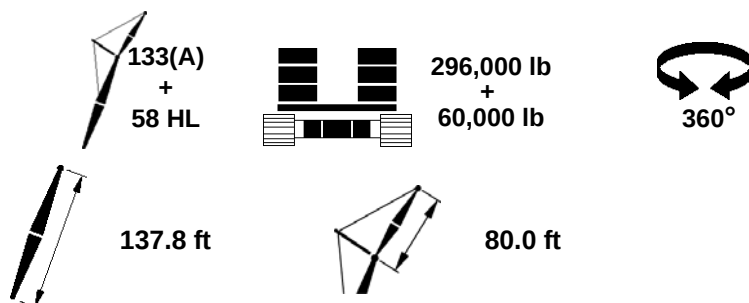
	8°			20°		
ft	o	ft	lb	o	ft	lb
55	81.7	255.1	201,500 *			
60	80.6	254.0	196,700 *			
65	79.4	252.8	184,500			
70	78.2	251.6	165,200	81.3	249.0	145,100 *
75	77.0	250.2	148,900	80.1	247.6	139,400 *
80	75.8	248.7	135,100	78.9	246.1	134,100 *
85	74.6	247.0	123,100	77.7	244.4	128,700
90	73.4	245.3	112,700	76.4	242.7	117,900
95	72.2	243.4	103,500	75.2	240.8	108,400
100	71.0	241.5	95,400	74.0	238.8	99,900
105	69.8	239.4	88,200	72.7	236.7	92,400
110	68.5	237.1	81,700	71.5	234.4	85,600
115	67.2	234.8	75,800	70.2	232.0	79,500
120	66.0	232.3	70,400	68.9	229.5	73,900
125	64.7	229.6	65,600	67.6	226.8	68,900
130	63.4	226.8	61,100	66.3	224.0	64,200
135	62.0	223.9	57,000	64.9	221.0	59,900
140	60.7	220.8	53,200	63.6	217.9	56,000
145	59.3	217.5	49,700	62.2	214.5	52,300
150	58.0	214.1	46,500	60.8	211.0	48,900
155	56.6	210.4	43,400	59.4	207.4	45,800
160	55.1	206.6	40,600	57.9	203.5	42,800
165	53.7	202.6	38,000	56.4	199.4	40,000
170	52.2	198.4	35,500	54.9	195.1	37,400
175	50.6	193.9	33,200	53.3	190.5	35,000
180	49.1	189.2	31,000	51.7	185.7	32,700
185	47.5	184.2	28,900	50.1	180.6	30,500
190	45.8	178.9	26,900	48.4	175.2	28,400
195	44.1	173.3	25,100	46.6	169.5	26,400
200	42.3	167.3	23,300	44.8	163.4	24,600
205	40.5	161.0	21,600	42.9	156.9	22,800
210	38.5	154.2	20,000	41.0	149.9	21,100
215	36.5	146.9	18,500			
220	34.4	138.9	17,000			
225	32.1	130.3	15,600			
230	29.7	120.8	14,200			



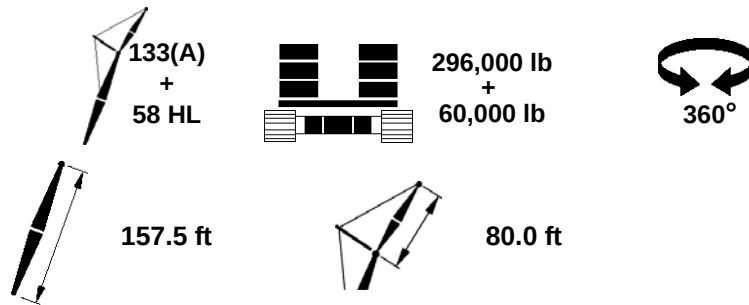
	8°			20°		
	ft	ft	lb	ft	ft	lb
60	81.3	274.1	191,800 *			
65	80.2	273.0	183,400			
70	79.1	271.9	164,000	81.9	269.2	148,500 *
75	78.0	270.6	147,600	80.8	267.9	142,900 *
80	76.9	269.2	133,700	79.7	266.5	137,700 *
85	75.8	267.7	121,700	78.6	265.0	127,800
90	74.7	266.1	111,200	77.5	263.4	116,800
95	73.6	264.4	102,000	76.4	261.7	107,300
100	72.4	262.6	93,900	75.2	259.8	98,800
105	71.3	260.6	86,600	74.1	257.9	91,200
110	70.2	258.6	80,100	72.9	255.8	84,300
115	69.0	256.4	74,200	71.8	253.6	78,200
120	67.9	254.1	68,800	70.6	251.3	72,600
125	66.7	251.7	63,900	69.4	248.9	67,500
130	65.5	249.2	59,400	68.2	246.3	62,800
135	64.3	246.5	55,300	67.0	243.6	58,500
140	63.1	243.7	51,500	65.8	240.8	54,500
145	61.9	240.8	48,000	64.5	237.8	50,900
150	60.6	237.7	44,700	63.3	234.7	47,500
155	59.4	234.5	41,700	62.0	231.4	44,300
160	58.1	231.1	38,900	60.7	228.0	41,300
165	56.8	227.5	36,200	59.4	224.3	38,500
170	55.5	223.7	33,700	58.0	220.5	35,900
175	54.1	219.8	31,400	56.7	216.5	33,500
180	52.7	215.7	29,200	55.3	212.3	31,100
185	51.3	211.3	27,100	53.8	207.9	29,000
190	49.9	206.8	25,100	52.4	203.3	26,900
195	48.4	202.0	23,300	50.9	198.4	24,900
200	46.9	196.9	21,500	49.4	193.3	23,100
205	45.4	191.6	19,800	47.8	187.8	21,300
210	43.8	186.0	18,200	46.2	182.1	19,600
215	42.2	180.0	16,700	44.5	176.0	18,000
220	40.5	173.7	15,300	42.7	169.5	16,400
225	38.7	167.0	13,900	40.9	162.6	14,900
230	36.8	159.8	12,500			
235	34.9	152.1	11,200			
240	32.8	143.7	10,000			
245	30.6	134.6	8,800			
250	28.3	124.6	7,700			



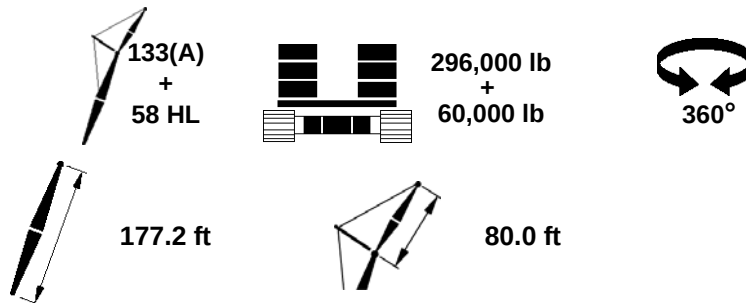
	8°			20°		
ft	ft	ft	lb	ft	ft	lb
60	81.9	294.2	177,100 *			
65	80.9	293.2	177,200 *			
70	79.8	292.1	162,900			
75	78.8	290.9	146,500	81.5	288.2	143,500 *
80	77.8	289.6	132,600	80.4	286.9	139,500
85	76.8	288.2	120,500	79.4	285.5	126,900
90	75.8	286.7	110,000	78.4	284.0	115,900
95	74.7	285.1	100,800	77.3	282.4	106,300
100	73.7	283.5	92,600	76.3	280.7	97,800
105	72.6	281.7	85,300	75.2	278.9	90,100
110	71.6	279.8	78,700	74.2	277.0	83,300
115	70.5	277.8	72,800	73.1	275.0	77,100
120	69.5	275.7	67,400	72.0	272.9	71,500
125	68.4	273.5	62,500	70.9	270.6	66,400
130	67.3	271.2	58,000	69.8	268.3	61,700
135	66.2	268.7	53,900	68.7	265.8	57,300
140	65.1	266.2	50,100	67.6	263.2	53,400
145	64.0	263.5	46,600	66.5	260.5	49,700
150	62.8	260.7	43,300	65.3	257.6	46,200
155	61.7	257.7	40,300	64.2	254.7	43,100
160	60.5	254.6	37,400	63.0	251.5	40,100
165	59.4	251.4	34,800	61.8	248.3	37,300
170	58.2	248.0	32,300	60.6	244.9	34,700
175	57.0	244.5	30,000	59.4	241.3	32,200
180	55.7	240.8	27,700	58.1	237.5	29,900
185	54.5	237.0	25,700	56.9	233.6	27,700
190	53.2	232.9	23,700	55.6	229.5	25,700
195	51.9	228.7	21,800	54.3	225.3	23,700
200	50.6	224.3	20,100	52.9	220.8	21,800
205	49.3	219.7	18,400	51.6	216.0	20,100
210	47.9	214.8	16,800	50.2	211.1	18,400
215	46.5	209.7	15,300	48.7	205.9	16,800
220	45.1	204.4	13,800	47.3	200.4	15,200
225	43.6	198.7	12,500	45.7	194.7	13,800
230	42.0	192.8	11,100	44.2	188.6	12,300
235	40.5	186.5	9,900	42.6	182.2	11,000
240	38.8	179.8	8,600	40.9	175.3	9,700
245	37.1	172.7	7,500			



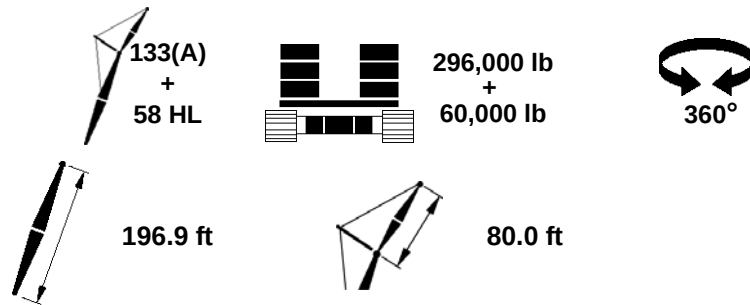
	8°			20°		
	ft	ft	lb	ft	ft	lb
55	81.3	224.9	176,800 *			
60	80.0	223.7	171,600 *			
65	78.7	222.4	166,700 *			
70	77.3	220.9	162,000 *	81.3	218.2	123,900 *
75	76.0	219.3	152,900	79.9	216.6	118,400 *
80	74.6	217.6	139,100	78.5	214.8	113,500 *
85	73.2	215.7	127,200	77.1	212.9	108,900 *
90	71.8	213.7	116,800	75.7	210.9	104,700 *
95	70.4	211.6	107,600	74.3	208.7	100,700 *
100	69.0	209.3	99,500	72.9	206.4	97,100 *
105	67.6	206.8	92,200	71.4	203.9	93,700 *
110	66.1	204.2	85,700	69.9	201.3	89,500
115	64.6	201.5	79,800	68.4	198.4	83,300
120	63.1	198.5	74,500	66.9	195.5	77,800
125	61.6	195.4	69,600	65.4	192.3	72,700
130	60.1	192.1	65,200	63.8	188.9	68,100
135	58.5	188.6	61,100	62.2	185.3	63,800
140	56.9	184.8	57,300	60.5	181.5	59,800
145	55.2	180.9	53,800	58.9	177.5	56,100
150	53.6	176.7	50,500	57.1	173.2	52,700
155	51.8	172.3	47,500	55.4	168.7	49,500
160	50.0	167.5	44,600	53.6	163.9	46,600
165	48.2	162.5	42,000	51.7	158.7	43,800
170	46.3	157.1	39,500	49.7	153.2	41,100
175	44.3	151.3	37,100	47.7	147.2	38,700
180	42.3	145.2	34,900	45.6	140.9	36,300
185	40.1	138.5	32,800	43.4	134.0	34,100
190	37.9	131.3	30,800	41.0	126.5	31,900
195	35.5	123.3	28,900			
200	32.9	114.6	27,100			
205	30.0	104.8	25,300			



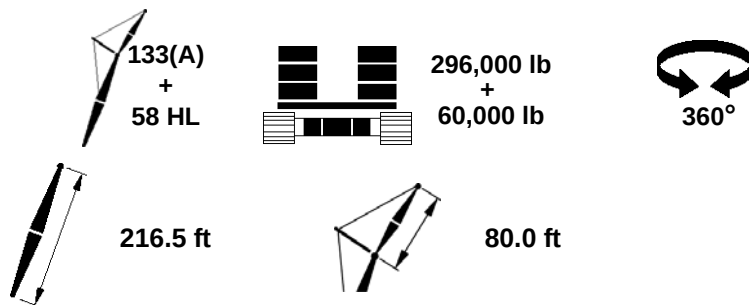
	8°			20°		
ft	o	ft	lb	o	ft	lb
60	81.0	243.9	172,700 *			
65	79.8	242.6	168,300 *			
70	78.6	241.3	164,000 *			
75	77.3	239.8	152,000	80.9	236.8	122,300 *
80	76.1	238.3	138,100	79.7	235.3	117,500 *
85	74.8	236.6	126,000	78.4	233.5	113,100 *
90	73.6	234.7	115,600	77.1	231.7	108,900 *
95	72.3	232.8	106,300	75.8	229.7	105,100 *
100	71.0	230.7	98,200	74.5	227.6	101,600 *
105	69.7	228.5	90,900	73.2	225.4	95,300
110	68.4	226.2	84,300	71.9	223.0	88,400
115	67.1	223.7	78,400	70.6	220.5	82,200
120	65.7	221.1	73,000	69.2	217.8	76,600
125	64.4	218.3	68,100	67.8	215.0	71,500
130	63.0	215.3	63,600	66.4	212.0	66,800
135	61.6	212.2	59,500	65.0	208.8	62,500
140	60.2	208.9	55,700	63.5	205.5	58,500
145	58.7	205.5	52,100	62.1	202.0	54,800
150	57.3	201.8	48,900	60.6	198.2	51,400
155	55.8	198.0	45,800	59.1	194.3	48,200
160	54.2	193.9	42,900	57.5	190.1	45,200
165	52.7	189.6	40,300	55.9	185.7	42,400
170	51.1	185.0	37,800	54.3	181.1	39,700
175	49.4	180.2	35,400	52.6	176.2	37,300
180	47.7	175.1	33,200	50.8	170.9	34,900
185	46.0	169.7	31,100	49.0	165.4	32,700
190	44.2	163.9	29,100	47.2	159.4	30,600
195	42.3	157.7	27,200	45.2	153.1	28,600
200	40.3	151.1	25,400	43.2	146.2	26,700
205	38.2	144.0	23,700			
210	36.1	136.3	22,100			
215	33.7	127.9	20,500			
220	31.2	118.6	19,000			



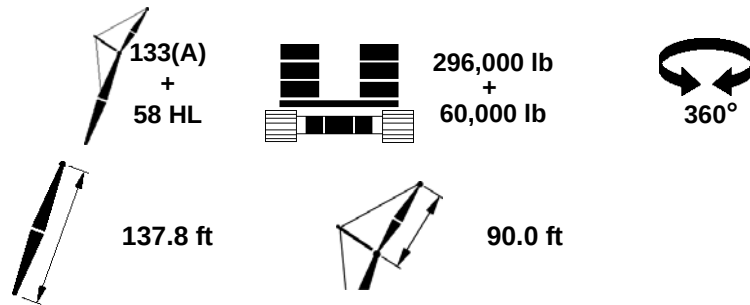
	8°			20°		
	ft	ft	lb	ft	ft	lb
60	81.5	264.1	173,800 *			
65	80.4	262.9	169,800 *			
70	79.3	261.7	165,900 *			
75	78.2	260.4	150,600	81.5	257.4	124,800 *
80	77.0	258.9	136,600	80.4	255.9	120,100 *
85	75.9	257.4	124,600	79.2	254.3	115,800 *
90	74.7	255.7	114,100	78.0	252.6	111,700 *
95	73.5	253.9	104,900	76.9	250.8	108,000 *
100	72.4	252.0	96,700	75.7	248.9	101,800
105	71.2	250.0	89,400	74.5	246.9	94,100
110	70.0	247.9	82,800	73.3	244.7	87,300
115	68.8	245.6	76,900	72.0	242.4	81,100
120	67.6	243.2	71,500	70.8	240.0	75,400
125	66.4	240.7	66,600	69.6	237.5	70,300
130	65.1	238.1	62,100	68.3	234.8	65,600
135	63.9	235.3	58,000	67.0	231.9	61,300
140	62.6	232.3	54,200	65.7	228.9	57,300
145	61.3	229.2	50,600	64.4	225.8	53,600
150	60.0	226.0	47,400	63.1	222.5	50,200
155	58.7	222.5	44,300	61.7	219.0	47,000
160	57.3	218.9	41,500	60.4	215.3	44,000
165	55.9	215.2	38,800	59.0	211.5	41,200
170	54.5	211.2	36,300	57.5	207.4	38,500
175	53.1	207.0	33,900	56.1	203.2	36,100
180	51.6	202.6	31,700	54.6	198.7	33,700
185	50.1	198.0	29,600	53.1	194.0	31,500
190	48.6	193.1	27,700	51.5	189.0	29,400
195	47.0	187.9	25,800	49.9	183.7	27,400
200	45.4	182.5	24,000	48.2	178.1	25,600
205	43.7	176.7	22,300	46.5	172.2	23,800
210	42.0	170.6	20,700	44.7	165.8	22,000
215	40.2	164.0	19,200	42.8	159.1	20,400
220	38.3	157.0	17,700	40.9	151.9	18,800
225	36.3	149.5	16,300			
230	34.2	141.3	14,900			
235	32.0	132.5	13,600			
240	29.6	122.7	12,300			



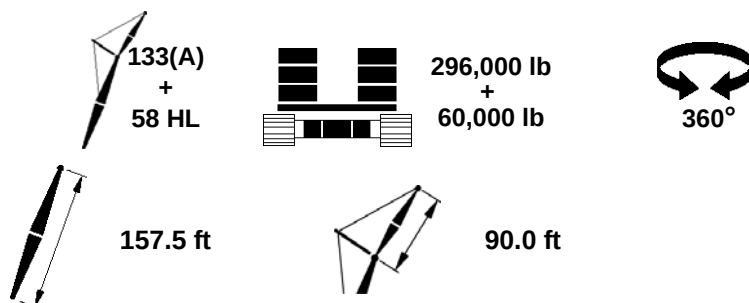
	8°			20°		
ft	o	ft	lb	o	ft	lb
65	81.1	283.1	169,500 *			
70	80.1	281.9	165,900			
75	79.0	280.7	149,400			
80	78.0	279.4	135,400	81.1	276.3	122,900 *
85	76.9	277.9	123,300	80.0	274.8	118,700 *
90	75.8	276.4	112,700	78.9	273.2	114,800 *
95	74.8	274.8	103,400	77.8	271.6	109,300
100	73.7	273.0	95,200	76.7	269.8	100,700
105	72.6	271.2	87,900	75.6	267.9	93,000
110	71.5	269.2	81,300	74.5	266.0	86,100
115	70.4	267.1	75,300	73.4	263.9	79,800
120	69.3	264.9	69,900	72.3	261.6	74,200
125	68.1	262.6	65,000	71.1	259.3	69,000
130	67.0	260.2	60,500	70.0	256.9	64,300
135	65.9	257.7	56,300	68.8	254.3	59,900
140	64.7	255.0	52,500	67.7	251.6	55,900
145	63.5	252.2	48,900	66.5	248.7	52,200
150	62.4	249.2	45,600	65.3	245.7	48,700
155	61.2	246.1	42,600	64.1	242.6	45,500
160	59.9	242.9	39,700	62.8	239.3	42,500
165	58.7	239.5	37,100	61.6	235.9	39,700
170	57.5	236.0	34,500	60.3	232.3	37,100
175	56.2	232.3	32,200	59.0	228.5	34,600
180	54.9	228.4	30,000	57.7	224.5	32,200
185	53.6	224.3	27,900	56.3	220.4	30,000
190	52.2	220.0	25,900	55.0	216.0	27,900
195	50.9	215.5	24,000	53.6	211.4	25,900
200	49.5	210.8	22,200	52.2	206.6	24,000
205	48.0	205.9	20,500	50.7	201.6	22,300
210	46.6	200.7	18,900	49.2	196.2	20,500
215	45.0	195.2	17,400	47.6	190.6	18,900
220	43.5	189.4	15,900	46.0	184.7	17,300
225	41.9	183.3	14,500	44.4	178.4	15,800
230	40.2	176.8	13,200	42.6	171.7	14,400
235	38.5	169.8	11,900	40.8	164.6	13,000
240	36.6	162.5	10,700			
245	34.7	154.5	9,500			
250	32.7	146.0	8,300			
255	30.5	136.6	7,200			



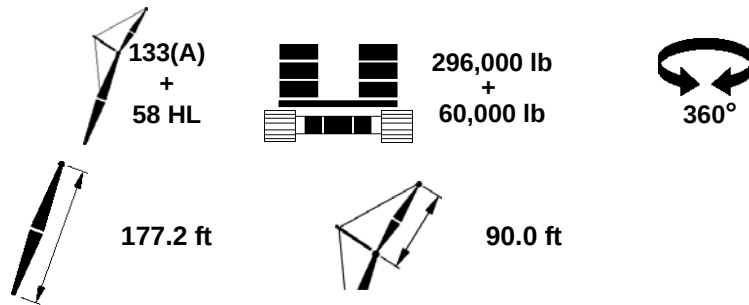
	8°			20°		
	ft	ft	lb	ft	ft	lb
65	81.7	303.2	164,600 *			
70	80.7	302.1	160,100 *			
75	79.7	301.0	148,300			
80	78.8	299.7	134,300	81.7	296.5	125,500 *
85	77.8	298.4	122,100	80.7	295.2	121,400 *
90	76.8	296.9	111,500	79.7	293.7	117,500 *
95	75.8	295.4	102,200	78.7	292.2	108,400
100	74.8	293.8	93,900	77.7	290.5	99,800
105	73.8	292.1	86,600	76.6	288.8	92,000
110	72.8	290.3	79,900	75.6	287.0	85,100
115	71.7	288.4	74,000	74.6	285.0	78,800
120	70.7	286.3	68,500	73.5	283.0	73,100
125	69.7	284.2	63,600	72.5	280.8	67,900
130	68.6	282.0	59,100	71.4	278.6	63,200
135	67.6	279.6	54,900	70.4	276.2	58,800
140	66.5	277.2	51,100	69.3	273.7	54,800
145	65.4	274.6	47,500	68.2	271.1	51,000
150	64.4	271.9	44,200	67.1	268.4	47,600
155	63.3	269.1	41,200	66.0	265.5	44,300
160	62.2	266.1	38,300	64.9	262.5	41,300
165	61.0	263.1	35,600	63.7	259.4	38,500
170	59.9	259.9	33,100	62.6	256.1	35,800
175	58.8	256.5	30,700	61.4	252.7	33,300
180	57.6	253.0	28,500	60.2	249.2	31,000
185	56.4	249.3	26,400	59.0	245.5	28,800
190	55.2	245.5	24,400	57.8	241.6	26,700
195	54.0	241.5	22,600	56.6	237.5	24,700
200	52.8	237.3	20,800	55.3	233.3	22,800
205	51.5	233.0	19,100	54.0	228.8	21,000
210	50.2	228.4	17,500	52.7	224.2	19,300
215	48.9	223.6	16,000	51.4	219.3	17,700
220	47.5	218.6	14,500	50.0	214.2	16,100
225	46.1	213.4	13,100	48.6	208.8	14,600
230	44.7	207.9	11,800	47.1	203.2	13,200
235	43.3	202.1	10,500	45.6	197.2	11,800
240	41.8	196.0	9,300	44.1	191.0	10,500
245	40.2	189.5	8,100	42.5	184.3	9,300
250				40.8	177.3	8,000



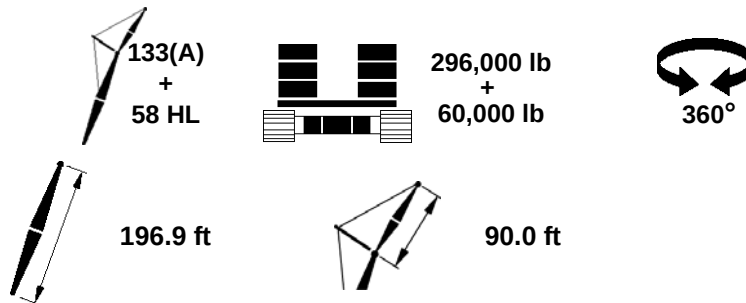
	8°			20°		
	ft	ft	lb	ft	ft	lb
60	81.2	233.9	154,500 *			
65	79.9	232.6	150,100 *			
70	78.6	231.2	145,800 *			
75	77.3	229.7	141,800 *	81.6	226.5	108,600 *
80	76.0	228.0	138,000 *	80.3	224.9	104,000 *
85	74.7	226.2	128,600	78.9	223.1	99,800 *
90	73.4	224.3	118,100	77.6	221.1	96,000 *
95	72.1	222.3	108,900	76.2	219.1	92,400 *
100	70.7	220.1	100,800	74.9	216.9	89,000 *
105	69.3	217.8	93,500	73.5	214.5	85,900 *
110	68.0	215.3	86,900	72.1	212.0	83,000 *
115	66.6	212.7	81,000	70.7	209.3	80,300 *
120	65.2	209.9	75,600	69.2	206.5	77,800 *
125	63.7	207.0	70,700	67.8	203.5	74,200
130	62.3	203.9	66,200	66.3	200.3	69,500
135	60.8	200.6	62,100	64.8	197.0	65,200
140	59.3	197.1	58,300	63.2	193.4	61,200
145	57.7	193.4	54,800	61.7	189.7	57,500
150	56.2	189.5	51,500	60.1	185.7	54,000
155	54.6	185.4	48,400	58.4	181.5	50,800
160	52.9	181.0	45,600	56.8	177.0	47,800
165	51.2	176.4	42,900	55.0	172.2	45,000
170	49.5	171.5	40,400	53.2	167.2	42,400
175	47.7	166.2	38,000	51.4	161.8	39,900
180	45.9	160.6	35,800	49.5	156.1	37,500
185	43.9	154.7	33,700	47.5	149.9	35,300
190	41.9	148.3	31,700	45.4	143.3	33,100
195	39.8	141.4	29,800	43.2	136.1	31,100
200	37.6	133.9	28,000			
205	35.2	125.8	26,300			
210	32.7	116.8	24,600			
215	29.9	106.7	23,000			



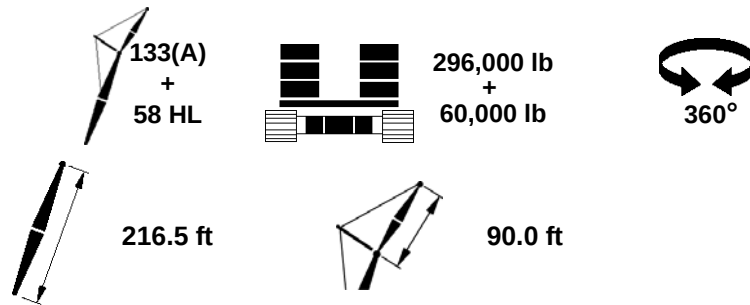
	8°			20°		
	ft	ft	lb	ft	ft	lb
65	80.9	252.7	151,100 *			
70	79.7	251.5	147,300 *			
75	78.5	250.1	143,600 *			
80	77.3	248.6	139,700	81.2	245.2	107,300 *
85	76.1	246.9	127,600	80.0	243.5	103,300 *
90	74.9	245.2	117,000	78.8	241.7	99,500 *
95	73.7	243.3	107,800	77.6	239.9	96,000 *
100	72.5	241.4	99,500	76.3	237.8	92,800 *
105	71.2	239.3	92,200	75.1	235.7	89,700 *
110	70.0	237.0	85,600	73.8	233.4	86,900 *
115	68.7	234.7	79,600	72.5	231.0	83,900
120	67.5	232.2	74,200	71.2	228.5	78,200
125	66.2	229.5	69,300	69.9	225.8	73,100
130	64.9	226.7	64,700	68.6	223.0	68,300
135	63.5	223.8	60,600	67.2	220.0	64,000
140	62.2	220.7	56,700	65.9	216.8	59,900
145	60.8	217.4	53,200	64.5	213.5	56,200
150	59.5	214.0	49,900	63.1	210.0	52,700
155	58.0	210.3	46,800	61.6	206.3	49,500
160	56.6	206.5	43,900	60.2	202.4	46,500
165	55.1	202.5	41,300	58.7	198.2	43,700
170	53.7	198.2	38,700	57.1	193.9	41,000
175	52.1	193.8	36,400	55.6	189.3	38,500
180	50.6	189.0	34,100	54.0	184.5	36,100
185	48.9	184.1	32,000	52.3	179.4	33,900
190	47.3	178.8	30,000	50.6	173.9	31,800
195	45.6	173.2	28,100	48.8	168.1	29,800
200	43.8	167.2	26,300	47.0	162.0	27,800
205	41.9	160.8	24,600	45.1	155.4	26,000
210	40.0	154.0	23,000	43.1	148.3	24,200
215	38.0	146.7	21,400			
220	35.9	138.8	19,900			
225	33.6	130.1	18,500			
230	31.1	120.6	17,100			



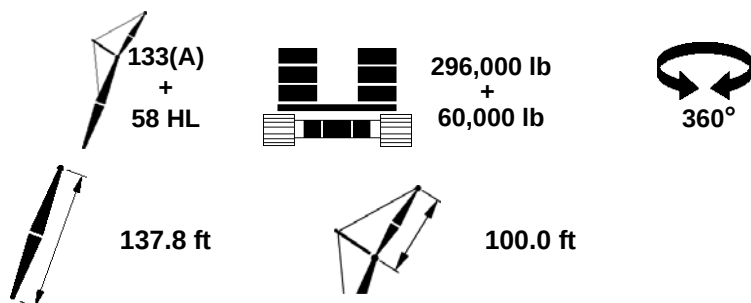
	8°			20°		
ft	o	ft	lb	o	ft	lb
65	81.4	273.0	152,300 *			
70	80.3	271.8	148,700 *			
75	79.2	270.5	145,400 *			
80	78.1	269.1	138,300	81.8	265.7	109,200 *
85	77.0	267.7	126,200	80.6	264.2	105,300 *
90	75.9	266.1	115,600	79.5	262.6	101,600 *
95	74.8	264.3	106,300	78.4	260.8	98,200 *
100	73.7	262.5	98,000	77.2	259.0	95,000 *
105	72.5	260.6	90,700	76.1	257.0	92,000 *
110	71.4	258.6	84,100	74.9	255.0	89,000
115	70.2	256.4	78,100	73.8	252.8	82,800
120	69.1	254.1	72,700	72.6	250.5	77,100
125	67.9	251.7	67,800	71.4	248.0	71,900
130	66.7	249.2	63,200	70.2	245.4	67,100
135	65.5	246.5	59,100	69.0	242.7	62,800
140	64.3	243.7	55,200	67.7	239.9	58,700
145	63.1	240.8	51,700	66.5	236.9	55,000
150	61.8	237.7	48,400	65.2	233.8	51,500
155	60.6	234.4	45,300	64.0	230.4	48,300
160	59.3	231.0	42,400	62.6	227.0	45,300
165	58.0	227.4	39,800	61.3	223.3	42,400
170	56.7	223.7	37,200	60.0	219.5	39,800
175	55.3	219.8	34,900	58.6	215.5	37,300
180	54.0	215.6	32,600	57.2	211.3	34,900
185	52.6	211.3	30,500	55.8	206.9	32,700
190	51.1	206.7	28,600	54.3	202.2	30,600
195	49.7	201.9	26,700	52.8	197.3	28,600
200	48.2	196.9	24,900	51.3	192.1	26,700
205	46.6	191.6	23,200	49.7	186.6	24,900
210	45.0	186.0	21,600	48.0	180.9	23,100
215	43.4	180.0	20,000	46.4	174.7	21,500
220	41.7	173.7	18,500	44.6	168.2	19,900
225	39.9	166.9	17,100	42.8	161.2	18,400
230	38.1	159.7	15,800			
235	36.1	152.0	14,400			
240	34.0	143.6	13,200			
245	31.9	134.5	12,000			



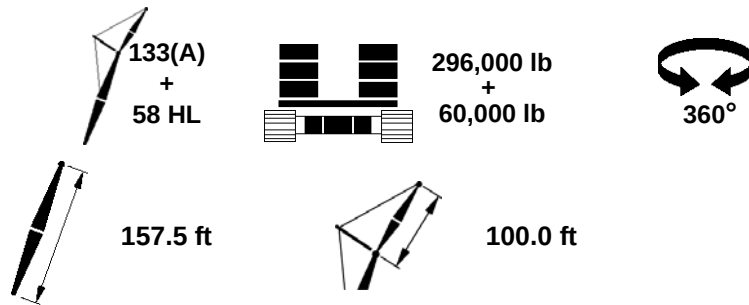
	8°			20°		
	ft	ft	lb	ft	ft	lb
65	82.0	293.1	152,000 *			
70	81.0	292.0	148,800 *			
75	80.0	290.8	145,800 *			
80	79.0	289.5	137,100			
85	77.9	288.1	124,900	81.3	284.6	107,600 *
90	76.9	286.7	114,300	80.3	283.1	104,000 *
95	75.9	285.1	104,900	79.2	281.5	100,700 *
100	74.8	283.4	96,600	78.2	279.8	97,600 *
105	73.8	281.6	89,200	77.1	278.0	94,600 *
110	72.7	279.7	82,600	76.0	276.0	87,900
115	71.7	277.7	76,600	75.0	274.0	81,600
120	70.6	275.6	71,100	73.9	271.9	75,900
125	69.5	273.4	66,200	72.8	269.7	70,700
130	68.4	271.1	61,600	71.7	267.3	65,900
135	67.3	268.7	57,400	70.6	264.8	61,500
140	66.2	266.1	53,600	69.4	262.2	57,400
145	65.1	263.4	50,000	68.3	259.5	53,600
150	64.0	260.6	46,700	67.2	256.6	50,100
155	62.8	257.7	43,600	66.0	253.6	46,900
160	61.7	254.6	40,700	64.8	250.5	43,800
165	60.5	251.4	38,000	63.6	247.2	41,000
170	59.3	248.0	35,500	62.4	243.8	38,300
175	58.1	244.5	33,100	61.2	240.2	35,800
180	56.9	240.8	30,900	59.9	236.4	33,500
185	55.6	236.9	28,800	58.7	232.5	31,200
190	54.4	232.9	26,800	57.4	228.4	29,100
195	53.1	228.6	24,900	56.1	224.1	27,100
200	51.8	224.2	23,100	54.7	219.6	25,200
205	50.4	219.6	21,400	53.3	214.8	23,400
210	49.0	214.7	19,800	51.9	209.9	21,600
215	47.6	209.6	18,200	50.5	204.6	20,000
220	46.2	204.3	16,800	49.0	199.1	18,400
225	44.7	198.6	15,400	47.5	193.3	16,900
230	43.2	192.7	14,000	45.9	187.2	15,500
235	41.6	186.4	12,700	44.3	180.7	14,100
240	39.9	179.7	11,500	42.6	173.8	12,700
245	38.2	172.6	10,300			
250	36.4	165.0	9,100			
255	34.6	156.9	8,000			



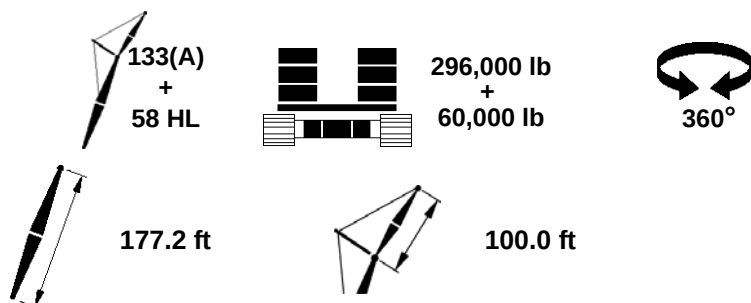
	8°			20°		
ft	o	ft	lb	o	ft	lb
70	81.6	312.1	147,500 *			
75	80.6	311.0	144,700 *			
80	79.7	309.8	136,100			
85	78.7	308.5	123,800	81.9	304.8	109,700 *
90	77.8	307.1	113,100	80.9	303.4	106,200 *
95	76.8	305.7	103,700	79.9	302.0	103,000 *
100	75.8	304.1	95,400	79.0	300.4	99,900 *
105	74.9	302.4	88,000	78.0	298.7	94,000
110	73.9	300.7	81,300	77.0	296.9	87,000
115	72.9	298.9	75,300	76.0	295.1	80,600
120	71.9	296.9	69,800	75.0	293.1	74,900
125	70.9	294.9	64,800	74.0	291.0	69,600
130	69.9	292.7	60,300	73.0	288.8	64,800
135	68.9	290.5	56,100	71.9	286.5	60,400
140	67.9	288.1	52,200	70.9	284.2	56,300
145	66.8	285.6	48,600	69.8	281.6	52,500
150	65.8	283.0	45,300	68.8	279.0	49,000
155	64.7	280.3	42,200	67.7	276.3	45,700
160	63.7	277.5	39,300	66.7	273.4	42,700
165	62.6	274.6	36,600	65.6	270.4	39,800
170	61.5	271.5	34,100	64.5	267.3	37,100
175	60.4	268.3	31,700	63.3	264.0	34,600
180	59.3	264.9	29,500	62.2	260.6	32,200
185	58.2	261.4	27,300	61.1	257.1	30,000
190	57.1	257.8	25,300	59.9	253.4	27,900
195	55.9	254.0	23,500	58.7	249.5	25,900
200	54.7	250.1	21,700	57.5	245.5	24,000
205	53.5	245.9	20,000	56.3	241.3	22,100
210	52.3	241.6	18,300	55.1	236.9	20,400
215	51.1	237.1	16,800	53.8	232.3	18,800
220	49.8	232.4	15,300	52.5	227.5	17,200
225	48.5	227.5	13,900	51.2	222.4	15,700
230	47.2	222.4	12,600	49.8	217.2	14,300
235	45.8	217.0	11,300	48.4	211.6	12,900
240	44.4	211.3	10,000	47.0	205.8	11,500
245	43.0	205.4	8,900	45.5	199.7	10,300
250	41.5	199.1	7,700	44.0	193.3	9,000
255				42.4	186.4	7,800



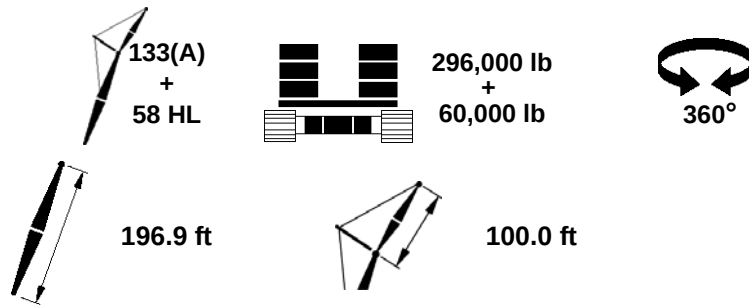
	8°			20°		
	ft	ft	lb	ft	ft	lb
60	81.3	244.4	146,200 *			
65	80.1	243.1	141,800 *			
70	78.8	241.8	137,700 *			
75	77.6	240.4	133,600 *			
80	76.4	238.8	129,900 *			
85	75.1	237.1	126,200 *	80.9	235.9	107,900 *
90	73.8	235.3	118,000	79.6	234.2	103,600 *
95	72.6	233.3	108,800	78.4	232.3	99,700 *
100	71.3	231.3	100,700	77.1	230.4	96,000 *
105	70.0	229.1	93,400	75.8	228.3	92,700 *
110	68.7	226.7	86,900	74.5	226.0	89,500 *
115	67.4	224.2	81,000	73.1	223.7	86,600 *
120	66.0	221.6	75,600	71.8	221.1	83,600 *
125	64.7	218.8	70,700	70.4	218.5	79,600
130	63.3	215.9	66,300	69.1	215.7	74,500
135	61.9	212.8	62,200	67.7	212.7	69,800
140	60.5	209.5	58,400	66.3	209.5	65,500
145	59.1	206.1	54,900	64.8	206.2	61,600
150	57.6	202.4	51,600	63.4	202.7	57,900
155	56.1	198.6	48,600	61.9	199.0	54,400
160	54.6	194.5	45,700	60.3	195.1	51,200
165	53.0	190.2	43,100	58.8	190.9	48,300
170	51.4	185.7	40,600	57.2	186.5	45,500
175	49.8	180.9	38,200	55.6	181.9	42,800
180	48.1	175.8	36,000	53.9	177.0	40,400
185	46.3	170.4	33,900	52.2	171.8	38,000
190	44.5	164.7	32,000	50.4	166.3	35,800
195	42.7	158.5	30,100	48.5	160.4	33,700
200	40.7	152.0	28,300	46.6	154.0	31,700
205	38.6	144.9	26,600	44.6	147.3	29,800
210	36.5	137.2	25,000	42.4	139.9	28,000
215	34.2	128.9	23,400	40.2	132.0	26,200
220	31.7	119.7	21,900			
225	29.0	109.4	20,500			



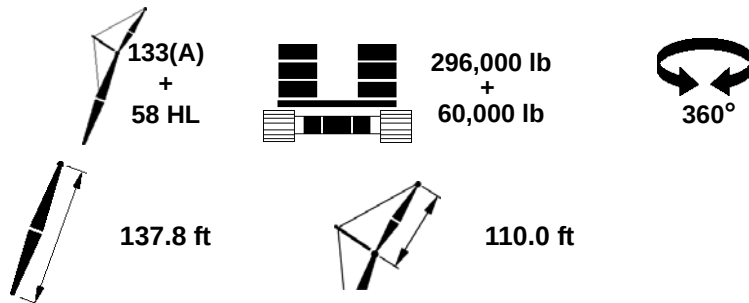
	8°			20°		
ft	o	ft	lb	o	ft	lb
65	81.0	263.3	142,700 *			
70	79.9	262.1	139,000 *			
75	78.7	260.7	135,300 *			
80	77.6	259.3	131,800 *	81.8	256.1	109,400 *
85	76.5	257.7	127,400	80.6	254.6	105,400 *
90	75.3	256.1	116,900	79.4	252.9	101,700 *
95	74.1	254.3	107,600	78.3	251.1	98,200 *
100	73.0	252.4	99,400	77.1	249.2	95,000 *
105	71.8	250.4	92,100	75.9	247.1	91,900 *
110	70.6	248.3	85,500	74.7	245.0	89,100 *
115	69.4	246.0	79,600	73.4	242.7	84,300
120	68.2	243.6	74,200	72.2	240.3	78,600
125	67.0	241.1	69,200	71.0	237.7	73,400
130	65.7	238.4	64,700	69.7	235.0	68,700
135	64.5	235.7	60,600	68.4	232.2	64,300
140	63.2	232.7	56,800	67.1	229.2	60,300
145	61.9	229.6	53,200	65.8	226.0	56,600
150	60.6	226.4	50,000	64.5	222.7	53,100
155	59.3	223.0	46,900	63.2	219.3	49,900
160	57.9	219.4	44,000	61.8	215.6	46,900
165	56.5	215.6	41,400	60.4	211.8	44,100
170	55.1	211.6	38,900	59.0	207.7	41,400
175	53.7	207.5	36,500	57.5	203.5	38,900
180	52.3	203.1	34,300	56.0	199.0	36,600
185	50.8	198.4	32,200	54.5	194.3	34,400
190	49.2	193.6	30,200	52.9	189.3	32,300
195	47.7	188.4	28,300	51.3	184.0	30,300
200	46.0	183.0	26,600	49.7	178.4	28,400
205	44.4	177.2	24,900	47.9	172.5	26,500
210	42.6	171.1	23,200	46.2	166.2	24,800
215	40.8	164.6	21,700	44.3	159.5	23,200
220	39.0	157.6	20,200	42.4	152.2	21,600
225	37.0	150.1	18,800	40.3	144.4	20,000
230	34.9	142.0	17,400			
235	32.7	133.2	16,100			
240	30.3	123.4	14,900			



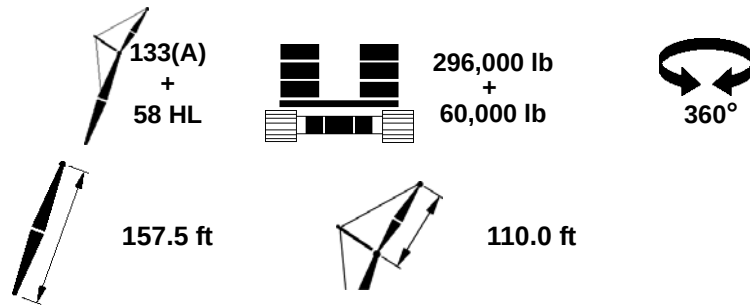
	8°			20°		
	ft	ft	lb	ft	ft	lb
65	81.5	283.5	143,700 *			
70	80.4	282.4	140,200 *			
75	79.4	281.1	136,800 *			
80	78.3	279.8	133,600 *			
85	77.3	278.4	125,900	81.2	275.1	107,800 *
90	76.2	276.8	115,300	80.1	273.6	104,200 *
95	75.1	275.2	106,100	79.0	271.9	100,800 *
100	74.0	273.4	97,800	77.9	270.2	97,600 *
105	73.0	271.6	90,500	76.8	268.3	94,600 *
110	71.9	269.6	83,900	75.7	266.3	89,300
115	70.8	267.6	78,000	74.6	264.2	83,100
120	69.7	265.4	72,600	73.5	262.0	77,400
125	68.5	263.1	67,700	72.3	259.7	72,200
130	67.4	260.7	63,200	71.2	257.2	67,500
135	66.3	258.1	59,000	70.0	254.6	63,100
140	65.1	255.4	55,200	68.8	251.9	59,100
145	63.9	252.6	51,700	67.7	249.1	55,300
150	62.8	249.7	48,400	66.5	246.1	51,900
155	61.6	246.6	45,300	65.2	243.0	48,600
160	60.3	243.4	42,500	64.0	239.7	45,600
165	59.1	240.0	39,800	62.8	236.2	42,800
170	57.9	236.5	37,300	61.5	232.6	40,200
175	56.6	232.8	34,900	60.2	228.9	37,700
180	55.3	228.9	32,700	58.9	224.9	35,300
185	54.0	224.8	30,600	57.6	220.8	33,100
190	52.7	220.5	28,700	56.2	216.4	31,000
195	51.3	216.1	26,800	54.8	211.9	29,000
200	49.9	211.4	25,000	53.4	207.1	27,100
205	48.5	206.4	23,300	51.9	202.0	25,300
210	47.0	201.3	21,700	50.4	196.7	23,600
215	45.5	195.8	20,200	48.9	191.1	21,900
220	43.9	190.0	18,700	47.3	185.2	20,400
225	42.3	183.9	17,300	45.6	178.9	18,900
230	40.6	177.4	16,000	43.9	172.2	17,400
235	38.9	170.6	14,700	42.1	165.1	16,000
240	37.1	163.2	13,500	40.2	157.5	14,700
245	35.2	155.3	12,300			
250	33.2	146.8	11,100			
255	31.0	137.5	10,000			
260	28.7	127.3	8,900			



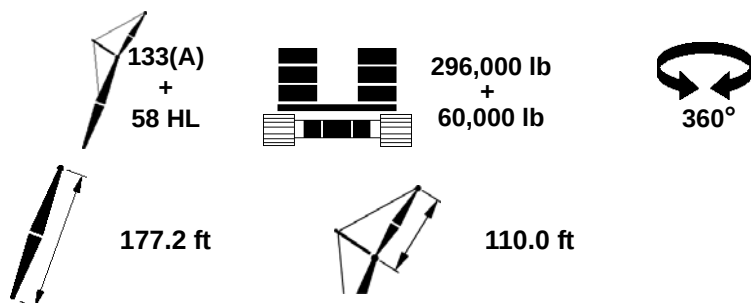
	8°			20°		
ft	o	ft	lb	o	ft	lb
70	81.1	302.5	140,100 *			
75	80.1	301.4	137,100 *			
80	79.1	300.1	134,200 *			
85	78.1	298.8	124,500	81.8	295.4	108,900 *
90	77.1	297.4	113,900	80.8	294.0	106,000 *
95	76.1	295.8	104,600	79.8	292.5	102,800 *
100	75.1	294.2	96,400	78.8	290.8	99,800 *
105	74.1	292.5	89,000	77.7	289.1	95,200
110	73.1	290.7	82,400	76.7	287.3	88,200
115	72.1	288.8	76,400	75.7	285.3	81,900
120	71.1	286.8	71,000	74.6	283.3	76,200
125	70.0	284.6	66,000	73.6	281.1	71,000
130	69.0	282.4	61,500	72.5	278.9	66,200
135	67.9	280.1	57,300	71.5	276.5	61,800
140	66.9	277.6	53,500	70.4	274.0	57,700
145	65.8	275.1	49,900	69.3	271.4	54,000
150	64.7	272.4	46,600	68.2	268.7	50,500
155	63.6	269.6	43,600	67.1	265.8	47,200
160	62.5	266.6	40,700	66.0	262.8	44,200
165	61.4	263.5	38,000	64.8	259.7	41,400
170	60.3	260.3	35,500	63.7	256.5	38,700
175	59.1	257.0	33,200	62.5	253.1	36,200
180	58.0	253.5	30,900	61.4	249.5	33,800
185	56.8	249.8	28,800	60.2	245.8	31,600
190	55.6	246.0	26,900	58.9	241.9	29,500
195	54.4	242.0	25,000	57.7	237.8	27,500
200	53.1	237.9	23,200	56.4	233.6	25,600
205	51.9	233.5	21,500	55.1	229.2	23,800
210	50.6	229.0	19,900	53.8	224.5	22,100
215	49.3	224.2	18,400	52.5	219.7	20,400
220	47.9	219.2	16,900	51.1	214.6	18,800
225	46.6	214.0	15,500	49.7	209.2	17,300
230	45.1	208.5	14,200	48.3	203.6	15,900
235	43.7	202.7	12,900	46.8	197.7	14,500
240	42.2	196.6	11,700	45.2	191.4	13,200
245	40.6	190.2	10,500	43.6	184.8	11,900
250	39.0	183.4	9,400	42.0	177.7	10,700
255	37.3	176.1	8,300	40.2	170.2	9,500
260	35.6	168.4	7,200			



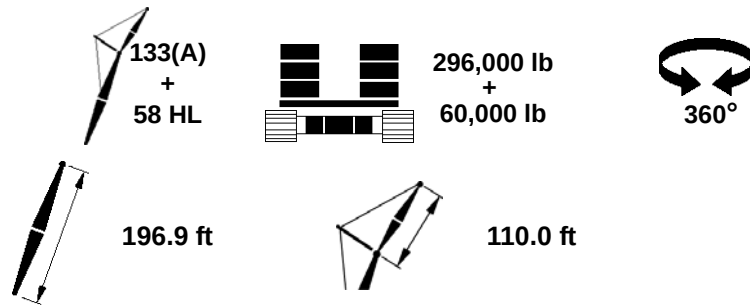
	8°			20°		
	ft	ft	lb	ft	ft	lb
65	81.1	253.3	128,200 *			
70	79.9	252.0	124,400 *			
75	78.7	250.7	120,800 *			
80	77.5	249.2	117,400 *			
85	76.3	247.5	114,100 *	81.1	244.3	95,300 *
90	75.1	245.8	111,000 *	79.9	242.6	92,500 *
95	73.9	243.9	108,000 *	78.7	240.7	89,100 *
100	72.7	242.0	101,900	77.4	238.7	86,000 *
105	71.5	239.9	94,600	76.2	236.6	83,000 *
110	70.2	237.6	88,100	74.9	234.3	80,200 *
115	69.0	235.3	82,200	73.6	231.9	77,600 *
120	67.7	232.8	76,800	72.3	229.4	75,200 *
125	66.4	230.1	71,900	71.0	226.7	72,800 *
130	65.1	227.4	67,400	69.7	223.9	70,700 *
135	63.8	224.4	63,300	68.4	220.9	66,900
140	62.4	221.3	59,500	67.0	217.7	62,900
145	61.1	218.1	55,900	65.6	214.4	59,200
150	59.7	214.6	52,700	64.2	210.9	55,800
155	58.3	211.0	49,600	62.8	207.3	52,600
160	56.9	207.2	46,800	61.3	203.4	49,600
165	55.4	203.2	44,100	59.8	199.3	46,700
170	53.9	199.0	41,600	58.3	195.0	44,100
175	52.4	194.5	39,300	56.8	190.4	41,600
180	50.8	189.8	37,000	55.2	185.6	39,300
185	49.2	184.9	35,000	53.5	180.5	37,000
190	47.6	179.6	33,000	51.8	175.1	34,900
195	45.9	174.0	31,100	50.1	169.4	32,900
200	44.1	168.1	29,300	48.3	163.3	31,000
205	42.3	161.8	27,600	46.4	156.7	29,200
210	40.4	155.0	26,000	44.4	149.7	27,500
215	38.4	147.7	24,400	42.3	142.2	25,800
220	36.2	139.8	23,000			
225	34.0	131.3	21,500			
230	31.5	121.8	20,200			
235	28.9	111.3	18,800			



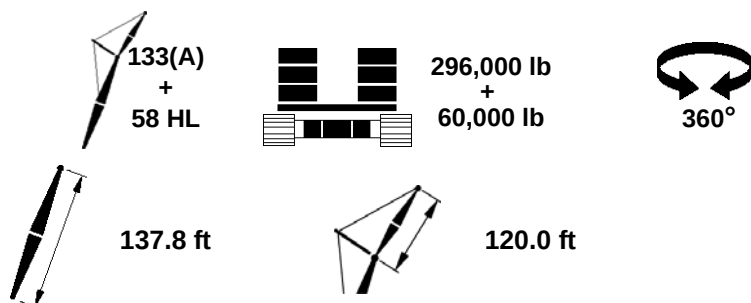
	8°			20°		
ft	o	ft	lb	o	ft	lb
65	81.9	273.4	128,700 *			
70	80.9	272.2	125,300 *			
75	79.8	270.9	122,000 *			
80	78.7	269.5	118,900 *			
85	77.6	268.1	115,800 *	82.0	264.6	96,200 *
90	76.5	266.5	112,900 *	80.9	262.9	94,000 *
95	75.3	264.8	109,000	79.7	261.2	90,800 *
100	74.2	262.9	100,800	78.6	259.4	87,800 *
105	73.1	261.0	93,400	77.4	257.4	85,000 *
110	71.9	259.0	86,800	76.3	255.4	82,300 *
115	70.8	256.8	80,800	75.1	253.2	79,800 *
120	69.6	254.5	75,400	73.9	250.9	77,400 *
125	68.5	252.1	70,500	72.7	248.4	75,000
130	67.3	249.6	65,900	71.5	245.8	70,200
135	66.1	246.9	61,800	70.3	243.1	65,800
140	64.9	244.1	57,900	69.1	240.3	61,800
145	63.6	241.2	54,400	67.8	237.3	58,000
150	62.4	238.1	51,100	66.6	234.2	54,500
155	61.2	234.9	48,000	65.3	230.9	51,300
160	59.9	231.5	45,100	64.0	227.4	48,300
165	58.6	227.9	42,500	62.7	223.8	45,400
170	57.3	224.2	39,900	61.3	220.0	42,800
175	55.9	220.3	37,600	60.0	216.0	40,300
180	54.5	216.1	35,300	58.6	211.8	37,900
185	53.2	211.8	33,200	57.1	207.3	35,700
190	51.7	207.3	31,300	55.7	202.7	33,500
195	50.3	202.5	29,400	54.2	197.8	31,500
200	48.8	197.5	27,600	52.7	192.6	29,600
205	47.2	192.1	25,900	51.1	187.2	27,800
210	45.6	186.5	24,300	49.4	181.4	26,100
215	44.0	180.6	22,700	47.8	175.3	24,400
220	42.3	174.3	21,200	46.0	168.8	22,800
225	40.5	167.6	19,800	44.2	161.8	21,300
230	38.7	160.4	18,500	42.2	154.4	19,800
235	36.8	152.7	17,100			
240	34.7	144.4	15,900			
245	32.5	135.4	14,700			
250	30.2	125.4	13,500			



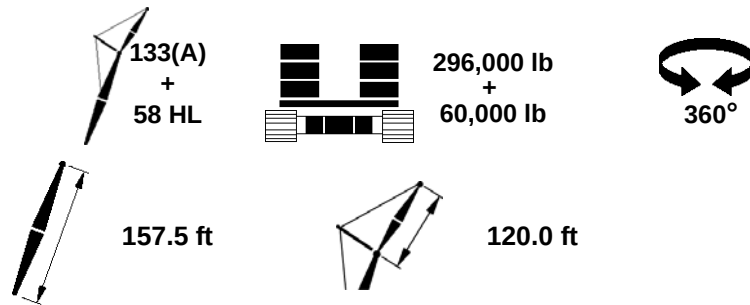
	8°			20°		
	ft	ft	lb	ft	ft	lb
70	81.3	292.5	126,300 *			
75	80.3	291.3	123,300 *			
80	79.3	290.0	120,400 *			
85	78.3	288.6	117,600 *			
90	77.2	287.1	114,900 *	81.3	283.6	95,100 *
95	76.2	285.6	107,500	80.3	282.0	93,000 *
100	75.2	283.9	99,200	79.2	280.3	90,000 *
105	74.1	282.1	91,900	78.2	278.5	87,300 *
110	73.1	280.2	85,200	77.1	276.6	84,600 *
115	72.0	278.2	79,300	76.0	274.6	82,100 *
120	70.9	276.1	73,800	75.0	272.4	79,000
125	69.9	273.9	68,900	73.9	270.2	73,800
130	68.8	271.6	64,400	72.8	267.9	69,000
135	67.7	269.2	60,200	71.7	265.4	64,600
140	66.6	266.6	56,400	70.5	262.8	60,600
145	65.5	263.9	52,800	69.4	260.1	56,800
150	64.3	261.1	49,500	68.2	257.2	53,300
155	63.2	258.2	46,400	67.1	254.2	50,000
160	62.0	255.1	43,600	65.9	251.1	47,000
165	60.9	251.9	40,900	64.7	247.8	44,200
170	59.7	248.5	38,400	63.5	244.4	41,500
175	58.5	245.0	36,000	62.3	240.8	39,000
180	57.2	241.3	33,800	61.0	237.1	36,600
185	56.0	237.5	31,700	59.8	233.2	34,400
190	54.7	233.5	29,700	58.5	229.0	32,300
195	53.5	229.3	27,800	57.2	224.7	30,300
200	52.1	224.8	26,000	55.8	220.2	28,400
205	50.8	220.2	24,300	54.5	215.5	26,500
210	49.4	215.4	22,700	53.1	210.6	24,800
215	48.0	210.3	21,200	51.6	205.4	23,200
220	46.6	205.0	19,700	50.2	199.9	21,600
225	45.1	199.3	18,300	48.6	194.1	20,100
230	43.6	193.4	17,000	47.1	188.0	18,600
235	42.0	187.1	15,700	45.4	181.5	17,200
240	40.4	180.5	14,400	43.7	174.7	15,900
245	38.7	173.4	13,300	42.0	167.3	14,600
250	36.9	165.9	12,100			
255	35.0	157.8	11,000			
260	33.0	149.1	9,900			
265	30.9	139.6	8,900			



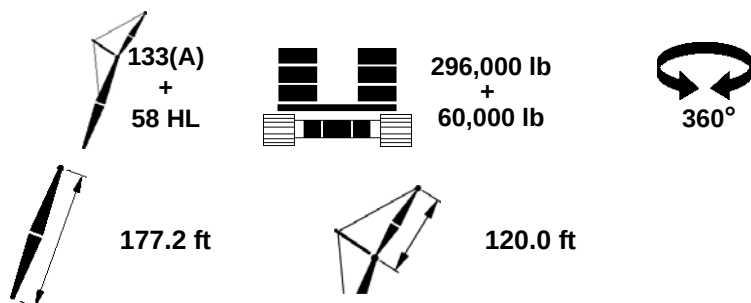
	8°			20°		
ft	o	ft	lb	o	ft	lb
70	81.9	312.6	126,100 *			
75	80.9	311.5	123,400 *			
80	80.0	310.3	120,800 *			
85	79.0	309.0	118,200 *			
90	78.1	307.6	115,500	81.9	303.9	95,600 *
95	77.1	306.1	106,100	80.9	302.4	94,000 *
100	76.1	304.6	97,800	80.0	300.9	91,600 *
105	75.2	302.9	90,400	79.0	299.2	89,000 *
110	74.2	301.2	83,800	78.0	297.4	86,500 *
115	73.2	299.3	77,800	77.0	295.5	83,700
120	72.2	297.4	72,300	76.0	293.6	77,900
125	71.2	295.4	67,300	75.0	291.5	72,700
130	70.2	293.2	62,800	74.0	289.3	67,800
135	69.2	291.0	58,600	72.9	287.0	63,400
140	68.2	288.6	54,700	71.9	284.7	59,300
145	67.2	286.1	51,100	70.9	282.1	55,500
150	66.1	283.6	47,800	69.8	279.5	52,000
155	65.1	280.9	44,700	68.7	276.8	48,700
160	64.0	278.0	41,800	67.7	273.9	45,600
165	62.9	275.1	39,200	66.6	270.9	42,800
170	61.9	272.0	36,600	65.5	267.8	40,100
175	60.8	268.8	34,200	64.4	264.6	37,500
180	59.7	265.5	32,000	63.2	261.2	35,200
185	58.5	262.0	29,900	62.1	257.6	32,900
190	57.4	258.4	27,900	60.9	253.9	30,800
195	56.2	254.6	26,000	59.8	250.1	28,800
200	55.1	250.6	24,200	58.6	246.1	26,900
205	53.9	246.5	22,500	57.3	241.9	25,000
210	52.7	242.2	20,900	56.1	237.5	23,300
215	51.4	237.7	19,400	54.8	232.9	21,700
220	50.1	233.1	17,900	53.5	228.1	20,100
225	48.9	228.2	16,500	52.2	223.1	18,600
230	47.5	223.0	15,200	50.9	217.8	17,100
235	46.2	217.6	13,900	49.5	212.3	15,700
240	44.8	212.0	12,700	48.1	206.5	14,400
245	43.4	206.1	11,500	46.6	200.4	13,100
250	41.9	199.8	10,300	45.1	194.0	11,900
255	40.4	193.2	9,200	43.5	187.2	10,700
260	38.8	186.3	8,200	41.8	180.0	9,500
265	37.1	178.9	7,200			



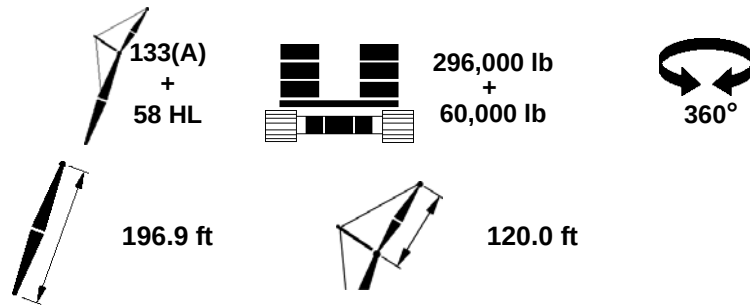
	8°			20°		
	ft	ft	lb	ft	ft	lb
65	82.0	263.5	118,300 *			
70	80.9	262.3	114,800 *			
75	79.7	260.9	111,500 *			
80	78.6	259.5	108,300 *			
85	77.4	257.9	105,300 *			
90	76.3	256.3	102,300 *	81.3	252.8	85,200 *
95	75.1	254.5	99,500 *	80.1	251.0	82,600 *
100	74.0	252.6	96,800 *	78.9	249.1	79,600 *
105	72.8	250.6	94,300 *	77.7	247.1	76,900 *
110	71.6	248.5	88,800	76.5	244.9	74,300 *
115	70.4	246.2	82,800	75.3	242.6	71,800 *
120	69.2	243.9	77,400	74.1	240.2	69,600 *
125	67.9	241.3	72,500	72.8	237.7	67,400 *
130	66.7	238.7	68,000	71.6	235.0	65,400 *
135	65.5	235.9	63,800	70.3	232.1	63,400 *
140	64.2	233.0	60,000	69.0	229.1	61,600 *
145	62.9	229.9	56,500	67.7	226.0	59,900 *
150	61.6	226.6	53,200	66.4	222.7	56,600
155	60.3	223.2	50,100	65.0	219.2	53,300
160	58.9	219.6	47,300	63.6	215.6	50,300
165	57.6	215.9	44,600	62.2	211.7	47,500
170	56.2	211.9	42,100	60.8	207.7	44,800
175	54.7	207.7	39,700	59.4	203.4	42,300
180	53.3	203.4	37,500	57.9	198.9	40,000
185	51.8	198.7	35,400	56.3	194.2	37,700
190	50.3	193.9	33,400	54.8	189.2	35,600
195	48.7	188.7	31,500	53.2	184.0	33,600
200	47.1	183.3	29,700	51.5	178.4	31,700
205	45.4	177.6	28,000	49.8	172.4	29,900
210	43.7	171.4	26,400	48.0	166.1	28,200
215	41.9	164.9	24,900	46.1	159.4	26,500
220	40.0	158.0	23,400	44.2	152.2	24,900
225	38.0	150.5	22,000	42.1	144.4	23,300
230	35.9	142.4	20,600			
235	33.7	133.6	19,300			
240	31.3	123.9	18,000			



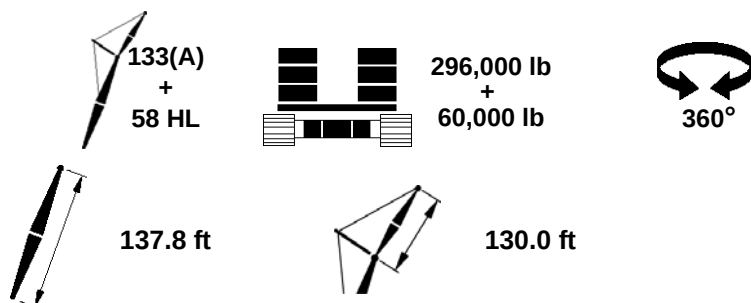
	8°			20°		
ft	o	ft	lb	o	ft	lb
70	81.7	282.4	115,400 *			
75	80.6	281.2	112,300 *			
80	79.6	279.8	109,400 *			
85	78.5	278.4	106,600 *			
90	77.5	276.9	103,900 *			
95	76.4	275.2	101,300 *	81.0	271.4	84,000 *
100	75.3	273.5	98,800 *	80.0	269.6	81,100 *
105	74.2	271.6	94,200 *	78.8	267.7	78,500 *
110	73.1	269.7	87,500 *	77.7	265.7	76,000 *
115	72.0	267.6	81,500 *	76.6	263.6	73,700 *
120	70.9	265.4	76,100 *	75.5	261.4	71,500 *
125	69.8	263.1	71,100 *	74.4	259.1	69,400 *
130	68.7	260.7	66,600 *	73.2	256.6	67,400 *
135	67.5	258.2	62,400 *	72.0	254.1	65,500 *
140	66.4	255.5	58,500 *	70.9	251.3	62,700 *
145	65.2	252.7	55,000 *	69.7	248.5	58,900 *
150	64.0	249.7	51,600 *	68.5	245.5	55,400 *
155	62.8	246.7	48,500 *	67.3	242.4	52,100 *
160	61.6	243.4	45,700 *	66.0	239.1	49,100 *
165	60.4	240.1	43,000 *	64.8	235.6	46,200 *
170	59.1	236.5	40,400 *	63.5	232.0	43,500 *
175	57.9	232.8	38,100 *	62.2	228.2	41,000 *
180	56.6	228.9	35,800 *	60.9	224.3	38,600 *
185	55.2	224.9	33,700 *	59.5	220.1	36,400 *
190	53.9	220.6	31,700 *	58.2	215.7	34,300 *
195	52.5	216.1	29,800 *	56.8	211.2	32,200 *
200	51.1	211.4	28,000 *	55.3	206.3	30,300 *
205	49.7	206.5	26,300 *	53.9	201.3	28,500 *
210	48.2	201.3	24,700 *	52.4	196.0	26,700 *
215	46.7	195.8	23,100 *	50.8	190.3	25,100 *
220	45.2	190.1	21,700 *	49.2	184.4	23,500 *
225	43.6	184.0	20,200 *	47.5	178.1	22,000 *
230	41.9	177.5	18,900 *	45.8	171.4	20,500 *
235	40.2	170.6	17,600 *	44.0	164.2	19,100 *
240	38.4	163.3	16,300 *	42.1	156.5	17,700 *
245	36.5	155.4	15,100 *			
250	34.4	146.9	14,000 *			
255	32.3	137.6	12,800 *			
260	30.0	127.4	11,700 *			



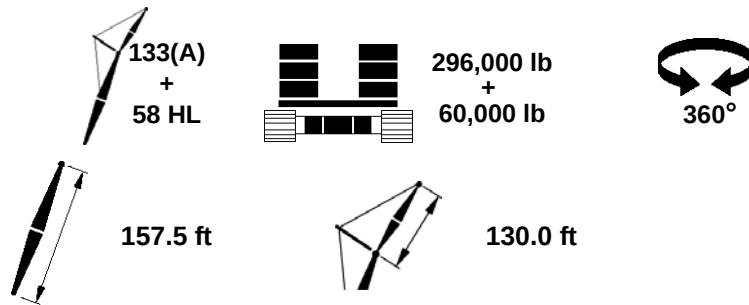
	8°			20°		
	ft	ft	lb	ft	ft	lb
75	81.1	301.4	113,400 *			
80	80.1	300.2	110,700 *			
85	79.1	298.9	108,100 *			
90	78.1	297.4	105,500 *			
95	77.2	295.9	103,100 *	81.5	292.1	85,000 *
100	76.2	294.3	100,100	80.5	290.4	82,900 *
105	75.1	292.6	92,600	79.4	288.7	80,400 *
110	74.1	290.8	86,000	78.4	286.8	77,900 *
115	73.1	288.9	80,000	77.4	284.9	75,600 *
120	72.1	286.9	74,500	76.3	282.9	73,500 *
125	71.1	284.7	69,500	75.3	280.7	71,400 *
130	70.0	282.5	65,000	74.2	278.4	69,400 *
135	69.0	280.2	60,800	73.2	276.1	65,600
140	67.9	277.7	56,900	72.1	273.6	61,500
145	66.8	275.2	53,400	71.0	271.0	57,700
150	65.7	272.5	50,000	69.9	268.2	54,200
155	64.7	269.7	47,000	68.8	265.4	50,900
160	63.6	266.7	44,100	67.7	262.4	47,800
165	62.4	263.6	41,400	66.5	259.3	45,000
170	61.3	260.4	38,900	65.4	256.0	42,300
175	60.2	257.1	36,500	64.2	252.6	39,700
180	59.0	253.6	34,200	63.0	249.0	37,400
185	57.8	249.9	32,100	61.8	245.3	35,100
190	56.6	246.1	30,100	60.6	241.4	33,000
195	55.4	242.1	28,200	59.4	237.3	31,000
200	54.2	238.0	26,500	58.1	233.1	29,000
205	52.9	233.6	24,800	56.8	228.7	27,200
210	51.6	229.1	23,100	55.5	224.0	25,500
215	50.3	224.3	21,600	54.2	219.1	23,800
220	49.0	219.3	20,100	52.8	214.0	22,200
225	47.6	214.1	18,700	51.4	208.6	20,700
230	46.2	208.6	17,400	49.9	203.0	19,300
235	44.7	202.8	16,100	48.4	197.0	17,900
240	43.2	196.7	14,800	46.9	190.8	16,500
245	41.7	190.3	13,600	45.3	184.1	15,200
250	40.1	183.5	12,500	43.6	177.1	14,000
255	38.4	176.3	11,400	41.9	169.5	12,800
260	36.6	168.6	10,300			
265	34.8	160.3	9,300			
270	32.8	151.4	8,300			
275	30.8	141.6	7,300			



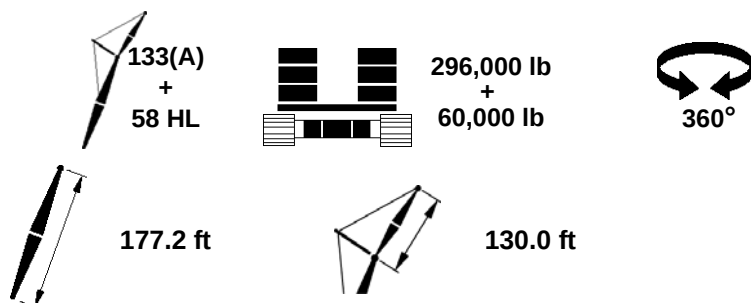
	8°			20°		
ft	o	ft	lb	o	ft	lb
75	81.7	321.6	113,400 *			
80	80.7	320.4	111,000 *			
85	79.8	319.2	108,600 *			
90	78.9	317.9	106,200 *			
95	78.0	316.4	104,000 *			
100	77.0	314.9	98,700	81.1	310.9	84,000 *
105	76.1	313.3	91,300	80.1	309.3	81,800 *
110	75.2	311.6	84,600	79.2	307.5	79,400 *
115	74.2	309.9	78,500	78.2	305.7	77,200 *
120	73.3	308.0	73,000	77.3	303.8	75,200 *
125	72.3	306.0	68,000	76.3	301.8	73,100 *
130	71.3	304.0	63,400	75.3	299.7	68,900
135	70.4	301.8	59,200	74.3	297.5	64,400
140	69.4	299.5	55,300	73.3	295.2	60,300
145	68.4	297.1	51,700	72.3	292.8	56,500
150	67.4	294.7	48,400	71.3	290.3	52,900
155	66.4	292.1	45,300	70.3	287.7	49,600
160	65.4	289.4	42,400	69.2	284.9	46,500
165	64.3	286.5	39,700	68.2	282.1	43,600
170	63.3	283.6	37,100	67.1	279.1	40,900
175	62.2	280.5	34,700	66.1	276.0	38,400
180	61.2	277.3	32,500	65.0	272.7	35,900
185	60.1	274.0	30,400	63.9	269.3	33,700
190	59.0	270.6	28,400	62.8	265.8	31,500
195	57.9	266.9	26,500	61.7	262.1	29,500
200	56.8	263.2	24,700	60.5	258.3	27,600
205	55.7	259.3	23,000	59.4	254.3	25,700
210	54.5	255.2	21,300	58.2	250.2	24,000
215	53.3	251.0	19,800	57.0	245.8	22,300
220	52.2	246.5	18,300	55.8	241.3	20,700
225	50.9	241.9	16,900	54.5	236.6	19,200
230	49.7	237.1	15,600	53.3	231.6	17,800
235	48.4	232.1	14,300	52.0	226.5	16,400
240	47.1	226.8	13,000	50.6	221.1	15,000
245	45.8	221.3	11,900	49.3	215.4	13,700
250	44.4	215.5	10,700	47.9	209.4	12,500
255	43.0	209.4	9,600	46.4	203.2	11,300
260	41.6	203.0	8,600	44.9	196.6	10,100
265	40.1	196.3	7,500	43.4	189.6	9,000
270				41.7	182.2	7,900



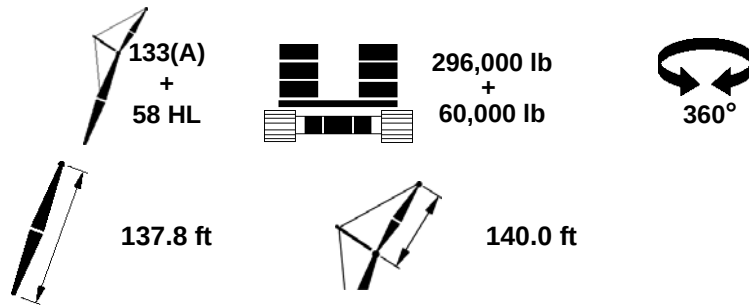
	8°			20°		
	ft	ft	lb	ft	ft	lb
70	81.7	272.5	106,500 *			
75	80.6	271.2	103,400 *			
80	79.6	269.8	100,400 *			
85	78.5	268.3	97,500 *			
90	77.3	266.7	94,800 *			
95	76.2	265.0	92,200 *	81.4	261.3	76,500 *
100	75.1	263.2	89,600 *	80.3	259.5	74,300 *
105	74.0	261.3	87,200 *	79.2	257.5	71,700 *
110	72.8	259.3	85,000 *	78.0	255.5	69,200 *
115	71.7	257.1	82,700 *	76.8	253.3	66,900 *
120	70.5	254.8	78,100	75.7	251.0	64,800 *
125	69.4	252.4	73,200	74.5	248.5	62,700 *
130	68.2	249.9	68,700	73.3	246.0	60,800 *
135	67.0	247.2	64,500	72.1	243.3	59,000 *
140	65.8	244.5	60,700	70.8	240.4	57,300 *
145	64.6	241.5	57,100	69.6	237.4	55,700 *
150	63.3	238.4	53,800	68.3	234.3	54,200 *
155	62.1	235.2	50,700	67.0	231.0	52,700 *
160	60.8	231.8	47,900	65.7	227.5	51,200
165	59.5	228.2	45,200	64.4	223.9	48,300
170	58.2	224.5	42,700	63.1	220.1	45,600
175	56.8	220.6	40,300	61.7	216.1	43,100
180	55.5	216.5	38,100	60.3	211.9	40,800
185	54.1	212.2	36,000	58.9	207.5	38,500
190	52.6	207.6	34,000	57.4	202.8	36,400
195	51.2	202.9	32,100	55.9	197.9	34,400
200	49.7	197.8	30,300	54.4	192.8	32,500
205	48.2	192.5	28,600	52.8	187.3	30,700
210	46.6	186.9	27,000	51.2	181.6	28,900
215	44.9	181.0	25,400	49.5	175.5	27,300
220	43.2	174.7	23,900	47.8	169.0	25,700
225	41.5	168.0	22,500	45.9	162.0	24,100
230	39.6	160.9	21,200	44.0	154.6	22,700
235	37.7	153.2	19,900	42.0	146.6	21,200
240	35.7	144.9	18,600			
245	33.5	135.9	17,400			
250	31.1	126.0	16,200			



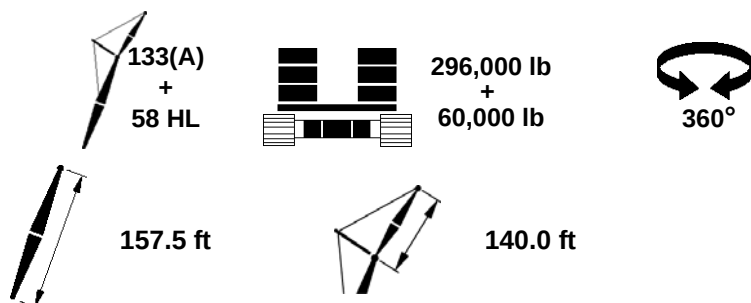
	8°			20°		
ft	o	ft	lb	o	ft	lb
75	81.5	291.3	104,100 *			
80	80.5	290.0	101,300 *			
85	79.5	288.7	98,700 *			
90	78.4	287.2	96,100 *			
95	77.4	285.6	93,700 *			
100	76.4	283.9	91,300 *	81.2	279.8	75,400 *
105	75.3	282.2	89,000 *	80.2	278.0	73,000 *
110	74.3	280.3	86,800 *	79.1	276.1	70,600 *
115	73.2	278.3	82,300	78.0	274.1	68,500 *
120	72.2	276.2	76,900	76.9	272.0	66,400 *
125	71.1	274.0	71,900	75.8	269.7	64,500 *
130	70.0	271.7	67,300	74.7	267.4	62,600 *
135	68.9	269.2	63,100	73.6	264.9	60,800 *
140	67.8	266.7	59,200	72.5	262.3	59,100 *
145	66.7	264.0	55,600	71.4	259.6	57,600 *
150	65.6	261.2	52,300	70.2	256.7	56,000 *
155	64.4	258.3	49,200	69.0	253.7	53,100
160	63.3	255.2	46,300	67.9	250.6	50,000
165	62.1	252.0	43,600	66.7	247.3	47,100
170	60.9	248.6	41,100	65.5	243.9	44,400
175	59.7	245.1	38,700	64.2	240.3	41,900
180	58.5	241.4	36,400	63.0	236.5	39,500
185	57.2	237.5	34,300	61.7	232.6	37,200
190	56.0	233.5	32,300	60.4	228.5	35,100
195	54.7	229.3	30,400	59.1	224.2	33,100
200	53.4	224.9	28,600	57.8	219.7	31,100
205	52.0	220.3	26,900	56.4	214.9	29,300
210	50.7	215.4	25,300	55.0	210.0	27,500
215	49.3	210.4	23,700	53.6	204.7	25,900
220	47.8	205.0	22,200	52.1	199.2	24,300
225	46.3	199.4	20,800	50.5	193.4	22,700
230	44.8	193.5	19,400	49.0	187.3	21,300
235	43.2	187.2	18,100	47.3	180.8	19,900
240	41.6	180.6	16,900	45.6	173.9	18,500
245	39.9	173.5	15,700	43.9	166.6	17,200
250	38.1	166.0	14,500	42.0	158.7	15,900
255	36.2	157.9	13,400			
260	34.3	149.2	12,300			
265	32.2	139.7	11,300			



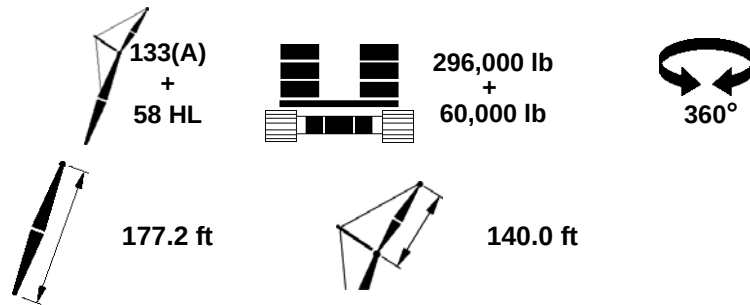
	8°			20°		
	ft	ft	lb	ft	ft	lb
75	81.9	311.6	104,900 *			
80	80.9	310.4	102,300 *			
85	80.0	309.1	99,900 *			
90	79.0	307.7	97,500 *			
95	78.0	306.3	95,200 *			
100	77.1	304.7	93,000 *	81.6	300.5	76,400 *
105	76.1	303.1	90,800 *	80.6	298.9	74,500 *
110	75.1	301.3	86,900	79.6	297.1	72,200 *
115	74.1	299.5	80,800	78.6	295.2	70,100 *
120	73.2	297.5	75,300	77.6	293.3	68,000 *
125	72.2	295.5	70,300	76.6	291.2	66,100 *
130	71.2	293.3	65,700	75.6	289.0	64,300 *
135	70.1	291.1	61,500	74.6	286.7	62,600 *
140	69.1	288.7	57,700	73.6	284.3	60,900 *
145	68.1	286.3	54,100	72.5	281.8	58,700
150	67.1	283.7	50,700	71.5	279.2	55,200
155	66.0	281.0	47,600	70.4	276.5	51,900
160	65.0	278.2	44,700	69.3	273.6	48,800
165	63.9	275.2	42,000	68.2	270.6	45,900
170	62.8	272.2	39,500	67.1	267.5	43,200
175	61.7	269.0	37,100	66.0	264.2	40,600
180	60.6	265.6	34,800	64.9	260.8	38,200
185	59.5	262.2	32,700	63.7	257.3	36,000
190	58.3	258.5	30,700	62.6	253.6	33,800
195	57.2	254.7	28,800	61.4	249.7	31,800
200	56.0	250.8	27,000	60.2	245.7	29,800
205	54.8	246.7	25,300	59.0	241.5	28,000
210	53.6	242.4	23,700	57.7	237.1	26,300
215	52.4	237.9	22,100	56.5	232.5	24,600
220	51.1	233.2	20,700	55.2	227.7	23,000
225	49.8	228.3	19,300	53.8	222.7	21,500
230	48.5	223.2	17,900	52.5	217.4	20,000
235	47.1	217.8	16,600	51.1	211.9	18,600
240	45.8	212.2	15,400	49.7	206.1	17,300
245	44.3	206.3	14,200	48.2	200.0	16,000
250	42.9	200.0	13,000	46.7	193.5	14,700
255	41.3	193.4	11,900	45.1	186.7	13,500
260	39.7	186.5	10,900	43.4	179.4	12,300
265	38.1	179.1	9,800	41.7	171.7	11,200
270	36.4	171.2	8,800			
275	34.6	162.7	7,900			



	8°			20°		
ft	o	ft	lb	o	ft	lb
75	81.5	281.5	96,100 *			
80	80.4	280.1	93,300 *			
85	79.4	278.7	90,600 *			
90	78.3	277.2	88,000 *			
95	77.2	275.5	85,500 *			
100	76.2	273.8	83,100 *	81.6	269.8	68,600 *
105	75.1	271.9	80,800 *	80.5	267.9	67,000 *
110	74.0	270.0	78,600 *	79.4	265.9	64,800 *
115	72.9	267.9	76,500 *	78.3	263.9	62,700 *
120	71.8	265.7	74,400 *	77.2	261.6	60,700 *
125	70.6	263.4	72,500 *	76.0	259.3	58,700 *
130	69.5	261.0	69,100 *	74.9	256.8	56,900 *
135	68.4	258.5	64,900 *	73.7	254.3	55,200 *
140	67.2	255.8	61,100 *	72.5	251.5	53,500 *
145	66.1	253.0	57,500 *	71.4	248.7	51,900 *
150	64.9	250.1	54,200 *	70.2	245.7	50,500 *
155	63.7	247.0	51,100 *	68.9	242.6	49,100 *
160	62.5	243.8	48,200 *	67.7	239.3	47,800 *
165	61.2	240.4	45,500 *	66.5	235.9	46,400 *
170	60.0	236.9	43,000 *	65.2	232.2	45,300 *
175	58.7	233.2	40,600 *	63.9	228.5	43,700 *
180	57.4	229.3	38,400 *	62.6	224.5	41,300 *
185	56.1	225.2	36,300 *	61.2	220.3	39,100 *
190	54.8	221.0	34,300 *	59.9	216.0	37,000 *
195	53.4	216.5	32,400 *	58.5	211.4	34,900 *
200	52.0	211.8	30,600 *	57.0	206.6	33,000 *
205	50.6	206.9	28,900 *	55.6	201.6	31,200 *
210	49.1	201.7	27,300 *	54.1	196.2	29,500 *
215	47.6	196.3	25,700 *	52.5	190.6	27,800 *
220	46.1	190.5	24,300 *	50.9	184.7	26,200 *
225	44.5	184.4	22,800 *	49.3	178.4	24,700 *
230	42.8	178.0	21,500 *	47.5	171.7	23,200 *
235	41.1	171.1	20,200 *	45.7	164.5	21,800 *
240	39.3	163.8	18,900 *	43.8	156.9	20,400 *
245	37.4	155.9	17,700 *	41.9	148.6	19,100 *
250	35.4	147.4	16,600 *			
255	33.2	138.2	15,400 *			
260	30.9	128.1	14,300 *			



	8°			20°		
	ft	ft	lb	ft	ft	lb
80	81.3	300.3	93,900 *			
85	80.3	298.9	91,500 *			
90	79.3	297.5	89,100 *			
95	78.3	296.0	86,700 *			
100	77.3	294.4	84,500 *			
105	76.3	292.7	82,300 *	81.4	288.3	67,700 *
110	75.3	290.9	80,200 *	80.3	286.5	66,000 *
115	74.3	289.0	78,200 *	79.3	284.5	63,900 *
120	73.3	286.9	76,300 *	78.3	282.5	62,000 *
125	72.2	284.8	72,400	77.2	280.3	60,100 *
130	71.2	282.6	67,800	76.1	278.1	58,300 *
135	70.1	280.3	63,600	75.1	275.7	56,700 *
140	69.1	277.8	59,700	74.0	273.2	55,100 *
145	68.0	275.2	56,100	72.9	270.6	53,600 *
150	66.9	272.5	52,800	71.8	267.9	52,100 *
155	65.8	269.7	49,600	70.7	265.0	50,800 *
160	64.7	266.8	46,700	69.6	262.0	49,500 *
165	63.6	263.7	44,000	68.4	258.9	47,800
170	62.5	260.5	41,500	67.3	255.6	45,100
175	61.3	257.2	39,100	66.1	252.2	42,500
180	60.2	253.7	36,800	64.9	248.6	40,100
185	59.0	250.0	34,700	63.7	244.9	37,800
190	57.8	246.2	32,700	62.5	241.0	35,700
195	56.6	242.2	30,800	61.3	236.9	33,600
200	55.3	238.1	28,900	60.0	232.7	31,700
205	54.1	233.7	27,200	58.7	228.2	29,900
210	52.8	229.2	25,600	57.4	223.5	28,100
215	51.5	224.4	24,000	56.0	218.7	26,400
220	50.1	219.4	22,600	54.6	213.5	24,800
225	48.8	214.2	21,100	53.2	208.1	23,300
230	47.3	208.7	19,800	51.8	202.5	21,800
235	45.9	202.9	18,500	50.3	196.5	20,400
240	44.4	196.9	17,200	48.7	190.2	19,000
245	42.8	190.4	16,000	47.1	183.6	17,700
250	41.2	183.6	14,900	45.4	176.5	16,500
255	39.6	176.4	13,700	43.7	168.9	15,200
260	37.8	168.7	12,700			
265	36.0	160.4	11,600			
270	34.0	151.5	10,600			
275	32.0	141.8	9,600			



	8°			20°		
ft	o	ft	lb	o	ft	lb
80	81.6	320.6	94,800 *			
85	80.7	319.3	92,500 *			
90	79.8	318.0	90,200 *			
95	78.9	316.6	88,100 *			
100	77.9	315.1	85,900 *			
105	77.0	313.5	83,900 *	81.8	309.0	68,600 *
110	76.0	311.8	81,900 *	80.8	307.3	67,100 *
115	75.1	310.0	80,000 *	79.8	305.5	65,300 *
120	74.1	308.2	75,900	78.9	303.6	63,300 *
125	73.2	306.2	70,900	77.9	301.6	61,600 *
130	72.2	304.1	66,300	76.9	299.5	59,800 *
135	71.2	302.0	62,000	75.9	297.3	58,200 *
140	70.3	299.7	58,100	74.9	295.0	56,600 *
145	69.3	297.3	54,500	73.9	292.6	55,200 *
150	68.3	294.8	51,200	72.9	290.0	53,800 *
155	67.3	292.2	48,100	71.9	287.4	52,400 *
160	66.3	289.5	45,100	70.9	284.7	49,500
165	65.2	286.7	42,400	69.8	281.8	46,600
170	64.2	283.8	39,900	68.8	278.8	43,800
175	63.1	280.7	37,500	67.7	275.7	41,300
180	62.1	277.5	35,200	66.6	272.4	38,900
185	61.0	274.2	33,100	65.5	269.0	36,600
190	59.9	270.7	31,100	64.4	265.5	34,400
195	58.8	267.1	29,200	63.3	261.8	32,400
200	57.7	263.4	27,400	62.1	258.0	30,400
205	56.6	259.5	25,600	61.0	254.0	28,600
210	55.4	255.4	24,000	59.8	249.8	26,800
215	54.3	251.2	22,500	58.6	245.5	25,100
220	53.1	246.7	21,000	57.4	241.0	23,500
225	51.8	242.1	19,600	56.1	236.2	22,000
230	50.6	237.3	18,200	54.9	231.3	20,500
235	49.3	232.3	16,900	53.6	226.1	19,100
240	48.0	227.0	15,700	52.2	220.7	17,800
245	46.7	221.5	14,500	50.9	215.0	16,500
250	45.3	215.7	13,300	49.5	209.1	15,200
255	43.9	209.7	12,200	48.0	202.8	14,000
260	42.5	203.3	11,200	46.5	196.2	12,900
265	41.0	196.5	10,100	44.9	189.2	11,700
270	39.4	189.4	9,100	43.3	181.7	10,600
275	37.8	181.8	8,200	41.6	173.8	9,600
280	36.1	173.8	7,200			