

Liftcrane Boom Capacities With Luffing Jib Attached

MLC200 SERIES 3

Boom No. B10:76A

Luffing Jib No. 135

184,600 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.



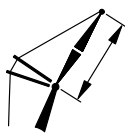
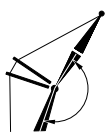
BOOM ANGLE: Boom angle in degrees (°) is angle between horizontal and centerline of boom butt and inserts, and is an indication of operating radius. In all cases, operating radius shall govern capacity.



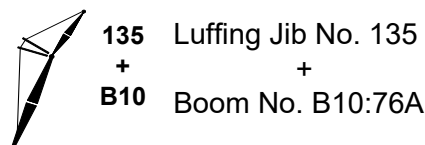
BOOM POINT ELEVATION: Boom point elevation is vertical distance from ground level to centerline of boom point shaft.

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. A027-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



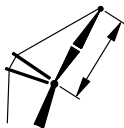
135 Luffing Jib No. 135
+
B10 Boom No. B10:76A



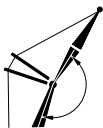
Crane Counterweight
+
Carbody Counterweight



360 Degree Rating



Luffing Jib Length



Boom-to-Luffing Jib Angle



Boom Length



Operating Radius
(see page 1)



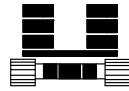
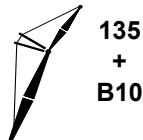
Boom Angle
(see page 1)



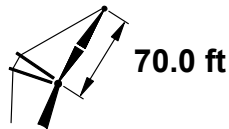
Boom Point Elevation
(see page 1)



Lifting Capacities
(see page 1)



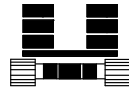
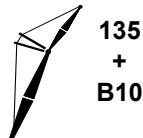
184,600 lb
+
60,400 lb



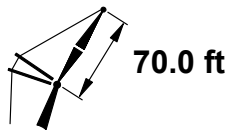
65.6 ft			
ft	°	ft	lb
15	83.2	73.1	380,600
16	82.3	72.9	357,400
18	80.5	72.5	317,900
20	78.8	72.1	285,700
25	74.2	70.7	226,000
29	70.5	69.3	192,300

75.5 ft			
ft	°	ft	lb
17	82.6	82.7	336,600
18	81.8	82.6	317,900
20	80.3	82.2	285,700
25	76.3	81.0	226,100
30	72.4	79.4	185,200
32	70.8	78.7	172,300

85.3 ft			
ft	°	ft	lb
18	82.8	92.5	308,100
20	81.4	92.2	285,800
25	78.0	91.1	226,300
30	74.5	89.8	185,500
35	70.9	88.1	155,700
36	70.2	87.7	150,700



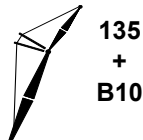
184,600 lb
+
60,400 lb



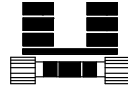
95.1 ft			
ft	°	ft	lb
19	82.9	102.3	296,100
20	82.3	102.2	285,600
25	79.2	101.2	226,100
30	76.1	100.0	185,300
35	73.0	98.5	155,500
39	70.4	97.1	136,500

105.0 ft			
ft	°	ft	lb
20	83.0	112.1	271,900
25	80.3	111.3	226,300
30	77.5	110.2	185,500
35	74.6	108.8	155,800
40	71.8	107.2	131,500
43	70.0	106.1	116,700

114.8 ft			
ft	°	ft	lb
21	83.1	121.9	261,700
25	81.1	121.3	226,000
30	78.6	120.3	185,200
35	76.0	119.1	155,400
40	73.4	117.6	131,700
45	70.7	115.8	108,200
46	70.2	115.5	104,300



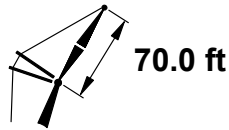
135
+
B10



184,600 lb
+
60,400 lb



360°



70.0 ft



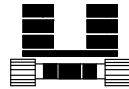
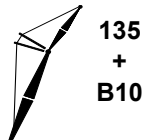
140°

124.7 ft			
ft	°	ft	lb
22	83.2	131.7	236,500
25	81.8	131.3	223,200
30	79.5	130.3	185,000
35	77.1	129.2	155,300
40	74.7	127.9	131,800
45	72.3	126.3	108,300
49	70.4	124.9	93,900

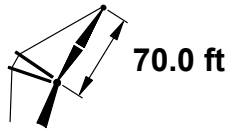
134.5 ft			
ft	°	ft	lb
24	82.8	141.4	219,700
25	82.4	141.2	215,500
30	80.3	140.4	184,600
35	78.1	139.3	154,900
40	75.9	138.1	131,300
45	73.7	136.6	108,300
50	71.4	135.0	90,600
53	70.1	133.9	81,900

144.4 ft			
ft	°	ft	lb
25	82.9	151.2	194,400
30	80.9	150.4	178,200
35	78.9	149.4	154,900
40	76.9	148.3	131,300
45	74.8	146.9	108,400
50	72.7	145.4	90,700
55	70.6	143.6	76,900
56	70.2	143.3	74,500

REFERENCE



184,600 lb
+
60,400 lb



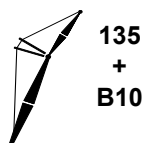
154.2 ft			
ft	°	ft	lb
26	83.0	161.0	182,900
30	81.5	160.4	170,500
35	79.6	159.5	154,500
40	77.7	158.4	130,700
45	75.8	157.1	108,300
50	73.9	155.7	90,500
55	71.9	154.1	76,700
59	70.3	152.6	67,600

164.0 ft			
ft	°	ft	lb
27	83.1	170.8	172,000
30	82.0	170.3	164,000
35	80.3	169.5	151,900
40	78.5	168.5	130,300
45	76.7	167.3	108,200
50	74.9	166.0	90,400
55	73.0	164.4	76,600
60	71.2	162.8	65,400
63	70.1	161.6	59,800

173.9 ft			
ft	°	ft	lb
28	83.1	180.6	163,400
30	82.5	180.3	158,300
35	80.8	179.5	146,300
40	79.1	178.5	129,600
45	77.4	177.4	108,000
50	75.7	176.2	90,200
55	74.0	174.7	76,300
60	72.3	173.2	65,200
65	70.6	171.4	56,100
66	70.2	171.0	54,400

MLC200 S-3

ASME B30.5



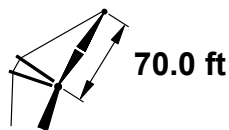
135
+
B10



184,600 lb
+
60,400 lb



360°



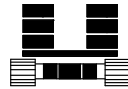
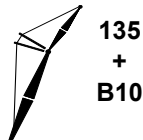
70.0 ft



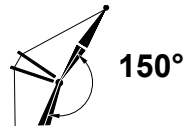
140°

ft	°	ft	lb
29	83.2	190.4	144,800
30	82.9	190.2	142,700
35	81.3	189.5	132,800
40	79.7	188.6	123,600
45	78.1	187.5	107,900
50	76.5	186.3	90,100
55	74.9	185.0	76,200
60	73.3	183.5	65,100
65	71.6	181.9	55,900
69	70.3	180.4	49,700

REFERENCE ONLY!



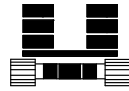
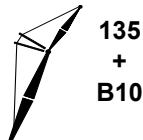
184,600 lb
+
60,400 lb



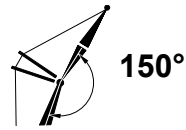
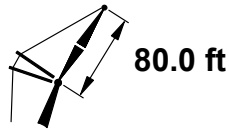
65.6 ft			
ft	°	ft	lb
15	83.2	73.1	380,900
16	82.3	72.9	357,500
18	80.5	72.5	317,800
20	78.8	72.1	285,400
25	74.2	70.7	225,400
30	69.6	68.9	184,200
35	64.8	66.6	154,200

75.5 ft			
ft	°	ft	lb
17	82.6	82.7	336,400
18	81.8	82.6	317,900
20	80.3	82.2	285,500
25	76.3	81.0	225,600
30	72.4	79.4	184,400
35	68.3	77.5	154,500
40	64.1	75.1	128,700

85.3 ft			
ft	°	ft	lb
18	82.8	92.5	307,900
20	81.4	92.2	285,800
25	78.0	91.1	225,900
30	74.5	89.8	184,800
35	70.9	88.1	154,800
40	67.3	86.0	129,600
44	64.3	84.1	110,300



184,600 lb
+
60,400 lb

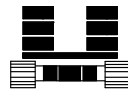
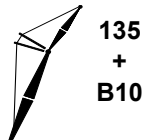


95.1 ft			
ft	°	ft	lb
19	82.9	102.3	295,900
20	82.3	102.2	285,600
25	79.2	101.2	225,800
30	76.1	100.0	184,700
35	73.0	98.5	154,800
40	69.8	96.7	130,100
45	66.5	94.5	106,600
48	64.5	93.1	95,500

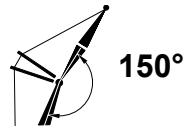
105.0 ft			
ft	°	ft	lb
20	83.0	112.1	272,100
25	80.3	111.3	226,100
30	77.5	110.2	185,000
35	74.6	108.8	155,100
40	71.8	107.2	130,700
45	68.8	105.3	107,200
50	65.9	103.1	89,500
53	64.0	101.6	80,900

114.8 ft			
ft	°	ft	lb
21	83.1	121.9	261,400
25	81.1	121.3	225,800
30	78.6	120.3	184,800
35	76.0	119.1	154,900
40	73.4	117.6	130,900
45	70.7	115.8	107,400
50	68.1	113.9	89,700
55	65.3	111.6	75,800
57	64.2	110.6	71,100

REFERENCE



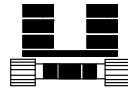
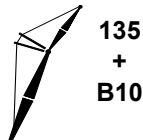
184,600 lb
+
60,400 lb



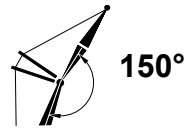
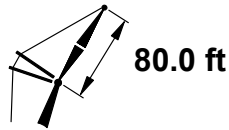
124.7 ft			
ft	°	ft	lb
22	83.2	131.7	236,700
25	81.8	131.3	223,200
30	79.5	130.3	184,700
35	77.1	129.2	154,800
40	74.7	127.9	130,900
45	72.3	126.3	107,600
50	69.9	124.5	89,800
55	67.4	122.4	76,000
60	64.9	120.1	64,800
61	64.4	119.6	62,900

134.5 ft			
ft	°	ft	lb
24	82.8	141.4	219,800
25	82.4	141.2	215,600
30	80.3	140.4	184,300
35	78.1	139.3	154,400
40	75.9	138.1	130,500
45	73.7	136.6	107,600
50	71.4	135.0	89,800
55	69.1	133.1	75,900
60	66.8	131.0	64,800
65	64.5	128.6	55,600

144.4 ft			
ft	°	ft	lb
25	82.9	151.2	194,400
30	80.9	150.4	178,000
35	78.9	149.4	154,500
40	76.9	148.3	130,600
45	74.8	146.9	107,800
50	72.7	145.4	90,000
55	70.6	143.6	76,100
60	68.5	141.7	64,900
65	66.3	139.5	55,800
70	64.1	137.1	48,200



184,600 lb
+
60,400 lb



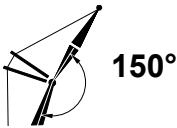
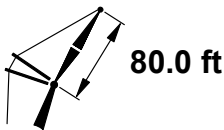
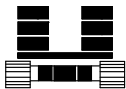
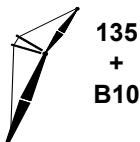
154.2 ft			
ft	°	ft	lb
26	83.0	161.0	182,900
30	81.5	160.4	170,400
35	79.6	159.5	154,100
40	77.7	158.4	130,000
45	75.8	157.1	107,700
50	73.9	155.7	89,900
55	71.9	154.1	76,000
60	69.9	152.3	64,800
65	67.9	150.3	55,600
70	65.9	148.0	48,000
74	64.3	146.1	42,700

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	151,600
40	78.5	168.5	129,700
45	76.7	167.3	107,700
50	74.9	166.0	89,800
55	73.0	164.4	75,900
60	71.2	162.8	64,700
65	69.3	160.9	55,500
70	67.4	158.8	47,900
75	65.5	156.6	41,400
78	64.4	155.1	37,900

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	146,100
40	79.1	178.5	129,100
45	77.4	177.4	107,500
50	75.7	176.2	89,600
55	74.0	174.7	75,700
60	72.3	173.2	64,500
65	70.6	171.4	55,300
70	68.8	169.5	47,600
75	67.0	167.4	41,100
80	65.2	165.1	35,500
83	64.1	163.6	32,500

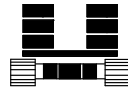
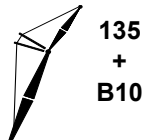
MLC200 S-3

ASME B30.5

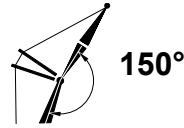
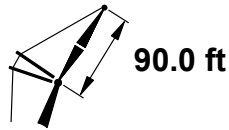


29	83.2	190.4	144,600
30	82.9	190.2	142,500
35	81.3	189.5	132,500
40	79.7	188.6	123,300
45	78.1	187.5	107,500
50	76.5	186.3	89,500
55	74.9	185.0	75,600
60	73.3	183.5	64,400
65	71.6	181.9	55,200
70	70.0	180.0	47,500
75	68.3	178.1	41,000
80	66.6	175.9	35,400
85	64.9	173.6	30,600
87	64.2	172.6	28,800

REFERENCE ONLY!



184,600 lb
+
60,400 lb

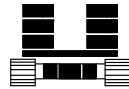
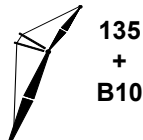


65.6 ft			
ft	°	ft	lb
15	83.2	73.1	377,600
16	82.3	72.9	354,300
18	80.5	72.5	314,800
20	78.8	72.1	282,500
25	74.2	70.7	222,800
30	69.6	68.9	181,800
35	64.8	66.6	151,400

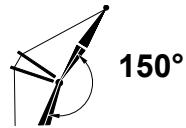
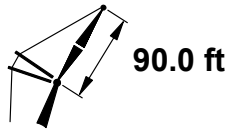
75.5 ft			
ft	°	ft	lb
17	82.6	82.7	333,700
18	81.8	82.6	315,000
20	80.3	82.2	282,700
25	76.3	81.0	223,100
30	72.4	79.4	182,100
35	68.3	77.5	151,900
40	64.1	75.1	126,000

85.3 ft			
ft	°	ft	lb
18	82.8	92.5	305,400
20	81.4	92.2	283,000
25	78.0	91.1	223,400
30	74.5	89.8	182,600
35	70.9	88.1	152,500
40	67.3	86.0	127,000
44	64.3	84.1	107,900

REFERENCE



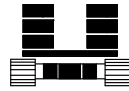
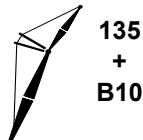
184,600 lb
+
60,400 lb



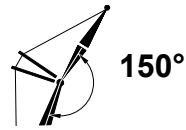
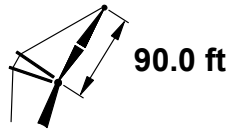
95.1 ft			
ft	o	ft	lb
19	82.9	102.3	293,500
20	82.3	102.2	282,900
25	79.2	101.2	223,400
30	76.1	100.0	182,500
35	73.0	98.5	152,500
40	69.8	96.7	127,600
45	66.5	94.5	104,400
48	64.5	93.1	93,300

105.0 ft			
ft	o	ft	lb
20	83.0	112.1	269,600
25	80.3	111.3	223,700
30	77.5	110.2	182,900
35	74.6	108.8	153,000
40	71.8	107.2	128,300
45	68.8	105.3	105,000
50	65.9	103.1	87,500
53	64.0	101.6	78,900

114.8 ft			
ft	o	ft	lb
21	83.1	121.9	259,400
25	81.1	121.3	223,500
30	78.6	120.3	182,700
35	76.0	119.1	152,800
40	73.4	117.6	128,600
45	70.7	115.8	105,200
50	68.1	113.9	87,600
55	65.3	111.6	73,900
57	64.2	110.6	69,300



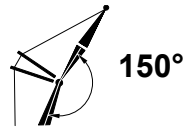
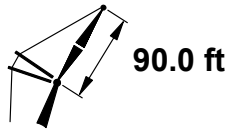
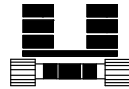
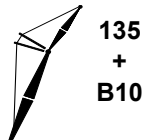
184,600 lb
+
60,400 lb



124.7 ft			
ft	°	ft	lb
22	83.2	131.7	234,400
25	81.8	131.3	220,800
30	79.5	130.3	182,600
35	77.1	129.2	152,700
40	74.7	127.9	128,500
45	72.3	126.3	105,400
50	69.9	124.5	87,800
55	67.4	122.4	74,100
60	64.9	120.1	63,100
61	64.4	119.6	61,100

134.5 ft			
ft	°	ft	lb
24	82.8	141.4	217,500
25	82.4	141.2	213,300
30	80.3	140.4	182,200
35	78.1	139.3	152,200
40	75.9	138.1	128,100
45	73.7	136.6	105,500
50	71.4	135.0	87,900
55	69.1	133.1	74,100
60	66.8	131.0	63,000
65	64.5	128.6	54,000

144.4 ft			
ft	°	ft	lb
25	82.9	151.2	192,200
30	80.9	150.4	175,900
35	78.9	149.4	152,400
40	76.9	148.3	128,200
45	74.8	146.9	105,700
50	72.7	145.4	88,100
55	70.6	143.6	74,300
60	68.5	141.7	63,300
65	66.3	139.5	54,200
70	64.1	137.1	46,600



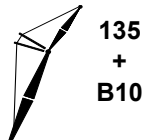
154.2 ft			
ft	°	ft	lb
26	83.0	161.0	180,800
30	81.5	160.4	168,400
35	79.6	159.5	151,800
40	77.7	158.4	127,700
45	75.8	157.1	105,700
50	73.9	155.7	88,000
55	71.9	154.1	74,200
60	69.9	152.3	63,100
65	67.9	150.3	54,100
70	65.9	148.0	46,500
74	64.3	146.1	41,300

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	149,600
40	78.5	168.5	127,400
45	76.7	167.3	105,700
50	74.9	166.0	87,900
55	73.0	164.4	74,100
60	71.2	162.8	63,000
65	69.3	160.9	54,000
70	67.4	158.8	46,400
75	65.5	156.6	39,900
78	64.4	155.1	36,500

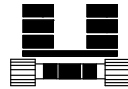
173.9 ft			
ft	°	ft	lb
28	83.1	180.6	161,300
30	82.5	180.3	156,200
35	80.8	179.5	144,100
40	79.1	178.5	126,800
45	77.4	177.4	105,600
50	75.7	176.2	87,800
55	74.0	174.7	74,000
60	72.3	173.2	62,900
65	70.6	171.4	53,700
70	68.8	169.5	46,100
75	67.0	167.4	39,700
80	65.2	165.1	34,200
83	64.1	163.6	31,200

MLC200 S-3

ASME B30.5



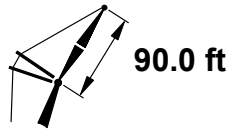
135
+
B10



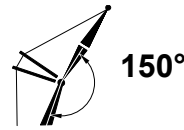
184,600 lb
+
60,400 lb



360°



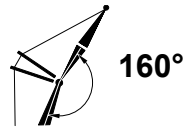
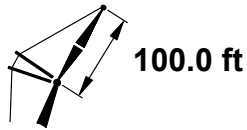
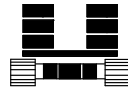
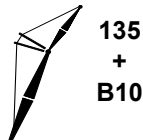
90.0 ft



150°

ft	°	ft	lb
29	83.2	190.4	142,900
30	82.9	190.2	140,800
35	81.3	189.5	130,800
40	79.7	188.6	121,400
45	78.1	187.5	105,500
50	76.5	186.3	87,700
55	74.9	185.0	73,900
60	73.3	183.5	62,800
65	71.6	181.9	53,700
70	70.0	180.0	46,100
75	68.3	178.1	39,600
80	66.6	175.9	34,100
85	64.9	173.6	29,300
87	64.2	172.6	27,500

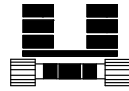
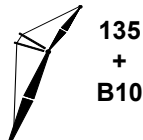
REFERENCE ONLY!



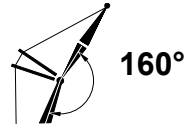
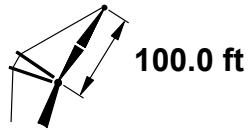
65.6 ft			
ft	°	ft	lb
15	83.2	73.1	380,300
16	82.3	72.9	356,700
18	80.5	72.5	316,600
20	78.8	72.1	283,900
25	74.2	70.7	223,400
30	69.6	68.9	181,900
35	64.8	66.6	151,000
40	59.8	63.7	124,200
42	57.7	62.4	114,000

75.5 ft			
ft	°	ft	lb
17	82.6	82.7	335,500
18	81.8	82.6	317,000
20	80.3	82.2	284,300
25	76.3	81.0	223,900
30	72.4	79.4	182,400
35	68.3	77.5	151,800
40	64.1	75.1	125,700
45	59.7	72.2	102,200
47	57.9	70.9	94,600

85.3 ft			
ft	°	ft	lb
18	82.8	92.5	307,100
20	81.4	92.2	284,700
25	78.0	91.1	224,400
30	74.5	89.8	183,000
35	70.9	88.1	152,600
40	67.3	86.0	127,000
45	63.6	83.6	103,400
50	59.7	80.7	85,700
53	57.3	78.7	77,000



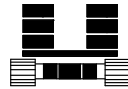
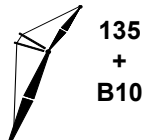
184,600 lb
+
60,400 lb



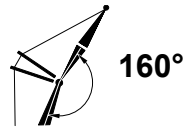
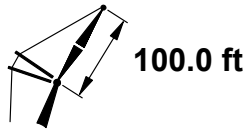
95.1 ft			
ft	°	ft	lb
19	82.9	102.3	295,000
20	82.3	102.2	284,700
25	79.2	101.2	224,500
30	76.1	100.0	183,100
35	73.0	98.5	152,800
40	69.8	96.7	127,800
45	66.5	94.5	104,200
50	63.1	92.0	86,400
55	59.7	89.2	72,500
58	57.5	87.2	65,600

105.0 ft			
ft	°	ft	lb
20	83.0	112.1	271,300
25	80.3	111.3	224,900
30	77.5	110.2	183,600
35	74.6	108.8	153,500
40	71.8	107.2	128,600
45	68.8	105.3	105,000
50	65.9	103.1	87,200
55	62.8	100.5	73,300
60	59.6	97.6	62,200
64	57.0	95.1	54,700

114.8 ft			
ft	°	ft	lb
21	83.1	121.9	260,400
25	81.1	121.3	224,700
30	78.6	120.3	183,400
35	76.0	119.1	153,300
40	73.4	117.6	128,800
45	70.7	115.8	105,300
50	68.1	113.9	87,500
55	65.3	111.6	73,600
60	62.5	109.0	62,400
65	59.6	106.1	53,300
69	57.3	103.6	47,000



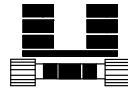
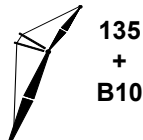
184,600 lb
+
60,400 lb



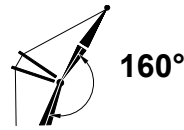
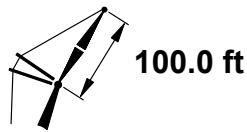
124.7 ft			
ft	°	ft	lb
22	83.2	131.7	236,200
25	81.8	131.3	222,500
30	79.5	130.3	183,400
35	77.1	129.2	153,300
40	74.7	127.9	128,800
45	72.3	126.3	105,700
50	69.9	124.5	87,800
55	67.4	122.4	73,900
60	64.9	120.1	62,700
65	62.3	117.5	53,500
70	59.6	114.6	45,900
74	57.4	112.0	40,600

134.5 ft			
ft	°	ft	lb
24	82.8	141.4	219,300
25	82.4	141.2	214,900
30	80.3	140.4	183,100
35	78.1	139.3	153,000
40	75.9	138.1	128,500
45	73.7	136.6	105,800
50	71.4	135.0	87,900
55	69.1	133.1	74,000
60	66.8	131.0	62,800
65	64.5	128.6	53,600
70	62.1	126.0	45,900
75	59.6	123.1	39,400
80	57.1	119.9	33,800

144.4 ft			
ft	°	ft	lb
25	82.9	151.2	193,800
30	80.9	150.4	177,200
35	78.9	149.4	153,200
40	76.9	148.3	128,700
45	74.8	146.9	106,100
50	72.7	145.4	88,200
55	70.6	143.6	74,200
60	68.5	141.7	63,000
65	66.3	139.5	53,900
70	64.1	137.1	46,200
75	61.9	134.5	39,700
80	59.6	131.6	34,100
85	57.2	128.4	29,200



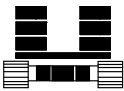
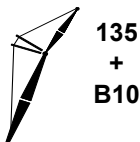
184,600 lb
+
60,400 lb



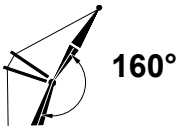
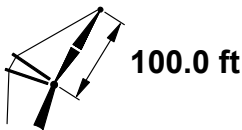
154.2 ft			
ft	°	ft	lb
26	83.0	161.0	182,200
30	81.5	160.4	169,600
35	79.6	159.5	152,700
40	77.7	158.4	128,300
45	75.8	157.1	106,200
50	73.9	155.7	88,200
55	71.9	154.1	74,200
60	69.9	152.3	63,000
65	67.9	150.3	53,800
70	65.9	148.0	46,100
75	63.8	145.6	39,600
80	61.7	142.9	34,000
85	59.6	140.0	29,100
90	57.4	136.9	24,900

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	150,700
40	78.5	168.5	128,000
45	76.7	167.3	106,200
50	74.9	166.0	88,200
55	73.0	164.4	74,200
60	71.2	162.8	63,000
65	69.3	160.9	53,700
70	67.4	158.8	46,000
75	65.5	156.6	39,500
80	63.6	154.1	33,900
85	61.6	151.4	29,100
90	59.6	148.5	24,800
95	57.5	145.4	20,600
96	57.1	144.7	19,800

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	145,100
40	79.1	178.5	127,500
45	77.4	177.4	106,100
50	75.7	176.2	88,100
55	74.0	174.7	74,100
60	72.3	173.2	62,800
65	70.6	171.4	53,600
70	68.8	169.5	45,900
75	67.0	167.4	39,300
80	65.2	165.1	33,700
85	63.4	162.6	28,900
90	61.5	159.9	24,500
95	59.6	157.0	20,200
100	57.6	153.8	16,300
101	57.2	153.2	15,600

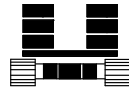
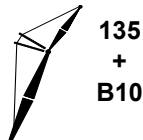


184,600 lb
+
60,400 lb

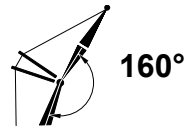
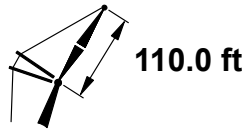


 183.7 ft			
 ft	 °	 ft	 lb
29	83.2	190.4	144,000
30	82.9	190.2	141,900
35	81.3	189.5	131,700
40	79.7	188.6	122,300
45	78.1	187.5	106,100
50	76.5	186.3	88,100
55	74.9	185.0	74,100
60	73.3	183.5	62,800
65	71.6	181.9	53,600
70	70.0	180.0	45,800
75	68.3	178.1	39,300
80	66.6	175.9	33,700
85	64.9	173.6	28,800
90	63.2	171.1	24,300
95	61.4	168.4	20,000
100	59.6	165.5	16,100
105	57.7	162.3	12,600
106	57.4	161.7	12,000

REFERENCE ONLY!



184,600 lb
+
60,400 lb

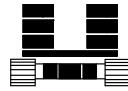
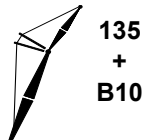


65.6 ft			
ft	°	ft	lb
15	83.2	73.1	378,000
16	82.3	72.9	354,500
18	80.5	72.5	314,600
20	78.8	72.1	281,900
25	74.2	70.7	221,600
30	69.6	68.9	180,200
35	64.8	66.6	148,800
40	59.8	63.7	122,100
42	57.7	62.4	112,000

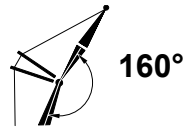
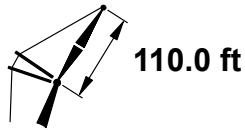
75.5 ft			
ft	°	ft	lb
17	82.6	82.7	333,200
18	81.8	82.6	315,000
20	80.3	82.2	282,400
25	76.3	81.0	222,200
30	72.4	79.4	180,800
35	68.3	77.5	149,800
40	64.1	75.1	123,800
45	59.7	72.2	100,400
47	57.9	70.9	92,800

85.3 ft			
ft	°	ft	lb
18	82.8	92.5	305,000
20	81.4	92.2	282,900
25	78.0	91.1	222,800
30	74.5	89.8	181,500
35	70.9	88.1	150,700
40	67.3	86.0	125,100
45	63.6	83.6	101,700
50	59.7	80.7	84,100
53	57.3	78.7	75,500

REFERENCE



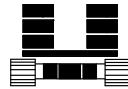
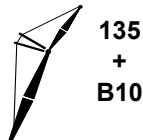
184,600 lb
+
60,400 lb



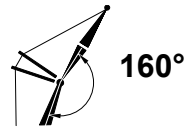
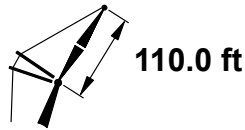
95.1 ft			
ft	°	ft	lb
19	82.9	102.3	293,000
20	82.3	102.2	282,900
25	79.2	101.2	222,900
30	76.1	100.0	181,700
35	73.0	98.5	151,000
40	69.8	96.7	126,000
45	66.5	94.5	102,600
50	63.1	92.0	84,900
55	59.7	89.2	71,100
58	57.5	87.2	64,200

105.0 ft			
ft	°	ft	lb
20	83.0	112.1	269,400
25	80.3	111.3	223,300
30	77.5	110.2	182,200
35	74.6	108.8	151,700
40	71.8	107.2	126,900
45	68.8	105.3	103,400
50	65.9	103.1	85,700
55	62.8	100.5	71,900
60	59.6	97.6	60,900
64	57.0	95.1	53,500

114.8 ft			
ft	°	ft	lb
21	83.1	121.9	258,800
25	81.1	121.3	223,200
30	78.6	120.3	182,100
35	76.0	119.1	151,600
40	73.4	117.6	127,200
45	70.7	115.8	103,800
50	68.1	113.9	86,100
55	65.3	111.6	72,300
60	62.5	109.0	61,200
65	59.6	106.1	52,100
69	57.3	103.6	45,900



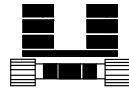
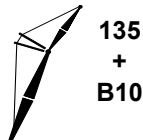
184,600 lb
+
60,400 lb



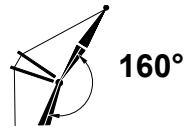
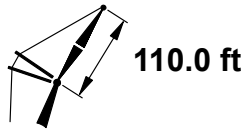
124.7 ft			
ft	°	ft	lb
22	83.2	131.7	234,200
25	81.8	131.3	220,300
30	79.5	130.3	182,100
35	77.1	129.2	151,700
40	74.7	127.9	127,300
45	72.3	126.3	104,200
50	69.9	124.5	86,500
55	67.4	122.4	72,600
60	64.9	120.1	61,500
65	62.3	117.5	52,400
70	59.6	114.6	44,800
74	57.4	112.0	39,600

134.5 ft			
ft	°	ft	lb
24	82.8	141.4	217,200
25	82.4	141.2	212,900
30	80.3	140.4	181,800
35	78.1	139.3	151,300
40	75.9	138.1	127,000
45	73.7	136.6	104,400
50	71.4	135.0	86,600
55	69.1	133.1	72,700
60	66.8	131.0	61,600
65	64.5	128.6	52,500
70	62.1	126.0	44,900
75	59.6	123.1	38,400
80	57.1	119.9	32,800

144.4 ft			
ft	°	ft	lb
25	82.9	151.2	191,900
30	80.9	150.4	175,300
35	78.9	149.4	151,600
40	76.9	148.3	127,200
45	74.8	146.9	104,700
50	72.7	145.4	86,900
55	70.6	143.6	73,100
60	68.5	141.7	61,900
65	66.3	139.5	52,800
70	64.1	137.1	45,200
75	61.9	134.5	38,700
80	59.6	131.6	33,200
85	57.2	128.4	28,400



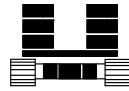
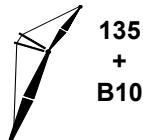
184,600 lb
+
60,400 lb



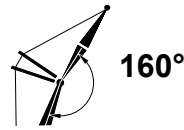
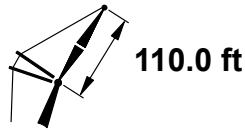
154.2 ft			
ft	°	ft	lb
26	83.0	161.0	180,400
30	81.5	160.4	167,800
35	79.6	159.5	151,100
40	77.7	158.4	126,800
45	75.8	157.1	104,800
50	73.9	155.7	87,000
55	71.9	154.1	73,100
60	69.9	152.3	61,900
65	67.9	150.3	52,800
70	65.9	148.0	45,100
75	63.8	145.6	38,600
80	61.7	142.9	33,100
85	59.6	140.0	28,300
90	57.4	136.9	24,000

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	148,900
40	78.5	168.5	126,600
45	76.7	167.3	104,900
50	74.9	166.0	87,000
55	73.0	164.4	73,100
60	71.2	162.8	61,900
65	69.3	160.9	52,700
70	67.4	158.8	45,100
75	65.5	156.6	38,600
80	63.6	154.1	33,000
85	61.6	151.4	28,200
90	59.6	148.5	23,900
95	57.5	145.4	19,600
96	57.1	144.7	18,800

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	143,400
40	79.1	178.5	126,000
45	77.4	177.4	104,800
50	75.7	176.2	87,000
55	74.0	174.7	73,000
60	72.3	173.2	61,800
65	70.6	171.4	52,600
70	68.8	169.5	44,900
75	67.0	167.4	38,400
80	65.2	165.1	32,900
85	63.4	162.6	28,000
90	61.5	159.9	23,500
95	59.6	157.0	19,100
100	57.6	153.8	15,300
101	57.2	153.2	14,600

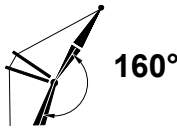
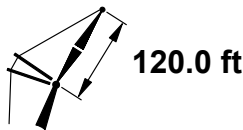
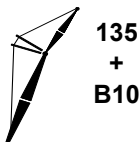


184,600 lb
+
60,400 lb



183.7 ft			
ft	°	ft	lb
29	83.2	190.4	142,400
30	82.9	190.2	140,200
35	81.3	189.5	130,100
40	79.7	188.6	120,700
45	78.1	187.5	104,900
50	76.5	186.3	87,000
55	74.9	185.0	73,000
60	73.3	183.5	61,800
65	71.6	181.9	52,600
70	70.0	180.0	44,900
75	68.3	178.1	38,400
80	66.6	175.9	32,900
85	64.9	173.6	28,000
90	63.2	171.1	23,200
95	61.4	168.4	19,000
100	59.6	165.5	15,100
105	57.7	162.3	11,700
106	57.4	161.7	11,000

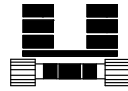
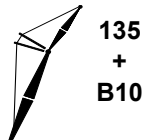
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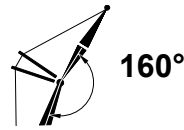
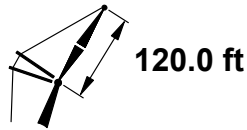
65.6 ft			
ft	o	ft	lb
15	83.2	73.1	374,700
16	82.3	72.9	351,200
18	80.5	72.5	311,400
20	78.8	72.1	278,900
25	74.2	70.7	218,700
30	69.6	68.9	177,400
35	64.8	66.6	145,200
40	59.8	63.7	118,800
42	57.7	62.4	108,700

75.5 ft			
ft	o	ft	lb
17	82.6	82.7	329,900
18	81.8	82.6	311,900
20	80.3	82.2	279,400
25	76.3	81.0	219,400
30	72.4	79.4	178,200
35	68.3	77.5	146,400
40	64.1	75.1	120,600
45	59.7	72.2	97,500
47	57.9	70.9	89,900

85.3 ft			
ft	o	ft	lb
18	82.8	92.5	301,900
20	81.4	92.2	280,000
25	78.0	91.1	220,100
30	74.5	89.8	179,000
35	70.9	88.1	147,500
40	67.3	86.0	122,100
45	63.6	83.6	98,900
50	59.7	80.7	81,400
53	57.3	78.7	72,900



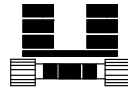
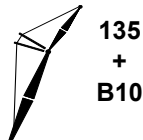
184,600 lb
+
60,400 lb



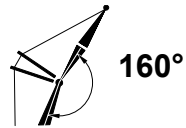
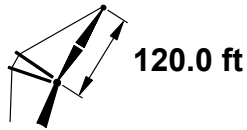
95.1 ft			
ft	°	ft	lb
19	82.9	102.3	290,100
20	82.3	102.2	280,100
25	79.2	101.2	220,300
30	76.1	100.0	179,200
35	73.0	98.5	147,800
40	69.8	96.7	123,100
45	66.5	94.5	99,900
50	63.1	92.0	82,300
55	59.7	89.2	68,700
58	57.5	87.2	61,800

105.0 ft			
ft	°	ft	lb
20	83.0	112.1	266,400
25	80.3	111.3	220,800
30	77.5	110.2	179,800
35	74.6	108.8	148,600
40	71.8	107.2	124,100
45	68.8	105.3	100,800
50	65.9	103.1	83,300
55	62.8	100.5	69,600
60	59.6	97.6	58,600
64	57.0	95.1	51,300

114.8 ft			
ft	°	ft	lb
21	83.1	121.9	256,200
25	81.1	121.3	220,700
30	78.6	120.3	179,700
35	76.0	119.1	148,600
40	73.4	117.6	124,300
45	70.7	115.8	101,300
50	68.1	113.9	83,700
55	65.3	111.6	70,000
60	62.5	109.0	59,000
65	59.6	106.1	50,000
69	57.3	103.6	43,800



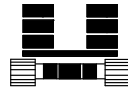
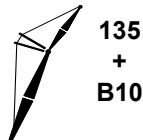
184,600 lb
+
60,400 lb



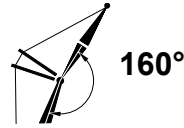
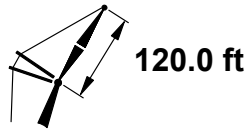
124.7 ft			
ft	°	ft	lb
22	83.2	131.7	231,300
25	81.8	131.3	217,600
30	79.5	130.3	179,800
35	77.1	129.2	148,700
40	74.7	127.9	124,500
45	72.3	126.3	101,800
50	69.9	124.5	84,100
55	67.4	122.4	70,400
60	64.9	120.1	59,400
65	62.3	117.5	50,300
70	59.6	114.6	42,800
74	57.4	112.0	37,600

134.5 ft			
ft	°	ft	lb
24	82.8	141.4	214,400
25	82.4	141.2	210,100
30	80.3	140.4	179,600
35	78.1	139.3	148,500
40	75.9	138.1	124,200
45	73.7	136.6	102,000
50	71.4	135.0	84,300
55	69.1	133.1	70,600
60	66.8	131.0	59,500
65	64.5	128.6	50,500
70	62.1	126.0	42,900
75	59.6	123.1	36,500
80	57.1	119.9	31,000

144.4 ft			
ft	°	ft	lb
25	82.9	151.2	189,300
30	80.9	150.4	172,600
35	78.9	149.4	148,800
40	76.9	148.3	124,500
45	74.8	146.9	102,400
50	72.7	145.4	84,700
55	70.6	143.6	70,900
60	68.5	141.7	59,900
65	66.3	139.5	50,800
70	64.1	137.1	43,300
75	61.9	134.5	36,800
80	59.6	131.6	31,300
85	57.2	128.4	26,600



184,600 lb
+
60,400 lb



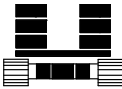
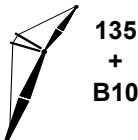
154.2 ft			
ft	°	ft	lb
26	83.0	161.0	177,900
30	81.5	160.4	165,200
35	79.6	159.5	148,400
40	77.7	158.4	124,100
45	75.8	157.1	102,500
50	73.9	155.7	84,800
55	71.9	154.1	71,000
60	69.9	152.3	59,900
65	67.9	150.3	50,800
70	65.9	148.0	43,200
75	63.8	145.6	36,800
80	61.7	142.9	31,300
85	59.6	140.0	26,500
90	57.4	136.9	21,900

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	146,400
40	78.5	168.5	124,000
45	76.7	167.3	102,600
50	74.9	166.0	84,900
55	73.0	164.4	71,000
60	71.2	162.8	59,900
65	69.3	160.9	50,800
70	67.4	158.8	43,300
75	65.5	156.6	36,800
80	63.6	154.1	31,300
85	61.6	151.4	26,500
90	59.6	148.5	21,700
95	57.5	145.4	17,400
96	57.1	144.7	16,600

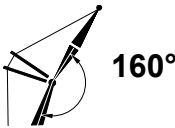
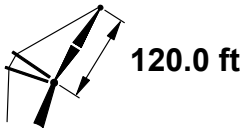
173.9 ft			
ft	°	ft	lb
28	83.1	180.6	158,400
30	82.5	180.3	153,200
35	80.8	179.5	141,000
40	79.1	178.5	123,500
45	77.4	177.4	102,600
50	75.7	176.2	84,800
55	74.0	174.7	71,000
60	72.3	173.2	59,900
65	70.6	171.4	50,700
70	68.8	169.5	43,100
75	67.0	167.4	36,700
80	65.2	165.1	31,100
85	63.4	162.6	26,100
90	61.5	159.9	21,300
95	59.6	157.0	17,000
100	57.6	153.8	13,200
101	57.2	153.2	12,500

MLC200 S-3

ASME B30.5

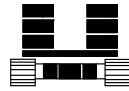
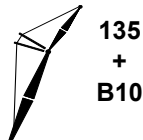


184,600 lb
+
60,400 lb

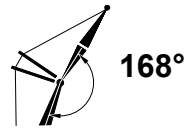
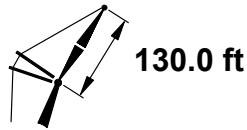


29	83.2	190.4	140,200
30	82.9	190.2	138,000
35	81.3	189.5	127,800
40	79.7	188.6	118,300
45	78.1	187.5	102,700
50	76.5	186.3	84,900
55	74.9	185.0	71,000
60	73.3	183.5	59,900
65	71.6	181.9	50,800
70	70.0	180.0	43,100
75	68.3	178.1	36,700
80	66.6	175.9	31,200
85	64.9	173.6	25,900
90	63.2	171.1	21,100
95	61.4	168.4	16,800
100	59.6	165.5	13,000
105	57.7	162.3	9,600
106	57.4	161.7	9,000

REFERENCE ONLY!



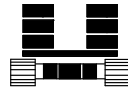
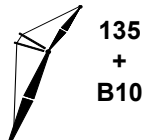
184,600 lb
+
60,400 lb



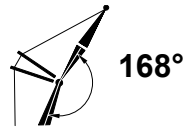
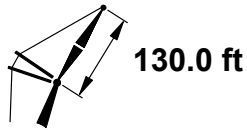
65.6 ft			
ft	°	ft	lb
15	83.2	73.1	379,400
16	82.3	72.9	355,600
18	80.5	72.5	315,100
20	78.8	72.1	282,000
25	74.2	70.7	220,800
30	69.6	68.9	178,700
35	64.8	66.6	146,200
40	59.8	63.7	119,300
45	54.4	60.3	95,700
48	51.1	57.8	84,500

75.5 ft			
ft	°	ft	lb
17	82.6	82.7	334,000
18	81.8	82.6	315,700
20	80.3	82.2	282,700
25	76.3	81.0	221,600
30	72.4	79.4	179,700
35	68.3	77.5	147,700
40	64.1	75.1	121,500
45	59.7	72.2	97,900
50	55.1	68.8	80,000
54	51.2	65.6	68,600

85.3 ft			
ft	°	ft	lb
18	82.8	92.5	305,600
20	81.4	92.2	283,400
25	78.0	91.1	222,500
30	74.5	89.8	180,700
35	70.9	88.1	149,000
40	67.3	86.0	123,300
45	63.6	83.6	99,600
50	59.7	80.7	81,700
55	55.6	77.3	67,800
60	51.4	73.4	56,600



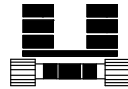
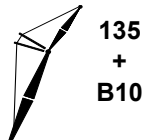
184,600 lb
+
60,400 lb



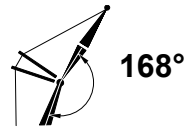
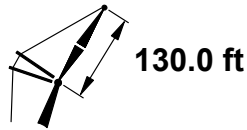
95.1 ft			
ft	°	ft	lb
19	82.9	102.3	293,500
20	82.3	102.2	283,600
25	79.2	101.2	222,800
30	76.1	100.0	181,000
35	73.0	98.5	149,600
40	69.8	96.7	124,500
45	66.5	94.5	100,800
50	63.1	92.0	82,900
55	59.7	89.2	68,900
60	56.1	85.9	57,700
65	52.3	82.1	48,400
66	51.5	81.2	46,800

105.0 ft			
ft	°	ft	lb
20	83.0	112.1	269,900
25	80.3	111.3	223,400
30	77.5	110.2	181,700
35	74.6	108.8	150,600
40	71.8	107.2	125,700
45	68.8	105.3	101,900
50	65.9	103.1	84,000
55	62.8	100.5	70,000
60	59.6	97.6	58,800
65	56.4	94.4	49,600
70	53.0	90.7	41,900
72	51.6	89.0	39,100

114.8 ft			
ft	°	ft	lb
21	83.1	121.9	259,000
25	81.1	121.3	223,400
30	78.6	120.3	181,700
35	76.0	119.1	150,600
40	73.4	117.6	125,800
45	70.7	115.8	102,500
50	68.1	113.9	84,600
55	65.3	111.6	70,600
60	62.5	109.0	59,300
65	59.6	106.1	50,100
70	56.7	102.9	42,400
75	53.6	99.2	35,800
79	51.0	96.0	31,300



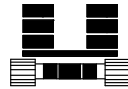
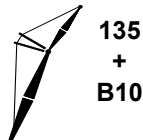
184,600 lb
+
60,400 lb



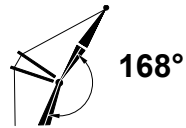
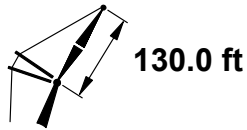
124.7 ft			
ft	°	ft	lb
22	83.2	131.7	235,100
25	81.8	131.3	221,100
30	79.5	130.3	181,900
35	77.1	129.2	150,900
40	74.7	127.9	126,100
45	72.3	126.3	103,100
50	69.9	124.5	85,100
55	67.4	122.4	71,100
60	64.9	120.1	59,800
65	62.3	117.5	50,600
70	59.6	114.6	42,900
75	56.9	111.4	36,300
80	54.1	107.8	30,700
85	51.1	103.8	25,800

134.5 ft			
ft	°	ft	lb
24	82.8	141.4	218,000
25	82.4	141.2	213,500
30	80.3	140.4	181,700
35	78.1	139.3	150,700
40	75.9	138.1	125,900
45	73.7	136.6	103,500
50	71.4	135.0	85,400
55	69.1	133.1	71,400
60	66.8	131.0	60,100
65	64.5	128.6	50,800
70	62.1	126.0	43,100
75	59.6	123.1	36,500
80	57.1	119.9	30,900
85	54.5	116.3	26,000
90	51.8	112.5	21,400
91	51.2	111.6	20,500

144.4 ft			
ft	°	ft	lb
25	82.9	151.2	192,500
30	80.9	150.4	175,600
35	78.9	149.4	151,100
40	76.9	148.3	126,300
45	74.8	146.9	103,900
50	72.7	145.4	85,900
55	70.6	143.6	71,800
60	68.5	141.7	60,500
65	66.3	139.5	51,300
70	64.1	137.1	43,500
75	61.9	134.5	37,000
80	59.6	131.6	31,400
85	57.2	128.4	26,500
90	54.8	124.9	21,900
95	52.3	121.1	17,500
97	51.3	119.5	15,800



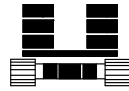
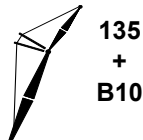
184,600 lb
+
60,400 lb



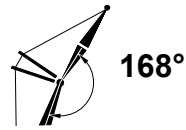
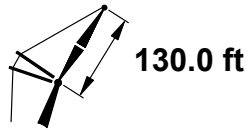
154.2 ft			
ft	°	ft	lb
26	83.0	161.0	181,000
30	81.5	160.4	168,100
35	79.6	159.5	150,700
40	77.7	158.4	126,000
45	75.8	157.1	104,100
50	73.9	155.7	86,000
55	71.9	154.1	71,900
60	69.9	152.3	60,600
65	67.9	150.3	51,400
70	65.9	148.0	43,600
75	63.8	145.6	37,000
80	61.7	142.9	31,400
85	59.6	140.0	26,500
90	57.4	136.9	21,700
95	55.1	133.4	17,300
100	52.8	129.7	13,400
103	51.4	127.3	11,200

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	148,900
40	78.5	168.5	125,900
45	76.7	167.3	104,300
50	74.9	166.0	86,200
55	73.0	164.4	72,100
60	71.2	162.8	60,700
65	69.3	160.9	51,400
70	67.4	158.8	43,700
75	65.5	156.6	37,100
80	63.6	154.1	31,500
85	61.6	151.4	26,500
90	59.6	148.5	21,600
95	57.5	145.4	17,200
100	55.4	141.9	13,300
105	53.2	138.2	9,800
109	51.4	135.1	7,200

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	143,500
40	79.1	178.5	125,500
45	77.4	177.4	104,300
50	75.7	176.2	86,200
55	74.0	174.7	72,100
60	72.3	173.2	60,700
65	70.6	171.4	51,400
70	68.8	169.5	43,600
75	67.0	167.4	37,000
80	65.2	165.1	31,400
85	63.4	162.6	26,100
90	61.5	159.9	21,200
95	59.6	157.0	16,900
100	57.6	153.8	12,900
105	55.6	150.5	9,400
110	53.6	146.8	6,300

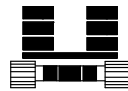
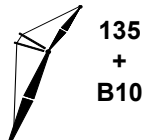


184,600 lb
+
60,400 lb

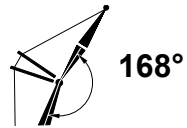
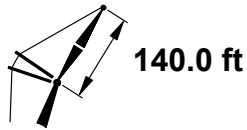


183.7 ft			
ft	°	ft	lb
29	83.2	190.4	142,600
30	82.9	190.2	140,500
35	81.3	189.5	130,100
40	79.7	188.6	120,600
45	78.1	187.5	104,400
50	76.5	186.3	86,300
55	74.9	185.0	72,100
60	73.3	183.5	60,800
65	71.6	181.9	51,500
70	70.0	180.0	43,700
75	68.3	178.1	37,100
80	66.6	175.9	31,500
85	64.9	173.6	26,000
90	63.2	171.1	21,100
95	61.4	168.4	16,800
100	59.6	165.5	12,900
105	57.7	162.3	9,400
110	55.9	159.0	6,200

REFERENCE ONLY!



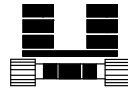
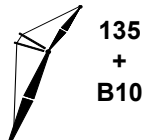
184,600 lb
+
60,400 lb



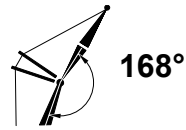
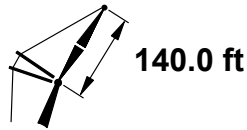
65.6 ft			
ft	°	ft	lb
15	83.2	73.1	376,700
16	82.3	72.9	352,900
18	80.5	72.5	312,400
20	78.8	72.1	279,300
25	74.2	70.7	218,200
30	69.6	68.9	175,700
35	64.8	66.6	142,800
40	59.8	63.7	116,100
45	54.4	60.3	92,600
48	51.1	57.8	81,500

75.5 ft			
ft	°	ft	lb
17	82.6	82.7	331,200
18	81.8	82.6	313,200
20	80.3	82.2	280,200
25	76.3	81.0	219,200
30	72.4	79.4	177,300
35	68.3	77.5	144,500
40	64.1	75.1	118,500
45	59.7	72.2	95,000
50	55.1	68.8	77,300
54	51.2	65.6	65,900

85.3 ft			
ft	°	ft	lb
18	82.8	92.5	303,000
20	81.4	92.2	281,000
25	78.0	91.1	220,100
30	74.5	89.8	178,400
35	70.9	88.1	146,000
40	67.3	86.0	120,500
45	63.6	83.6	96,900
50	59.7	80.7	79,100
55	55.6	77.3	65,300
60	51.4	73.4	54,100



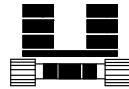
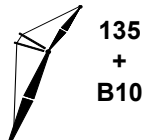
184,600 lb
+
60,400 lb



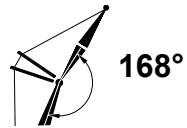
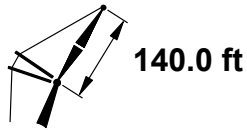
95.1 ft			
ft	°	ft	lb
19	82.9	102.3	291,100
20	82.3	102.2	281,300
25	79.2	101.2	220,500
30	76.1	100.0	178,800
35	73.0	98.5	146,700
40	69.8	96.7	121,900
45	66.5	94.5	98,200
50	63.1	92.0	80,400
55	59.7	89.2	66,500
60	56.1	85.9	55,300
65	52.3	82.1	46,200
66	51.5	81.2	44,500

105.0 ft			
ft	°	ft	lb
20	83.0	112.1	267,600
25	80.3	111.3	221,200
30	77.5	110.2	179,600
35	74.6	108.8	147,800
40	71.8	107.2	123,000
45	68.8	105.3	99,500
50	65.9	103.1	81,600
55	62.8	100.5	67,700
60	59.6	97.6	56,600
65	56.4	94.4	47,400
70	53.0	90.7	39,700
72	51.6	89.0	37,000

114.8 ft			
ft	°	ft	lb
21	83.1	121.9	256,800
25	81.1	121.3	221,300
30	78.6	120.3	179,700
35	76.0	119.1	148,000
40	73.4	117.6	123,200
45	70.7	115.8	100,200
50	68.1	113.9	82,300
55	65.3	111.6	68,400
60	62.5	109.0	57,200
65	59.6	106.1	48,000
70	56.7	102.9	40,300
75	53.6	99.2	33,800
79	51.0	96.0	29,300



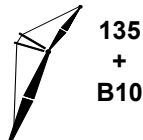
184,600 lb
+
60,400 lb



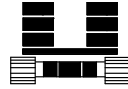
124.7 ft			
ft	°	ft	lb
22	83.2	131.7	232,700
25	81.8	131.3	218,600
30	79.5	130.3	179,900
35	77.1	129.2	148,300
40	74.7	127.9	123,600
45	72.3	126.3	100,900
50	69.9	124.5	83,000
55	67.4	122.4	69,000
60	64.9	120.1	57,800
65	62.3	117.5	48,600
70	59.6	114.6	40,900
75	56.9	111.4	34,400
80	54.1	107.8	28,800
85	51.1	103.8	23,900

134.5 ft			
ft	°	ft	lb
24	82.8	141.4	215,600
25	82.4	141.2	211,200
30	80.3	140.4	179,800
35	78.1	139.3	148,200
40	75.9	138.1	123,500
45	73.7	136.6	101,300
50	71.4	135.0	83,300
55	69.1	133.1	69,300
60	66.8	131.0	58,100
65	64.5	128.6	48,900
70	62.1	126.0	41,200
75	59.6	123.1	34,700
80	57.1	119.9	29,100
85	54.5	116.3	24,000
90	51.8	112.5	19,100
91	51.2	111.6	18,200

144.4 ft			
ft	°	ft	lb
25	82.9	151.2	190,300
30	80.9	150.4	173,300
35	78.9	149.4	148,600
40	76.9	148.3	123,900
45	74.8	146.9	101,800
50	72.7	145.4	83,800
55	70.6	143.6	69,800
60	68.5	141.7	58,600
65	66.3	139.5	49,400
70	64.1	137.1	41,700
75	61.9	134.5	35,200
80	59.6	131.6	29,600
85	57.2	128.4	24,500
90	54.8	124.9	19,600
95	52.3	121.1	15,200
97	51.3	119.5	13,600



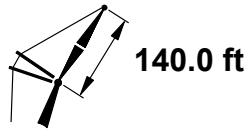
135
+
B10



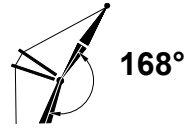
184,600 lb
+
60,400 lb



360°



140.0 ft

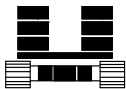
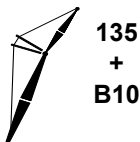


168°

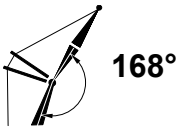
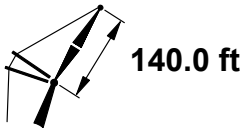
154.2 ft			
ft	°	ft	lb
26	83.0	161.0	178,800
30	81.5	160.4	165,900
35	79.6	159.5	148,300
40	77.7	158.4	123,700
45	75.8	157.1	102,000
50	73.9	155.7	84,100
55	71.9	154.1	70,000
60	69.9	152.3	58,800
65	67.9	150.3	49,500
70	65.9	148.0	41,800
75	63.8	145.6	35,300
80	61.7	142.9	29,700
85	59.6	140.0	24,400
90	57.4	136.9	19,500
95	55.1	133.4	15,100
100	52.8	129.7	11,200
103	51.4	127.3	9,000

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	146,800
40	78.5	168.5	123,600
45	76.7	167.3	102,200
50	74.9	166.0	84,200
55	73.0	164.4	70,200
60	71.2	162.8	58,900
65	69.3	160.9	49,700
70	67.4	158.8	41,900
75	65.5	156.6	35,400
80	63.6	154.1	29,800
85	61.6	151.4	24,300
90	59.6	148.5	19,400
95	57.5	145.4	15,000
100	55.4	141.9	11,100
105	53.2	138.2	7,600
109	51.4	135.1	5,100

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	141,300
40	79.1	178.5	123,200
45	77.4	177.4	102,400
50	75.7	176.2	84,300
55	74.0	174.7	70,200
60	72.3	173.2	58,900
65	70.6	171.4	49,700
70	68.8	169.5	41,900
75	67.0	167.4	35,400
80	65.2	165.1	29,500
85	63.4	162.6	24,000
90	61.5	159.9	19,100
95	59.6	157.0	14,700
100	57.6	153.8	10,900
105	55.6	150.5	7,400
110	53.6	146.8	4,200

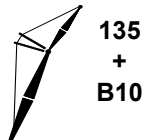


184,600 lb
+
60,400 lb

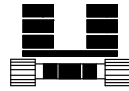


29	83.2	190.4	140,700
30	82.9	190.2	138,500
35	81.3	189.5	128,200
40	79.7	188.6	118,500
45	78.1	187.5	102,500
50	76.5	186.3	84,400
55	74.9	185.0	70,300
60	73.3	183.5	59,000
65	71.6	181.9	49,800
70	70.0	180.0	42,000
75	68.3	178.1	35,500
80	66.6	175.9	29,400
85	64.9	173.6	23,900
90	63.2	171.1	19,000
95	61.4	168.4	14,700
100	59.6	165.5	10,800
105	57.7	162.3	7,400
110	55.9	159.0	4,200

REFERENCE ONLY!



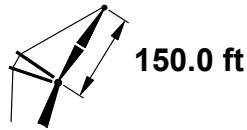
135
+
B10



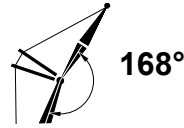
184,600 lb
+
60,400 lb



360°



150.0 ft

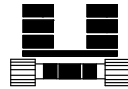
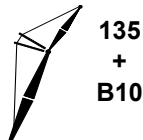


168°

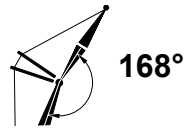
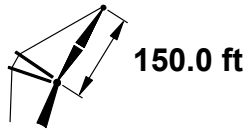
65.6 ft			
ft	°	ft	lb
15	83.2	73.1	374,700
16	82.3	72.9	350,900
18	80.5	72.5	310,500
20	78.8	72.1	277,400
25	74.2	70.7	216,300
30	69.6	68.9	173,300
35	64.8	66.6	140,500
40	59.8	63.7	113,800
45	54.4	60.3	90,500
48	51.1	57.8	79,400

75.5 ft			
ft	°	ft	lb
17	82.6	82.7	329,100
18	81.8	82.6	311,300
20	80.3	82.2	278,400
25	76.3	81.0	217,500
30	72.4	79.4	175,100
35	68.3	77.5	142,400
40	64.1	75.1	116,400
45	59.7	72.2	93,000
50	55.1	68.8	75,400
54	51.2	65.6	64,100

85.3 ft			
ft	°	ft	lb
18	82.8	92.5	301,100
20	81.4	92.2	279,300
25	78.0	91.1	218,500
30	74.5	89.8	176,600
35	70.9	88.1	144,000
40	67.3	86.0	118,600
45	63.6	83.6	95,100
50	59.7	80.7	77,400
55	55.6	77.3	63,600
60	51.4	73.4	52,500



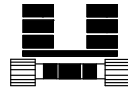
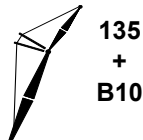
184,600 lb
+
60,400 lb



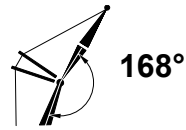
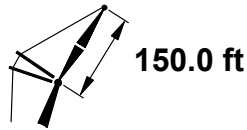
95.1 ft			
ft	°	ft	lb
19	82.9	102.3	289,200
20	82.3	102.2	279,600
25	79.2	101.2	219,000
30	76.1	100.0	177,300
35	73.0	98.5	144,800
40	69.8	96.7	120,000
45	66.5	94.5	96,500
50	63.1	92.0	78,800
55	59.7	89.2	64,900
60	56.1	85.9	53,800
65	52.3	82.1	44,700
66	51.5	81.2	43,100

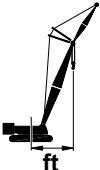
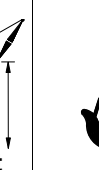
105.0 ft			
ft	°	ft	lb
20	83.0	112.1	265,900
25	80.3	111.3	219,700
30	77.5	110.2	178,200
35	74.6	108.8	146,000
40	71.8	107.2	121,300
45	68.8	105.3	97,800
50	65.9	103.1	80,100
55	62.8	100.5	66,200
60	59.6	97.6	55,100
65	56.4	94.4	46,000
70	53.0	90.7	38,400
72	51.6	89.0	35,700

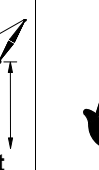
114.8 ft			
ft	°	ft	lb
21	83.1	121.9	255,200
25	81.1	121.3	219,800
30	78.6	120.3	178,300
35	76.0	119.1	146,200
40	73.4	117.6	121,500
45	70.7	115.8	98,600
50	68.1	113.9	80,900
55	65.3	111.6	67,000
60	62.5	109.0	55,800
65	59.6	106.1	46,700
70	56.7	102.9	39,100
75	53.6	99.2	32,600
79	51.0	96.0	28,100

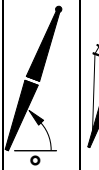
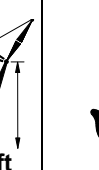


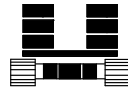
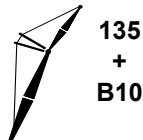
184,600 lb
+
60,400 lb



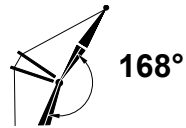
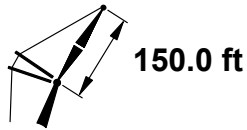
124.7 ft			
 ft	 °	 ft	 lb
22	83.2	131.7	230,800
25	81.8	131.3	216,700
30	79.5	130.3	178,600
35	77.1	129.2	146,600
40	74.7	127.9	121,900
45	72.3	126.3	99,300
50	69.9	124.5	81,500
55	67.4	122.4	67,600
60	64.9	120.1	56,500
65	62.3	117.5	47,300
70	59.6	114.6	39,700
75	56.9	111.4	33,200
80	54.1	107.8	27,700
85	51.1	103.8	22,500

134.5 ft			
 ft	 °	 ft	 lb
24	82.8	141.4	213,800
25	82.4	141.2	209,300
30	80.3	140.4	178,500
35	78.1	139.3	146,500
40	75.9	138.1	121,900
45	73.7	136.6	99,800
50	71.4	135.0	82,000
55	69.1	133.1	68,000
60	66.8	131.0	56,800
65	64.5	128.6	47,700
70	62.1	126.0	40,000
75	59.6	123.1	33,500
80	57.1	119.9	28,000
85	54.5	116.3	22,600
90	51.8	112.5	17,700
91	51.2	111.6	16,800

144.4 ft			
 ft	 °	 ft	 lb
25	82.9	151.2	188,600
30	80.9	150.4	171,500
35	78.9	149.4	147,000
40	76.9	148.3	122,400
45	74.8	146.9	100,400
50	72.7	145.4	82,500
55	70.6	143.6	68,600
60	68.5	141.7	57,400
65	66.3	139.5	48,200
70	64.1	137.1	40,600
75	61.9	134.5	34,100
80	59.6	131.6	28,500
85	57.2	128.4	23,100
90	54.8	124.9	18,200
95	52.3	121.1	13,900
97	51.3	119.5	12,300



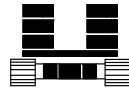
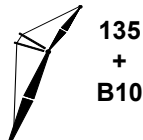
184,600 lb
+
60,400 lb



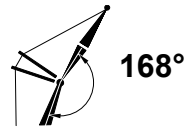
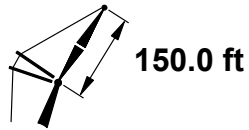
154.2 ft			
ft	°	ft	lb
26	83.0	161.0	177,200
30	81.5	160.4	164,200
35	79.6	159.5	146,800
40	77.7	158.4	122,200
45	75.8	157.1	100,700
50	73.9	155.7	82,800
55	71.9	154.1	68,800
60	69.9	152.3	57,600
65	67.9	150.3	48,400
70	65.9	148.0	40,700
75	63.8	145.6	34,200
80	61.7	142.9	28,600
85	59.6	140.0	23,100
90	57.4	136.9	18,200
95	55.1	133.4	13,800
100	52.8	129.7	10,000
103	51.4	127.3	7,800

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	145,100
40	78.5	168.5	122,100
45	76.7	167.3	100,900
50	74.9	166.0	83,000
55	73.0	164.4	69,000
60	71.2	162.8	57,800
65	69.3	160.9	48,600
70	67.4	158.8	40,900
75	65.5	156.6	34,400
80	63.6	154.1	28,600
85	61.6	151.4	23,000
90	59.6	148.5	18,100
95	57.5	145.4	13,800
100	55.4	141.9	10,000
105	53.2	138.2	6,500

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	139,800
40	79.1	178.5	121,800
45	77.4	177.4	101,100
50	75.7	176.2	83,100
55	74.0	174.7	69,100
60	72.3	173.2	57,800
65	70.6	171.4	48,600
70	68.8	169.5	40,900
75	67.0	167.4	34,400
80	65.2	165.1	28,300
85	63.4	162.6	22,800
90	61.5	159.9	17,900
95	59.6	157.0	13,600
100	57.6	153.8	9,700
105	55.6	150.5	6,200

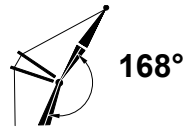
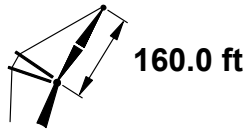
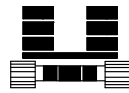
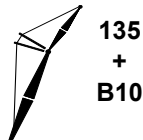


184,600 lb
+
60,400 lb



183.7 ft			
ft	°	ft	lb
29	83.2	190.4	139,300
30	82.9	190.2	137,100
35	81.3	189.5	126,700
40	79.7	188.6	117,000
45	78.1	187.5	101,200
50	76.5	186.3	83,200
55	74.9	185.0	69,200
60	73.3	183.5	58,000
65	71.6	181.9	48,700
70	70.0	180.0	41,000
75	68.3	178.1	34,500
80	66.6	175.9	28,200
85	64.9	173.6	22,700
90	63.2	171.1	17,900
95	61.4	168.4	13,600
100	59.6	165.5	9,700
105	57.7	162.3	6,300

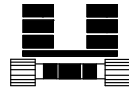
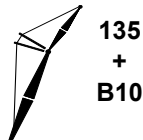
REFERENCE ONLY!



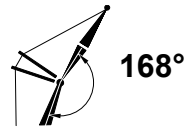
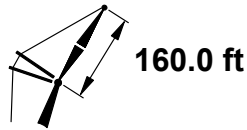
65.6 ft			
ft	°	ft	lb
15	83.2	73.1	371,800
16	82.3	72.9	348,000
18	80.5	72.5	307,600
20	78.8	72.1	274,600
25	74.2	70.7	213,600
30	69.6	68.9	169,700
35	64.8	66.6	136,900
40	59.8	63.7	110,400
45	54.4	60.3	87,200
48	51.1	57.8	76,200

75.5 ft			
ft	°	ft	lb
17	82.6	82.7	326,100
18	81.8	82.6	308,600
20	80.3	82.2	275,700
25	76.3	81.0	214,900
30	72.4	79.4	171,700
35	68.3	77.5	139,000
40	64.1	75.1	113,300
45	59.7	72.2	90,000
50	55.1	68.8	72,500
54	51.2	65.6	61,300

85.3 ft			
ft	°	ft	lb
18	82.8	92.5	298,200
20	81.4	92.2	276,700
25	78.0	91.1	216,100
30	74.5	89.8	173,400
35	70.9	88.1	140,800
40	67.3	86.0	115,600
45	63.6	83.6	92,300
50	59.7	80.7	74,700
55	55.6	77.3	60,900
60	51.4	73.4	49,900



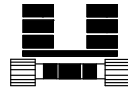
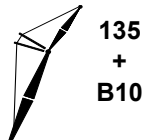
184,600 lb
+
60,400 lb



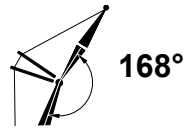
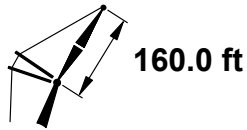
95.1 ft			
ft	°	ft	lb
19	82.9	102.3	286,500
20	82.3	102.2	277,200
25	79.2	101.2	216,600
30	76.1	100.0	174,300
35	73.0	98.5	141,800
40	69.8	96.7	117,100
45	66.5	94.5	93,800
50	63.1	92.0	76,200
55	59.7	89.2	62,400
60	56.1	85.9	51,400
65	52.3	82.1	42,300
66	51.5	81.2	40,700

105.0 ft			
ft	°	ft	lb
20	83.0	112.1	263,300
25	80.3	111.3	217,500
30	77.5	110.2	175,500
35	74.6	108.8	143,100
40	71.8	107.2	118,400
45	68.8	105.3	95,300
50	65.9	103.1	77,600
55	62.8	100.5	63,900
60	59.6	97.6	52,800
65	56.4	94.4	43,700
70	53.0	90.7	36,200
72	51.6	89.0	33,500

114.8 ft			
ft	°	ft	lb
21	83.1	121.9	252,800
25	81.1	121.3	217,600
30	78.6	120.3	175,800
35	76.0	119.1	143,400
40	73.4	117.6	118,800
45	70.7	115.8	96,200
50	68.1	113.9	78,500
55	65.3	111.6	64,700
60	62.5	109.0	53,600
65	59.6	106.1	44,500
70	56.7	102.9	36,900
75	53.6	99.2	30,500
79	51.0	96.0	26,000



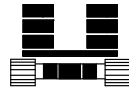
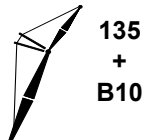
184,600 lb
+
60,400 lb



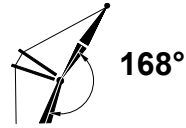
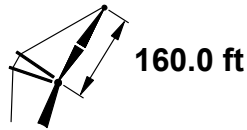
124.7 ft			
ft	°	ft	lb
22	83.2	131.7	228,300
25	81.8	131.3	214,100
30	79.5	130.3	176,200
35	77.1	129.2	143,900
40	74.7	127.9	119,300
45	72.3	126.3	97,000
50	69.9	124.5	79,300
55	67.4	122.4	65,400
60	64.9	120.1	54,300
65	62.3	117.5	45,200
70	59.6	114.6	37,600
75	56.9	111.4	31,200
80	54.1	107.8	25,400
85	51.1	103.8	19,900

134.5 ft			
ft	°	ft	lb
24	82.8	141.4	211,300
25	82.4	141.2	206,800
30	80.3	140.4	176,100
35	78.1	139.3	143,900
40	75.9	138.1	119,300
45	73.7	136.6	97,500
50	71.4	135.0	79,800
55	69.1	133.1	65,900
60	66.8	131.0	54,800
65	64.5	128.6	45,700
70	62.1	126.0	38,000
75	59.6	123.1	31,600
80	57.1	119.9	25,700
85	54.5	116.3	20,100
90	51.8	112.5	15,200
91	51.2	111.6	14,300

144.4 ft			
ft	°	ft	lb
25	82.9	151.2	186,200
30	80.9	150.4	169,000
35	78.9	149.4	144,400
40	76.9	148.3	119,900
45	74.8	146.9	98,200
50	72.7	145.4	80,400
55	70.6	143.6	66,500
60	68.5	141.7	55,400
65	66.3	139.5	46,300
70	64.1	137.1	38,700
75	61.9	134.5	32,200
80	59.6	131.6	26,200
85	57.2	128.4	20,700
90	54.8	124.9	15,900
95	52.3	121.1	11,500
97	51.3	119.5	9,900



184,600 lb
+
60,400 lb



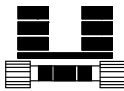
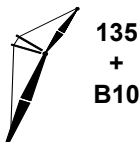
154.2 ft			
ft	°	ft	lb
26	83.0	161.0	174,800
30	81.5	160.4	161,900
35	79.6	159.5	144,200
40	77.7	158.4	119,700
45	75.8	157.1	98,500
50	73.9	155.7	80,700
55	71.9	154.1	66,800
60	69.9	152.3	55,600
65	67.9	150.3	46,500
70	65.9	148.0	38,900
75	63.8	145.6	32,400
80	61.7	142.9	26,200
85	59.6	140.0	20,700
90	57.4	136.9	15,800
95	55.1	133.4	11,500
100	52.8	129.7	7,700
103	51.4	127.3	5,600

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	142,700
40	78.5	168.5	119,700
45	76.7	167.3	98,800
50	74.9	166.0	81,000
55	73.0	164.4	67,000
60	71.2	162.8	55,900
65	69.3	160.9	46,700
70	67.4	158.8	39,100
75	65.5	156.6	32,500
80	63.6	154.1	26,200
85	61.6	151.4	20,700
90	59.6	148.5	15,900
95	57.5	145.4	11,600
100	55.4	141.9	7,700
105	53.2	138.2	4,300

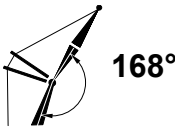
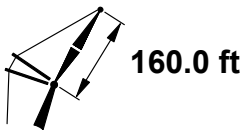
173.9 ft			
ft	°	ft	lb
28	83.1	180.6	155,300
30	82.5	180.3	150,100
35	80.8	179.5	137,500
40	79.1	178.5	119,400
45	77.4	177.4	99,000
50	75.7	176.2	81,100
55	74.0	174.7	67,200
60	72.3	173.2	56,000
65	70.6	171.4	46,800
70	68.8	169.5	39,100
75	67.0	167.4	32,300
80	65.2	165.1	26,000
85	63.4	162.6	20,500
90	61.5	159.9	15,700
95	59.6	157.0	11,400
100	57.6	153.8	7,500
105	55.6	150.5	4,100

MLC200 S-3

ASME B30.5

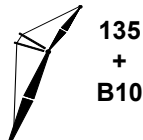


184,600 lb
+
60,400 lb

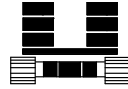


29	83.2	190.4	137,200
30	82.9	190.2	135,000
35	81.3	189.5	124,600
40	79.7	188.6	114,800
45	78.1	187.5	99,200
50	76.5	186.3	81,300
55	74.9	185.0	67,300
60	73.3	183.5	56,100
65	71.6	181.9	47,000
70	70.0	180.0	39,300
75	68.3	178.1	32,200
80	66.6	175.9	26,000
85	64.9	173.6	20,500
90	63.2	171.1	15,700
95	61.4	168.4	11,400
100	59.6	165.5	7,600
105	57.7	162.3	4,200

REFERENCE ONLY!



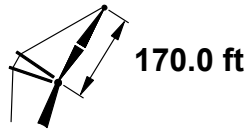
135
+
B10



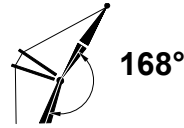
184,600 lb
+
60,400 lb



360°



170.0 ft

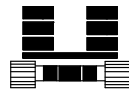
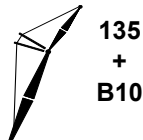


168°

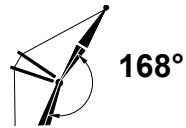
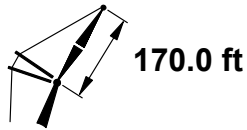
65.6 ft			
ft	°	ft	lb
15	83.2	73.1	369,100
16	82.3	72.9	345,400
18	80.5	72.5	305,000
20	78.8	72.1	272,100
25	74.2	70.7	211,100
30	69.6	68.9	166,400
35	64.8	66.6	133,700
40	59.8	63.7	107,300
45	54.4	60.3	84,300
48	51.1	57.8	73,300

75.5 ft			
ft	°	ft	lb
17	82.6	82.7	323,700
18	81.8	82.6	306,200
20	80.3	82.2	273,300
25	76.3	81.0	212,600
30	72.4	79.4	168,600
35	68.3	77.5	136,000
40	64.1	75.1	110,400
45	59.7	72.2	87,300
50	55.1	68.8	69,900
54	51.2	65.6	58,700

85.3 ft			
ft	°	ft	lb
18	82.8	92.5	296,100
20	81.4	92.2	274,400
25	78.0	91.1	213,900
30	74.5	89.8	170,500
35	70.9	88.1	138,000
40	67.3	86.0	112,900
45	63.6	83.6	89,700
50	59.7	80.7	72,200
55	55.6	77.3	58,600
60	51.4	73.4	47,700



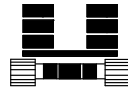
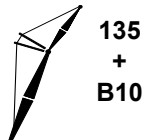
184,600 lb
+
60,400 lb



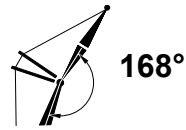
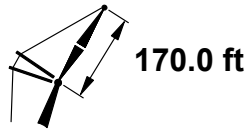
95.1 ft			
ft	°	ft	lb
19	82.9	102.3	284,500
20	82.3	102.2	274,900
25	79.2	101.2	214,500
30	76.1	100.0	171,500
35	73.0	98.5	139,100
40	69.8	96.7	114,500
45	66.5	94.5	91,400
50	63.1	92.0	73,900
55	59.7	89.2	60,200
60	56.1	85.9	49,200
65	52.3	82.1	40,200
66	51.5	81.2	38,600

105.0 ft			
ft	°	ft	lb
20	83.0	112.1	261,100
25	80.3	111.3	215,400
30	77.5	110.2	172,800
35	74.6	108.8	140,500
40	71.8	107.2	115,900
45	68.8	105.3	93,000
50	65.9	103.1	75,500
55	62.8	100.5	61,800
60	59.6	97.6	50,800
65	56.4	94.4	41,800
70	53.0	90.7	34,200
72	51.6	89.0	31,600

114.8 ft			
ft	°	ft	lb
21	83.1	121.9	251,000
25	81.1	121.3	215,600
30	78.6	120.3	173,200
35	76.0	119.1	141,000
40	73.4	117.6	116,400
45	70.7	115.8	94,000
50	68.1	113.9	76,400
55	65.3	111.6	62,700
60	62.5	109.0	51,700
65	59.6	106.1	42,600
70	56.7	102.9	35,100
75	53.6	99.2	28,700
79	51.0	96.0	23,700



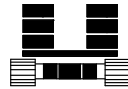
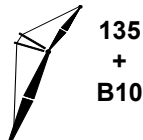
184,600 lb
+
60,400 lb



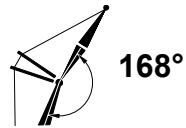
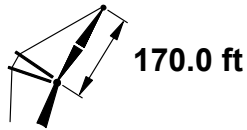
124.7 ft			
ft	°	ft	lb
22	83.2	131.7	226,300
25	81.8	131.3	212,000
30	79.5	130.3	173,700
35	77.1	129.2	141,500
40	74.7	127.9	117,000
45	72.3	126.3	94,900
50	69.9	124.5	77,300
55	67.4	122.4	63,500
60	64.9	120.1	52,500
65	62.3	117.5	43,400
70	59.6	114.6	35,900
75	56.9	111.4	29,500
80	54.1	107.8	23,200
85	51.1	103.8	17,700

134.5 ft			
ft	°	ft	lb
24	82.8	141.4	209,300
25	82.4	141.2	204,800
30	80.3	140.4	173,700
35	78.1	139.3	141,600
40	75.9	138.1	117,100
45	73.7	136.6	95,500
50	71.4	135.0	77,800
55	69.1	133.1	64,000
60	66.8	131.0	53,000
65	64.5	128.6	43,900
70	62.1	126.0	36,300
75	59.6	123.1	29,800
80	57.1	119.9	23,500
85	54.5	116.3	18,000
90	51.8	112.5	13,200
91	51.2	111.6	12,300

144.4 ft			
ft	°	ft	lb
25	82.9	151.2	184,300
30	80.9	150.4	167,100
35	78.9	149.4	142,200
40	76.9	148.3	117,700
45	74.8	146.9	96,200
50	72.7	145.4	78,500
55	70.6	143.6	64,700
60	68.5	141.7	53,700
65	66.3	139.5	44,600
70	64.1	137.1	37,000
75	61.9	134.5	30,500
80	59.6	131.6	24,200
85	57.2	128.4	18,700
90	54.8	124.9	13,900
95	52.3	121.1	9,600
97	51.3	119.5	8,000



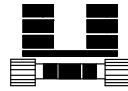
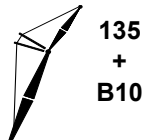
184,600 lb
+
60,400 lb



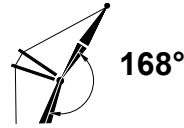
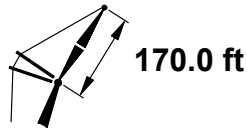
154.2 ft			
ft	°	ft	lb
26	83.0	161.0	173,000
30	81.5	160.4	160,000
35	79.6	159.5	142,000
40	77.7	158.4	117,600
45	75.8	157.1	96,600
50	73.9	155.7	78,900
55	71.9	154.1	65,100
60	69.9	152.3	54,000
65	67.9	150.3	44,900
70	65.9	148.0	37,300
75	63.8	145.6	30,500
80	61.7	142.9	24,200
85	59.6	140.0	18,700
90	57.4	136.9	13,900
95	55.1	133.4	9,600
100	52.8	129.7	5,800

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	140,900
40	78.5	168.5	117,600
45	76.7	167.3	96,900
50	74.9	166.0	79,200
55	73.0	164.4	65,300
60	71.2	162.8	54,200
65	69.3	160.9	45,100
70	67.4	158.8	37,500
75	65.5	156.6	30,500
80	63.6	154.1	24,300
85	61.6	151.4	18,800
90	59.6	148.5	14,000
95	57.5	145.4	9,700
100	55.4	141.9	5,900

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	135,700
40	79.1	178.5	117,400
45	77.4	177.4	97,200
50	75.7	176.2	79,400
55	74.0	174.7	65,500
60	72.3	173.2	54,400
65	70.6	171.4	45,200
70	68.8	169.5	37,600
75	67.0	167.4	30,300
80	65.2	165.1	24,100
85	63.4	162.6	18,600
90	61.5	159.9	13,800
95	59.6	157.0	9,600
100	57.6	153.8	5,800



184,600 lb
+
60,400 lb



183.7 ft			
ft	°	ft	lb
29	83.2	190.4	135,600
30	82.9	190.2	133,400
35	81.3	189.5	122,900
40	79.7	188.6	113,100
45	78.1	187.5	97,400
50	76.5	186.3	79,600
55	74.9	185.0	65,700
60	73.3	183.5	54,600
65	71.6	181.9	45,400
70	70.0	180.0	37,500
75	68.3	178.1	30,400
80	66.6	175.9	24,100
85	64.9	173.6	18,700
90	63.2	171.1	13,900
95	61.4	168.4	9,700
100	59.6	165.5	5,900

REFERENCE ONLY!