

Liftcrane Luffing Jib Capacities

**Luffing Jib No. LJ10:501 on Boom No. B10:500
with 309,100 lb Fixed Position Counterweight
at 13.4 ft Position
360 Degree Rating**

**MLC300
SERIES 1**



LIFTING CAPACITIES: Lifting capacities for various boom lengths, boom angles, luffing jib lengths, and luffing jib operating radii are for freely suspended loads and may be based on percent of static tipping or strength of structural components. Capacities must be reduced by applicable deducts.

Consult Luffing Jib Raising Procedure chart **No. 9610-A** for allowable boom point configurations for 157.5 ft boom length.

Upper luffing jib point capacity for liftcrane service with single part whip line is 36,700 lb or 73,500 lb with two part whip line. In all cases, upper luffing jib point capacities cannot exceed those listed for main luffing jib capacity.

Weight of all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom and luffing jib point sheaves is considered part of load. Boom and luffing jib are not to be lowered beyond radii where combined weights are greater than rated capacity. Operation is only approved for boom and luffing jib angle range shown in capacity chart.

LUFFING JIB BACKWARD STABILITY: Capacities indicated by (b) require 5,000 lb minimum weight suspended beneath luffing jib point, (c) require 10,000 lb minimum weight, and (d) require 16,000 lb minimum weight. **Caution:** Do not luff into areas indicated by (b), (c), or (d) without required minimum weight. Luffing jib may not luff down and luffing jib hoist wire rope may go slack. Luffing jib hoist wire rope may overhaul luffing jib and cause wire rope damage or failure.

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. Refer to Luffing Jib Rigging **No. 81023383**, Wire Rope Specifications chart **No. 9379-A**, Counterweight Arrangements chart **No. 9345-A**, Luffing Jib Raising Procedure chart **No. 9610-A**, and Wind Conditions chart **No. 9371-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. 9611-A**.



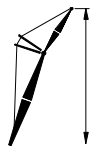
OPERATING RADIUS: Operating radius is horizontal distance from axis of rotation to center of vertical hoist line or load block. Boom angle and luffing jib angle are an indication of operating radius. In all cases, operating radius shall govern capacity.



BOOM ANGLE: Boom angle in degrees (°) is angle between horizontal and centerline of boom butt and inserts.



LUFFING JIB ANGLE: Luffing jib angle in degrees (°) is angle between horizontal and centerline of luffing jib butt and inserts.



LUFFING JIB POINT ELEVATION: Luffing jib point elevation is vertical distance from ground level to centerline of luffing jib point shaft.

MACHINE EQUIPMENT: Machine equipped with 31 ft 10 in. crawlers, 48 in. or 60 in. treads, 30 ft live mast, 24 part boom hoist reeving, boom support straps, 14 part luffing jib hoist reeving, luffing jib and backstay support straps, and 309,100 lb Fixed Position Counterweight.

Explanation of Symbols



Luffing Jib No. LJ10:501
+
Boom No. B10:500



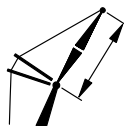
Fixed Position Counterweight



360 Degree Rating



Boom Length



Luffing Jib Length



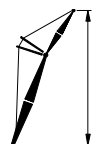
Boom Angle
(see page 1)



Operating Radius
(see page 1)



Luffing Jib Angle
(see page 1)



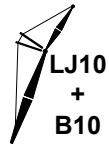
Luffing Jib Elevation
(see page 1)



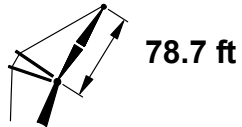
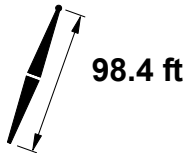
Lifting Capacities
(see page 1)

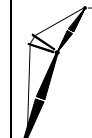
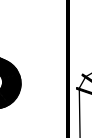
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REFERENCE ONLY!



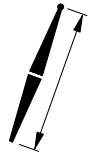
309,100 lb



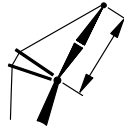
	86°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
38	74.3	181.7	310,100 c							38
40	72.8	181.1	287,600 c							40
45	68.9	179.1	242,900 b							45
50	64.9	176.8	209,700 b	69.0	178.6	203,400 b				50
55	60.7	174.0	184,200	65.0	176.3	178,600 b				55
60	56.3	170.7	163,900	60.9	173.5	158,900	65.2	175.5	153,800 b	60
65	51.7	166.7	147,300	56.5	170.2	142,800	61.0	172.7	138,300	65
70	46.8	162.1	133,500	51.9	166.3	129,400	56.7	169.4	125,300	70
75	41.3	156.6	121,900	47.0	161.7	118,200	52.1	165.6	114,400	75
80	35.2	149.7	111,900	41.6	156.2	108,500	47.1	161.0	105,000	80
85	27.8	140.9	103,200	35.4	149.4	100,100	41.7	155.5	96,900	85
90	17.4	127.5	95,400	28.1	140.7	92,700	35.6	148.8	89,800	90
95				17.9	127.6	86,000	28.4	140.1	83,400	95
100							18.3	127.3	77,600	100
105										105
110										110
115										115
120										120
125										125



309,100 lb

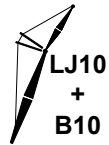


98.4 ft

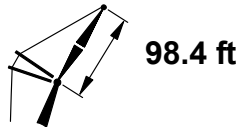
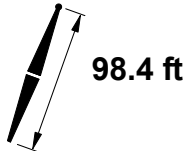


78.7 ft

	75°			70°			65°			
										
	ft	ft	ft	lb	ft	ft	ft	lb	ft	ft
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70	63.9	172.6		118,500						70
75	59.7	169.7		108,100						75
80	55.3	166.3		99,300						80
85	50.6	162.2		91,600	58.2	165.8				85
90	45.5	157.4		84,900	53.7	162.1				90
95	40.0	151.5		78,900	48.9	157.8				95
100	33.6	144.3		73,600	43.7	152.7	51.8	157.0	65,100	100
105	25.7	134.8		68,700	37.9	146.4	46.8	152.4	60,800	105
110	13.7	119.1		64,200	31.1	138.6	41.4	146.8	57,000	110
115					22.3	127.7	35.3	140.0	53,500	115
120							27.9	131.2	50,200	120
125							17.6	117.9	47,200	125



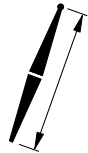
309,100 lb



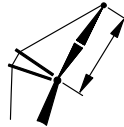
	86°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
45	73.3	200.1	242,300 b							45
50	70.2	198.3	209,200							50
55	67.0	196.2	183,700	70.3	197.8	177,800				55
60	63.8	193.7	163,400	67.2	195.7	158,100				60
65	60.5	190.9	146,800	63.9	193.2	142,100	67.3	194.9	137,400	65
70	57.0	187.7	133,100	60.6	190.4	128,800	64.0	192.4	124,500	70
75	53.4	184.0	121,600	57.1	187.2	117,600	60.7	189.6	113,700	75
80	49.6	179.8	111,700	53.5	183.5	108,000	57.2	186.4	104,400	80
85	45.5	174.9	103,100	49.7	179.3	99,700	53.6	182.8	96,300	85
90	41.1	169.3	95,600	45.7	174.5	92,400	49.8	178.6	89,300	90
95	36.3	162.7	88,900	41.3	168.9	86,000	45.8	173.8	83,100	95
100	30.8	154.6	83,000	36.5	162.4	80,300	41.5	168.2	77,500	100
105	24.1	144.3	77,600	31.0	154.4	75,100	36.7	161.7	72,600	105
110	14.5	128.6	72,700	24.4	144.2	70,400	31.2	153.8	68,100	110
115				15.0	128.8	66,100	24.6	143.7	63,900	115
120							15.4	128.6	60,100	120
125										125
130										130
135										135
140										140
145										145



309,100 lb

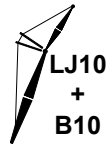


98.4 ft

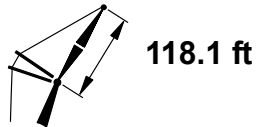
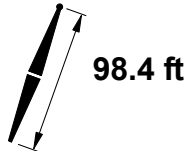


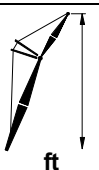
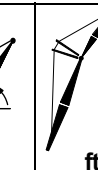
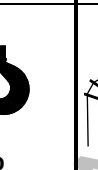
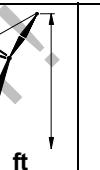
98.4 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80	63.0	189.6	98,300							80
85	59.7	186.6	90,700							85
90	56.2	183.3	84,000							90
95	52.5	179.5	78,200	58.5	182.7	73,300				95
100	48.6	175.1	72,900	54.9	179.2	68,400				100
105	44.5	170.1	68,200	51.2	175.3	64,000				105
110	40.0	164.3	64,000	47.2	170.7	60,000	53.4	174.2	56,000	110
115	35.1	157.4	60,200	43.0	165.4	56,400	49.6	170.0	52,600	115
120	29.4	148.9	56,600	38.4	159.2	53,000	45.6	165.2	49,500	120
125	22.3	137.8	53,300	33.2	151.9	50,000	41.2	159.5	46,600	125
130	11.0	119.1	50,200	27.1	142.7	47,200	36.4	152.9	44,000	130
135				19.2	130.0	44,500	30.9	144.9	41,600	135
140							24.2	134.6	39,200	140
145							14.7	119.1	37,000	145



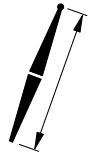
309,100 lb



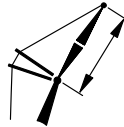
	86°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
50	73.6	219.2	208,700							50
55	71.1	217.5	183,200							55
60	68.5	215.5	162,900							60
65	65.8	213.3	146,400							65
70	63.1	210.7	132,700							70
75	60.3	207.9	121,200							75
80	57.4	204.7	111,300							80
85	54.4	201.1	102,700							85
90	51.3	197.1	95,300							90
95	48.1	192.7	88,700							95
100	44.7	187.7	82,800							100
105	41.0	182.0	77,600							105
110	37.0	175.6	72,900							110
115	32.6	168.0	68,600							115
120	27.6	158.9	64,600							120
125	21.4	147.2	61,000							125
130	12.3	129.1	57,500							130
135										135
140										140
145										145
150										150
155										155
160										160
165										165



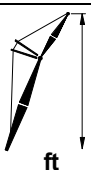
309,100 lb

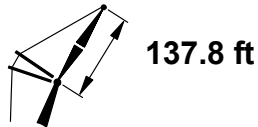
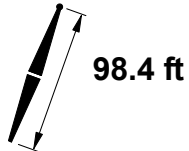
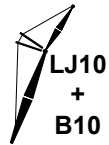


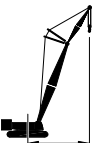
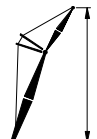
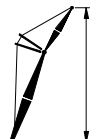
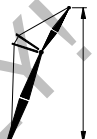
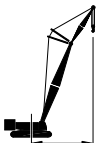
98.4 ft

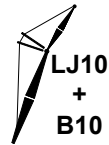


118.1 ft

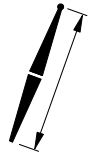
	75°			70°			65°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90	62.4	206.5	83,300							90
95	59.6	203.6	77,500							95
100	56.7	200.3	72,300							100
105	53.7	196.7	67,700	58.6	199.7	63,200				105
110	50.6	192.6	63,500	55.7	196.3	59,300				110
115	47.3	188.0	59,700	52.7	192.5	55,700				115
120	43.8	182.9	56,200	49.5	188.3	52,400				120
125	40.1	177.1	53,100	46.1	183.5	49,500	51.4	187.4	45,900	125
130	36.0	170.3	50,200	42.6	178.2	46,700	48.1	182.9	43,400	130
135	31.5	162.5	47,500	38.7	172.0	44,200	44.7	177.9	41,000	135
140	26.3	152.9	45,000	34.5	165.0	41,900	41.1	172.3	38,800	140
145	19.7	140.2	42,600	29.8	156.6	39,700	37.1	165.8	36,700	145
150	8.7	118.3	40,200	24.2	146.1	37,600	32.7	158.3	34,800	150
155				16.8	131.7	35,600	27.7	149.2	33,000	155
160							21.5	137.5	31,300	160
165							12.5	119.7	29,600	165



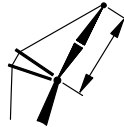
	 86°			 83°			 80°			
 ft		 ft	 lb		 ft	 lb		 ft	 lb	 ft
55	73.9	238.3	182,400							55
60	71.7	236.6	162,100							60
65	69.5	234.7	145,600	71.8	236.1	140,600				65
70	67.2	232.6	131,900	69.6	234.2	127,300				70
75	64.9	230.3	120,400	67.3	232.1	116,200				75
80	62.6	227.7	110,500	65.0	229.8	106,600	67.4	231.3	102,700	80
85	60.2	224.8	102,000	62.7	227.2	98,300	65.1	229.0	94,700	85
90	57.7	221.7	94,500	60.3	224.3	91,100	62.7	226.4	87,800	90
95	55.2	218.2	87,900	57.8	221.2	84,800	60.3	223.5	81,600	95
100	52.6	214.4	82,100	55.3	217.7	79,100	57.9	220.4	76,100	100
105	49.9	210.2	76,900	52.7	213.9	74,100	55.4	217.0	71,200	105
110	47.0	205.6	72,200	50.0	209.8	69,500	52.8	213.2	66,800	110
115	44.1	200.5	67,900	47.1	205.2	65,400	50.1	209.0	62,900	115
120	40.9	194.8	64,100	44.2	200.1	61,700	47.2	204.4	59,200	120
125	37.5	188.4	60,500	41.0	194.4	58,200	44.3	199.4	55,900	125
130	33.9	181.1	57,300	37.7	188.1	55,100	41.1	193.7	52,900	130
135	29.8	172.7	54,200	34.0	180.8	52,200	37.8	187.4	50,100	135
140	25.1	162.6	51,400	30.0	172.4	49,500	34.1	180.2	47,500	140
145	19.3	149.5	48,800	25.3	162.4	46,900	30.1	171.8	45,100	145
150	10.5	129.1	46,200	19.6	149.5	44,600	25.5	161.9	42,800	150
155				11.0	129.6	42,300	19.8	149.1	40,600	155
160							11.4	129.6	38,500	160
165										165
170										170
175										175
180										180
185										185



309,100 lb

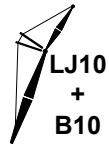


98.4 ft

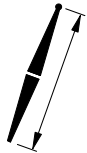


137.8 ft

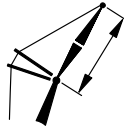
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100	62.0	223.5	71,200							100
105	59.6	220.6	66,600							105
110	57.1	217.3	62,400							110
115	54.6	213.8	58,700	58.8	216.7	54,500				115
120	51.9	209.9	55,300	56.3	213.3	51,300				120
125	49.2	205.6	52,100	53.7	209.7	48,400				125
130	46.3	200.9	49,300	51.0	205.7	45,700				130
135	43.3	195.6	46,600	48.2	201.2	43,200	52.6	204.6	39,800	135
140	40.1	189.8	44,200	45.3	196.3	40,900	49.9	200.4	37,700	140
145	36.7	183.2	41,900	42.2	190.9	38,800	47.1	195.8	35,700	145
150	33.0	175.7	39,800	39.0	184.8	36,800	44.1	190.7	33,800	150
155	28.8	166.9	37,800	35.4	177.9	34,900	41.0	185.0	32,000	155
160	23.9	156.3	35,900	31.6	170.0	33,100	37.6	178.7	30,400	160
165	17.7	142.2	34,100	27.1	160.7	31,500	33.9	171.4	28,900	165
170	6.8	116.6	32,200	21.9	149.1	29,900	29.9	163.0	27,400	170
175				14.9	133.0	28,400	25.2	152.9	26,000	175
180							19.4	139.9	24,700	180
185							10.7	119.7	23,300	185



309,100 lb



98.4 ft



157.5 ft

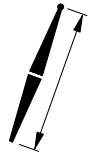
	86°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	lb	ft	
60	74.1	257.3	161,100							60
65	72.1	255.7	144,600							65
70	70.2	253.9	130,900							70
75	68.2	251.9	119,300	70.3	253.4	115,000				75
80	66.3	249.7	109,500	68.3	251.4	105,500				80
85	64.2	247.3	100,900	66.3	249.2	97,200	68.4	250.6	93,500	85
90	62.2	244.6	93,500	64.3	246.8	90,000	66.4	248.4	86,500	90
95	60.1	241.8	86,900	62.3	244.1	83,600	64.4	246.0	80,400	95
100	57.9	238.6	81,100	60.2	241.3	78,000	62.3	243.4	74,900	100
105	55.7	235.2	75,900	58.0	238.2	73,000	60.2	240.5	70,100	105
110	53.5	231.6	71,200	55.8	234.8	68,400	58.1	237.4	65,700	110
115	51.1	227.5	66,900	53.6	231.1	64,300	55.9	234.0	61,700	115
120	48.7	223.2	63,100	51.2	227.1	60,600	53.6	230.3	58,100	120
125	46.2	218.4	59,500	48.8	222.8	57,200	51.3	226.4	54,800	125
130	43.6	213.2	56,300	46.3	218.0	54,000	48.9	222.0	51,800	130
135	40.8	207.5	53,300	43.7	212.8	51,200	46.4	217.3	49,000	135
140	37.9	201.2	50,600	41.0	207.2	48,500	43.8	212.1	46,400	140
145	34.8	194.1	48,000	38.0	200.9	46,000	41.0	206.5	44,000	145
150	31.3	186.1	45,600	34.9	193.8	43,700	38.1	200.2	41,800	150
155	27.5	176.9	43,400	31.5	185.9	41,600	35.0	193.2	39,700	155
160	23.1	165.8	41,300	27.7	176.7	39,500	31.6	185.3	37,800	160
165	17.6	151.5	39,300	23.3	165.7	37,600	27.8	176.1	36,000	165
170	9.0	128.5	37,300	17.8	151.6	35,800	23.4	165.2	34,200	170
175				9.5	129.2	34,000	18.0	151.2	32,500	175
180							9.9	129.4	30,900	180
185										185
190										190
195										195
200										200
205										205

MLC300 S-1

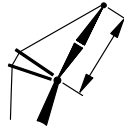
ASME B30.5



309,100 lb



98.4 ft



157.5 ft

	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105	63.8	243.1	65,300							105
110	61.7	240.4	61,100							110
115	59.6	237.5	57,400							115
120	57.4	234.3	54,000							120
125	55.2	230.9	50,900	58.8	233.6	47,000				125
130	52.9	227.1	48,000	56.7	230.4	44,300				130
135	50.6	223.0	45,400	54.4	226.8	41,900				135
140	48.2	218.6	43,000	52.1	222.9	39,600				140
145	45.6	213.7	40,700	49.8	218.7	37,500				145
150	43.0	208.4	38,600	47.3	214.1	35,500	53.5	221.8	34,300	150
155	40.2	202.6	36,700	44.7	209.1	33,700	51.2	217.8	32,500	155
160	37.2	196.1	34,900	42.0	203.6	32,000	48.8	213.4	30,700	160
165	34.0	188.8	33,100	39.2	197.6	30,400	46.3	208.7	29,100	165
170	30.5	180.6	31,500	36.1	190.9	28,800	43.6	203.5	27,600	170
175	26.5	170.9	30,000	32.8	183.3	27,400	40.9	197.8	26,200	175
180	21.9	159.3	28,500	29.2	174.6	26,000	38.0	191.5	24,800	180
185	16.0	143.8	27,100	25.0	164.4	24,700	34.8	184.4	23,600	185
190	4.8	113.5	25,600	20.1	151.7	23,500	31.4	176.4	22,400	190
195				13.3	133.8	22,200	27.6	167.2	21,200	195
200							23.1	156.1	20,100	200
205							17.7	141.9	19,000	205
							9.2	119.1	17,900	205



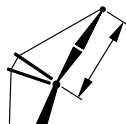
309,100 lb



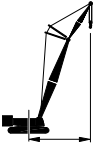
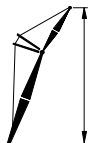
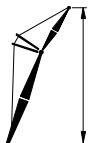
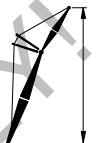
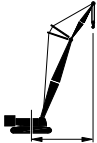
360°



98.4 ft

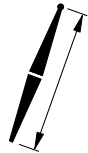


177.2 ft

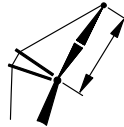
	 86°			 83°			 80°			
 ft	 ft	 ft	 lb	 ft	 ft	 lb	 ft	 ft	 lb	 ft
65	74.2	276.4	143,700							65
70	72.5	274.8	130,000							70
75	70.8	273.0	118,400							75
80	69.1	271.1	108,500	70.9	272.5	104,500				80
85	67.3	269.0	100,000	69.1	270.6	96,200				85
90	65.5	266.7	92,600	67.4	268.5	89,000				90
95	63.7	264.3	86,000	65.6	266.2	82,600	67.4	267.7	79,300	95
100	61.9	261.6	80,200	63.8	263.8	77,000	65.6	265.4	73,900	100
105	60.0	258.7	75,000	62.0	261.1	72,000	63.8	263.0	69,000	105
110	58.1	255.6	70,300	60.1	258.2	67,400	62.0	260.3	64,600	110
115	56.2	252.3	66,000	58.2	255.1	63,300	60.2	257.4	60,700	115
120	54.2	248.7	62,200	56.2	251.8	59,600	58.3	254.4	57,100	120
125	52.1	244.8	58,700	54.3	248.2	56,200	56.3	251.0	53,800	125
130	50.0	240.6	55,400	52.2	244.4	53,100	54.3	247.5	50,800	130
135	47.9	236.1	52,500	50.1	240.2	50,200	52.3	243.6	48,000	135
140	45.6	231.3	49,700	47.9	235.7	47,600	50.2	239.4	45,400	140
145	43.2	226.0	47,200	45.7	230.9	45,100	48.0	235.0	43,100	145
150	40.8	220.3	44,800	43.3	225.6	42,900	45.8	230.1	40,900	150
155	38.2	214.0	42,600	40.9	219.9	40,700	43.4	224.9	38,800	155
160	35.4	207.1	40,600	38.3	213.6	38,700	41.0	219.2	36,900	160
165	32.5	199.4	38,600	35.5	206.8	36,900	38.4	213.0	35,100	165
170	29.2	190.7	36,800	32.6	199.1	35,100	35.6	206.1	33,400	170
175	25.6	180.7	35,100	29.4	190.5	33,400	32.7	198.5	31,800	175
180	21.4	168.7	33,400	25.8	180.5	31,900	29.5	189.9	30,300	180
185	16.1	153.1	31,900	21.6	168.6	30,400	25.9	180.0	28,800	185
190	7.6	127.2	30,300	16.4	153.2	28,900	21.7	168.1	27,500	190
195				8.1	128.2	27,400	16.5	152.9	26,100	195
200							8.5	128.6	24,800	200
205										205
210										210
215										215
220										220
225										225



309,100 lb

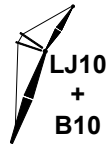


98.4 ft



177.2 ft

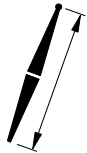
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110										110
115	63.3	260.1	56,200							115
120	61.4	257.4	52,800							120
125	59.6	254.5	49,800							125
130	57.7	251.3	46,900							130
135	55.7	247.9	44,300	58.9	250.6	40,700				135
140	53.7	244.2	41,900	57.0	247.4	38,400				140
145	51.6	240.3	39,700	55.0	243.9	36,300				145
150	49.5	236.1	37,600	53.0	240.1	34,400				150
155	47.3	231.5	35,700	50.9	236.1	32,500				155
160	45.1	226.5	33,900	48.8	231.7	30,800	52.2	235.0	27,900	160
165	42.7	221.2	32,200	46.5	227.0	29,300	50.1	230.9	26,400	165
170	40.2	215.3	30,600	44.2	221.9	27,800	47.9	226.4	25,000	170
175	37.6	208.9	29,100	41.8	216.4	26,400	45.6	221.5	23,700	175
180	34.8	201.8	27,600	39.3	210.3	25,000	43.3	216.2	22,500	180
185	31.7	193.9	26,300	36.6	203.7	23,800	40.8	210.5	21,300	185
190	28.4	185.0	25,000	33.7	196.4	22,600	38.2	204.3	20,200	190
195	24.7	174.5	23,800	30.6	188.1	21,400	35.5	197.4	19,100	195
200	20.3	161.9	22,600	27.2	178.7	20,300	32.5	189.7	18,100	200
205	14.6	145.0	21,400	23.2	167.7	19,300	29.3	181.0	17,100	205
210	1.8	105.9	20,200	18.5	153.9	18,300	25.7	171.0	16,200	210
215				12.0	134.3	17,300	21.5	159.0	15,300	215
220							16.2	143.6	14,400	220
225							7.8	118.0	13,500	225



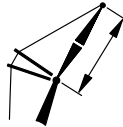
309,100 lb



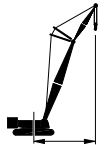
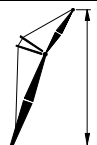
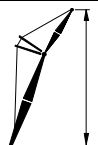
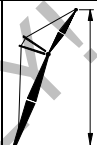
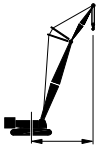
360°



98.4 ft



196.9 ft

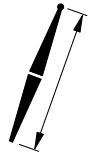
	 86°			 83°			 80°			
										
ft		ft	lb		ft	lb		ft	lb	ft
70	74.3	295.4	129,300							70
75	72.8	293.9	117,700							75
80	71.2	292.2	107,900							80
85	69.7	290.3	99,300	71.3	291.6	95,400				85
90	68.1	288.3	91,900	69.7	289.8	88,200				90
95	66.5	286.1	85,300	68.2	287.8	81,900				95
100	64.9	283.8	79,500	66.6	285.6	76,300	68.2	287.0	73,100	100
105	63.3	281.3	74,300	65.0	283.3	71,200	66.6	284.8	68,200	105
110	61.6	278.6	69,600	63.4	280.8	66,700	65.0	282.5	63,800	110
115	60.0	275.7	65,400	61.7	278.1	62,600	63.4	280.0	59,900	115
120	58.3	272.6	61,500	60.0	275.2	58,900	61.8	277.3	56,300	120
125	56.5	269.3	58,000	58.3	272.1	55,500	60.1	274.4	53,000	125
130	54.7	265.8	54,800	56.6	268.8	52,400	58.4	271.3	50,000	130
135	52.9	262.0	51,800	54.8	265.3	49,600	56.6	268.0	47,300	135
140	51.0	258.0	49,100	53.0	261.5	46,900	54.9	264.5	44,700	140
145	49.1	253.6	46,600	51.1	257.5	44,500	53.0	260.8	42,400	145
150	47.1	249.0	44,200	49.2	253.2	42,200	51.2	256.8	40,200	150
155	45.1	244.1	42,000	47.2	248.6	40,100	49.3	252.5	38,100	155
160	43.0	238.8	40,000	45.2	243.7	38,100	47.3	247.9	36,200	160
165	40.7	233.0	38,100	43.0	238.4	36,300	45.2	243.0	34,400	165
170	38.4	226.8	36,300	40.8	232.6	34,500	43.1	237.7	32,700	170
175	36.0	220.0	34,600	38.5	226.4	32,900	40.9	232.0	31,200	175
180	33.4	212.5	33,000	36.1	219.7	31,300	38.6	225.8	29,700	180
185	30.5	204.3	31,500	33.5	212.2	29,900	36.1	219.0	28,300	185
190	27.5	194.9	30,000	30.7	204.0	28,500	33.5	211.6	26,900	190
195	24.0	184.1	28,600	27.6	194.7	27,200	30.7	203.4	25,700	195
200	20.0	171.2	27,300	24.1	184.0	25,900	27.7	194.1	24,400	200
205	14.9	154.4	26,000	20.1	171.2	24,700	24.3	183.5	23,300	205
210	6.2	125.2	24,700	15.1	154.6	23,500	20.3	170.7	22,200	210
215				6.8	126.6	22,300	15.3	154.3	21,100	215
220							7.2	127.2	20,000	220
225										225
230										230
235										235
240										240
245										245

MLC300 S-1

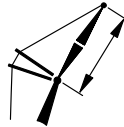
ASME B30.5



309,100 lb

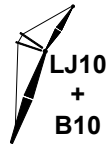


98.4 ft



196.9 ft

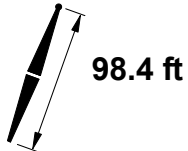
	75°			70°			65°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110										110
115										115
120										120
125	62.9	277.1	48,900							125
130	61.3	274.4	46,100							130
135	59.6	271.4	43,500							135
140	57.8	268.3	41,100							140
145	56.1	264.9	38,900	59.0	267.6	35,400				145
150	54.3	261.3	36,800	57.2	264.4	33,500				150
155	52.5	257.5	34,900	55.5	260.9	31,700				155
160	50.6	253.4	33,100	53.7	257.3	30,000				160
165	48.7	249.0	31,400	51.8	253.3	28,400				165
170	46.7	244.4	29,800	49.9	249.1	27,000	52.9	252.2	24,200	170
175	44.6	239.3	28,300	48.0	244.7	25,600	51.1	248.2	22,900	175
180	42.4	233.9	26,900	46.0	239.9	24,300	49.1	243.9	21,600	180
185	40.2	228.1	25,600	43.9	234.7	23,000	47.2	239.3	20,500	185
190	37.9	221.7	24,400	41.7	229.1	21,800	45.1	234.3	19,400	190
195	35.4	214.8	23,200	39.4	223.1	20,700	43.0	229.0	18,300	195
200	32.7	207.1	22,000	37.0	216.6	19,700	40.8	223.3	17,300	200
205	29.8	198.6	21,000	34.5	209.4	18,600	38.5	217.0	16,400	205
210	26.7	189.0	19,900	31.7	201.5	17,700	36.0	210.3	15,500	210
215	23.1	177.8	18,900	28.8	192.6	16,800	33.4	202.8	14,600	215
220	18.9	164.2	18,000	25.5	182.5	15,900	30.6	194.5	13,700	220
225	13.4	145.9	17,000	21.7	170.6	15,000	27.5	185.2	12,800	225
230				17.2	155.8	14,200	24.0	174.5	12,000	230
235				10.8	134.4	13,300	20.0	161.6	11,100	235
240							14.9	144.9	10,200	240
245							6.5	116.2	9,300	245



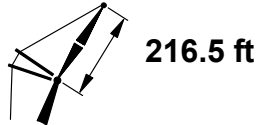
309,100 lb



360°



98.4 ft

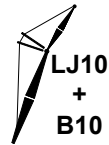


216.5 ft

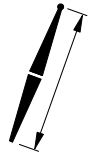
	86°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
75	74.4	314.5	111,600							75
80	73.0	312.9	106,900							80
85	71.6	311.3	98,400							85
90	70.2	309.5	90,900	71.7	310.7	87,200				90
95	68.8	307.5	84,300	70.3	308.9	80,900				95
100	67.4	305.4	78,500	68.8	307.0	75,200				100
105	65.9	303.2	73,300	67.4	304.9	70,200	68.9	306.2	67,100	105
110	64.4	300.8	68,600	66.0	302.7	65,700	67.5	304.1	62,700	110
115	63.0	298.2	64,400	64.5	300.3	61,600	66.0	301.9	58,800	115
120	61.4	295.5	60,600	63.0	297.7	57,900	64.5	299.5	55,200	120
125	59.9	292.6	57,100	61.5	295.0	54,500	63.1	296.9	51,900	125
130	58.4	289.6	53,800	60.0	292.1	51,400	61.6	294.2	48,900	130
135	56.8	286.3	50,900	58.4	289.1	48,500	60.0	291.4	46,200	135
140	55.2	282.8	48,200	56.8	285.8	45,900	58.5	288.3	43,700	140
145	53.5	279.1	45,600	55.2	282.3	43,500	56.9	285.0	41,300	145
150	51.8	275.2	43,300	53.6	278.7	41,200	55.3	281.6	39,100	150
155	50.1	271.1	41,100	51.9	274.8	39,100	53.6	277.9	37,100	155
160	48.4	266.6	39,100	50.2	270.6	37,100	52.0	274.0	35,200	160
165	46.5	261.9	37,200	48.4	266.2	35,300	50.3	269.9	33,400	165
170	44.7	256.9	35,400	46.6	261.5	33,500	48.5	265.5	31,700	170
175	42.7	251.5	33,700	44.7	256.5	31,900	46.7	260.8	30,200	175
180	40.7	245.8	32,100	42.8	251.1	30,400	44.8	255.8	28,700	180
185	38.6	239.6	30,600	40.8	245.4	28,900	42.9	250.4	27,300	185
190	36.4	232.9	29,200	38.7	239.2	27,600	40.9	244.7	26,000	190
195	34.1	225.6	27,800	36.5	232.5	26,300	38.8	238.5	24,700	195
200	31.6	217.6	26,500	34.1	225.3	25,000	36.6	231.9	23,500	200
205	28.9	208.7	25,300	31.7	217.3	23,800	34.2	224.6	22,400	205
210	25.9	198.8	24,100	29.0	208.5	22,700	31.7	216.7	21,300	210
215	22.6	187.3	23,000	26.0	198.6	21,600	29.1	207.9	20,300	215
220	18.7	173.5	21,900	22.7	187.2	20,600	26.1	198.0	19,300	220
225	13.8	155.4	20,900	18.9	173.5	19,600	22.9	186.7	18,300	225
230	4.9	122.2	19,800	14.0	155.7	18,600	19.0	173.1	17,400	230
235				5.5	124.2	17,600	14.2	155.5	16,500	235
240							6.0	125.1	15,500	240
245										245
250										250
255										255

MLC300 S-1

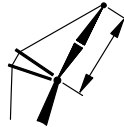
ASME B30.5



309,100 lb

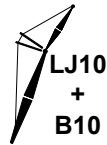


98.4 ft



216.5 ft

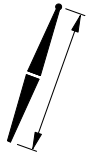
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110										110
115										115
120										120
125										125
130										130
135	62.6	294.1	42,300							135
140	61.1	291.3	39,900							140
145	59.6	288.4	37,700							145
150	58.0	285.3	35,700							150
155	56.4	281.9	33,800							155
160	54.8	278.4	32,000	57.4	281.3	28,800				160
165	53.1	274.7	30,300	55.8	277.9	27,200				165
170	51.4	270.7	28,700	54.2	274.4	25,800				170
175	49.7	266.5	27,300	52.6	270.5	24,400				175
180	47.9	262.0	25,900	50.9	266.5	23,100	53.6	269.3	20,400	180
185	46.1	257.2	24,600	49.1	262.2	21,900	51.9	265.4	19,200	185
190	44.2	252.1	23,300	47.3	257.6	20,700	50.2	261.3	18,200	190
195	42.3	246.7	22,100	45.5	252.7	19,600	48.4	256.9	17,100	195
200	40.2	240.8	21,000	43.5	247.5	18,600	46.6	252.1	16,000	200
205	38.1	234.5	20,000	41.6	241.9	17,600	44.7	247.1	15,000	205
210	35.9	227.7	18,900	39.5	235.9	16,600	42.8	241.8	14,000	210
215	33.5	220.2	18,000	37.3	229.4	15,700	40.7	236.0	13,000	215
220	30.9	212.1	17,000	35.0	222.4	14,800	38.6	229.8	12,100	220
225	28.2	203.0	16,200	32.6	214.7	14,000	36.4	223.1	11,300	225
230	25.2	192.7	15,300	30.0	206.2	13,100	34.1	215.9	10,400	230
235	21.8	180.8	14,500	27.2	196.8	12,200	31.6	207.9	9,600	235
240	17.7	166.2	13,700	24.0	186.0	11,400	28.9	199.0	8,800	240
245	12.3	146.5	12,800	20.4	173.3	10,500	26.0	189.1	8,100	245
250				16.0	157.4	9,700	22.7	177.6	7,300	250
255				9.7	134.1	8,900				255



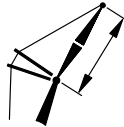
309,100 lb



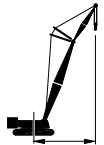
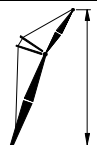
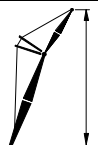
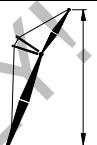
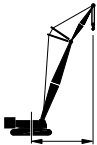
360°



98.4 ft



236.2 ft

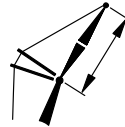
	 86°			 83°			 80°			
 ft		 ft	 lb		 ft	 lb		 ft	 lb	 ft
80	74.5	333.5	91,300							80
85	73.2	332.0	90,400							85
90	71.9	330.4	89,400							90
95	70.6	328.6	83,500	72.0	329.8	79,900				95
100	69.3	326.7	77,700	70.7	328.1	74,300				100
105	68.0	324.7	72,500	69.4	326.2	69,300				105
110	66.7	322.5	67,800	68.1	324.2	64,800				110
115	65.4	320.2	63,500	66.8	322.0	60,700	68.1	323.4	57,800	115
120	64.0	317.8	59,700	65.4	319.7	57,000	66.8	321.2	54,300	120
125	62.7	315.2	56,200	64.1	317.3	53,600	65.5	318.9	51,000	125
130	61.3	312.5	53,000	62.7	314.7	50,500	64.1	316.5	48,000	130
135	59.9	309.6	50,000	61.3	312.0	47,600	62.8	313.9	45,300	135
140	58.5	306.5	47,300	59.9	309.1	45,000	61.4	311.2	42,700	140
145	57.0	303.3	44,800	58.5	306.0	42,600	60.0	308.3	40,400	145
150	55.5	299.9	42,500	57.1	302.8	40,300	58.6	305.3	38,200	150
155	54.0	296.2	40,300	55.6	299.4	38,200	57.1	302.0	36,200	155
160	52.5	292.4	38,200	54.1	295.8	36,300	55.6	298.6	34,300	160
165	51.0	288.4	36,300	52.6	292.0	34,400	54.2	295.0	32,500	165
170	49.4	284.1	34,500	51.0	287.9	32,700	52.6	291.2	30,800	170
175	47.7	279.6	32,900	49.4	283.7	31,100	51.1	287.2	29,300	175
180	46.0	274.8	31,300	47.8	279.1	29,500	49.5	282.9	27,800	180
185	44.3	269.7	29,800	46.1	274.4	28,100	47.8	278.4	26,400	185
190	42.5	264.3	28,400	44.4	269.3	26,700	46.2	273.6	25,100	190
195	40.7	258.5	27,000	42.6	263.9	25,400	44.4	268.6	23,900	195
200	38.8	252.3	25,800	40.8	258.1	24,200	42.7	263.2	22,700	200
205	36.7	245.7	24,600	38.8	252.0	23,100	40.8	257.4	21,500	205
210	34.6	238.6	23,400	36.8	245.4	21,900	38.9	251.3	20,500	210
215	32.4	230.8	22,300	34.7	238.3	20,900	36.9	244.7	19,500	215
220	30.0	222.3	21,300	32.5	230.5	19,900	34.8	237.6	18,500	220
225	27.4	212.9	20,200	30.1	222.1	18,900	32.6	229.9	17,600	225
230	24.6	202.4	19,300	27.5	212.7	18,000	30.2	221.5	16,700	230
235	21.4	190.2	18,300	24.7	202.2	17,100	27.6	212.2	15,800	235
240	17.6	175.5	17,400	21.5	190.1	16,200	24.8	201.7	15,000	240
245	12.8	156.2	16,500	17.8	175.5	15,400	21.6	189.6	14,200	245
250	3.3	117.4	15,600	13.0	156.5	14,500	17.9	175.2	13,400	250
255				4.2	120.5	13,600	13.2	156.3	12,600	255
260							4.8	122.0	11,800	260
265										265



309,100 lb

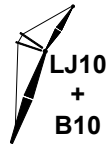


98.4 ft



236.2 ft

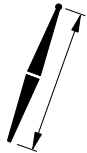
	75°			70°			
ft	ft	ft	lb	ft	lb	ft	ft
80							80
85							85
90							90
95							95
100							100
105							105
110							110
115							115
120							120
125							125
130							130
135							135
140	63.7	313.7	39,000				140
145	62.3	311.0	36,700				145
150	61.0	308.3	34,700				150
155	59.5	305.3	32,800				155
160	58.1	302.2	31,000				160
165	56.7	298.9	29,300				165
170	55.2	295.5	27,800	57.6	298.3	24,800	170
175	53.7	291.8	26,300	56.2	295.0	23,400	175
180	52.2	287.9	24,900	54.7	291.4	22,100	180
185	50.6	283.8	23,600	53.2	287.7	20,900	185
190	49.0	279.5	22,400	51.6	283.7	19,700	190
195	47.3	274.9	21,200	50.0	279.6	18,600	195
200	45.6	270.1	20,100	48.4	275.2	17,600	200
205	43.9	264.9	19,100	46.8	270.5	16,600	205
210	42.1	259.4	18,100	45.0	265.5	15,600	210
215	40.2	253.5	17,100	43.3	260.2	14,600	215
220	38.3	247.3	16,200	41.5	254.6	13,600	220
225	36.3	240.5	15,300	39.6	248.6	12,700	225
230	34.1	233.3	14,500	37.6	242.2	11,800	230
235	31.8	225.4	13,700	35.5	235.3	11,000	235
240	29.4	216.7	12,800	33.3	227.8	10,100	240
245	26.8	207.0	12,000	31.0	219.6	9,300	245
250	23.9	196.1	11,200	28.5	210.6	8,600	250
255	20.6	183.5	10,300	25.8	200.6	7,800	255
260	16.6	168.0	9,600	22.8	189.2	7,100	260
265	11.3	146.8	8,800				265



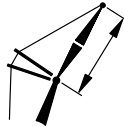
309,100 lb



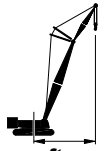
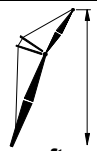
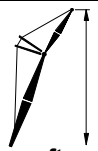
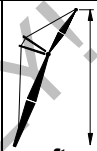
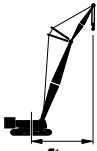
360°



98.4 ft



255.9 ft

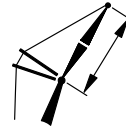
	 86°			 83°			 80°			
										
ft		ft	lb		ft	lb		ft	lb	ft
85	74.5	352.6	75,400							85
90	73.4	351.1	74,500							90
95	72.2	349.5	73,500							95
100	71.0	347.7	72,600							100
105	69.8	345.9	71,500	71.0	347.2	68,200				105
110	68.6	343.9	66,800	69.9	345.4	63,700				110
115	67.4	341.8	62,600	68.7	343.4	59,600				115
120	66.2	339.6	58,700	67.4	341.3	55,900	68.7	342.6	53,200	120
125	64.9	337.3	55,200	66.2	339.1	52,500	67.5	340.5	49,900	125
130	63.7	334.8	52,000	65.0	336.8	49,500	66.3	338.3	46,900	130
135	62.4	332.2	49,100	63.7	334.3	46,600	65.0	336.0	44,200	135
140	61.1	329.4	46,300	62.5	331.7	44,000	63.8	333.5	41,600	140
145	59.8	326.5	43,800	61.2	328.9	41,500	62.5	330.9	39,300	145
150	58.5	323.5	41,500	59.9	326.0	39,300	61.2	328.2	37,100	150
155	57.2	320.3	39,300	58.6	323.0	37,200	59.9	325.3	35,100	155
160	55.9	316.9	37,300	57.3	319.8	35,200	58.6	322.2	33,200	160
165	54.5	313.3	35,300	55.9	316.4	33,400	57.3	319.0	31,400	165
170	53.1	309.6	33,600	54.5	312.9	31,700	56.0	315.6	29,800	170
175	51.7	305.6	31,900	53.1	309.1	30,000	54.6	312.1	28,200	175
180	50.2	301.5	30,300	51.7	305.2	28,500	53.2	308.4	26,700	180
185	48.7	297.1	28,800	50.3	301.0	27,100	51.8	304.4	25,400	185
190	47.2	292.5	27,400	48.8	296.7	25,700	50.3	300.3	24,100	190
195	45.6	287.6	26,100	47.3	292.1	24,400	48.8	295.9	22,800	195
200	44.0	282.5	24,800	45.7	287.2	23,200	47.3	291.3	21,600	200
205	42.4	277.0	23,600	44.1	282.1	22,100	45.7	286.5	20,500	205
210	40.7	271.3	22,500	42.4	276.6	21,000	44.1	281.4	19,500	210
215	38.9	265.1	21,400	40.7	270.9	19,900	42.5	275.9	18,400	215
220	37.0	258.5	20,300	39.0	264.7	18,900	40.8	270.2	17,500	220
225	35.1	251.5	19,300	37.1	258.2	18,000	39.0	264.1	16,600	225
230	33.1	244.0	18,400	35.2	251.2	17,000	37.2	257.5	15,700	230
235	30.9	235.7	17,500	33.2	243.7	16,200	35.2	250.5	14,800	235
240	28.6	226.8	16,600	31.0	235.5	15,300	33.2	243.0	14,000	240
245	26.1	216.9	15,800	28.7	226.5	14,500	31.1	234.9	13,200	245
250	23.4	205.7	14,900	26.2	216.7	13,700	28.8	226.0	12,400	250
255	20.3	192.8	14,200	23.5	205.6	13,000	26.3	216.1	11,600	255
260	16.6	177.3	13,400	20.4	192.8	12,200	23.6	205.0	10,800	260
265	11.9	156.7	12,600	16.8	177.3	11,500	20.5	192.3	10,000	265
270				12.1	157.0	10,700	16.9	177.0	9,200	270
275				2.4	114.1	9,700	12.3	156.9	8,400	275
280							3.3	117.2	7,600	280



309,100 lb

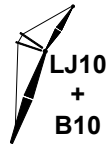


98.4 ft



255.9 ft

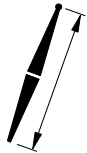
	75°			70°			
ft	ft	ft	lb	ft	lb	ft	ft
85							85
90							90
95							95
100							100
105							105
110							110
115							115
120							120
125							125
130							130
135							135
140							140
145							145
150	63.4	330.7	33,500				150
155	62.1	328.0	31,600				155
160	60.8	325.2	29,900				160
165	59.5	322.3	28,200				165
170	58.2	319.2	26,600				170
175	56.9	315.9	25,200				175
180	55.5	312.5	23,800	57.8	315.3	20,900	180
185	54.2	308.9	22,500	56.4	312.0	19,700	185
190	52.7	305.1	21,300	55.1	308.5	18,500	190
195	51.3	301.1	20,100	53.7	304.8	17,200	195
200	49.9	296.9	19,000	52.3	301.0	16,100	200
205	48.4	292.5	18,000	50.8	296.9	15,000	205
210	46.8	287.8	17,000	49.3	292.6	13,900	210
215	45.3	282.9	16,000	47.8	288.1	12,900	215
220	43.6	277.7	15,000	46.3	283.3	12,000	220
225	42.0	272.2	14,000	44.7	278.3	11,100	225
230	40.2	266.3	13,100	43.1	273.0	10,200	230
235	38.5	260.1	12,200	41.4	267.4	9,400	235
240	36.6	253.4	11,300	39.6	261.4	8,600	240
245	34.6	246.2	10,500	37.8	255.0	7,800	245
250	32.6	238.5	9,700	35.9	248.2	7,000	250
255	30.4	230.2	8,900				255
260	28.1	221.0	8,200				260
265	25.5	210.8	7,400				265
270							270
275							275
280							280



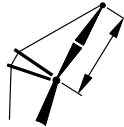
309,100 lb



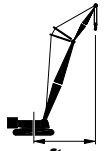
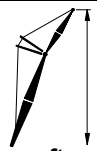
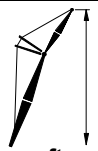
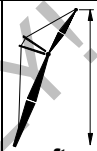
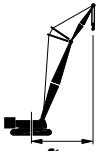
360°



98.4 ft



275.6 ft

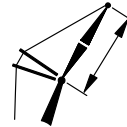
	 86°			 83°			 80°			
 ft		 ft	 lb		 ft	 lb		 ft	 lb	 ft
90	74.6	371.6	61,500							90
95	73.5	370.1	60,600							95
100	72.4	368.5	59,700							100
105	71.3	366.8	58,900							105
110	70.2	365.0	58,000	71.4	366.3	58,100				110
115	69.1	363.1	57,200	70.3	364.5	57,400				115
120	68.0	361.1	56,400	69.1	362.6	55,100				120
125	66.8	359.0	54,400	68.0	360.6	51,700				125
130	65.7	356.7	51,200	66.9	358.4	48,600	68.1	359.8	46,000	130
135	64.6	354.3	48,200	65.7	356.2	45,800	66.9	357.6	43,300	135
140	63.4	351.8	45,500	64.6	353.8	43,100	65.8	355.4	40,700	140
145	62.2	349.2	43,000	63.4	351.3	40,700	64.6	353.0	38,400	145
150	61.0	346.4	40,700	62.3	348.7	38,400	63.5	350.5	36,200	150
155	59.8	343.5	38,500	61.1	345.9	36,300	62.3	347.9	34,200	155
160	58.6	340.4	36,400	59.9	343.0	34,400	61.1	345.1	32,300	160
165	57.4	337.2	34,500	58.7	340.0	32,600	59.9	342.2	30,600	165
170	56.1	333.9	32,800	57.4	336.8	30,800	58.7	339.2	28,900	170
175	54.8	330.4	31,100	56.2	333.4	29,200	57.5	336.0	27,400	175
180	53.6	326.7	29,500	54.9	329.9	27,700	56.2	332.7	25,900	180
185	52.2	322.8	28,000	53.6	326.2	26,300	54.9	329.1	24,500	185
190	50.9	318.8	26,600	52.3	322.4	24,900	53.7	325.5	23,200	190
195	49.5	314.5	25,300	51.0	318.3	23,600	52.3	321.6	22,000	195
200	48.1	310.1	24,000	49.6	314.1	22,400	51.0	317.6	20,800	200
205	46.7	305.4	22,800	48.2	309.6	21,300	49.6	313.4	19,700	205
210	45.3	300.4	21,700	46.8	305.0	20,200	48.2	308.9	18,600	210
215	43.8	295.3	20,600	45.3	300.0	19,100	46.8	304.2	17,600	215
220	42.2	289.8	19,600	43.8	294.9	18,100	45.4	299.3	16,700	220
225	40.6	284.0	18,600	42.3	289.4	17,200	43.9	294.1	15,800	225
230	39.0	277.9	17,700	40.7	283.6	16,300	42.3	288.7	14,900	230
235	37.3	271.4	16,700	39.1	277.5	15,400	40.7	282.9	13,900	235
240	35.5	264.4	15,900	37.4	271.0	14,600	39.1	276.8	13,000	240
245	33.6	257.0	15,000	35.6	264.1	13,800	37.4	270.4	12,100	245
250	31.7	249.0	14,200	33.7	256.7	12,900	35.6	263.5	11,200	250
255	29.6	240.4	13,500	31.8	248.8	12,100	33.8	256.1	10,400	255
260	27.4	231.0	12,700	29.7	240.1	11,200	31.8	248.1	9,600	260
265	25.0	220.5	12,000	27.5	230.7	10,400	29.8	239.6	8,900	265
270	22.3	208.8	11,200	25.1	220.4	9,700	27.6	230.2	8,100	270
275	19.3	195.2	10,400	22.4	208.7	8,900	25.2	219.8	7,400	275
280	15.8	178.8	9,700	19.5	195.2	8,200				280
285	11.1	156.9	8,900	15.9	178.9	7,500				285



309,100 lb

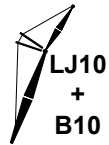


98.4 ft



275.6 ft

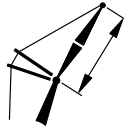
	75°			70°			
ft	ft	ft	lb	ft	ft	lb	ft
90							90
95							95
100							100
105							105
110							110
115							115
120							120
125							125
130							130
135							135
140							140
145							145
150							150
155							155
160	63.1	347.7	28,900				160
165	61.9	345.0	27,300				165
170	60.7	342.2	25,700				170
175	59.5	339.2	24,300				175
180	58.3	336.2	22,900				180
185	57.1	332.9	21,600				185
190	55.8	329.5	20,400	57.9	332.3	17,100	190
195	54.5	326.0	19,200	56.6	329.0	15,900	195
200	53.3	322.3	18,100	55.4	325.5	14,700	200
205	51.9	318.4	16,900	54.1	321.9	13,600	205
210	50.6	314.3	15,800	52.8	318.1	12,600	210
215	49.2	310.0	14,800	51.5	314.2	11,600	215
220	47.8	305.4	13,700	50.1	310.0	10,700	220
225	46.4	300.7	12,800	48.7	305.6	9,800	225
230	44.9	295.7	11,800	47.3	301.0	8,900	230
235	43.4	290.5	11,000	45.9	296.2	8,100	235
240	41.9	284.9	10,100	44.4	291.1	7,300	240
245	40.3	279.0	9,300				245
250	38.6	272.8	8,500				250
255	36.9	266.2	7,700				255
260	35.1	259.2	7,000				260
265							265
270							270
275							275
280							280
285							285



309,100 lb

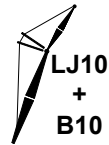


118.1 ft

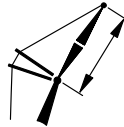
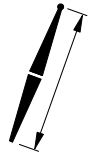


78.7 ft

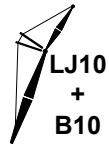
	86°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
40	73.8	201.2	286,600 c							40
45	70.0	199.3	242,000 c							45
50	66.0	197.1	209,000 b							50
55	61.9	194.4	183,600	70.9	199.1	201,200 c				55
60	57.6	191.3	163,300	67.0	197.0	176,700 b				60
65	53.0	187.5	146,800	62.9	194.4	157,200	67.9	196.5	151,000 b	65
70	48.2	183.1	133,100	58.6	191.4	141,300	63.9	194.0	135,700 b	70
75	42.9	177.8	121,500	54.2	187.8	128,100	59.7	191.1	123,000	75
80	37.0	171.4	111,600	49.4	183.6	116,900	55.2	187.7	112,300	80
85	30.0	163.2	102,900	44.2	178.5	107,300	50.5	183.6	103,100	85
90				38.5	172.4	99,000	45.5	178.7	95,100	90
95	20.8	151.6	95,200	31.8	164.7	91,700	39.9	172.9	88,100	95
100				23.4	154.3	85,200	33.5	165.7	81,900	100
105				7.8	133.5	79,000	25.6	156.1	76,300	105
110							13.5	140.2	71,100	110
115										115
120										120
125										125
130										130
135										135



309,100 lb



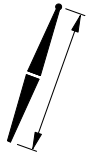
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75	64.0	191.7	104,600 b							75
80	59.8	188.8	96,000							80
85	55.4	185.3	88,500							85
90	50.7	181.3	82,000							90
95	45.6	176.5	76,300	55.3	182.0	70,600				95
100	40.1	170.7	71,100	50.6	177.9	65,800				100
105	33.7	163.5	66,500	45.5	173.1	61,500				105
110	25.9	154.0	62,200	40.0	167.2	57,700	50.2	173.3	53,000	110
115	14.0	138.5	58,200	33.6	160.0	54,100	45.1	168.4	49,800	115
120				25.7	150.5	50,800	39.4	162.5	46,800	120
125				13.7	134.7	47,600	33.0	155.2	44,000	125
130							24.9	145.3	41,400	130
135							12.0	128.3	38,800	135



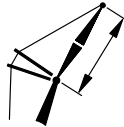
309,100 lb



360°



118.1 ft

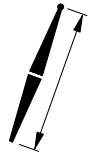


98.4 ft

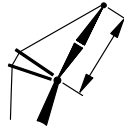
	86°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
45	74.1	220.2	241,400 b							45
50	71.1	218.5	208,400 b							50
55	67.9	216.5	183,000							55
60	64.7	214.1	162,800	71.8	218.2	175,800 b				60
65	61.4	211.4	146,300	68.7	216.3	156,300				65
70	58.0	208.2	132,600	65.5	214.0	140,500				70
75	54.4	204.7	121,100	62.2	211.4	127,400	66.3	213.5	122,100	75
80	50.6	200.6	111,200	58.8	208.3	116,300	63.0	211.0	111,400	80
85	46.7	196.0	102,700	55.3	204.9	106,800	59.6	208.1	102,300	85
90	42.4	190.6	95,200	51.6	201.0	98,500	56.1	204.7	94,400	90
95	37.7	184.3	88,600	47.6	196.4	91,400	52.5	200.9	87,500	95
100	32.4	176.7	82,700	43.5	191.3	85,000	48.6	196.5	81,400	100
105	26.1	167.1	77,400	38.9	185.2	79,300	44.5	191.5	76,000	105
110	17.7	153.6	72,500	33.8	178.0	74,300	40.0	185.7	71,100	110
115				27.8	169.0	69,600	35.0	178.8	66,700	115
120				20.1	156.8	65,400	29.3	170.3	62,700	120
125				3.8	129.3	61,200	22.2	159.1	59,000	125
130							10.8	140.2	55,400	130
135										135
140										140
145										145
150										150
155										155



309,100 lb

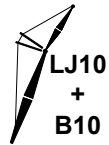


118.1 ft

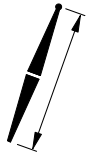


98.4 ft

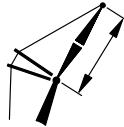
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85	63.1	208.6	87,500							85
90	59.7	205.7	81,000							90
95	56.2	202.4	75,400							95
100	52.6	198.6	70,300							100
105	48.7	194.2	65,800	56.2	199.0	60,500				105
110	44.6	189.2	61,700	52.5	195.2	56,700				110
115	40.1	183.4	58,000	48.6	190.8	53,300				115
120	35.2	176.6	54,600	44.5	185.8	50,100	52.2	190.7	45,700	120
125	29.5	168.1	51,400	40.0	180.0	47,200	48.3	186.3	43,100	125
130	22.4	157.1	48,500	35.1	173.1	44,600	44.1	181.2	40,600	130
135	11.3	138.7	45,700	29.4	164.6	42,100	39.6	175.3	38,300	135
140				22.2	153.5	39,700	34.6	168.3	36,200	140
145				10.9	134.7	37,400	28.8	159.6	34,200	145
150							21.5	148.2	32,300	150
155							9.2	127.7	30,400	155



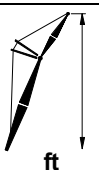
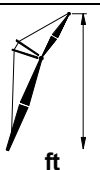
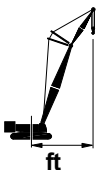
309,100 lb



118.1 ft



118.1 ft

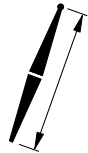
	86°			83°			80°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
50	74.3	239.3	207,900 b							50
55	71.8	237.6	182,500							55
60	69.2	235.7	162,300							60
65	66.5	233.5	145,800	69.8	235.5	139,900				65
70	63.8	231.1	132,200	67.2	233.4	126,700				70
75	61.1	228.3	120,700	64.5	231.0	115,700	67.8	232.9	110,700	75
80	58.2	225.2	110,800	61.8	228.3	106,200	65.1	230.6	101,600	80
85	55.3	221.8	102,300	58.9	225.3	98,000	62.4	227.9	93,700	85
90	52.2	217.9	94,900	56.0	221.9	90,900	59.6	225.0	86,900	90
95	49.0	213.6	88,300	53.0	218.2	84,600	56.7	221.7	80,800	95
100	45.6	208.8	82,500	49.8	214.0	79,000	53.7	218.1	75,400	100
105	42.0	203.3	77,300	46.5	209.3	73,900	50.6	214.0	70,600	105
110	38.2	197.1	72,600	42.9	204.0	69,400	47.3	209.4	66,300	110
115	33.9	189.8	68,300	39.1	198.0	65,300	43.8	204.3	62,300	115
120	29.1	181.2	64,400	35.0	191.0	61,600	40.1	198.4	58,800	120
125	23.3	170.4	60,800	30.3	182.8	58,100	36.0	191.7	55,500	125
130	15.4	155.0	57,400	24.8	172.6	55,000	31.5	183.8	52,400	130
135				17.7	158.8	52,000	26.2	174.2	49,600	135
140							19.6	161.5	47,000	140
145							8.5	139.3	44,400	145
150										150
155										155
160										160
165										165
170										170
175										175

MLC300 S-1

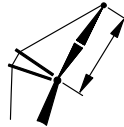
ASME B30.5



309,100 lb

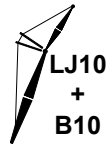


118.1 ft



118.1 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95	62.5	225.6	74,600							95
100	59.7	222.7	69,600							100
105	56.8	219.4	65,100							105
110	53.8	215.8	61,000							110
115	50.7	211.7	57,400	56.7	216.0	52,500				115
120	47.4	207.1	54,000	53.7	212.4	49,400				120
125	43.9	202.0	51,000	50.6	208.3	46,600				125
130	40.2	196.2	48,200	47.3	203.7	44,000	53.5	207.9	39,800	130
135	36.1	189.5	45,600	43.8	198.6	41,600	50.3	203.8	37,600	135
140	31.6	181.6	43,200	40.1	192.8	39,300	47.0	199.2	35,600	140
145	26.4	172.1	40,900	36.0	186.0	37,300	43.5	194.0	33,600	145
150	19.8	159.5	38,800	31.5	178.2	35,300	39.8	188.1	31,900	150
155	9.1	138.0	36,600	26.3	168.6	33,500	35.7	181.3	30,200	155
160				19.7	155.9	31,700	31.1	173.3	28,600	160
165				8.7	134.0	29,900	25.8	163.5	27,100	165
170							19.0	150.4	25,600	170
175							6.9	126.0	24,100	175



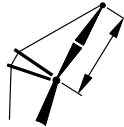
309,100 lb



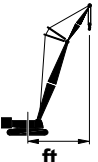
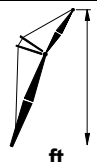
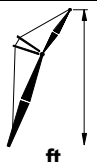
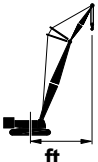
360°



118.1 ft

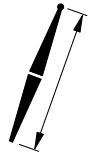


137.8 ft

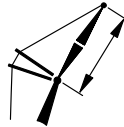
	 86°			 83°			 80°			
 ft	 ft	 ft	 lb	 ft	 ft	 lb	 ft	 ft	 lb	 ft
55	74.5	258.3	181,600							55
60	72.3	256.7	161,400							60
65	70.1	254.9	145,000							65
70	67.8	252.9	131,400	70.6	254.7	125,800				70
75	65.5	250.6	119,900	68.4	252.7	114,700				75
80	63.2	248.1	110,000	66.1	250.5	105,300	68.9	252.1	100,500	80
85	60.8	245.3	101,500	63.8	248.0	97,100	66.6	250.0	92,700	85
90	58.4	242.2	94,100	61.4	245.3	90,000	64.3	247.6	85,800	90
95	55.9	238.8	87,600	59.0	242.3	83,700	62.0	244.9	79,800	95
100	53.3	235.1	81,700	56.5	239.0	78,100	59.6	242.0	74,400	100
105	50.6	231.0	76,500	53.9	235.3	73,100	57.1	238.7	69,600	105
110	47.8	226.5	71,900	51.3	231.4	68,600	54.6	235.2	65,300	110
115	44.9	221.6	67,600	48.5	227.0	64,500	51.9	231.3	61,400	115
120	41.8	216.0	63,800	45.6	222.1	60,800	49.2	227.0	57,900	120
125	38.5	209.9	60,200	42.6	216.7	57,400	46.3	222.3	54,600	125
130	34.9	202.9	57,000	39.3	210.7	54,300	43.3	217.0	51,600	130
135	31.0	194.8	54,000	35.8	204.0	51,500	40.1	211.2	48,900	135
140	26.5	185.2	51,200	32.0	196.2	48,800	36.7	204.6	46,300	140
145	21.0	173.2	48,600	27.6	187.0	46,300	32.9	197.1	44,000	145
150	13.6	155.9	46,100	22.5	175.7	44,000	28.7	188.3	41,800	150
155				15.7	160.3	41,700	23.8	177.6	39,700	155
160							17.6	163.5	37,700	160
165							6.5	137.5	35,600	165
170										170
175										175
180										180
185										185
190										190
195										195



309,100 lb



118.1 ft



137.8 ft

	75°			70°			65°			
										
	ft	ft	ft	lb	ft	ft	lb	ft	ft	ft
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110										110
115										115
120										120
125										125
130	62.1	242.6	63,900							130
135	59.6	239.6	59,900							135
140	57.2	236.4	56,300							140
145	54.6	232.9	53,000							145
150	52.0	229.0	50,000							150
155	49.3	224.7	47,200	57.1	233.0	45,400				155
160	46.4	220.0	44,600	54.6	229.5	42,800				160
165	43.4	214.8	42,300	51.9	225.6	40,400				165
170	40.2	208.9	40,100	49.2	221.3	38,200				170
175	36.8	202.4	38,000	46.3	216.6	36,200	51.7	221.1	32,400	175
180	33.0	194.9	36,100	43.3	211.3	34,300	49.0	216.8	30,700	180
185	28.8	186.1	34,300	40.1	205.5	32,600	46.1	212.0	29,100	185
190	24.0	175.5	32,600	36.7	198.9	30,900	43.1	206.7	27,500	190
195	17.8	161.6	30,900	32.9	191.4	29,300	39.9	200.8	26,100	195
200	7.2	136.5	29,300	28.7	182.6	27,800	36.4	194.2	24,700	200
205				23.9	172.0	26,400	32.6	186.6	23,500	205
210				17.6	157.9	25,100	28.4	177.7	22,200	210
215				6.7	132.2	23,600	23.4	166.8	21,100	215
220							17.0	152.3	19,900	220
225							4.4	122.5	18,600	225



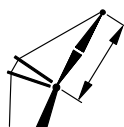
309,100 lb



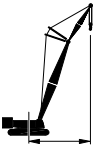
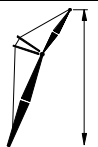
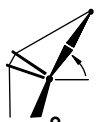
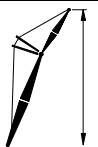
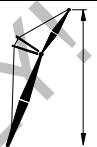
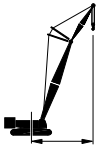
360°

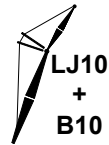


118.1 ft

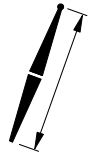


157.5 ft

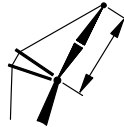
	 86°			 83°			 80°			
 ft	 °	 ft	 lb	 °	 ft	 lb	 °	 ft	 lb	 ft
60	74.6	277.4	160,400							60
65	72.7	275.8	143,900							65
70	70.7	274.1	130,300							70
75	68.8	272.1	118,800	71.2	273.8	113,500				75
80	66.8	270.0	109,000	69.3	271.9	104,100				80
85	64.8	267.6	100,500	67.3	269.8	95,900				85
90	62.8	265.0	93,000	65.3	267.5	88,800	67.8	269.3	84,600	90
95	60.7	262.2	86,500	63.3	265.0	82,500	65.8	267.0	78,500	95
100	58.5	259.2	80,700	61.2	262.2	76,900	63.7	264.6	73,200	100
105	56.4	255.8	75,500	59.1	259.2	71,900	61.7	261.9	68,400	105
110	54.1	252.2	70,800	56.9	256.0	67,500	59.6	258.9	64,100	110
115	51.8	248.3	66,600	54.7	252.4	63,400	57.4	255.7	60,200	115
120	49.4	244.1	62,800	52.4	248.6	59,700	55.2	252.3	56,700	120
125	46.9	239.4	59,300	50.0	244.4	56,300	52.9	248.5	53,400	125
130	44.3	234.4	56,000	47.5	239.9	53,300	50.6	244.4	50,500	130
135	41.6	228.8	53,100	45.0	234.9	50,400	48.1	240.0	47,800	135
140	38.7	222.6	50,300	42.3	229.5	47,800	45.6	235.1	45,200	140
145	35.6	215.8	47,800	39.5	223.5	45,300	42.9	229.8	42,900	145
150	32.3	208.1	45,400	36.4	216.8	43,100	40.1	223.9	40,700	150
155	28.6	199.2	43,200	33.2	209.4	40,900	37.2	217.4	38,700	155
160	24.4	188.7	41,100	29.5	200.8	38,900	33.9	210.2	36,800	160
165	19.2	175.5	39,100	25.5	190.8	37,000	30.4	201.9	35,000	165
170	12.0	156.3	37,200	20.6	178.4	35,300	26.5	192.3	33,300	170
175				14.1	161.4	33,500	21.9	180.6	31,700	175
180							15.9	165.0	30,100	180
185							4.5	134.1	28,500	185
190										190
195										195
200										200
205										205
210										210



309,100 lb

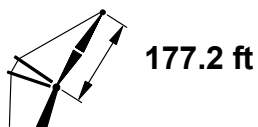
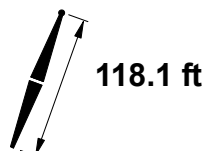


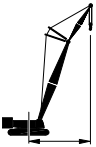
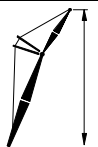
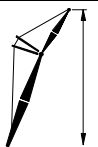
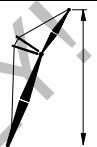
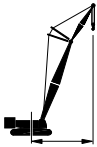
118.1 ft



157.5 ft

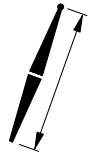
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110	63.8	262.2	58,500							110
115	61.7	259.5	54,900							115
120	59.6	256.6	51,600							120
125	57.5	253.4	48,600							125
130	55.3	249.9	45,900							130
135	53.0	246.2	43,400	57.4	250.0	39,000				135
140	50.6	242.1	41,000	55.2	246.6	36,900				140
145	48.2	237.7	38,900	52.9	242.8	34,900				145
150	45.7	232.8	36,800	50.6	238.7	33,000				150
155	43.0	227.5	34,900	48.2	234.3	31,300	52.7	238.3	27,700	155
160	40.2	221.7	33,200	45.6	229.4	29,600	50.4	234.2	26,200	160
165	37.2	215.2	31,500	43.0	224.1	28,100	47.9	229.7	24,700	165
170	34.0	208.0	30,000	40.2	218.3	26,700	45.4	224.8	23,400	170
175	30.5	199.7	28,500	37.2	211.8	25,300	42.7	219.5	22,200	175
180	26.6	190.1	27,100	34.0	204.5	24,000	39.9	213.6	21,000	180
185	22.0	178.5	25,700	30.5	196.2	22,800	36.9	207.0	19,900	185
190	16.1	163.2	24,400	26.5	186.6	21,600	33.7	199.7	18,800	190
195	5.3	133.8	23,000	21.9	175.0	20,500	30.1	191.3	17,800	195
200				16.0	159.5	19,400	26.2	181.6	16,800	200
205				4.8	129.1	18,200	21.5	169.7	15,900	205
210							15.4	153.7	14,900	210



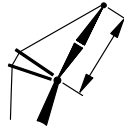
	 86°			 83°			 80°			
 ft	 °	 ft	 lb	 °	 ft	 lb	 °	 ft	 lb	 ft
65	74.7	296.4	143,000							65
70	73.0	294.9	129,400							70
75	71.3	293.2	117,900							75
80	69.5	291.3	108,000	71.7	292.9	103,000				80
85	67.8	289.3	99,500	70.0	291.1	94,900				85
90	66.0	287.0	92,100	68.2	289.1	87,700				90
95	64.2	284.6	85,600	66.4	286.9	81,500	68.6	288.5	77,400	95
100	62.4	282.0	79,800	64.7	284.5	75,900	66.9	286.4	72,000	100
105	60.5	279.2	74,600	62.8	281.9	70,900	65.1	284.1	67,300	105
110	58.6	276.1	69,900	61.0	279.2	66,400	63.3	281.5	63,000	110
115	56.7	272.9	65,700	59.1	276.2	62,400	61.4	278.8	59,100	115
120	54.7	269.3	61,900	57.2	273.0	58,700	59.6	275.9	55,600	120
125	52.7	265.5	58,400	55.2	269.5	55,400	57.6	272.7	52,400	125
130	50.6	261.4	55,100	53.2	265.8	52,300	55.7	269.3	49,400	130
135	48.5	257.0	52,200	51.1	261.8	49,500	53.7	265.6	46,700	135
140	46.2	252.3	49,500	49.0	257.4	46,800	51.6	261.7	44,200	140
145	43.9	247.1	46,900	46.8	252.8	44,400	49.5	257.5	41,900	145
150	41.5	241.5	44,600	44.5	247.7	42,200	47.3	252.9	39,700	150
155	38.9	235.4	42,400	42.1	242.2	40,100	45.0	247.9	37,700	155
160	36.2	228.7	40,300	39.6	236.3	38,100	42.7	242.5	35,800	160
165	33.3	221.2	38,400	36.9	229.7	36,200	40.2	236.7	34,100	165
170	30.2	212.9	36,600	34.0	222.4	34,500	37.5	230.3	32,400	170
175	26.6	203.2	34,900	31.0	214.3	32,900	34.7	223.2	30,800	175
180	22.6	191.9	33,200	27.5	205.0	31,300	31.7	215.3	29,400	180
185	17.7	177.6	31,700	23.7	194.1	29,800	28.4	206.3	28,000	185
190	10.7	156.4	30,100	19.0	180.7	28,400	24.6	195.9	26,600	190
195				12.8	162.1	27,000	20.2	183.2	25,300	195
200							14.5	166.2	24,100	200
205										205
210										210
215										215
220										220
225										225
230										230



309,100 lb

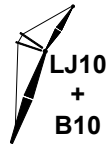


118.1 ft



177.2 ft

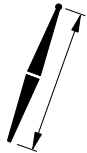
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110										110
115										115
120	63.3	279.2	50,400							120
125	61.5	276.5	47,400							125
130	59.6	273.5	44,700							130
135	57.7	270.4	42,200							135
140	55.7	267.0	39,900							140
145	53.7	263.3	37,700	57.7	267.0	33,600				145
150	51.7	259.4	35,700	55.7	263.6	31,800				150
155	49.6	255.2	33,800	53.7	259.9	30,000				155
160	47.4	250.6	32,100	51.6	256.0	28,400				160
165	45.1	245.6	30,500	49.5	251.8	26,900	53.5	255.5	23,500	165
170	42.7	240.3	28,900	47.3	247.2	25,500	51.5	251.5	22,200	170
175	40.2	234.4	27,500	45.0	242.2	24,200	49.3	247.2	20,900	175
180	37.6	228.0	26,100	42.7	236.9	22,900	47.1	242.6	19,800	180
185	34.8	221.0	24,800	40.2	231.0	21,700	44.9	237.6	18,700	185
190	31.8	213.1	23,600	37.6	224.6	20,600	42.5	232.2	17,600	190
195	28.5	204.2	22,400	34.8	217.5	19,500	40.0	226.3	16,600	195
200	24.8	193.8	21,300	31.7	209.6	18,500	37.3	219.9	15,600	200
205	20.4	181.2	20,200	28.4	200.6	17,500	34.5	212.7	14,600	205
210	14.7	164.4	19,100	24.7	190.2	16,600	31.5	204.7	13,600	210
215	3.0	128.6	18,000	20.3	177.6	15,600	28.1	195.7	12,700	215
220				14.6	160.7	14,700	24.3	185.1	11,800	220
225				1.7	121.1	13,700	19.9	172.2	10,900	225
230							14.0	154.7	10,000	230



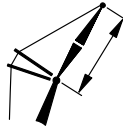
309,100 lb



360°



118.1 ft



196.9 ft

	86°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	lb	ft	
70	74.7	315.5	128,400							70
75	73.2	313.9	117,100							75
80	71.7	312.3	107,300							80
85	70.1	310.5	98,800							85
90	68.6	308.5	91,400	70.5	310.2	87,000				90
95	67.0	306.4	84,900	68.9	308.3	80,700				95
100	65.4	304.1	79,100	67.4	306.2	75,100				100
105	63.7	301.6	73,900	65.8	303.9	70,200	67.7	305.7	66,400	105
110	62.1	299.0	69,200	64.1	301.5	65,700	66.1	303.5	62,200	110
115	60.4	296.1	65,000	62.5	298.9	61,600	64.5	301.1	58,300	115
120	58.7	293.1	61,200	60.8	296.1	58,000	62.9	298.5	54,800	120
125	57.0	289.8	57,700	59.1	293.1	54,600	61.2	295.8	51,600	125
130	55.2	286.4	54,500	57.4	290.0	51,600	59.5	292.8	48,600	130
135	53.4	282.7	51,500	55.7	286.5	48,700	57.8	289.7	45,900	135
140	51.6	278.7	48,800	53.9	282.9	46,100	56.1	286.3	43,400	140
145	49.6	274.5	46,300	52.0	279.0	43,700	54.3	282.8	41,100	145
150	47.7	270.0	44,000	50.1	274.9	41,500	52.5	278.9	39,000	150
155	45.7	265.1	41,800	48.2	270.4	39,400	50.6	274.8	37,000	155
160	43.6	259.9	39,800	46.2	265.6	37,400	48.6	270.4	35,100	160
165	41.4	254.3	37,800	44.1	260.5	35,600	46.6	265.8	33,400	165
170	39.1	248.2	36,000	41.9	255.0	33,900	44.6	260.7	31,700	170
175	36.7	241.6	34,400	39.6	249.0	32,300	42.4	255.3	30,200	175
180	34.1	234.3	32,800	37.3	242.5	30,700	40.2	249.4	28,700	180
185	31.3	226.3	31,300	34.7	235.4	29,300	37.8	243.1	27,300	185
190	28.3	217.2	29,800	32.0	227.6	27,900	35.3	236.1	26,000	190
195	25.0	206.9	28,500	29.1	218.8	26,600	32.7	228.5	24,800	195
200	21.1	194.7	27,100	25.8	208.9	25,400	29.8	220.0	23,600	200
205	16.4	179.3	25,900	22.1	197.2	24,200	26.6	210.3	22,500	205
210	9.5	156.0	24,600	17.7	182.7	23,000	23.1	199.1	21,400	210
215				11.6	162.4	21,900	18.8	185.5	20,300	215
220							13.3	167.1	19,300	220
225										225
230										230
235										235
240										240

MLC300 S-1

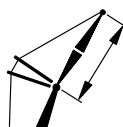
ASME B30.5



309,100 lb



118.1 ft



196.9 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110										110
115										115
120										120
125										125
130	62.9	296.2	43,800							130
135	61.3	293.4	41,300							135
140	59.6	290.5	39,000							140
145	57.9	287.4	36,900							145
150	56.1	284.0	34,900							150
155	54.3	280.4	33,000	57.8	284.0	29,100				155
160	52.5	276.6	31,300	56.1	280.6	27,500				160
165	50.6	272.5	29,700	54.3	277.0	26,100				165
170	48.7	268.1	28,200	52.5	273.2	24,700				170
175	46.7	263.5	26,700	50.6	269.1	23,300				175
180	44.6	258.4	25,400	48.7	264.7	22,100	52.3	268.7	18,800	180
185	42.5	253.0	24,100	46.7	260.1	20,900	50.4	264.6	17,600	185
190	40.3	247.2	22,900	44.6	255.0	19,800	48.5	260.2	16,400	190
195	37.9	240.8	21,700	42.4	249.6	18,700	46.5	255.5	15,400	195
200	35.4	233.9	20,700	40.2	243.7	17,700	44.4	250.4	14,300	200
205	32.8	226.3	19,600	37.9	237.4	16,800	42.3	245.0	13,400	205
210	29.9	217.8	18,600	35.4	230.5	15,900	40.0	239.1	12,400	210
215	26.7	208.2	17,700	32.7	222.8	15,000	37.6	232.7	11,500	215
220	23.2	197.0	16,700	29.8	214.3	14,000	35.1	225.7	10,700	220
225	19.0	183.5	15,800	26.7	204.7	13,100	32.5	218.0	9,800	225
230	13.5	165.4	15,000	23.1	193.5	12,200	29.6	209.4	9,100	230
235				18.9	179.9	11,400	26.4	199.6	8,300	235
240				13.4	161.6	10,500	22.8	188.3	7,500	240



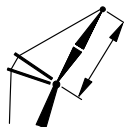
309,100 lb



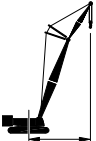
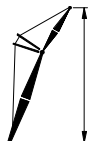
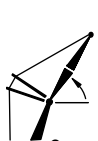
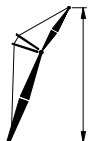
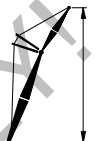
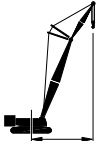
360°



118.1 ft



216.5 ft

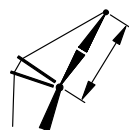
	 86°			 83°			 80°			
 ft	 °	 ft	 lb	 °	 ft	 lb	 °	 ft	 lb	 ft
75	74.8	334.5	105,800							75
80	73.4	333.0	105,100							80
85	72.0	331.4	97,800							85
90	70.6	329.6	90,400							90
95	69.2	327.7	83,900	70.9	329.4	79,600				95
100	67.7	325.7	78,100	69.5	327.5	74,000				100
105	66.3	323.5	72,900	68.1	325.5	69,100				105
110	64.8	321.1	68,200	66.7	323.3	64,600	68.4	324.9	61,000	110
115	63.4	318.6	64,000	65.2	321.0	60,600	67.0	322.8	57,200	115
120	61.9	315.9	60,200	63.7	318.5	56,900	65.5	320.5	53,700	120
125	60.3	313.1	56,700	62.2	315.9	53,600	64.1	318.1	50,500	125
130	58.8	310.1	53,500	60.7	313.1	50,500	62.6	315.5	47,500	130
135	57.2	306.8	50,600	59.2	310.1	47,700	61.1	312.7	44,800	135
140	55.6	303.4	47,900	57.6	306.9	45,100	59.5	309.8	42,300	140
145	54.0	299.8	45,300	56.0	303.6	42,700	58.0	306.7	40,000	145
150	52.3	295.9	43,000	54.4	300.0	40,500	56.4	303.4	37,900	150
155	50.6	291.9	40,800	52.7	296.2	38,400	54.8	299.8	35,900	155
160	48.9	287.5	38,800	51.0	292.2	36,400	53.1	296.1	34,100	160
165	47.0	282.9	36,900	49.3	287.9	34,600	51.4	292.1	32,300	165
170	45.2	277.9	35,100	47.5	283.3	32,900	49.7	287.9	30,700	170
175	43.3	272.7	33,400	45.7	278.5	31,300	47.9	283.4	29,100	175
180	41.3	267.0	31,900	43.7	273.3	29,800	46.1	278.6	27,700	180
185	39.2	260.9	30,400	41.8	267.7	28,300	44.2	273.5	26,300	185
190	37.0	254.4	29,000	39.7	261.8	27,000	42.2	268.0	25,000	190
195	34.7	247.3	27,600	37.6	255.3	25,700	40.2	262.2	23,800	195
200	32.3	239.5	26,300	35.3	248.4	24,500	38.1	255.9	22,600	200
205	29.6	230.9	25,100	32.9	240.8	23,300	35.8	249.0	21,500	205
210	26.8	221.3	24,000	30.3	232.4	22,200	33.5	241.6	20,500	210
215	23.6	210.3	22,800	27.5	223.0	21,200	30.9	233.4	19,500	215
220	19.9	197.2	21,800	24.4	212.4	20,100	28.2	224.3	18,500	220
225	15.3	180.7	20,700	20.8	199.9	19,100	25.1	214.0	17,600	225
230	8.4	155.2	19,700	16.5	184.5	18,200	21.7	202.1	16,700	230
235				10.5	162.5	17,200	17.6	187.5	15,800	235
240							12.2	167.7	14,900	240
245										245
250										250



309,100 lb

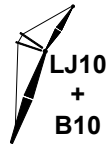


118.1 ft



216.5 ft

	75°			70°			
ft	ft	ft	lb	ft	lb	ft	ft
75							75
80							80
85							85
90							90
95							95
100							100
105							105
110							110
115							115
120							120
125							125
130							130
135							135
140	62.6	313.1	37,800				140
145	61.1	310.4	35,700				145
150	59.6	307.5	33,700				150
155	58.0	304.3	31,900				155
160	56.4	301.0	30,100				160
165	54.8	297.5	28,500	58.0	301.0	24,800	165
170	53.2	293.8	27,000	56.4	297.6	23,400	170
175	51.5	289.8	25,600	54.8	294.1	22,100	175
180	49.8	285.6	24,200	53.1	290.4	20,900	180
185	48.0	281.1	23,000	51.4	286.4	19,700	185
190	46.1	276.3	21,800	49.7	282.2	18,600	190
195	44.3	271.2	20,700	47.9	277.7	17,500	195
200	42.3	265.8	19,600	46.1	272.9	16,400	200
205	40.3	259.9	18,600	44.2	267.8	15,300	205
210	38.1	253.6	17,600	42.3	262.4	14,300	210
215	35.9	246.8	16,700	40.2	256.5	13,300	215
220	33.5	239.4	15,800	38.1	250.2	12,400	220
225	31.0	231.2	14,900	35.9	243.4	11,500	225
230	28.3	222.2	14,100	33.5	235.9	10,700	230
235	25.2	211.9	13,200	30.9	227.8	9,900	235
240	21.8	200.0	12,300	28.2	218.7	9,100	240
245	17.8	185.5	11,400	25.2	208.4	8,300	245
250	12.4	166.0	10,600	21.7	196.4	7,600	250



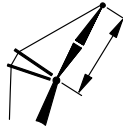
309,100 lb



360°

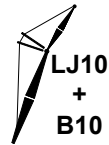


118.1 ft



236.2 ft

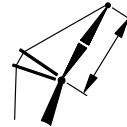
	86°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	ft	
80	74.8	353.5	87,300							80
85	73.5	352.1	86,500							85
90	72.3	350.5	85,700							90
95	71.0	348.7	83,000							95
100	69.7	346.9	77,200	71.3	348.5	73,100				100
105	68.4	344.9	72,000	70.0	346.6	68,200				105
110	67.1	342.8	67,400	68.7	344.7	63,700				110
115	65.7	340.5	63,200	67.4	342.6	59,700				115
120	64.4	338.1	59,300	66.1	340.4	56,000	67.7	342.1	52,700	120
125	63.0	335.6	55,800	64.7	338.0	52,700	66.4	339.9	49,500	125
130	61.7	332.9	52,700	63.4	335.5	49,600	65.1	337.6	46,600	130
135	60.3	330.0	49,700	62.0	332.9	46,800	63.7	335.1	43,900	135
140	58.9	327.0	47,000	60.6	330.0	44,200	62.3	332.5	41,400	140
145	57.4	323.8	44,500	59.2	327.1	41,800	60.9	329.7	39,100	145
150	55.9	320.4	42,200	57.8	323.9	39,600	59.5	326.7	37,000	150
155	54.5	316.9	40,000	56.3	320.6	37,500	58.1	323.6	35,000	155
160	52.9	313.1	38,000	54.8	317.1	35,500	56.7	320.4	33,100	160
165	51.4	309.1	36,100	53.3	313.4	33,700	55.2	316.9	31,400	165
170	49.8	304.9	34,300	51.8	309.4	32,000	53.7	313.2	29,800	170
175	48.2	300.5	32,600	50.2	305.3	30,400	52.1	309.3	28,200	175
180	46.5	295.8	31,000	48.6	300.9	28,900	50.6	305.2	26,800	180
185	44.8	290.8	29,600	46.9	296.2	27,500	49.0	300.9	25,400	185
190	43.0	285.4	28,100	45.2	291.3	26,100	47.3	296.3	24,100	190
195	41.2	279.8	26,800	43.5	286.1	24,900	45.6	291.5	22,900	195
200	39.3	273.7	25,600	41.6	280.5	23,700	43.9	286.3	21,800	200
205	37.3	267.2	24,400	39.8	274.5	22,500	42.1	280.8	20,700	205
210	35.2	260.2	23,200	37.8	268.1	21,400	40.2	274.9	19,600	210
215	33.0	252.7	22,100	35.7	261.3	20,400	38.3	268.7	18,600	215
220	30.7	244.4	21,100	33.6	253.9	19,400	36.2	261.9	17,700	220
225	28.1	235.3	20,100	31.3	245.8	18,400	34.1	254.6	16,800	225
230	25.4	225.0	19,100	28.8	236.9	17,500	31.8	246.7	15,900	230
235	22.3	213.4	18,200	26.1	227.0	16,600	29.4	238.0	15,100	235
240	18.7	199.5	17,300	23.1	215.7	15,800	26.7	228.4	14,200	240
245	14.3	181.8	16,400	19.7	202.4	14,900	23.8	217.4	13,500	245
250	7.4	153.9	15,500	15.5	186.0	14,100	20.5	204.7	12,700	250
255				9.6	162.1	13,300	16.6	189.2	11,800	255
260							11.3	168.0	11,000	260
265										265



309,100 lb

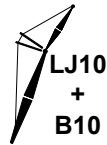


118.1 ft



236.2 ft

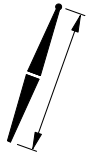
	75°			70°			
ft	ft	ft	lb	ft	lb	ft	ft
80							80
85							85
90							90
95							95
100							100
105							105
110							110
115							115
120							120
125							125
130							130
135							135
140							140
145	63.7	332.7	34,700				145
150	62.4	330.1	32,700				150
155	61.0	327.3	30,900				155
160	59.6	324.4	29,100				160
165	58.1	321.3	27,500				165
170	56.7	318.0	26,000				170
175	55.2	314.6	24,600	58.1	317.9	21,000	175
180	53.7	310.9	23,300	56.7	314.6	19,600	180
185	52.2	307.0	22,000	55.2	311.2	18,400	185
190	50.6	302.9	20,800	53.7	307.5	17,200	190
195	49.0	298.6	19,700	52.2	303.6	16,000	195
200	47.4	294.0	18,700	50.6	299.5	14,900	200
205	45.7	289.2	17,600	49.0	295.2	13,900	205
210	43.9	284.0	16,700	47.3	290.6	12,900	210
215	42.1	278.5	15,600	45.6	285.8	11,900	215
220	40.3	272.7	14,700	43.9	280.6	11,000	220
225	38.3	266.4	13,700	42.1	275.1	10,200	225
230	36.3	259.7	12,800	40.2	269.2	9,300	230
235	34.2	252.4	11,900	38.3	263.0	8,600	235
240	31.9	244.5	11,100	36.3	256.2	7,800	240
245	29.5	235.9	10,300	34.1	249.0	7,100	245
250	26.8	226.2	9,500				250
255	23.9	215.4	8,700				255
260	20.6	202.7	8,000				260
265	16.7	187.3	7,200				265



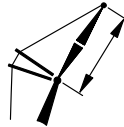
309,100 lb



360°



118.1 ft

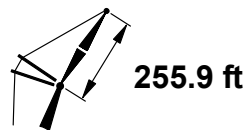


255.9 ft

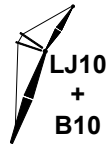
	86°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	lb	ft	
85	74.9	372.6	72,600							85
90	73.7	371.1	71,800							90
95	72.5	369.5	71,000							95
100	71.3	367.8	70,200							100
105	70.1	366.0	69,400	71.6	367.6	67,100				105
110	68.9	364.1	66,400	70.4	365.8	62,600				110
115	67.7	362.1	62,200	69.2	363.9	58,600				115
120	66.5	359.9	58,300	68.0	361.9	54,900				120
125	65.3	357.6	54,800	66.8	359.7	51,600	68.3	361.3	48,300	125
130	64.0	355.1	51,600	65.6	357.4	48,500	67.1	359.2	45,400	130
135	62.8	352.6	48,700	64.3	355.0	45,700	65.9	357.0	42,700	135
140	61.5	349.9	46,000	63.1	352.5	43,100	64.6	354.6	40,300	140
145	60.2	347.0	43,500	61.8	349.8	40,700	63.4	352.1	38,000	145
150	58.9	344.0	41,200	60.5	347.0	38,500	62.1	349.4	35,800	150
155	57.6	340.8	39,000	59.2	344.0	36,400	60.8	346.6	33,900	155
160	56.2	337.5	37,000	57.9	340.9	34,500	59.5	343.7	32,000	160
165	54.9	333.9	35,100	56.6	337.6	32,700	58.2	340.6	30,300	165
170	53.5	330.3	33,300	55.2	334.1	31,000	56.9	337.3	28,700	170
175	52.0	326.4	31,600	53.8	330.5	29,400	55.5	333.9	27,100	175
180	50.6	322.3	30,100	52.4	326.6	27,900	54.1	330.3	25,700	180
185	49.1	318.0	28,600	51.0	322.6	26,500	52.7	326.5	24,400	185
190	47.6	313.4	27,200	49.5	318.3	25,100	51.3	322.5	23,100	190
195	46.1	308.6	25,900	48.0	313.8	23,900	49.8	318.3	21,900	195
200	44.5	303.6	24,600	46.4	309.1	22,600	48.3	313.9	20,700	200
205	42.8	298.2	23,400	44.9	304.1	21,500	46.8	309.2	19,600	205
210	41.1	292.5	22,300	43.2	298.8	20,400	45.2	304.3	18,600	210
215	39.4	286.5	21,200	41.6	293.2	19,400	43.6	299.1	17,600	215
220	37.5	280.0	20,100	39.8	287.3	18,400	42.0	293.5	16,600	220
225	35.6	273.1	19,200	38.0	280.9	17,400	40.2	287.7	15,700	225
230	33.6	265.7	18,200	36.1	274.2	16,500	38.4	281.4	14,800	230
235	31.5	257.7	17,300	34.1	266.9	15,700	36.6	274.8	13,900	235
240	29.3	249.0	16,400	32.1	259.0	14,800	34.6	267.6	13,000	240
245	26.8	239.3	15,600	29.8	250.5	14,000	32.6	259.9	12,100	245
250	24.2	228.5	14,800	27.5	241.1	13,300	30.4	251.5	11,300	250
255	21.2	216.2	14,000	24.9	230.6	12,400	28.0	242.3	10,500	255
260	17.7	201.5	13,200	22.0	218.7	11,600	25.5	232.1	9,700	260
265	13.4	182.8	12,500	18.6	204.7	10,800	22.7	220.6	8,900	265
270	6.4	152.1	11,700	14.6	187.2	10,000	19.5	207.2	8,200	270
275				8.7	161.5	9,200	15.6	190.7	7,400	275



309,100 lb



	75°		
	ft	ft	lb
85			
90			
95			
100			
105			
110			
115			
120			
125			
130			
135			
140			
145			
150			
155	63.4	349.7	29,600
160	62.1	347.1	27,900
165	60.9	344.3	26,300
170	59.6	341.4	24,800
175	58.3	338.3	23,400
180	56.9	335.0	22,100
185	55.6	331.6	20,900
190	54.2	328.0	19,700
195	52.8	324.2	18,400
200	51.3	320.2	17,200
205	49.9	316.0	16,100
210	48.4	311.6	15,000
215	46.9	306.9	14,000
220	45.3	302.0	13,000
225	43.7	296.8	12,100
230	42.0	291.3	11,200
235	40.3	285.4	10,400
240	38.5	279.2	9,500
245	36.6	272.5	8,700
250	34.7	265.4	8,000
255	32.6	257.7	7,200
260			
265			
270			
275			



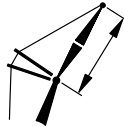
309,100 lb



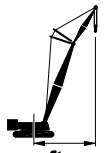
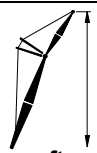
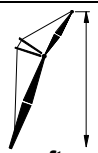
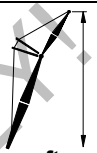
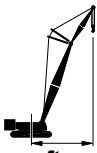
360°



118.1 ft

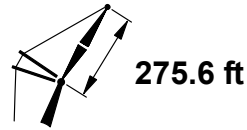
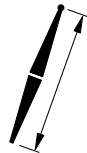


275.6 ft

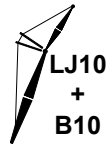
	 86°			 83°			 80°			
										
ft		ft	lb		ft	lb		ft	lb	ft
90	74.9	391.6	59,500							90
95	73.8	390.2	58,800							95
100	72.7	388.6	58,000							100
105	71.6	386.9	57,300							105
110	70.5	385.2	56,500	71.9	386.7	56,500				110
115	69.4	383.3	55,800	70.8	384.9	55,900				115
120	68.3	381.3	55,100	69.7	383.1	54,000				120
125	67.2	379.2	54,000	68.6	381.1	50,700				125
130	66.0	377.0	50,800	67.4	379.0	47,700	68.8	380.5	44,500	130
135	64.9	374.6	47,900	66.3	376.8	44,900	67.7	378.5	41,800	135
140	63.7	372.1	45,200	65.1	374.5	42,300	66.6	376.3	39,400	140
145	62.5	369.5	42,700	64.0	372.1	39,900	65.4	374.0	37,100	145
150	61.4	366.8	40,300	62.8	369.5	37,600	64.3	371.6	34,900	150
155	60.2	363.9	38,200	61.6	366.8	35,600	63.1	369.1	33,000	155
160	58.9	360.9	36,200	60.4	364.0	33,600	61.9	366.4	31,100	160
165	57.7	357.8	34,300	59.2	361.0	31,800	60.7	363.6	29,400	165
170	56.5	354.5	32,500	58.0	357.9	30,100	59.5	360.7	27,800	170
175	55.2	351.0	30,800	56.8	354.6	28,500	58.3	357.6	26,300	175
180	53.9	347.4	29,300	55.5	351.2	27,000	57.1	354.3	24,800	180
185	52.6	343.5	27,800	54.2	347.6	25,600	55.8	350.9	23,500	185
190	51.3	339.5	26,400	52.9	343.8	24,300	54.5	347.4	22,200	190
195	49.9	335.4	25,100	51.6	339.8	23,000	53.2	343.7	21,000	195
200	48.5	331.0	23,800	50.3	335.7	21,800	51.9	339.8	19,900	200
205	47.1	326.3	22,600	48.9	331.3	20,700	50.6	335.7	18,800	205
210	45.7	321.5	21,500	47.5	326.8	19,600	49.2	331.4	17,700	210
215	44.2	316.3	20,400	46.0	322.0	18,600	47.8	326.8	16,600	215
220	42.7	311.0	19,400	44.5	316.9	17,600	46.4	322.1	15,600	220
225	41.1	305.3	18,400	43.0	311.6	16,700	44.9	317.1	14,600	225
230	39.4	299.2	17,500	41.5	306.0	15,800	43.4	311.8	13,600	230
235	37.8	292.8	16,600	39.9	300.0	14,800	41.8	306.3	12,700	235
240	36.0	286.0	15,700	38.2	293.7	13,900	40.2	300.4	11,800	240
245	34.2	278.7	14,900	36.4	287.0	13,000	38.6	294.2	10,900	245
250	32.2	270.9	14,100	34.6	279.9	12,100	36.9	287.6	10,100	250
255	30.2	262.5	13,300	32.7	272.2	11,300	35.1	280.6	9,300	255
260	28.0	253.3	12,500	30.7	263.9	10,500	33.2	273.0	8,500	260
265	25.7	243.1	11,600	28.6	254.9	9,700	31.2	264.9	7,800	265
270	23.1	231.8	10,800	26.3	245.0	9,000	29.1	256.1	7,100	270
275	20.2	218.8	10,100	23.7	234.0	8,200				275
280	16.8	203.4	9,300	20.9	221.5	7,500				280
285	12.6	183.4	8,600							285
290	5.4	149.6	7,800							290



309,100 lb



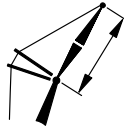
	75°		
	ft	ft	lb
90			
95			
100			
105			
110			
115			
120			
125			
130			
135			
140			
145			
150			
155			
160			
165	63.1	366.7	25,400
170	62.0	364.1	23,900
175	60.8	361.3	22,400
180	59.6	358.3	21,000
185	58.3	355.2	19,600
190	57.1	352.0	18,300
195	55.8	348.6	17,000
200	54.6	345.1	15,900
205	53.3	341.3	14,800
210	52.0	337.4	13,700
215	50.6	333.3	12,700
220	49.2	329.1	11,700
225	47.8	324.5	10,800
230	46.4	319.8	9,900
235	44.9	314.8	9,100
240	43.4	309.6	8,300
245	41.9	304.0	7,500
250			
255			
260			
265			
270			
275			
280			
285			
290			



309,100 lb



137.8 ft



78.7 ft

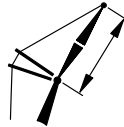
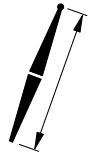
	86°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
40	74.9	221.2	285,300 d							40
45	71.0	219.5	241,000 c							45
50	67.1	217.4	208,100 b							50
55	63.0	214.8	182,700 b	68.9	217.6	174,500 c				55
60	58.8	211.8	162,600	64.9	215.2	155,200 b				60
65	54.3	208.2	146,200	60.7	212.4	139,500	66.7	215.1	132,800 b	65
70	49.5	204.0	132,500	56.3	209.1	126,500	62.6	212.5	120,400 b	70
75	44.4	199.0	121,000	51.7	205.2	115,400	58.3	209.5	109,900	75
80	38.7	192.9	111,100	46.8	200.6	106,000	53.8	205.8	100,900	80
85	32.0	185.3	102,400	41.3	195.0	97,800	49.0	201.5	93,100	85
90	23.7	175.0	94,800	35.2	188.2	90,600	43.8	196.4	86,300	90
95	8.8	155.2	87,800	27.8	179.3	84,200	38.0	190.2	80,200	95
100				17.4	165.9	78,300	31.2	182.4	74,800	100
105							22.6	171.6	69,800	105
110										110
115										115
120										120
125										125
130										130
135										135
140										140

MLC300 S-1

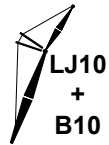
ASME B30.5



309,100 lb



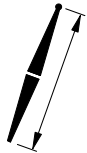
	75°			70°			65°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85	59.9	207.8	85,200							85
90	55.5	204.4	78,900							90
95	50.8	200.4	73,400							95
100	45.7	195.6	68,400	56.8	201.7	62,000				100
105	40.2	189.8	64,000	52.3	197.9	58,000				105
110	33.8	182.7	59,900	47.3	193.3	54,300				110
115	26.1	173.2	56,200	42.0	187.9	51,000	53.3	194.0	45,700	115
120	14.4	158.0	52,600	35.9	181.2	47,900	48.5	189.6	43,000	120
125				28.7	172.6	45,100	43.3	184.4	40,400	125
130				18.8	160.1	42,300	37.4	178.1	38,000	130
135							30.5	170.1	35,800	135
140							21.5	158.8	33,700	140



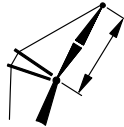
309,100 lb



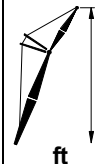
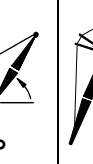
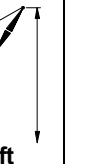
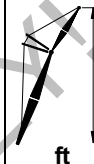
360°

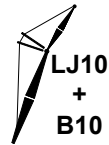


137.8 ft

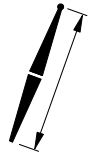


98.4 ft

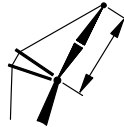
	86°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
45	75.0	240.3	240,300 c							45
50	71.9	238.6	207,400 b							50
55	68.8	236.7	182,100 b							55
60	65.6	234.4	162,000	70.2	236.8	154,300 b				60
65	62.3	231.8	145,600	67.0	234.7	138,700				65
70	58.9	228.8	132,000	63.8	232.2	125,700	68.4	234.5	119,400 b	70
75	55.4	225.3	120,500	60.5	229.4	114,700	65.2	232.2	108,900	75
80	51.7	221.4	110,700	57.0	226.1	105,300	61.9	229.5	100,000	80
85	47.8	216.9	102,200	53.4	222.4	97,200	58.5	226.4	92,200	85
90	43.6	211.8	94,800	49.6	218.2	90,100	55.0	222.9	85,500	90
95	39.0	205.7	88,200	45.5	213.4	83,900	51.3	219.0	79,500	95
100	33.9	198.5	82,300	41.1	207.8	78,300	47.3	214.4	74,200	100
105	28.0	189.6	77,000	36.3	201.1	73,300	43.1	209.2	69,400	105
110	20.4	177.6	72,200	30.8	193.1	68,700	38.5	203.0	65,100	110
115	5.5	152.5	67,500	24.1	182.8	64,600	33.3	195.7	61,200	115
120				14.5	167.1	60,600	27.2	186.5	57,600	120
125							19.4	173.9	54,300	125
130										130
135										135
140										140
145										145
150										150
155										155
160										160



309,100 lb

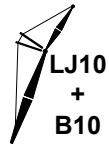


137.8 ft



98.4 ft

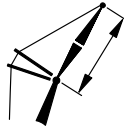
	75°			70°			65°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90	63.2	227.7	77,800							90
95	59.8	224.8	72,300							95
100	56.3	221.5	67,400							100
105	52.6	217.7	63,100							105
110	48.8	213.3	59,100	57.4	218.7	53,200				110
115	44.7	208.4	55,600	53.8	215.1	49,900				115
120	40.2	202.6	52,300	50.0	210.9	46,900				120
125	35.3	195.7	49,300	46.0	206.1	44,200				125
130	29.6	187.3	46,500	41.6	200.6	41,700	50.9	207.1	36,900	130
135	22.6	176.3	43,900	36.9	194.1	39,400	46.9	202.5	34,900	135
140	11.6	158.2	41,300	31.5	186.3	37,200	42.7	197.2	32,900	140
145				24.9	176.3	35,100	38.0	190.9	31,100	145
150				15.9	161.6	33,100	32.8	183.4	29,400	150
155							26.6	174.1	27,700	155
160							18.4	160.9	26,100	160



309,100 lb



137.8 ft

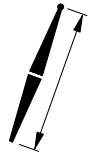


118.1 ft

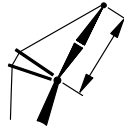
	86°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
55	72.5	257.7	181,500 b							55
60	69.9	255.9	161,400							60
65	67.3	253.8	145,100	71.1	256.0	138,000				65
70	64.6	251.4	131,500	68.5	254.0	125,000				70
75	61.8	248.7	120,000	65.8	251.7	114,100				75
80	59.0	245.7	110,300	63.1	249.2	104,700	67.0	251.6	99,200	80
85	56.1	242.4	101,800	60.3	246.3	96,700	64.3	249.2	91,500	85
90	53.1	238.7	94,400	57.4	243.1	89,600	61.5	246.4	84,800	90
95	49.9	234.5	87,900	54.4	239.6	83,400	58.7	243.4	78,900	95
100	46.6	229.8	82,100	51.3	235.6	77,800	55.8	240.0	73,600	100
105	43.0	224.5	76,900	48.1	231.2	72,900	52.7	236.2	68,900	105
110	39.3	218.5	72,200	44.7	226.2	68,400	49.5	232.0	64,600	110
115	35.1	211.6	67,900	41.0	220.5	64,400	46.2	227.2	60,800	115
120	30.5	203.4	64,000	37.0	214.0	60,700	42.6	221.9	57,300	120
125	25.0	193.3	60,500	32.6	206.5	57,300	38.8	215.8	54,100	125
130	17.9	179.6	57,100	27.6	197.3	54,200	34.6	208.7	51,100	130
135				21.4	185.6	51,200	29.9	200.4	48,400	135
140				12.3	167.6	48,400	24.3	190.0	45,800	140
145							17.0	175.7	43,400	145
150										150
155										155
160										160
165										165
170										170
175										175
180										180



309,100 lb

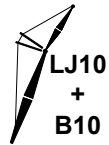


137.8 ft



118.1 ft

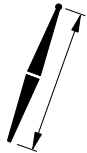
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100	62.5	244.7	66,600							100
105	59.7	241.7	62,300							105
110	56.8	238.5	58,400							110
115	53.8	234.9	54,900							115
120	50.7	230.8	51,700	57.7	235.7	46,100				120
125	47.4	226.2	48,700	54.8	232.2	43,400				125
130	44.0	221.1	46,000	51.7	228.3	41,000				130
135	40.2	215.3	43,500	48.5	223.9	38,700				135
140	36.2	208.6	41,200	45.1	218.9	36,600	52.4	224.4	32,100	140
145	31.7	200.8	39,000	41.4	213.4	34,600	49.2	220.1	30,300	145
150	26.5	191.3	37,000	37.5	207.0	32,800	45.9	215.3	28,700	150
155	20.0	178.8	35,100	33.1	199.5	31,100	42.3	209.9	27,100	155
160	9.4	157.7	33,100	28.2	190.6	29,500	38.4	203.7	25,700	160
165				22.2	179.3	27,900	34.2	196.6	24,300	165
170				13.7	162.5	26,400	29.4	188.1	23,000	170
175							23.7	177.4	21,700	175
180							16.1	162.5	20,500	180



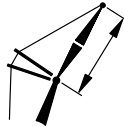
309,100 lb



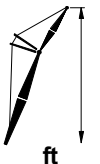
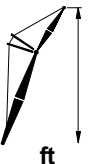
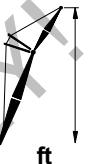
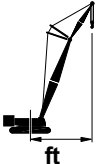
360°



137.8 ft



137.8 ft

	86°			83°			80°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
60	72.9	276.8	160,600							60
65	70.7	275.1	144,200							65
70	68.5	273.1	130,600	71.7	275.1	124,000				70
75	66.2	270.9	119,200	69.5	273.2	113,000				75
80	63.9	268.4	109,400	67.2	271.1	103,700				80
85	61.5	265.7	101,000	64.9	268.7	95,700	68.2	270.9	90,400	85
90	59.1	262.7	93,600	62.6	266.1	88,600	65.9	268.6	83,700	90
95	56.6	259.4	87,100	60.2	263.3	82,400	63.6	266.1	77,800	95
100	54.0	255.8	81,300	57.7	260.1	76,900	61.2	263.4	72,500	100
105	51.4	251.8	76,100	55.2	256.7	72,000	58.8	260.4	67,900	105
110	48.6	247.4	71,400	52.6	252.9	67,500	56.3	257.0	63,600	110
115	45.7	242.6	67,200	49.9	248.7	63,500	53.7	253.4	59,800	115
120	42.7	237.3	63,400	47.0	244.0	59,900	51.1	249.4	56,300	120
125	39.4	231.3	59,900	44.1	238.9	56,500	48.3	244.9	53,200	125
130	35.9	224.5	56,700	40.9	233.2	53,500	45.4	240.1	50,300	130
135	32.1	216.8	53,700	37.5	226.9	50,600	42.3	234.6	47,600	135
140	27.8	207.6	50,900	33.9	219.6	48,000	39.0	228.6	45,100	140
145	22.7	196.4	48,300	29.8	211.1	45,600	35.5	221.7	42,800	145
150	16.0	181.2	45,900	25.1	201.0	43,300	31.6	213.8	40,600	150
155				19.3	188.0	41,100	27.2	204.5	38,600	155
160				10.5	167.5	39,000	22.0	193.0	36,600	160
165							15.1	177.0	34,800	165
170										170
175										175
180										180
185										185
190										190
195										195
200										200

MLC300 S-1

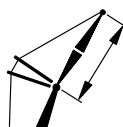
ASME B30.5



309,100 lb

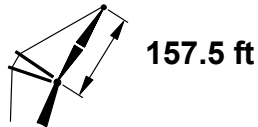
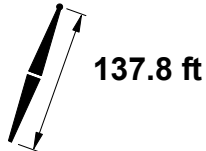
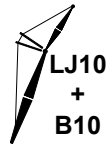


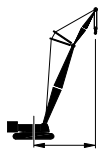
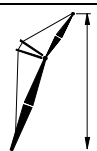
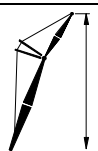
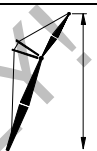
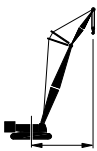
137.8 ft



137.8 ft

	75°			70°			65°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110	62.1	261.6	57,200							110
115	59.7	258.7	53,700							115
120	57.2	255.5	50,500							120
125	54.7	252.0	47,600							125
130	52.0	248.1	44,900	58.0	252.7	39,700				130
135	49.3	243.8	42,500	55.5	249.3	37,500				135
140	46.5	239.1	40,200	52.9	245.5	35,400				140
145	43.5	233.9	38,100	50.2	241.3	33,500				145
150	40.3	228.1	36,100	47.4	236.8	31,700	53.5	241.6	27,400	150
155	36.8	221.5	34,300	44.4	231.7	30,000	50.8	237.5	25,900	155
160	33.1	214.0	32,600	41.3	226.1	28,500	48.0	233.1	24,400	160
165	28.9	205.3	30,900	37.9	219.8	27,000	45.1	228.1	23,100	165
170	24.1	194.8	29,400	34.3	212.6	25,600	42.0	222.6	21,900	170
175	17.9	180.9	27,900	30.3	204.3	24,300	38.7	216.5	20,700	175
180	7.5	156.4	26,300	25.7	194.4	23,000	35.2	209.6	19,600	180
185				20.0	181.8	21,800	31.2	201.6	18,500	185
190				11.8	162.9	20,600	26.8	192.1	17,500	190
195							21.5	180.3	16,500	195
200							14.2	163.6	15,400	200



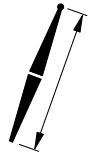
	 86°			 83°			 80°			
 ft	 ft	 ft	 lb	 ft	 ft	 lb	 ft	 ft	 lb	 ft
65	73.2	295.9	143,100							65
70	71.3	294.2	129,600							70
75	69.3	292.3	118,100							75
80	67.4	290.2	108,300	70.2	292.4	102,500				80
85	65.4	287.9	99,900	68.2	290.4	94,500				85
90	63.3	285.4	92,500	66.3	288.2	87,400				90
95	61.2	282.7	86,000	64.2	285.7	81,200	67.1	288.0	76,500	95
100	59.1	279.7	80,200	62.2	283.1	75,700	65.1	285.7	71,200	100
105	57.0	276.4	75,000	60.1	280.2	70,800	63.1	283.1	66,600	105
110	54.7	272.9	70,400	57.9	277.1	66,400	61.0	280.3	62,400	110
115	52.4	269.1	66,200	55.7	273.7	62,400	58.9	277.3	58,600	115
120	50.1	264.9	62,400	53.5	270.0	58,700	56.7	274.1	55,100	120
125	47.6	260.4	58,900	51.1	266.0	55,400	54.5	270.5	51,900	125
130	45.1	255.4	55,700	48.7	261.7	52,400	52.2	266.6	49,100	130
135	42.4	250.0	52,700	46.2	256.9	49,600	49.8	262.4	46,400	135
140	39.5	244.0	50,000	43.6	251.7	47,000	47.3	257.9	43,900	140
145	36.5	237.4	47,500	40.8	246.0	44,500	44.8	252.9	41,600	145
150	33.3	229.9	45,100	37.9	239.7	42,300	42.1	247.4	39,500	150
155	29.7	221.4	42,900	34.8	232.6	40,200	39.2	241.3	37,500	155
160	25.6	211.4	40,800	31.3	224.6	38,200	36.2	234.6	35,700	160
165	20.8	199.2	38,800	27.5	215.3	36,400	32.9	227.1	33,900	165
170	14.4	182.3	36,900	23.1	204.3	34,600	29.2	218.4	32,300	170
175				17.6	190.0	32,900	25.1	208.2	30,700	175
180				9.0	166.9	31,300	20.2	195.6	29,200	180
185							13.5	177.9	27,700	185
190										190
195										195
200										200
205										205
210										210
215										215
220										220

MLC300 S-1

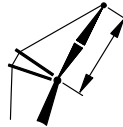
ASME B30.5



309,100 lb

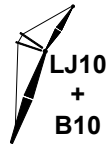


137.8 ft



157.5 ft

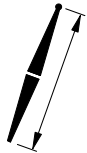
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110										110
115	63.8	281.3	52,300							115
120	61.8	278.6	49,100							120
125	59.7	275.7	46,200							125
130	57.5	272.5	43,600							130
135	55.3	269.0	41,100							135
140	53.0	265.3	38,900	58.2	269.7	34,000				140
145	50.7	261.2	36,800	56.0	266.3	32,100				145
150	48.3	256.8	34,900	53.7	262.6	30,300				150
155	45.7	251.9	33,100	51.4	258.7	28,700				155
160	43.1	246.6	31,400	49.0	254.3	27,100				160
165	40.3	240.8	29,800	46.5	249.6	25,700	52.0	254.8	21,700	165
170	37.3	234.4	28,300	43.9	244.5	24,300	49.6	250.6	20,500	170
175	34.1	227.1	26,800	41.2	238.8	23,000	47.1	246.0	19,200	175
180	30.6	218.9	25,500	38.2	232.6	21,800	44.5	240.9	18,000	180
185	26.7	209.4	24,200	35.1	225.6	20,700	41.8	235.4	16,900	185
190	22.1	197.8	23,000	31.7	217.7	19,600	38.9	229.3	15,800	190
195	16.3	182.5	21,800	27.9	208.6	18,500	35.9	222.5	14,800	195
200	5.7	154.1	20,500	23.6	197.8	17,500	32.5	214.8	13,800	200
205				18.3	184.0	16,500	28.9	206.1	12,800	205
210				10.3	162.8	15,500	24.7	195.7	11,900	210
215							19.6	182.8	11,000	215
220							12.6	164.2	10,000	220



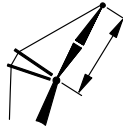
309,100 lb



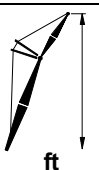
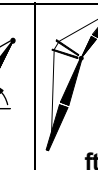
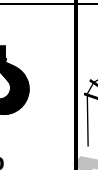
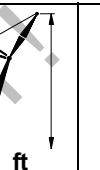
360°



137.8 ft

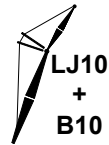


177.2 ft

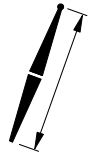
	86°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
70	73.4	315.0	128,600							70
75	71.7	313.3	117,100							75
80	70.0	311.5	107,400							80
85	68.3	309.5	98,900	70.8	311.5	93,300				85
90	66.5	307.3	91,500	69.0	309.6	86,300				90
95	64.7	304.9	85,000	67.3	307.5	80,100				95
100	62.9	302.4	79,200	65.5	305.2	74,600	68.1	307.3	70,100	100
105	61.0	299.6	74,100	63.7	302.7	69,700	66.3	305.1	65,400	105
110	59.2	296.6	69,400	61.9	300.1	65,300	64.5	302.7	61,200	110
115	57.2	293.4	65,300	60.0	297.2	61,300	62.7	300.1	57,400	115
120	55.3	290.0	61,400	58.1	294.1	57,700	60.8	297.3	54,000	120
125	53.3	286.2	58,000	56.2	290.7	54,400	59.0	294.3	50,800	125
130	51.2	282.2	54,800	54.2	287.1	51,400	57.0	291.1	48,000	130
135	49.1	277.9	51,800	52.1	283.3	48,600	55.1	287.6	45,300	135
140	46.8	273.3	49,100	50.0	279.1	46,000	53.0	283.8	42,900	140
145	44.5	268.2	46,600	47.8	274.6	43,600	51.0	279.8	40,600	145
150	42.2	262.8	44,300	45.6	269.7	41,400	48.8	275.4	38,500	150
155	39.6	256.8	42,100	43.2	264.5	39,300	46.6	270.7	36,500	155
160	37.0	250.2	40,000	40.8	258.7	37,400	44.3	265.6	34,700	160
165	34.1	243.0	38,100	38.2	252.5	35,500	41.9	260.1	32,900	165
170	31.0	234.9	36,300	35.4	245.6	33,800	39.3	254.1	31,300	170
175	27.7	225.7	34,600	32.5	237.9	32,200	36.7	247.5	29,800	175
180	23.8	214.8	33,000	29.2	229.2	30,700	33.8	240.2	28,400	180
185	19.2	201.5	31,500	25.6	219.1	29,200	30.7	232.0	27,000	185
190	13.0	183.1	29,900	21.4	207.1	27,800	27.2	222.6	25,700	190
195				16.1	191.6	26,500	23.3	211.5	24,400	195
200				7.6	165.6	25,100	18.6	197.8	23,200	200
205							12.1	178.4	22,000	205
210										210
215										215
220										220
225										225
230										230

MLC300 S-1

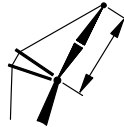
ASME B30.5



309,100 lb

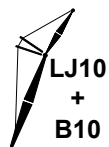


137.8 ft



177.2 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110										110
115										115
120										120
125	63.4	298.3	45,000							125
130	61.5	295.5	42,300							130
135	59.6	292.6	39,900							135
140	57.7	289.5	37,700							140
145	55.8	286.1	35,600							145
150	53.8	282.4	33,700	58.3	286.6	29,000				150
155	51.7	278.5	31,900	56.4	283.3	27,400				155
160	49.6	274.3	30,200	54.4	279.7	25,900				160
165	47.4	269.7	28,700	52.4	275.9	24,400				165
170	45.1	264.7	27,200	50.3	271.8	23,100				170
175	42.8	259.4	25,800	48.1	267.3	21,800	52.8	272.0	17,300	175
180	40.3	253.6	24,500	45.8	262.5	20,700	50.8	267.9	16,100	180
185	37.7	247.2	23,200	43.5	257.3	19,500	48.6	263.6	15,000	185
190	34.9	240.1	22,100	41.1	251.6	18,500	46.4	258.8	14,000	190
195	31.9	232.3	20,900	38.5	245.4	17,400	44.1	253.7	13,000	195
200	28.6	223.3	19,900	35.7	238.5	16,400	41.6	248.1	12,000	200
205	24.8	213.0	18,800	32.8	231.0	15,300	39.1	242.1	11,100	205
210	20.5	200.4	17,800	29.6	222.4	14,400	36.4	235.4	10,300	210
215	14.8	183.8	16,800	26.0	212.5	13,400	33.5	228.0	9,400	215
220	3.7	149.8	15,800	21.9	200.8	12,500	30.4	219.7	8,600	220
225				16.8	185.8	11,600	26.9	210.1	7,800	225
230				9.0	162.2	10,600	22.9	198.9	7,100	230



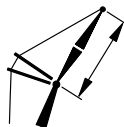
309,100 lb



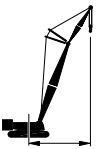
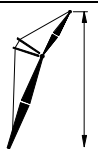
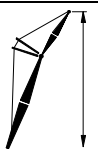
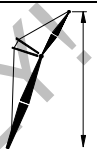
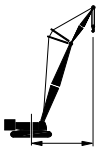
360°



137.8 ft



196.9 ft

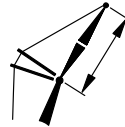
	 86°			 83°			 80°			
 ft		 ft	 lb		 ft	 lb		 ft	 lb	 ft
75	73.6	334.0	116,400							75
80	72.1	332.4	106,600							80
85	70.5	330.6	98,200							85
90	69.0	328.7	90,800	71.2	330.6	85,500				90
95	67.4	326.6	84,300	69.7	328.8	79,300				95
100	65.8	324.4	78,500	68.1	326.8	73,800				100
105	64.2	321.9	73,400	66.5	324.6	68,900	68.8	326.5	64,500	105
110	62.6	319.3	68,700	64.9	322.2	64,500	67.2	324.4	60,400	110
115	60.9	316.6	64,600	63.3	319.7	60,600	65.6	322.1	56,600	115
120	59.2	313.6	60,800	61.6	317.0	56,900	64.0	319.7	53,100	120
125	57.5	310.4	57,300	60.0	314.1	53,600	62.4	317.1	50,000	125
130	55.7	307.0	54,100	58.3	311.1	50,600	60.7	314.3	47,100	130
135	53.9	303.4	51,200	56.5	307.7	47,800	59.0	311.3	44,500	135
140	52.1	299.5	48,500	54.7	304.2	45,300	57.3	308.0	42,100	140
145	50.2	295.3	46,000	52.9	300.5	42,900	55.5	304.6	39,800	145
150	48.2	290.9	43,600	51.0	296.4	40,700	53.7	301.0	37,700	150
155	46.2	286.1	41,500	49.1	292.1	38,600	51.9	297.0	35,800	155
160	44.1	281.0	39,400	47.1	287.5	36,700	50.0	292.9	33,900	160
165	42.0	275.5	37,500	45.1	282.5	34,900	48.0	288.4	32,200	165
170	39.7	269.5	35,800	43.0	277.2	33,200	46.0	283.6	30,600	170
175	37.3	263.1	34,100	40.7	271.5	31,600	43.9	278.4	29,100	175
180	34.8	256.0	32,500	38.4	265.2	30,100	41.7	272.9	27,700	180
185	32.1	248.2	31,000	36.0	258.5	28,700	39.5	266.9	26,300	185
190	29.2	239.5	29,600	33.3	251.0	27,300	37.1	260.3	25,100	190
195	25.9	229.5	28,200	30.5	242.7	26,000	34.5	253.2	23,800	195
200	22.3	217.9	26,900	27.4	233.4	24,800	31.8	245.3	22,700	200
205	17.8	203.6	25,700	24.0	222.6	23,600	28.8	236.4	21,600	205
210	11.8	183.6	24,400	20.0	209.7	22,500	25.6	226.4	20,500	210
215				14.9	192.9	21,400	21.8	214.5	19,500	215
220				6.2	163.7	20,300	17.3	199.8	18,500	220
225							11.0	178.6	17,500	225
230										230
235										235
240										240
245										245



309,100 lb

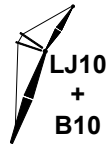


137.8 ft



196.9 ft

	75°			70°			
ft	ft	ft	lb	ft	lb	ft	ft
75							75
80							80
85							85
90							90
95							95
100							100
105							105
110							110
115							115
120							120
125							125
130							130
135	63.0	315.2	39,000				135
140	61.3	312.5	36,800				140
145	59.6	309.6	34,700				145
150	57.9	306.4	32,800				150
155	56.2	303.1	31,000				155
160	54.4	299.5	29,400	58.4	303.6	24,900	160
165	52.5	295.7	27,800	56.7	300.3	23,500	165
170	50.7	291.6	26,400	54.9	296.8	22,200	170
175	48.7	287.2	25,000	53.1	293.1	20,900	175
180	46.7	282.6	23,700	51.2	289.1	19,700	180
185	44.7	277.6	22,500	49.3	284.8	18,400	185
190	42.5	272.1	21,300	47.4	280.2	17,300	190
195	40.3	266.3	20,200	45.3	275.3	16,200	195
200	37.9	260.0	19,200	43.2	270.0	15,100	200
205	35.5	253.1	18,200	41.0	264.3	14,100	205
210	32.8	245.5	17,200	38.7	258.2	13,200	210
215	30.0	237.0	16,300	36.2	251.4	12,300	215
220	26.8	227.4	15,400	33.6	244.1	11,400	220
225	23.3	216.3	14,500	30.9	235.9	10,600	225
230	19.1	202.8	13,600	27.8	226.7	9,700	230
235	13.6	184.8	12,700	24.4	216.1	9,000	235
240				20.4	203.4	8,200	240
245				15.5	187.2	7,400	245



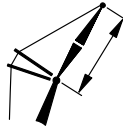
309,100 lb



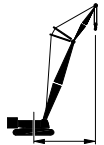
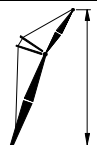
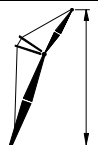
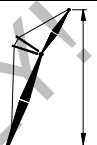
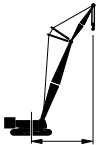
360°



137.8 ft



216.5 ft

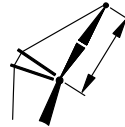
	 86°			 83°			 80°			
 ft	 °	 ft	 lb	 °	 ft	 lb	 °	 ft	 lb	 ft
80	73.8	353.1	99,100							80
85	72.4	351.5	97,200							85
90	71.0	349.7	89,800							90
95	69.6	347.9	83,300	71.6	349.7	78,200				95
100	68.1	345.9	77,500	70.2	347.9	72,700				100
105	66.7	343.7	72,400	68.8	346.0	67,800				105
110	65.2	341.4	67,700	67.4	343.9	63,400				110
115	63.8	338.9	63,600	65.9	341.7	59,500	68.0	343.7	55,400	115
120	62.3	336.3	59,800	64.4	339.3	55,900	66.5	341.5	52,000	120
125	60.8	333.5	56,300	63.0	336.7	52,600	65.1	339.2	48,800	125
130	59.2	330.5	53,100	61.4	334.0	49,500	63.6	336.7	46,000	130
135	57.7	327.4	50,200	59.9	331.1	46,800	62.1	334.0	43,300	135
140	56.1	324.0	47,500	58.4	328.0	44,200	60.6	331.2	40,900	140
145	54.4	320.5	45,000	56.8	324.8	41,800	59.0	328.2	38,700	145
150	52.8	316.7	42,700	55.2	321.3	39,600	57.5	325.0	36,600	150
155	51.1	312.6	40,500	53.5	317.6	37,600	55.9	321.6	34,600	155
160	49.3	308.4	38,500	51.8	313.7	35,600	54.3	318.1	32,800	160
165	47.5	303.8	36,600	50.1	309.5	33,900	52.6	314.2	31,100	165
170	45.7	299.0	34,800	48.4	305.1	32,200	50.9	310.2	29,500	170
175	43.8	293.8	33,200	46.5	300.4	30,600	49.1	305.9	28,000	175
180	41.8	288.2	31,600	44.7	295.4	29,100	47.3	301.3	26,600	180
185	39.8	282.3	30,100	42.7	290.0	27,700	45.5	296.4	25,300	185
190	37.6	275.9	28,700	40.7	284.2	26,300	43.6	291.2	24,000	190
195	35.4	268.9	27,400	38.6	278.0	25,100	41.6	285.6	22,800	195
200	33.0	261.4	26,100	36.4	271.3	23,900	39.5	279.6	21,700	200
205	30.4	253.0	24,900	34.1	264.0	22,700	37.4	273.2	20,600	205
210	27.6	243.7	23,700	31.6	256.1	21,600	35.1	266.1	19,600	210
215	24.5	233.1	22,600	28.9	247.2	20,600	32.7	258.5	18,600	215
220	20.9	220.7	21,600	25.9	237.2	19,600	30.1	250.0	17,600	220
225	16.7	205.4	20,500	22.6	225.7	18,600	27.3	240.6	16,700	225
230	10.8	183.7	19,500	18.7	211.9	17,700	24.1	229.8	15,900	230
235				13.8	193.9	16,800	20.5	217.2	15,000	235
240				4.9	160.6	15,800	16.1	201.4	14,200	240
245							9.9	178.4	13,300	245
250										250
255										255



309,100 lb

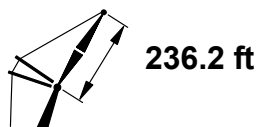
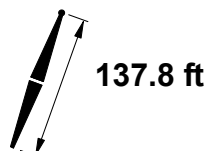


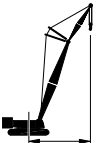
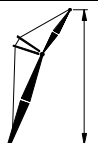
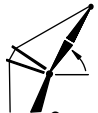
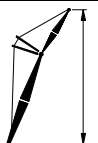
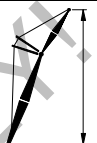
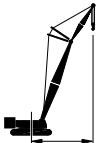
137.8 ft



216.5 ft

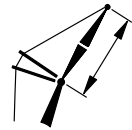
	75°			70°			
ft	ft	ft	lb	ft	lb	ft	ft
80							80
85							85
90							90
95							95
100							100
105							105
110							110
115							115
120							120
125							125
130							130
135							135
140							140
145	62.7	332.2	33,500				145
150	61.1	329.5	31,600				150
155	59.6	326.5	29,800				155
160	58.1	323.4	28,200				160
165	56.5	320.1	26,600				165
170	54.9	316.6	25,200	58.5	320.6	20,400	170
175	53.2	312.9	23,800	57.0	317.3	19,100	175
180	51.5	308.9	22,500	55.4	313.9	17,800	180
185	49.8	304.7	21,300	53.7	310.2	16,600	185
190	48.0	300.2	20,200	52.0	306.3	15,500	190
195	46.2	295.4	19,100	50.3	302.2	14,400	195
200	44.3	290.3	18,000	48.6	297.8	13,400	200
205	42.3	284.9	16,900	46.7	293.1	12,400	205
210	40.3	279.1	15,900	44.9	288.1	11,500	210
215	38.2	272.8	14,900	42.9	282.8	10,600	215
220	35.9	266.0	13,900	40.9	277.1	9,700	220
225	33.6	258.6	13,000	38.8	270.9	8,900	225
230	31.0	250.4	12,100	36.6	264.3	8,100	230
235	28.3	241.4	11,300	34.3	257.1	7,400	235
240	25.3	231.1	10,500				240
245	21.9	219.3	9,700				245
250	17.9	204.9	8,900				250
255	12.6	185.5	8,100				255



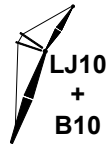
	 86°			 83°			 80°			
 ft		 ft	 lb		 ft	 lb		 ft	 lb	 ft
85	73.9	372.1	82,200							85
90	72.6	370.6	81,600							90
95	71.3	368.9	80,900							95
100	70.1	367.0	76,600	71.9	368.8	71,800				100
105	68.8	365.1	71,500	70.6	367.1	66,900				105
110	67.4	363.0	66,900	69.3	365.2	62,500				110
115	66.1	360.8	62,700	68.0	363.2	58,500				115
120	64.8	358.4	58,900	66.7	361.0	54,900	68.6	362.9	51,000	120
125	63.4	355.9	55,400	65.4	358.7	51,600	67.3	360.8	47,900	125
130	62.0	353.3	52,200	64.0	356.3	48,600	66.0	358.6	45,000	130
135	60.7	350.5	49,300	62.7	353.7	45,800	64.6	356.2	42,400	135
140	59.2	347.5	46,600	61.3	351.0	43,300	63.3	353.7	40,000	140
145	57.8	344.4	44,100	59.9	348.1	40,900	61.9	351.0	37,700	145
150	56.4	341.0	41,800	58.5	345.0	38,700	60.5	348.2	35,600	150
155	54.9	337.5	39,600	57.0	341.7	36,700	59.1	345.2	33,700	155
160	53.4	333.8	37,600	55.5	338.3	34,700	57.6	342.0	31,900	160
165	51.8	329.9	35,700	54.0	334.7	33,000	56.2	338.7	30,200	165
170	50.2	325.7	34,000	52.5	330.9	31,300	54.7	335.1	28,600	170
175	48.6	321.4	32,300	51.0	326.8	29,700	53.2	331.4	27,100	175
180	47.0	316.7	30,800	49.4	322.6	28,200	51.6	327.5	25,700	180
185	45.3	311.8	29,300	47.7	318.0	26,800	50.1	323.3	24,400	185
190	43.5	306.6	27,900	46.0	313.2	25,500	48.5	318.9	23,100	190
195	41.7	301.0	26,600	44.3	308.1	24,200	46.8	314.2	21,900	195
200	39.8	295.1	25,300	42.5	302.7	23,000	45.1	309.2	20,800	200
205	37.9	288.7	24,100	40.7	297.0	21,900	43.3	304.0	19,700	205
210	35.8	281.8	23,000	38.8	290.8	20,800	41.5	298.4	18,700	210
215	33.6	274.4	21,900	36.7	284.2	19,800	39.6	292.4	17,700	215
220	31.3	266.4	20,800	34.6	277.0	18,800	37.6	286.0	16,800	220
225	28.9	257.5	19,800	32.4	269.3	17,900	35.6	279.1	15,900	225
230	26.2	247.6	18,900	30.0	260.8	17,000	33.4	271.6	15,000	230
235	23.2	236.4	18,000	27.4	251.4	16,100	31.1	263.4	14,100	235
240	19.8	223.2	17,100	24.6	240.8	15,300	28.6	254.5	13,200	240
245	15.6	206.9	16,200	21.4	228.6	14,500	25.9	244.5	12,300	245
250	9.8	183.4	15,300	17.6	213.9	13,700	22.8	233.0	11,500	250
255				12.8	194.6	12,900	19.4	219.6	10,700	255
260				3.3	155.8	11,900	15.1	202.8	9,900	260
265							8.9	177.8	9,100	265



309,100 lb



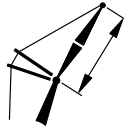
	75°		
	ft	ft	lb
85			
90			
95			
100			
105			
110			
115			
120			
125			
130			
135			
140			
145			
150	63.8	351.8	30,500
155	62.4	349.2	28,800
160	61.0	346.4	27,100
165	59.6	343.5	25,600
170	58.2	340.4	24,200
175	56.7	337.1	22,800
180	55.3	333.6	21,500
185	53.7	330.0	20,200
190	52.2	326.1	18,900
195	50.6	322.0	17,800
200	49.0	317.7	16,600
205	47.4	313.1	15,500
210	45.7	308.3	14,500
215	44.0	303.1	13,500
220	42.2	297.7	12,600
225	40.3	291.8	11,700
230	38.4	285.6	10,800
235	36.3	278.8	10,000
240	34.2	271.6	9,200
245	31.9	263.7	8,400
250	29.5	255.0	7,700
255	26.9	245.4	7,000
260			
265			



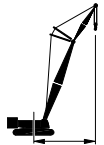
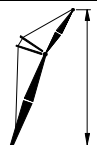
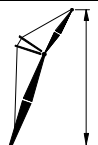
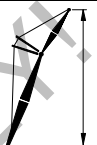
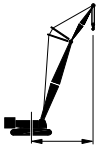
309,100 lb

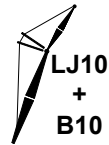


137.8 ft

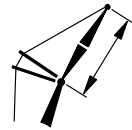


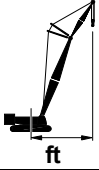
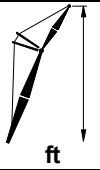
255.9 ft

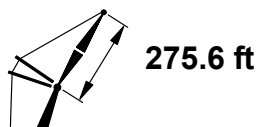
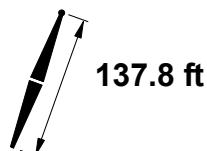
	 86°			 83°			 80°			
 ft		 ft	 lb		 ft	 lb		 ft	 lb	 ft
90	74.0	391.2	68,700							90
95	72.8	389.6	68,000							95
100	71.7	388.0	67,400							100
105	70.5	386.2	66,700							105
110	69.3	384.3	65,800	71.0	386.2	61,400				110
115	68.1	382.3	61,700	69.8	384.3	57,400				115
120	66.8	380.1	57,900	68.6	382.4	53,800				120
125	65.6	377.9	54,400	67.4	380.3	50,500				125
130	64.4	375.5	51,200	66.2	378.1	47,500	67.9	380.1	43,800	130
135	63.1	372.9	48,300	64.9	375.8	44,700	66.7	377.9	41,200	135
140	61.8	370.2	45,600	63.7	373.3	42,200	65.5	375.6	38,800	140
145	60.6	367.4	43,100	62.4	370.7	39,800	64.2	373.2	36,500	145
150	59.3	364.5	40,800	61.1	367.9	37,600	63.0	370.6	34,500	150
155	57.9	361.3	38,600	59.8	365.0	35,600	61.7	368.0	32,500	155
160	56.6	358.0	36,600	58.5	361.9	33,700	60.4	365.1	30,700	160
165	55.2	354.6	34,700	57.2	358.7	31,900	59.1	362.1	29,000	165
170	53.9	350.9	33,000	55.9	355.3	30,200	57.8	359.0	27,500	170
175	52.4	347.1	31,300	54.5	351.8	28,600	56.4	355.7	26,000	175
180	51.0	343.1	29,800	53.1	348.0	27,200	55.1	352.2	24,600	180
185	49.5	338.8	28,300	51.7	344.1	25,800	53.7	348.5	23,300	185
190	48.0	334.3	26,900	50.2	339.9	24,400	52.3	344.7	22,000	190
195	46.5	329.6	25,600	48.7	335.6	23,200	50.8	340.6	20,800	195
200	44.9	324.6	24,300	47.2	330.9	22,000	49.4	336.3	19,700	200
205	43.3	319.3	23,100	45.6	326.1	20,900	47.9	331.8	18,600	205
210	41.6	313.7	22,000	44.0	320.9	19,800	46.3	327.1	17,500	210
215	39.9	307.8	20,900	42.4	315.5	18,800	44.7	322.0	16,500	215
220	38.1	301.5	19,900	40.7	309.7	17,800	43.1	316.7	15,400	220
225	36.2	294.7	18,900	38.9	303.6	16,900	41.4	311.1	14,400	225
230	34.2	287.5	18,000	37.0	297.0	16,000	39.7	305.1	13,500	230
235	32.1	279.6	17,100	35.1	290.0	15,100	37.9	298.8	12,600	235
240	29.9	271.1	16,200	33.1	282.4	14,200	36.0	291.9	11,700	240
245	27.5	261.7	15,400	30.9	274.2	13,300	34.0	284.6	10,900	245
250	24.9	251.3	14,600	28.6	265.2	12,400	31.9	276.7	10,100	250
255	22.1	239.4	13,800	26.1	255.3	11,600	29.7	268.1	9,300	255
260	18.7	225.5	13,000	23.4	244.1	10,800	27.3	258.6	8,500	260
265	14.7	208.2	12,200	20.3	231.3	10,000	24.6	248.0	7,800	265
270	8.9	182.9	11,400	16.6	215.7	9,200	21.7	236.0	7,100	270
275				11.9	195.1	8,500				275

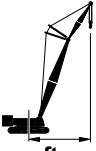
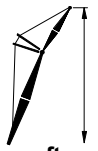
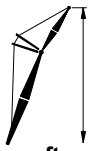
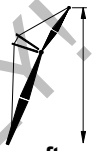
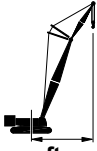


309,100 lb



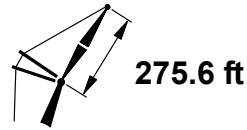
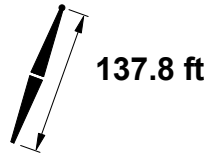
	75°		
			
	ft	ft	lb
90			
95			
100			
105			
110			
115			
120			
125			
130			
135			
140			
145			
150			
155			
160	63.4	368.8	25,800
165	62.2	366.1	24,200
170	60.9	363.4	22,600
175	59.6	360.4	21,100
180	58.3	357.3	19,700
185	56.9	354.1	18,400
190	55.6	350.7	17,200
195	54.2	347.1	16,000
200	52.8	343.3	14,900
205	51.4	339.3	13,800
210	49.9	335.1	12,800
215	48.4	330.7	11,800
220	46.9	326.0	10,900
225	45.3	321.1	10,000
230	43.7	315.9	9,200
235	42.0	310.4	8,400
240	40.3	304.6	7,600
245			
250			
255			
260			
265			
270			
275			



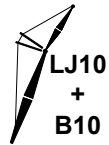
	 86°			 83°			 80°			
 ft	 °	 ft	 lb	 °	 ft	 lb	 °	 ft	 lb	 ft
95	74.1	410.2	56,700							95
100	73.0	408.7	56,000							100
105	71.9	407.1	55,400							105
110	70.8	405.3	54,700							110
115	69.7	403.5	54,100	71.3	405.3	54,100				115
120	68.6	401.5	53,500	70.2	403.5	52,900				120
125	67.5	399.4	52,800	69.1	401.6	49,600				125
130	66.3	397.2	50,400	68.0	399.6	46,600				130
135	65.2	394.9	47,500	66.8	397.4	43,900	68.5	399.3	40,300	135
140	64.0	392.5	44,800	65.7	395.2	41,300	67.3	397.2	37,900	140
145	62.9	389.9	42,300	64.5	392.8	38,900	66.2	395.0	35,600	145
150	61.7	387.2	40,000	63.4	390.3	36,800	65.1	392.7	33,500	150
155	60.5	384.4	37,800	62.2	387.6	34,700	63.9	390.2	31,600	155
160	59.3	381.4	35,800	61.0	384.9	32,800	62.7	387.6	29,800	160
165	58.1	378.3	33,900	59.8	382.0	31,000	61.5	384.9	28,100	165
170	56.8	375.0	32,200	58.6	378.9	29,400	60.4	382.1	26,600	170
175	55.5	371.6	30,500	57.4	375.7	27,800	59.1	379.1	25,100	175
180	54.3	368.0	28,900	56.1	372.4	26,300	57.9	376.0	23,700	180
185	53.0	364.2	27,500	54.8	368.8	24,900	56.7	372.7	22,400	185
190	51.6	360.3	26,100	53.6	365.2	23,600	55.4	369.2	21,100	190
195	50.3	356.2	24,800	52.2	361.3	22,400	54.1	365.6	19,800	195
200	48.9	351.8	23,500	50.9	357.2	21,200	52.8	361.8	18,500	200
205	47.5	347.3	22,300	49.5	353.0	20,100	51.5	357.9	17,300	205
210	46.1	342.5	21,200	48.1	348.5	19,000	50.1	353.7	16,200	210
215	44.6	337.4	20,100	46.7	343.8	18,000	48.8	349.3	15,200	215
220	43.1	332.1	19,100	45.3	338.9	16,900	47.4	344.7	14,100	220
225	41.5	326.5	18,200	43.8	333.7	15,900	45.9	339.9	13,200	225
230	39.9	320.6	17,200	42.2	328.2	14,900	44.4	334.9	12,200	230
235	38.2	314.3	16,300	40.6	322.5	13,900	42.9	329.5	11,300	235
240	36.5	307.6	15,500	39.0	316.3	13,000	41.3	323.9	10,500	240
245	34.7	300.4	14,600	37.3	309.8	12,100	39.7	317.9	9,600	245
250	32.8	292.8	13,700	35.5	302.9	11,300	38.0	311.6	8,900	250
255	30.8	284.5	12,900	33.6	295.5	10,500	36.3	304.8	8,100	255
260	28.6	275.5	12,000	31.7	287.5	9,700	34.5	297.6	7,400	260
265	26.3	265.7	11,200	29.6	278.9	8,900				265
270	23.8	254.7	10,400	27.4	269.4	8,200				270
275	21.0	242.2	9,700	25.0	259.0	7,500				275
280	17.8	227.6	8,900							280
285	13.9	209.2	8,200							285
290	8.1	181.9	7,400							290



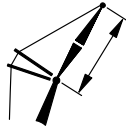
309,100 lb

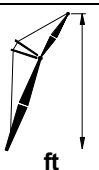
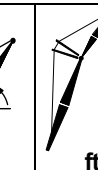
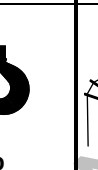
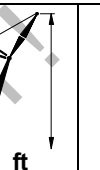


	75°		
	ft	ft	lb
95			
100			
105			
110			
115			
120			
125			
130			
135			
140			
145			
150			
155			
160			
165			
170	63.2	385.8	21,100
175	62.0	383.1	19,700
180	60.8	380.3	18,300
185	59.6	377.4	17,000
190	58.4	374.3	15,800
195	57.1	371.1	14,600
200	55.9	367.7	13,500
205	54.6	364.1	12,400
210	53.3	360.4	11,400
215	52.0	356.5	10,500
220	50.6	352.4	9,600
225	49.3	348.2	8,700
230	47.9	343.6	7,900
235	46.4	338.9	7,100
240			
245			
250			
255			
260			
265			
270			
275			
280			
285			
290			



309,100 lb



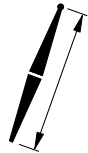
	86°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
45	72.1	239.7	239,700 c							45
50	68.2	237.7	207,000 c							50
55	64.2	235.2	181,800 b							55
60	60.0	232.3	161,800	70.8	238.1	172,000 c				60
65	55.6	228.9	145,400	66.8	236.0	153,000 b				65
70	50.9	224.9	131,800	62.7	233.4	137,500 b				70
75	45.9	220.1	120,400	58.5	230.3	124,700	65.4	233.8	117,500 b	75
80	40.3	214.4	110,500	54.0	226.7	113,800	61.2	231.0	107,200 b	80
85	34.0	207.3	102,000	49.2	222.4	104,500	56.9	227.8	98,400	85
90	26.2	197.9	94,400	44.0	217.4	96,400	52.3	223.9	90,800	90
95	14.7	182.9	87,500	38.2	211.2	89,300	47.4	219.4	84,100	95
100				31.5	203.4	83,000	42.0	214.0	78,200	100
105				23.0	192.8	77,300	36.0	207.3	73,000	105
110				6.0	170.2	71,900	28.8	198.8	68,200	110
115							19.0	186.3	63,700	115
120										120
125										125
130										130
135										135
140										140
145										145
150										150

MLC300 S-1

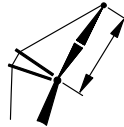
ASME B30.5



309,100 lb

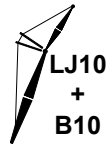


157.5 ft



78.7 ft

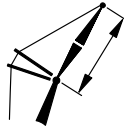
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90	59.9	226.9	75,400 b							90
95	55.5	223.5	70,100							95
100	50.9	219.5	65,400							100
105	45.8	214.7	61,100	58.4	221.4	54,000				105
110	40.3	209.0	57,200	53.9	217.8	50,500				110
115	34.0	201.8	53,700	49.1	213.5	47,400				115
120	26.2	192.4	50,400	43.9	208.4	44,500				120
125	14.7	177.4	47,300	38.1	202.2	41,900	51.8	210.5	36,300	125
130				31.4	194.4	39,400	46.8	205.8	34,100	130
135				22.7	183.7	37,100	41.4	200.3	32,100	135
140				4.7	159.5	34,600	35.2	193.5	30,300	140
145							27.8	184.6	28,500	145
150							17.5	171.3	26,700	150



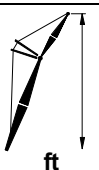
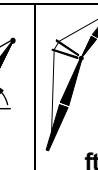
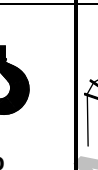
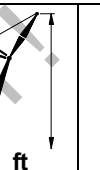
309,100 lb



157.5 ft

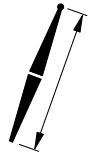


98.4 ft

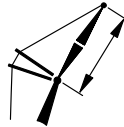
	86°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
50	72.8	258.8	206,300 c							50
55	69.7	256.9	181,100 b							55
60	66.5	254.7	161,100	71.7	257.2	152,000 b				60
65	63.2	252.2	144,800	68.6	255.3	136,600 b				65
70	59.9	249.3	131,300	65.4	253.0	123,800				70
75	56.4	246.0	119,900	62.1	250.3	113,000	67.4	253.2	106,100 b	75
80	52.7	242.2	110,100	58.7	247.3	103,800	64.2	250.7	97,400	80
85	48.9	237.9	101,600	55.1	243.8	95,800	60.9	248.0	89,900	85
90	44.8	232.9	94,200	51.4	239.9	88,800	57.4	244.8	83,300	90
95	40.3	227.1	87,700	47.5	235.3	82,600	53.8	241.1	77,400	95
100	35.4	220.3	81,900	43.3	230.1	77,100	50.0	237.0	72,300	100
105	29.7	211.9	76,600	38.7	224.0	72,100	46.0	232.2	67,600	105
110	22.7	201.0	71,800	33.5	216.7	67,700	41.7	226.7	63,400	110
115	12.0	183.2	67,300	27.5	207.7	63,600	36.9	220.2	59,600	115
120				19.7	195.3	59,800	31.5	212.4	56,100	120
125							25.0	202.4	52,900	125
130							16.0	187.8	49,800	130
135										135
140										140
145										145
150										150
155										155
160										160
165										165
170										170



309,100 lb

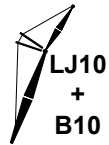


157.5 ft



98.4 ft

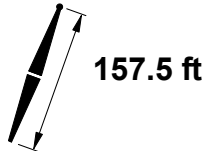
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95	63.2	246.8	68,900							95
100	59.9	243.9	64,200							100
105	56.4	240.6	60,100							105
110	52.7	236.8	56,300							110
115	48.9	232.4	52,900	58.6	238.4	46,200				115
120	44.8	227.5	49,700	55.0	234.9	43,400				120
125	40.3	221.7	46,900	51.3	230.9	40,800				125
130	35.4	214.9	44,200	47.4	226.4	38,500				130
135	29.7	206.5	41,800	43.2	221.1	36,300	53.4	227.7	30,900	135
140	22.7	195.6	39,400	38.6	215.0	34,300	49.6	223.5	29,100	140
145	11.9	177.8	37,100	33.4	207.7	32,400	45.5	218.6	27,500	145
150				27.4	198.6	30,600	41.2	213.0	25,900	150
155				19.5	186.1	28,900	36.3	206.4	24,500	155
160							30.8	198.4	23,100	160
165							24.2	188.1	21,700	165
170							14.6	172.4	20,400	170



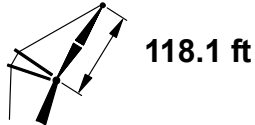
309,100 lb



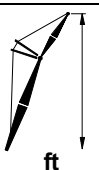
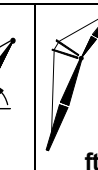
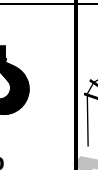
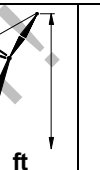
360°



157.5 ft

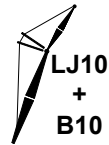


118.1 ft

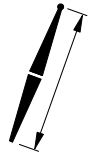
	86°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
55	73.2	277.8	180,500	b						55
60	70.6	276.1	160,500							60
65	68.0	274.0	144,300							65
70	65.3	271.7	130,800		69.7	274.5	123,100			70
75	62.6	269.1	119,400		67.1	272.4	112,300			75
80	59.8	266.2	109,600		64.4	270.0	103,100	68.8	272.4	96,600
85	56.9	263.0	101,200		61.6	267.3	95,100	66.1	270.2	89,100
90	53.9	259.4	93,800		58.8	264.3	88,200	63.4	267.7	82,500
95	50.8	255.3	87,300		55.9	260.9	82,000	60.6	264.9	76,700
100	47.5	250.8	81,600		52.8	257.1	76,600	57.8	261.8	71,600
105	44.0	245.7	76,400		49.7	252.9	71,700	54.8	258.2	67,000
110	40.3	239.9	71,700		46.3	248.2	67,300	51.7	254.3	62,800
115	36.3	233.2	67,500		42.8	242.8	63,300	48.5	249.9	59,100
120	31.8	225.4	63,700		39.0	236.8	59,700	45.1	245.0	55,700
125	26.6	216.0	60,100		34.8	229.8	56,300	41.5	239.4	52,500
130	20.1	203.6	56,800		30.1	221.5	53,300	37.5	233.1	49,700
135	9.8	182.9	53,600		24.6	211.2	50,400	33.2	225.7	47,000
140					17.3	197.1	47,700	28.2	216.8	44,500
145								22.3	205.5	42,200
150								13.8	188.7	39,900
155										155
160										160
165										165
170										170
175										175
180										180
185										185
190										190

MLC300 S-1

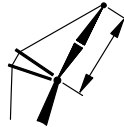
ASME B30.5



309,100 lb

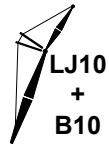


157.5 ft



118.1 ft

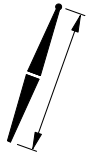
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105	62.6	263.7	59,200							105
110	59.8	260.8	55,500							110
115	56.9	257.6	52,100							115
120	53.9	253.9	49,000							120
125	50.8	249.9	46,200	58.7	255.3	39,900				125
130	47.5	245.3	43,600	55.8	252.0	37,600				130
135	44.0	240.2	41,200	52.8	248.2	35,500				135
140	40.3	234.4	39,000	49.6	243.9	33,500				140
145	36.3	227.8	36,900	46.3	239.2	31,700				145
150	31.8	220.0	35,000	42.7	233.9	30,000	51.4	240.9	25,100	150
155	26.6	210.5	33,200	38.9	227.8	28,400	48.1	236.4	23,700	155
160	20.1	198.1	31,400	34.7	220.8	26,900	44.7	231.4	22,400	160
165	9.8	177.4	29,700	30.0	212.4	25,500	41.0	225.8	21,100	165
170				24.4	202.1	24,100	37.1	219.3	19,900	170
175				17.1	187.9	22,800	32.7	211.7	18,700	175
180							27.6	202.6	17,500	180
185							21.5	190.9	16,300	185
190							12.4	173.0	15,100	190



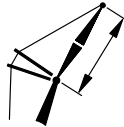
309,100 lb



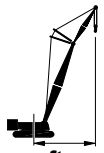
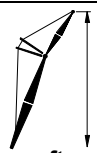
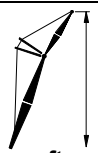
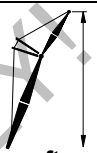
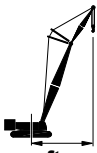
360°



157.5 ft



137.8 ft

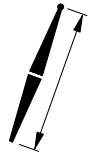
	 86°			 83°			 80°			
 ft	 °	 ft	 lb	 °	 ft	 lb	 °	 ft	 lb	 ft
60	73.5	296.9	159,600							60
65	71.3	295.2	143,300							65
70	69.1	293.3	129,800							70
75	66.8	291.1	118,500	70.5	293.7	111,200				75
80	64.5	288.8	108,700	68.3	291.7	102,000				80
85	62.2	286.1	100,300	66.0	289.4	94,100				85
90	59.7	283.2	93,000	63.7	287.0	87,200	67.5	289.6	81,300	90
95	57.3	280.0	86,500	61.3	284.2	81,000	65.2	287.2	75,600	95
100	54.7	276.5	80,800	58.9	281.2	75,600	62.9	284.7	70,500	100
105	52.1	272.6	75,600	56.4	277.9	70,700	60.5	281.9	65,900	105
110	49.4	268.3	71,000	53.8	274.3	66,400	58.0	278.7	61,800	110
115	46.5	263.6	66,800	51.2	270.3	62,400	55.5	275.3	58,000	115
120	43.5	258.4	63,000	48.4	265.9	58,800	52.9	271.5	54,700	120
125	40.3	252.6	59,500	45.5	261.0	55,500	50.2	267.4	51,600	125
130	36.9	246.1	56,300	42.4	255.6	52,500	47.4	262.8	48,700	130
135	33.2	238.6	53,300	39.2	249.6	49,700	44.4	257.8	46,100	135
140	29.0	230.0	50,600	35.7	242.7	47,100	41.3	252.2	43,700	140
145	24.2	219.4	48,000	31.8	234.9	44,700	38.0	245.9	41,400	145
150	18.1	205.7	45,600	27.4	225.7	42,500	34.3	238.7	39,300	150
155	7.9	181.7	43,200	22.3	214.3	40,400	30.3	230.5	37,300	155
160				15.4	198.6	38,300	25.7	220.6	35,500	160
165							20.1	208.0	33,700	165
170							12.0	189.2	32,000	170
175										175
180										180
185										185
190										190
195										195
200										200
205										205
210										210

MLC300 S-1

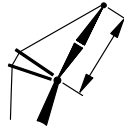
ASME B30.5



309,100 lb

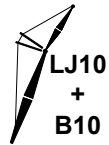


157.5 ft



137.8 ft

	75°			70°			65°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110										110
115	62.1	280.7	50,800							115
120	59.7	277.8	47,800							120
125	57.3	274.6	45,000							125
130	54.7	271.0	42,400							130
135	52.1	267.2	40,100	58.8	272.3	34,200				135
140	49.4	262.9	37,900	56.4	269.0	32,200				140
145	46.5	258.2	35,900	53.8	265.3	30,500				145
150	43.5	253.0	34,000	51.1	261.3	28,800				150
155	40.3	247.2	32,300	48.3	256.9	27,200				155
160	36.9	240.7	30,600	45.4	252.0	25,800	52.6	258.1	20,600	160
165	33.2	233.2	29,100	42.4	246.6	24,400	49.9	253.9	19,300	165
170	29.0	224.5	27,600	39.1	240.6	23,100	47.0	249.3	18,100	170
175	24.2	214.0	26,200	35.6	233.7	21,900	44.1	244.2	16,900	175
180	18.1	200.2	24,800	31.7	225.9	20,700	40.9	238.5	15,800	180
185	7.9	176.3	23,400	27.3	216.6	19,600	37.6	232.1	14,800	185
190				22.1	205.1	18,500	33.9	224.9	13,800	190
195				15.2	189.3	17,400	29.8	216.4	12,800	195
200							25.1	206.3	11,900	200
205							19.3	193.3	10,900	205
210							10.6	172.9	9,900	210



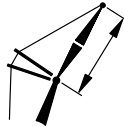
309,100 lb



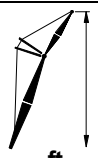
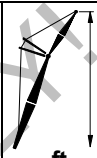
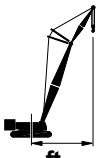
360°



157.5 ft



157.5 ft

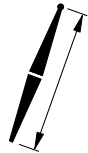
	 86°			 83°			 80°			
	 ft	 ft	 lb	 ft	 ft	 lb	 ft	 ft	 lb	 ft
65	73.7	316.0	142,200							65
70	71.8	314.3	128,700							70
75	69.9	312.5	117,400							75
80	67.9	310.4	107,600	71.1	312.8	100,800				80
85	65.9	308.2	99,200	69.2	310.9	92,800				85
90	63.9	305.7	91,900	67.2	308.8	85,900				90
95	61.8	303.1	85,400	65.2	306.5	79,800	68.5	308.8	74,200	95
100	59.7	300.1	79,700	63.2	303.9	74,400	66.5	306.6	69,100	100
105	57.6	297.0	74,500	61.1	301.2	69,500	64.5	304.3	64,600	105
110	55.3	293.5	69,900	59.0	298.2	65,200	62.4	301.7	60,500	110
115	53.1	289.8	65,700	56.8	294.9	61,200	60.3	298.8	56,800	115
120	50.7	285.7	61,900	54.6	291.4	57,600	58.2	295.7	53,400	120
125	48.3	281.3	58,500	52.3	287.5	54,400	56.0	292.3	50,300	125
130	45.8	276.5	55,300	49.9	283.3	51,400	53.8	288.7	47,500	130
135	43.1	271.2	52,300	47.4	278.8	48,600	51.4	284.7	44,900	135
140	40.3	265.4	49,600	44.9	273.8	46,100	49.0	280.4	42,500	140
145	37.4	258.9	47,100	42.2	268.3	43,700	46.5	275.7	40,200	145
150	34.2	251.7	44,800	39.3	262.3	41,500	43.9	270.6	38,200	150
155	30.7	243.5	42,600	36.3	255.6	39,400	41.2	264.9	36,200	155
160	26.8	234.0	40,500	33.0	248.1	37,500	38.3	258.7	34,400	160
165	22.2	222.5	38,600	29.4	239.5	35,700	35.2	251.7	32,700	165
170	16.4	207.3	36,700	25.3	229.4	33,900	31.8	243.8	31,100	170
175	6.2	179.7	34,800	20.4	216.9	32,300	28.0	234.8	29,600	175
180				13.8	199.6	30,700	23.7	223.9	28,100	180
185							18.3	210.2	26,700	185
190							10.4	189.1	25,300	190
195										195
200										200
205										205
210										210
215										215

MLC300 S-1

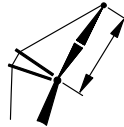
ASME B30.5



309,100 lb

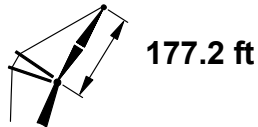
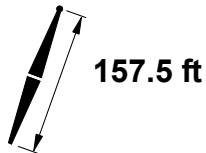
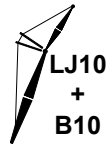


157.5 ft



157.5 ft

	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110										110
115										115
120	63.9	300.3	46,300							120
125	61.8	297.6	43,600							125
130	59.7	294.7	41,000							130
135	57.6	291.6	38,700							135
140	55.3	288.1	36,500							140
145	53.1	284.4	34,600	58.9	289.3	29,000				145
150	50.7	280.3	32,700	56.8	286.0	27,300				150
155	48.3	275.9	31,000	54.5	282.4	25,800				155
160	45.8	271.0	29,300	52.2	278.6	24,300				160
165	43.1	265.8	27,800	49.9	274.4	23,000				165
170	40.3	259.9	26,400	47.4	269.8	21,700	53.5	275.3	15,900	170
175	37.4	253.5	25,000	44.8	264.8	20,500	51.2	271.3	14,800	175
180	34.2	246.3	23,800	42.1	259.4	19,300	48.8	266.9	13,700	180
185	30.7	238.1	22,500	39.3	253.3	18,100	46.2	262.2	12,700	185
190	26.8	228.6	21,400	36.2	246.6	17,000	43.6	257.0	11,800	190
195	22.2	217.0	20,300	32.9	239.1	15,900	40.9	251.2	10,900	195
200	16.4	201.9	19,200	29.3	230.5	14,900	37.9	244.9	10,000	200
205	6.1	174.2	18,000	25.2	220.3	13,900	34.8	237.9	9,100	205
210				20.3	207.7	12,900	31.4	229.9	8,300	210
215				13.6	190.2	11,900	27.5	220.6	7,500	215



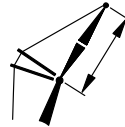
	86°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	ft	
70	73.9	335.0	127,700							70
75	72.2	333.4	116,400							75
80	70.5	331.6	106,600							80
85	68.7	329.7	98,200	71.6	331.9	91,700				85
90	67.0	327.6	90,900	69.9	330.1	84,800				90
95	65.2	325.2	84,400	68.1	328.1	78,700				95
100	63.4	322.7	78,700	66.4	325.9	73,300				100
105	61.6	320.0	73,600	64.6	323.5	68,400	67.5	326.0	63,300	105
110	59.7	317.1	69,000	62.8	320.9	64,100	65.7	323.7	59,300	110
115	57.8	314.0	64,800	60.9	318.1	60,200	63.9	321.3	55,600	115
120	55.8	310.6	61,000	59.0	315.1	56,600	62.1	318.6	52,200	120
125	53.8	306.9	57,500	57.1	311.9	53,300	60.2	315.8	49,100	125
130	51.8	303.0	54,400	55.1	308.4	50,300	58.3	312.7	46,300	130
135	49.6	298.8	51,400	53.1	304.7	47,600	56.4	309.4	43,700	135
140	47.5	294.2	48,700	51.0	300.7	45,000	54.4	305.8	41,400	140
145	45.2	289.3	46,200	48.9	296.3	42,700	52.4	302.0	39,200	145
150	42.8	283.9	43,900	46.7	291.7	40,500	50.3	297.8	37,100	150
155	40.3	278.1	41,800	44.4	286.6	38,500	48.1	293.4	35,200	155
160	37.7	271.7	39,700	42.0	281.1	36,600	45.9	288.6	33,400	160
165	34.9	264.7	37,800	39.5	275.1	34,800	43.5	283.3	31,700	165
170	31.9	256.9	36,000	36.8	268.5	33,100	41.1	277.7	30,100	170
175	28.6	248.0	34,300	33.9	261.2	31,500	38.5	271.5	28,600	175
180	24.9	237.7	32,700	30.8	253.0	30,000	35.8	264.6	27,200	180
185	20.6	225.2	31,200	27.4	243.7	28,600	32.8	257.1	25,900	185
190	15.0	208.7	29,700	23.5	232.7	27,200	29.6	248.5	24,600	190
195	4.3	176.1	28,200	18.8	219.2	25,900	26.1	238.7	23,400	195
200				12.5	200.2	24,600	21.9	226.9	22,300	200
205							16.8	212.0	21,100	205
210							9.1	188.6	20,000	210
215										215
220										220
225										225
230										230
235										235



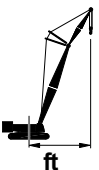
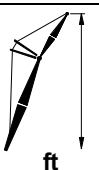
309,100 lb

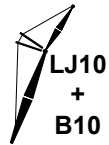


157.5 ft



177.2 ft

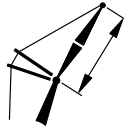
	75°			70°			
							
	ft	ft	lb	ft	ft	lb	ft
70							70
75							75
80							80
85							85
90							90
95							95
100							100
105							105
110							110
115							115
120							120
125							125
130	63.4	317.3	39,700				130
135	61.6	314.6	37,400				135
140	59.7	311.7	35,300				140
145	57.8	308.5	33,300				145
150	55.8	305.1	31,500				150
155	53.8	301.5	29,700	59.0	306.2	24,200	155
160	51.8	297.6	28,100	57.1	303.0	22,700	160
165	49.6	293.4	26,600	55.1	299.5	21,300	165
170	47.5	288.8	25,200	53.1	295.8	19,900	170
175	45.2	283.9	23,900	51.0	291.7	18,700	175
180	42.8	278.5	22,700	48.9	287.4	17,500	180
185	40.3	272.7	21,500	46.6	282.7	16,300	185
190	37.7	266.3	20,300	44.3	277.6	15,200	190
195	34.9	259.3	19,300	41.9	272.1	14,200	195
200	31.9	251.4	18,300	39.4	266.1	13,200	200
205	28.6	242.5	17,300	36.7	259.5	12,300	205
210	24.9	232.2	16,300	33.9	252.2	11,400	210
215	20.6	219.7	15,300	30.7	244.0	10,500	215
220	15.0	203.2	14,300	27.3	234.6	9,700	220
225	4.3	170.6	13,200	23.4	223.6	8,900	225
230				18.7	210.0	8,100	230
235				12.3	190.8	7,200	235



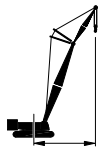
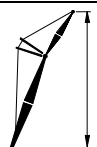
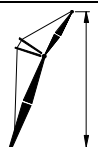
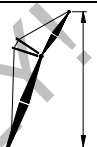
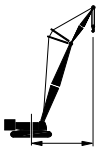
309,100 lb

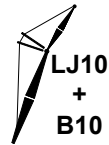


157.5 ft



196.9 ft

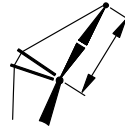
	 86°			 83°			 80°			
 ft		 ft	 lb		 ft	 lb		 ft	 lb	 ft
75	74.0	354.1	110,300							75
80	72.5	352.5	105,900							80
85	71.0	350.8	97,500							85
90	69.4	348.9	90,200	72.0	351.0	83,900				90
95	67.8	346.8	83,700	70.4	349.2	77,800				95
100	66.3	344.6	78,000	68.9	347.3	72,400				100
105	64.6	342.3	72,800	67.3	345.2	67,600				105
110	63.0	339.7	68,200	65.7	342.9	63,300	68.3	345.2	58,400	110
115	61.3	337.0	64,100	64.1	340.5	59,400	66.7	343.1	54,700	115
120	59.7	334.1	60,300	62.4	337.9	55,800	65.1	340.7	51,300	120
125	57.9	330.9	56,800	60.8	335.1	52,600	63.5	338.3	48,300	125
130	56.2	327.6	53,700	59.1	332.1	49,600	61.8	335.6	45,500	130
135	54.4	324.0	50,800	57.3	328.9	46,800	60.2	332.7	42,900	135
140	52.6	320.2	48,100	55.6	325.5	44,300	58.5	329.6	40,500	140
145	50.7	316.1	45,600	53.8	321.8	42,000	56.7	326.4	38,300	145
150	48.8	311.8	43,300	51.9	317.9	39,800	54.9	322.9	36,300	150
155	46.8	307.1	41,100	50.0	313.8	37,700	53.1	319.1	34,400	155
160	44.7	302.1	39,100	48.1	309.3	35,900	51.3	315.1	32,600	160
165	42.6	296.7	37,200	46.1	304.5	34,100	49.4	310.9	30,900	165
170	40.3	290.9	35,400	44.0	299.4	32,400	47.4	306.3	29,400	170
175	38.0	284.5	33,800	41.8	293.8	30,800	45.3	301.4	27,900	175
180	35.5	277.6	32,200	39.5	287.8	29,400	43.2	296.1	26,500	180
185	32.9	270.1	30,700	37.2	281.3	28,000	41.0	290.4	25,200	185
190	30.0	261.6	29,300	34.6	274.2	26,600	38.7	284.2	24,000	190
195	26.9	252.0	28,000	31.9	266.3	25,400	36.3	277.5	22,800	195
200	23.3	241.0	26,700	29.0	257.5	24,200	33.7	270.2	21,700	200
205	19.2	227.5	25,400	25.7	247.5	23,000	30.9	262.0	20,600	205
210	13.8	209.7	24,200	22.0	235.7	21,900	27.8	252.8	19,600	210
215				17.5	221.2	20,800	24.4	242.2	18,600	215
220				11.3	200.4	19,800	20.5	229.6	17,600	220
225							15.6	213.5	16,700	225
230							7.9	187.5	15,700	230
235										235
240										240



309,100 lb



157.5 ft



196.9 ft

	75°			70°			
ft	ft	ft	lb	ft	ft	lb	ft
75							75
80							80
85							85
90							90
95							95
100							100
105							105
110							110
115							115
120							120
125							125
130							130
135							135
140	63.0	334.3	34,300				140
145	61.3	331.6	32,400				145
150	59.7	328.6	30,500				150
155	57.9	325.5	28,800				155
160	56.2	322.2	27,300				160
165	54.4	318.6	25,800				165
170	52.6	314.8	24,400	57.3	320.0	18,500	170
175	50.7	310.7	23,100	55.5	316.6	17,200	175
180	48.8	306.3	21,800	53.7	312.9	16,100	180
185	46.8	301.7	20,700	51.9	309.0	15,000	185
190	44.7	296.7	19,600	50.0	304.8	13,900	190
195	42.6	291.3	18,400	48.0	300.3	12,900	195
200	40.3	285.4	17,300	46.0	295.5	11,900	200
205	38.0	279.1	16,200	43.9	290.4	11,000	205
210	35.5	272.2	15,200	41.8	284.9	10,200	210
215	32.9	264.6	14,300	39.5	278.9	9,300	215
220	30.0	256.2	13,300	37.1	272.3	8,500	220
225	26.9	246.6	12,500	34.6	265.2	7,800	225
230	23.3	235.5	11,600	31.9	257.3	7,000	230
235	19.2	222.1	10,700				235
240	13.8	204.2	9,900				240