

Liftcrane Boom Capacities With Luffing Jib Attached

MLC200 SERIES 2

Boom No. B10:76A

Luffing Jib No. 135

149,600 lb Crane Counterweight

60,400 lb Carbody Counterweight

360 Degree Rating



LIFTING CAPACITIES: Lifting capacities for various boom lengths, luffing jib lengths, boom-to-luffing jib angles, and boom 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 point sheaves is considered part of load. Weight of luffing jib and 3,000 lb suspended beneath luffing jib point sheaves have been included in capacity determination. Boom is 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. Supporting surface and bearing turntable are to be level within a tolerance of 1/2 in. in 10 ft. During operation, luffing jib must be maintained at proper boom-to-luffing jib angle shown in table. Refer to Boom Rigging **No. 80149429**, Luffing Jib Rigging **No. 80149433**, Wire Rope Specifications chart **No. A037-A**, Counterweight Arrangements chart **No. A004-A**, Luffing Jib Raising Procedure chart **No. A032-A**, and Wind Conditions chart **No. A031-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 and luffing jib must be within angle range shown in capacity chart. Refer to Maximum Allowable Travel Specifications chart **No. A033-A**.



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



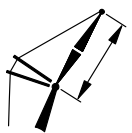
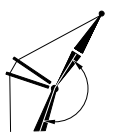
BOOM ANGLE: Boom angle in degrees (°) is angle between horizontal and centerline of boom butt and inserts, and is an indication of operating radius. In all cases, operating radius shall govern capacity.



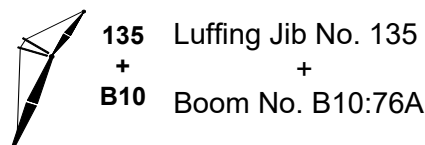
BOOM POINT ELEVATION: Boom point elevation is vertical distance from ground level to centerline of boom point shaft.

MACHINE EQUIPMENT: Machine equipped with 27 ft 2 in. crawlers, 48 in. treads, 10 ft 3 in. retractable gantry, 27 ft live mast, 20 part boom hoist reeving, boom support straps, 8 part luffing jib hoist reeving, two 1-1/2 in. luffing jib pendants and backstays.

Consult chart **No. A028-A** for luffing jib capacities.

Luffing Jib Position During Operation	
	
Luffing Jib Length Feet	Boom-to-Luffing Jib Angle Degrees
70	140
80 - 90	150
100 - 120	160
130 - 170	168

Explanation of Symbols



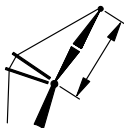
135 Luffing Jib No. 135
+
B10 Boom No. B10:76A



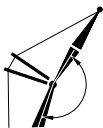
Crane Counterweight
+
Carbody Counterweight



360 Degree Rating



Luffing Jib Length



Boom-to-Luffing Jib Angle



Boom Length



Operating Radius
(see page 1)



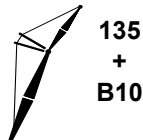
Boom Angle
(see page 1)



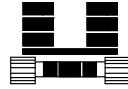
Boom Point Elevation
(see page 1)



Lifting Capacities
(see page 1)



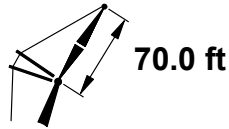
135
+
B10



149,600 lb
+
60,400 lb



360°



70.0 ft



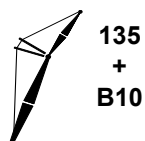
140°

65.6 ft			
ft	°	ft	lb
15	83.2	73.1	360,500
16	82.3	72.9	338,400
18	80.5	72.5	300,800
20	78.8	72.1	270,200
25	74.2	70.7	213,400
29	70.5	69.3	180,600

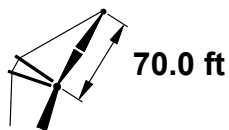
75.5 ft			
ft	°	ft	lb
17	82.6	82.7	318,600
18	81.8	82.6	300,800
20	80.3	82.2	270,200
25	76.3	81.0	213,500
30	72.4	79.4	173,600
32	70.8	78.7	160,100

85.3 ft			
ft	°	ft	lb
18	82.8	92.5	301,000
20	81.4	92.2	270,300
25	78.0	91.1	213,700
30	74.5	89.8	173,900
35	70.9	88.1	137,900
36	70.2	87.7	131,400

REFERENCE



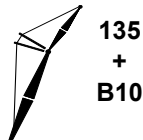
149,600 lb
+
60,400 lb



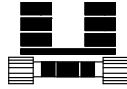
95.1 ft			
ft	°	ft	lb
19	82.9	102.3	284,700
20	82.3	102.2	270,100
25	79.2	101.2	213,500
30	76.1	100.0	173,600
35	73.0	98.5	138,400
39	70.4	97.1	114,900

105.0 ft			
ft	°	ft	lb
20	83.0	112.1	270,300
25	80.3	111.3	213,700
30	77.5	110.2	173,900
35	74.6	108.8	138,800
40	71.8	107.2	110,500
43	70.0	106.1	97,500

114.8 ft			
ft	°	ft	lb
21	83.1	121.9	256,600
25	81.1	121.3	213,300
30	78.6	120.3	173,500
35	76.0	119.1	139,000
40	73.4	117.6	110,600
45	70.7	115.8	90,200
46	70.2	115.5	86,700



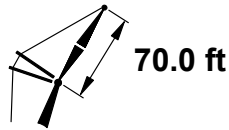
135
+
B10



149,600 lb
+
60,400 lb



360°



70.0 ft



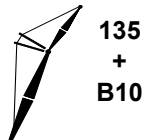
140°

124.7 ft			
ft	°	ft	lb
22	83.2	131.7	236,500
25	81.8	131.3	213,200
30	79.5	130.3	173,300
35	77.1	129.2	139,200
40	74.7	127.9	110,700
45	72.3	126.3	90,200
49	70.4	124.9	77,600

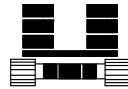
134.5 ft			
ft	°	ft	lb
24	82.8	141.4	219,700
25	82.4	141.2	212,700
30	80.3	140.4	172,700
35	78.1	139.3	139,300
40	75.9	138.1	110,700
45	73.7	136.6	90,200
50	71.4	135.0	74,700
53	70.1	133.9	67,200

144.4 ft			
ft	°	ft	lb
25	82.9	151.2	194,400
30	80.9	150.4	172,700
35	78.9	149.4	139,400
40	76.9	148.3	110,800
45	74.8	146.9	90,300
50	72.7	145.4	74,800
55	70.6	143.6	62,800
56	70.2	143.3	60,700

REFERENCE



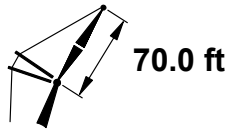
135
+
B10



149,600 lb
+
60,400 lb



360°



70.0 ft

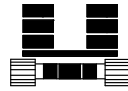
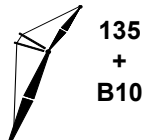


140°

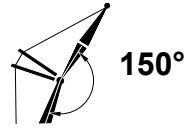
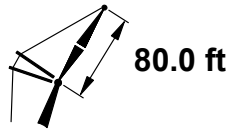
154.2 ft			
ft	o	ft	lb
26	83.0	161.0	182,900
30	81.5	160.4	170,500
35	79.6	159.5	139,400
40	77.7	158.4	110,800
45	75.8	157.1	90,200
50	73.9	155.7	74,700
55	71.9	154.1	62,600
59	70.3	152.6	54,700

164.0 ft			
ft	o	ft	lb
27	83.1	170.8	172,000
30	82.0	170.3	164,000
35	80.3	169.5	139,400
40	78.5	168.5	110,700
45	76.7	167.3	90,100
50	74.9	166.0	74,600
55	73.0	164.4	62,400
60	71.2	162.8	52,700
63	70.1	161.6	47,800

173.9 ft			
ft	o	ft	lb
28	83.1	180.6	163,400
30	82.5	180.3	158,300
35	80.8	179.5	139,400
40	79.1	178.5	110,600
45	77.4	177.4	89,900
50	75.7	176.2	74,400
55	74.0	174.7	62,200
60	72.3	173.2	52,500
65	70.6	171.4	44,500
66	70.2	171.0	43,100



149,600 lb
+
60,400 lb

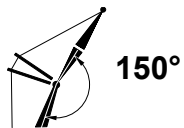
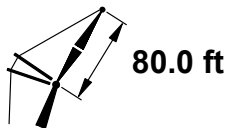
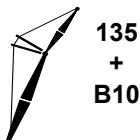


65.6 ft			
ft	°	ft	lb
15	83.2	73.1	360,800
16	82.3	72.9	338,600
18	80.5	72.5	300,800
20	78.8	72.1	269,900
25	74.2	70.7	212,700
30	69.6	68.9	172,100
35	64.8	66.6	134,900

75.5 ft			
ft	°	ft	lb
17	82.6	82.7	318,700
18	81.8	82.6	300,900
20	80.3	82.2	270,000
25	76.3	81.0	212,900
30	72.4	79.4	172,500
35	68.3	77.5	136,000
40	64.1	75.1	107,600

85.3 ft			
ft	°	ft	lb
18	82.8	92.5	301,100
20	81.4	92.2	270,300
25	78.0	91.1	213,300
30	74.5	89.8	173,000
35	70.9	88.1	137,000
40	67.3	86.0	108,500
44	64.3	84.1	91,700

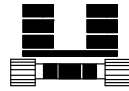
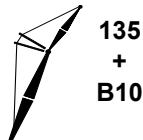
REFERENCE



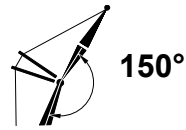
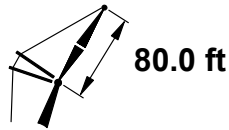
95.1 ft			
ft	°	ft	lb
19	82.9	102.3	284,800
20	82.3	102.2	270,100
25	79.2	101.2	213,200
30	76.1	100.0	172,900
35	73.0	98.5	137,600
40	69.8	96.7	109,100
45	66.5	94.5	88,600
48	64.5	93.1	78,800

105.0 ft			
ft	°	ft	lb
20	83.0	112.1	270,300
25	80.3	111.3	213,400
30	77.5	110.2	173,300
35	74.6	108.8	138,200
40	71.8	107.2	109,600
45	68.8	105.3	89,100
50	65.9	103.1	73,700
53	64.0	101.6	66,100

114.8 ft			
ft	°	ft	lb
21	83.1	121.9	256,700
25	81.1	121.3	213,200
30	78.6	120.3	172,900
35	76.0	119.1	138,500
40	73.4	117.6	109,900
45	70.7	115.8	89,300
50	68.1	113.9	73,800
55	65.3	111.6	61,700
57	64.2	110.6	57,600



149,600 lb
+
60,400 lb

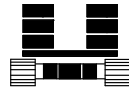
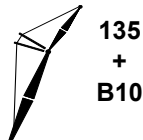


124.7 ft			
ft	°	ft	lb
22	83.2	131.7	236,700
25	81.8	131.3	213,000
30	79.5	130.3	172,800
35	77.1	129.2	138,800
40	74.7	127.9	110,100
45	72.3	126.3	89,500
50	69.9	124.5	74,000
55	67.4	122.4	61,800
60	64.9	120.1	52,100
61	64.4	119.6	50,400

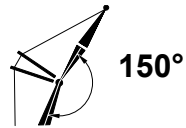
134.5 ft			
ft	°	ft	lb
24	82.8	141.4	219,800
25	82.4	141.2	212,700
30	80.3	140.4	172,300
35	78.1	139.3	138,900
40	75.9	138.1	110,200
45	73.7	136.6	89,500
50	71.4	135.0	73,900
55	69.1	133.1	61,800
60	66.8	131.0	52,000
65	64.5	128.6	44,100

144.4 ft			
ft	°	ft	lb
25	82.9	151.2	194,400
30	80.9	150.4	172,400
35	78.9	149.4	139,100
40	76.9	148.3	110,300
45	74.8	146.9	89,700
50	72.7	145.4	74,100
55	70.6	143.6	62,000
60	68.5	141.7	52,200
65	66.3	139.5	44,200
70	64.1	137.1	37,600

REFERENCE ONLY



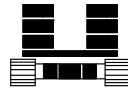
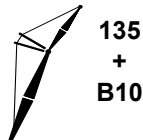
149,600 lb
+
60,400 lb



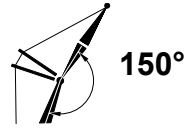
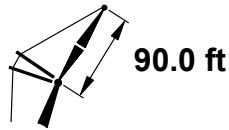
154.2 ft			
ft	°	ft	lb
26	83.0	161.0	182,900
30	81.5	160.4	170,400
35	79.6	159.5	139,200
40	77.7	158.4	110,300
45	75.8	157.1	89,600
50	73.9	155.7	74,000
55	71.9	154.1	61,800
60	69.9	152.3	52,100
65	67.9	150.3	44,100
70	65.9	148.0	37,400
74	64.3	146.1	32,800

164.0 ft			
ft	°	ft	lb
27	83.1	170.8	171,900
30	82.0	170.3	163,900
35	80.3	169.5	139,200
40	78.5	168.5	110,300
45	76.7	167.3	89,600
50	74.9	166.0	73,900
55	73.0	164.4	61,700
60	71.2	162.8	52,000
65	69.3	160.9	43,900
70	67.4	158.8	37,200
75	65.5	156.6	31,600
78	64.4	155.1	28,600

173.9 ft			
ft	°	ft	lb
28	83.1	180.6	163,200
30	82.5	180.3	158,100
35	80.8	179.5	139,200
40	79.1	178.5	110,200
45	77.4	177.4	89,400
50	75.7	176.2	73,800
55	74.0	174.7	61,600
60	72.3	173.2	51,700
65	70.6	171.4	43,700
70	68.8	169.5	37,000
75	67.0	167.4	31,300
80	65.2	165.1	26,300
83	64.1	163.6	23,300



149,600 lb
+
60,400 lb

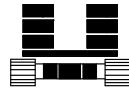
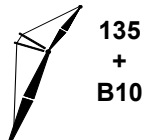


65.6 ft			
ft	°	ft	lb
15	83.2	73.1	357,500
16	82.3	72.9	335,400
18	80.5	72.5	297,700
20	78.8	72.1	267,000
25	74.2	70.7	210,000
30	69.6	68.9	168,900
35	64.8	66.6	131,800

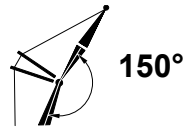
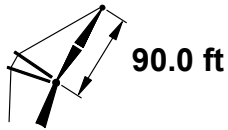
75.5 ft			
ft	°	ft	lb
17	82.6	82.7	315,700
18	81.8	82.6	297,900
20	80.3	82.2	267,200
25	76.3	81.0	210,400
30	72.4	79.4	169,400
35	68.3	77.5	133,100
40	64.1	75.1	105,000

85.3 ft			
ft	°	ft	lb
18	82.8	92.5	298,200
20	81.4	92.2	267,500
25	78.0	91.1	210,800
30	74.5	89.8	170,000
35	70.9	88.1	134,100
40	67.3	86.0	106,000
44	64.3	84.1	89,300

REFERENCE



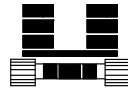
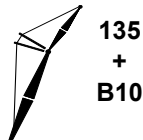
149,600 lb
+
60,400 lb



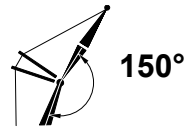
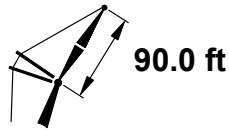
95.1 ft			
ft	°	ft	lb
19	82.9	102.3	282,000
20	82.3	102.2	267,400
25	79.2	101.2	210,800
30	76.1	100.0	169,900
35	73.0	98.5	134,800
40	69.8	96.7	106,600
45	66.5	94.5	86,300
48	64.5	93.1	76,600

105.0 ft			
ft	°	ft	lb
20	83.0	112.1	267,700
25	80.3	111.3	211,100
30	77.5	110.2	170,400
35	74.6	108.8	135,500
40	71.8	107.2	107,200
45	68.8	105.3	86,900
50	65.9	103.1	71,600
53	64.0	101.6	64,100

114.8 ft			
ft	°	ft	lb
21	83.1	121.9	254,100
25	81.1	121.3	210,800
30	78.6	120.3	170,100
35	76.0	119.1	135,900
40	73.4	117.6	107,500
45	70.7	115.8	87,100
50	68.1	113.9	71,800
55	65.3	111.6	59,800
57	64.2	110.6	55,700



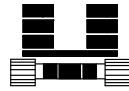
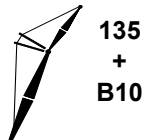
149,600 lb
+
60,400 lb



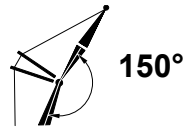
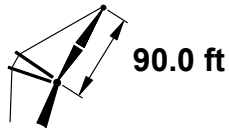
124.7 ft			
ft	°	ft	lb
22	83.2	131.7	234,400
25	81.8	131.3	210,800
30	79.5	130.3	170,000
35	77.1	129.2	136,200
40	74.7	127.9	107,800
45	72.3	126.3	87,300
50	69.9	124.5	72,000
55	67.4	122.4	60,000
60	64.9	120.1	50,400
61	64.4	119.6	48,700

134.5 ft			
ft	°	ft	lb
24	82.8	141.4	217,500
25	82.4	141.2	210,400
30	80.3	140.4	169,500
35	78.1	139.3	136,400
40	75.9	138.1	107,900
45	73.7	136.6	87,400
50	71.4	135.0	72,000
55	69.1	133.1	60,000
60	66.8	131.0	50,300
65	64.5	128.6	42,400

144.4 ft			
ft	°	ft	lb
25	82.9	151.2	192,200
30	80.9	150.4	169,700
35	78.9	149.4	136,600
40	76.9	148.3	108,100
45	74.8	146.9	87,600
50	72.7	145.4	72,200
55	70.6	143.6	60,200
60	68.5	141.7	50,500
65	66.3	139.5	42,600
70	64.1	137.1	36,000



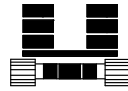
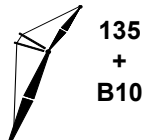
149,600 lb
+
60,400 lb



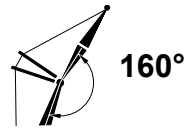
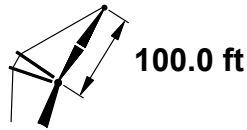
154.2 ft			
ft	°	ft	lb
26	83.0	161.0	180,800
30	81.5	160.4	168,400
35	79.6	159.5	136,700
40	77.7	158.4	108,100
45	75.8	157.1	87,600
50	73.9	155.7	72,100
55	71.9	154.1	60,100
60	69.9	152.3	50,400
65	67.9	150.3	42,500
70	65.9	148.0	35,900
74	64.3	146.1	31,300

164.0 ft			
ft	°	ft	lb
27	83.1	170.8	169,900
30	82.0	170.3	161,900
35	80.3	169.5	136,700
40	78.5	168.5	108,100
45	76.7	167.3	87,600
50	74.9	166.0	72,100
55	73.0	164.4	60,000
60	71.2	162.8	50,300
65	69.3	160.9	42,400
70	67.4	158.8	35,800
75	65.5	156.6	30,100
78	64.4	155.1	27,100

173.9 ft			
ft	°	ft	lb
28	83.1	180.6	161,300
30	82.5	180.3	156,200
35	80.8	179.5	136,800
40	79.1	178.5	108,100
45	77.4	177.4	87,500
50	75.7	176.2	72,000
55	74.0	174.7	59,800
60	72.3	173.2	50,100
65	70.6	171.4	42,200
70	68.8	169.5	35,500
75	67.0	167.4	29,900
80	65.2	165.1	24,500
83	64.1	163.6	21,600



149,600 lb
+
60,400 lb

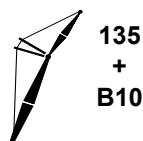


65.6 ft			
ft	°	ft	lb
15	83.2	73.1	360,200
16	82.3	72.9	337,700
18	80.5	72.5	299,600
20	78.8	72.1	268,400
25	74.2	70.7	210,800
30	69.6	68.9	169,000
35	64.8	66.6	131,700
40	59.8	63.7	103,200
42	57.7	62.4	94,200

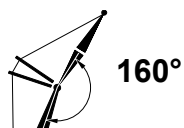
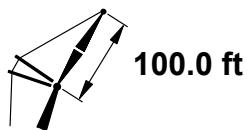
75.5 ft			
ft	°	ft	lb
17	82.6	82.7	317,900
18	81.8	82.6	299,900
20	80.3	82.2	268,800
25	76.3	81.0	211,300
30	72.4	79.4	169,800
35	68.3	77.5	133,200
40	64.1	75.1	104,700
45	59.7	72.2	84,100
47	57.9	70.9	77,500

85.3 ft			
ft	°	ft	lb
18	82.8	92.5	300,300
20	81.4	92.2	269,200
25	78.0	91.1	211,800
30	74.5	89.8	170,600
35	70.9	88.1	134,600
40	67.3	86.0	105,900
45	63.6	83.6	85,300
50	59.7	80.7	69,800
53	57.3	78.7	62,200

REFERENCE



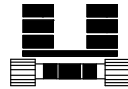
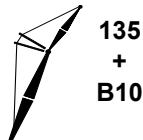
149,600 lb
+
60,400 lb



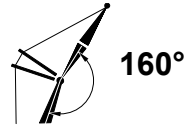
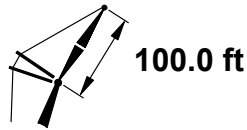
95.1 ft			
ft	°	ft	lb
19	82.9	102.3	284,000
20	82.3	102.2	269,200
25	79.2	101.2	211,900
30	76.1	100.0	170,700
35	73.0	98.5	135,400
40	69.8	96.7	106,700
45	66.5	94.5	86,100
50	63.1	92.0	70,500
55	59.7	89.2	58,400
58	57.5	87.2	52,300

105.0 ft			
ft	°	ft	lb
20	83.0	112.1	269,600
25	80.3	111.3	212,300
30	77.5	110.2	171,300
35	74.6	108.8	136,300
40	71.8	107.2	107,500
45	68.8	105.3	86,900
50	65.9	103.1	71,300
55	62.8	100.5	59,200
60	59.6	97.6	49,400
64	57.0	95.1	42,900

114.8 ft			
ft	°	ft	lb
21	83.1	121.9	255,900
25	81.1	121.3	212,100
30	78.6	120.3	171,100
35	76.0	119.1	136,800
40	73.4	117.6	108,000
45	70.7	115.8	87,200
50	68.1	113.9	71,600
55	65.3	111.6	59,500
60	62.5	109.0	49,700
65	59.6	106.1	41,700
69	57.3	103.6	36,300



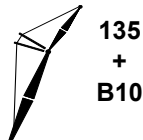
149,600 lb
+
60,400 lb



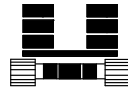
124.7 ft			
ft	°	ft	lb
22	83.2	131.7	236,200
25	81.8	131.3	212,100
30	79.5	130.3	171,100
35	77.1	129.2	137,200
40	74.7	127.9	108,300
45	72.3	126.3	87,600
50	69.9	124.5	72,000
55	67.4	122.4	59,800
60	64.9	120.1	50,000
65	62.3	117.5	42,000
70	59.6	114.6	35,300
74	57.4	112.0	30,600

134.5 ft			
ft	°	ft	lb
24	82.8	141.4	219,300
25	82.4	141.2	211,800
30	80.3	140.4	170,800
35	78.1	139.3	137,500
40	75.9	138.1	108,500
45	73.7	136.6	87,700
50	71.4	135.0	72,100
55	69.1	133.1	59,800
60	66.8	131.0	50,000
65	64.5	128.6	42,000
70	62.1	126.0	35,300
75	59.6	123.1	29,600
80	57.1	119.9	24,700

144.4 ft			
ft	°	ft	lb
25	82.9	151.2	193,800
30	80.9	150.4	171,000
35	78.9	149.4	137,800
40	76.9	148.3	108,800
45	74.8	146.9	88,000
50	72.7	145.4	72,400
55	70.6	143.6	60,100
60	68.5	141.7	50,300
65	66.3	139.5	42,300
70	64.1	137.1	35,600
75	61.9	134.5	29,900
80	59.6	131.6	25,000
85	57.2	128.4	20,100



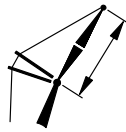
135
+
B10



149,600 lb
+
60,400 lb



360°



100.0 ft

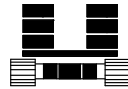
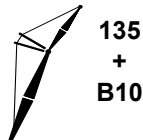


160°

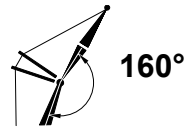
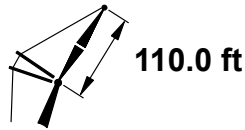
154.2 ft			
ft	°	ft	lb
26	83.0	161.0	182,200
30	81.5	160.4	169,600
35	79.6	159.5	137,900
40	77.7	158.4	108,900
45	75.8	157.1	88,100
50	73.9	155.7	72,400
55	71.9	154.1	60,100
60	69.9	152.3	50,300
65	67.9	150.3	42,200
70	65.9	148.0	35,500
75	63.8	145.6	29,800
80	61.7	142.9	24,600
85	59.6	140.0	19,700
90	57.4	136.9	15,400

164.0 ft			
ft	°	ft	lb
27	83.1	170.8	171,200
30	82.0	170.3	163,100
35	80.3	169.5	138,000
40	78.5	168.5	109,000
45	76.7	167.3	88,100
50	74.9	166.0	72,400
55	73.0	164.4	60,100
60	71.2	162.8	50,200
65	69.3	160.9	42,200
70	67.4	158.8	35,400
75	65.5	156.6	29,700
80	63.6	154.1	24,300
85	61.6	151.4	19,400
90	59.6	148.5	15,200
95	57.5	145.4	11,400
96	57.1	144.7	10,700

173.9 ft			
ft	°	ft	lb
28	83.1	180.6	162,400
30	82.5	180.3	157,300
35	80.8	179.5	138,100
40	79.1	178.5	109,000
45	77.4	177.4	88,100
50	75.7	176.2	72,300
55	74.0	174.7	60,000
60	72.3	173.2	50,100
65	70.6	171.4	42,000
70	68.8	169.5	35,300
75	67.0	167.4	29,400
80	65.2	165.1	23,800
85	63.4	162.6	19,000
90	61.5	159.9	14,700
95	59.6	157.0	10,900
100	57.6	153.8	7,500
101	57.2	153.2	6,900



149,600 lb
+
60,400 lb

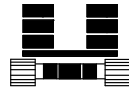
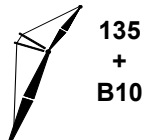


65.6 ft			
ft	°	ft	lb
15	83.2	73.1	357,900
16	82.3	72.9	335,500
18	80.5	72.5	297,500
20	78.8	72.1	266,400
25	74.2	70.7	208,500
30	69.6	68.9	166,800
35	64.8	66.6	129,300
40	59.8	63.7	101,100
42	57.7	62.4	92,200

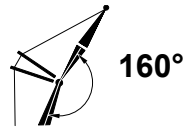
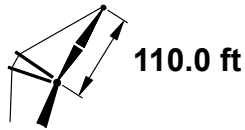
75.5 ft			
ft	°	ft	lb
17	82.6	82.7	315,900
18	81.8	82.6	297,900
20	80.3	82.2	266,900
25	76.3	81.0	209,200
30	72.4	79.4	167,700
35	68.3	77.5	131,100
40	64.1	75.1	102,700
45	59.7	72.2	82,300
47	57.9	70.9	75,700

85.3 ft			
ft	°	ft	lb
18	82.8	92.5	298,400
20	81.4	92.2	267,400
25	78.0	91.1	210,000
30	74.5	89.8	168,500
35	70.9	88.1	132,500
40	67.3	86.0	104,100
45	63.6	83.6	83,600
50	59.7	80.7	68,300
53	57.3	78.7	60,700

REFERENCE ONLY



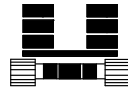
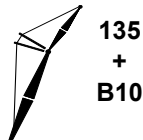
149,600 lb
+
60,400 lb



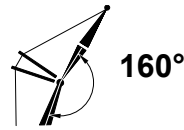
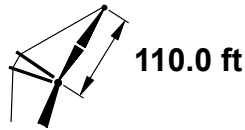
95.1 ft			
ft	°	ft	lb
19	82.9	102.3	282,200
20	82.3	102.2	267,400
25	79.2	101.2	210,200
30	76.1	100.0	168,800
35	73.0	98.5	133,400
40	69.8	96.7	104,900
45	66.5	94.5	84,500
50	63.1	92.0	69,000
55	59.7	89.2	57,000
58	57.5	87.2	51,000

105.0 ft			
ft	°	ft	lb
20	83.0	112.1	267,800
25	80.3	111.3	210,700
30	77.5	110.2	169,400
35	74.6	108.8	134,400
40	71.8	107.2	105,800
45	68.8	105.3	85,300
50	65.9	103.1	69,900
55	62.8	100.5	57,800
60	59.6	97.6	48,200
64	57.0	95.1	41,700

114.8 ft			
ft	°	ft	lb
21	83.1	121.9	254,200
25	81.1	121.3	210,600
30	78.6	120.3	169,300
35	76.0	119.1	134,900
40	73.4	117.6	106,300
45	70.7	115.8	85,700
50	68.1	113.9	70,300
55	65.3	111.6	58,200
60	62.5	109.0	48,500
65	59.6	106.1	40,500
69	57.3	103.6	35,100



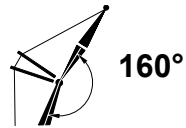
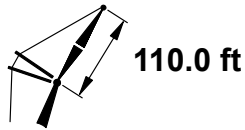
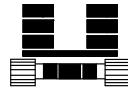
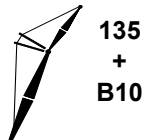
149,600 lb
+
60,400 lb



124.7 ft			
ft	°	ft	lb
22	83.2	131.7	234,200
25	81.8	131.3	210,600
30	79.5	130.3	169,300
35	77.1	129.2	135,400
40	74.7	127.9	106,700
45	72.3	126.3	86,100
50	69.9	124.5	70,600
55	67.4	122.4	58,500
60	64.9	120.1	48,800
65	62.3	117.5	40,800
70	59.6	114.6	34,200
74	57.4	112.0	29,600

134.5 ft			
ft	°	ft	lb
24	82.8	141.4	217,200
25	82.4	141.2	210,200
30	80.3	140.4	169,000
35	78.1	139.3	135,700
40	75.9	138.1	107,000
45	73.7	136.6	86,300
50	71.4	135.0	70,800
55	69.1	133.1	58,600
60	66.8	131.0	48,900
65	64.5	128.6	40,900
70	62.1	126.0	34,200
75	59.6	123.1	28,600
80	57.1	119.9	23,500

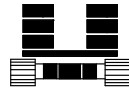
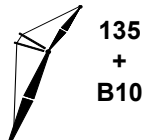
144.4 ft			
ft	°	ft	lb
25	82.9	151.2	191,900
30	80.9	150.4	169,200
35	78.9	149.4	136,000
40	76.9	148.3	107,300
45	74.8	146.9	86,600
50	72.7	145.4	71,100
55	70.6	143.6	58,900
60	68.5	141.7	49,200
65	66.3	139.5	41,200
70	64.1	137.1	34,600
75	61.9	134.5	28,900
80	59.6	131.6	23,700
85	57.2	128.4	18,900



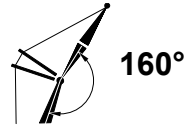
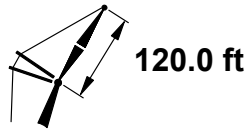
154.2 ft			
ft	°	ft	lb
26	83.0	161.0	180,400
30	81.5	160.4	167,800
35	79.6	159.5	136,200
40	77.7	158.4	107,400
45	75.8	157.1	86,700
50	73.9	155.7	71,100
55	71.9	154.1	59,000
60	69.9	152.3	49,200
65	67.9	150.3	41,200
70	65.9	148.0	34,500
75	63.8	145.6	28,800
80	61.7	142.9	23,400
85	59.6	140.0	18,600
90	57.4	136.9	14,300

164.0 ft			
ft	°	ft	lb
27	83.1	170.8	169,500
30	82.0	170.3	161,400
35	80.3	169.5	136,400
40	78.5	168.5	107,500
45	76.7	167.3	86,800
50	74.9	166.0	71,200
55	73.0	164.4	59,000
60	71.2	162.8	49,200
65	69.3	160.9	41,200
70	67.4	158.8	34,500
75	65.5	156.6	28,600
80	63.6	154.1	23,100
85	61.6	151.4	18,300
90	59.6	148.5	14,100
95	57.5	145.4	10,300
96	57.1	144.7	9,600

173.9 ft			
ft	°	ft	lb
28	83.1	180.6	160,800
30	82.5	180.3	155,600
35	80.8	179.5	136,500
40	79.1	178.5	107,500
45	77.4	177.4	86,800
50	75.7	176.2	71,100
55	74.0	174.7	58,900
60	72.3	173.2	49,100
65	70.6	171.4	41,000
70	68.8	169.5	34,300
75	67.0	167.4	28,200
80	65.2	165.1	22,700
85	63.4	162.6	17,900
90	61.5	159.9	13,700
95	59.6	157.0	9,900
100	57.6	153.8	6,500
101	57.2	153.2	5,900



149,600 lb
+
60,400 lb

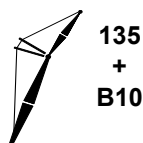


65.6 ft			
ft	°	ft	lb
15	83.2	73.1	354,600
16	82.3	72.9	332,300
18	80.5	72.5	294,400
20	78.8	72.1	263,400
25	74.2	70.7	204,600
30	69.6	68.9	163,100
35	64.8	66.6	125,800
40	59.8	63.7	97,800
42	57.7	62.4	89,000

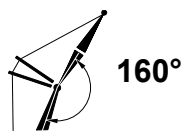
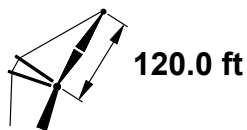
75.5 ft			
ft	°	ft	lb
17	82.6	82.7	312,800
18	81.8	82.6	294,900
20	80.3	82.2	263,900
25	76.3	81.0	205,500
30	72.4	79.4	164,100
35	68.3	77.5	127,700
40	64.1	75.1	99,600
45	59.7	72.2	79,400
47	57.9	70.9	72,800

85.3 ft			
ft	°	ft	lb
18	82.8	92.5	295,400
20	81.4	92.2	264,500
25	78.0	91.1	206,400
30	74.5	89.8	165,100
35	70.9	88.1	129,200
40	67.3	86.0	101,100
45	63.6	83.6	80,800
50	59.7	80.7	65,600
53	57.3	78.7	58,100

REFERENCE ONLY



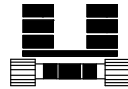
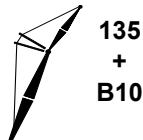
149,600 lb
+
60,400 lb



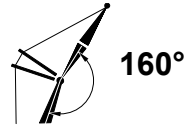
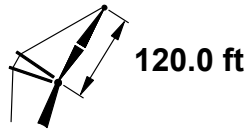
95.1 ft			
ft	°	ft	lb
19	82.9	102.3	279,300
20	82.3	102.2	264,600
25	79.2	101.2	206,700
30	76.1	100.0	165,500
35	73.0	98.5	130,300
40	69.8	96.7	102,100
45	66.5	94.5	81,800
50	63.1	92.0	66,500
55	59.7	89.2	54,500
58	57.5	87.2	48,600

105.0 ft			
ft	°	ft	lb
20	83.0	112.1	265,100
25	80.3	111.3	207,400
30	77.5	110.2	166,200
35	74.6	108.8	131,300
40	71.8	107.2	103,000
45	68.8	105.3	82,700
50	65.9	103.1	67,400
55	62.8	100.5	55,500
60	59.6	97.6	45,900
64	57.0	95.1	39,500

114.8 ft			
ft	°	ft	lb
21	83.1	121.9	251,600
25	81.1	121.3	207,300
30	78.6	120.3	166,100
35	76.0	119.1	132,000
40	73.4	117.6	103,600
45	70.7	115.8	83,200
50	68.1	113.9	67,900
55	65.3	111.6	55,900
60	62.5	109.0	46,300
65	59.6	106.1	38,400
69	57.3	103.6	33,000



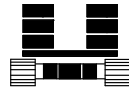
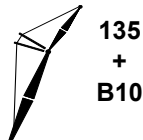
149,600 lb
+
60,400 lb



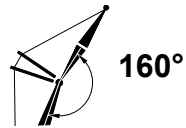
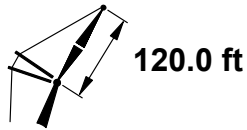
124.7 ft			
ft	°	ft	lb
22	83.2	131.7	231,300
25	81.8	131.3	207,300
30	79.5	130.3	166,300
35	77.1	129.2	132,500
40	74.7	127.9	104,100
45	72.3	126.3	83,700
50	69.9	124.5	68,300
55	67.4	122.4	56,300
60	64.9	120.1	46,700
65	62.3	117.5	38,800
70	59.6	114.6	32,200
74	57.4	112.0	27,600

134.5 ft			
ft	°	ft	lb
24	82.8	141.4	214,400
25	82.4	141.2	207,000
30	80.3	140.4	166,000
35	78.1	139.3	132,900
40	75.9	138.1	104,400
45	73.7	136.6	83,900
50	71.4	135.0	68,500
55	69.1	133.1	56,500
60	66.8	131.0	46,800
65	64.5	128.6	38,900
70	62.1	126.0	32,300
75	59.6	123.1	26,600
80	57.1	119.9	21,100

144.4 ft			
ft	°	ft	lb
25	82.9	151.2	189,300
30	80.9	150.4	166,200
35	78.9	149.4	133,300
40	76.9	148.3	104,800
45	74.8	146.9	84,300
50	72.7	145.4	68,900
55	70.6	143.6	56,800
60	68.5	141.7	47,200
65	66.3	139.5	39,200
70	64.1	137.1	32,600
75	61.9	134.5	26,800
80	59.6	131.6	21,300
85	57.2	128.4	16,600



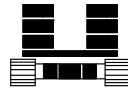
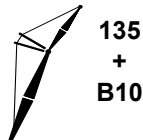
149,600 lb
+
60,400 lb



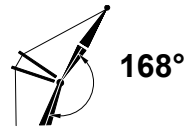
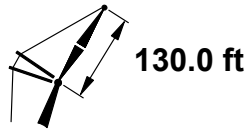
154.2 ft			
ft	°	ft	lb
26	83.0	161.0	177,900
30	81.5	160.4	165,200
35	79.6	159.5	133,500
40	77.7	158.4	105,000
45	75.8	157.1	84,400
50	73.9	155.7	68,900
55	71.9	154.1	56,900
60	69.9	152.3	47,200
65	67.9	150.3	39,300
70	65.9	148.0	32,600
75	63.8	145.6	26,500
80	61.7	142.9	21,100
85	59.6	140.0	16,300
90	57.4	136.9	12,100

164.0 ft			
ft	°	ft	lb
27	83.1	170.8	167,100
30	82.0	170.3	159,000
35	80.3	169.5	133,700
40	78.5	168.5	105,100
45	76.7	167.3	84,500
50	74.9	166.0	69,000
55	73.0	164.4	56,900
60	71.2	162.8	47,200
65	69.3	160.9	39,300
70	67.4	158.8	32,600
75	65.5	156.6	26,300
80	63.6	154.1	20,800
85	61.6	151.4	16,100
90	59.6	148.5	11,900
95	57.5	145.4	8,200
96	57.1	144.7	7,500

173.9 ft			
ft	°	ft	lb
28	83.1	180.6	158,400
30	82.5	180.3	153,200
35	80.8	179.5	133,900
40	79.1	178.5	105,200
45	77.4	177.4	84,500
50	75.7	176.2	69,000
55	74.0	174.7	56,900
60	72.3	173.2	47,100
65	70.6	171.4	39,200
70	68.8	169.5	32,200
75	67.0	167.4	25,900
80	65.2	165.1	20,400
85	63.4	162.6	15,700
90	61.5	159.9	11,500
95	59.6	157.0	7,800
100	57.6	153.8	4,400



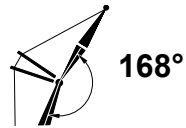
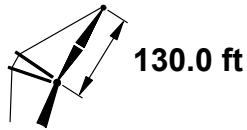
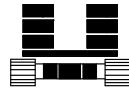
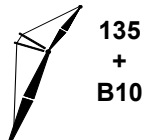
149,600 lb
+
60,400 lb



65.6 ft			
ft	°	ft	lb
15	83.2	73.1	359,300
16	82.3	72.9	336,600
18	80.5	72.5	298,000
20	78.8	72.1	266,500
25	74.2	70.7	207,300
30	69.6	68.9	164,800
35	64.8	66.6	127,000
40	59.8	63.7	98,300
45	54.4	60.3	77,600
48	51.1	57.8	67,800

75.5 ft			
ft	°	ft	lb
17	82.6	82.7	316,900
18	81.8	82.6	298,700
20	80.3	82.2	267,200
25	76.3	81.0	208,500
30	72.4	79.4	166,100
35	68.3	77.5	129,300
40	64.1	75.1	100,500
45	59.7	72.2	79,800
50	55.1	68.8	64,200
54	51.2	65.6	54,200

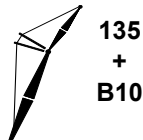
85.3 ft			
ft	°	ft	lb
18	82.8	92.5	299,300
20	81.4	92.2	267,900
25	78.0	91.1	209,600
30	74.5	89.8	167,400
35	70.9	88.1	131,100
40	67.3	86.0	102,300
45	63.6	83.6	81,500
50	59.7	80.7	65,900
55	55.6	77.3	53,700
60	51.4	73.4	43,900



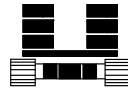
95.1 ft			
ft	°	ft	lb
19	82.9	102.3	283,000
20	82.3	102.2	268,100
25	79.2	101.2	210,000
30	76.1	100.0	167,900
35	73.0	98.5	132,400
40	69.8	96.7	103,500
45	66.5	94.5	82,700
50	63.1	92.0	67,000
55	59.7	89.2	54,800
60	56.1	85.9	44,900
65	52.3	82.1	36,900
66	51.5	81.2	35,400

105.0 ft			
ft	°	ft	lb
20	83.0	112.1	268,600
25	80.3	111.3	210,800
30	77.5	110.2	168,800
35	74.6	108.8	133,600
40	71.8	107.2	104,600
45	68.8	105.3	83,800
50	65.9	103.1	68,100
55	62.8	100.5	55,900
60	59.6	97.6	46,100
65	56.4	94.4	38,000
70	53.0	90.7	31,200
72	51.6	89.0	28,800

114.8 ft			
ft	°	ft	lb
21	83.1	121.9	255,000
25	81.1	121.3	210,800
30	78.6	120.3	168,800
35	76.0	119.1	134,400
40	73.4	117.6	105,300
45	70.7	115.8	84,400
50	68.1	113.9	68,700
55	65.3	111.6	56,400
60	62.5	109.0	46,600
65	59.6	106.1	38,500
70	56.7	102.9	31,800
75	53.6	99.2	26,000
79	51.0	96.0	21,500



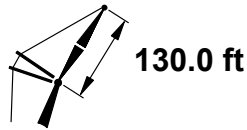
135
+
B10



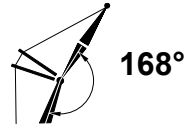
149,600 lb
+
60,400 lb



360°



130.0 ft

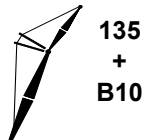


168°

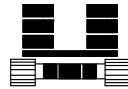
124.7 ft			
ft	°	ft	lb
22	83.2	131.7	235,100
25	81.8	131.3	210,900
30	79.5	130.3	169,000
35	77.1	129.2	135,000
40	74.7	127.9	105,900
45	72.3	126.3	85,000
50	69.9	124.5	69,300
55	67.4	122.4	57,000
60	64.9	120.1	47,100
65	62.3	117.5	39,000
70	59.6	114.6	32,200
75	56.9	111.4	26,500
80	54.1	107.8	20,800
85	51.1	103.8	15,900

134.5 ft			
ft	°	ft	lb
24	82.8	141.4	218,000
25	82.4	141.2	210,700
30	80.3	140.4	168,800
35	78.1	139.3	135,500
40	75.9	138.1	106,300
45	73.7	136.6	85,400
50	71.4	135.0	69,600
55	69.1	133.1	57,200
60	66.8	131.0	47,400
65	64.5	128.6	39,200
70	62.1	126.0	32,500
75	59.6	123.1	26,500
80	57.1	119.9	20,900
85	54.5	116.3	15,900
90	51.8	112.5	11,600
91	51.2	111.6	10,800

144.4 ft			
ft	°	ft	lb
25	82.9	151.2	192,500
30	80.9	150.4	169,200
35	78.9	149.4	136,000
40	76.9	148.3	106,800
45	74.8	146.9	85,800
50	72.7	145.4	70,000
55	70.6	143.6	57,700
60	68.5	141.7	47,800
65	66.3	139.5	39,700
70	64.1	137.1	32,900
75	61.9	134.5	26,900
80	59.6	131.6	21,300
85	57.2	128.4	16,300
90	54.8	124.9	12,000
95	52.3	121.1	8,200
97	51.3	119.5	6,800



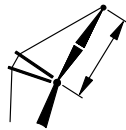
135
+
B10



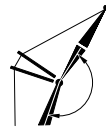
149,600 lb
+
60,400 lb



360°



130.0 ft

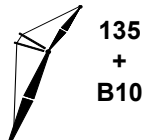


168°

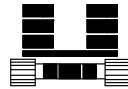
154.2 ft			
ft	°	ft	lb
26	83.0	161.0	181,000
30	81.5	160.4	168,100
35	79.6	159.5	136,300
40	77.7	158.4	107,000
45	75.8	157.1	86,000
50	73.9	155.7	70,200
55	71.9	154.1	57,800
60	69.9	152.3	47,900
65	67.9	150.3	39,800
70	65.9	148.0	33,000
75	63.8	145.6	26,700
80	61.7	142.9	21,100
85	59.6	140.0	16,200
90	57.4	136.9	11,900
95	55.1	133.4	8,000
100	52.8	129.7	4,600

164.0 ft			
ft	°	ft	lb
27	83.1	170.8	169,900
30	82.0	170.3	161,700
35	80.3	169.5	136,500
40	78.5	168.5	107,200
45	76.7	167.3	86,200
50	74.9	166.0	70,300
55	73.0	164.4	57,900
60	71.2	162.8	48,000
65	69.3	160.9	39,900
70	67.4	158.8	33,000
75	65.5	156.6	26,500
80	63.6	154.1	20,900
85	61.6	151.4	16,100
90	59.6	148.5	11,700
95	57.5	145.4	7,900
100	55.4	141.9	4,500

173.9 ft			
ft	°	ft	lb
28	83.1	180.6	161,100
30	82.5	180.3	155,800
35	80.8	179.5	136,700
40	79.1	178.5	107,300
45	77.4	177.4	86,200
50	75.7	176.2	70,300
55	74.0	174.7	57,900
60	72.3	173.2	48,000
65	70.6	171.4	39,800
70	68.8	169.5	32,700
75	67.0	167.4	26,200
80	65.2	165.1	20,600
85	63.4	162.6	15,700
90	61.5	159.9	11,400
95	59.6	157.0	7,600
100	57.6	153.8	4,200



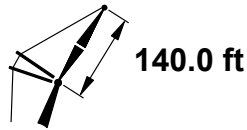
135
+
B10



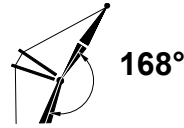
149,600 lb
+
60,400 lb



360°



140.0 ft

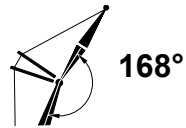
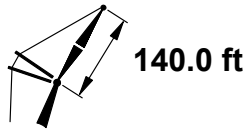
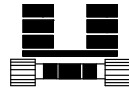
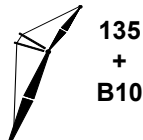


168°

65.6 ft			
ft	°	ft	lb
15	83.2	73.1	356,600
16	82.3	72.9	333,900
18	80.5	72.5	295,300
20	78.8	72.1	263,800
25	74.2	70.7	203,800
30	69.6	68.9	161,300
35	64.8	66.6	123,600
40	59.8	63.7	95,100
45	54.4	60.3	74,500
48	51.1	57.8	64,800

75.5 ft			
ft	°	ft	lb
17	82.6	82.7	314,300
18	81.8	82.6	296,100
20	80.3	82.2	264,700
25	76.3	81.0	205,200
30	72.4	79.4	162,900
35	68.3	77.5	126,100
40	64.1	75.1	97,500
45	59.7	72.2	76,900
50	55.1	68.8	61,400
54	51.2	65.6	51,500

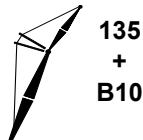
85.3 ft			
ft	°	ft	lb
18	82.8	92.5	296,800
20	81.4	92.2	265,500
25	78.0	91.1	206,500
30	74.5	89.8	164,300
35	70.9	88.1	128,200
40	67.3	86.0	99,500
45	63.6	83.6	78,800
50	59.7	80.7	63,300
55	55.6	77.3	51,100
60	51.4	73.4	41,400



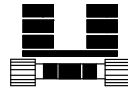
95.1 ft			
ft	°	ft	lb
19	82.9	102.3	280,700
20	82.3	102.2	265,800
25	79.2	101.2	207,000
30	76.1	100.0	165,000
35	73.0	98.5	129,600
40	69.8	96.7	100,800
45	66.5	94.5	80,100
50	63.1	92.0	64,500
55	59.7	89.2	52,400
60	56.1	85.9	42,600
65	52.3	82.1	34,600
66	51.5	81.2	33,200

105.0 ft			
ft	°	ft	lb
20	83.0	112.1	266,400
25	80.3	111.3	207,900
30	77.5	110.2	166,000
35	74.6	108.8	130,900
40	71.8	107.2	102,100
45	68.8	105.3	81,400
50	65.9	103.1	65,800
55	62.8	100.5	53,600
60	59.6	97.6	43,800
65	56.4	94.4	35,800
70	53.0	90.7	29,100
72	51.6	89.0	26,700

114.8 ft			
ft	°	ft	lb
21	83.1	121.9	252,800
25	81.1	121.3	208,000
30	78.6	120.3	166,100
35	76.0	119.1	131,800
40	73.4	117.6	102,900
45	70.7	115.8	82,100
50	68.1	113.9	66,500
55	65.3	111.6	54,300
60	62.5	109.0	44,500
65	59.6	106.1	36,400
70	56.7	102.9	29,700
75	53.6	99.2	23,500
79	51.0	96.0	18,900



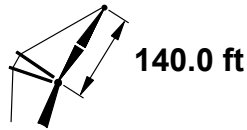
135
+
B10



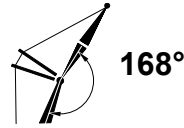
149,600 lb
+
60,400 lb



360°



140.0 ft

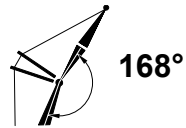
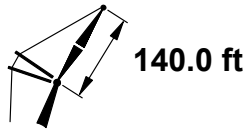
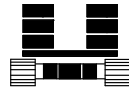
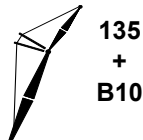


168°

124.7 ft			
ft	°	ft	lb
22	83.2	131.7	232,700
25	81.8	131.3	208,200
30	79.5	130.3	166,400
35	77.1	129.2	132,500
40	74.7	127.9	103,600
45	72.3	126.3	82,800
50	69.9	124.5	67,100
55	67.4	122.4	54,900
60	64.9	120.1	45,100
65	62.3	117.5	37,000
70	59.6	114.6	30,300
75	56.9	111.4	24,000
80	54.1	107.8	18,300
85	51.1	103.8	13,400

134.5 ft			
ft	°	ft	lb
24	82.8	141.4	215,600
25	82.4	141.2	208,000
30	80.3	140.4	166,200
35	78.1	139.3	133,100
40	75.9	138.1	104,000
45	73.7	136.6	83,200
50	71.4	135.0	67,500
55	69.1	133.1	55,200
60	66.8	131.0	45,400
65	64.5	128.6	37,300
70	62.1	126.0	30,600
75	59.6	123.1	24,000
80	57.1	119.9	18,400
85	54.5	116.3	13,500
90	51.8	112.5	9,200
91	51.2	111.6	8,400

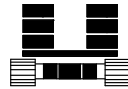
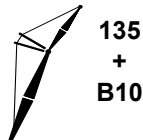
144.4 ft			
ft	°	ft	lb
25	82.9	151.2	190,300
30	80.9	150.4	166,600
35	78.9	149.4	133,600
40	76.9	148.3	104,600
45	74.8	146.9	83,700
50	72.7	145.4	68,000
55	70.6	143.6	55,700
60	68.5	141.7	45,900
65	66.3	139.5	37,800
70	64.1	137.1	31,000
75	61.9	134.5	24,500
80	59.6	131.6	18,900
85	57.2	128.4	14,000
90	54.8	124.9	9,700
95	52.3	121.1	5,900
97	51.3	119.5	4,500



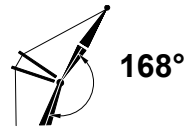
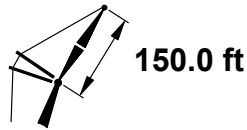
154.2 ft			
ft	°	ft	lb
26	83.0	161.0	178,800
30	81.5	160.4	165,900
35	79.6	159.5	134,000
40	77.7	158.4	104,900
45	75.8	157.1	83,900
50	73.9	155.7	68,200
55	71.9	154.1	55,900
60	69.9	152.3	46,000
65	67.9	150.3	38,000
70	65.9	148.0	30,800
75	63.8	145.6	24,400
80	61.7	142.9	18,800
85	59.6	140.0	13,900
90	57.4	136.9	9,600
95	55.1	133.4	5,800

164.0 ft			
ft	°	ft	lb
27	83.1	170.8	167,800
30	82.0	170.3	159,600
35	80.3	169.5	134,200
40	78.5	168.5	105,100
45	76.7	167.3	84,100
50	74.9	166.0	68,400
55	73.0	164.4	56,100
60	71.2	162.8	46,200
65	69.3	160.9	38,100
70	67.4	158.8	30,700
75	65.5	156.6	24,300
80	63.6	154.1	18,700
85	61.6	151.4	13,900
90	59.6	148.5	9,600
95	57.5	145.4	5,800

173.9 ft			
ft	°	ft	lb
28	83.1	180.6	159,000
30	82.5	180.3	153,800
35	80.8	179.5	134,500
40	79.1	178.5	105,300
45	77.4	177.4	84,300
50	75.7	176.2	68,400
55	74.0	174.7	56,100
60	72.3	173.2	46,200
65	70.6	171.4	37,900
70	68.8	169.5	30,400
75	67.0	167.4	24,000
80	65.2	165.1	18,400
85	63.4	162.6	13,600
90	61.5	159.9	9,300
95	59.6	157.0	5,500



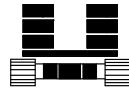
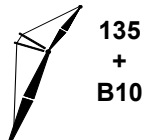
149,600 lb
+
60,400 lb



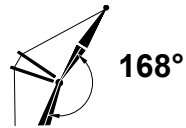
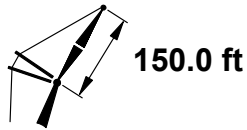
65.6 ft			
ft	°	ft	lb
15	83.2	73.1	354,600
16	82.3	72.9	331,900
18	80.5	72.5	293,400
20	78.8	72.1	261,900
25	74.2	70.7	201,300
30	69.6	68.9	159,000
35	64.8	66.6	121,100
40	59.8	63.7	92,800
45	54.4	60.3	72,400
48	51.1	57.8	62,700

75.5 ft			
ft	°	ft	lb
17	82.6	82.7	312,400
18	81.8	82.6	294,300
20	80.3	82.2	262,900
25	76.3	81.0	202,900
30	72.4	79.4	160,700
35	68.3	77.5	123,900
40	64.1	75.1	95,400
45	59.7	72.2	74,900
50	55.1	68.8	59,500
54	51.2	65.6	49,700

85.3 ft			
ft	°	ft	lb
18	82.8	92.5	295,100
20	81.4	92.2	263,800
25	78.0	91.1	204,300
30	74.5	89.8	162,200
35	70.9	88.1	126,000
40	67.3	86.0	97,500
45	63.6	83.6	77,000
50	59.7	80.7	61,500
55	55.6	77.3	49,500
60	51.4	73.4	39,800



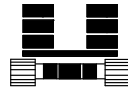
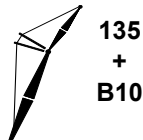
149,600 lb
+
60,400 lb



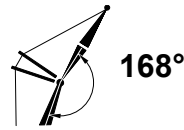
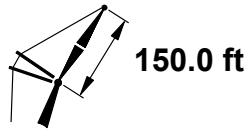
95.1 ft			
ft	°	ft	lb
19	82.9	102.3	279,000
20	82.3	102.2	264,100
25	79.2	101.2	204,900
30	76.1	100.0	163,000
35	73.0	98.5	127,600
40	69.8	96.7	99,000
45	66.5	94.5	78,400
50	63.1	92.0	62,900
55	59.7	89.2	50,800
60	56.1	85.9	41,100
65	52.3	82.1	33,100
66	51.5	81.2	31,700

105.0 ft			
ft	°	ft	lb
20	83.0	112.1	264,800
25	80.3	111.3	205,900
30	77.5	110.2	164,100
35	74.6	108.8	129,000
40	71.8	107.2	100,300
45	68.8	105.3	79,700
50	65.9	103.1	64,200
55	62.8	100.5	52,100
60	59.6	97.6	42,400
65	56.4	94.4	34,400
70	53.0	90.7	27,800
72	51.6	89.0	25,100

114.8 ft			
ft	°	ft	lb
21	83.1	121.9	251,300
25	81.1	121.3	206,100
30	78.6	120.3	164,300
35	76.0	119.1	129,900
40	73.4	117.6	101,200
45	70.7	115.8	80,500
50	68.1	113.9	65,000
55	65.3	111.6	52,900
60	62.5	109.0	43,100
65	59.6	106.1	35,100
70	56.7	102.9	28,400
75	53.6	99.2	21,900
79	51.0	96.0	17,300



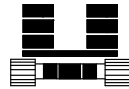
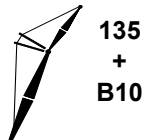
149,600 lb
+
60,400 lb



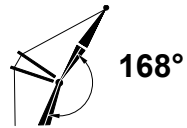
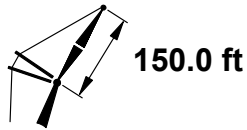
124.7 ft			
ft	°	ft	lb
22	83.2	131.7	230,800
25	81.8	131.3	206,300
30	79.5	130.3	164,600
35	77.1	129.2	130,700
40	74.7	127.9	101,900
45	72.3	126.3	81,300
50	69.9	124.5	65,700
55	67.4	122.4	53,500
60	64.9	120.1	43,800
65	62.3	117.5	35,800
70	59.6	114.6	28,900
75	56.9	111.4	22,400
80	54.1	107.8	16,800
85	51.1	103.8	11,900

134.5 ft			
ft	°	ft	lb
24	82.8	141.4	213,800
25	82.4	141.2	206,200
30	80.3	140.4	164,500
35	78.1	139.3	131,300
40	75.9	138.1	102,500
45	73.7	136.6	81,700
50	71.4	135.0	66,100
55	69.1	133.1	53,900
60	66.8	131.0	44,100
65	64.5	128.6	36,100
70	62.1	126.0	29,000
75	59.6	123.1	22,600
80	57.1	119.9	17,000
85	54.5	116.3	12,100
90	51.8	112.5	7,800
91	51.2	111.6	7,000

144.4 ft			
ft	°	ft	lb
25	82.9	151.2	188,600
30	80.9	150.4	164,900
35	78.9	149.4	131,900
40	76.9	148.3	103,000
45	74.8	146.9	82,300
50	72.7	145.4	66,700
55	70.6	143.6	54,500
60	68.5	141.7	44,700
65	66.3	139.5	36,700
70	64.1	137.1	29,500
75	61.9	134.5	23,100
80	59.6	131.6	17,500
85	57.2	128.4	12,700
90	54.8	124.9	8,400
95	52.3	121.1	4,600



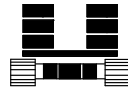
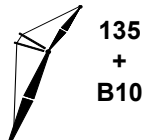
149,600 lb
+
60,400 lb



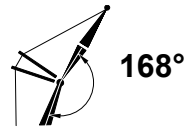
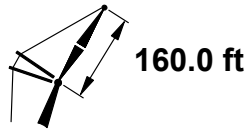
154.2 ft			
ft	°	ft	lb
26	83.0	161.0	177,200
30	81.5	160.4	164,200
35	79.6	159.5	132,300
40	77.7	158.4	103,400
45	75.8	157.1	82,600
50	73.9	155.7	66,900
55	71.9	154.1	54,700
60	69.9	152.3	44,900
65	67.9	150.3	36,800
70	65.9	148.0	29,400
75	63.8	145.6	23,000
80	61.7	142.9	17,400
85	59.6	140.0	12,600
90	57.4	136.9	8,300
95	55.1	133.4	4,600

164.0 ft			
ft	°	ft	lb
27	83.1	170.8	166,300
30	82.0	170.3	158,000
35	80.3	169.5	132,700
40	78.5	168.5	103,700
45	76.7	167.3	82,800
50	74.9	166.0	67,100
55	73.0	164.4	54,900
60	71.2	162.8	45,100
65	69.3	160.9	36,800
70	67.4	158.8	29,300
75	65.5	156.6	22,900
80	63.6	154.1	17,400
85	61.6	151.4	12,600
90	59.6	148.5	8,300
95	57.5	145.4	4,600

173.9 ft			
ft	°	ft	lb
28	83.1	180.6	157,500
30	82.5	180.3	152,300
35	80.8	179.5	132,900
40	79.1	178.5	103,900
45	77.4	177.4	83,000
50	75.7	176.2	67,200
55	74.0	174.7	55,000
60	72.3	173.2	45,100
65	70.6	171.4	36,500
70	68.8	169.5	29,100
75	67.0	167.4	22,700
80	65.2	165.1	17,200
85	63.4	162.6	12,300
90	61.5	159.9	8,100
95	59.6	157.0	4,300



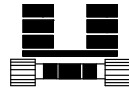
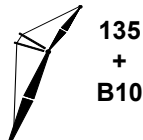
149,600 lb
+
60,400 lb



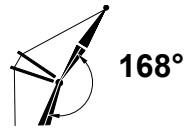
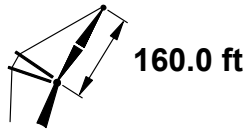
65.6 ft			
ft	°	ft	lb
15	83.2	73.1	351,700
16	82.3	72.9	329,100
18	80.5	72.5	290,600
20	78.8	72.1	259,100
25	74.2	70.7	197,700
30	69.6	68.9	155,300
35	64.8	66.6	117,600
40	59.8	63.7	89,400
45	54.4	60.3	69,100
48	51.1	57.8	59,500

75.5 ft			
ft	°	ft	lb
17	82.6	82.7	309,700
18	81.8	82.6	291,600
20	80.3	82.2	260,200
25	76.3	81.0	199,400
30	72.4	79.4	157,300
35	68.3	77.5	120,500
40	64.1	75.1	92,200
45	59.7	72.2	71,900
50	55.1	68.8	56,600
54	51.2	65.6	46,800

85.3 ft			
ft	°	ft	lb
18	82.8	92.5	292,500
20	81.4	92.2	261,200
25	78.0	91.1	201,000
30	74.5	89.8	159,000
35	70.9	88.1	122,900
40	67.3	86.0	94,500
45	63.6	83.6	74,200
50	59.7	80.7	58,800
55	55.6	77.3	46,800
60	51.4	73.4	37,200



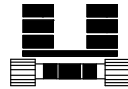
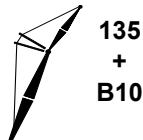
149,600 lb
+
60,400 lb



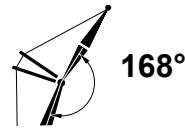
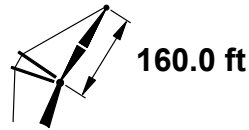
95.1 ft			
ft	°	ft	lb
19	82.9	102.3	276,500
20	82.3	102.2	261,700
25	79.2	101.2	201,700
30	76.1	100.0	159,900
35	73.0	98.5	124,600
40	69.8	96.7	96,200
45	66.5	94.5	75,700
50	63.1	92.0	60,300
55	59.7	89.2	48,300
60	56.1	85.9	38,700
65	52.3	82.1	30,700
66	51.5	81.2	29,300

105.0 ft			
ft	°	ft	lb
20	83.0	112.1	262,400
25	80.3	111.3	202,900
30	77.5	110.2	161,100
35	74.6	108.8	126,100
40	71.8	107.2	97,700
45	68.8	105.3	77,200
50	65.9	103.1	61,800
55	62.8	100.5	49,700
60	59.6	97.6	40,100
65	56.4	94.4	32,200
70	53.0	90.7	24,900
72	51.6	89.0	22,200

114.8 ft			
ft	°	ft	lb
21	83.1	121.9	249,000
25	81.1	121.3	203,100
30	78.6	120.3	161,400
35	76.0	119.1	127,200
40	73.4	117.6	98,600
45	70.7	115.8	78,100
50	68.1	113.9	62,600
55	65.3	111.6	50,600
60	62.5	109.0	40,900
65	59.6	106.1	32,900
70	56.7	102.9	25,600
75	53.6	99.2	19,100
79	51.0	96.0	14,600



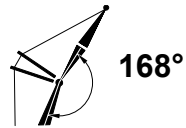
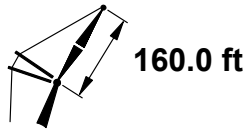
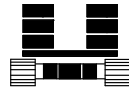
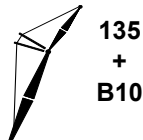
149,600 lb
+
60,400 lb



124.7 ft			
ft	°	ft	lb
22	83.2	131.7	228,300
25	81.8	131.3	203,400
30	79.5	130.3	161,800
35	77.1	129.2	128,100
40	74.7	127.9	99,500
45	72.3	126.3	78,900
50	69.9	124.5	63,400
55	67.4	122.4	51,300
60	64.9	120.1	41,600
65	62.3	117.5	33,700
70	59.6	114.6	26,200
75	56.9	111.4	19,800
80	54.1	107.8	14,200
85	51.1	103.8	9,400

134.5 ft			
ft	°	ft	lb
24	82.8	141.4	211,300
25	82.4	141.2	203,300
30	80.3	140.4	161,800
35	78.1	139.3	128,800
40	75.9	138.1	100,100
45	73.7	136.6	79,400
50	71.4	135.0	63,900
55	69.1	133.1	51,800
60	66.8	131.0	42,100
65	64.5	128.6	33,900
70	62.1	126.0	26,400
75	59.6	123.1	20,000
80	57.1	119.9	14,500
85	54.5	116.3	9,600
90	51.8	112.5	5,400
91	51.2	111.6	4,600

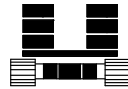
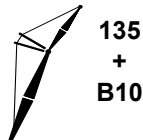
144.4 ft			
ft	°	ft	lb
25	82.9	151.2	186,200
30	80.9	150.4	162,300
35	78.9	149.4	129,400
40	76.9	148.3	100,700
45	74.8	146.9	80,100
50	72.7	145.4	64,500
55	70.6	143.6	52,400
60	68.5	141.7	42,700
65	66.3	139.5	34,400
70	64.1	137.1	27,000
75	61.9	134.5	20,600
80	59.6	131.6	15,100
85	57.2	128.4	10,200
90	54.8	124.9	6,000



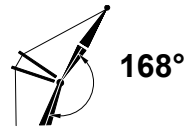
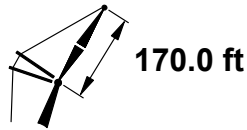
154.2 ft			
ft	°	ft	lb
26	83.0	161.0	174,800
30	81.5	160.4	161,900
35	79.6	159.5	129,900
40	77.7	158.4	101,100
45	75.8	157.1	80,400
50	73.9	155.7	64,800
55	71.9	154.1	52,700
60	69.9	152.3	42,900
65	67.9	150.3	34,400
70	65.9	148.0	26,900
75	63.8	145.6	20,600
80	61.7	142.9	15,100
85	59.6	140.0	10,200
90	57.4	136.9	6,000

164.0 ft			
ft	°	ft	lb
27	83.1	170.8	164,000
30	82.0	170.3	155,700
35	80.3	169.5	130,300
40	78.5	168.5	101,400
45	76.7	167.3	80,700
50	74.9	166.0	65,100
55	73.0	164.4	52,900
60	71.2	162.8	43,200
65	69.3	160.9	34,400
70	67.4	158.8	26,900
75	65.5	156.6	20,600
80	63.6	154.1	15,100
85	61.6	151.4	10,300
90	59.6	148.5	6,100

173.9 ft			
ft	°	ft	lb
28	83.1	180.6	155,300
30	82.5	180.3	150,100
35	80.8	179.5	130,600
40	79.1	178.5	101,700
45	77.4	177.4	80,900
50	75.7	176.2	65,200
55	74.0	174.7	53,000
60	72.3	173.2	42,900
65	70.6	171.4	34,100
70	68.8	169.5	26,700
75	67.0	167.4	20,400
80	65.2	165.1	14,900
85	63.4	162.6	10,100
90	61.5	159.9	5,900



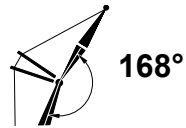
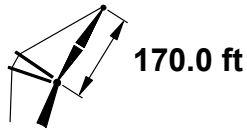
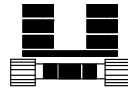
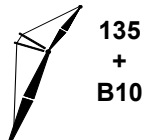
149,600 lb
+
60,400 lb



65.6 ft			
ft	°	ft	lb
15	83.2	73.1	349,000
16	82.3	72.9	326,400
18	80.5	72.5	288,000
20	78.8	72.1	255,800
25	74.2	70.7	194,300
30	69.6	68.9	152,100
35	64.8	66.6	114,300
40	59.8	63.7	86,300
45	54.4	60.3	66,200
48	51.1	57.8	56,600

75.5 ft			
ft	°	ft	lb
17	82.6	82.7	307,200
18	81.8	82.6	289,100
20	80.3	82.2	257,500
25	76.3	81.0	196,300
30	72.4	79.4	154,200
35	68.3	77.5	117,500
40	64.1	75.1	89,400
45	59.7	72.2	69,200
50	55.1	68.8	54,000
54	51.2	65.6	44,300

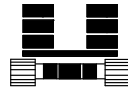
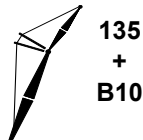
85.3 ft			
ft	°	ft	lb
18	82.8	92.5	290,100
20	81.4	92.2	258,900
25	78.0	91.1	198,000
30	74.5	89.8	156,100
35	70.9	88.1	120,000
40	67.3	86.0	91,900
45	63.6	83.6	71,600
50	59.7	80.7	56,400
55	55.6	77.3	44,500
60	51.4	73.4	34,900



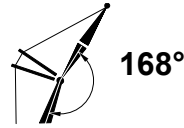
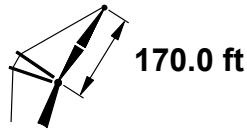
95.1 ft			
ft	°	ft	lb
19	82.9	102.3	274,200
20	82.3	102.2	259,400
25	79.2	101.2	198,900
30	76.1	100.0	157,100
35	73.0	98.5	121,900
40	69.8	96.7	93,600
45	66.5	94.5	73,300
50	63.1	92.0	58,000
55	59.7	89.2	46,100
60	56.1	85.9	36,500
65	52.3	82.1	28,200
66	51.5	81.2	26,600

105.0 ft			
ft	°	ft	lb
20	83.0	112.1	260,200
25	80.3	111.3	200,100
30	77.5	110.2	158,400
35	74.6	108.8	123,500
40	71.8	107.2	95,200
45	68.8	105.3	74,900
50	65.9	103.1	59,600
55	62.8	100.5	47,600
60	59.6	97.6	38,100
65	56.4	94.4	29,900
70	53.0	90.7	22,300
72	51.6	89.0	19,700

114.8 ft			
ft	°	ft	lb
21	83.1	121.9	246,700
25	81.1	121.3	200,400
30	78.6	120.3	158,800
35	76.0	119.1	124,700
40	73.4	117.6	96,300
45	70.7	115.8	75,900
50	68.1	113.9	60,600
55	65.3	111.6	48,600
60	62.5	109.0	39,000
65	59.6	106.1	30,600
70	56.7	102.9	23,100
75	53.6	99.2	16,700
79	51.0	96.0	12,300



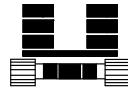
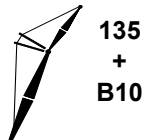
149,600 lb
+
60,400 lb



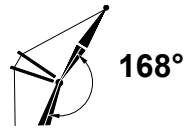
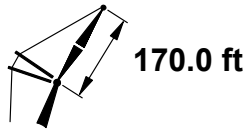
124.7 ft			
ft	°	ft	lb
22	83.2	131.7	226,300
25	81.8	131.3	200,800
30	79.5	130.3	159,300
35	77.1	129.2	125,700
40	74.7	127.9	97,200
45	72.3	126.3	76,800
50	69.9	124.5	61,400
55	67.4	122.4	49,400
60	64.9	120.1	39,800
65	62.3	117.5	31,300
70	59.6	114.6	23,900
75	56.9	111.4	17,500
80	54.1	107.8	12,000
85	51.1	103.8	7,200

134.5 ft			
ft	°	ft	lb
24	82.8	141.4	209,300
25	82.4	141.2	200,800
30	80.3	140.4	159,300
35	78.1	139.3	126,400
40	75.9	138.1	97,900
45	73.7	136.6	77,400
50	71.4	135.0	62,000
55	69.1	133.1	49,900
60	66.8	131.0	40,300
65	64.5	128.6	31,600
70	62.1	126.0	24,200
75	59.6	123.1	17,800
80	57.1	119.9	12,300
85	54.5	116.3	7,500

144.4 ft			
ft	°	ft	lb
25	82.9	151.2	184,300
30	80.9	150.4	159,900
35	78.9	149.4	127,100
40	76.9	148.3	98,600
45	74.8	146.9	78,100
50	72.7	145.4	62,700
55	70.6	143.6	50,600
60	68.5	141.7	41,000
65	66.3	139.5	32,200
70	64.1	137.1	24,800
75	61.9	134.5	18,500
80	59.6	131.6	13,000
85	57.2	128.4	8,200
90	54.8	124.9	4,000



149,600 lb
+
60,400 lb



154.2 ft			
ft	°	ft	lb
26	83.0	161.0	173,000
30	81.5	160.4	159,700
35	79.6	159.5	127,700
40	77.7	158.4	99,100
45	75.8	157.1	78,500
50	73.9	155.7	63,000
55	71.9	154.1	50,900
60	69.9	152.3	41,000
65	67.9	150.3	32,200
70	65.9	148.0	24,800
75	63.8	145.6	18,500
80	61.7	142.9	13,100
85	59.6	140.0	8,300
90	57.4	136.9	4,100

164.0 ft			
ft	°	ft	lb
27	83.1	170.8	162,300
30	82.0	170.3	154,000
35	80.3	169.5	128,100
40	78.5	168.5	99,400
45	76.7	167.3	78,800
50	74.9	166.0	63,300
55	73.0	164.4	51,200
60	71.2	162.8	41,000
65	69.3	160.9	32,300
70	67.4	158.8	24,900
75	65.5	156.6	18,600
80	63.6	154.1	13,100
85	61.6	151.4	8,400
90	59.6	148.5	4,200

173.9 ft			
ft	°	ft	lb
28	83.1	180.6	153,600
30	82.5	180.3	148,300
35	80.8	179.5	128,500
40	79.1	178.5	99,700
45	77.4	177.4	79,100
50	75.7	176.2	63,500
55	74.0	174.7	51,300
60	72.3	173.2	40,800
65	70.6	171.4	32,100
70	68.8	169.5	24,700
75	67.0	167.4	18,400
80	65.2	165.1	13,000
85	63.4	162.6	8,200
90	61.5	159.9	4,000