

Liftcrane Luffing Jib Capacities

Luffing Jib No. 135 on Boom No. 74A
101,400 lb Crane Counterweight
0 lb Carbody Counterweight
360 Degree Rating

MLC165-1 SERIES 1



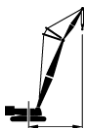
LIFTING CAPACITIES: Lifting capacities for various boom lengths, boom angles, luffing jib lengths, and luffing jib operating radii are for freely suspended loads and may be based on percent of static tipping or strength of structural components.

Luffing Jib Backward Stability: Capacities indicated by (b) require 2,825 lb minimum weight suspended beneath luffing jib point. Capacities indicated by (c) require 6,000 lb minimum weight suspended beneath luffing jib point. Capacities indicated by (d) require 11,000 lb minimum weight suspended beneath luffing jib point. **Caution: Do not luff into areas indicated by (b), (c), or (d) without required minimum weights.** Luffing jib will not luff down and luffing hoist wire rope may overhaul luffing jib and cause luffing hoist to go slack causing wire rope damage or failure.

Weight of all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom and luffing jib point sheaves is considered part of luffing jib load. Boom and luffing jib are not to be lowered beyond radii where combined weights are greater than rated capacity. Where no capacity is shown, operation is not intended or approved.

OPERATING CONDITIONS: Machine to operate on a firm uniformly supporting surface and bearing turntable level within a tolerance of 1/2 in. in 10 ft and properly supported. During operation, boom must be maintained at one of the selected angles shown in chart. Refer to Luffing Jib Assembly **No. 81042733**, Wire Rope Specification chart **No. 9420-A**, Luffing Jib Raising Procedure chart **No. 9418-A**, and Wind Conditions chart **No. 9419-A**. Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, travel, wind conditions, as well as adverse operating conditions and physical machine depreciation. Refer to Operator's Manual for operating guidelines.

MACHINE TRAVEL: Machine to travel on a firm, level, and uniformly supporting surface. Boom and luffing jib must be within angle range shown in capacity chart. Refer to Maximum Allowable Travel Specification chart **No. 9417-A**.



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



BOOM ANGLE: Boom angle in degrees ($^{\circ}$) is angle between horizontal and centerline of boom butt and inserts.



LUFFING JIB ANGLE: Luffing jib angle in degrees ($^{\circ}$) is angle between horizontal and centerline of luffing jib butt and inserts, and is an indication of operating radius. In all cases, operating radius shall govern capacity.



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

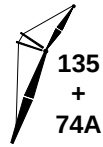
MACHINE EQUIPMENT: Machine equipped with 26 ft 2 in. crawlers, 43 in. treads, 23 ft 7 in. live mast, 18 part boom hoist reeving, boom support straps, 8 part luffing jib hoist reeving, two 1-1/2 in. luffing jib pendants and backstays, 101,400 lb crane counterweight, and 0 lb carbody counterweight.



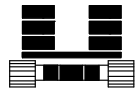
101,400 lb Crane Counterweight
6 Side Boxes

WARNING: Free fall operation is limited to 13,000 lb per part of line when lowering load with free fall clutch/brake pedal. Hydraulic power must be used for full line pull.

Explanation of Symbols



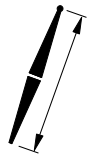
Luffing Jib No. 135
+
Boom No. 74A



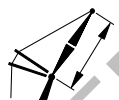
Crane Counterweight
+
Carbody Counterweight



360 Degree Rating



Boom Length

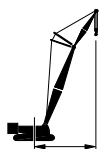


Luffing Jib Length



Boom Angle
(see page 1)

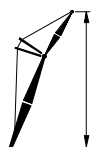
Explanation of Symbols (continued)



Operating Radius
(see page 1)



Luffing Jib Angle
(see page 1)

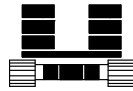
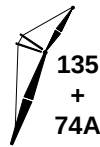


Luffing Jib Point Elevation
(see page 1)

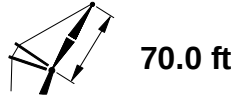
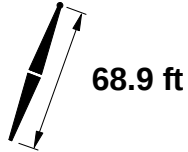


Lifting Capacities
(see page 1)

REFERENCE ONLY!



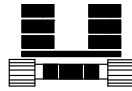
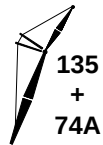
101,400 lb
+
0 lb



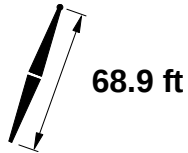
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ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
30	73.8	142.6	110,300 d							30
32	72.1	142.0	110,300 d							32
34	70.4	141.3	110,300 d							34
36	68.6	140.6	110,300 c							36
38	66.9	139.8	104,400 c							38
40	65.1	138.9	97,300 c	69.3	140.3	94,100 c				40
45	60.5	136.3	83,100 b	64.9	138.2	80,300 c				45
50	55.7	133.2	72,300 b	60.3	135.6	69,900 b	63.6	136.8	68,100 c	50
55	50.5	129.4	63,900 b	55.4	132.5	61,800 b	58.9	134.1	60,200 b	55
60	45.0	124.9	57,100	50.3	128.7	55,200 b	54.0	130.8	53,800 b	60
65	38.9	119.3	51,500	44.8	124.1	49,800	48.7	126.8	48,500 b	65
70	31.8	112.3	46,800	38.6	118.5	45,300	43.0	121.9	44,100	70
75	22.9	102.6	42,800	31.5	111.3	41,400	36.7	115.9	40,400	75
80	6.9	83.8	39,200	22.4	101.5	38,100	29.1	108.2	37,100	80
85				5.2	81.1	35,000	19.1	97.0	34,200	85
90										90
95										95
100										100
105										105

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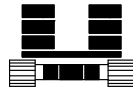
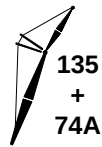
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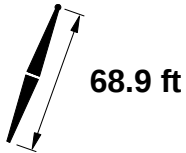
101,400 lb
+
0 lb



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
30										30
32										32
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60	59.7	133.1	51,400 b							60
65	54.8	129.9	46,400 b							65
70	49.6	126.0	42,200 b	55.5	128.4	40,300 b				70
75	44.0	121.3	38,600	50.4	124.6	36,800 b				75
80	37.8	115.5	35,500	44.8	120.0	33,900	50.9	122.5	32,300 b	80
85	30.5	108.2	32,800	38.7	114.4	31,300	45.4	118.0	29,800	85
90	21.0	97.8	30,400	31.5	107.3	29,000	39.3	112.5	27,600	90
95				22.5	97.5	27,000	32.3	105.6	25,700	95
100				5.6	77.5	25,000	23.5	96.1	23,900	100
105							8.7	78.8	22,300	105



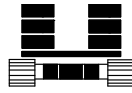
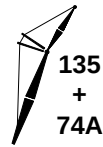
101,400 lb
+
0 lb



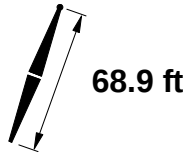
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
32	74.4	152.4	103,900 d							32
34	72.9	151.9	103,900 d							34
36	71.4	151.2	103,100 c							36
38	69.9	150.5	101,000 c							38
40	68.4	149.8	97,100 c							40
45	64.5	147.6	82,900 b	68.2	149.1	80,100 c				45
50	60.4	145.0	72,100 b	64.3	146.9	69,700 b	67.1	147.8	67,900 c	50
55	56.2	141.9	63,700 b	60.2	144.3	61,500 b	63.1	145.5	59,900 b	55
60	51.8	138.2	56,900	56.0	141.2	55,000 b	59.0	142.8	53,500 b	60
65	47.1	134.0	51,400	51.6	137.5	49,600	54.8	139.5	48,300 b	65
70	42.0	128.9	46,700	46.9	133.2	45,100	50.2	135.7	43,900	70
75	36.3	122.7	42,700	41.7	128.1	41,300	45.4	131.1	40,200	75
80	29.7	115.0	39,300	36.0	121.8	38,000	40.1	125.7	36,900	80
85	21.4	104.6	36,300	29.4	114.1	35,100	34.2	119.1	34,100	85
90	6.5	84.4	33,500	20.9	103.4	32,500	27.2	110.7	31,700	90
95				4.9	81.6	30,100	17.8	98.6	29,400	95
100										100
105										105
110										110
115										115

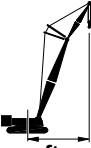
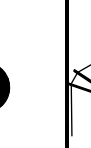
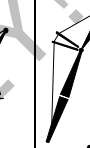
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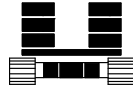
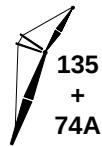
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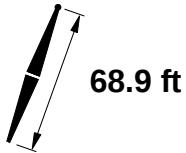
101,400 lb
+
0 lb

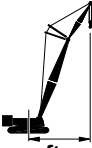
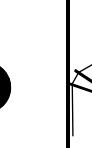


	75°			70°			65°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
32										32
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65	59.7	141.8	46,100 b							65
70	55.5	138.6	41,900 b							70
75	51.0	134.8	38,300	56.1	137.0	36,500 b				75
80	46.2	130.4	35,300	51.6	133.4	33,600				80
85	41.0	125.2	32,600	46.9	129.1	31,000	52.1	131.3	29,500	85
90	35.2	118.8	30,200	41.8	124.0	28,800	47.4	127.0	27,300	90
95	28.5	110.8	28,100	36.1	117.8	26,800	42.3	122.0	25,400	95
100	19.7	99.6	26,200	29.5	110.0	25,000	36.7	115.9	23,700	100
105				21.0	99.4	23,300	30.1	108.4	22,200	105
110				5.3	78.0	21,700	22.0	98.1	20,800	110
115							8.2	79.6	19,400	115



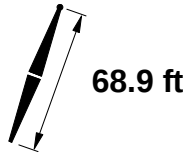
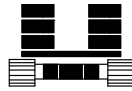
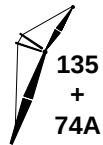
101,400 lb
+
0 lb



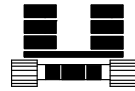
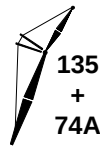
	87°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
34	74.9	162.3	93,800 d							34
36	73.6	161.7	92,800 c							36
38	72.2	161.1	91,000 c							38
40	70.9	160.4	89,300 c							40
45	67.5	158.5	82,700 b	70.7	159.8	79,900 c				45
50	64.0	156.3	72,000 b	67.3	157.8	69,500 b				50
55	60.4	153.6	63,600 b	63.8	155.6	61,400 b	66.3	156.6	59,700 b	55
60	56.6	150.6	56,800	60.2	152.9	54,800 b	62.8	154.2	53,400 b	60
65	52.7	147.0	51,300	56.5	149.8	49,500	59.1	151.4	48,100 b	65
70	48.6	142.9	46,600	52.6	146.3	45,000	55.4	148.2	43,700	70
75	44.2	138.2	42,700	48.4	142.1	41,200	51.4	144.5	40,000	75
80	39.5	132.6	39,300	44.0	137.4	37,900	47.2	140.2	36,800	80
85	34.1	125.9	36,300	39.2	131.7	35,000	42.7	135.2	34,000	85
90	28.0	117.6	33,700	33.9	125.0	32,500	37.8	129.3	31,600	90
95	20.2	106.4	31,300	27.7	116.6	30,200	32.2	122.1	29,400	95
100	6.1	84.9	29,200	19.7	105.2	28,200	25.6	113.1	27,500	100
105				4.6	82.0	26,300	16.8	100.2	25,700	105
110										110
115										115
120										120
125										125

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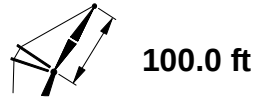
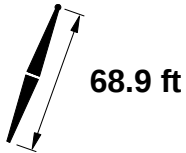
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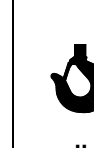
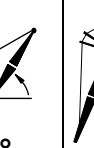
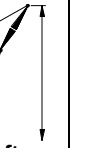


	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70	59.8	150.4	41,700 b							70
75	56.0	147.3	38,100							75
80	52.1	143.6	35,100	56.5	145.7	33,400				80
85	47.9	139.4	32,400	52.6	142.2	30,800				85
90	43.5	134.6	30,100	48.5	138.1	28,600	53.0	140.1	27,100	90
95	38.6	128.8	28,000	44.1	133.3	26,600	48.9	136.0	25,200	95
100	33.2	121.9	26,100	39.3	127.7	24,800	44.5	131.3	23,600	100
105	26.8	113.2	24,500	33.9	120.9	23,200	39.8	125.8	22,000	105
110	18.5	101.3	22,900	27.7	112.6	21,800	34.5	119.1	20,700	110
115				19.8	101.2	20,500	28.4	111.0	19,400	115
120				5.0	78.4	19,100	20.7	100.0	18,200	120
125							7.7	80.3	17,100	125



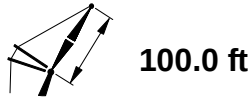
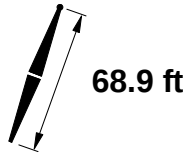
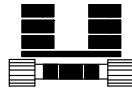
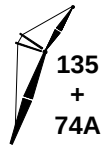
101,400 lb
+
0 lb



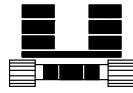
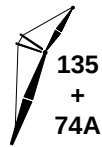
	87°			83°			80°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
38	74.0	171.5	82,700 c							38
40	72.9	170.9	81,200 c							40
45	69.8	169.3	77,300 b							45
50	66.7	167.3	71,800 b	69.7	168.6	69,200 b				50
55	63.6	164.9	63,300 b	66.6	166.6	61,100 b				55
60	60.3	162.3	56,600	63.4	164.3	54,600 b	65.7	165.3	53,100 b	60
65	57.0	159.2	51,000	60.2	161.6	49,200	62.5	162.9	47,800 b	65
70	53.5	155.8	46,400	56.8	158.5	44,700	59.2	160.1	43,500	70
75	49.8	151.8	42,500	53.3	155.0	40,900	55.8	156.9	39,800	75
80	46.0	147.3	39,100	49.7	151.0	37,600	52.3	153.3	36,600	80
85	41.9	142.1	36,100	45.8	146.5	34,800	48.6	149.1	33,800	85
90	37.4	136.1	33,500	41.7	141.3	32,300	44.6	144.4	31,300	90
95	32.3	128.9	31,200	37.1	135.2	30,100	40.4	139.0	29,200	95
100	26.5	120.0	29,100	32.1	127.9	28,100	35.7	132.6	27,200	100
105	19.1	108.1	27,300	26.2	119.0	26,300	30.5	124.9	25,500	105
110	5.8	85.5	25,500	18.7	106.9	24,600	24.3	115.3	23,900	110
115				4.3	82.4	23,000	15.9	101.6	22,500	115
120										120
125										125
130										130
135										135

MLC165-1 S-1

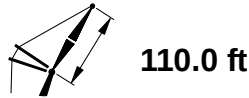
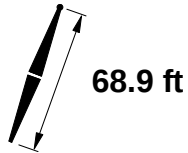
ASME B30.5

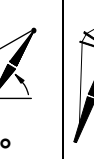


	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75	59.8	159.1	37,800							75
80	56.4	156.0	34,800							80
85	52.9	152.4	32,100	56.9	154.4	30,500				85
90	49.2	148.4	29,800	53.4	150.9	28,300				90
95	45.3	143.8	27,700	49.7	147.0	26,300				95
100	41.1	138.4	25,900	45.8	142.4	24,500	50.1	144.9	23,200	100
105	36.6	132.2	24,200	41.7	137.2	23,000	46.2	140.4	21,700	105
110	31.4	124.8	22,700	37.2	131.1	21,500	42.1	135.2	20,300	110
115	25.4	115.6	21,400	32.2	123.9	20,200	37.6	129.3	19,100	115
120	17.6	102.8	20,100	26.3	115.0	19,000	32.7	122.2	18,000	120
125				18.8	102.9	17,900	26.9	113.4	16,900	125
130				4.7	78.9	16,800	19.6	101.8	15,900	130
135							7.3	80.9	15,000	135



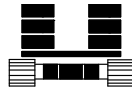
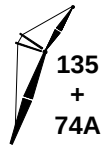
101,400 lb
+
0 lb



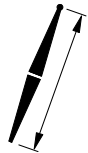
	87°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
40	74.5	181.4	75,500 c							40
45	71.7	179.8	72,500 b							45
50	69.0	178.1	69,700 b							50
55	66.1	176.0	63,300 b	68.8	177.4	61,000 b				55
60	63.3	173.6	56,500	66.0	175.3	54,500 b				60
65	60.3	170.9	51,000	63.1	172.9	49,100	65.2	174.0	47,800	65
70	57.3	167.9	46,300	60.2	170.2	44,700	62.3	171.5	43,400	70
75	54.1	164.5	42,400	57.1	167.2	40,900	59.3	168.7	39,700	75
80	50.8	160.7	39,000	54.0	163.8	37,600	56.2	165.6	36,500	80
85	47.4	156.3	36,100	50.7	159.9	34,700	53.0	162.0	33,700	85
90	43.7	151.4	33,500	47.2	155.5	32,200	49.7	158.0	31,300	90
95	39.8	145.8	31,200	43.6	150.6	30,000	46.2	153.5	29,200	95
100	35.6	139.4	29,200	39.6	145.0	28,100	42.5	148.4	27,200	100
105	30.8	131.7	27,300	35.4	138.5	26,300	38.4	142.5	25,500	105
110	25.3	122.3	25,700	30.6	130.8	24,700	34.0	135.7	24,000	110
115	18.2	109.8	24,100	25.0	121.3	23,200	29.1	127.6	22,500	115
120	5.5	86.0	22,700	17.8	108.5	21,900	23.1	117.4	21,200	120
125				4.1	82.7	20,600	15.2	103.0	20,000	125
130										130
135										135
140										140
145										145

MLC165-1 S-1

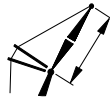
ASME B30.5



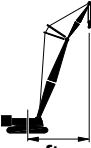
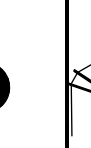
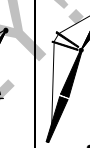
101,400 lb
+
0 lb

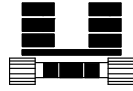
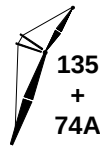


68.9 ft

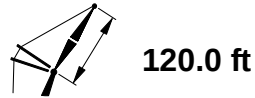
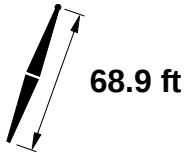


110.0 ft

	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	62.8	170.5	37,800							75
80	59.8	167.7	34,700							80
85	56.7	164.6	32,100							85
90	53.6	161.2	29,800	57.2	163.1	28,200				90
95	50.3	157.2	27,700	54.0	159.7	26,300				95
100	46.8	152.8	25,900	50.7	155.8	24,500				100
105	43.1	147.8	24,200	47.3	151.5	22,900	51.0	153.7	21,700	105
110	39.1	142.1	22,700	43.6	146.5	21,500	47.6	149.4	20,300	110
115	34.8	135.4	21,400	39.7	140.9	20,200	44.0	144.5	19,100	115
120	29.9	127.5	20,100	35.4	134.4	19,100	40.1	139.0	18,000	120
125	24.2	117.8	19,000	30.6	126.7	18,000	35.8	132.6	16,900	125
130	16.7	104.4	17,900	25.0	117.2	17,000	31.1	125.0	16,000	130
135				17.9	104.5	16,000	25.6	115.8	15,100	135
140				4.5	79.3	15,100	18.7	103.5	14,300	140
145							7.0	81.5	13,400	145



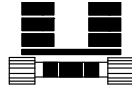
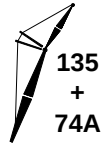
101,400 lb
+
0 lb



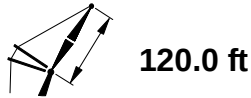
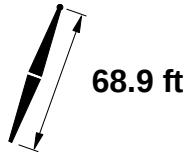
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
45	73.3	190.3	67,200 b							45
50	70.8	188.7	64,500 b							50
55	68.2	186.8	62,000 b	70.7	188.1	60,800 b				55
60	65.6	184.7	56,300	68.1	186.2	54,200 b				60
65	63.0	182.3	50,700	65.5	184.0	48,900	67.4	184.9	47,500	65
70	60.3	179.6	46,100	62.9	181.6	44,400	64.8	182.7	43,100	70
75	57.5	176.6	42,200	60.2	178.9	40,600	62.1	180.2	39,400	75
80	54.6	173.2	38,800	57.4	175.9	37,300	59.4	177.4	36,200	80
85	51.6	169.5	35,900	54.5	172.5	34,500	56.5	174.3	33,500	85
90	48.5	165.3	33,300	51.5	168.7	32,000	53.6	170.8	31,000	90
95	45.2	160.6	31,000	48.4	164.5	29,800	50.6	166.9	28,900	95
100	41.8	155.3	29,000	45.1	159.8	27,800	47.4	162.6	27,000	100
105	38.1	149.4	27,100	41.6	154.5	26,100	44.1	157.7	25,300	105
110	34.0	142.5	25,500	37.9	148.5	24,500	40.6	152.2	23,700	110
115	29.5	134.4	24,000	33.8	141.6	23,000	36.7	145.9	22,300	115
120	24.2	124.5	22,600	29.2	133.4	21,700	32.5	138.7	21,000	120
125	17.4	111.3	21,300	23.9	123.4	20,500	27.8	130.1	19,800	125
130	5.3	86.4	20,100	17.1	110.0	19,300	22.1	119.4	18,700	130
135				4.0	83.1	18,200	14.5	104.3	17,700	135
140										140
145										145
150										150
155										155

MLC165-1 S-1

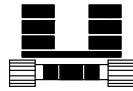
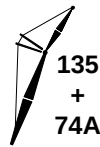
ASME B30.5



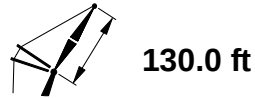
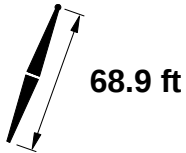
101,400 lb
+
0 lb



	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	62.5	179.1	34,400							80
85	59.8	176.4	31,800							85
90	57.0	173.3	29,500							90
95	54.1	169.9	27,400	57.4	171.8	25,900				95
100	51.1	166.1	25,600	54.5	168.4	24,200				100
105	48.0	161.8	23,900	51.5	164.6	22,600				105
110	44.7	157.0	22,500	48.4	160.4	21,200	51.8	162.5	20,000	110
115	41.2	151.7	21,100	45.1	155.7	19,900	48.7	158.4	18,800	115
120	37.4	145.5	19,900	41.7	150.4	18,800	45.5	153.7	17,700	120
125	33.3	138.5	18,800	37.9	144.4	17,700	42.0	148.5	16,600	125
130	28.6	130.1	17,700	33.9	137.5	16,700	38.3	142.6	15,700	130
135	23.2	119.8	16,700	29.3	129.4	15,800	34.3	135.7	14,800	135
140	16.0	105.8	15,800	24.0	119.4	14,900	29.8	127.7	14,000	140
145				17.2	106.1	14,100	24.5	118.0	13,300	145
150				4.3	79.6	13,300	17.9	105.1	12,500	150
155							6.7	82.1	11,800	155



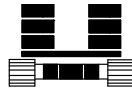
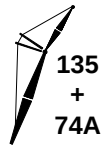
101,400 lb
+
0 lb



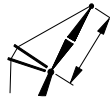
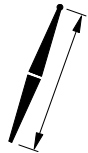
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
45	74.6	200.7	52,100 b							45
50	72.3	199.2	51,000 b							50
55	70.0	197.5	50,000 b							55
60	67.6	195.6	49,000	69.9	196.9	50,300 b				60
65	65.2	193.4	48,000	67.5	194.9	48,700				65
70	62.8	191.0	45,900	65.1	192.7	44,200	66.8	193.7	42,900	70
75	60.3	188.3	42,000	62.7	190.3	40,400	64.4	191.4	39,200	75
80	57.7	185.3	38,600	60.2	187.6	37,100	61.9	188.9	36,000	80
85	55.0	181.9	35,700	57.6	184.5	34,300	59.4	186.1	33,300	85
90	52.3	178.3	33,100	54.9	181.2	31,800	56.8	183.0	30,800	90
95	49.5	174.2	30,800	52.2	177.5	29,600	54.1	179.5	28,700	95
100	46.5	169.7	28,800	49.3	173.4	27,600	51.4	175.7	26,800	100
105	43.4	164.7	27,000	46.4	168.9	25,900	48.5	171.5	25,100	105
110	40.1	159.1	25,300	43.2	163.9	24,300	45.5	166.8	23,500	110
115	36.5	152.7	23,800	39.9	158.2	22,900	42.3	161.6	22,100	115
120	32.6	145.5	22,500	36.3	151.9	21,600	38.9	155.8	20,900	120
125	28.3	137.0	21,200	32.4	144.5	20,300	35.3	149.2	19,700	125
130	23.2	126.6	20,100	28.1	136.0	19,200	31.2	141.6	18,600	130
135	16.7	112.8	19,000	23.0	125.5	18,200	26.7	132.5	17,600	135
140	5.1	86.9	17,900	16.4	111.5	17,200	21.3	121.3	16,700	140
145				3.8	83.4	16,300	14.0	105.5	15,800	145
150										150
155										155
160										160
165										165

MLC165-1 S-1

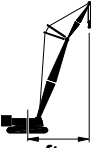
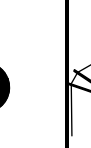
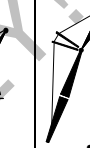
ASME B30.5

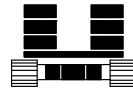


101,400 lb
+
0 lb

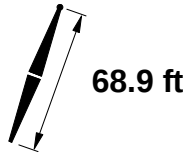


130.0 ft

	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	62.4	187.8	31,500							85
90	59.8	185.1	29,200							90
95	57.2	182.0	27,200							95
100	54.6	178.6	25,400	57.6	180.4	24,000				100
105	51.8	174.9	23,700	55.0	177.1	22,400				105
110	49.0	170.7	22,300	52.2	173.4	21,000				110
115	46.0	166.2	20,900	49.4	169.3	19,700	52.5	171.3	18,500	115
120	42.8	161.0	19,700	46.4	164.8	18,600	49.6	167.3	17,400	120
125	39.5	155.3	18,600	43.3	159.8	17,500	46.7	162.8	16,400	125
130	35.9	148.9	17,600	40.0	154.1	16,500	43.6	157.8	15,500	130
135	31.9	141.4	16,600	36.4	147.8	15,600	40.3	152.2	14,600	135
140	27.5	132.6	15,700	32.5	140.5	14,800	36.7	145.9	13,800	140
145	22.2	121.9	14,900	28.1	131.9	14,000	32.9	138.8	13,100	145
150	15.4	107.2	14,100	23.0	121.5	13,200	28.6	130.3	12,400	150
155				16.5	107.5	12,500	23.5	120.1	11,700	155
160				4.1	80.0	11,800	17.2	106.6	11,100	160
165							6.4	82.7	10,500	165



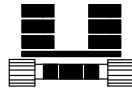
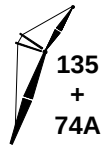
101,400 lb
+
0 lb



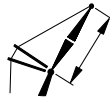
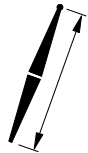
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
50	73.6	209.7	47,800 b							50
55	71.5	208.1	46,900 b							55
60	69.3	206.3	46,000							60
65	67.1	204.3	45,100	69.2	205.7	46,200				65
70	64.9	202.1	43,200	67.0	203.7	43,900				70
75	62.6	199.6	41,400	64.8	201.4	40,100	66.4	202.4	38,900	75
80	60.2	196.9	38,400	62.5	199.0	36,900	64.1	200.1	35,700	80
85	57.9	193.9	35,400	60.1	196.2	34,000	61.8	197.5	33,000	85
90	55.4	190.6	32,900	57.8	193.2	31,500	59.5	194.7	30,600	90
95	52.9	187.0	30,600	55.3	189.9	29,300	57.0	191.6	28,400	95
100	50.3	183.1	28,600	52.8	186.3	27,400	54.6	188.2	26,500	100
105	47.6	178.7	26,700	50.2	182.3	25,600	52.0	184.5	24,800	105
110	44.7	173.9	25,100	47.4	177.9	24,100	49.4	180.4	23,300	110
115	41.7	168.6	23,600	44.6	173.1	22,600	46.6	175.9	21,900	115
120	38.6	162.6	22,300	41.6	167.7	21,300	43.7	170.9	20,600	120
125	35.1	156.0	21,000	38.4	161.8	20,100	40.7	165.4	19,400	125
130	31.4	148.3	19,900	35.0	155.1	19,000	37.4	159.3	18,400	130
135	27.2	139.4	18,800	31.2	147.4	18,000	33.9	152.3	17,400	135
140	22.3	128.6	17,800	27.0	138.4	17,000	30.1	144.3	16,400	140
145	16.1	114.3	16,900	22.1	127.5	16,100	25.7	134.8	15,600	145
150	4.9	87.3	16,000	15.8	112.9	15,300	20.5	123.1	14,800	150
155				3.7	83.8	14,500	13.4	106.7	14,000	155
160										160
165										165
170										170
175										175

MLC165-1 S-1

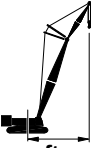
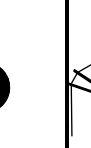
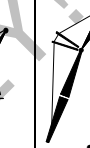
ASME B30.5

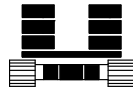
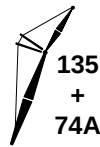


101,400 lb
+
0 lb

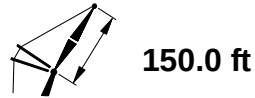
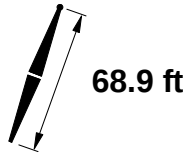


140.0 ft

	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	62.2	196.5	28,900							90
95	59.8	193.7	26,900							95
100	57.4	190.7	25,100							100
105	55.0	187.3	23,400	57.8	189.1	22,100				105
110	52.4	183.7	22,000	55.3	185.8	20,700				110
115	49.8	179.6	20,600	52.8	182.2	19,400				115
120	47.1	175.2	19,400	50.2	178.2	18,200				120
125	44.2	170.3	18,300	47.5	173.8	17,200	50.4	176.1	16,100	125
130	41.2	164.9	17,300	44.6	169.0	16,200	47.7	171.8	15,200	130
135	38.0	158.8	16,300	41.6	163.7	15,300	44.9	167.0	14,300	135
140	34.5	152.0	15,500	38.4	157.7	14,500	41.9	161.7	13,500	140
145	30.7	144.2	14,600	35.0	151.0	13,700	38.8	155.8	12,800	145
150	26.5	135.0	13,900	31.3	143.3	13,000	35.4	149.2	12,100	150
155	21.4	123.8	13,100	27.1	134.4	12,300	31.6	141.6	11,400	155
160	14.8	108.5	12,500	22.2	123.5	11,600	27.5	132.8	10,800	160
165				15.9	109.0	11,000	22.7	122.1	10,300	165
170				4.0	80.4	10,400	16.6	108.1	9,700	170
175							6.2	83.3	9,100	175



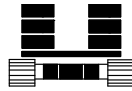
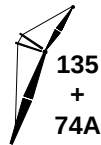
101,400 lb
+
0 lb



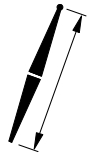
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
50	74.7	220.1	44,800 b							50
55	72.8	218.6	43,900 b							55
60	70.7	217.0	43,100							60
65	68.7	215.1	41,600	70.6	216.3	43,100				65
70	66.6	213.1	39,900	68.6	214.5	41,600				70
75	64.5	210.8	38,200	66.5	212.4	40,000				75
80	62.4	208.3	36,700	64.4	210.1	36,700	65.9	211.1	35,600	80
85	60.2	205.6	35,100	62.3	207.6	33,900	63.8	208.8	32,900	85
90	58.0	202.6	32,800	60.1	204.9	31,400	61.7	206.2	30,400	90
95	55.7	199.3	30,500	57.9	201.9	29,200	59.5	203.4	28,300	95
100	53.4	195.8	28,500	55.6	198.6	27,300	57.2	200.3	26,400	100
105	51.0	191.9	26,700	53.3	195.0	25,500	54.9	196.9	24,700	105
110	48.5	187.6	25,000	50.8	191.1	24,000	52.6	193.3	23,200	110
115	45.8	183.0	23,500	48.3	186.9	22,500	50.1	189.3	21,800	115
120	43.1	177.9	22,200	45.7	182.2	21,200	47.6	184.9	20,500	120
125	40.3	172.3	20,900	43.0	177.1	20,000	45.0	180.1	19,300	125
130	37.2	166.1	19,800	40.1	171.5	18,900	42.2	174.9	18,300	130
135	33.9	159.1	18,800	37.1	165.2	17,900	39.3	169.1	17,300	135
140	30.3	151.1	17,800	33.8	158.2	17,000	36.1	162.6	16,400	140
145	26.3	141.8	16,900	30.1	150.1	16,100	32.7	155.3	15,500	145
150	21.6	130.5	16,000	26.1	140.8	15,300	29.0	146.9	14,700	150
155	15.6	115.7	15,200	21.3	129.4	14,500	24.8	137.1	14,000	155
160	4.7	87.7	14,400	15.3	114.3	13,800	19.8	124.9	13,300	160
165				3.5	84.1	13,100	13.0	107.9	12,600	165
170										170
175										175
180										180
185										185

MLC165-1 S-1

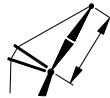
ASME B30.5



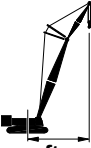
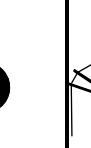
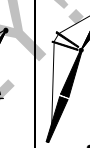
101,400 lb
+
0 lb

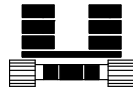
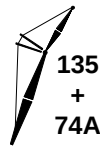


68.9 ft

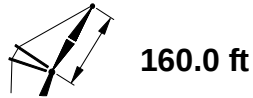
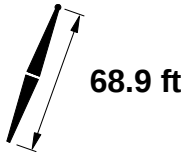


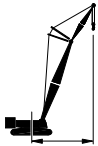
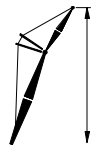
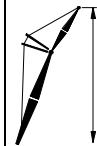
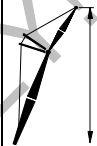
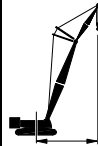
150.0 ft

	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	62.0	205.2	26,800							95
100	59.9	202.4	25,000							100
105	57.6	199.3	23,300							105
110	55.3	196.0	21,900	57.9	197.8	20,600				110
115	53.0	192.4	20,500	55.6	194.5	19,300				115
120	50.5	188.5	19,300	53.3	190.9	18,100				120
125	48.0	184.2	18,200	50.9	187.0	17,100				125
130	45.4	179.5	17,200	48.4	182.8	16,100	51.1	184.9	15,100	130
135	42.6	174.3	16,300	45.8	178.1	15,200	48.6	180.7	14,200	135
140	39.7	168.6	15,400	43.0	173.0	14,400	46.0	176.1	13,400	140
145	36.7	162.2	14,600	40.1	167.4	13,600	43.3	171.0	12,700	145
150	33.3	155.1	13,800	37.1	161.1	12,900	40.4	165.5	12,000	150
155	29.7	146.9	13,100	33.8	154.1	12,200	37.4	159.3	11,400	155
160	25.5	137.4	12,400	30.2	146.1	11,600	34.1	152.3	10,800	160
165	20.7	125.6	11,800	26.1	136.7	11,000	30.5	144.4	10,200	165
170	14.3	109.8	11,200	21.4	125.4	10,400	26.6	135.2	9,700	170
175				15.3	110.3	9,900	21.9	124.1	9,200	175
180				3.8	80.7	9,300	16.0	109.5	8,700	180
185							6.0	83.8	8,200	185



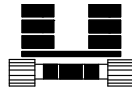
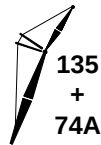
101,400 lb
+
0 lb



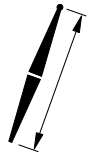
	 87°			 83°			 80°			
 ft	 °	 ft	 lb	 °	 ft	 lb	 °	 ft	 lb	 ft
55	73.9	229.1	40,900 b							55
60	72.0	227.5	39,800							60
65	70.1	225.8	38,100							65
70	68.2	223.9	36,500	70.0	225.2	38,000				70
75	66.2	221.8	34,900	68.1	223.3	36,500				75
80	64.3	219.5	33,300	66.1	221.1	34,900	67.5	222.0	35,300	80
85	62.3	217.0	31,800	64.2	218.8	33,400	65.6	219.8	32,600	85
90	60.2	214.2	30,400	62.2	216.3	31,200	63.6	217.5	30,200	90
95	58.1	211.3	29,000	60.1	213.5	29,000	61.6	214.9	28,000	95
100	56.0	208.0	27,700	58.0	210.5	27,000	59.5	212.0	26,100	100
105	53.8	204.5	26,400	55.9	207.3	25,300	57.4	209.0	24,400	105
110	51.6	200.7	24,800	53.7	203.8	23,700	55.3	205.7	22,900	110
115	49.2	196.6	23,300	51.5	199.9	22,300	53.1	202.0	21,500	115
120	46.8	192.1	22,000	49.1	195.8	21,000	50.8	198.1	20,200	120
125	44.3	187.2	20,700	46.7	191.3	19,800	48.4	193.9	19,100	125
130	41.7	181.8	19,600	44.2	186.4	18,700	46.0	189.2	18,000	130
135	38.9	175.9	18,500	41.6	181.0	17,700	43.5	184.2	17,000	135
140	36.0	169.4	17,600	38.8	175.0	16,700	40.8	178.7	16,100	140
145	32.8	162.1	16,700	35.8	168.5	15,900	38.0	172.6	15,300	145
150	29.3	153.8	15,800	32.7	161.1	15,100	34.9	165.8	14,500	150
155	25.4	144.1	15,000	29.2	152.8	14,300	31.7	158.2	13,800	155
160	20.9	132.4	14,300	25.3	143.1	13,600	28.1	149.5	13,100	160
165	15.1	117.0	13,600	20.7	131.3	12,900	24.0	139.2	12,400	165
170	4.6	88.1	12,900	14.8	115.6	12,300	19.1	126.6	11,800	170
175				3.4	84.4	11,600	12.6	109.0	11,200	175
180										180
185										185
190										190
195										195

MLC165-1 S-1

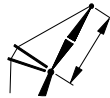
ASME B30.5



101,400 lb
+
0 lb

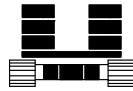
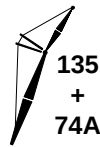


68.9 ft

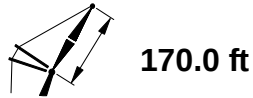
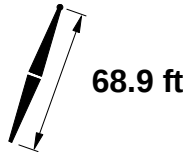


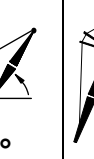
160.0 ft

	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	61.9	213.8	24,600							100
105	59.9	211.0	23,000							105
110	57.8	208.0	21,600							110
115	55.6	204.7	20,200							115
120	53.4	201.2	19,000	55.9	203.2	17,800				120
125	51.2	197.3	17,900	53.7	199.7	16,800				125
130	48.8	193.1	16,900	51.5	195.8	15,800				130
135	46.4	188.5	16,000	49.1	191.7	14,900	51.7	193.7	13,900	135
140	43.9	183.6	15,100	46.7	187.2	14,100	49.4	189.6	13,100	140
145	41.2	178.1	14,300	44.2	182.3	13,300	47.0	185.1	12,400	145
150	38.4	172.1	13,500	41.6	176.9	12,600	44.5	180.3	11,700	150
155	35.5	165.5	12,800	38.8	171.0	12,000	41.9	174.9	11,100	155
160	32.2	158.0	12,200	35.9	164.4	11,300	39.1	169.1	10,500	160
165	28.7	149.5	11,600	32.7	157.1	10,700	36.2	162.6	9,900	165
170	24.7	139.6	11,000	29.2	148.7	10,200	33.0	155.3	9,400	170
175	20.0	127.4	10,400	25.3	139.0	9,700	29.6	147.1	8,900	175
180	13.9	111.0	9,900	20.7	127.2	9,200	25.7	137.6	8,400	180
185				14.8	111.6	8,700	21.2	126.0	8,000	185
190				3.7	81.0	8,200	15.5	110.9	7,500	190
195							5.8	84.3	7,100	195



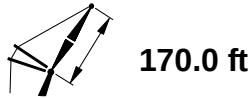
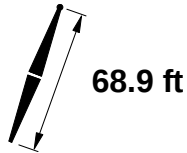
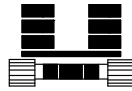
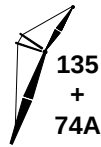
101,400 lb
+
0 lb



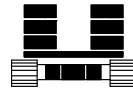
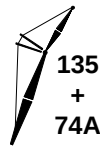
	87°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
55	74.8	239.5	38,000 b							55
60	73.1	238.0	36,700							60
65	71.3	236.4	35,200							65
70	69.5	234.6	33,600							70
75	67.7	232.7	32,100	69.4	234.0	33,500				75
80	65.9	230.5	30,600	67.6	232.0	32,100				80
85	64.0	228.2	29,300	65.8	229.9	30,700	67.1	230.8	31,500	85
90	62.1	225.7	27,900	63.9	227.5	29,200	65.3	228.6	29,900	90
95	60.2	222.9	26,600	62.0	225.0	27,900	63.4	226.1	27,800	95
100	58.2	219.9	25,300	60.1	222.2	26,600	61.5	223.5	25,900	100
105	56.2	216.7	24,000	58.2	219.2	25,100	59.6	220.7	24,200	105
110	54.2	213.2	22,900	56.1	216.0	23,500	57.6	217.7	22,700	110
115	52.1	209.5	21,700	54.1	212.5	22,100	55.6	214.4	21,300	115
120	49.9	205.4	20,600	52.0	208.7	20,800	53.5	210.8	20,000	120
125	47.7	201.1	19,600	49.8	204.7	19,600	51.4	206.9	18,900	125
130	45.3	196.3	18,700	47.6	200.3	18,500	49.2	202.8	17,800	130
135	42.9	191.2	17,700	45.2	195.5	17,500	46.9	198.3	16,800	135
140	40.4	185.5	16,800	42.8	190.3	16,500	44.5	193.4	15,900	140
145	37.7	179.4	15,900	40.3	184.7	15,700	42.1	188.1	15,100	145
150	34.9	172.6	15,200	37.6	178.5	14,900	39.5	182.3	14,300	150
155	31.8	165.0	14,200	34.7	171.7	14,100	36.8	175.9	13,600	155
160	28.4	156.3	13,200	31.7	164.0	13,400	33.9	168.9	12,900	160
165	24.7	146.3	12,400	28.3	155.3	12,700	30.7	161.0	12,200	165
170	20.3	134.2	11,600	24.5	145.3	12,100	27.2	151.9	11,600	170
175	14.6	118.3	10,800	20.0	133.0	11,500	23.3	141.3	11,000	175
180	4.4	88.5	10,200	14.3	116.9	10,800	18.6	128.3	10,500	180
185				3.3	84.7	10,300	12.2	110.1	10,000	185
190										190
195										195
200										200
205										205

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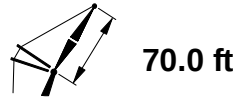
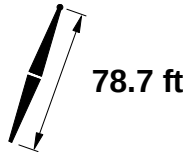
ASME B30.5

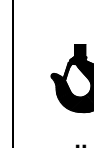
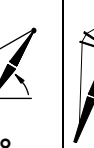
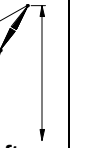


	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105	61.8	222.5	22,800							105
110	59.9	219.7	21,300							110
115	57.9	216.7	20,000							115
120	55.9	213.4	18,800							120
125	53.8	209.9	17,700	56.2	211.9	16,500				125
130	51.7	206.1	16,700	54.1	208.4	15,600				130
135	49.5	202.0	15,700	52.0	204.6	14,700				135
140	47.3	197.6	14,900	49.8	200.6	13,900	52.2	202.5	12,900	140
145	44.9	192.7	14,100	47.6	196.2	13,100	50.0	198.5	12,100	145
150	42.5	187.5	13,300	45.3	191.4	12,400	47.8	194.1	11,500	150
155	39.9	181.8	12,600	42.8	186.3	11,700	45.5	189.4	10,800	155
160	37.2	175.5	12,000	40.3	180.6	11,100	43.1	184.3	10,300	160
165	34.4	168.6	11,400	37.6	174.4	10,500	40.5	178.7	9,700	165
170	31.3	160.9	10,800	34.8	167.6	10,000	37.9	172.6	9,200	170
175	27.8	152.0	10,300	31.7	160.0	9,500	35.0	165.8	8,700	175
180	24.0	141.7	9,700	28.3	151.3	9,000	32.0	158.3	8,200	180
185	19.4	129.2	9,200	24.5	141.2	8,500	28.7	149.7	7,800	185
190	13.5	112.2	8,800	20.1	129.0	8,100	24.9	139.8	7,400	190
195				14.4	112.9	7,600	20.6	127.9	7,000	195
200				3.6	81.3	7,200	15.0	112.3	6,600	200
205							5.6	84.8	6,200	205



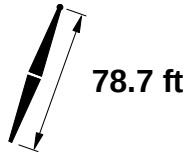
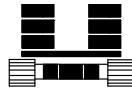
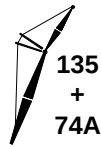
101,400 lb
+
0 lb



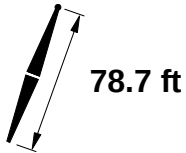
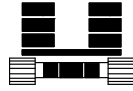
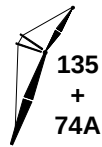
	87°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
30	74.3	152.6	110,100 d							30
32	72.6	152.0	110,100 d							32
34	70.8	151.3	110,100 d							34
36	69.1	150.6	110,100 c							36
38	67.3	149.8	104,300 c							38
40	65.6	148.9	97,200 c	70.4	150.5	93,600 d				40
45	61.0	146.4	83,000 b	66.0	148.5	79,900 c				45
50	56.2	143.4	72,300 b	61.4	146.0	69,500 b	65.1	147.4	67,400 c	50
55	51.1	139.7	63,800 b	56.6	143.0	61,400 b	60.5	144.8	59,600 b	55
60	45.6	135.2	57,100	51.6	139.4	54,900 b	55.7	141.7	53,200 b	60
65	39.6	129.8	51,500	46.1	135.0	49,500	50.6	137.9	48,000 b	65
70	32.6	122.9	46,800	40.1	129.7	45,000	45.1	133.4	43,700	70
75	23.9	113.6	42,800	33.3	123.0	41,200	38.9	127.8	40,000	75
80	9.8	97.1	39,200	24.9	114.0	37,900	31.9	120.8	36,700	80
85				11.8	98.9	34,900	23.0	111.2	33,900	85
90							7.2	92.6	31,300	90
95										95
100										100
105										105

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ASME B30.5



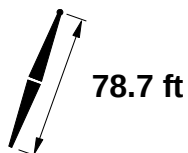
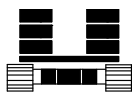
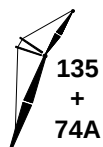
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
30										30
32										32
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60	62.1	144.0	50,500 b							60
65	57.3	141.1	45,600 b							65
70	52.3	137.6	41,400 b							70
75	46.9	133.3	37,900	53.8	136.4	35,800 b				75
80	41.1	128.1	34,900	48.6	132.4	33,000 b				80
85	34.4	121.7	32,200	42.9	127.6	30,400	50.0	130.7	28,700 b	85
90	26.2	113.1	29,800	36.5	121.5	28,200	44.4	126.1	26,600	90
95	14.4	99.6	27,700	28.9	113.7	26,300	38.2	120.4	24,800	95
100				18.7	102.4	24,400	31.0	113.1	23,100	100
105							21.7	103.0	21,600	105



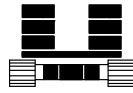
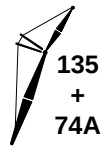
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
32	74.8	162.4	100,600 d							32
34	73.3	161.8	100,500 d							34
36	71.8	161.2	100,500 c							36
38	70.3	160.5	100,500 c							38
40	68.8	159.8	97,100 c							40
45	64.9	157.6	82,800 b	69.1	159.3	79,600 c				45
50	60.8	155.1	72,100 b	65.2	157.2	69,200 b				50
55	56.7	152.0	63,700 b	61.2	154.7	61,200 b	64.5	156.1	59,300 b	55
60	52.3	148.5	56,900	57.1	151.7	54,600 b	60.5	153.4	53,000 b	60
65	47.6	144.3	51,300	52.7	148.2	49,300	56.2	150.4	47,800 b	65
70	42.5	139.3	46,700	48.0	144.0	44,800	51.8	146.7	43,400	70
75	36.9	133.2	42,700	43.0	139.1	41,000	47.1	142.5	39,700	75
80	30.4	125.7	39,300	37.5	133.2	37,700	42.0	137.4	36,500	80
85	22.4	115.7	36,300	31.1	125.9	34,900	36.3	131.2	33,800	85
90	9.2	98.0	33,600	23.2	116.1	32,300	29.8	123.6	31,300	90
95				11.1	99.9	30,000	21.5	113.1	29,100	95
100							6.7	93.2	27,100	100
105										105
110										110
115										115

MLC165-1 S-1

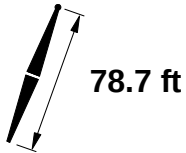
ASME B30.5

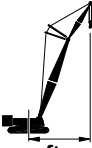
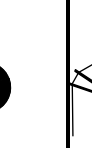


	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
32										32
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65	61.8	152.7	45,200 b							65
70	57.7	149.8	41,100 b							70
75	53.3	146.3	37,600							75
80	48.7	142.3	34,600	54.6	145.2	32,600 b				80
85	43.8	137.5	31,900	50.1	141.3	30,100				85
90	38.3	131.7	29,600	45.3	136.8	27,900	51.3	139.5	26,300	90
95	32.1	124.7	27,600	40.0	131.3	26,000	46.5	135.2	24,400	95
100	24.5	115.4	25,700	34.0	124.7	24,300	41.4	130.0	22,800	100
105	13.5	100.8	24,000	27.0	116.2	22,700	35.6	123.7	21,300	105
110				17.5	104.0	21,200	28.9	115.8	20,000	110
115							20.3	104.9	18,700	115



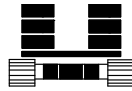
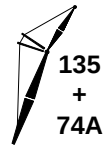
101,400 lb
+
0 lb



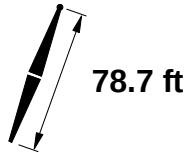
	87°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
36	73.9	171.7	90,900 d							36
38	72.6	171.1	90,400 c							38
40	71.2	170.4	88,800 c							40
45	67.8	168.6	82,700 b							45
50	64.3	166.3	71,900 b	68.1	168.1	69,100 b				50
55	60.8	163.7	63,500 b	64.7	165.9	61,000 b	67.5	167.0	59,100 b	55
60	57.0	160.7	56,800	61.1	163.4	54,500 b	64.0	164.7	52,800 b	60
65	53.2	157.2	51,200	57.4	160.4	49,100	60.4	162.1	47,600 b	65
70	49.1	153.2	46,600	53.5	156.9	44,700	56.7	159.1	43,300	70
75	44.7	148.5	42,600	49.5	153.0	40,900	52.8	155.5	39,600	75
80	40.0	143.0	39,200	45.1	148.3	37,600	48.7	151.4	36,400	80
85	34.7	136.5	36,300	40.4	142.9	34,800	44.3	146.7	33,700	85
90	28.7	128.4	33,700	35.2	136.5	32,300	39.5	141.1	31,200	90
95	21.1	117.6	31,300	29.3	128.6	30,000	34.2	134.4	29,100	95
100	8.7	98.8	29,200	21.9	118.1	28,000	28.0	126.1	27,100	100
105				10.4	100.9	26,200	20.2	115.0	25,400	105
110							6.3	93.7	23,700	110
115										115
120										120
125										125

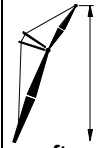
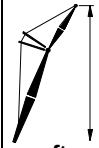
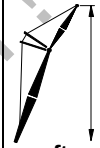
MLC165-1 S-1

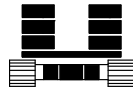
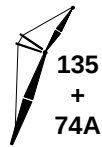
ASME B30.5



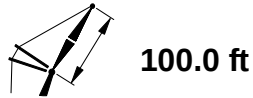
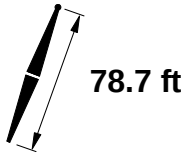
101,400 lb
+
0 lb



	75°			70°			65°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70	61.6	161.4	40,900 b							70
75	57.9	158.4	37,400 b							75
80	54.1	155.1	34,400							80
85	50.1	151.2	31,800	55.3	153.9	29,900				85
90	45.8	146.7	29,500	51.3	150.1	27,800				90
95	41.1	141.4	27,400	47.1	145.8	25,800	52.3	148.3	24,200	95
100	36.0	135.1	25,600	42.6	140.8	24,100	48.2	144.2	22,600	100
105	30.2	127.4	24,000	37.6	134.8	22,600	43.7	139.3	21,200	105
110	23.1	117.5	22,500	32.0	127.7	21,100	38.9	133.7	19,800	110
115	12.7	102.0	21,100	25.4	118.5	19,900	33.5	126.8	18,600	115
120				16.5	105.5	18,600	27.2	118.3	17,500	120
125							19.1	106.6	16,500	125



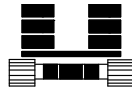
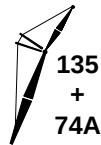
101,400 lb
+
0 lb



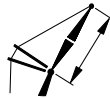
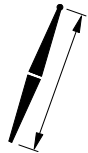
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
38	74.4	181.5	82,100 c							38
40	73.2	180.9	80,700 c							40
45	70.1	179.3	77,000 b							45
50	67.1	177.3	71,700 b	70.4	178.8	68,800 b				50
55	63.9	175.0	63,300 b	67.4	176.9	60,700 b				55
60	60.7	172.4	56,500	64.2	174.6	54,200 b	66.8	175.7	52,500 b	60
65	57.3	169.4	51,000	61.0	172.0	48,900	63.6	173.4	47,300 b	65
70	53.9	166.0	46,400	57.7	169.1	44,400	60.4	170.8	43,000	70
75	50.2	162.1	42,400	54.2	165.7	40,600	57.0	167.7	39,300	75
80	46.4	157.6	39,000	50.6	161.8	37,400	53.5	164.3	36,100	80
85	42.3	152.5	36,100	46.8	157.4	34,500	49.9	160.3	33,400	85
90	37.8	146.6	33,500	42.7	152.4	32,100	46.0	155.8	31,000	90
95	32.9	139.5	31,200	38.3	146.5	29,800	41.9	150.6	28,800	95
100	27.2	130.9	29,100	33.4	139.6	27,900	37.4	144.6	26,900	100
105	20.0	119.4	27,300	27.7	131.1	26,100	32.4	137.4	25,200	105
110	8.2	99.5	25,500	20.8	120.0	24,500	26.6	128.6	23,600	110
115				9.9	101.8	22,900	19.2	116.7	22,200	115
120							6.0	94.3	20,800	120
125										125
130										130
135										135

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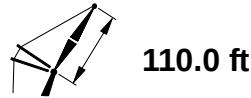
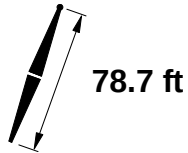
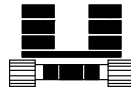
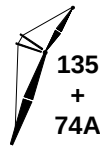
101,400 lb
+
0 lb

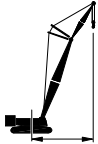
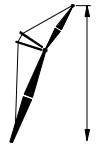
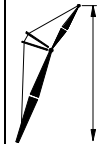
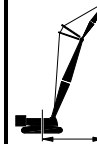


	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75	61.5	170.0	37,100							75
80	58.1	167.1	34,100							80
85	54.7	163.8	31,500							85
90	51.1	160.0	29,200	55.7	162.6	27,400				90
95	47.3	155.7	27,200	52.2	158.9	25,500				95
100	43.3	150.7	25,300	48.5	154.8	23,800				100
105	38.9	145.0	23,700	44.5	150.0	22,200	49.4	153.1	20,800	105
110	34.1	138.3	22,200	40.3	144.6	20,900	45.6	148.5	19,500	110
115	28.6	130.1	20,900	35.6	138.2	19,600	41.4	143.2	18,300	115
120	21.9	119.5	19,700	30.4	130.4	18,400	36.8	137.1	17,200	120
125	12.1	103.1	18,500	24.1	120.7	17,400	31.8	129.7	16,200	125
130				15.6	106.9	16,300	25.8	120.6	15,300	130
135							18.1	108.3	14,400	135

MLC165-1 S-1

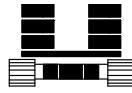
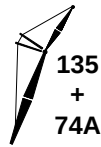
ASME B30.5



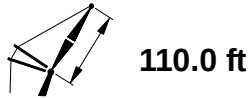
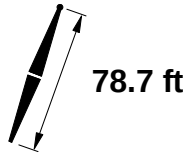
	 87°			 83°			 80°			
 ft	 °	 ft	 lb	 °	 ft	 lb	 °	 ft	 lb	 ft
40	74.7	191.3	74,800 c							40
45	72.0	189.8	72,000 b							45
50	69.3	188.1	69,300 b							50
55	66.4	186.0	63,200 b	69.5	187.6	60,600 b				55
60	63.6	183.7	56,500	66.7	185.6	54,100 b				60
65	60.6	181.1	50,900	63.8	183.3	48,800	66.2	184.5	47,200 b	65
70	57.6	178.1	46,300	60.9	180.7	44,400	63.3	182.1	42,900	70
75	54.4	174.7	42,400	57.9	177.7	40,600	60.3	179.4	39,200	75
80	51.2	170.9	39,000	54.7	174.4	37,300	57.3	176.4	36,100	80
85	47.7	166.6	36,100	51.5	170.6	34,500	54.1	173.0	33,300	85
90	44.1	161.8	33,500	48.1	166.4	32,000	50.9	169.2	30,900	90
95	40.2	156.3	31,200	44.5	161.6	29,800	47.4	164.8	28,800	95
100	36.0	149.9	29,200	40.6	156.2	27,900	43.8	159.9	26,900	100
105	31.3	142.4	27,300	36.4	149.9	26,100	39.9	154.3	25,200	105
110	25.9	133.2	25,700	31.8	142.5	24,500	35.6	147.9	23,700	110
115	19.1	121.1	24,100	26.4	133.5	23,100	30.8	140.2	22,300	115
120	7.8	100.2	22,700	19.8	121.8	21,700	25.3	130.9	21,000	120
125				9.4	102.6	20,500	18.3	118.3	19,800	125
130							5.7	94.8	18,600	130
135										135
140										140
145										145

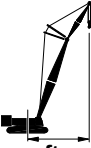
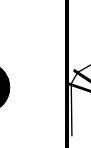
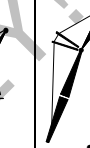
MLC165-1 S-1

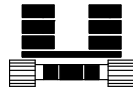
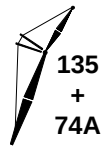
ASME B30.5



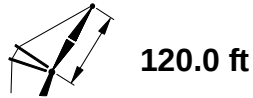
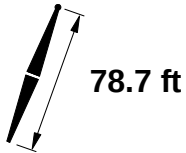
101,400 lb
+
0 lb



	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	61.3	178.7	34,000							80
85	58.3	175.8	31,400							85
90	55.2	172.5	29,100							90
95	52.0	168.8	27,100	56.1	171.3	25,500				95
100	48.6	164.6	25,300	52.9	167.7	23,700				100
105	45.0	160.0	23,700	49.6	163.7	22,200				105
110	41.2	154.6	22,200	46.1	159.2	20,800	50.5	161.9	19,500	110
115	37.1	148.5	20,900	42.4	154.0	19,600	47.0	157.6	18,300	115
120	32.5	141.3	19,700	38.3	148.1	18,400	43.3	152.6	17,200	120
125	27.3	132.5	18,600	33.9	141.3	17,400	39.4	146.9	16,200	125
130	20.9	121.3	17,500	28.9	133.1	16,400	35.1	140.3	15,300	130
135	11.5	104.1	16,600	22.9	122.8	15,500	30.2	132.5	14,400	135
140				14.9	108.2	14,600	24.6	122.9	13,600	140
145							17.3	109.8	12,900	145



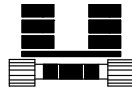
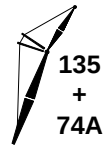
101,400 lb
+
0 lb



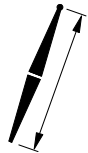
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
45	73.6	200.3	66,600 b							45
50	71.1	198.7	64,100 b							50
55	68.5	196.9	61,500 b							55
60	65.9	194.8	56,200	68.7	196.4	53,900 b				60
65	63.3	192.4	50,700	66.2	194.3	48,500				65
70	60.6	189.7	46,100	63.5	192.0	44,100	65.7	193.2	42,600	70
75	57.8	186.7	42,100	60.8	189.3	40,300	63.0	190.8	38,900	75
80	54.9	183.4	38,800	58.0	186.4	37,100	60.3	188.1	35,800	80
85	51.9	179.7	35,800	55.2	183.1	34,200	57.5	185.1	33,100	85
90	48.8	175.6	33,300	52.2	179.4	31,800	54.6	181.7	30,700	90
95	45.6	170.9	31,000	49.1	175.3	29,600	51.7	178.0	28,500	95
100	42.1	165.7	28,900	45.9	170.8	27,600	48.5	173.8	26,600	100
105	38.5	159.8	27,100	42.5	165.6	25,900	45.3	169.1	24,900	105
110	34.4	153.1	25,500	38.8	159.8	24,300	41.8	163.8	23,400	110
115	30.0	145.1	24,000	34.8	153.1	22,900	38.1	157.9	22,000	115
120	24.8	135.5	22,600	30.4	145.3	21,500	34.0	151.0	20,800	120
125	18.2	122.8	21,300	25.3	135.8	20,300	29.5	142.9	19,600	125
130	7.5	100.9	20,100	18.9	123.5	19,200	24.2	133.0	18,500	130
135				9.0	103.4	18,100	17.5	119.9	17,500	135
140							5.5	95.3	16,500	140
145										145
150										150
155										155

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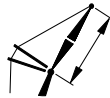
ASME B30.5



101,400 lb
+
0 lb

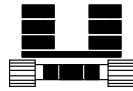
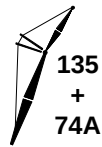


78.7 ft

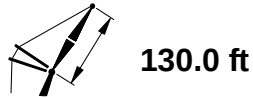
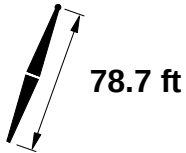


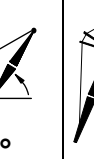
120.0 ft

	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	61.2	187.3	31,100							85
90	58.5	184.4	28,800							90
95	55.6	181.2	26,800							95
100	52.7	177.6	25,000	56.5	179.9	23,400				100
105	49.6	173.5	23,400	53.6	176.4	21,900				105
110	46.4	169.0	22,000	50.5	172.5	20,500				110
115	43.0	164.0	20,600	47.4	168.2	19,300	51.3	170.8	17,900	115
120	39.4	158.3	19,400	44.0	163.3	18,100	48.2	166.5	16,900	120
125	35.4	151.7	18,300	40.5	157.8	17,100	44.9	161.8	15,900	125
130	31.1	144.1	17,300	36.6	151.5	16,100	41.4	156.5	15,000	130
135	26.1	134.9	16,400	32.4	144.3	15,200	37.6	150.4	14,100	135
140	20.0	123.1	15,500	27.7	135.6	14,400	33.5	143.4	13,400	140
145	11.0	105.1	14,600	22.0	124.8	13,600	28.9	135.2	12,600	145
150				14.3	109.5	12,900	23.5	125.0	11,900	150
155							16.6	111.3	11,300	155



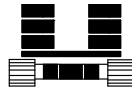
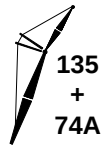
101,400 lb
+
0 lb



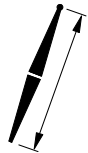
	87°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
45	74.9	210.7	51,300 b							45
50	72.6	209.2	50,300 b							50
55	70.2	207.6	49,300 b							55
60	67.9	205.6	48,300	70.4	207.1	49,700 b				60
65	65.5	203.5	47,400	68.1	205.2	48,300				65
70	63.0	201.1	45,900	65.7	203.1	43,900	67.6	204.1	42,400	70
75	60.5	198.4	41,900	63.3	200.7	40,100	65.2	201.9	38,700	75
80	58.0	195.4	38,600	60.8	198.0	36,900	62.8	199.5	35,600	80
85	55.3	192.1	35,600	58.2	195.1	34,000	60.3	196.8	32,800	85
90	52.6	188.5	33,100	55.6	191.8	31,600	57.7	193.7	30,400	90
95	49.8	184.5	30,800	52.9	188.2	29,400	55.1	190.4	28,300	95
100	46.8	180.0	28,800	50.0	184.2	27,400	52.3	186.7	26,400	100
105	43.7	175.0	27,000	47.1	179.8	25,700	49.5	182.7	24,800	105
110	40.4	169.5	25,300	44.0	174.9	24,100	46.5	178.2	23,200	110
115	36.9	163.2	23,800	40.7	169.4	22,700	43.4	173.2	21,800	115
120	33.0	156.1	22,500	37.2	163.2	21,400	40.1	167.6	20,600	120
125	28.8	147.7	21,200	33.4	156.2	20,200	36.5	161.2	19,400	125
130	23.8	137.6	20,100	29.2	147.9	19,100	32.7	154.0	18,300	130
135	17.5	124.3	19,000	24.3	138.0	18,100	28.3	145.5	17,400	135
140	7.2	101.5	17,900	18.2	125.1	17,100	23.2	135.1	16,400	140
145				8.7	104.2	16,200	16.8	121.4	15,600	145
150							5.3	95.7	14,700	150
155										155
160										160
165										165

MLC165-1 S-1

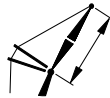
ASME B30.5



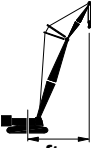
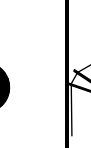
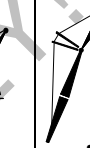
101,400 lb
+
0 lb

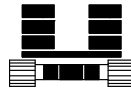
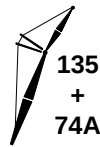


78.7 ft

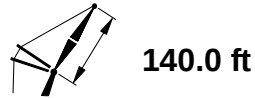
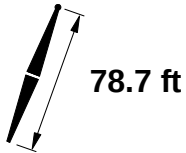


130.0 ft

	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	61.1	196.0	28,600							90
95	58.6	193.1	26,600							95
100	56.0	189.9	24,800							100
105	53.3	186.3	23,200	56.7	188.6	21,700				105
110	50.4	182.4	21,700	54.1	185.2	20,300				110
115	47.5	178.1	20,400	51.3	181.4	19,000				115
120	44.5	173.2	19,200	48.4	177.1	17,900	52.0	179.6	16,600	120
125	41.2	167.8	18,100	45.4	172.5	16,900	49.2	175.5	15,600	125
130	37.8	161.8	17,100	42.2	167.3	15,900	46.2	170.9	14,700	130
135	34.0	154.8	16,200	38.8	161.4	15,000	43.0	165.8	13,900	135
140	29.8	146.8	15,300	35.2	154.8	14,200	39.7	160.1	13,100	140
145	25.0	137.2	14,500	31.1	147.1	13,500	36.1	153.7	12,400	145
150	19.2	124.9	13,800	26.5	138.0	12,800	32.2	146.4	11,800	150
155	10.6	106.0	13,000	21.1	126.7	12,100	27.8	137.7	11,100	155
160				13.7	110.7	11,400	22.6	127.0	10,500	160
165							15.9	112.7	10,000	165



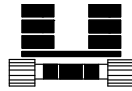
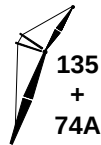
101,400 lb
+
0 lb



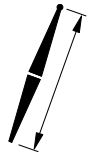
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
50	73.8	219.7	47,100 b							50
55	71.7	218.1	46,200 b							55
60	69.5	216.4	45,400							60
65	67.3	214.4	44,600	69.7	215.9	45,800				65
70	65.1	212.2	43,100	67.5	214.0	43,600				70
75	62.8	209.7	41,400	65.3	211.8	39,800	67.1	212.8	38,400	75
80	60.5	207.0	38,300	63.0	209.3	36,600	64.9	210.6	35,300	80
85	58.1	204.1	35,400	60.7	206.7	33,800	62.6	208.1	32,500	85
90	55.7	200.8	32,800	58.3	203.7	31,300	60.3	205.4	30,200	90
95	53.1	197.2	30,600	55.9	200.5	29,100	57.9	202.4	28,000	95
100	50.5	193.3	28,500	53.4	196.9	27,200	55.4	199.1	26,200	100
105	47.8	189.0	26,700	50.8	193.0	25,400	52.9	195.5	24,500	105
110	45.0	184.2	25,100	48.1	188.8	23,900	50.3	191.5	22,900	110
115	42.0	179.0	23,600	45.3	184.1	22,400	47.6	187.2	21,600	115
120	38.9	173.1	22,200	42.3	178.8	21,100	44.7	182.4	20,300	120
125	35.5	166.5	21,000	39.2	173.0	19,900	41.8	177.1	19,200	125
130	31.8	159.0	19,800	35.8	166.5	18,800	38.6	171.1	18,100	130
135	27.7	150.3	18,800	32.2	159.1	17,800	35.2	164.5	17,100	135
140	22.9	139.7	17,800	28.1	150.5	16,900	31.4	156.9	16,200	140
145	16.9	125.8	16,900	23.4	140.1	16,000	27.3	148.0	15,400	145
150	6.9	102.1	16,000	17.5	126.7	15,200	22.4	137.2	14,600	150
155				8.4	104.9	14,400	16.2	122.9	13,800	155
160							5.1	96.2	13,000	160
165										165
170										170
175										175

MLC165-1 S-1

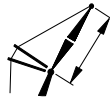
ASME B30.5



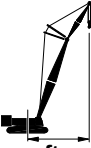
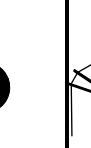
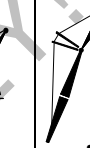
101,400 lb
+
0 lb

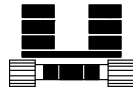
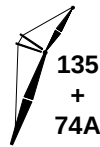


78.7 ft

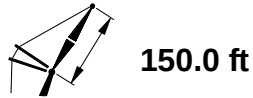
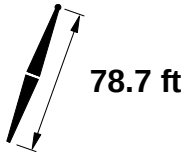


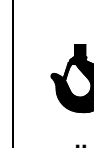
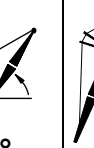
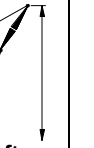
140.0 ft

	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	61.0	204.7	26,300							95
100	58.7	201.8	24,500							100
105	56.2	198.6	22,900							105
110	53.8	195.1	21,400	57.0	197.3	20,000				110
115	51.2	191.2	20,100	54.5	193.9	18,700				115
120	48.5	187.0	18,900	51.9	190.2	17,600				120
125	45.7	182.4	17,800	49.3	186.1	16,600	52.6	188.3	15,300	125
130	42.8	177.2	16,800	46.5	181.5	15,600	50.0	184.3	14,400	130
135	39.7	171.5	15,900	43.7	176.6	14,700	47.3	179.9	13,600	135
140	36.3	165.1	15,100	40.6	171.0	13,900	44.4	175.1	12,800	140
145	32.7	157.8	14,300	37.4	164.9	13,200	41.4	169.7	12,100	145
150	28.7	149.4	13,500	33.8	157.9	12,500	38.2	163.7	11,400	150
155	24.1	139.4	12,800	30.0	149.8	11,800	34.8	156.9	10,800	155
160	18.5	126.5	12,100	25.6	140.3	11,200	31.0	149.2	10,200	160
165	10.2	106.9	11,500	20.3	128.5	10,600	26.7	140.1	9,700	165
170				13.2	111.9	10,000	21.8	129.0	9,200	170
175							15.3	114.1	8,700	175



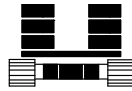
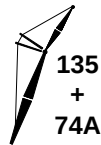
101,400 lb
+
0 lb



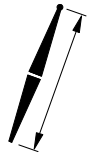
	87°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
50	74.9	230.1	44,100 b							50
55	73.0	228.6	43,300 b							55
60	70.9	227.0	42,500							60
65	68.9	225.2	41,500							65
70	66.9	223.1	39,900	69.1	224.7	41,700				70
75	64.8	220.9	38,200	67.0	222.7	39,700				75
80	62.6	218.4	36,600	65.0	220.5	36,500	66.7	221.6	35,200	80
85	60.5	215.7	35,200	62.8	218.0	33,700	64.6	219.3	32,400	85
90	58.2	212.7	32,700	60.7	215.3	31,200	62.4	216.8	30,000	90
95	56.0	209.5	30,500	58.4	212.4	29,000	60.2	214.1	27,900	95
100	53.6	206.0	28,400	56.2	209.2	27,100	58.0	211.1	26,100	100
105	51.2	202.1	26,600	53.8	205.7	25,300	55.7	207.8	24,400	105
110	48.7	197.9	25,000	51.4	201.9	23,800	53.4	204.3	22,900	110
115	46.1	193.3	23,500	49.0	197.7	22,300	51.0	200.4	21,500	115
120	43.4	188.3	22,200	46.4	193.1	21,100	48.5	196.1	20,200	120
125	40.6	182.7	20,900	43.7	188.1	19,900	45.9	191.5	19,100	125
130	37.5	176.6	19,800	40.8	182.6	18,800	43.1	186.4	18,000	130
135	34.3	169.7	18,700	37.8	176.5	17,800	40.3	180.8	17,000	135
140	30.7	161.8	17,800	34.6	169.7	16,800	37.2	174.6	16,100	140
145	26.7	152.7	16,900	31.0	161.9	16,000	33.9	167.6	15,300	145
150	22.1	141.7	16,000	27.1	152.9	15,200	30.3	159.6	14,500	150
155	16.3	127.3	15,200	22.6	142.1	14,400	26.3	150.4	13,800	155
160	6.7	102.7	14,400	16.9	128.2	13,700	21.6	139.1	13,100	160
165				8.1	105.6	13,000	15.6	124.3	12,400	165
170							4.9	96.6	11,800	170
175										175
180										180
185										185

MLC165-1 S-1

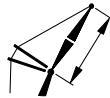
ASME B30.5



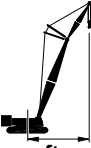
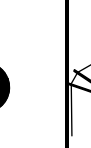
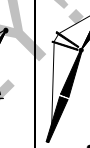
101,400 lb
+
0 lb

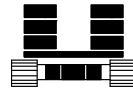
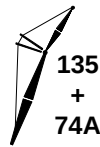


78.7 ft

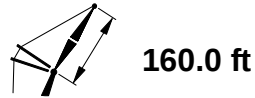
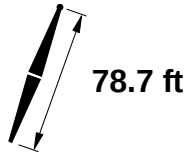


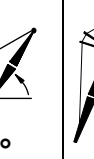
150.0 ft

	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										95
100	61.0	213.3	24,400							100
105	58.8	210.4	22,800							105
110	56.5	207.3	21,300							110
115	54.2	203.8	20,000	57.2	206.0	18,600				115
120	51.8	200.0	18,800	54.9	202.6	17,500				120
125	49.3	195.9	17,800	52.5	198.9	16,500				125
130	46.7	191.4	16,800	50.1	194.9	15,500				130
135	44.1	186.5	15,800	47.5	190.6	14,600	50.7	193.2	13,500	135
140	41.2	181.1	15,000	44.9	185.8	13,800	48.2	188.9	12,700	140
145	38.3	175.1	14,200	42.1	180.5	13,100	45.6	184.2	12,000	145
150	35.1	168.3	13,500	39.2	174.7	12,400	42.8	179.1	11,400	150
155	31.6	160.7	12,800	36.0	168.2	11,700	39.9	173.4	10,800	155
160	27.7	151.9	12,100	32.7	160.8	11,100	36.9	167.1	10,200	160
165	23.3	141.5	11,500	28.9	152.5	10,600	33.5	160.0	9,600	165
170	17.8	128.1	10,900	24.7	142.6	10,000	29.9	151.9	9,100	170
175	9.9	107.8	10,300	19.6	130.3	9,500	25.8	142.4	8,600	175
180				12.8	113.0	9,000	21.0	130.9	8,200	180
185							14.8	115.4	7,700	185



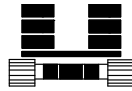
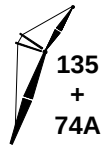
101,400 lb
+
0 lb



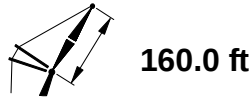
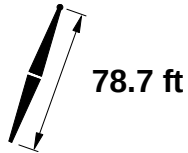
	87°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
55	74.1	239.1	40,300	b						55
60	72.2	237.5	39,600							60
65	70.3	235.8	38,000							65
70	68.4	234.0	36,400	70.5	235.4	38,100				70
75	66.4	231.9	34,900	68.6	233.5	36,600				75
80	64.5	229.6	33,400	66.6	231.4	35,100				80
85	62.5	227.1	31,900	64.7	229.2	33,400	66.2	230.3	32,100	85
90	60.4	224.4	30,500	62.7	226.7	30,900	64.3	228.0	29,800	90
95	58.3	221.4	29,100	60.6	224.0	28,800	62.3	225.5	27,700	95
100	56.2	218.2	27,800	58.5	221.1	26,800	60.2	222.7	25,800	100
105	54.0	214.7	26,400	56.4	217.9	25,100	58.1	219.8	24,100	105
110	51.8	210.9	24,800	54.2	214.4	23,500	56.0	216.5	22,600	110
115	49.5	206.8	23,300	52.0	210.7	22,100	53.8	213.0	21,200	115
120	47.1	202.4	21,900	49.7	206.6	20,800	51.6	209.2	19,900	120
125	44.6	197.5	20,700	47.3	202.2	19,600	49.2	205.1	18,800	125
130	42.0	192.2	19,600	44.8	197.3	18,500	46.8	200.6	17,700	130
135	39.2	186.4	18,500	42.2	192.1	17,500	44.3	195.7	16,800	135
140	36.3	179.9	17,500	39.5	186.3	16,600	41.7	190.3	15,900	140
145	33.1	172.7	16,600	36.6	179.9	15,700	38.9	184.4	15,000	145
150	29.7	164.5	15,800	33.4	172.8	14,900	36.0	177.9	14,300	150
155	25.9	155.0	15,000	30.0	164.7	14,200	32.8	170.6	13,500	155
160	21.4	143.6	14,300	26.2	155.3	13,500	29.4	162.3	12,900	160
165	15.8	128.7	13,600	21.8	144.1	12,800	25.5	152.7	12,200	165
170	6.5	103.3	12,900	16.4	129.7	12,200	20.9	141.0	11,600	170
175				7.8	106.3	11,500	15.1	125.6	11,000	175
180							4.7	97.1	10,400	180
185										185
190										190
195										195

MLC165-1 S-1

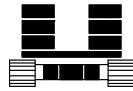
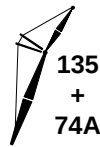
ASME B30.5



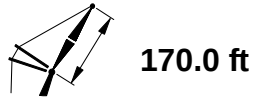
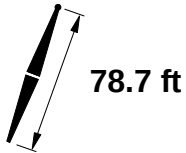
101,400 lb
+
0 lb



	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	62.9	224.7	24,100							100
105	60.9	222.0	22,500							105
110	58.8	219.1	21,000							110
115	56.7	215.9	19,700							115
120	54.6	212.5	18,500	57.4	214.7	17,200				120
125	52.3	208.8	17,500	55.2	211.3	16,100				125
130	50.0	204.8	16,500	53.0	207.7	15,200				130
135	47.7	200.4	15,500	50.7	203.8	14,300				135
140	45.2	195.7	14,700	48.4	199.5	13,500	51.3	202.0	12,400	140
145	42.6	190.5	13,900	45.9	194.9	12,800	49.0	197.8	11,700	145
150	39.9	184.8	13,200	43.4	189.8	12,100	46.6	193.3	11,000	150
155	37.0	178.5	12,500	40.7	184.3	11,400	44.0	188.3	10,400	155
160	33.9	171.4	11,800	37.9	178.2	10,800	41.4	182.9	9,900	160
165	30.6	163.5	11,200	34.9	171.4	10,300	38.6	177.0	9,300	165
170	26.8	154.4	10,700	31.6	163.7	9,700	35.6	170.4	8,800	170
175	22.5	143.5	10,100	28.0	155.0	9,200	32.4	163.0	8,300	175
180	17.3	129.7	9,600	23.9	144.7	8,700	28.9	154.5	7,900	180
185	9.5	108.7	9,100	19.0	132.0	8,300	25.0	144.7	7,500	185
190				12.4	114.1	7,800	20.3	132.7	7,000	190
195							14.3	116.7	6,600	195



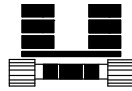
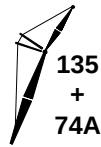
101,400 lb
+
0 lb



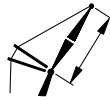
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
60	73.3	248.0	36,500							60
65	71.5	246.4	35,000							65
70	69.7	244.7	33,600							70
75	67.9	242.7	32,100	69.9	244.2	33,600				75
80	66.1	240.6	30,600	68.1	242.3	32,200				80
85	64.2	238.3	29,300	66.2	240.2	30,800	67.7	241.2	31,800	85
90	62.3	235.8	27,900	64.4	237.9	29,500	65.9	239.0	29,500	90
95	60.4	233.0	26,600	62.5	235.4	28,200	64.0	236.7	27,400	95
100	58.4	230.1	25,400	60.6	232.7	26,600	62.1	234.1	25,500	100
105	56.4	226.9	24,200	58.6	229.7	24,900	60.2	231.4	23,900	105
110	54.4	223.4	22,900	56.6	226.6	23,300	58.3	228.4	22,300	110
115	52.3	219.7	21,800	54.6	223.1	21,900	56.3	225.2	21,000	115
120	50.1	215.7	20,800	52.5	219.4	20,600	54.2	221.7	19,700	120
125	47.9	211.3	19,700	50.3	215.4	19,400	52.1	218.0	18,600	125
130	45.6	206.6	18,700	48.1	211.1	18,300	49.9	213.9	17,500	130
135	43.2	201.5	17,800	45.8	206.5	17,300	47.7	209.6	16,600	135
140	40.7	196.0	17,000	43.4	201.4	16,400	45.4	204.8	15,700	140
145	38.0	189.9	16,100	40.9	195.9	15,500	42.9	199.7	14,800	145
150	35.2	183.1	15,300	38.2	189.8	14,700	40.4	194.0	14,100	150
155	32.1	175.6	14,400	35.4	183.1	14,000	37.7	187.9	13,300	155
160	28.8	167.1	13,300	32.4	175.7	13,300	34.9	181.1	12,700	160
165	25.1	157.3	12,500	29.1	167.3	12,600	31.8	173.5	12,000	165
170	20.8	145.4	11,700	25.4	157.6	12,000	28.5	164.9	11,400	170
175	15.3	130.1	10,900	21.2	146.0	11,400	24.7	154.9	10,900	175
180	6.3	103.8	10,300	15.9	131.1	10,800	20.3	142.8	10,300	180
185				7.6	107.0	10,300	14.7	126.9	9,800	185
190							4.6	97.5	9,300	190
195										195
200										200
205										205

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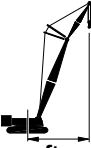
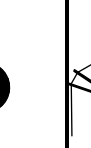
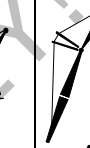
ASME B30.5

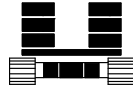
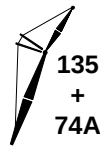


101,400 lb
+
0 lb

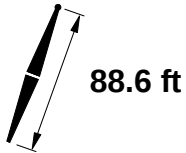


170.0 ft

	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	62.8	233.3	22,200							105
110	60.9	230.7	20,800							110
115	58.9	227.8	19,500							115
120	56.9	224.6	18,300							120
125	54.9	221.2	17,200	57.5	223.3	15,900				125
130	52.8	217.6	16,200	55.5	220.0	15,000				130
135	50.7	213.6	15,300	53.4	216.4	14,100				135
140	48.4	209.4	14,500	51.3	212.6	13,300				140
145	46.1	204.8	13,700	49.1	208.4	12,600	51.8	210.8	11,500	145
150	43.8	199.7	13,000	46.8	203.9	11,900	49.7	206.7	10,800	150
155	41.3	194.3	12,300	44.5	199.0	11,200	47.4	202.3	10,200	155
160	38.6	188.3	11,600	42.0	193.7	10,600	45.1	197.5	9,600	160
165	35.9	181.7	11,000	39.4	187.9	10,100	42.7	192.3	9,100	165
170	32.9	174.4	10,500	36.7	181.5	9,500	40.1	186.6	8,600	170
175	29.6	166.2	9,900	33.8	174.4	9,000	37.4	180.4	8,100	175
180	26.0	156.7	9,400	30.6	166.5	8,500	34.5	173.5	7,700	180
185	21.9	145.4	8,900	27.1	157.4	8,100	31.5	165.8	7,300	185
190	16.8	131.2	8,500	23.2	146.8	7,700	28.1	157.1	6,900	190
195	9.3	109.5	8,000	18.4	133.6	7,200	24.2	146.9	6,500	195
200				12.0	115.2	6,800	19.7	134.5	6,100	200
205							13.9	117.9	5,700	205



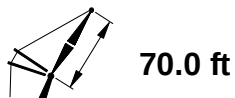
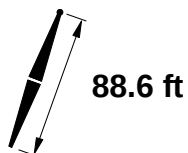
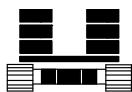
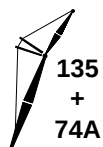
101,400 lb
+
0 lb



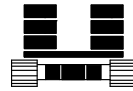
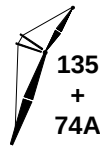
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
30	74.7	162.6	106,100 d							30
32	73.0	162.0	106,100 d							32
34	71.3	161.3	106,100 d							34
36	69.6	160.6	106,100 c							36
38	67.8	159.9	104,100 c							38
40	66.0	159.0	97,100 c							40
45	61.4	156.5	82,900 b	67.0	158.8	79,300 c				45
50	56.7	153.5	72,100 b	62.5	156.4	69,000 c	66.7	157.8	66,700 c	50
55	51.6	149.9	63,700 b	57.8	153.6	61,000 b	62.1	155.4	58,900 b	55
60	46.2	145.6	57,000	52.8	150.1	54,500 b	57.4	152.5	52,600 b	60
65	40.2	140.2	51,400	47.5	145.9	49,200	52.4	149.0	47,500 b	65
70	33.4	133.5	46,700	41.6	140.9	44,700	47.0	144.7	43,200	70
75	25.0	124.6	42,700	35.0	134.5	40,900	41.1	139.6	39,500	75
80	12.0	109.6	39,200	27.1	126.2	37,600	34.4	133.1	36,300	80
85				15.9	113.6	34,700	26.3	124.6	33,500	85
90							14.6	111.2	31,000	90
95										95
100										100
105										105
110										110

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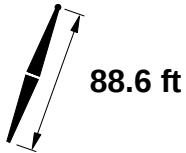
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
30										30
32										32
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65	59.8	152.2	44,700 b							65
70	54.9	149.0	40,600 b							70
75	49.7	145.1	37,200 b	57.2	148.0	34,800 b				75
80	44.1	140.4	34,200	52.2	144.5	32,000 b				80
85	37.9	134.7	31,600	46.8	140.2	29,600				85
90	30.6	127.3	29,300	40.9	135.0	27,400	49.1	138.9	25,600 b	90
95	21.2	117.0	27,200	34.2	128.5	25,500	43.4	134.1	23,800	95
100				26.0	119.8	23,800	37.1	128.2	22,200	100
105				14.0	106.1	22,200	29.6	120.6	20,800	105
110							19.8	109.7	19,400	110



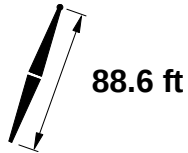
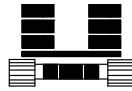
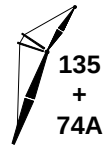
101,400 lb
+
0 lb



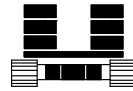
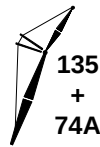
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
34	73.7	171.8	97,100 d							34
36	72.2	171.2	97,100 d							36
38	70.7	170.5	97,000 c							38
40	69.2	169.8	96,900 c							40
45	65.3	167.7	82,700 b	70.0	169.5	79,000 c				45
50	61.3	165.2	71,900 b	66.2	167.5	68,800 c				50
55	57.1	162.2	63,600 b	62.2	165.1	60,700 b	65.8	166.5	58,600 b	55
60	52.7	158.7	56,800	58.1	162.2	54,300 b	61.9	164.1	52,300 b	60
65	48.1	154.6	51,200	53.7	158.9	48,900	57.7	161.2	47,200 b	65
70	43.1	149.7	46,600	49.2	154.9	44,500	53.4	157.7	42,900	70
75	37.5	143.8	42,600	44.2	150.2	40,700	48.8	153.7	39,300	75
80	31.2	136.4	39,200	38.8	144.5	37,500	43.8	148.9	36,100	80
85	23.3	126.7	36,200	32.7	137.6	34,600	38.3	143.2	33,400	85
90	11.3	110.7	33,500	25.3	128.6	32,100	32.1	136.1	31,000	90
95				14.9	114.9	29,800	24.6	126.8	28,800	95
100							13.6	112.4	26,800	100
105										105
110										110
115										115
120										120

MLC165-1 S-1

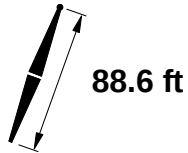
ASME B30.5

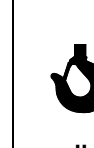
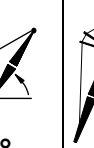
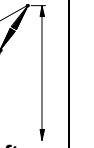


	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70	59.8	160.8	40,300 b							70
75	55.6	157.7	36,800 b							75
80	51.1	153.9	33,900	57.5	156.7	31,700 b				80
85	46.3	149.5	31,300	53.2	153.2	29,300				85
90	41.2	144.3	29,000	48.6	149.2	27,100				90
95	35.4	138.0	27,000	43.6	144.3	25,200	50.5	147.8	23,500	95
100	28.6	130.0	25,200	38.1	138.6	23,500	45.7	143.3	21,900	100
105	19.9	118.9	23,500	31.9	131.4	22,000	40.5	138.0	20,500	105
110				24.3	122.1	20,600	34.6	131.4	19,200	110
115				13.1	107.2	19,300	27.6	123.2	18,000	115
120							18.5	111.4	16,900	120



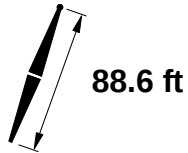
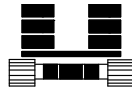
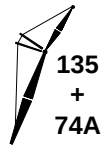
101,400 lb
+
0 lb

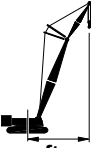
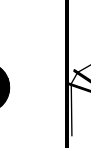
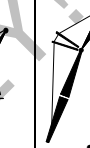


	87°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
36	74.2	181.7	87,900 d							36
38	72.9	181.1	87,900 c							38
40	71.6	180.4	87,700 c							40
45	68.2	178.6	82,500 b							45
50	64.7	176.4	71,800 b	69.0	178.3	68,600 c				50
55	61.1	173.9	63,400 b	65.5	176.3	60,500 b				55
60	57.4	170.9	56,700	62.0	173.8	54,100 b	65.2	175.3	52,100 b	60
65	53.6	167.4	51,100	58.3	170.9	48,800 b	61.6	172.8	47,000 b	65
70	49.5	163.5	46,500	54.5	167.6	44,300	58.0	169.8	42,700 b	70
75	45.2	158.9	42,600	50.4	163.7	40,600	54.1	166.5	39,100	75
80	40.5	153.5	39,200	46.2	159.3	37,300	50.1	162.6	36,000	80
85	35.3	147.0	36,200	41.6	154.1	34,500	45.8	158.1	33,200	85
90	29.3	139.1	33,600	36.5	147.9	32,000	41.2	152.8	30,800	90
95	22.0	128.7	31,300	30.8	140.4	29,800	36.1	146.5	28,700	95
100	10.6	111.6	29,100	23.9	130.7	27,800	30.3	138.9	26,800	100
105				14.0	116.2	26,000	23.2	128.9	25,100	105
110							12.9	113.6	23,500	110
115										115
120										120
125										125
130										130

MLC165-1 S-1

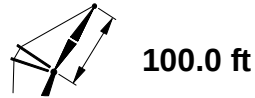
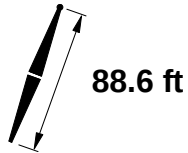
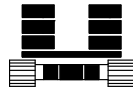
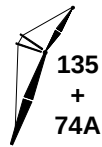
ASME B30.5

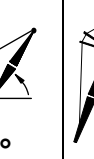


	75°			70°			65°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75	59.8	169.5	36,600 b							75
80	56.1	166.4	33,700							80
85	52.1	162.7	31,100	57.8	165.3	29,000				85
90	48.0	158.5	28,900	54.0	162.0	26,900				90
95	43.5	153.7	26,900	49.9	158.0	25,000				95
100	38.7	148.0	25,100	45.6	153.5	23,400	51.6	156.6	21,700	100
105	33.3	141.1	23,500	41.0	148.2	21,900	47.4	152.3	20,300	105
110	26.9	132.4	22,000	35.9	141.9	20,500	43.0	147.4	19,000	110
115	18.7	120.6	20,700	30.0	134.2	19,200	38.1	141.5	17,800	115
120				22.9	124.1	18,100	32.5	134.5	16,800	120
125				12.3	108.4	17,000	26.0	125.5	15,800	125
130							17.4	113.0	14,800	130

MLC165-1 S-1

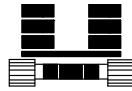
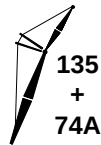
ASME B30.5



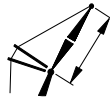
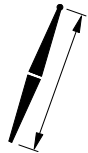
	87°			83°			80°			
										
	ft	ft	ft	lb	ft	ft	lb	ft	ft	ft
38	74.7	191.5	79,600 c							38
40	73.5	190.9	79,500 c							40
45	70.5	189.3	76,600 b							45
50	67.4	187.4	71,600 b							50
55	64.2	185.1	63,200 b	68.1	187.1	60,200 b				55
60	61.0	182.5	56,400	65.0	185.0	53,800 b	67.8	186.2	51,800 b	60
65	57.7	179.6	50,900	61.8	182.4	48,500	64.7	184.0	46,700 b	65
70	54.2	176.2	46,300	58.5	179.6	44,100	61.5	181.4	42,400	70
75	50.6	172.3	42,300	55.0	176.3	40,300	58.2	178.5	38,800	75
80	46.8	167.9	39,000	51.5	172.6	37,100	54.7	175.2	35,700	80
85	42.7	162.9	36,000	47.7	168.3	34,300	51.1	171.4	33,000	85
90	38.3	157.0	33,400	43.7	163.4	31,800	47.4	167.1	30,600	90
95	33.4	150.1	31,100	39.4	157.8	29,600	43.3	162.2	28,500	95
100	27.8	141.7	29,100	34.6	151.1	27,600	39.0	156.4	26,600	100
105	20.8	130.6	27,200	29.2	143.1	25,900	34.2	149.7	24,900	105
110	10.1	112.5	25,500	22.6	132.8	24,300	28.7	141.5	23,300	110
115				13.3	117.4	22,800	22.0	130.9	21,900	115
120							12.2	114.7	20,600	120
125										125
130										130
135										135
140										140

MLC165-1 S-1

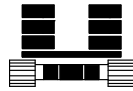
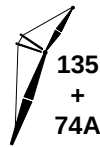
ASME B30.5



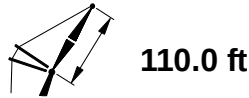
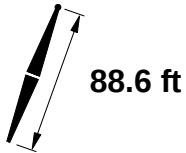
101,400 lb
+
0 lb



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80	59.8	178.1	33,400							80
85	56.5	175.0	30,800							85
90	53.0	171.5	28,600							90
95	49.3	167.5	26,600	54.6	170.7	24,700				95
100	45.4	162.9	24,800	51.0	166.9	23,000				100
105	41.2	157.6	23,200	47.2	162.6	21,500	52.5	165.4	19,900	105
110	36.6	151.4	21,800	43.2	157.6	20,200	48.8	161.3	18,600	110
115	31.5	144.0	20,400	38.8	151.8	18,900	44.9	156.6	17,500	115
120	25.5	134.8	19,200	34.0	145.1	17,800	40.7	151.2	16,400	120
125	17.7	122.2	18,100	28.4	136.8	16,800	36.0	144.9	15,500	125
130				21.7	126.1	15,800	30.8	137.3	14,600	130
135				11.7	109.4	14,900	24.7	127.8	13,700	135
140							16.5	114.5	12,900	140



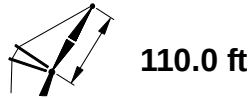
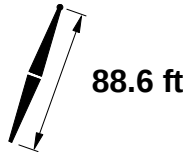
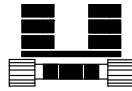
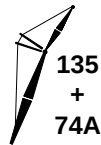
101,400 lb
+
0 lb

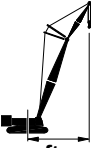
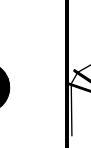
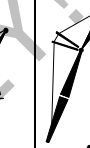


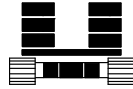
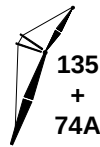
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
45	72.3	199.8	71,200 b							45
50	69.5	198.1	68,700 b							50
55	66.7	196.1	63,100 b	70.2	197.8	60,200 b				55
60	63.9	193.8	56,400	67.4	195.9	53,700 b				60
65	60.9	191.2	50,800	64.5	193.7	48,400	67.1	194.9	46,600 b	65
70	57.9	188.2	46,200	61.6	191.1	44,000	64.3	192.6	42,400	70
75	54.8	184.9	42,300	58.6	188.2	40,300	61.4	190.1	38,700	75
80	51.5	181.1	38,900	55.5	185.0	37,000	58.3	187.2	35,600	80
85	48.1	176.9	36,000	52.3	181.3	34,200	55.2	183.9	32,900	85
90	44.5	172.1	33,400	48.9	177.2	31,800	52.0	180.2	30,500	90
95	40.7	166.7	31,100	45.3	172.6	29,600	48.6	176.1	28,400	95
100	36.5	160.4	29,100	41.6	167.3	27,600	45.0	171.4	26,600	100
105	31.8	153.1	27,300	37.5	161.3	25,900	41.2	166.0	24,900	105
110	26.5	144.1	25,600	32.9	154.2	24,300	37.1	159.9	23,400	110
115	19.9	132.4	24,100	27.8	145.6	22,900	32.5	152.7	22,000	115
120	9.6	113.4	22,700	21.5	134.7	21,600	27.3	144.0	20,700	120
125				12.7	118.5	20,300	20.9	132.8	19,500	125
130							11.6	115.7	18,400	130
135										135
140										140
145										145
150										150

MLC165-1 S-1

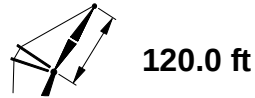
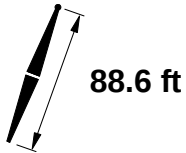
ASME B30.5

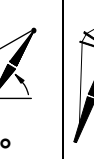


	75°			70°			65°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80	62.8	189.5	33,300							80
85	59.9	186.8	30,700							85
90	56.8	183.7	28,500							90
95	53.6	180.2	26,500							95
100	50.3	176.3	24,800	55.1	179.4	23,000				100
105	46.8	171.9	23,200	51.9	175.7	21,500				105
110	43.2	166.9	21,700	48.5	171.5	20,200				110
115	39.2	161.2	20,400	44.9	166.8	18,900	49.9	170.2	17,500	115
120	34.9	154.6	19,300	41.1	161.4	17,800	46.4	165.7	16,400	120
125	30.0	146.7	18,200	36.9	155.3	16,800	42.7	160.6	15,500	125
130	24.3	137.0	17,100	32.4	148.0	15,900	38.7	154.8	14,600	130
135	16.9	123.7	16,200	27.1	139.3	15,000	34.3	148.0	13,800	135
140				20.7	128.0	14,200	29.4	140.0	13,000	140
145				11.1	110.4	13,400	23.5	129.9	12,300	145
150							15.8	115.9	11,600	150



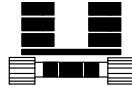
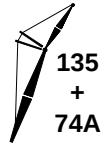
101,400 lb
+
0 lb



	87°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
45		73.8	210.3	66,000 b						45
50		71.3	208.7	63,500 b						50
55		68.8	206.9	61,200 b						55
60		66.2	204.8	56,100	69.4	206.6	53,400 b			60
65		63.5	202.5	50,600	66.8	204.6	48,200			65
70		60.9	199.8	46,000	64.2	202.3	43,700	66.6	203.6	42,100
75		58.1	196.9	42,100	61.5	199.8	40,000	63.9	201.3	38,400
80		55.2	193.6	38,700	58.7	196.9	36,800	61.2	198.7	35,300
85		52.3	189.9	35,800	55.9	193.7	34,000	58.5	195.8	32,600
90		49.2	185.8	33,200	52.9	190.1	31,500	55.6	192.6	30,300
95		45.9	181.3	30,900	49.9	186.1	29,300	52.7	189.0	28,200
100		42.5	176.1	28,900	46.7	181.7	27,400	49.6	185.0	26,300
105		38.9	170.3	27,100	43.3	176.7	25,700	46.4	180.5	24,600
110		34.9	163.6	25,400	39.7	171.0	24,100	43.0	175.4	23,100
115		30.4	155.8	23,900	35.8	164.6	22,700	39.4	169.7	21,700
120		25.3	146.4	22,500	31.5	157.1	21,400	35.5	163.2	20,500
125		19.0	134.1	21,300	26.6	148.0	20,200	31.1	155.5	19,300
130		9.2	114.2	20,100	20.6	136.6	19,000	26.1	146.4	18,200
135					12.1	119.6	18,000	20.0	134.6	17,200
140								11.1	116.7	16,300
145										145
150										150
155										155
160										160

MLC165-1 S-1

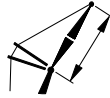
ASME B30.5



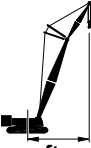
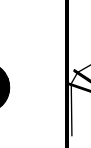
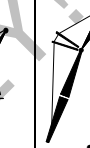
101,400 lb
+
0 lb

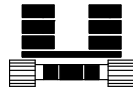
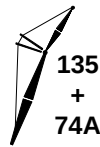


88.6 ft

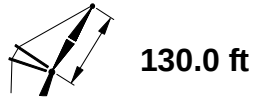
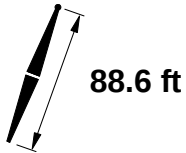


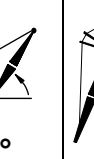
120.0 ft

	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	62.6	198.2	30,400							85
90	59.9	195.5	28,200							90
95	57.1	192.4	26,200							95
100	54.2	189.0	24,400							100
105	51.2	185.2	22,900	55.5	188.1	21,200				105
110	48.0	180.9	21,400	52.6	184.5	19,800				110
115	44.7	176.1	20,100	49.5	180.4	18,600				115
120	41.2	170.8	19,000	46.3	175.9	17,500	50.8	179.0	16,100	120
125	37.5	164.7	17,900	42.9	170.8	16,500	47.6	174.7	15,100	125
130	33.4	157.6	16,900	39.3	165.1	15,600	44.3	169.9	14,200	130
135	28.7	149.3	16,000	35.3	158.5	14,700	40.8	164.4	13,400	135
140	23.3	139.1	15,100	30.9	150.9	13,900	37.0	158.2	12,700	140
145	16.2	125.1	14,300	25.9	141.6	13,100	32.8	151.0	12,000	145
150				19.8	129.7	12,400	28.1	142.5	11,300	150
155				10.7	111.4	11,700	22.5	132.0	10,700	155
160							15.1	117.3	10,100	160



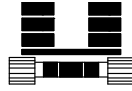
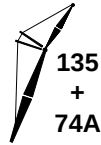
101,400 lb
+
0 lb



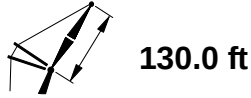
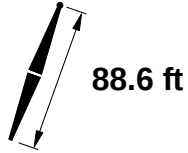
	87°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
50	72.8	219.2	49,500 b							50
55	70.5	217.6	48,600 b							55
60	68.1	215.7	47,600							60
65	65.7	213.5	46,800	68.7	215.4	47,900				65
70	63.3	211.2	45,800	66.3	213.4	43,500				70
75	60.8	208.5	41,900	63.8	211.0	39,800	66.1	212.4	38,200	75
80	58.2	205.6	38,500	61.4	208.4	36,600	63.6	210.0	35,100	80
85	55.6	202.3	35,600	58.8	205.6	33,800	61.1	207.4	32,400	85
90	52.9	198.7	33,000	56.2	202.4	31,300	58.6	204.5	30,000	90
95	50.1	194.7	30,700	53.5	198.9	29,100	56.0	201.3	27,900	95
100	47.1	190.3	28,700	50.7	195.0	27,200	53.3	197.7	26,100	100
105	44.0	185.4	26,900	47.8	190.7	25,500	50.5	193.8	24,400	105
110	40.8	179.9	25,300	44.8	185.9	23,900	47.6	189.5	22,900	110
115	37.3	173.8	23,800	41.5	180.5	22,500	44.5	184.6	21,500	115
120	33.5	166.7	22,400	38.1	174.5	21,200	41.3	179.3	20,300	120
125	29.2	158.5	21,200	34.4	167.7	20,000	37.8	173.2	19,100	125
130	24.3	148.6	20,000	30.2	159.8	18,900	34.0	166.3	18,100	130
135	18.3	135.8	18,900	25.5	150.4	17,900	29.9	158.3	17,100	135
140	8.8	115.0	17,900	19.8	138.4	16,900	25.1	148.6	16,200	140
145				11.7	120.6	16,000	19.2	136.4	15,300	145
150							10.7	117.7	14,500	150
155										155
160										160
165										165
170										170

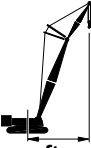
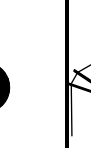
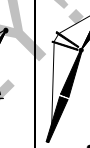
MLC165-1 S-1

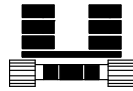
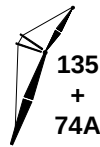
ASME B30.5



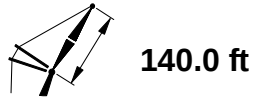
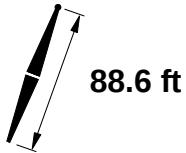
101,400 lb
+
0 lb

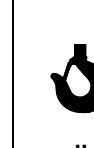
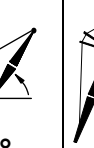
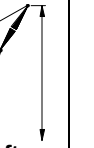


	75°			70°			65°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90	62.4	206.9	27,900							90
95	59.9	204.1	26,000							95
100	57.3	201.1	24,200							100
105	54.6	197.7	22,600							105
110	51.9	194.0	21,200	55.9	196.8	19,600				110
115	49.0	189.8	19,900	53.2	193.2	18,400				115
120	46.0	185.3	18,800	50.4	189.3	17,300				120
125	42.9	180.2	17,700	47.4	184.9	16,300	51.5	187.8	14,900	125
130	39.6	174.5	16,700	44.4	180.1	15,300	48.7	183.6	14,000	130
135	36.0	168.0	15,800	41.1	174.7	14,500	45.7	179.0	13,200	135
140	32.0	160.6	14,900	37.7	168.6	13,700	42.5	173.8	12,500	140
145	27.6	151.8	14,100	33.9	161.6	13,000	39.1	168.0	11,800	145
150	22.3	141.1	13,400	29.7	153.6	12,300	35.5	161.5	11,100	150
155	15.6	126.5	12,700	24.9	143.9	11,600	31.5	153.9	10,500	155
160				19.0	131.5	11,000	27.0	145.0	10,000	160
165				10.2	112.3	10,400	21.6	133.9	9,400	165
170							14.5	118.6	8,900	170



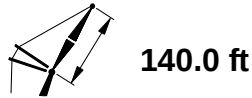
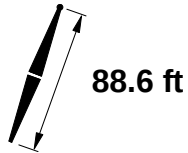
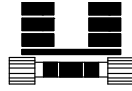
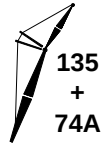
101,400 lb
+
0 lb



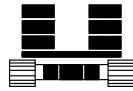
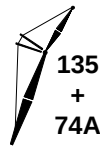
	87°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
50	74.1	229.7	46,400 b							50
55	71.9	228.1	45,500 b							55
60	69.8	226.4	44,700							60
65	67.6	224.4	44,000	70.3	226.1	45,200				65
70	65.3	222.3	43,000	68.1	224.2	43,200				70
75	63.0	219.8	41,300	65.8	222.1	39,500	67.9	223.2	37,900	75
80	60.7	217.2	38,300	63.6	219.7	36,300	65.6	221.1	34,800	80
85	58.4	214.2	35,300	61.3	217.1	33,500	63.4	218.7	32,100	85
90	55.9	211.0	32,800	58.9	214.2	31,000	61.1	216.1	29,700	90
95	53.4	207.4	30,500	56.5	211.1	28,900	58.7	213.2	27,600	95
100	50.8	203.6	28,500	54.0	207.6	26,900	56.3	210.0	25,800	100
105	48.1	199.3	26,700	51.4	203.8	25,200	53.8	206.5	24,100	105
110	45.3	194.6	25,000	48.8	199.6	23,600	51.2	202.6	22,600	110
115	42.4	189.4	23,500	46.0	195.0	22,200	48.5	198.4	21,200	115
120	39.2	183.6	22,200	43.0	189.9	20,900	45.7	193.8	20,000	120
125	35.9	177.1	20,900	40.0	184.3	19,800	42.8	188.6	18,900	125
130	32.2	169.7	19,800	36.7	177.9	18,700	39.7	182.9	17,800	130
135	28.1	161.1	18,700	33.1	170.8	17,700	36.4	176.5	16,800	135
140	23.4	150.7	17,800	29.1	162.5	16,700	32.8	169.3	15,900	140
145	17.6	137.3	16,800	24.6	152.6	15,900	28.8	160.9	15,100	145
150	8.5	115.7	15,900	19.1	140.1	15,000	24.2	150.8	14,300	150
155				11.2	121.6	14,200	18.5	138.0	13,600	155
160							10.3	118.6	12,900	160
165										165
170										170
175										175
180										180

MLC165-1 S-1

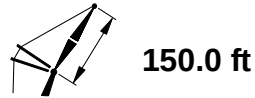
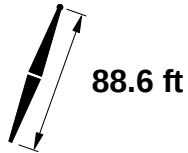
ASME B30.5



	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	62.2	215.6	25,600							95
100	59.9	212.8	23,900							100
105	57.5	209.7	22,300							105
110	55.0	206.4	20,900							110
115	52.5	202.7	19,600	56.2	205.5	18,000				115
120	49.9	198.7	18,500	53.7	202.0	16,900				120
125	47.1	194.3	17,400	51.1	198.1	15,900				125
130	44.3	189.4	16,400	48.4	193.9	15,000	52.2	196.6	13,700	130
135	41.3	184.0	15,500	45.6	189.2	14,200	49.5	192.5	12,900	135
140	38.1	178.0	14,700	42.7	184.1	13,400	46.8	188.1	12,100	140
145	34.6	171.2	13,900	39.6	178.3	12,600	43.9	183.1	11,400	145
150	30.8	163.4	13,100	36.2	171.9	12,000	40.9	177.6	10,800	150
155	26.5	154.2	12,400	32.6	164.6	11,300	37.6	171.5	10,200	155
160	21.5	143.0	11,800	28.6	156.2	10,700	34.1	164.6	9,700	160
165	15.0	127.9	11,200	24.0	146.0	10,100	30.3	156.7	9,100	165
170				18.3	133.1	9,600	26.0	147.3	8,600	170
175				9.9	113.1	9,100	20.8	135.8	8,100	175
180							14.0	119.8	7,700	180



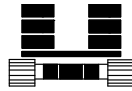
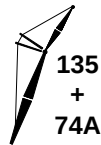
101,400 lb
+
0 lb



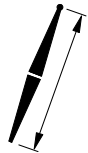
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
55	73.2	238.6	42,600 b							55
60	71.2	237.0	41,900							60
65	69.1	235.2	41,200							65
70	67.1	233.2	39,700	69.6	234.9	41,500				70
75	65.0	231.0	38,100	67.5	233.0	39,400				75
80	62.8	228.5	36,600	65.5	230.8	36,200	67.4	232.0	34,700	80
85	60.7	225.8	35,100	63.3	228.4	33,400	65.3	229.8	32,000	85
90	58.5	222.9	32,700	61.2	225.8	30,900	63.2	227.4	29,600	90
95	56.2	219.7	30,400	59.0	222.9	28,800	61.0	224.7	27,500	95
100	53.9	216.2	28,400	56.7	219.7	26,800	58.8	221.8	25,700	100
105	51.5	212.4	26,600	54.4	216.3	25,100	56.5	218.7	24,000	105
110	49.0	208.2	24,900	52.0	212.6	23,500	54.2	215.2	22,500	110
115	46.4	203.7	23,500	49.6	208.5	22,100	51.8	211.4	21,200	115
120	43.7	198.7	22,100	47.0	204.0	20,900	49.3	207.3	19,900	120
125	40.9	193.2	20,900	44.3	199.2	19,700	46.8	202.8	18,800	125
130	37.8	187.1	19,700	41.5	193.8	18,600	44.1	197.9	17,700	130
135	34.6	180.2	18,700	38.6	187.8	17,600	41.3	192.5	16,800	135
140	31.1	172.5	17,700	35.4	181.2	16,700	38.3	186.5	15,900	140
145	27.2	163.5	16,800	31.9	173.7	15,800	35.1	179.8	15,100	145
150	22.6	152.7	16,000	28.1	165.0	15,000	31.6	172.2	14,300	150
155	17.0	138.9	15,200	23.7	154.7	14,300	27.8	163.4	13,600	155
160	8.2	116.5	14,400	18.4	141.7	13,500	23.3	152.9	12,900	160
165				10.9	122.6	12,800	17.9	139.6	12,200	165
170							10.0	119.5	11,600	170
175										175
180										180
185										185
190										190

MLC165-1 S-1

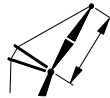
ASME B30.5



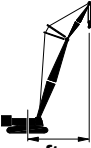
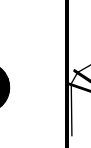
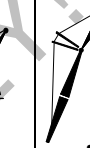
101,400 lb
+
0 lb

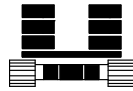
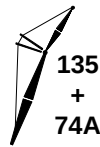


88.6 ft

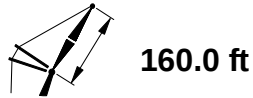
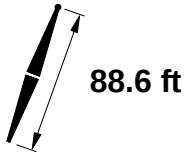


150.0 ft

	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	62.1	224.2	23,800							100
105	59.9	221.4	22,200							105
110	57.7	218.4	20,800							110
115	55.4	215.1	19,500							115
120	53.0	211.5	18,400	56.4	214.2	16,800				120
125	50.6	207.6	17,300	54.1	210.7	15,800				125
130	48.1	203.3	16,300	51.7	206.9	14,900				130
135	45.4	198.6	15,400	49.2	202.8	14,100	52.7	205.4	12,800	135
140	42.7	193.4	14,600	46.7	198.3	13,300	50.3	201.4	12,000	140
145	39.8	187.7	13,800	44.0	193.3	12,600	47.7	197.1	11,400	145
150	36.7	181.4	13,100	41.2	187.9	11,900	45.1	192.3	10,700	150
155	33.4	174.2	12,400	38.2	181.9	11,300	42.3	187.1	10,100	155
160	29.7	166.1	11,800	35.0	175.1	10,700	39.4	181.3	9,600	160
165	25.6	156.6	11,200	31.5	167.5	10,100	36.3	174.9	9,100	165
170	20.8	144.9	10,600	27.6	158.7	9,600	33.0	167.6	8,600	170
175	14.5	129.2	10,000	23.1	148.1	9,100	29.3	159.3	8,100	175
180				17.7	134.7	8,600	25.1	149.6	7,700	180
185				9.5	114.0	8,100	20.1	137.6	7,200	185
190							13.5	121.0	6,800	190



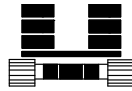
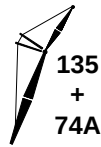
101,400 lb
+
0 lb



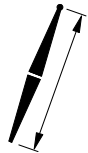
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
55	74.2	249.0	39,700 b							55
60	72.4	247.5	39,000							60
65	70.5	245.9	37,800							65
70	68.6	244.0	36,200	70.9	245.6	38,000				70
75	66.6	241.9	34,800	69.0	243.7	36,600				75
80	64.7	239.7	33,300	67.1	241.7	35,200				80
85	62.7	237.2	31,900	65.1	239.5	33,100	66.9	240.7	31,700	85
90	60.6	234.5	30,500	63.1	237.1	30,700	65.0	238.5	29,300	90
95	58.6	231.6	29,100	61.1	234.4	28,500	63.0	236.1	27,200	95
100	56.4	228.4	27,800	59.0	231.6	26,600	60.9	233.4	25,400	100
105	54.3	224.9	26,300	56.9	228.4	24,800	58.9	230.5	23,700	105
110	52.0	221.2	24,700	54.8	225.0	23,300	56.7	227.3	22,200	110
115	49.7	217.1	23,200	52.5	221.4	21,900	54.6	223.9	20,900	115
120	47.3	212.7	21,900	50.3	217.4	20,600	52.3	220.2	19,600	120
125	44.8	207.9	20,600	47.9	213.0	19,400	50.1	216.2	18,500	125
130	42.2	202.6	19,500	45.4	208.3	18,300	47.7	211.8	17,500	130
135	39.5	196.8	18,500	42.8	203.1	17,300	45.2	207.1	16,500	135
140	36.6	190.4	17,500	40.1	197.5	16,400	42.6	201.9	15,600	140
145	33.5	183.3	16,600	37.3	191.3	15,600	39.9	196.2	14,800	145
150	30.1	175.2	15,800	34.2	184.3	14,800	37.0	189.9	14,000	150
155	26.3	165.9	15,000	30.9	176.5	14,000	33.9	182.9	13,300	155
160	21.9	154.7	14,200	27.2	167.5	13,300	30.6	175.0	12,600	160
165	16.4	140.3	13,500	23.0	156.8	12,700	26.9	165.8	12,000	165
170	8.0	117.2	12,800	17.8	143.3	12,000	22.6	155.0	11,400	170
175				10.5	123.5	11,400	17.3	141.2	10,800	175
180							9.6	120.3	10,300	180
185										185
190										190
195										195
200										200

MLC165-1 S-1

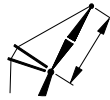
ASME B30.5



101,400 lb
+
0 lb

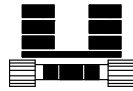
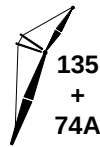


88.6 ft

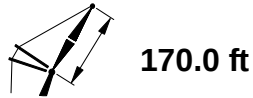
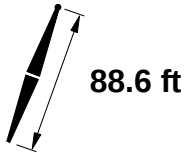


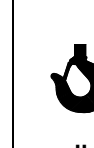
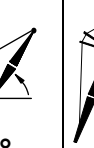
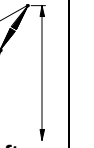
160.0 ft

	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	62.0	232.9	21,900							105
110	59.9	230.1	20,500							110
115	57.8	227.1	19,200							115
120	55.7	223.8	18,000							120
125	53.5	220.2	17,000	56.7	222.8	15,500				125
130	51.2	216.4	16,000	54.5	219.4	14,600				130
135	48.9	212.2	15,100	52.3	215.7	13,700				135
140	46.5	207.6	14,300	50.0	211.7	13,000				140
145	43.9	202.7	13,500	47.6	207.3	12,200	50.9	210.2	11,000	145
150	41.3	197.2	12,800	45.1	202.5	11,600	48.6	206.0	10,400	150
155	38.5	191.3	12,100	42.5	197.3	10,900	46.1	201.4	9,800	155
160	35.5	184.6	11,500	39.8	191.6	10,400	43.6	196.4	9,300	160
165	32.3	177.2	10,900	36.9	185.3	9,800	40.9	190.9	8,700	165
170	28.8	168.7	10,300	33.8	178.2	9,300	38.1	184.8	8,300	170
175	24.8	158.8	9,800	30.5	170.3	8,800	35.1	178.1	7,800	175
180	20.1	146.7	9,300	26.7	161.1	8,300	31.9	170.5	7,400	180
185	14.0	130.4	8,800	22.4	150.1	7,900	28.3	161.9	6,900	185
190				17.1	136.2	7,400	24.3	151.8	6,600	190
195				9.2	114.8	7,000	19.5	139.3	6,200	195
200							13.1	122.2	5,800	200



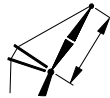
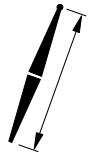
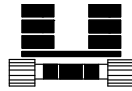
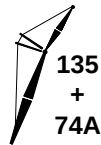
101,400 lb
+
0 lb



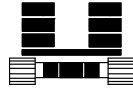
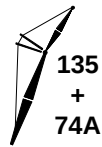
	87°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
60	73.4	258.0	36,300							60
65	71.7	256.4	34,900							65
70	69.9	254.7	33,400							70
75	68.1	252.8	32,000	70.3	254.4	33,700				75
80	66.3	250.7	30,600	68.5	252.5	32,300				80
85	64.4	248.4	29,300	66.7	250.5	31,000				85
90	62.5	245.9	27,900	64.8	248.2	29,700	66.5	249.5	29,100	90
95	60.6	243.1	26,600	63.0	245.8	28,300	64.7	247.2	27,000	95
100	58.6	240.2	25,400	61.0	243.1	26,300	62.8	244.7	25,200	100
105	56.7	237.0	24,200	59.1	240.2	24,600	60.9	242.1	23,500	105
110	54.6	233.6	23,100	57.1	237.1	23,100	58.9	239.2	22,000	110
115	52.5	229.9	21,900	55.1	233.7	21,700	56.9	236.0	20,600	115
120	50.4	226.0	20,800	53.0	230.1	20,400	54.9	232.6	19,400	120
125	48.1	221.6	19,800	50.9	226.2	19,200	52.8	229.0	18,300	125
130	45.8	217.0	18,900	48.7	222.0	18,100	50.7	225.0	17,200	130
135	43.4	211.9	17,900	46.4	217.4	17,100	48.5	220.8	16,300	135
140	40.9	206.4	17,100	44.0	212.4	16,200	46.2	216.2	15,400	140
145	38.3	200.3	16,200	41.5	207.0	15,400	43.8	211.2	14,600	145
150	35.5	193.7	15,400	38.9	201.1	14,600	41.3	205.7	13,800	150
155	32.5	186.3	14,400	36.1	194.6	13,800	38.7	199.7	13,100	155
160	29.2	177.9	13,500	33.2	187.3	13,100	35.9	193.2	12,400	160
165	25.5	168.2	12,600	29.9	179.2	12,500	32.9	185.9	11,800	165
170	21.2	156.6	11,800	26.4	169.9	11,900	29.7	177.6	11,200	170
175	15.9	141.7	11,000	22.3	158.8	11,300	26.0	168.2	10,700	175
180	7.7	117.9	10,300	17.3	144.9	10,700	21.9	156.9	10,100	180
185				10.2	124.4	10,200	16.8	142.7	9,600	185
190							9.3	121.1	9,100	190
195										195
200										200
205										205
210										210

MLC165-1 S-1

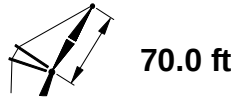
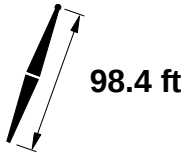
ASME B30.5



	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	61.8	241.6	20,200							110
115	59.9	238.8	19,000							115
120	57.9	235.8	17,800							120
125	55.9	232.5	16,700							125
130	53.9	229.0	15,800	56.9	231.5	14,300				130
135	51.8	225.2	14,900	54.8	228.1	13,500				135
140	49.6	221.1	14,100	52.7	224.5	12,700				140
145	47.3	216.7	13,300	50.6	220.5	12,000				145
150	45.0	211.9	12,600	48.4	216.2	11,300	51.5	219.0	10,100	150
155	42.6	206.6	11,900	46.1	211.6	10,700	49.3	214.9	9,600	155
160	40.0	200.9	11,300	43.7	206.6	10,100	47.0	210.4	9,000	160
165	37.3	194.7	10,700	41.2	201.1	9,600	44.7	205.6	8,500	165
170	34.4	187.8	10,100	38.6	195.1	9,100	42.2	200.3	8,000	170
175	31.3	180.0	9,600	35.8	188.5	8,600	39.7	194.5	7,600	175
180	27.9	171.2	9,100	32.8	181.2	8,100	36.9	188.2	7,100	180
185	24.1	161.0	8,600	29.5	172.9	7,700	34.0	181.2	6,700	185
190	19.5	148.4	8,200	25.9	163.4	7,300	30.9	173.3	6,300	190
195	13.6	131.6	7,700	21.7	152.1	6,900	27.4	164.4	6,000	195
200				16.6	137.7	6,500	23.5	153.9	5,600	200
205				9.0	115.6	6,100	18.9	141.0	5,300	205
210							12.7	123.3	4,900	210



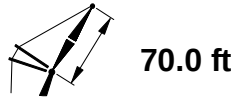
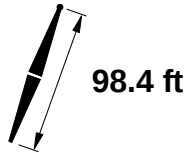
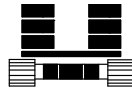
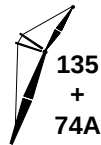
101,400 lb
+
0 lb



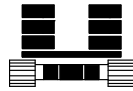
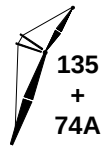
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
32	73.4	172.0	102,100 d							32
34	71.7	171.3	102,100 d							34
36	70.0	170.7	102,100 d							36
38	68.2	169.9	102,100 c							38
40	66.5	169.1	97,000 c							40
45	61.9	166.6	82,800 b	68.1	169.1	78,800 c				45
50	57.2	163.7	72,100 b	63.6	166.8	68,500 c				50
55	52.2	160.2	63,700 b	58.9	164.1	60,600 b	63.7	166.0	58,200 c	55
60	46.8	155.9	56,900	54.0	160.8	54,100 b	59.0	163.3	52,000 b	60
65	40.9	150.7	51,400	48.8	156.8	48,800 b	54.1	160.0	46,900 b	65
70	34.1	144.1	46,700	43.1	151.9	44,400	48.9	156.0	42,700 b	70
75	25.9	135.5	42,700	36.7	146.0	40,600	43.2	151.2	39,000	75
80	13.9	121.7	39,200	29.2	138.3	37,400	36.8	145.2	35,900	80
85				19.2	127.1	34,500	29.3	137.5	33,200	85
90							19.4	126.5	30,700	90
95										95
100										100
105										105
110										110
115										115

MLC165-1 S-1

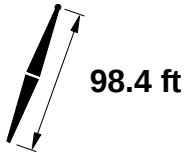
ASME B30.5



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
32										32
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65	62.2	163.1	43,800 c							65
70	57.4	160.2	39,800 b							70
75	52.4	156.7	36,400 b							75
80	47.1	152.4	33,500	55.6	156.2	31,000 b				80
85	41.2	147.3	30,900	50.5	152.4	28,700 b				85
90	34.5	140.8	28,700	44.9	147.9	26,600				90
95	26.4	132.3	26,600	38.8	142.3	24,700	48.1	147.1	22,800 b	95
100	14.7	119.0	24,800	31.7	135.2	23,000	42.4	142.1	21,300	100
105				22.7	125.5	21,500	35.9	136.0	19,900	105
110				6.4	106.2	20,000	28.2	128.0	18,600	110
115							17.6	116.2	17,400	115



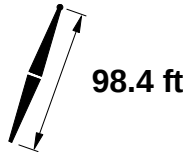
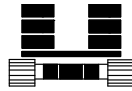
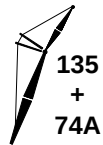
101,400 lb
+
0 lb



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
34	74.1	181.8	93,600 d							34
36	72.6	181.2	93,600 d							36
38	71.1	180.6	93,500 c							38
40	69.6	179.8	93,400 c							40
45	65.7	177.8	82,600 b	71.0	179.7	78,500 c				45
50	61.7	175.3	71,900 b	67.1	177.8	68,300 c				50
55	57.5	172.4	63,500 b	63.2	175.5	60,300 b	67.2	177.0	57,900 c	55
60	53.2	168.9	56,700	59.1	172.7	53,900 b	63.2	174.7	51,700 b	60
65	48.6	164.8	51,200	54.8	169.5	48,600 b	59.1	171.9	46,600 b	65
70	43.6	160.0	46,500	50.3	165.7	44,200	54.9	168.7	42,400 b	70
75	38.1	154.2	42,600	45.5	161.1	40,400	50.4	164.8	38,800	75
80	31.9	147.1	39,200	40.2	155.7	37,200	45.5	160.3	35,700	80
85	24.2	137.7	36,200	34.3	149.2	34,400	40.3	155.0	33,000	85
90	13.0	122.9	33,500	27.3	140.8	31,900	34.4	148.4	30,600	90
95				17.9	128.7	29,600	27.4	140.0	28,400	95
100							18.1	128.1	26,500	100
105										105
110										110
115										115
120										120
125										125

MLC165-1 S-1

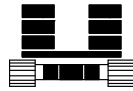
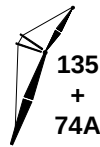
ASME B30.5



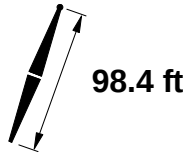
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70	61.9	171.8	39,400 b							70
75	57.7	168.8	36,000 b							75
80	53.4	165.4	33,100							80
85	48.8	161.4	30,600	56.2	164.9	28,300 b				85
90	43.9	156.6	28,400	51.7	161.2	26,200				90
95	38.4	150.9	26,400	47.0	156.9	24,400				95
100	32.2	143.8	24,600	41.9	151.8	22,800	49.7	156.0	20,900	100
105	24.7	134.6	23,000	36.2	145.7	21,300	44.9	151.4	19,500	105
110	13.8	120.3	21,500	29.6	137.9	19,900	39.5	145.9	18,300	110
115				21.2	127.4	18,700	33.5	139.1	17,100	115
120				6.0	106.7	17,400	26.3	130.4	16,100	120
125							16.5	117.7	15,100	125

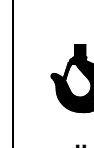
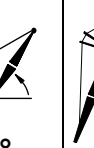
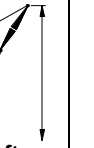
MLC165-1 S-1

ASME B30.5



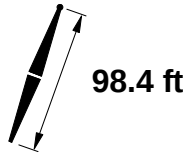
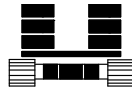
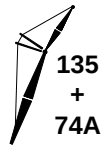
101,400 lb
+
0 lb

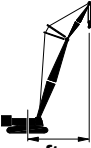
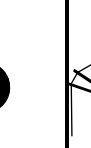
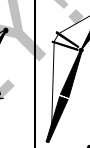


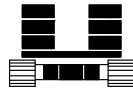
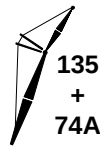
	87°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
36	74.6	191.6	85,000 d							36
38	73.2	191.1	84,900 c							38
40	71.9	190.4	84,800 c							40
45	68.5	188.6	82,400 c							45
50	65.1	186.5	71,700 b	69.8	188.6	68,100 c				50
55	61.5	184.0	63,300 b	66.3	186.6	60,100 b				55
60	57.8	181.0	56,600	62.8	184.2	53,700 b	66.4	185.7	51,500 b	60
65	54.0	177.7	51,100	59.2	181.4	48,400 b	62.9	183.3	46,400 b	65
70	49.9	173.7	46,400	55.4	178.2	44,000	59.2	180.6	42,200 b	70
75	45.6	169.2	42,500	51.4	174.5	40,300	55.5	177.4	38,600	75
80	41.0	163.9	39,100	47.2	170.2	37,100	51.5	173.7	35,500	80
85	35.9	157.6	36,200	42.7	165.2	34,300	47.3	169.4	32,800	85
90	30.0	149.9	33,600	37.8	159.3	31,800	42.8	164.4	30,400	90
95	22.8	139.8	31,200	32.3	152.1	29,600	37.9	158.5	28,300	95
100	12.3	124.0	29,100	25.7	143.1	27,600	32.3	151.4	26,500	100
105				16.9	130.3	25,800	25.8	142.4	24,800	105
110							17.1	129.7	23,200	110
115										115
120										120
125										125
130										130
135										135

MLC165-1 S-1

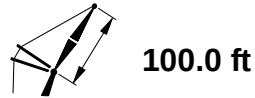
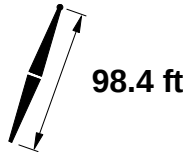
ASME B30.5



	75°			70°			65°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75	61.7	180.4	35,800 b							75
80	58.0	177.5	32,900 b							80
85	54.2	174.2	30,400							85
90	50.1	170.3	28,200	56.6	173.5	26,000				90
95	45.8	165.8	26,300	52.7	170.0	24,200				95
100	41.2	160.5	24,500	48.6	165.9	22,600				100
105	36.1	154.3	22,900	44.2	161.1	21,100	50.9	164.8	19,300	105
110	30.3	146.6	21,500	39.4	155.5	19,800	46.7	160.5	18,100	110
115	23.2	136.7	20,200	34.1	148.8	18,600	42.2	155.4	17,000	115
120	13.0	121.4	18,900	27.9	140.5	17,500	37.2	149.3	15,900	120
125				20.0	129.2	16,400	31.5	142.0	15,000	125
130				5.6	107.3	15,400	24.8	132.7	14,100	130
135							15.5	119.1	13,300	135



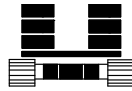
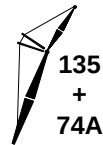
101,400 lb
+
0 lb



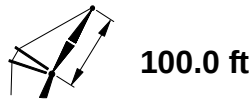
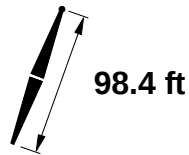
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
38	75.0	201.5	77,200 c							38
40	73.8	200.9	77,000 c							40
45	70.8	199.3	76,000 c							45
50	67.7	197.4	71,500 b							50
55	64.6	195.2	63,100 b	68.8	197.4	59,800 b				55
60	61.4	192.6	56,400	65.7	195.3	53,400 b				60
65	58.0	189.7	50,800	62.5	192.9	48,100 b	65.8	194.4	46,100 b	65
70	54.6	186.4	46,200	59.3	190.1	43,700	62.6	192.0	41,900 b	70
75	51.0	182.6	42,300	55.9	186.9	40,000	59.3	189.2	38,300	75
80	47.2	178.2	38,900	52.3	183.3	36,800	55.9	186.1	35,200	80
85	43.2	173.3	36,000	48.6	179.1	34,000	52.4	182.5	32,500	85
90	38.8	167.5	33,400	44.7	174.4	31,500	48.7	178.3	30,200	90
95	34.0	160.7	31,100	40.4	169.0	29,400	44.7	173.6	28,100	95
100	28.4	152.5	29,000	35.8	162.6	27,400	40.5	168.2	26,200	100
105	21.7	141.8	27,200	30.6	155.0	25,700	35.9	161.8	24,500	105
110	11.6	125.0	25,500	24.3	145.3	24,100	30.6	154.2	23,000	110
115				16.0	131.7	22,600	24.4	144.6	21,600	115
120							16.2	131.1	20,300	120
125										125
130										130
135										135
140										140
145										145

MLC165-1 S-1

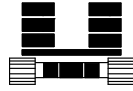
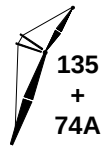
ASME B30.5



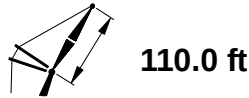
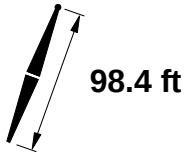
101,400 lb
+
0 lb



	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80	61.5	189.1	32,600							80
85	58.2	186.2	30,100							85
90	54.8	182.9	27,900							90
95	51.2	179.1	25,900	56.9	182.2	23,800				95
100	47.4	174.8	24,200	53.4	178.7	22,200				100
105	43.4	169.9	22,600	49.8	174.8	20,800				105
110	39.0	164.1	21,200	45.9	170.3	19,400	51.9	173.6	17,700	110
115	34.2	157.4	19,900	41.8	165.1	18,300	48.2	169.5	16,600	115
120	28.7	149.2	18,800	37.3	159.0	17,200	44.2	164.7	15,600	120
125	22.0	138.7	17,700	32.3	151.8	16,200	39.9	159.1	14,700	125
130	12.3	122.5	16,600	26.4	142.9	15,200	35.2	152.6	13,800	130
135				19.0	130.9	14,300	29.9	144.8	13,000	135
140				5.3	107.7	13,500	23.5	134.8	12,300	140
145							14.7	120.4	11,500	145



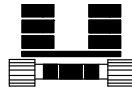
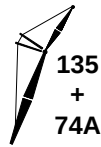
101,400 lb
+
0 lb



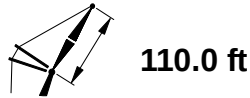
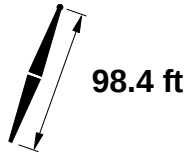
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
45	72.6	209.8	70,400 c							45
50	69.8	208.1	68,000 b							50
55	67.0	206.1	63,000 b	70.8	208.0	59,700 b				55
60	64.2	203.9	56,300	68.1	206.1	53,300 b				60
65	61.2	201.3	50,800	65.2	204.0	48,100				65
70	58.2	198.4	46,100	62.3	201.5	43,700	65.3	203.1	41,800 b	70
75	55.1	195.1	42,200	59.3	198.7	39,900	62.4	200.7	38,200	75
80	51.9	191.4	38,900	56.3	195.6	36,700	59.4	197.9	35,100	80
85	48.5	187.2	35,900	53.1	192.0	34,000	56.3	194.8	32,500	85
90	44.9	182.5	33,400	49.7	188.0	31,500	53.1	191.2	30,100	90
95	41.1	177.1	31,100	46.2	183.5	29,400	49.8	187.2	28,000	95
100	36.9	170.9	29,100	42.5	178.4	27,400	46.3	182.7	26,200	100
105	32.3	163.7	27,200	38.5	172.6	25,700	42.6	177.6	24,500	105
110	27.1	154.9	25,600	34.1	165.7	24,100	38.5	171.8	23,000	110
115	20.6	143.6	24,100	29.1	157.6	22,700	34.2	165.0	21,700	115
120	11.1	126.0	22,600	23.2	147.4	21,400	29.2	156.9	20,400	120
125				15.3	133.1	20,200	23.3	146.7	19,200	125
130							15.4	132.5	18,200	130
135										135
140										140
145										145
150										150
155										155

MLC165-1 S-1

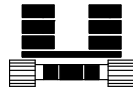
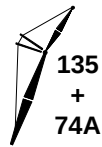
ASME B30.5



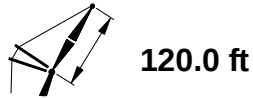
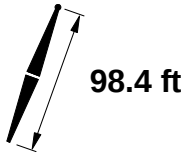
101,400 lb
+
0 lb



	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	61.4	197.7	30,000							85
90	58.4	194.8	27,800							90
95	55.3	191.6	25,900							95
100	52.0	187.9	24,200	57.2	190.9	22,200				100
105	48.6	183.7	22,600	54.1	187.5	20,700				105
110	45.1	179.1	21,200	50.8	183.6	19,400				110
115	41.3	173.7	19,900	47.3	179.3	18,200	52.7	182.4	16,600	115
120	37.1	167.6	18,800	43.7	174.4	17,200	49.3	178.4	15,600	120
125	32.6	160.4	17,700	39.8	168.8	16,200	45.8	173.8	14,700	125
130	27.4	151.7	16,700	35.5	162.3	15,200	42.0	168.6	13,800	130
135	21.0	140.6	15,800	30.7	154.6	14,400	38.0	162.6	13,000	135
140	11.8	123.6	14,900	25.2	145.2	13,600	33.5	155.7	12,300	140
145				18.1	132.6	12,900	28.5	147.4	11,600	145
150				5.1	108.2	12,100	22.4	136.9	11,000	150
155							14.1	121.7	10,300	155



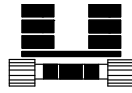
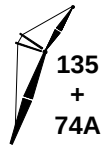
101,400 lb
+
0 lb



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
45	74.1	220.3	64,500 c							45
50	71.6	218.7	62,800 b							50
55	69.0	216.9	60,600 b							55
60	66.5	214.9	56,100	70.0	216.9	53,000 b				60
65	63.8	212.6	50,500	67.4	214.9	47,800				65
70	61.1	210.0	45,900	64.8	212.7	43,400	67.4	214.1	41,500	70
75	58.4	207.0	42,000	62.1	210.2	39,700	64.8	211.8	37,900	75
80	55.5	203.8	38,600	59.4	207.4	36,500	62.2	209.4	34,800	80
85	52.6	200.2	35,700	56.6	204.3	33,700	59.4	206.6	32,200	85
90	49.5	196.1	33,100	53.7	200.8	31,200	56.6	203.4	29,800	90
95	46.3	191.6	30,900	50.6	196.9	29,100	53.7	200.0	27,800	95
100	42.9	186.5	28,800	47.5	192.6	27,200	50.7	196.1	25,900	100
105	39.2	180.8	27,000	44.1	187.7	25,400	47.5	191.7	24,300	105
110	35.3	174.2	25,400	40.6	182.2	23,900	44.2	186.9	22,800	110
115	30.9	166.5	23,900	36.8	176.0	22,500	40.7	181.4	21,400	115
120	25.9	157.3	22,500	32.6	168.7	21,200	36.8	175.2	20,200	120
125	19.7	145.4	21,200	27.8	160.2	20,000	32.7	168.0	19,000	125
130	10.6	127.0	20,000	22.2	149.4	18,900	27.9	159.4	18,000	130
135				14.6	134.4	17,800	22.3	148.7	17,000	135
140							14.8	133.8	16,100	140
145										145
150										150
155										155
160										160
165										165

MLC165-1 S-1

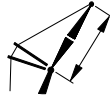
ASME B30.5



101,400 lb
+
0 lb

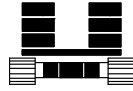
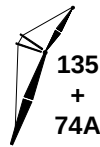


98.4 ft

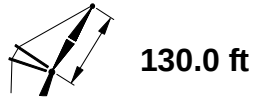
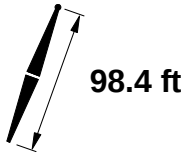


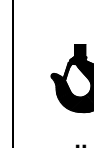
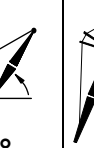
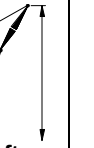
120.0 ft

	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	61.3	206.4	27,500							90
95	58.5	203.5	25,600							95
100	55.7	200.3	23,800							100
105	52.7	196.7	22,300	57.5	199.6	20,400				105
110	49.7	192.6	20,900	54.6	196.2	19,100				110
115	46.4	188.1	19,600	51.6	192.4	17,900				115
120	43.1	183.1	18,500	48.5	188.3	16,800				120
125	39.4	177.4	17,400	45.2	183.6	15,800	50.3	187.2	14,300	125
130	35.5	170.9	16,400	41.7	178.3	14,900	47.1	182.8	13,500	130
135	31.2	163.3	15,500	38.0	172.3	14,100	43.7	177.9	12,700	135
140	26.2	154.1	14,700	33.9	165.4	13,300	40.2	172.3	12,000	140
145	20.1	142.4	13,900	29.4	157.3	12,600	36.3	166.0	11,300	145
150	11.3	124.6	13,100	24.1	147.4	11,900	32.1	158.6	10,700	150
155				17.3	134.1	11,300	27.2	149.9	10,100	155
160				4.9	108.6	10,600	21.4	138.8	9,500	160
165							13.5	122.9	9,000	165



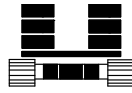
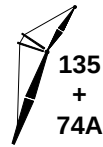
101,400 lb
+
0 lb



	87°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
50	73.0	229.2	48,700 b							50
55	70.7	227.6	47,700 b							55
60	68.4	225.7	46,900							60
65	66.0	223.6	46,100	69.2	225.7	47,500				65
70	63.5	221.2	45,300	66.9	223.6	43,200				70
75	61.0	218.6	41,800	64.4	221.4	39,400	66.9	222.8	37,700	75
80	58.5	215.7	38,400	62.0	218.9	36,200	64.5	220.5	34,600	80
85	55.9	212.5	35,500	59.4	216.1	33,500	62.0	218.0	31,900	85
90	53.2	208.9	33,000	56.8	212.9	31,000	59.5	215.2	29,600	90
95	50.4	205.0	30,700	54.2	209.5	28,900	56.9	212.1	27,500	95
100	47.4	200.6	28,700	51.4	205.7	27,000	54.2	208.7	25,700	100
105	44.4	195.8	26,900	48.5	201.5	25,200	51.4	204.9	24,000	105
110	41.1	190.4	25,200	45.5	196.8	23,700	48.6	200.7	22,600	110
115	37.6	184.3	23,700	42.3	191.7	22,300	45.6	196.0	21,200	115
120	33.9	177.3	22,400	38.9	185.8	21,000	42.4	190.9	20,000	120
125	29.7	169.2	21,100	35.3	179.2	19,800	39.0	185.0	18,800	125
130	24.9	159.5	20,000	31.3	171.6	18,700	35.4	178.5	17,800	130
135	19.0	147.1	18,900	26.7	162.6	17,700	31.3	170.9	16,800	135
140	10.2	127.9	17,900	21.3	151.4	16,800	26.8	161.9	15,900	140
145				14.0	135.7	15,900	21.4	150.7	15,100	145
150							14.2	135.1	14,300	150
155										155
160										160
165										165
170										170
175										175

MLC165-1 S-1

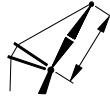
ASME B30.5



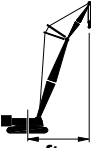
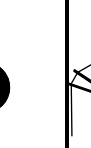
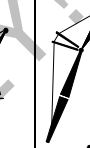
101,400 lb
+
0 lb

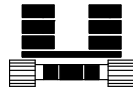
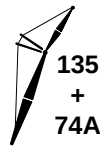


98.4 ft

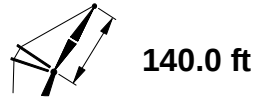
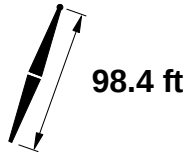


130.0 ft

	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	61.2	215.1	25,300							95
100	58.6	212.2	23,600							100
105	56.0	209.0	22,100							105
110	53.3	205.4	20,700	57.7	208.2	18,800				110
115	50.5	201.5	19,400	55.0	204.9	17,600				115
120	47.6	197.2	18,300	52.3	201.2	16,600				120
125	44.5	192.3	17,200	49.4	197.2	15,600				125
130	41.3	187.0	16,200	46.5	192.6	14,700	51.1	196.1	13,200	130
135	37.8	180.9	15,300	43.3	187.6	13,900	48.2	191.8	12,400	135
140	34.1	174.0	14,500	40.0	182.0	13,100	45.1	187.1	11,700	140
145	29.9	166.0	13,700	36.5	175.7	12,400	41.9	181.8	11,100	145
150	25.1	156.4	13,000	32.6	168.4	11,700	38.5	175.9	10,500	150
155	19.3	144.2	12,300	28.2	159.9	11,100	34.8	169.2	9,900	155
160	10.8	125.6	11,700	23.1	149.5	10,500	30.8	161.4	9,300	160
165				16.6	135.6	9,900	26.1	152.2	8,800	165
170				4.7	109.0	9,300	20.6	140.6	8,300	170
175							12.9	124.0	7,800	175



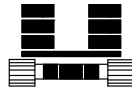
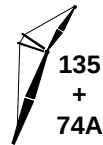
101,400 lb
+
0 lb



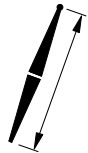
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
50	74.3	239.6	45,600 b							50
55	72.1	238.1	44,800 b							55
60	70.0	236.4	44,000							60
65	67.8	234.5	43,300	70.8	236.3	44,500				65
70	65.6	232.3	42,500	68.6	234.5	42,900				70
75	63.3	229.9	41,200	66.4	232.4	39,200				75
80	61.0	227.3	38,200	64.1	230.1	36,000	66.4	231.5	34,300	80
85	58.6	224.4	35,300	61.8	227.5	33,200	64.2	229.2	31,600	85
90	56.2	221.2	32,700	59.5	224.7	30,800	61.9	226.7	29,300	90
95	53.7	217.7	30,400	57.1	221.6	28,600	59.5	223.9	27,200	95
100	51.1	213.8	28,400	54.6	218.2	26,700	57.1	220.8	25,400	100
105	48.4	209.6	26,600	52.0	214.5	25,000	54.6	217.4	23,700	105
110	45.6	204.9	25,000	49.4	210.4	23,400	52.1	213.7	22,300	110
115	42.7	199.8	23,500	46.6	205.9	22,000	49.4	209.6	20,900	115
120	39.6	194.0	22,100	43.8	200.9	20,700	46.7	205.1	19,700	120
125	36.2	187.6	20,900	40.7	195.4	19,600	43.8	200.2	18,600	125
130	32.6	180.3	19,800	37.5	189.3	18,500	40.8	194.7	17,500	130
135	28.6	171.8	18,700	34.0	182.3	17,500	37.5	188.5	16,600	135
140	24.0	161.7	17,700	30.1	174.3	16,600	34.0	181.6	15,700	140
145	18.3	148.8	16,800	25.7	164.9	15,700	30.2	173.6	14,900	145
150	9.8	128.8	15,900	20.5	153.2	14,900	25.8	164.2	14,100	150
155				13.5	136.9	14,100	20.6	152.5	13,400	155
160							13.7	136.3	12,700	160
165										165
170										170
175										175
180										180
185										185

MLC165-1 S-1

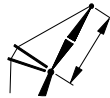
ASME B30.5



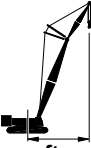
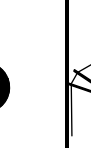
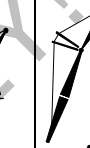
101,400 lb
+
0 lb

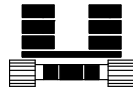
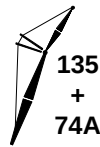


98.4 ft

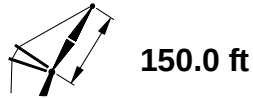
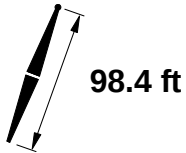


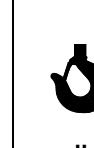
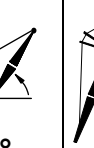
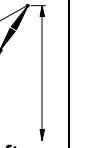
140.0 ft

	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										95
100	61.1	223.7	23,300							100
105	58.7	220.8	21,700							105
110	56.3	217.7	20,300							110
115	53.8	214.2	19,100	57.8	216.9	17,300				115
120	51.2	210.3	17,900	55.4	213.6	16,200				120
125	48.5	206.1	16,900	52.8	210.0	15,300				125
130	45.8	201.5	15,900	50.2	206.0	14,400				130
135	42.8	196.3	15,000	47.5	201.7	13,500	51.7	204.9	12,100	135
140	39.7	190.6	14,200	44.7	196.8	12,800	49.1	200.7	11,400	140
145	36.4	184.3	13,500	41.7	191.5	12,100	46.3	196.2	10,700	145
150	32.8	177.0	12,700	38.5	185.6	11,400	43.4	191.2	10,100	150
155	28.8	168.6	12,100	35.1	178.9	10,800	40.3	185.6	9,500	155
160	24.2	158.6	11,400	31.4	171.3	10,200	37.1	179.3	9,000	160
165	18.6	145.8	10,800	27.2	162.3	9,700	33.5	172.3	8,500	165
170	10.4	126.5	10,200	22.3	151.5	9,100	29.6	164.1	8,000	170
175				16.0	137.0	8,600	25.2	154.5	7,600	175
180				4.5	109.4	8,100	19.8	142.4	7,100	180
185							12.5	125.1	6,700	185



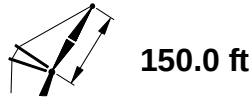
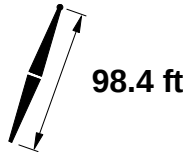
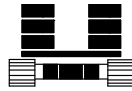
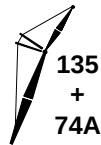
101,400 lb
+
0 lb



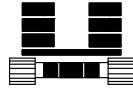
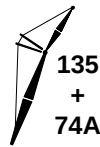
	87°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
55	73.4	248.6	42,000 b							55
60	71.4	247.0	41,300							60
65	69.3	245.2	40,600							65
70	67.3	243.2	39,500	70.1	245.1	40,900				70
75	65.2	241.0	38,000	68.0	243.2	39,000				75
80	63.1	238.6	36,500	66.0	241.1	35,800				80
85	60.9	235.9	35,100	63.9	238.8	33,100	66.0	240.3	31,500	85
90	58.7	233.0	32,600	61.7	236.2	30,600	63.9	237.9	29,200	90
95	56.4	229.9	30,300	59.5	233.4	28,500	61.7	235.4	27,100	95
100	54.1	226.4	28,300	57.3	230.3	26,600	59.5	232.5	25,300	100
105	51.7	222.6	26,500	55.0	226.9	24,900	57.3	229.5	23,600	105
110	49.2	218.5	24,900	52.6	223.3	23,300	55.0	226.1	22,200	110
115	46.7	214.0	23,400	50.2	219.3	21,900	52.6	222.5	20,800	115
120	44.0	209.0	22,100	47.6	214.9	20,700	50.2	218.5	19,600	120
125	41.2	203.6	20,800	45.0	210.1	19,500	47.7	214.1	18,500	125
130	38.2	197.6	19,700	42.2	204.9	18,400	45.0	209.3	17,400	130
135	35.0	190.8	18,700	39.3	199.1	17,400	42.3	204.1	16,500	135
140	31.5	183.2	17,700	36.2	192.6	16,500	39.3	198.3	15,600	140
145	27.6	174.3	16,800	32.8	185.3	15,700	36.2	191.8	14,800	145
150	23.1	163.8	15,900	29.1	177.0	14,900	32.8	184.6	14,000	150
155	17.6	150.3	15,100	24.9	167.1	14,100	29.1	176.2	13,300	155
160	9.5	129.6	14,400	19.8	155.0	13,400	24.9	166.4	12,600	160
165				13.1	138.0	12,700	19.9	154.3	12,000	165
170							13.2	137.5	11,400	170
175										175
180										180
185										185
190										190
195										195

MLC165-1 S-1

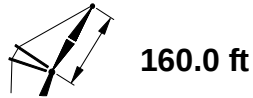
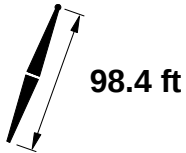
ASME B30.5



	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	61.0	232.4	21,600							105
110	58.8	229.5	20,200							110
115	56.5	226.3	19,000							115
120	54.2	222.9	17,800	58.0	225.6	16,100				120
125	51.8	219.1	16,800	55.7	222.3	15,200				125
130	49.4	215.0	15,800	53.3	218.7	14,300				130
135	46.8	210.5	15,000	50.9	214.9	13,500				135
140	44.1	205.6	14,100	48.4	210.6	12,700	52.3	213.7	11,300	140
145	41.3	200.2	13,400	45.8	206.0	12,000	49.9	209.6	10,600	145
150	38.3	194.2	12,700	43.1	200.9	11,300	47.3	205.2	10,000	150
155	35.1	187.5	12,000	40.2	195.2	10,700	44.7	200.4	9,500	155
160	31.7	179.9	11,400	37.2	189.0	10,100	41.9	195.1	8,900	160
165	27.8	171.1	10,800	33.9	182.0	9,600	38.9	189.2	8,400	165
170	23.4	160.7	10,200	30.3	174.0	9,100	35.8	182.6	8,000	170
175	18.0	147.4	9,700	26.2	164.7	8,600	32.4	175.2	7,500	175
180	10.1	127.4	9,200	21.5	153.4	8,100	28.6	166.7	7,100	180
185				15.5	138.4	7,700	24.3	156.7	6,700	185
190				4.4	109.8	7,200	19.1	144.1	6,300	190
195							12.0	126.2	5,900	195



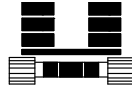
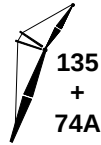
101,400 lb
+
0 lb



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
55	74.4	259.0	39,100 b							55
60	72.6	257.5	38,400							60
65	70.7	255.9	37,600							65
70	68.8	254.0	36,100							70
75	66.8	252.0	34,700	69.5	254.0	36,600				75
80	64.9	249.7	33,200	67.5	252.0	35,200				80
85	62.9	247.3	31,900	65.6	249.8	32,800	67.6	251.1	31,200	85
90	60.9	244.6	30,500	63.6	247.4	30,400	65.6	249.0	28,900	90
95	58.8	241.7	29,200	61.6	244.9	28,200	63.6	246.6	26,800	95
100	56.7	238.5	27,900	59.5	242.0	26,300	61.6	244.0	25,000	100
105	54.5	235.1	26,300	57.4	239.0	24,600	59.6	241.2	23,400	105
110	52.3	231.4	24,700	55.3	235.6	23,100	57.5	238.1	21,900	110
115	50.0	227.4	23,200	53.1	232.0	21,700	55.3	234.8	20,500	115
120	47.6	223.0	21,800	50.8	228.1	20,400	53.1	231.2	19,300	120
125	45.1	218.2	20,600	48.5	223.9	19,200	50.8	227.3	18,200	125
130	42.5	213.0	19,500	46.0	219.2	18,100	48.5	223.1	17,200	130
135	39.8	207.3	18,400	43.5	214.2	17,200	46.1	218.4	16,200	135
140	36.9	200.9	17,500	40.8	208.7	16,200	43.5	213.4	15,300	140
145	33.8	193.9	16,600	38.0	202.6	15,400	40.9	207.9	14,500	145
150	30.4	185.9	15,700	35.0	195.8	14,600	38.0	201.8	13,800	150
155	26.7	176.8	14,900	31.7	188.2	13,900	35.0	195.1	13,100	155
160	22.4	165.8	14,200	28.1	179.5	13,200	31.8	187.5	12,400	160
165	17.1	151.9	13,500	24.1	169.3	12,500	28.2	178.8	11,800	165
170	9.2	130.4	12,800	19.2	156.7	11,900	24.1	168.6	11,200	170
175				12.7	139.2	11,300	19.3	156.0	10,600	175
180							12.8	138.6	10,100	180
185										185
190										190
195										195
200										200
205										205

MLC165-1 S-1

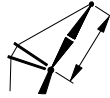
ASME B30.5



101,400 lb
+
0 lb

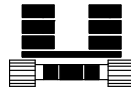
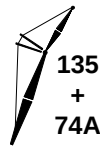


98.4 ft

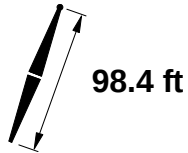


160.0 ft

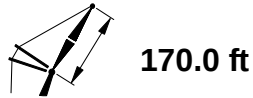
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105	63.0	243.7	21,300							105
110	61.0	241.1	19,900							110
115	58.9	238.2	18,700							115
120	56.8	235.0	17,500							120
125	54.6	231.6	16,500							125
130	52.4	227.9	15,500	56.0	231.0	13,900				130
135	50.1	223.9	14,600	53.8	227.5	13,100				135
140	47.7	219.5	13,800	51.5	223.7	12,400				140
145	45.2	214.8	13,100	49.2	219.5	11,700	52.8	222.4	10,300	145
150	42.6	209.6	12,400	46.8	215.0	11,000	50.5	218.5	9,700	150
155	39.9	203.9	11,700	44.3	210.1	10,400	48.2	214.2	9,100	155
160	37.1	197.6	11,100	41.6	204.7	9,800	45.7	209.5	8,600	160
165	34.0	190.6	10,500	38.9	198.8	9,300	43.2	204.4	8,100	165
170	30.6	182.7	10,000	35.9	192.3	8,800	40.5	198.8	7,600	170
175	26.9	173.6	9,500	32.8	185.0	8,300	37.6	192.7	7,200	175
180	22.6	162.7	9,000	29.3	176.7	7,900	34.6	185.8	6,800	180
185	17.4	149.0	8,500	25.4	167.0	7,400	31.3	178.1	6,400	185
190	9.7	128.2	8,000	20.8	155.3	7,000	27.7	169.2	6,000	190
195				15.0	139.8	6,600	23.5	158.8	5,600	195
200				4.2	110.2	6,200	18.5	145.8	5,300	200
205							11.6	127.2	4,900	205



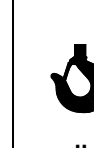
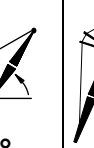
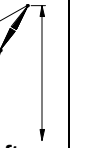
101,400 lb
+
0 lb



98.4 ft

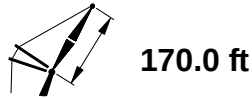
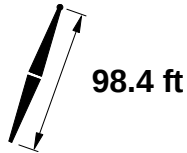
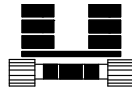
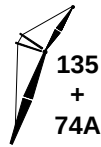


170.0 ft

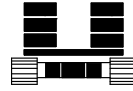
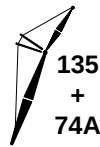
	87°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
60	73.6	268.0	35,700							60
65	71.9	266.4	34,700							65
70	70.1	264.7	33,300							70
75	68.3	262.8	31,900	70.7	264.6	33,600				75
80	66.4	260.7	30,500	68.9	262.8	32,400				80
85	64.6	258.4	29,200	67.1	260.7	31,100				85
90	62.7	256.0	27,900	65.3	258.5	29,800	67.1	259.9	28,600	90
95	60.8	253.3	26,700	63.4	256.1	28,000	65.3	257.7	26,600	95
100	58.9	250.4	25,500	61.5	253.5	26,100	63.4	255.3	24,800	100
105	56.9	247.2	24,300	59.6	250.7	24,400	61.5	252.7	23,100	105
110	54.8	243.8	23,100	57.6	247.6	22,800	59.6	249.9	21,600	110
115	52.7	240.2	22,000	55.6	244.3	21,400	57.6	246.8	20,300	115
120	50.6	236.2	21,000	53.5	240.8	20,200	55.6	243.5	19,100	120
125	48.4	231.9	19,900	51.4	236.9	19,000	53.5	240.0	18,000	125
130	46.1	227.3	19,000	49.2	232.8	17,900	51.4	236.1	16,900	130
135	43.7	222.3	18,000	46.9	228.3	17,000	49.2	232.0	16,000	135
140	41.2	216.8	17,100	44.6	223.4	16,000	47.0	227.5	15,100	140
145	38.6	210.8	16,300	42.1	218.1	15,200	44.6	222.6	14,300	145
150	35.8	204.2	15,500	39.5	212.3	14,400	42.2	217.3	13,600	150
155	32.8	196.9	14,600	36.8	206.0	13,700	39.6	211.5	12,900	155
160	29.5	188.6	13,600	33.9	198.9	13,000	36.9	205.2	12,200	160
165	25.9	179.1	12,700	30.7	191.0	12,300	33.9	198.2	11,600	165
170	21.7	167.7	11,800	27.3	182.0	11,700	30.8	190.3	11,000	170
175	16.6	153.3	11,000	23.3	171.4	11,100	27.3	181.3	10,400	175
180	8.9	131.2	10,400	18.6	158.4	10,600	23.4	170.7	9,900	180
185				12.3	140.3	10,100	18.7	157.7	9,400	185
190							12.4	139.7	8,900	190
195										195
200										200
205										205
210										210
215										215

MLC165-1 S-1

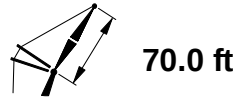
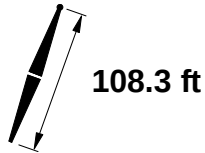
ASME B30.5



	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	62.8	252.4	19,700							110
115	60.9	249.7	18,400							115
120	59.0	246.8	17,300							120
125	57.0	243.7	16,200							125
130	54.9	240.3	15,300							130
135	52.8	236.7	14,400	56.2	239.7	12,900				135
140	50.7	232.7	13,600	54.2	236.2	12,100				140
145	48.5	228.5	12,900	52.0	232.5	11,400				145
150	46.2	223.9	12,100	49.9	228.4	10,800				150
155	43.8	218.9	11,500	47.6	224.0	10,200	51.1	227.3	8,900	155
160	41.3	213.4	10,900	45.3	219.3	9,600	48.9	223.1	8,300	160
165	38.7	207.5	10,300	42.9	214.1	9,100	46.6	218.6	7,900	165
170	35.9	200.9	9,800	40.4	208.5	8,600	44.3	213.6	7,400	170
175	32.9	193.6	9,300	37.7	202.3	8,100	41.8	208.3	7,000	175
180	29.7	185.4	8,800	34.8	195.5	7,600	39.2	202.4	6,500	180
185	26.1	175.9	8,300	31.8	187.9	7,200	36.5	196.0	6,200	185
190	21.9	164.7	7,900	28.4	179.2	6,800	33.5	188.9	5,700	190
195	16.9	150.5	7,500	24.6	169.2	6,400	30.4	180.8	5,300	195
200	9.4	129.1	7,000	20.2	157.1	6,100	26.8	171.7	5,000	200
205				14.5	141.1	5,700	22.8	160.9	4,600	205
210				4.1	110.6	5,300	18.0	147.4	4,200	210
215							11.3	128.2	3,900	215



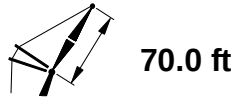
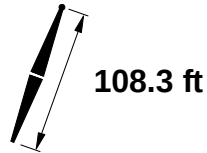
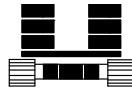
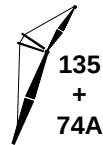
101,400 lb
+
0 lb

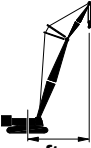
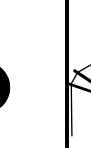
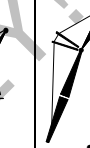


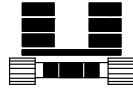
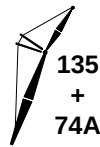
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
32	73.9	182.0	98,100 d							32
34	72.2	181.3	98,100 d							34
36	70.4	180.7	98,100 d							36
38	68.7	179.9	98,000 c							38
40	66.9	179.1	96,700 c							40
45	62.4	176.7	82,600 c	69.2	179.3	78,100 c				45
50	57.7	173.9	71,900 b	64.7	177.2	68,000 c				50
55	52.7	170.4	63,500 b	60.1	174.6	60,100 b	65.2	176.5	57,500 c	55
60	47.4	166.2	56,800	55.2	171.4	53,700 b	60.6	173.9	51,400 b	60
65	41.5	161.1	51,200	50.1	167.6	48,400 b	55.8	170.8	46,300 b	65
70	34.9	154.7	46,600	44.5	163.0	44,000	50.7	167.1	42,100 b	70
75	26.9	146.4	42,600	38.3	157.3	40,300	45.2	162.6	38,500	75
80	15.6	133.5	39,100	31.1	150.1	37,000	39.1	157.1	35,400	80
85				22.0	140.1	34,200	32.1	150.1	32,700	85
90				2.8	117.3	31,500	23.2	140.5	30,300	90
95							8.0	122.6	28,100	95
100										100
105										105
110										110
115										115
120										120

MLC165-1 S-1

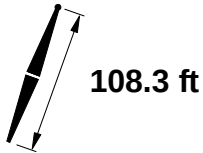
ASME B30.5



	75°			70°			65°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
32										32
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70	59.9	171.2	38,900 b							70
75	55.0	168.0	35,600 b							75
80	49.8	164.2	32,700 b							80
85	44.2	159.5	30,200	53.9	164.3	27,800 b				85
90	38.0	153.8	28,000	48.7	160.3	25,700 b				90
95	30.8	146.5	26,100	43.0	155.4	23,900	52.6	159.5	21,800 b	95
100	21.5	136.3	24,300	36.6	149.4	22,300	47.2	155.2	20,300	100
105				29.0	141.7	20,800	41.4	150.1	19,000	105
110				19.0	130.4	19,500	34.7	143.7	17,800	110
115							26.7	135.3	16,600	115
120							15.2	122.2	15,600	120



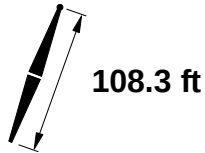
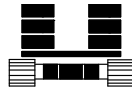
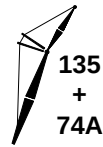
101,400 lb
+
0 lb

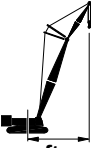
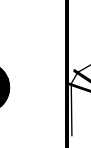
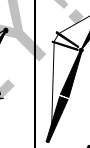


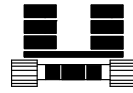
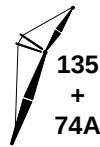
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
34	74.5	191.8	90,100 d							34
36	73.0	191.2	90,100 d							36
38	71.5	190.6	89,900 c							38
40	70.0	189.9	89,900 c							40
45	66.1	187.8	82,300 c							45
50	62.1	185.4	71,700 b	68.0	188.1	67,700 c				50
55	58.0	182.5	63,300 b	64.1	185.9	59,800 b				55
60	53.6	179.1	56,600	60.1	183.2	53,400 b	64.6	185.2	51,000 b	60
65	49.1	175.1	51,000	55.8	180.1	48,200 b	60.6	182.6	46,000 b	65
70	44.1	170.4	46,400	51.4	176.4	43,800	56.4	179.5	41,800 b	70
75	38.7	164.7	42,500	46.7	172.1	40,100	51.9	175.9	38,300	75
80	32.6	157.8	39,100	41.5	166.9	36,900	47.2	171.7	35,200	80
85	25.1	148.7	36,100	35.8	160.6	34,100	42.1	166.6	32,500	85
90	14.6	134.8	33,400	29.1	152.8	31,600	36.5	160.5	30,200	90
95				20.5	142.0	29,400	29.9	152.9	28,100	95
100				2.6	117.6	27,200	21.7	142.5	26,200	100
105							7.4	123.3	24,400	105
110										110
115										115
120										120
125										125
130										130

MLC165-1 S-1

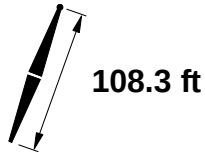
ASME B30.5

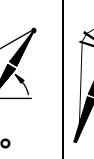


	75°			70°			65°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75	59.9	179.9	35,200 b							75
80	55.6	176.7	32,400 b							80
85	51.2	173.0	29,900							85
90	46.4	168.7	27,700	54.7	173.0	25,400 b				90
95	41.3	163.4	25,800	50.2	169.1	23,600				95
100	35.5	157.1	24,100	45.4	164.6	22,000				100
105	28.7	149.2	22,500	40.1	159.2	20,600	48.9	164.2	18,600	105
110	20.1	138.1	21,100	34.2	152.6	19,300	44.0	159.4	17,400	110
115				27.1	144.1	18,100	38.6	153.8	16,300	115
120				17.7	132.0	16,900	32.4	146.7	15,300	120
125							24.9	137.6	14,400	125
130							14.2	123.5	13,500	130



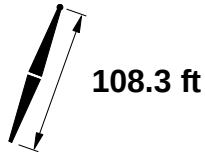
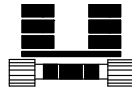
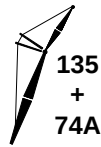
101,400 lb
+
0 lb

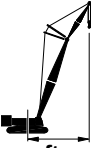
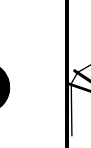
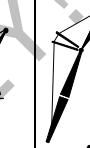


	87°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
36	74.9	201.6	81,400 d							36
38	73.6	201.0	81,300 c							38
40	72.3	200.4	81,200 c							40
45	68.9	198.7	80,600 c							45
50	65.4	196.6	71,500 b	70.6	198.8	67,500 c				50
55	61.9	194.1	63,100 b	67.2	196.8	59,600 b				55
60	58.2	191.2	56,400 b	63.7	194.6	53,200 b	67.6	196.1	50,800 b	60
65	54.4	187.9	50,900	60.1	191.9	48,000 b	64.1	193.9	45,800 b	65
70	50.4	184.0	46,300	56.3	188.8	43,600	60.5	191.3	41,600 b	70
75	46.1	179.5	42,400	52.4	185.2	39,900	56.8	188.2	38,100	75
80	41.5	174.3	39,000	48.3	181.0	36,700	52.9	184.7	35,000	80
85	36.4	168.1	36,100	43.8	176.2	33,900	48.8	180.6	32,400	85
90	30.7	160.6	33,500	39.0	170.6	31,500	44.4	175.9	30,000	90
95	23.7	150.8	31,100	33.7	163.8	29,300	39.6	170.3	27,900	95
100	13.7	136.1	29,000	27.4	155.3	27,400	34.3	163.7	26,100	100
105				19.4	143.7	25,600	28.2	155.4	24,400	105
110				2.5	117.8	23,900	20.5	144.4	22,900	110
115							7.0	123.9	21,400	115
120										120
125										125
130										130
135										135
140										140

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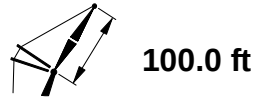
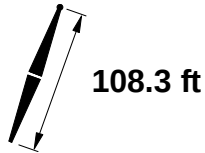
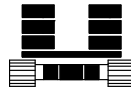
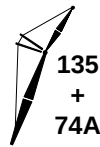
ASME B30.5

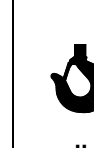
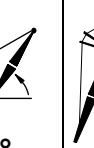
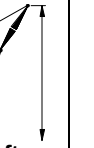


	75°			70°			65°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85	59.9	188.6	32,200 b							85
90	56.1	185.4	29,700							90
95	52.2	181.8	27,600							95
100	48.1	177.6	25,600	55.3	181.7	23,400				100
	43.6	172.8	23,900	51.4	178.0	21,800				
105	38.8	167.1	22,400	47.2	173.7	20,400				105
110	33.4	160.2	21,000	42.7	168.6	19,100	50.3	173.1	17,200	110
115	27.1	151.6	19,700	37.7	162.7	17,900	46.0	168.6	16,100	115
120	18.9	139.8	18,500	32.2	155.6	16,800	41.4	163.4	15,200	120
125				25.6	146.5	15,800	36.3	157.1	14,300	125
130				16.7	133.5	14,900	30.5	149.6	13,400	130
135							23.5	139.7	12,600	135
140							13.4	124.7	11,900	140

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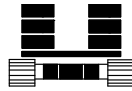
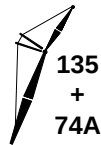
ASME B30.5



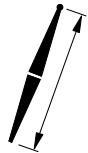
	87°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
40	74.1	210.9	74,500 c							40
45	71.1	209.3	74,100 c							45
50	68.0	207.4	71,300 b							50
55	64.9	205.3	62,900 b	69.6	207.6	59,300 b				55
60	61.7	202.7	56,200	66.5	205.6	52,900 b				60
65	58.4	199.9	50,700	63.3	203.2	47,700 b	66.8	204.9	45,500 b	65
70	55.0	196.6	46,100	60.1	200.5	43,300	63.7	202.6	41,300 b	70
75	51.4	192.8	42,200	56.7	197.5	39,600	60.4	199.9	37,700	75
80	47.6	188.5	38,800	53.2	194.0	36,400	57.1	196.9	34,700	80
85	43.6	183.7	35,900	49.5	190.0	33,700	53.6	193.4	32,100	85
90	39.3	178.0	33,300	45.6	185.4	31,200	50.0	189.5	29,700	90
95	34.5	171.3	31,000	41.5	180.1	29,100	46.1	185.0	27,700	95
100	29.0	163.2	28,900	37.0	174.0	27,200	42.0	179.8	25,800	100
105	22.4	152.9	27,100	31.9	166.7	25,400	37.5	173.8	24,200	105
110	13.0	137.2	25,400	26.0	157.7	23,900	32.5	166.7	22,700	110
115				18.4	145.4	22,400	26.7	157.9	21,300	115
120				2.4	118.0	21,000	19.4	146.1	20,000	120
125							6.7	124.5	18,800	125
130										130
135										135
140										140
145										145
150										150

MLC165-1 S-1

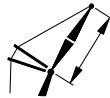
ASME B30.5



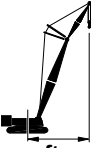
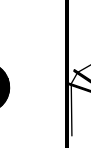
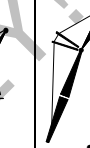
101,400 lb
+
0 lb



108.3 ft

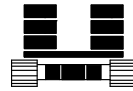
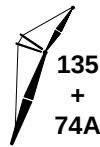


100.0 ft

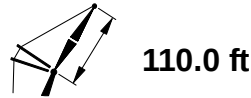
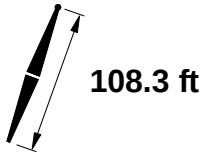
	75°			70°			65°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85	59.9	197.2	29,400							85
90	56.5	194.1	27,200							90
95	53.0	190.6	25,300							95
100	49.4	186.6	23,600	55.8	190.4	21,400				100
105	45.5	182.0	22,100	52.3	186.8	20,000				105
110	41.3	176.7	20,700	48.6	182.6	18,700				110
115	36.7	170.5	19,400	44.6	177.9	17,600	51.3	181.9	15,800	115
120	31.6	163.1	18,300	40.4	172.4	16,500	47.5	177.6	14,800	120
125	25.7	154.0	17,200	35.7	166.0	15,500	43.5	172.7	13,900	125
130	17.9	141.5	16,200	30.5	158.4	14,600	39.2	167.0	13,100	130
135				24.2	148.7	13,800	34.4	160.3	12,300	135
140				15.9	135.0	13,000	28.9	152.2	11,600	140
145							22.3	141.8	10,900	145
150							12.7	125.9	10,300	150

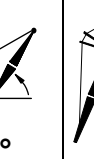
MLC165-1 S-1

ASME B30.5



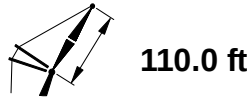
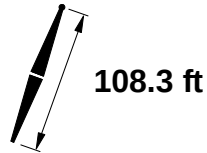
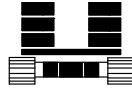
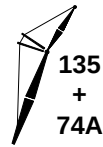
101,400 lb
+
0 lb

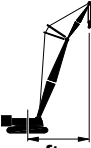
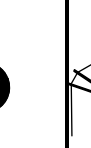
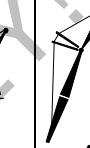


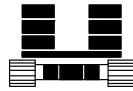
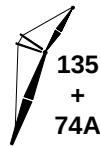
	87°			83°			80°			
										
	ft	ft	ft	lb	ft	ft	lb	ft	ft	ft
45		72.9	219.8	68,300 c						45
50		70.1	218.1	67,100 b						50
55		67.3	216.2	62,800 b						55
60		64.5	214.0	56,100	68.7	216.4	52,800 b			60
65		61.5	211.4	50,600	65.9	214.3	47,600 b			65
70		58.5	208.5	46,000	63.0	211.9	43,300	66.2	213.6	70
75		55.4	205.3	42,100	60.1	209.2	39,600	63.4	211.3	75
80		52.2	201.6	38,700	57.0	206.1	36,400	60.4	208.6	80
85		48.8	197.5	35,800	53.8	202.7	33,600	57.4	205.6	85
90		45.3	192.8	33,300	50.5	198.8	31,200	54.2	202.2	90
95		41.5	187.5	31,000	47.1	194.4	29,100	50.9	198.3	95
100		37.4	181.5	29,000	43.4	189.5	27,200	47.5	194.0	100
105		32.8	174.3	27,100	39.5	183.8	25,400	43.9	189.1	105
110		27.7	165.8	25,500	35.2	177.3	23,900	40.0	183.6	110
115		21.4	154.8	24,000	30.4	169.5	22,500	35.7	177.1	115
120		12.4	138.3	22,600	24.7	159.9	21,200	31.0	169.5	120
125					17.5	146.9	20,000	25.5	160.2	125
130					2.2	118.2	18,800	18.5	147.8	130
135								6.3	125.1	135
140										140
145										145
150										150
155										155
160										160

MLC165-1 S-1

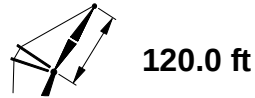
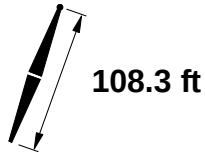
ASME B30.5



	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	62.9	208.6	29,300							85
90	59.9	205.9	27,200							90
95	56.9	202.8	25,300							95
100	53.7	199.3	23,600							100
105	50.4	195.4	22,000	56.2	199.1	20,000				105
110	46.9	191.0	20,700	53.0	195.5	18,700				110
115	43.2	186.0	19,400	49.7	191.5	17,500				115
120	39.3	180.3	18,300	46.2	187.0	16,500	52.1	190.7	14,800	120
125	35.0	173.7	17,200	42.4	181.9	15,500	48.7	186.6	13,900	125
130	30.1	165.9	16,300	38.4	176.0	14,700	45.2	181.9	13,100	130
135	24.4	156.2	15,400	34.0	169.2	13,800	41.4	176.6	12,300	135
140	17.1	143.0	14,500	29.0	161.0	13,100	37.3	170.5	11,600	140
145				23.1	150.8	12,300	32.7	163.3	11,000	145
150				15.1	136.3	11,700	27.5	154.7	10,400	150
155							21.2	143.7	9,800	155
160							12.1	127.0	9,200	160



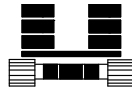
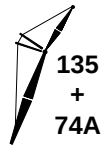
101,400 lb
+
0 lb



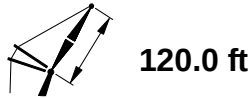
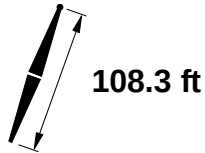
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
45	74.3	230.2	62,500 c							45
50	71.8	228.7	62,100 b							50
55	69.3	227.0	59,900 b							55
60	66.7	224.9	55,900	70.6	227.1	52,500 b				60
65	64.1	222.6	50,400	68.0	225.2	47,300 b				65
70	61.4	220.1	45,800	65.4	223.0	43,000				70
75	58.7	217.2	41,900	62.8	220.6	39,300	65.7	222.3	37,400	75
80	55.8	214.0	38,500	60.1	217.9	36,100	63.1	219.9	34,300	80
85	52.9	210.4	35,600	57.3	214.8	33,400	60.4	217.2	31,700	85
90	49.8	206.4	33,000	54.4	211.4	30,900	57.6	214.2	29,400	90
95	46.6	201.9	30,800	51.4	207.6	28,800	54.7	210.9	27,300	95
100	43.2	196.9	28,700	48.2	203.4	26,900	51.7	207.1	25,500	100
105	39.6	191.2	26,900	45.0	198.7	25,200	48.6	203.0	23,900	105
110	35.7	184.8	25,300	41.5	193.4	23,600	45.4	198.3	22,400	110
115	31.4	177.2	23,800	37.7	187.3	22,200	41.9	193.1	21,100	115
120	26.5	168.2	22,400	33.6	180.3	21,000	38.2	187.1	19,800	120
125	20.5	156.6	21,200	29.0	172.1	19,800	34.1	180.3	18,700	125
130	11.9	139.4	20,000	23.7	162.0	18,700	29.6	172.2	17,700	130
135				16.7	148.4	17,700	24.4	162.4	16,700	135
140				2.1	118.4	16,600	17.7	149.4	15,800	140
145							6.1	125.6	14,900	145
150										150
155										155
160										160
165										165
170										170

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ASME B30.5



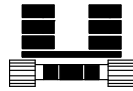
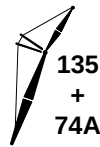
101,400 lb
+
0 lb



	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	62.6	217.3	26,800							90
95	59.9	214.5	24,900							95
100	57.1	211.5	23,200							100
105	54.2	208.1	21,700							105
110	51.2	204.3	20,300	56.5	207.8	18,300				110
115	48.1	200.0	19,100	53.6	204.3	17,200				115
120	44.8	195.3	18,000	50.6	200.4	16,100				120
125	41.3	189.9	16,900	47.4	196.0	15,200	52.8	199.5	13,500	125
130	37.5	183.8	16,000	44.1	191.2	14,300	49.7	195.5	12,700	130
135	33.4	176.8	15,100	40.5	185.7	13,500	46.5	191.0	12,000	135
140	28.8	168.5	14,300	36.7	179.4	12,800	43.2	185.9	11,300	140
145	23.4	158.3	13,500	32.5	172.2	12,100	39.5	180.3	10,600	145
150	16.4	144.5	12,800	27.8	163.5	11,400	35.6	173.8	10,000	150
155				22.1	152.8	10,800	31.3	166.2	9,500	155
160				14.5	137.6	10,200	26.3	157.1	8,900	160
165							20.3	145.5	8,400	165
170							11.6	128.0	7,900	170

MLC165-1 S-1

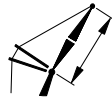
ASME B30.5



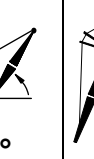
101,400 lb
+
0 lb



108.3 ft

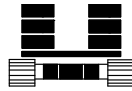
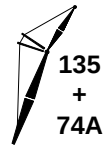


130.0 ft

	87°			83°			80°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
50	73.3	239.2	47,700 b							50
55	71.0	237.6	46,900 b							55
60	68.6	235.7	46,100							60
65	66.2	233.7	45,300	69.8	235.9	46,900 b				65
70	63.8	231.3	44,600	67.4	233.9	42,700				70
75	61.3	228.7	41,700	65.0	231.7	39,100	67.7	233.2	37,100	75
80	58.8	225.8	38,300	62.6	229.3	35,900	65.3	231.0	34,100	80
85	56.1	222.7	35,400	60.0	226.5	33,100	62.9	228.6	31,500	85
90	53.4	219.1	32,800	57.5	223.5	30,700	60.3	225.9	29,200	90
95	50.7	215.2	30,600	54.8	220.1	28,600	57.8	222.9	27,100	95
100	47.7	210.9	28,600	52.1	216.4	26,700	55.1	219.6	25,300	100
105	44.7	206.1	26,800	49.2	212.3	25,000	52.4	215.9	23,700	105
110	41.5	200.8	25,100	46.2	207.8	23,400	49.6	211.9	22,200	110
115	38.0	194.8	23,600	43.1	202.7	22,100	46.6	207.4	20,900	115
120	34.3	187.9	22,300	39.8	197.1	20,800	43.5	202.4	19,600	120
125	30.1	180.0	21,100	36.2	190.7	19,600	40.2	196.8	18,500	125
130	25.4	170.5	19,900	32.3	183.3	18,500	36.6	190.5	17,500	130
135	19.7	158.4	18,800	27.9	174.7	17,500	32.8	183.3	16,500	135
140	11.4	140.4	17,800	22.7	164.1	16,600	28.4	174.8	15,700	140
145				16.1	149.9	15,700	23.4	164.5	14,800	145
150				2.1	118.6	14,800	17.0	150.9	14,100	150
155							5.8	126.1	13,300	155
160										160
165										165
170										170
175										175
180										180

MLC165-1 S-1

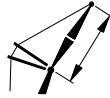
ASME B30.5



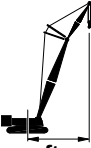
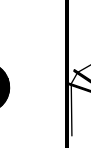
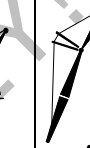
101,400 lb
+
0 lb



108.3 ft

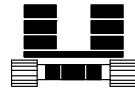
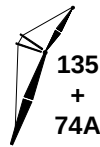


130.0 ft

	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	62.4	225.9	24,700							95
100	59.9	223.2	23,000							100
105	57.3	220.1	21,500							105
110	54.7	216.8	20,100							110
115	51.9	213.1	18,900	56.8	216.4	16,900				115
120	49.1	208.9	17,800	54.1	213.0	15,900				120
125	46.1	204.4	16,700	51.4	209.2	15,000				125
130	43.0	199.3	15,800	48.5	205.0	14,100				130
135	39.6	193.6	14,900	45.5	200.3	13,300	50.6	204.3	11,700	135
140	36.0	187.1	14,100	42.3	195.1	12,500	47.7	200.0	11,000	140
145	32.1	179.7	13,300	38.9	189.3	11,900	44.6	195.2	10,400	145
150	27.7	171.0	12,600	35.2	182.6	11,200	41.4	189.8	9,800	150
155	22.5	160.3	12,000	31.2	175.0	10,600	37.9	183.8	9,300	155
160	15.7	145.9	11,300	26.6	166.0	10,000	34.2	176.9	8,700	160
165				21.2	154.7	9,500	30.0	168.9	8,200	165
170				13.9	138.9	8,900	25.3	159.4	7,800	170
175							19.5	147.3	7,300	175
180							11.1	129.0	6,900	180

MLC165-1 S-1

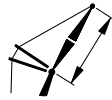
ASME B30.5



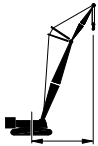
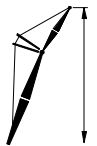
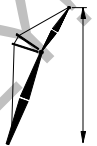
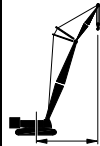
101,400 lb
+
0 lb



108.3 ft

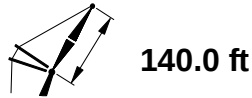
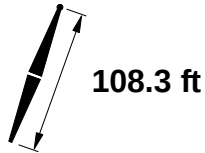
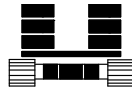
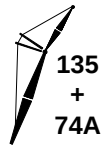


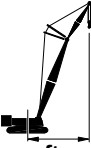
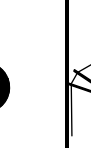
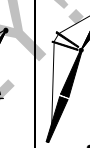
140.0 ft

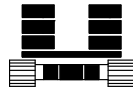
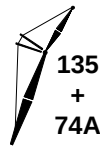
	 87°			 83°			 80°			
	 ft	 ft	 lb	 ft	 ft	 lb	 ft	 ft	 lb	 ft
50	74.5	249.6	44,800 b							50
55	72.4	248.1	44,000 b							55
60	70.2	246.4	43,200							60
65	68.0	244.5	42,500							65
70	65.8	242.4	41,900	69.1	244.7	42,500				70
75	63.5	240.0	41,000	66.9	242.7	38,800				75
80	61.2	237.4	38,100	64.7	240.4	35,600	67.2	242.0	33,800	80
85	58.8	234.5	35,100	62.4	237.9	32,900	64.9	239.7	31,100	85
90	56.4	231.3	32,600	60.0	235.2	30,400	62.7	237.3	28,800	90
95	53.9	227.9	30,300	57.7	232.2	28,300	60.3	234.6	26,800	95
100	51.4	224.0	28,300	55.2	228.8	26,400	57.9	231.6	25,000	100
105	48.7	219.9	26,500	52.7	225.2	24,700	55.5	228.3	23,400	105
110	45.9	215.2	24,900	50.0	221.2	23,200	53.0	224.7	21,900	110
115	43.0	210.1	23,400	47.3	216.8	21,800	50.4	220.7	20,600	115
120	39.9	204.5	22,100	44.5	212.0	20,500	47.6	216.4	19,300	120
125	36.6	198.1	20,800	41.5	206.6	19,300	44.8	211.6	18,200	125
130	33.0	190.9	19,700	38.3	200.6	18,300	41.8	206.3	17,200	130
135	29.0	182.6	18,600	34.8	193.9	17,300	38.7	200.4	16,300	135
140	24.5	172.7	17,700	31.1	186.1	16,400	35.3	193.7	15,400	140
145	18.9	160.1	16,700	26.8	177.1	15,500	31.5	186.2	14,600	145
150	11.0	141.4	15,900	21.9	166.1	14,700	27.4	177.3	13,800	150
155				15.5	151.3	13,900	22.5	166.5	13,100	155
160				2.0	118.7	13,200	16.4	152.4	12,400	160
165							5.6	126.6	11,700	165
170										170
175										175
180										180
185										185
190										190

MLC165-1 S-1

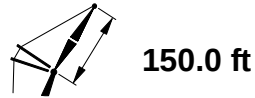
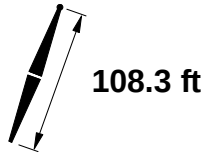
ASME B30.5



	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										95
100	62.3	234.6	22,600							100
105	59.9	231.9	21,100							105
110	57.5	228.8	19,800							110
115	55.1	225.5	18,500							115
120	52.5	221.8	17,400	57.0	225.1	15,500				120
125	49.9	217.8	16,400	54.6	221.7	14,600				125
130	47.2	213.4	15,500	52.0	218.0	13,700				130
135	44.3	208.5	14,600	49.4	213.9	12,900				135
140	41.3	203.1	13,800	46.6	209.4	12,200	51.3	213.1	10,700	140
145	38.1	197.1	13,000	43.7	204.4	11,500	48.6	208.9	10,000	145
150	34.7	190.3	12,300	40.7	198.9	10,900	45.8	204.3	9,400	150
155	30.9	182.6	11,700	37.4	192.7	10,300	42.9	199.2	8,900	155
160	26.6	173.5	11,100	33.9	185.8	9,700	39.8	193.5	8,400	160
165	21.6	162.3	10,500	30.0	177.7	9,200	36.5	187.1	7,900	165
170	15.1	147.2	9,900	25.7	168.3	8,700	32.9	179.9	7,400	170
175				20.4	156.5	8,200	28.9	171.6	7,000	175
180				13.4	140.1	7,700	24.4	161.6	6,600	180
185							18.8	148.9	6,200	185
190							10.7	130.0	5,800	190



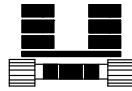
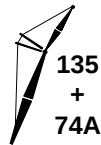
101,400 lb
+
0 lb



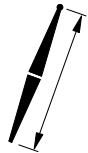
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
55	73.6	258.6	41,200 b							55
60	71.6	257.0	40,500							60
65	69.5	255.2	39,900							65
70	67.5	253.3	39,200	70.6	255.3	40,300				70
75	65.4	251.1	37,900	68.5	253.5	38,600				75
80	63.3	248.7	36,400	66.5	251.4	35,500				80
85	61.1	246.1	35,000	64.4	249.1	32,700	66.7	250.7	31,000	85
90	58.9	243.2	32,500	62.2	246.6	30,300	64.6	248.4	28,700	90
95	56.7	240.0	30,200	60.0	243.8	28,200	62.5	246.0	26,700	95
100	54.4	236.6	28,200	57.8	240.8	26,300	60.3	243.2	24,900	100
105	52.0	232.8	26,400	55.5	237.5	24,600	58.1	240.2	23,300	105
110	49.5	228.8	24,800	53.2	234.0	23,100	55.8	237.0	21,800	110
115	46.9	224.3	23,300	50.7	230.0	21,700	53.5	233.4	20,500	115
120	44.3	219.4	22,000	48.2	225.8	20,400	51.0	229.6	19,300	120
125	41.5	214.0	20,800	45.6	221.1	19,300	48.5	225.3	18,200	125
130	38.5	208.0	19,600	42.9	216.0	18,200	45.9	220.7	17,100	130
135	35.3	201.4	18,600	40.0	210.3	17,200	43.2	215.6	16,200	135
140	31.8	193.8	17,600	36.9	204.0	16,300	40.3	210.0	15,300	140
145	28.0	185.1	16,700	33.6	196.9	15,500	37.3	203.8	14,500	145
150	23.6	174.8	15,900	30.0	188.9	14,700	34.0	196.9	13,800	150
155	18.3	161.8	15,100	25.9	179.4	13,900	30.4	188.9	13,100	155
160	10.6	142.3	14,300	21.1	168.0	13,200	26.4	179.7	12,400	160
165				15.0	152.6	12,600	21.7	168.5	11,800	165
170				1.9	118.9	11,900	15.8	153.8	11,200	170
175							5.4	127.1	10,600	175
180										180
185										185
190										190
195										195
200										200

MLC165-1 S-1

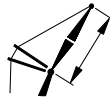
ASME B30.5



101,400 lb
+
0 lb

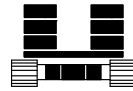
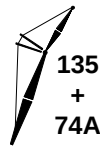


108.3 ft



150.0 ft

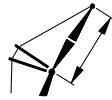
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105	62.1	243.3	21,000							105
110	59.9	240.5	19,700							110
115	57.7	237.5	18,400							115
120	55.4	234.2	17,300							120
125	53.1	230.6	16,300	57.2	233.8	14,500				125
130	50.6	226.7	15,400	54.9	230.4	13,600				130
135	48.1	222.4	14,500	52.6	226.8	12,800				135
140	45.5	217.7	13,700	50.1	222.8	12,100				140
145	42.8	212.5	13,000	47.6	218.4	11,400	51.9	221.9	9,900	145
150	39.9	206.8	12,300	44.9	213.6	10,800	49.4	217.8	9,400	150
155	36.8	200.5	11,600	42.2	208.3	10,200	46.9	213.3	8,800	155
160	33.5	193.4	11,000	39.2	202.5	9,600	44.2	208.4	8,300	160
165	29.8	185.3	10,400	36.1	196.1	9,100	41.4	203.0	7,800	165
170	25.7	175.8	9,900	32.7	188.8	8,600	38.4	197.1	7,400	170
175	20.9	164.2	9,400	29.0	180.4	8,200	35.2	190.4	7,000	175
180	14.6	148.5	8,900	24.8	170.5	7,700	31.8	182.8	6,600	180
185				19.7	158.3	7,300	27.9	174.1	6,200	185
190				12.9	141.2	6,900	23.5	163.7	5,800	190
195							18.1	150.6	5,400	195
200							10.4	130.9	5,000	200



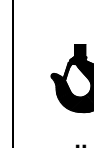
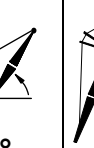
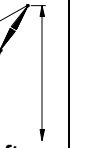
101,400 lb
+
0 lb



108.3 ft

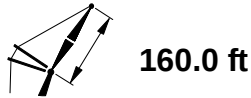
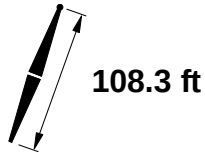
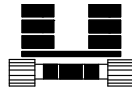
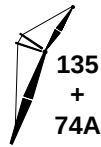


160.0 ft

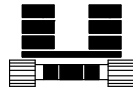
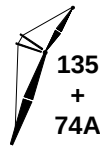
	87°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
55	74.6	269.0	38,400	b						55
60	72.8	267.5	37,700							60
65	70.9	265.9	37,100							65
70	69.0	264.0	35,900							70
75	67.0	262.0	34,500							75
80	65.1	259.8	33,100		69.9	264.2	36,500			80
85	63.1	257.4	31,800		68.0	262.2	35,200			85
90	61.1	254.7	30,500		66.1	260.1	32,500			90
95	59.0	251.8	29,200		64.1	257.8	30,000	66.3	259.4	28,400
100	56.9	248.7	27,900		62.1	255.3	27,900	64.3	257.1	26,400
105	54.7	245.3	26,200		60.0	252.5	26,000	62.3	254.6	24,600
110	52.5	241.6	24,600		60.0	249.5	24,300	60.3	251.9	23,000
115	50.2	237.6	23,100		58.0	246.2	22,800	58.2	248.9	21,500
120	47.8	233.3	21,700		55.8	242.7	21,400	56.1	245.7	20,200
125	45.4	228.5	20,500		53.6	238.9	20,200	53.9	242.2	19,000
130	42.8	223.4	19,400		51.4	234.7	19,000	51.6	238.4	17,900
135	40.1	217.7	18,400		49.0	230.2	17,900	49.3	234.2	16,800
140	37.2	211.5	17,400		46.6	225.2	17,000	46.9	229.8	15,900
145	34.1	204.5	16,500		44.1	219.8	16,100	44.4	224.9	15,000
150	30.8	196.6	15,700		41.5	213.9	15,200	41.8	219.5	14,200
155	27.1	187.6	14,900		38.7	207.3	14,400	39.0	213.6	13,500
160	22.9	176.9	14,100		35.7	199.9	13,700	36.1	207.1	12,800
165	17.7	163.3	13,400		32.5	191.5	13,000	32.9	199.9	12,100
170	10.3	143.3	12,800		29.0	181.7	12,400	29.5	191.6	11,500
175					25.1	169.8	11,700	25.6	182.0	10,900
180					20.5	153.9	11,100	21.1	170.4	10,400
185					14.5	119.1	10,500	15.3	155.2	9,900
190								5.3	127.6	9,300
195										
200										
205										
210										

MLC165-1 S-1

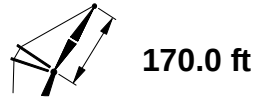
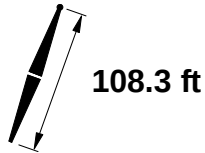
ASME B30.5

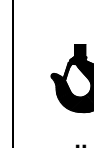
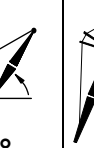
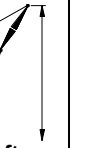


	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110	62.0	252.0	19,300							110
115	59.9	249.2	18,100							115
120	57.9	246.2	17,000							120
125	55.7	242.9	16,000							125
130	53.5	239.3	15,000	57.4	242.5	13,300				130
135	51.3	235.5	14,200	55.3	239.1	12,500				135
140	48.9	231.3	13,400	53.0	235.5	11,800				140
145	46.5	226.7	12,700	50.8	231.6	11,100				145
150	44.0	221.8	12,000	48.4	227.3	10,500	52.4	230.7	9,000	150
155	41.3	216.4	11,300	46.0	222.7	9,900	50.1	226.7	8,500	155
160	38.5	210.4	10,700	43.4	217.7	9,300	47.8	222.3	7,900	160
165	35.6	203.8	10,200	40.8	212.1	8,800	45.3	217.6	7,500	165
170	32.4	196.3	9,600	37.9	206.0	8,300	42.7	212.4	7,000	170
175	28.8	187.9	9,100	34.9	199.3	7,900	40.0	206.7	6,600	175
180	24.9	178.0	8,600	31.7	191.6	7,400	37.1	200.5	6,100	180
185	20.2	166.0	8,200	28.1	182.9	7,000	34.1	193.5	5,700	185
190	14.2	149.8	7,700	24.0	172.7	6,600	30.7	185.6	5,300	190
195				19.1	160.0	6,200	27.0	176.5	4,900	195
200				12.5	142.3	5,800	22.8	165.8	4,600	200
205							17.6	152.1	4,200	205
210							10.0	131.8	3,900	210



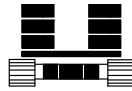
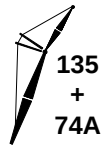
101,400 lb
+
0 lb



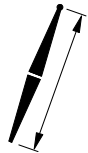
	87°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
60	73.8	278.0	35,100							60
65	72.0	276.4	34,300							65
70	70.3	274.7	33,100							70
75	68.5	272.8	31,800							75
80	66.6	270.8	30,500	69.4	273.0	32,400				80
85	64.8	268.5	29,200	67.6	271.0	31,100				85
90	62.9	266.0	27,900	65.7	268.8	29,800	67.8	270.3	28,200	90
95	61.0	263.4	26,700	63.9	266.5	27,700	65.9	268.2	26,100	95
100	59.1	260.5	25,500	62.0	263.9	25,800	64.1	265.8	24,300	100
105	57.1	257.4	24,300	60.0	261.2	24,100	62.2	263.3	22,700	105
110	55.0	254.0	23,200	58.1	258.2	22,600	60.3	260.5	21,300	110
115	53.0	250.4	22,100	56.1	254.9	21,200	58.3	257.6	19,900	115
120	50.8	246.5	21,000	54.0	251.4	19,900	56.3	254.4	18,700	120
125	48.6	242.2	20,000	51.9	247.7	18,800	54.3	250.9	17,600	125
130	46.3	237.6	19,100	49.7	243.6	17,700	52.1	247.2	16,600	130
135	43.9	232.6	18,100	47.5	239.2	16,700	50.0	243.1	15,700	135
140	41.4	227.2	17,200	45.1	234.4	15,800	47.7	238.7	14,800	140
145	38.8	221.3	16,300	42.7	229.2	15,000	45.4	234.0	14,000	145
150	36.1	214.8	15,500	40.2	223.5	14,200	43.0	228.9	13,300	150
155	33.1	207.5	14,700	37.5	217.3	13,500	40.5	223.3	12,600	155
160	29.9	199.3	13,700	34.6	210.4	12,800	37.8	217.1	11,900	160
165	26.3	190.0	12,800	31.5	202.8	12,200	35.0	210.3	11,300	165
170	22.2	178.9	11,900	28.1	194.0	11,600	31.9	202.8	10,800	170
175	17.2	164.9	11,100	24.3	183.9	11,000	28.6	194.2	10,200	175
180	10.0	144.1	10,400	19.8	171.6	10,400	24.8	184.2	9,700	180
185				14.1	155.2	9,900	20.4	172.2	9,200	185
190				1.8	119.2	9,400	14.8	156.5	8,700	190
195							5.1	128.0	8,200	195
200										200
205										205
210										210
215										215

MLC165-1 S-1

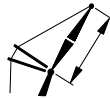
ASME B30.5



101,400 lb
+
0 lb

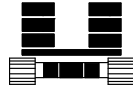
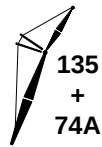


108.3 ft

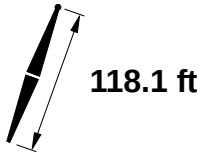


170.0 ft

	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	61.9	260.6	17,900							115
120	59.9	257.8	16,700							120
125	58.0	254.8	15,700							125
130	56.0	251.6	14,800							130
135	53.9	248.1	13,900	57.6	251.1	12,200				135
140	51.8	244.3	13,200	55.5	247.8	11,500				140
145	49.6	240.2	12,400	53.5	244.3	10,800				145
150	47.4	235.8	11,700	51.3	240.4	10,200				150
155	45.0	231.0	11,100	49.2	236.3	9,600	52.9	239.5	8,200	155
160	42.6	225.8	10,500	46.9	231.8	9,100	50.8	235.5	7,700	160
165	40.0	220.1	9,900	44.5	226.9	8,600	48.5	231.3	7,200	165
170	37.4	213.8	9,400	42.1	221.6	8,100	46.3	226.7	6,700	170
175	34.5	206.9	8,900	39.5	215.8	7,600	43.9	221.7	6,200	175
180	31.4	199.2	8,400	36.8	209.4	7,200	41.4	216.3	5,800	180
185	28.0	190.4	8,000	33.8	202.3	6,800	38.8	210.3	5,400	185
190	24.1	180.2	7,600	30.7	194.4	6,400	36.0	203.8	5,000	190
195	19.6	167.7	7,100	27.2	185.4	6,000	33.0	196.5	4,600	195
200	13.7	151.0	6,700	23.3	174.8	5,700	29.8	188.3	4,300	200
205				18.5	161.7	5,300	26.2	178.9	3,900	205
210				12.1	143.4	4,900	22.1	167.7	3,600	210
215							17.0	153.7	3,300	215



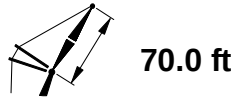
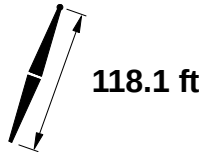
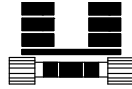
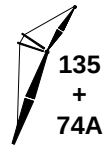
101,400 lb
+
0 lb

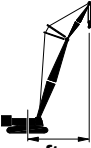
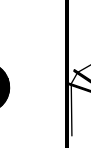
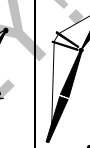


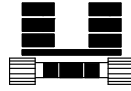
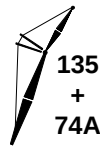
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
32	74.3	191.9	94,100 d							32
34	72.6	191.3	94,100 d							34
36	70.9	190.7	94,000 d							36
38	69.2	189.9	93,900 c							38
40	67.4	189.2	93,800 c							40
45	62.9	186.8	82,500 c	70.2	189.5	77,500 d				45
50	58.2	184.0	71,800 b	65.8	187.5	67,400 c				50
55	53.2	180.6	63,400 b	61.2	185.0	59,600 b	66.8	186.9	56,700 c	55
60	47.9	176.5	56,700	56.4	182.0	53,200 b	62.2	184.6	50,700 c	60
65	42.1	171.5	51,200	51.4	178.3	48,000 b	57.5	181.7	45,700 b	65
70	35.6	165.3	46,500	45.9	173.9	43,700	52.5	178.2	41,500 b	70
75	27.8	157.2	42,500	39.9	168.5	40,000	47.1	173.9	38,000	75
80	17.1	145.1	39,100	33.0	161.8	36,800	41.3	168.8	35,000	80
85				24.5	152.6	33,900	34.6	162.4	32,300	85
90				11.0	137.0	31,400	26.6	153.9	29,900	90
95							15.0	140.7	27,800	95
100										100
105										105
110										110
115										115
120										120
125										125

MLC165-1 S-1

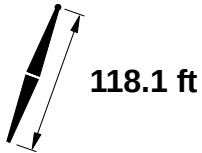
ASME B30.5



	75°			70°			65°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
32										32
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70	62.2	182.2	38,000 c							70
75	57.5	179.3	34,700 b							75
80	52.5	175.8	31,900 b							80
85	47.2	171.5	29,500	57.3	175.8	26,700 b				85
90	41.3	166.4	27,400	52.3	172.3	24,800 b				90
95	34.6	160.0	25,400	46.9	168.0	23,000				95
100	26.6	151.5	23,700	41.0	162.8	21,500	51.7	167.7	19,300 b	100
105	15.0	138.4	22,100	34.3	156.4	20,100	46.3	163.4	18,000	105
110				26.2	147.8	18,800	40.3	158.1	16,800	110
115				14.3	134.2	17,500	33.5	151.4	15,800	115
120							25.1	142.5	14,800	120
125							12.3	127.7	13,800	125



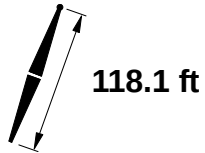
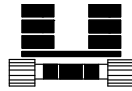
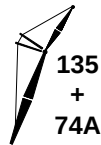
101,400 lb
+
0 lb

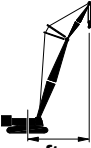
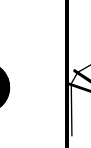
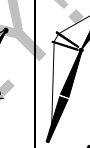


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
34	74.8	201.8	86,600 d							34
36	73.4	201.2	86,500 d							36
38	71.9	200.6	86,400 c							38
40	70.3	199.9	86,300 c							40
45	66.5	197.9	82,200 c							45
50	62.5	195.5	71,600 b	69.0	198.3	67,100 c				50
55	58.4	192.7	63,200 b	65.1	196.2	59,300 b				55
60	54.1	189.3	56,500	61.1	193.7	53,000 b	65.9	195.7	50,300 c	60
65	49.5	185.4	51,000	56.9	190.7	47,800 b	62.0	193.2	45,400 b	65
70	44.7	180.8	46,300	52.5	187.1	43,400	57.8	190.3	41,200 b	70
75	39.3	175.2	42,400	47.8	182.9	39,700	53.5	186.9	37,700	75
80	33.2	168.4	39,000	42.8	178.0	36,500	48.9	182.9	34,700	80
85	26.0	159.6	36,000	37.2	172.0	33,800	43.9	178.1	32,000	85
90	16.0	146.5	33,400	30.8	164.6	31,300	38.5	172.4	29,700	90
95				22.9	154.7	29,100	32.3	165.4	27,700	95
100				10.3	137.9	27,100	24.8	156.2	25,800	100
105							14.0	142.0	24,100	105
110										110
115										115
120										120
125										125
130										130
135										135

MLC165-1 S-1

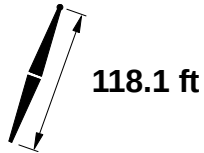
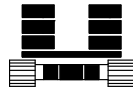
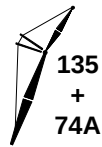
ASME B30.5

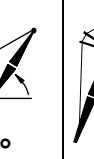


	75°			70°			65°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75	62.0	190.8	34,400 b							75
80	57.8	187.9	31,600 b							80
85	53.5	184.5	29,200							85
90	48.9	180.5	27,000	57.6	184.5	24,400 b				90
95	43.9	175.7	25,200	53.3	181.0	22,700				95
100	38.5	170.0	23,500	48.7	177.0	21,100				100
105	32.3	163.0	21,900	43.7	172.2	19,700	52.8	176.5	17,600	105
110	24.8	153.8	20,500	38.2	166.4	18,500	48.1	172.4	16,400	110
115	14.1	139.7	19,200	32.0	159.3	17,300	43.1	167.5	15,400	115
120				24.4	150.0	16,300	37.6	161.6	14,500	120
125				13.4	135.4	15,200	31.3	154.3	13,600	125
130							23.5	144.6	12,700	130
135							11.5	128.8	11,900	135

MLC165-1 S-1

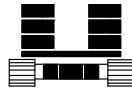
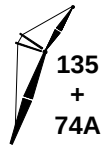
ASME B30.5



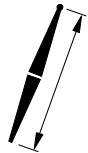
	87°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
38		73.9	211.0	78,300 d						38
40		72.6	210.4	78,200 c						40
45		69.2	208.7	77,900 c						45
50		65.8	206.6	71,400 b						50
55		62.2	204.2	63,100 b	68.0	207.1	59,100 b			55
60		58.6	201.3	56,300 b	64.5	204.9	52,800 b			60
65		54.8	198.1	50,800	60.9	202.3	47,600 b	65.3	204.4	45,200 b
70		50.8	194.3	46,200	57.2	199.3	43,300	61.7	201.9	41,000 b
75		46.5	189.9	42,300	53.4	195.9	39,600	58.1	199.0	37,500 b
80		42.0	184.7	38,900	49.3	191.9	36,400	54.2	195.6	34,500
85		37.0	178.6	36,000	44.9	187.2	33,600	50.2	191.8	31,900
90		31.3	171.3	33,400	40.2	181.8	31,200	45.9	187.3	29,600
95		24.5	161.8	31,100	35.0	175.3	29,100	41.3	182.0	27,500
100		15.0	147.9	29,000	29.0	167.3	27,100	36.2	175.8	25,700
105					21.5	156.7	25,400	30.4	168.2	24,100
110					9.7	138.8	23,800	23.4	158.3	22,500
115								13.2	143.2	21,100
120										
125										
130										
135										
140										
145										

MLC165-1 S-1

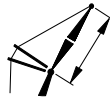
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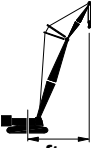
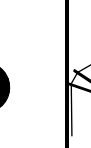
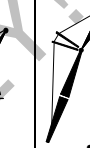
101,400 lb
+
0 lb



118.1 ft

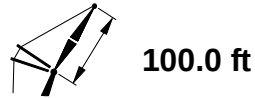
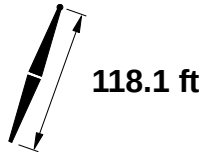
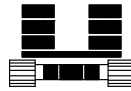
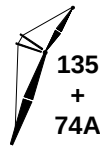


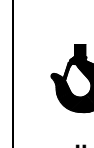
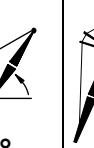
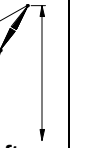
90.0 ft

	75°			70°			65°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80	61.8	199.5	31,400 b							80
85	58.1	196.6	29,000 b							85
90	54.2	193.2	26,800							90
95	50.2	189.4	25,000	57.9	193.2	22,400				95
100	45.9	184.9	23,300	54.1	189.8	20,900				100
105	41.3	179.6	21,800	50.0	185.9	19,500				105
110	36.2	173.4	20,400	45.7	181.4	18,300				110
115	30.4	165.8	19,200	41.1	176.1	17,200	49.6	181.3	15,200	115
120	23.4	155.9	18,000	36.0	169.8	16,100	45.2	176.7	14,300	120
125	13.3	140.8	16,900	30.1	162.1	15,200	40.6	171.3	13,400	125
130				23.0	152.1	14,300	35.4	164.9	12,600	130
135				12.6	136.6	13,400	29.4	157.0	11,900	135
140							22.1	146.7	11,200	140
145							10.9	129.8	10,500	145

MLC165-1 S-1

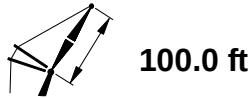
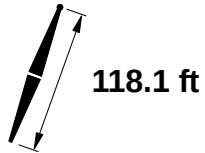
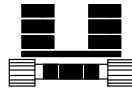
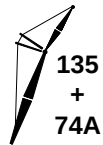
ASME B30.5

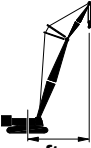
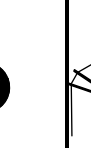
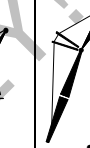


	87°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
40	74.4	220.8	71,900 c							40
45	71.4	219.3	71,500 c							45
50	68.3	217.5	71,100 b							50
55	65.2	215.3	62,800 b	70.3	217.8	58,700 b				55
60	62.0	212.8	56,100 b	67.2	215.9	52,500 b				60
65	58.7	210.0	50,600	64.1	213.6	47,300 b	67.9	215.3	44,800 b	65
70	55.3	206.8	46,000	60.9	211.0	43,000	64.8	213.1	40,700 b	70
75	51.8	203.1	42,100	57.5	208.0	39,300	61.6	210.6	37,200	75
80	48.0	198.8	38,700	54.0	204.6	36,100	58.3	207.7	34,200	80
85	44.0	194.0	35,800	50.4	200.7	33,400	54.8	204.4	31,600	85
90	39.7	188.4	33,200	46.6	196.3	31,000	51.2	200.6	29,300	90
95	35.0	181.9	30,900	42.5	191.2	28,800	47.5	196.3	27,200	95
100	29.6	174.0	28,900	38.1	185.3	26,900	43.4	191.4	25,400	100
105	23.2	163.9	27,100	33.2	178.4	25,200	39.1	185.7	23,800	105
110	14.3	149.2	25,300	27.5	169.8	23,600	34.3	179.0	22,300	110
115				20.4	158.5	22,200	28.8	170.8	21,000	115
120				9.2	139.6	20,800	22.2	160.3	19,700	120
125							12.5	144.3	18,500	125
130										130
135										135
140										140
145										145
150										150
155										155

MLC165-1 S-1

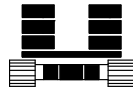
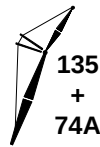
ASME B30.5



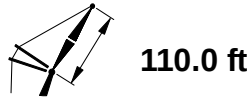
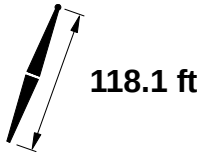
	75°			70°			65°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85	61.6	208.2	28,600							85
90	58.3	205.3	26,500							90
95	54.8	202.0	24,600							95
100	51.2	198.2	22,900							100
105	47.5	193.9	21,500	54.7	198.5	19,200				105
110	43.5	189.0	20,100	51.1	194.7	17,900				110
115	39.1	183.3	18,900	47.3	190.4	16,800				115
120	34.3	176.6	17,800	43.3	185.4	15,800	50.7	190.1	13,900	120
125	28.8	168.4	16,700	38.9	179.7	14,900	46.9	185.8	13,000	125
130	22.2	158.0	15,800	34.1	172.9	14,000	42.8	180.7	12,200	130
135	12.6	142.0	14,800	28.6	164.7	13,200	38.4	174.9	11,500	135
140				21.8	154.1	12,400	33.5	168.0	10,800	140
145				12.0	137.6	11,700	27.9	159.6	10,200	145
150							21.0	148.6	9,600	150
155							10.3	130.7	9,000	155

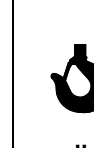
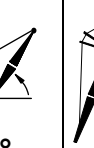
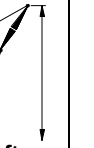
MLC165-1 S-1

ASME B30.5



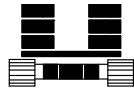
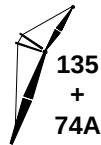
101,400 lb
+
0 lb



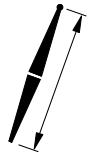
	87°			83°			80°			
										
	ft	ft	ft	lb	ft	ft	lb	ft	ft	ft
45	73.1	229.8	66,000 c							45
50	70.4	228.2	65,600 b							50
55	67.6	226.2	62,700 b							55
60	64.8	224.0	56,000	69.4	226.6	52,400 b				60
65	61.8	221.5	50,500	66.6	224.6	47,200 b				65
70	58.8	218.7	45,900	63.7	222.3	42,900	67.2	224.0	40,600 b	70
75	55.8	215.5	42,000	60.8	219.7	39,200	64.4	221.8	37,100	75
80	52.5	211.8	38,700	57.7	216.7	36,100	61.4	219.2	34,100	80
85	49.2	207.8	35,800	54.6	213.3	33,300	58.4	216.3	31,500	85
90	45.6	203.2	33,200	51.3	209.6	30,900	55.3	213.1	29,200	90
95	41.9	197.9	30,900	47.9	205.3	28,800	52.1	209.4	27,200	95
100	37.8	192.0	28,900	44.3	200.5	26,900	48.7	205.3	25,400	100
105	33.3	185.0	27,100	40.4	195.0	25,200	45.1	200.6	23,800	105
110	28.2	176.6	25,400	36.2	188.7	23,700	41.3	195.3	22,300	110
115	22.1	165.9	23,900	31.6	181.3	22,300	37.2	189.1	21,000	115
120	13.6	150.4	22,500	26.2	172.2	21,000	32.7	182.0	19,800	120
125				19.5	160.3	19,800	27.5	173.3	18,600	125
130				8.8	140.4	18,600	21.1	162.2	17,600	130
135							11.9	145.4	16,600	135
140										140
145										145
150										150
155										155
160										160
165										165

MLC165-1 S-1

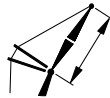
ASME B30.5



101,400 lb
+
0 lb



118.1 ft

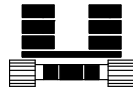
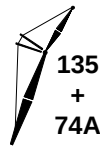


110.0 ft

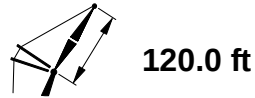
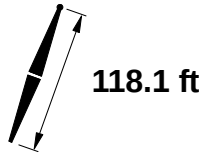
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90	61.4	216.8	26,400							90
95	58.4	213.9	24,600							95
100	55.3	210.7	22,900							100
105	52.1	207.0	21,400							105
110	48.7	202.8	20,100	55.2	207.2	17,900				110
115	45.1	198.2	18,900	51.9	203.5	16,800				115
120	41.3	192.8	17,800	48.5	199.4	15,800				120
125	37.2	186.7	16,700	45.0	194.7	14,800	51.6	199.0	13,000	125
130	32.7	179.6	15,800	41.2	189.3	14,000	48.2	194.7	12,200	130
135	27.5	170.9	14,900	37.0	183.1	13,200	44.6	190.0	11,500	135
140	21.1	159.9	14,100	32.4	175.9	12,500	40.7	184.5	10,800	140
145	12.0	143.1	13,300	27.2	167.2	11,800	36.5	178.3	10,200	145
150				20.8	156.0	11,100	31.9	170.9	9,600	150
155				11.4	138.6	10,500	26.6	162.0	9,100	155
160							20.0	150.4	8,600	160
165							9.8	131.6	8,000	165

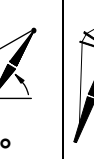
MLC165-1 S-1

ASME B30.5



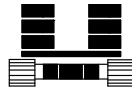
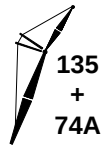
101,400 lb
+
0 lb



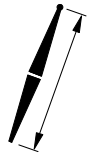
	87°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
45		74.6	240.2	55,100 c						45
50		72.1	238.7	55,100 b						50
55		69.6	237.0	55,100 b						55
60		67.0	235.0	54,900						60
65		64.4	232.7	50,300	68.6	235.4	46,900 b			65
70		61.7	230.2	45,700	66.1	233.3	42,600			70
75		58.9	227.3	41,800	63.4	231.0	38,900	66.6	232.8	36,800
80		56.1	224.1	38,400	60.7	228.3	35,800	64.0	230.5	33,800
85		53.2	220.6	35,500	57.9	225.3	33,000	61.3	227.9	31,200
90		50.1	216.6	33,000	55.1	222.0	30,600	58.6	225.0	28,900
95		47.0	212.2	30,700	52.1	218.3	28,500	55.7	221.8	26,900
100		43.6	207.3	28,700	49.0	214.2	26,600	52.8	218.2	25,100
105		40.0	201.7	26,900	45.8	209.6	24,900	49.7	214.1	23,500
110		36.1	195.3	25,200	42.3	204.5	23,400	46.5	209.7	22,000
115		31.9	187.9	23,800	38.7	198.6	22,000	43.1	204.6	20,700
120		27.0	179.0	22,400	34.7	191.9	20,700	39.5	198.9	19,500
125		21.2	167.8	21,100	30.2	184.0	19,600	35.6	192.4	18,400
130		13.0	151.6	20,000	25.1	174.5	18,500	31.2	184.8	17,400
135					18.6	162.0	17,500	26.3	175.7	16,400
140					8.4	141.2	16,500	20.2	164.1	15,500
145								11.4	146.4	14,700
150										145
155										155
160										160
165										165
170										170
175										175

MLC165-1 S-1

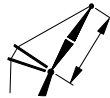
ASME B30.5



101,400 lb
+
0 lb

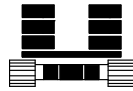
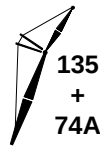


118.1 ft



120.0 ft

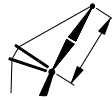
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95	61.3	225.5	24,200							95
100	58.6	222.6	22,600							100
105	55.7	219.4	21,100							105
110	52.8	215.8	19,700							110
115	49.7	211.7	18,500	55.6	215.9	16,400				115
120	46.5	207.3	17,400	52.6	212.3	15,400				120
125	43.1	202.2	16,400	49.6	208.3	14,500				125
130	39.5	196.5	15,500	46.4	203.7	13,600	52.3	207.7	11,800	130
135	35.6	190.0	14,600	43.0	198.7	12,900	49.2	203.7	11,100	135
140	31.2	182.4	13,800	39.3	193.0	12,100	46.0	199.1	10,500	140
145	26.3	173.3	13,100	35.4	186.4	11,500	42.6	194.0	9,900	145
150	20.2	161.7	12,400	31.0	178.8	10,800	38.9	188.2	9,300	150
155	11.5	144.1	11,700	26.0	169.6	10,200	34.9	181.5	8,800	155
160				19.9	157.8	9,700	30.5	173.7	8,300	160
165				10.9	139.6	9,100	25.4	164.3	7,800	165
170							19.1	152.1	7,300	170
175							9.4	132.4	6,800	175



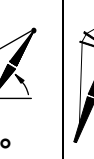
101,400 lb
+
0 lb



118.1 ft

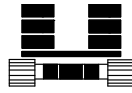
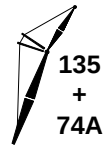


130.0 ft

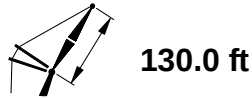
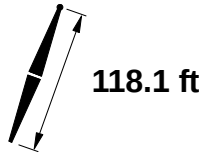
	87°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
50	73.5	249.2	46,800 b							50
55	71.2	247.6	46,000 b							55
60	68.9	245.8	45,200							60
65	66.5	243.7	44,500	70.4	246.1	46,100 b				65
70	64.0	241.4	43,800	68.0	244.2	42,400				70
75	61.6	238.8	41,600	65.6	242.0	38,700				75
80	59.0	236.0	38,200	63.2	239.6	35,600	66.1	241.5	33,500	80
85	56.4	232.8	35,300	60.7	237.0	32,800	63.7	239.2	31,000	85
90	53.7	229.3	32,800	58.1	234.0	30,400	61.2	236.6	28,700	90
95	50.9	225.5	30,500	55.5	230.7	28,300	58.7	233.7	26,700	95
100	48.0	221.2	28,500	52.7	227.1	26,400	56.0	230.5	24,900	100
105	45.0	216.5	26,700	49.9	223.1	24,700	53.3	226.9	23,300	105
110	41.8	211.2	25,100	47.0	218.7	23,200	50.5	223.0	21,800	110
115	38.4	205.2	23,600	43.9	213.8	21,800	47.6	218.7	20,500	115
120	34.7	198.5	22,300	40.6	208.2	20,600	44.6	213.9	19,300	120
125	30.6	190.7	21,000	37.1	202.0	19,400	41.3	208.5	18,200	125
130	25.9	181.4	19,900	33.3	194.9	18,300	37.9	202.4	17,200	130
135	20.3	169.7	18,800	29.0	186.7	17,400	34.1	195.6	16,300	135
140	12.5	152.7	17,800	24.1	176.6	16,400	30.0	187.6	15,400	140
145				17.9	163.6	15,600	25.2	178.0	14,600	145
150				8.1	141.9	14,700	19.4	165.8	13,800	150
155							11.0	147.4	13,100	155
160										160
165										165
170										170
175										175
180										180
185										185

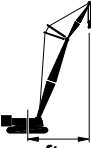
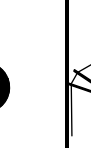
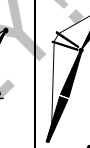
MLC165-1 S-1

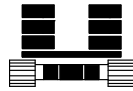
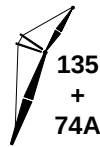
ASME B30.5



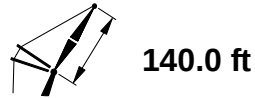
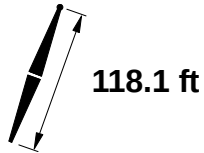
101,400 lb
+
0 lb

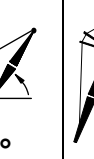


	75°			70°			65°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100	61.2	234.1	22,300							100
105	58.7	231.2	20,800							105
110	56.1	228.0	19,500							110
115	53.4	224.5	18,300							115
120	50.6	220.6	17,200	55.9	224.6	15,200				120
125	47.6	216.3	16,200	53.2	221.0	14,200				125
130	44.6	211.4	15,300	50.4	217.1	13,400				130
135	41.3	206.1	14,400	47.5	212.8	12,600	52.9	216.5	10,900	135
140	37.9	200.0	13,600	44.4	207.9	11,900	50.1	212.5	10,200	140
145	34.1	193.2	12,900	41.2	202.5	11,200	47.2	208.1	9,600	145
150	30.0	185.2	12,200	37.7	196.5	10,600	44.1	203.2	9,100	150
155	25.2	175.6	11,600	34.0	189.5	10,000	40.8	197.8	8,500	155
160	19.4	163.4	10,900	29.8	181.5	9,500	37.3	191.6	8,000	160
165	11.0	145.1	10,300	25.0	171.8	9,000	33.5	184.6	7,600	165
170				19.1	159.5	8,500	29.3	176.4	7,100	170
175				10.5	140.6	8,000	24.4	166.5	6,700	175
180							18.4	153.7	6,300	180
185							9.0	133.2	5,900	185



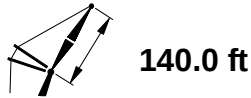
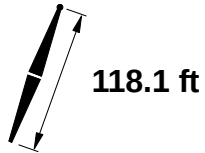
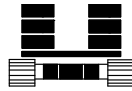
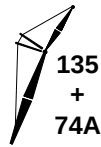
101,400 lb
+
0 lb



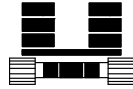
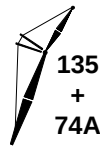
	87°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
50	74.7	259.6	43,900 b							50
55	72.6	258.1	43,100 b							55
60	70.4	256.4	42,500							60
65	68.2	254.6	41,700							65
70	66.0	252.4	41,100	69.6	254.9	42,000				70
75	63.8	250.1	40,500	67.4	252.9	38,400				75
80	61.5	247.5	38,000	65.2	250.8	35,300	67.9	252.4	33,200	80
85	59.1	244.7	35,100	62.9	248.3	32,500	65.7	250.2	30,600	85
90	56.7	241.5	32,500	60.6	245.6	30,100	63.4	247.8	28,400	90
95	54.2	238.1	30,300	58.2	242.7	28,000	61.1	245.2	26,300	95
100	51.6	234.3	28,300	55.8	239.4	26,100	58.8	242.3	24,600	100
105	49.0	230.1	26,500	53.3	235.9	24,500	56.3	239.1	23,000	105
110	46.2	225.6	24,800	50.7	232.0	22,900	53.8	235.7	21,500	110
115	43.3	220.5	23,400	48.0	227.7	21,600	51.3	231.8	20,200	115
120	40.2	214.9	22,000	45.2	222.9	20,300	48.6	227.6	19,000	120
125	36.9	208.6	20,800	42.2	217.7	19,100	45.8	223.0	17,900	125
130	33.4	201.5	19,700	39.1	211.9	18,100	42.9	217.9	16,900	130
135	29.5	193.4	18,600	35.7	205.3	17,100	39.8	212.2	16,000	135
140	25.0	183.6	17,600	32.0	197.9	16,200	36.5	205.8	15,100	140
145	19.6	171.4	16,700	27.9	189.2	15,300	32.9	198.6	14,300	145
150	12.1	153.8	15,800	23.2	178.7	14,500	28.9	190.2	13,600	150
155				17.2	165.1	13,800	24.3	180.2	12,900	155
160				7.8	142.6	13,100	18.7	167.5	12,200	160
165							10.6	148.3	11,500	165
170										170
175										175
180										180
185										185
190										190
195										195

MLC165-1 S-1

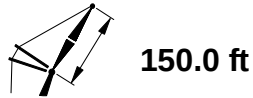
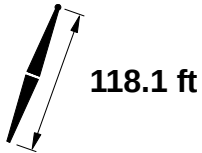
ASME B30.5

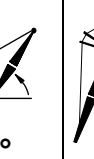


	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105	61.1	242.8	20,500							105
110	58.8	239.9	19,200							110
115	56.3	236.7	18,000							115
120	53.8	233.2	16,900							120
125	51.3	229.4	15,900	56.2	233.3	13,900				125
130	48.6	225.2	14,900	53.7	229.8	13,000				130
135	45.8	220.6	14,100	51.1	225.9	12,300				135
140	42.9	215.5	13,300	48.5	221.7	11,600				140
145	39.8	209.8	12,600	45.7	217.1	10,900	50.9	221.4	9,200	145
150	36.5	203.4	11,900	42.7	211.9	10,300	48.2	217.1	8,700	150
155	32.9	196.2	11,300	39.6	206.2	9,700	45.4	212.4	8,200	155
160	28.9	187.8	10,700	36.3	199.8	9,200	42.4	207.2	7,700	160
165	24.3	177.8	10,100	32.7	192.5	8,600	39.3	201.4	7,200	165
170	18.7	165.1	9,600	28.7	184.1	8,200	35.9	194.9	6,700	170
175	10.6	146.0	9,000	24.1	174.0	7,700	32.3	187.5	6,300	175
180				18.4	161.1	7,300	28.2	178.9	5,900	180
185				10.1	141.5	6,800	23.5	168.6	5,500	185
190							17.7	155.3	5,000	190
195							8.7	134.0	4,600	195



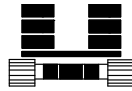
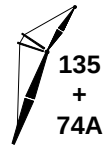
101,400 lb
+
0 lb



	87°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
55	73.8	268.6	40,400 b							55
60	71.8	267.0	39,800							60
65	69.8	265.3	39,100							65
70	67.7	263.3	38,500							70
75	65.6	261.2	37,600	69.0	263.7	38,300				75
80	63.5	258.8	36,300	67.0	261.7	35,100				80
85	61.4	256.2	34,900	64.9	259.5	32,400	67.4	261.1	30,500	85
90	59.2	253.3	32,400	62.7	257.0	30,000	65.3	258.9	28,200	90
95	56.9	250.2	30,200	60.6	254.3	27,900	63.2	256.5	26,200	95
100	54.6	246.8	28,200	58.4	251.3	26,000	61.1	253.9	24,500	100
105	52.2	243.1	26,400	56.1	248.1	24,400	58.8	251.0	22,900	105
110	49.8	239.0	24,800	53.7	244.6	22,800	56.6	247.8	21,400	110
115	47.2	234.6	23,300	51.3	240.8	21,500	54.3	244.4	20,100	115
120	44.5	229.7	21,900	48.8	236.6	20,200	51.9	240.6	18,900	120
125	41.8	224.4	20,700	46.3	232.0	19,100	49.4	236.5	17,800	125
130	38.8	218.5	19,600	43.6	227.0	18,000	46.8	232.0	16,800	130
135	35.6	211.9	18,500	40.7	221.5	17,000	44.2	227.1	15,900	135
140	32.2	204.5	17,600	37.7	215.3	16,100	41.3	221.7	15,000	140
145	28.4	195.9	16,700	34.4	208.5	15,300	38.4	215.7	14,200	145
150	24.1	185.8	15,800	30.9	200.7	14,500	35.2	209.0	13,500	150
155	18.9	173.1	15,100	26.9	191.6	13,800	31.7	201.5	12,800	155
160	11.6	154.8	14,300	22.4	180.7	13,100	27.9	192.7	12,200	160
165				16.6	166.6	12,400	23.4	182.3	11,500	165
170				7.5	143.2	11,800	18.1	169.1	10,900	170
175							10.2	149.3	10,400	175
180										180
185										185
190										190
195										195
200										200
205										205

MLC165-1 S-1

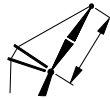
ASME B30.5



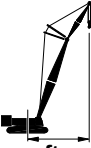
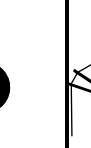
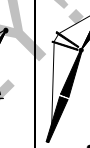
101,400 lb
+
0 lb

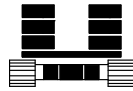
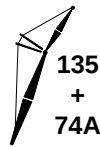


118.1 ft



150.0 ft

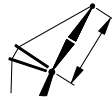
	75°			70°			65°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110	61.1	251.5	19,000							110
115	58.9	248.6	17,900							115
120	56.6	245.4	16,800							120
125	54.3	242.0	15,800							125
130	51.9	238.2	14,900	56.5	242.0	12,900				130
135	49.4	234.1	14,000	54.2	238.5	12,200				135
140	46.8	229.6	13,200	51.8	234.7	11,500				140
145	44.2	224.7	12,500	49.3	230.6	10,800				145
150	41.4	219.3	11,800	46.7	226.1	10,200	51.5	230.2	8,600	150
155	38.4	213.3	11,200	44.0	221.2	9,600	49.0	226.0	8,100	155
160	35.2	206.6	10,600	41.2	215.8	9,100	46.4	221.5	7,600	160
165	31.7	199.1	10,100	38.2	209.7	8,600	43.7	216.5	7,100	165
170	27.9	190.3	9,500	35.0	203.0	8,100	40.9	211.0	6,600	170
175	23.5	179.9	9,000	31.6	195.4	7,700	37.9	204.9	6,200	175
180	18.1	166.7	8,500	27.7	186.6	7,200	34.7	198.1	5,700	180
185	10.3	146.9	8,100	23.2	176.1	6,800	31.1	190.4	5,300	185
190				17.8	162.7	6,400	27.2	181.4	5,000	190
195				9.8	142.3	6,000	22.7	170.7	4,600	195
200							17.1	156.8	4,200	200
205							8.4	134.7	3,900	205



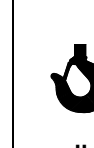
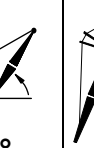
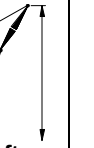
101,400 lb
+
0 lb



118.1 ft

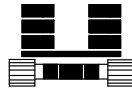
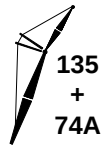


160.0 ft

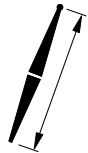
	87°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
55	74.8	278.9	37,700 b							55
60	73.0	277.5	37,000							60
65	71.1	275.9	36,400							65
70	69.2	274.1	35,600							70
75	67.2	272.1	34,300	70.4	274.4	36,200				75
80	65.3	269.9	33,000	68.5	272.5	34,800				80
85	63.3	267.5	31,700	66.5	270.4	32,100				85
90	61.3	264.8	30,400	64.6	268.2	29,700	67.0	269.9	27,900	90
95	59.2	262.0	29,200	62.6	265.7	27,600	65.0	267.6	25,900	95
100	57.1	258.9	27,900	60.5	263.0	25,800	63.0	265.2	24,100	100
105	54.9	255.5	26,100	58.5	260.0	24,100	61.0	262.5	22,500	105
110	52.7	251.8	24,500	56.3	256.8	22,600	58.9	259.6	21,100	110
115	50.4	247.9	23,000	54.2	253.3	21,200	56.8	256.5	19,800	115
120	48.1	243.6	21,700	51.9	249.6	19,900	54.6	253.1	18,600	120
125	45.6	238.9	20,500	49.6	245.5	18,800	52.4	249.4	17,500	125
130	43.1	233.8	19,300	47.2	241.0	17,700	50.1	245.4	16,500	130
135	40.4	228.2	18,300	44.7	236.2	16,800	47.7	241.0	15,600	135
140	37.5	222.0	17,400	42.1	230.9	15,900	45.3	236.3	14,700	140
145	34.5	215.1	16,500	39.4	225.1	15,000	42.7	231.1	14,000	145
150	31.2	207.3	15,600	36.4	218.7	14,300	40.0	225.4	13,200	150
155	27.5	198.4	14,800	33.3	211.5	13,500	37.1	219.1	12,500	155
160	23.3	187.9	14,100	29.9	203.4	12,800	34.0	212.1	11,900	160
165	18.3	174.7	13,400	26.1	194.0	12,200	30.7	204.2	11,300	165
170	11.3	155.8	12,700	21.7	182.7	11,600	27.0	195.2	10,700	170
175				16.1	168.1	11,000	22.7	184.3	10,200	175
180				7.3	143.9	10,400	17.5	170.7	9,600	180
185							9.9	150.1	9,100	185
190										190
195										195
200										200
205										205
210										210

MLC165-1 S-1

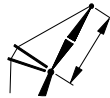
ASME B30.5



101,400 lb
+
0 lb

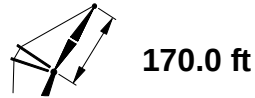
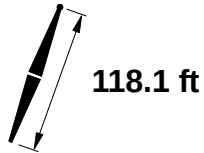
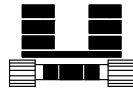
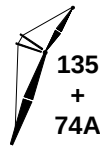


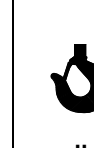
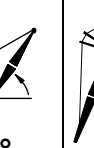
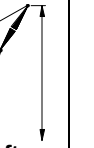
118.1 ft



160.0 ft

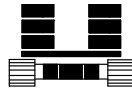
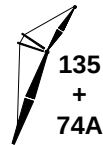
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110										110
115	61.0	260.1	17,500							115
120	58.9	257.2	16,400							120
125	56.8	254.1	15,400							125
130	54.6	250.7	14,500							130
135	52.4	247.0	13,700	56.7	250.7	11,800				135
140	50.1	243.0	12,900	54.5	247.2	11,100				140
145	47.7	238.6	12,200	52.3	243.5	10,400				145
150	45.3	233.9	11,500	50.0	239.5	9,800				150
155	42.7	228.7	10,900	47.6	235.1	9,300	52.1	239.0	7,600	155
160	40.0	223.0	10,300	45.2	230.4	8,700	49.8	234.9	7,000	160
165	37.1	216.7	9,800	42.6	225.2	8,200	47.4	230.5	6,600	165
170	34.0	209.7	9,200	39.9	219.4	7,800	44.9	225.7	6,100	170
175	30.7	201.9	8,700	37.0	213.1	7,300	42.3	220.4	5,700	175
180	27.0	192.8	8,300	33.9	206.1	6,900	39.5	214.7	5,300	180
185	22.7	182.0	7,800	30.5	198.2	6,500	36.6	208.3	4,900	185
190	17.5	168.3	7,400	26.8	189.0	6,100	33.5	201.2	4,500	190
195	9.9	147.8	7,000	22.5	178.1	5,700	30.1	193.1	4,100	195
200				17.2	164.3	5,300	26.3	183.8	3,800	200
205				9.4	143.2	4,900	22.0	172.6	3,500	205
210							16.5	158.3	3,100	210



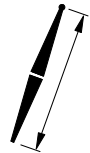
	87°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
60	74.0	287.9	33,900							60
65	72.2	286.4	33,300							65
70	70.4	284.7	32,500							70
75	68.6	282.9	31,600							75
80	66.8	280.8	30,300	69.8	283.2	32,300				80
85	65.0	278.6	29,100	68.0	281.3	31,100				85
90	63.1	276.1	27,900	66.2	279.2	29,500				90
95	61.2	273.5	26,700	64.3	276.8	27,400	66.6	278.6	25,700	95
100	59.3	270.6	25,500	62.4	274.3	25,500	64.7	276.3	23,900	100
105	57.3	267.5	24,400	60.5	271.6	23,800	62.8	273.9	22,300	105
110	55.2	264.2	23,200	58.5	268.7	22,300	60.9	271.2	20,900	110
115	53.2	260.6	22,200	56.6	265.5	21,000	59.0	268.3	19,600	115
120	51.0	256.7	21,100	54.5	262.1	19,700	57.0	265.2	18,400	120
125	48.8	252.5	20,100	52.4	258.4	18,600	55.0	261.8	17,300	125
130	46.6	247.9	19,100	50.2	254.4	17,500	52.9	258.2	16,300	130
135	44.2	243.0	18,100	48.0	250.0	16,500	50.7	254.2	15,400	135
140	41.7	237.6	17,200	45.7	245.3	15,700	48.5	250.0	14,500	140
145	39.1	231.8	16,300	43.3	240.3	14,800	46.2	245.4	13,700	145
150	36.4	225.3	15,400	40.8	234.7	14,000	43.8	240.4	13,000	150
155	33.4	218.1	14,700	38.1	228.6	13,300	41.4	234.9	12,300	155
160	30.2	210.1	13,800	35.3	221.9	12,600	38.7	229.0	11,700	160
165	26.7	200.8	12,900	32.3	214.5	12,000	36.0	222.4	11,100	165
170	22.6	189.9	12,000	29.0	206.0	11,400	33.0	215.1	10,500	170
175	17.7	176.3	11,200	25.3	196.3	10,800	29.7	206.9	10,000	175
180	10.9	156.8	10,500	21.0	184.6	10,300	26.1	197.5	9,500	180
185				15.6	169.5	9,800	22.0	186.3	9,000	185
190				7.0	144.5	9,300	17.0	172.2	8,500	190
195							9.6	151.0	8,100	195
200										200
205										205
210										210
215										215

MLC165-1 S-1

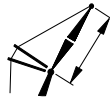
ASME B30.5



101,400 lb
+
0 lb

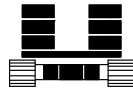
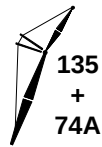


118.1 ft

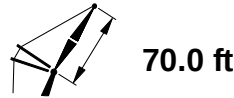
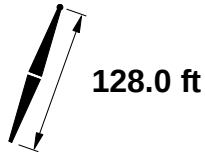


170.0 ft

	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	62.8	271.5	17,300							115
120	60.9	268.8	16,200							120
125	59.0	265.9	15,200							125
130	57.0	262.8	14,300							130
135	55.0	259.4	13,400							135
140	52.9	255.8	12,700	56.9	259.3	10,800				140
145	50.7	251.8	12,000	54.9	255.9	10,200				145
150	48.5	247.6	11,300	52.8	252.3	9,600				150
155	46.2	243.0	10,700	50.6	248.3	9,000				155
160	43.9	238.0	10,100	48.4	244.1	8,500	52.5	247.7	6,700	160
165	41.4	232.5	9,500	46.1	239.5	8,000	50.4	243.8	6,200	165
170	38.7	226.6	9,000	43.7	234.4	7,500	48.2	239.5	5,700	170
175	36.0	220.0	8,500	41.2	229.0	7,100	45.9	234.8	5,300	175
180	33.0	212.8	8,100	38.6	223.0	6,700	43.5	229.7	4,900	180
185	29.7	204.6	7,600	35.8	216.4	6,200	41.0	224.2	4,500	185
190	26.2	195.1	7,200	32.8	209.1	5,800	38.3	218.2	4,100	190
195	22.0	183.9	6,800	29.6	200.9	5,400	35.5	211.5	3,800	195
200	17.0	169.8	6,400	26.0	191.4	5,000	32.5	204.1	3,500	200
205	9.6	148.7	6,000	21.8	180.1	4,700	29.2	195.7	3,100	205
210				16.7	165.8	4,300				210
215				9.2	144.0	3,900				215



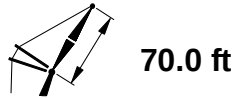
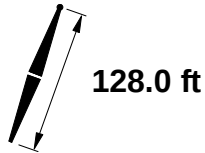
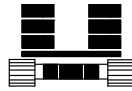
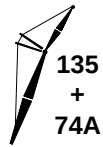
101,400 lb
+
0 lb



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
32	74.8	201.9	90,100 d							32
34	73.1	201.3	90,100 d							34
36	71.3	200.7	90,000 d							36
38	69.6	200.0	89,900 d							38
40	67.8	199.2	89,600 c							40
45	63.4	196.9	82,200 c							45
50	58.7	194.2	71,600 b	66.9	197.8	66,800 c				50
55	53.7	190.8	63,300 b	62.3	195.4	59,000 c				55
60	48.5	186.8	56,500 b	57.6	192.5	52,800 b	63.8	195.1	49,900 c	60
65	42.8	181.9	51,000	52.6	189.0	47,600 b	59.1	192.4	45,000 b	65
70	36.3	175.8	46,400	47.3	184.8	43,300	54.2	189.1	40,900 b	70
75	28.7	168.0	42,400	41.4	179.7	39,600	49.0	185.2	37,500 b	75
80	18.5	156.5	39,000	34.8	173.3	36,400	43.3	180.4	34,400	80
85				26.7	164.9	33,600	37.0	174.4	31,800	85
90				15.3	151.9	31,100	29.5	166.8	29,500	90
95							19.7	155.9	27,400	95
100										100
105										105
110										110
115										115
120										120
125										125
130										130

MLC165-1 S-1

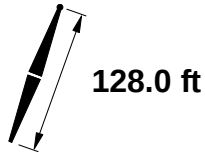
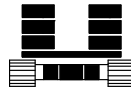
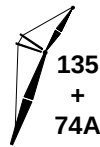
ASME B30.5

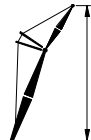
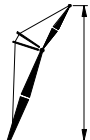


	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
32										32
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75	60.0	190.3	33,900 b							75
80	55.1	187.1	31,100 b							80
85	49.9	183.3	28,800 b							85
90	44.4	178.6	26,700	55.7	184.0	23,800 b				90
95	38.1	172.9	24,800	50.6	180.2	22,100 b				95
100	30.9	165.7	23,100	45.0	175.7	20,600				100
105	21.7	155.6	21,600	38.9	170.1	19,300	50.8	176.0	17,000 b	105
110				31.8	163.1	18,000	45.3	171.5	15,900	110
115				22.9	153.4	16,900	39.2	166.0	14,900	115
120				7.1	134.8	15,700	32.2	159.0	13,900	120
125							23.4	149.5	13,100	125
130							8.5	132.1	12,200	130

MLC165-1 S-1

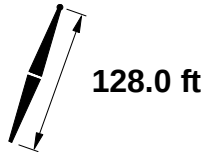
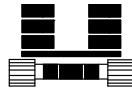
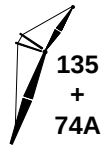
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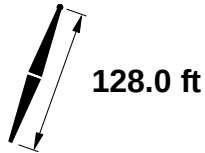
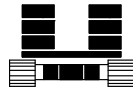
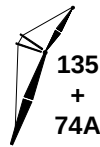
	 87°			 83°			 80°			
 ft	 °	 ft	 lb	 °	 ft	 lb	 °	 ft	 lb	 ft
36	73.7	211.2	82,500 d							36
38	72.2	210.6	82,300 d							38
40	70.7	209.9	82,200 c							40
45	66.9	207.9	79,500 c							45
50	62.9	205.6	71,400 b	69.9	208.5	66,500 c				50
55	58.8	202.8	63,000 b	66.0	206.5	58,700 c				55
60	54.6	199.5	56,300 b	62.0	204.1	52,500 b	67.3	206.1	49,600 c	60
65	50.0	195.7	50,800	57.9	201.2	47,300 b	63.3	203.8	44,700 b	65
70	45.2	191.1	46,200	53.6	197.8	43,000	59.3	201.1	40,600 b	70
75	39.9	185.6	42,300	49.0	193.8	39,400	55.0	197.8	37,100 b	75
80	33.9	179.0	38,900	44.0	189.0	36,200	50.5	194.0	34,200	80
85	26.8	170.4	36,000	38.6	183.3	33,500	45.7	189.5	31,600	85
90	17.3	158.1	33,300	32.4	176.3	31,000	40.4	184.2	29,300	90
95				25.0	167.2	28,900	34.5	177.7	27,200	95
100				14.3	153.2	26,900	27.6	169.4	25,400	100
105							18.4	157.6	23,700	105
110										110
115										115
120										120
125										125
130										130
135										135
140										140

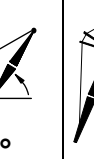
MLC165-1 S-1

ASME B30.5



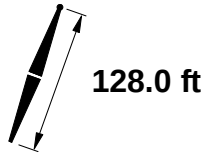
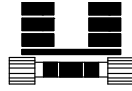
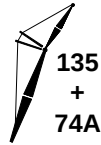
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80	60.0	199.0	30,700 b							80
85	55.7	195.8	28,400 b							85
90	51.3	192.1	26,300							90
95	46.5	187.8	24,500	56.2	192.7	21,700 b				95
100	41.4	182.6	22,800	51.8	189.0	20,300				100
105	35.6	176.3	21,300	47.1	184.8	18,900				105
110	28.9	168.3	20,000	42.0	179.7	17,700	52.0	184.8	15,500	110
115	20.3	157.4	18,700	36.3	173.5	16,600	47.3	180.5	14,500	115
120				29.7	165.8	15,600	42.2	175.5	13,600	120
125				21.4	155.4	14,600	36.6	169.4	12,700	125
130				6.6	135.4	13,700	30.1	161.8	12,000	130
135							21.9	151.6	11,200	135
140							8.0	132.8	10,500	140

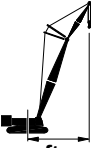
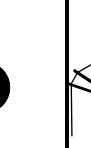
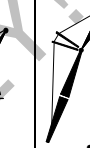


	87°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
38	74.3	221.0	75,400 d							38
40	72.9	220.4	75,200 c							40
45	69.6	218.7	74,800 c							45
50	66.1	216.7	71,200 b							50
55	62.6	214.3	62,900 b	68.8	217.3	58,500 c				55
60	59.0	211.5	56,200 b	65.4	215.2	52,300 b				60
65	55.2	208.2	50,700	61.8	212.8	47,100 b	66.5	214.8	44,500 b	65
70	51.2	204.5	46,100	58.1	209.9	42,800 b	63.0	212.5	40,400 b	70
75	47.0	200.2	42,200	54.3	206.5	39,200	59.3	209.7	36,900 b	75
80	42.5	195.1	38,800	50.3	202.7	36,100	55.6	206.5	34,000	80
85	37.5	189.2	35,900	46.0	198.2	33,300	51.6	202.8	31,400	85
90	31.9	181.9	33,300	41.4	192.9	30,900	47.4	198.6	29,100	90
95	25.3	172.8	31,000	36.3	186.7	28,800	42.9	193.6	27,100	95
100	16.3	159.6	28,900	30.5	179.2	26,900	38.0	187.7	25,300	100
105				23.5	169.4	25,100	32.5	180.7	23,700	105
110				13.5	154.4	23,500	26.0	171.7	22,200	110
115							17.3	159.1	20,800	115
120										120
125										125
130										130
135										135
140										140
145										145
150										150

MLC165-1 S-1

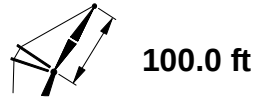
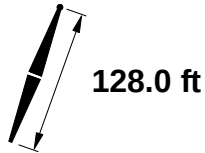
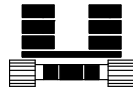
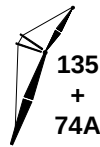
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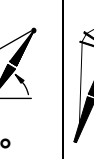


	75°			70°			65°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90	60.0	207.6	28,200 b							90
95	56.2	204.5	26,100							95
100	52.3	200.9	24,300							100
105	48.1	196.7	22,600	56.7	201.4	20,000				105
110	43.7	191.9	21,200	52.8	197.8	18,700				110
115	38.9	186.2	19,800	48.6	193.7	17,500				115
120	33.5	179.4	18,600	44.3	189.0	16,400	53.0	193.5	14,200	120
125	27.2	170.8	17,500	39.5	183.4	15,400	48.8	189.5	13,400	125
130	19.1	159.1	16,500	34.2	176.7	14,500	44.5	184.8	12,500	130
135				28.0	168.4	13,700	39.7	179.2	11,800	135
140				20.2	157.2	12,800	34.4	172.6	11,100	140
145				6.2	136.0	12,000	28.3	164.4	10,400	145
150							20.6	153.4	9,800	150
							7.5	133.5	9,100	150

MLC165-1 S-1

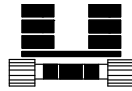
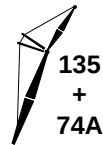
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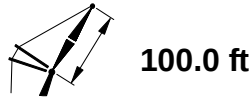
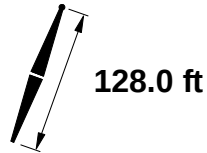
	87°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
40	74.7	230.8	69,300 c							40
45	71.7	229.3	68,900 c							45
50	68.7	227.5	68,500 b							50
55	65.5	225.4	62,600 b							55
60	62.4	222.9	56,000 b	68.0	226.1	51,900 b				60
65	59.1	220.1	50,500	64.8	223.9	46,800 b				65
70	55.7	216.9	45,900	61.6	221.4	42,500	65.9	223.6	40,000 b	70
75	52.1	213.3	42,000	58.3	218.5	38,900	62.7	221.2	36,600 b	75
80	48.4	209.1	38,600	54.9	215.2	35,800	59.4	218.4	33,600	80
85	44.4	204.4	35,700	51.3	211.5	33,000	56.0	215.2	31,100	85
90	40.2	198.9	33,100	47.5	207.2	30,700	52.5	211.6	28,800	90
95	35.5	192.4	30,900	43.5	202.3	28,500	48.8	207.5	26,800	95
100	30.2	184.7	28,800	39.2	196.6	26,600	44.8	202.8	25,000	100
105	23.9	174.9	27,000	34.4	189.9	24,900	40.6	197.4	23,400	105
110	15.4	161.0	25,300	28.9	181.8	23,400	36.0	191.1	21,900	110
115				22.3	171.4	22,000	30.8	183.5	20,600	115
120				12.8	155.6	20,600	24.6	174.0	19,400	120
125							16.4	160.6	18,200	125
130										130
135										135
140										140
145										145
150										150
155										155
160										160

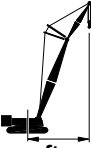
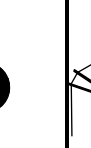
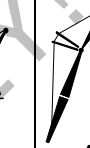
MLC165-1 S-1

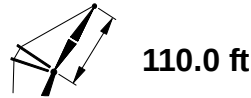
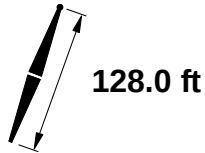
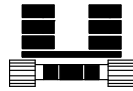
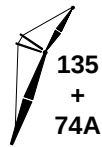
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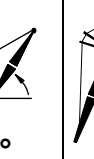


101,400 lb
+
0 lb



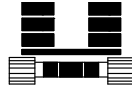
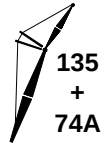
	75°			70°			65°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90	60.0	216.3	25,700							90
95	56.6	213.2	23,900							95
100	53.1	209.7	22,300							100
105	49.4	205.7	20,800	57.0	210.0	18,300				105
110	45.5	201.1	19,500	53.5	206.6	17,100				110
115	41.4	195.8	18,300	49.9	202.6	16,000				115
120	36.8	189.6	17,200	46.0	198.1	15,100				120
125	31.7	182.3	16,200	41.9	192.9	14,200	50.0	198.4	12,100	125
130	25.8	173.2	15,300	37.4	186.9	13,300	46.2	193.9	11,400	130
135	18.1	160.8	14,400	32.4	179.7	12,600	42.1	188.7	10,700	135
140				26.5	170.8	11,800	37.6	182.7	10,100	140
145				19.2	159.0	11,100	32.6	175.6	9,500	145
150				5.9	136.5	10,400	26.8	166.9	8,900	150
155							19.6	155.2	8,400	155
160							7.1	134.1	7,800	160



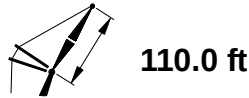
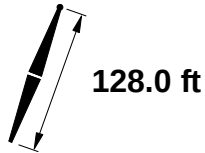
	87°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
45	73.4	239.8	63,700 c							45
50	70.7	238.2	63,300 b							50
55	67.9	236.3	60,600 b							55
60	65.1	234.1	55,900	70.1	236.8	51,900 b				60
65	62.1	231.6	50,400	67.3	234.9	46,700 b				65
70	59.2	228.8	45,800	64.4	232.6	42,500				70
75	56.1	225.6	41,900	61.5	230.1	38,800	65.3	232.3	36,500 b	75
80	52.9	222.1	38,600	58.5	227.2	35,700	62.4	229.8	33,600	80
85	49.5	218.0	35,700	55.4	223.9	33,000	59.5	227.1	31,000	85
90	46.0	213.5	33,100	52.1	220.3	30,600	56.4	223.9	28,700	90
95	42.3	208.3	30,800	48.8	216.1	28,500	53.2	220.4	26,800	95
100	38.2	202.4	28,800	45.2	211.5	26,600	49.9	216.4	25,000	100
105	33.8	195.6	27,000	41.4	206.2	24,900	46.4	211.9	23,400	105
110	28.8	187.3	25,400	37.3	200.1	23,400	42.7	206.8	21,900	110
115	22.8	177.0	23,900	32.8	192.9	22,000	38.7	201.0	20,600	115
120	14.7	162.3	22,500	27.6	184.3	20,800	34.3	194.3	19,400	120
125				21.3	173.3	19,600	29.3	186.2	18,300	125
130				12.2	156.7	18,500	23.5	176.1	17,300	130
135							15.7	162.0	16,300	135
140										140
145										145
150										150
155										155
160										160
165										165
170										170

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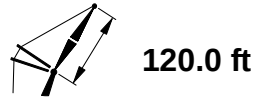
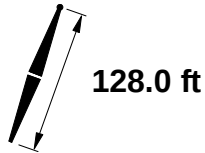
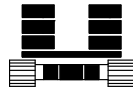
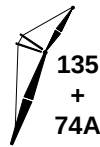
ASME B30.5



101,400 lb
+
0 lb



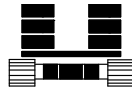
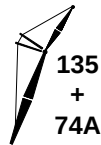
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90	62.9	227.7	25,700							90
95	60.0	224.9	23,900							95
100	56.9	221.9	22,200							100
105	53.7	218.4	20,800							105
110	50.4	214.5	19,500	57.3	218.7	17,100				110
115	47.0	210.1	18,300	54.1	215.3	16,000				115
120	43.3	205.2	17,200	50.8	211.5	15,000				120
125	39.4	199.5	16,200	47.4	207.1	14,100				125
130	35.1	192.9	15,300	43.7	202.2	13,300	51.0	207.2	11,400	130
135	30.2	185.1	14,500	39.8	196.6	12,600	47.6	202.9	10,700	135
140	24.6	175.4	13,700	35.6	190.2	11,800	43.9	198.0	10,100	140
145	17.3	162.3	12,900	30.8	182.5	11,200	40.0	192.5	9,500	145
150				25.3	173.1	10,600	35.8	186.0	8,900	150
155				18.3	160.6	10,000	31.1	178.5	8,400	155
160				5.6	137.0	9,300	25.6	169.2	7,900	160
165							18.6	156.9	7,400	165
170							6.8	134.7	6,900	170



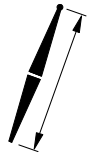
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
45	74.8	250.2	55,100 c							45
50	72.3	248.7	55,100 b							50
55	69.8	247.0	55,100 b							55
60	67.3	245.0	53,300							60
65	64.6	242.8	50,100	69.3	245.6	46,400 b				65
70	62.0	240.3	45,600	66.7	243.6	42,200				70
75	59.2	237.5	41,700	64.1	241.3	38,500	67.5	243.2	36,200	75
80	56.4	234.3	38,300	61.4	238.7	35,400	64.9	241.0	33,200	80
85	53.5	230.8	35,400	58.6	235.9	32,700	62.2	238.5	30,700	85
90	50.5	226.9	32,900	55.8	232.6	30,300	59.5	235.7	28,400	90
95	47.3	222.5	30,600	52.8	229.0	28,200	56.7	232.6	26,400	95
100	44.0	217.6	28,600	49.8	225.0	26,300	53.8	229.1	24,700	100
105	40.4	212.1	26,800	46.6	220.6	24,700	50.8	225.3	23,100	105
110	36.6	205.8	25,200	43.2	215.5	23,100	47.6	220.9	21,600	110
115	32.3	198.5	23,700	39.6	209.9	21,800	44.3	216.1	20,300	115
120	27.5	189.9	22,300	35.7	203.4	20,500	40.8	210.7	19,100	120
125	21.8	179.0	21,100	31.3	195.8	19,400	36.9	204.4	18,100	125
130	14.1	163.5	19,900	26.4	186.7	18,300	32.8	197.3	17,000	130
135				20.3	175.1	17,300	28.1	188.7	16,100	135
140				11.7	157.7	16,300	22.5	178.1	15,200	140
145							15.0	163.4	14,400	145
150										150
155										155
160										160
165										165
170										170
175										175
180										180

MLC165-1 S-1

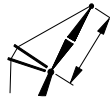
ASME B30.5



101,400 lb
+
0 lb



128.0 ft

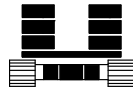
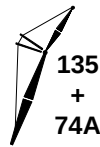


120.0 ft

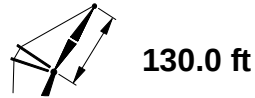
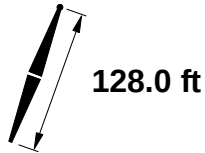
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95	62.7	236.3	23,500							95
100	60.0	233.6	21,900							100
105	57.2	230.6	20,400							105
110	54.3	227.1	19,100							110
115	51.3	223.3	18,000	57.5	227.4	15,600				115
120	48.2	219.1	16,900	54.6	224.0	14,600				120
125	44.9	214.4	15,900	51.6	220.3	13,800				125
130	41.4	209.0	15,000	48.5	216.1	13,000				130
135	37.6	203.0	14,100	45.3	211.4	12,200	51.8	216.0	10,300	135
140	33.5	196.0	13,400	41.8	206.1	11,500	48.7	211.8	9,700	140
145	28.9	187.7	12,600	38.1	200.2	10,900	45.4	207.2	9,100	145
150	23.5	177.5	11,900	34.0	193.3	10,200	42.0	202.0	8,600	150
155	16.5	163.8	11,300	29.5	185.2	9,700	38.3	196.0	8,100	155
160				24.2	175.3	9,100	34.2	189.2	7,600	160
165				17.5	162.2	8,600	29.7	181.2	7,100	165
170				5.4	137.5	8,100	24.5	171.4	6,700	170
175							17.8	158.5	6,200	175
180							6.5	135.3	5,700	180

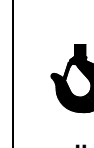
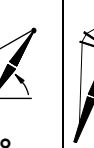
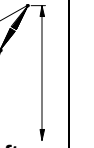
MLC165-1 S-1

ASME B30.5



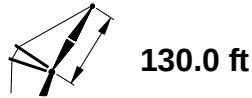
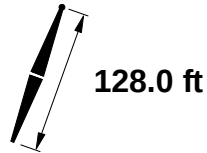
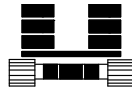
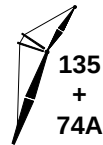
101,400 lb
+
0 lb

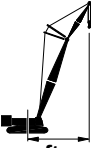
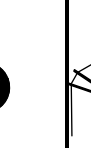
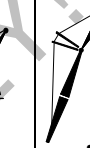


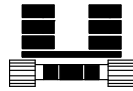
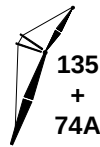
	87°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
50	73.7	259.2	45,800 b							50
55	71.4	257.6	45,100 b							55
60	69.1	255.8	44,300							60
65	66.7	253.8	43,600	70.9	256.3	45,100 b				65
70	64.3	251.5	42,900	68.6	254.4	41,900				70
75	61.8	248.9	41,500	66.2	252.3	38,300				75
80	59.3	246.1	38,100	63.7	250.0	35,200	67.0	251.9	33,000	80
85	56.7	243.0	35,200	61.3	247.4	32,500	64.5	249.7	30,400	85
90	54.0	239.5	32,700	58.7	244.5	30,100	62.1	247.2	28,200	90
95	51.2	235.7	30,400	56.1	241.3	28,000	59.5	244.4	26,200	95
100	48.4	231.5	28,400	53.4	237.8	26,100	56.9	241.3	24,400	100
105	45.3	226.8	26,600	50.6	233.9	24,500	54.3	237.9	22,900	105
110	42.1	221.6	25,000	47.7	229.6	23,000	51.5	234.1	21,400	110
115	38.7	215.7	23,500	44.6	224.8	21,600	48.6	229.9	20,100	115
120	35.1	209.1	22,200	41.4	219.4	20,300	45.6	225.2	18,900	120
125	31.0	201.4	20,900	38.0	213.4	19,200	42.5	220.1	17,900	125
130	26.4	192.2	19,800	34.2	206.5	18,100	39.1	214.3	16,900	130
135	21.0	180.9	18,700	30.1	198.5	17,100	35.4	207.7	15,900	135
140	13.5	164.7	17,700	25.3	189.0	16,200	31.4	200.1	15,100	140
145				19.5	176.9	15,400	26.9	191.2	14,300	145
150				11.2	158.7	14,600	21.6	180.1	13,500	150
155							14.4	164.7	12,800	155
160										160
165										165
170										170
175										175
180										180
185										185
190										190

MLC165-1 S-1

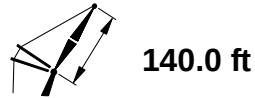
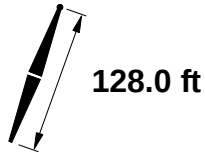
ASME B30.5



	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										95
100	62.5	245.0	21,600							100
105	60.0	242.3	20,200							105
110	57.4	239.2	18,900							110
115	54.7	235.9	17,700							115
120	52.0	232.1	16,600	57.7	236.1	14,400				120
125	49.1	228.0	15,700	55.1	232.7	13,500				125
130	46.2	223.5	14,800	52.3	229.1	12,700				130
135	43.0	218.4	13,900	49.5	225.0	12,000				135
140	39.7	212.7	13,200	46.5	220.5	11,300	52.5	224.8	9,400	140
145	36.1	206.3	12,400	43.4	215.5	10,600	49.6	220.7	8,900	145
150	32.2	198.9	11,800	40.1	209.9	10,000	46.7	216.3	8,300	150
155	27.7	190.2	11,100	36.5	203.5	9,500	43.5	211.3	7,800	155
160	22.6	179.6	10,500	32.6	196.3	8,900	40.2	205.7	7,300	160
165	15.9	165.2	10,000	28.3	187.8	8,400	36.7	199.4	6,800	165
170				23.2	177.4	8,000	32.8	192.2	6,300	170
175				16.8	163.7	7,500	28.5	183.8	5,900	175
180				5.2	137.9	7,000	23.5	173.5	5,500	180
185							17.1	160.0	5,100	185
190							6.2	135.9	4,600	190



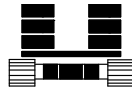
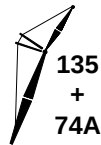
101,400 lb
+
0 lb



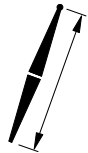
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
50	74.9	269.5	42,900 b							50
55	72.8	268.1	42,200 b							55
60	70.6	266.4	41,500							60
65	68.5	264.6	40,900							65
70	66.2	262.5	40,300	70.2	265.1	41,600				70
75	64.0	260.2	39,100	68.0	263.2	38,000				75
80	61.7	257.6	37,400	65.7	261.1	34,900				80
85	59.3	254.8	35,000	63.5	258.7	32,200	66.5	260.7	30,100	85
90	56.9	251.7	32,400	61.2	256.1	29,800	64.2	258.4	27,800	90
95	54.5	248.3	30,200	58.8	253.2	27,700	61.9	255.8	25,900	95
100	51.9	244.5	28,200	56.4	250.0	25,800	59.6	253.0	24,100	100
105	49.2	240.4	26,400	53.9	246.5	24,200	57.2	250.0	22,500	105
110	46.5	235.9	24,800	51.3	242.7	22,700	54.7	246.6	21,100	110
115	43.6	230.9	23,300	48.6	238.5	21,300	52.2	242.9	19,800	115
120	40.5	225.4	21,900	45.9	233.9	20,100	49.5	238.8	18,600	120
125	37.3	219.2	20,700	42.9	228.8	18,900	46.8	234.3	17,600	125
130	33.8	212.2	19,600	39.8	223.1	17,900	43.9	229.4	16,600	130
135	29.9	204.1	18,500	36.5	216.7	16,900	40.8	223.9	15,700	135
140	25.5	194.6	17,600	32.9	209.5	16,000	37.6	217.8	14,800	140
145	20.2	182.7	16,700	28.9	201.2	15,200	34.1	210.8	14,000	145
150	13.0	165.9	15,800	24.4	191.2	14,400	30.3	202.9	13,300	150
155				18.8	178.6	13,600	25.9	193.5	12,600	155
160				10.8	159.7	12,900	20.8	181.9	11,900	160
165							13.9	165.9	11,300	165
170										170
175										175
180										180
185										185
190										190
195										195
200										200

MLC165-1 S-1

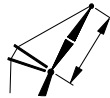
ASME B30.5



101,400 lb
+
0 lb

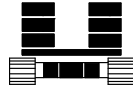
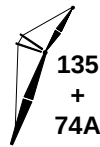


128.0 ft



140.0 ft

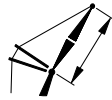
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105	62.3	253.7	19,800							105
110	60.0	250.9	18,500							110
115	57.6	247.9	17,400							115
120	55.1	244.6	16,300							120
125	52.6	240.9	15,300	57.9	244.7	13,100				125
130	50.0	236.9	14,400	55.4	241.4	12,300				130
135	47.2	232.5	13,600	52.9	237.8	11,600				135
140	44.4	227.6	12,800	50.3	233.9	10,900				140
145	41.4	222.3	12,100	47.6	229.5	10,300				145
150	38.2	216.2	11,500	44.7	224.7	9,700	50.4	229.6	7,800	150
155	34.7	209.5	10,800	41.7	219.4	9,100	47.7	225.3	7,200	155
160	31.0	201.7	10,300	38.6	213.4	8,600	44.9	220.5	6,700	160
165	26.7	192.7	9,700	35.2	206.8	8,100	41.9	215.2	6,300	165
170	21.7	181.5	9,200	31.4	199.2	7,600	38.7	209.3	5,800	170
175	15.3	166.6	8,700	27.3	190.3	7,200	35.3	202.7	5,400	175
180				22.4	179.4	6,800	31.6	195.1	5,000	180
185				16.2	165.1	6,400	27.5	186.3	4,600	185
190				5.0	138.4	5,900	22.6	175.6	4,300	190
195							16.5	161.5	3,900	195
200							6.0	136.4	3,500	200



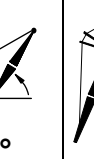
101,400 lb
+
0 lb



128.0 ft

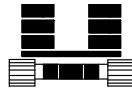
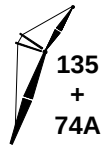


150.0 ft

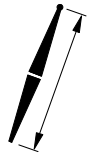
	87°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
55	74.0	278.5	39,500	b						55
60	72.0	277.0	39,000							60
65	70.0	275.3	38,400							65
70	67.9	273.4	37,400							70
75	65.8	271.2	36,100							75
80	63.7	268.9	34,900		69.5	273.9	37,900			80
85	61.6	266.3	33,600		67.5	272.0	34,800			85
90	59.4	263.4	32,200		65.4	269.8	32,100			90
95	57.1	260.4	30,100		63.3	267.4	29,700	66.0	269.4	27,700
100	54.8	257.0	28,100		61.1	264.7	27,600	63.9	267.1	25,800
105	52.5	253.3	26,300		58.9	261.8	25,700	61.8	264.5	24,000
110	50.0	249.3	24,700		56.6	258.7	24,100	59.6	261.7	22,400
115	47.5	244.9	23,200		54.3	255.3	22,600	57.4	258.6	21,000
120	44.8	240.1	21,900		51.9	251.5	21,200	55.1	255.3	19,700
125	42.0	234.8	20,600		49.5	247.4	20,000	52.7	251.6	18,500
130	39.1	229.0	19,500		46.9	242.9	18,800	50.3	247.7	17,500
135	36.0	222.5	18,500		44.2	238.0	17,800	47.7	243.3	16,500
140	32.6	215.1	17,500		41.4	232.6	16,800	45.1	238.5	15,600
145	28.8	206.7	16,600		38.4	226.6	15,900	42.3	233.3	14,700
150	24.6	196.8	15,800		35.2	220.0	15,100	39.4	227.5	13,900
155	19.5	184.4	15,000		31.8	212.4	14,300	36.3	221.1	13,200
160	12.6	167.0	14,200		27.9	203.7	13,600	32.9	213.8	12,500
165					23.5	193.3	12,900	29.2	205.6	11,900
170					18.2	180.2	12,300	25.0	195.8	11,300
175					10.4	160.6	11,600	20.1	183.7	10,700
180								13.4	167.1	10,100
185										
190										
195										
200										
205										

MLC165-1 S-1

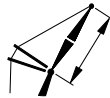
ASME B30.5



101,400 lb
+
0 lb

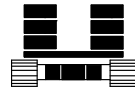
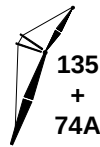


128.0 ft



150.0 ft

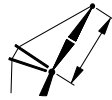
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110	62.2	262.4	18,400							110
115	60.0	259.6	17,300							115
120	57.7	256.6	16,200							120
125	55.5	253.3	15,200							125
130	53.1	249.7	14,300							130
135	50.7	245.8	13,500	55.7	250.1	11,500				135
140	48.2	241.5	12,700	53.4	246.6	10,800				140
145	45.5	236.8	12,000	51.0	242.7	10,200				145
150	42.8	231.6	11,400	48.5	238.4	9,600				150
155	39.9	226.0	10,800	45.9	233.8	9,000	51.1	238.4	7,100	155
160	36.8	219.6	10,200	43.1	228.7	8,500	48.6	234.2	6,600	160
165	33.5	212.5	9,700	40.3	223.1	8,000	46.0	229.6	6,100	165
170	29.9	204.5	9,100	37.2	216.9	7,600	43.3	224.5	5,700	170
175	25.8	195.0	8,700	33.9	209.9	7,100	40.4	218.9	5,300	175
180	21.0	183.4	8,200	30.3	201.9	6,700	37.4	212.7	4,900	180
185	14.8	167.9	7,700	26.3	192.6	6,300	34.1	205.8	4,500	185
190				21.6	181.4	5,900	30.5	197.9	4,200	190
195				15.6	166.5	5,500	26.5	188.7	3,800	195
200				4.8	138.8	5,100	21.8	177.5	3,500	200
205							15.9	162.9	3,100	205



101,400 lb
+
0 lb



128.0 ft

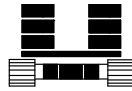
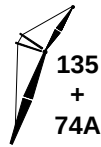


160.0 ft

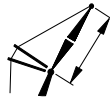
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
60	73.1	287.5	35,900							60
65	71.3	285.9	35,000							65
70	69.4	284.1	34,200							70
75	67.4	282.1	33,100	70.8	284.6	35,500				75
80	65.5	279.9	32,200	68.9	282.7	34,500				80
85	63.5	277.5	31,100	67.0	280.7	31,800				85
90	61.5	274.9	30,100	65.0	278.5	29,400	67.6	280.3	27,400	90
95	59.4	272.1	28,900	63.1	276.1	27,300	65.7	278.1	25,400	95
100	57.3	269.0	27,800	61.0	273.4	25,500	63.7	275.8	23,700	100
105	55.2	265.7	26,000	59.0	270.5	23,800	61.7	273.2	22,100	105
110	53.0	262.1	24,400	56.8	267.4	22,300	59.6	270.4	20,700	110
115	50.7	258.1	23,000	54.7	264.0	20,900	57.5	267.3	19,400	115
120	48.3	253.9	21,600	52.5	260.3	19,700	55.4	264.0	18,200	120
125	45.9	249.2	20,400	50.2	256.3	18,500	53.2	260.4	17,200	125
130	43.3	244.1	19,300	47.8	251.9	17,500	50.9	256.5	16,200	130
135	40.7	238.6	18,200	45.3	247.2	16,500	48.6	252.3	15,300	135
140	37.8	232.5	17,300	42.7	242.0	15,700	46.1	247.6	14,400	140
145	34.8	225.7	16,400	40.0	236.3	14,800	43.6	242.6	13,700	145
150	31.5	218.0	15,600	37.2	230.1	14,100	40.9	237.1	12,900	150
155	27.9	209.2	14,800	34.1	223.1	13,300	38.1	231.0	12,300	155
160	23.8	198.9	14,100	30.7	215.2	12,700	35.1	224.3	11,600	160
165	18.9	186.1	13,400	27.0	206.2	12,000	31.9	216.8	11,000	165
170	12.2	168.1	12,700	22.8	195.4	11,400	28.3	208.1	10,500	170
175				17.6	181.8	10,900	24.2	198.0	9,900	175
180				10.1	161.5	10,300	19.4	185.5	9,400	180
185							13.0	168.3	8,900	185
190										190
195										195
200										200
205										205
210										210

MLC165-1 S-1

ASME B30.5

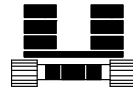
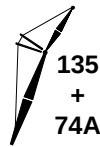


101,400 lb
+
0 lb

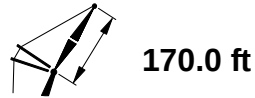
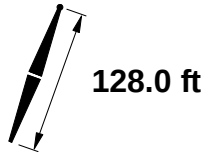


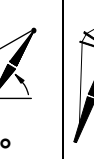
160.0 ft

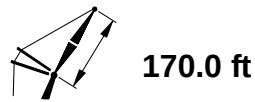
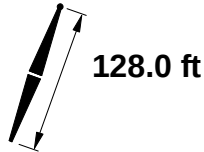
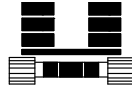
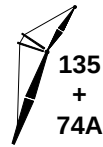
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110										110
115	62.0	271.0	16,900							115
120	60.0	268.2	15,800							120
125	57.9	265.2	14,900							125
130	55.8	262.0	14,000							130
135	53.6	258.4	13,200							135
140	51.3	254.6	12,400	56.0	258.8	10,400				140
145	49.0	250.4	11,700	53.8	255.3	9,800				145
150	46.5	245.9	11,100	51.6	251.5	9,200				150
155	44.0	240.9	10,500	49.2	247.4	8,700				155
160	41.4	235.5	9,900	46.8	242.9	8,200	51.7	247.2	6,000	160
165	38.6	229.5	9,300	44.3	238.0	7,700	49.4	243.1	5,600	165
170	35.6	222.9	8,800	41.7	232.6	7,200	47.0	238.6	5,200	170
175	32.4	215.5	8,400	38.9	226.7	6,700	44.4	233.8	4,800	175
180	28.9	207.1	7,900	36.0	220.2	6,300	41.8	228.4	4,400	180
185	25.0	197.2	7,500	32.8	212.9	5,900	39.1	222.5	4,000	185
190	20.3	185.2	7,100	29.4	204.6	5,500	36.1	216.1	3,700	190
195	14.3	169.2	6,700	25.5	194.9	5,100	33.0	208.8	3,300	195
200				20.9	183.3	4,700	29.5	200.6	3,000	200
205				15.1	167.9	4,300				205
210				4.7	139.2	3,900				210



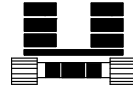
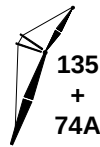
101,400 lb
+
0 lb



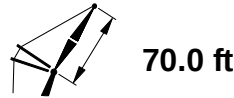
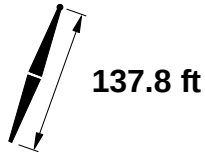
	87°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
60	74.2	297.9	32,500							60
65	72.4	296.4	31,900							65
70	70.6	294.7	31,200							70
75	68.8	292.9	30,300							75
80	67.0	290.9	29,500	70.2	293.4	31,500				80
85	65.2	288.6	28,700	68.4	291.5	31,000				85
90	63.3	286.2	27,800	66.6	289.4	29,200				90
95	61.4	283.6	26,600	64.8	287.2	27,100	67.2	289.0	25,200	95
100	59.5	280.8	25,500	62.9	284.7	25,200	65.4	286.8	23,400	100
105	57.5	277.7	24,300	61.0	282.1	23,600	63.5	284.4	21,900	105
110	55.5	274.4	23,200	59.0	279.2	22,100	61.6	281.8	20,400	110
115	53.4	270.8	22,200	57.0	276.0	20,700	59.7	279.0	19,200	115
120	51.3	266.9	21,200	55.0	272.7	19,500	57.7	276.0	18,000	120
125	49.1	262.8	20,200	52.9	269.0	18,300	55.7	272.7	16,900	125
130	46.8	258.3	19,100	50.8	265.1	17,300	53.6	269.1	15,900	130
135	44.4	253.4	18,000	48.6	260.9	16,300	51.5	265.3	15,000	135
140	42.0	248.0	17,100	46.3	256.3	15,400	49.3	261.2	14,200	140
145	39.4	242.2	16,200	43.9	251.3	14,600	47.0	256.7	13,400	145
150	36.6	235.8	15,400	41.4	245.9	13,900	44.7	251.8	12,700	150
155	33.7	228.7	14,600	38.8	239.9	13,100	42.2	246.5	12,000	155
160	30.6	220.8	13,900	36.0	233.4	12,500	39.6	240.8	11,400	160
165	27.1	211.7	13,000	33.0	226.1	11,800	36.9	234.4	10,800	165
170	23.1	201.0	12,100	29.8	217.9	11,200	34.0	227.4	10,300	170
175	18.3	187.7	11,300	26.2	208.5	10,700	30.9	219.6	9,700	175
180	11.8	169.2	10,600	22.1	197.4	10,200	27.4	210.6	9,200	180
185				17.1	183.3	9,600	23.5	200.1	8,800	185
190				9.8	162.4	9,100	18.8	187.2	8,300	190
195							12.6	169.4	7,800	195
200										200
205										205
210										210
215										215
220										220



	75°			70°			
	ft	ft	lb	ft	lb	ft	ft
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	61.9	279.7	15,600				120
125	60.0	276.9	14,600				125
130	58.0	273.9	13,700				130
135	56.0	270.7	12,900				135
140	54.0	267.2	12,200				140
145	51.8	263.4	11,500	56.2	267.5	9,600	145
150	49.7	259.3	10,800	54.2	264.0	9,000	150
155	47.4	254.9	10,200	52.1	260.3	8,400	155
160	45.1	250.1	9,600	49.9	256.2	7,800	160
165	42.6	244.9	9,100	47.7	251.9	7,300	165
170	40.1	239.2	8,600	45.4	247.1	6,800	170
175	37.4	233.0	8,100	42.9	242.0	6,400	175
180	34.5	226.1	7,700	40.4	236.3	5,900	180
185	31.4	218.4	7,300	37.7	230.2	5,500	185
190	28.0	209.6	6,900	34.9	223.4	5,100	190
195	24.2	199.4	6,500	31.8	215.8	4,800	195
200	19.7	187.0	6,100	28.5	207.2	4,400	200
205	13.9	170.4	5,700	24.7	197.2	4,000	205
210				20.3	185.1	3,700	210
215				14.7	169.2	3,400	215
220				4.5	139.6	3,000	220



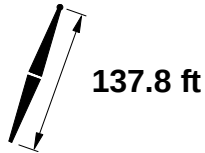
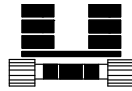
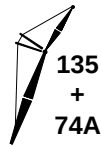
101,400 lb
+
0 lb

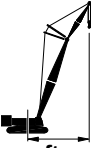
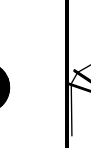
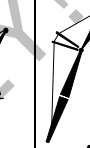


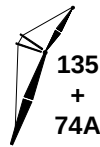
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
34	73.5	211.3	86,200 d							34
36	71.8	210.7	86,000 d							36
38	70.1	210.0	85,900 d							38
40	68.3	209.2	85,700 c							40
45	63.8	207.0	79,900 c							45
50	59.2	204.3	71,500 b	67.9	208.1	66,200 c				50
55	54.3	201.0	63,100 b	63.4	205.8	58,500 c				55
60	49.0	197.1	56,500 b	58.8	203.0	52,300 b	65.4	205.6	49,200 c	60
65	43.4	192.3	50,900	53.8	199.7	47,200 b	60.8	203.1	44,300 b	65
70	37.0	186.3	46,300	48.6	195.7	42,900 b	55.9	200.0	40,300 b	70
75	29.6	178.7	42,400	42.9	190.8	39,200	50.8	196.3	36,900 b	75
80	19.7	167.8	38,900	36.4	184.8	36,100	45.3	191.8	33,900	80
85				28.8	177.0	33,300	39.3	186.3	31,300	85
90				18.7	165.6	30,900	32.3	179.4	29,000	90
95							23.5	169.9	27,000	95
100							8.7	152.6	25,100	100
105										105
110										110
115										115
120										120
125										125
130										130

MLC165-1 S-1

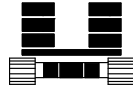
ASME B30.5



	75°			70°			65°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75	62.3	201.2	32,900 c							75
80	57.6	198.3	30,300 b							80
85	52.6	194.8	27,900 b							85
90	47.3	190.6	25,900							90
95	41.4	185.5	24,100	54.0	192.1	21,200 b				95
100	34.8	179.1	22,500	48.8	188.1	19,700 b				100
105	26.8	170.7	21,000	43.1	183.3	18,400				105
110	15.3	157.7	19,600	36.7	177.3	17,200	49.9	184.2	14,800 b	110
115				29.2	169.6	16,100	44.3	179.6	13,900	115
120				19.2	158.5	15,100	38.1	173.9	13,000	120
125							30.9	166.6	12,200	125
130							21.6	156.4	11,400	130



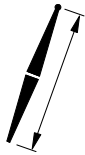
135
+
74A



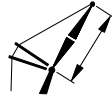
101,400 lb
+
0 lb



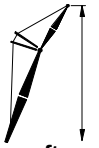
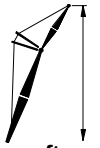
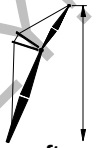
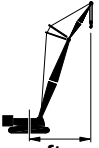
360°



137.8 ft

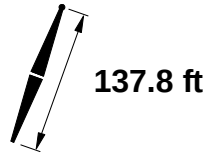
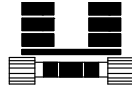
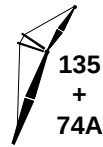


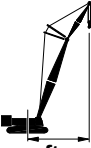
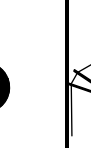
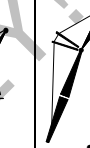
80.0 ft

	87°			83°			80°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
36	74.1	221.1	79,000 d							36
38	72.6	220.5	78,900 d							38
40	71.1	219.9	78,700 c							40
45	67.3	218.0	77,200 c							45
50	63.4	215.7	71,200 b	70.8	218.7	65,900 c				50
55	59.3	213.0	62,900 b	67.0	216.8	58,200 c				55
60	55.0	209.7	56,200 b	63.0	214.5	52,000 b				60
65	50.5	205.9	50,700	58.9	211.7	46,900 b	64.7	214.3	44,000 b	65
70	45.7	201.4	46,100	54.6	208.4	42,600 b	60.7	211.8	40,000 b	70
75	40.4	196.1	42,200	50.1	204.6	39,000	56.5	208.7	36,500 b	75
80	34.6	189.6	38,800	45.3	200.0	35,900	52.1	205.1	33,600	80
85	27.6	181.3	35,900	40.0	194.6	33,100	47.4	200.9	31,000	85
90	18.5	169.5	33,300	34.0	187.9	30,700	42.3	195.8	28,800	90
95				26.9	179.4	28,600	36.6	189.7	26,800	95
100				17.5	167.2	26,600	30.1	182.2	25,000	100
105							22.0	171.9	23,300	105
110							8.1	153.3	21,800	110
115										115
120										120
125										125
130										130
135										135
140										140

MLC165-1 S-1

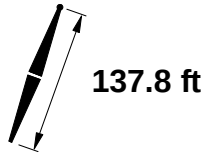
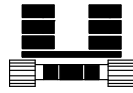
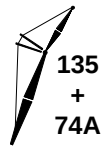
ASME B30.5

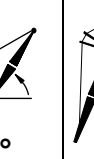


	75°			70°			65°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80	62.0	209.9	29,900 b							80
85	57.9	207.0	27,600 b							85
90	53.6	203.6	25,500							90
95	49.0	199.6	23,700							95
100	44.0	194.8	22,100	54.8	200.8	19,300 b				100
105	38.6	189.2	20,700	50.3	197.0	18,000				105
110	32.5	182.1	19,400	45.5	192.5	16,900				110
115	25.0	173.0	18,200	40.2	187.1	15,800	51.3	193.0	13,500	115
120	14.3	159.0	17,000	34.3	180.5	14,800	46.5	188.7	12,600	120
125				27.3	172.1	13,900	41.3	183.5	11,800	125
130				18.0	160.1	13,100	35.6	177.2	11,100	130
135							28.9	169.2	10,400	135
140							20.2	158.3	9,800	140

MLC165-1 S-1

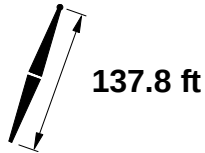
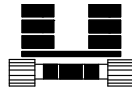
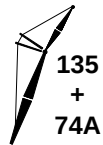
ASME B30.5



	87°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
38		74.6	231.0	72,400 d						38
40		73.3	230.4	72,200 c						40
45		69.9	228.7	71,800 c						45
50		66.5	226.7	69,500 b						50
55		63.0	224.4	62,800 b	69.6	227.6	58,000 c			55
60		59.4	221.6	56,100 b	66.2	225.5	51,800 b			60
65		55.6	218.4	50,600	62.7	223.2	46,700 b	67.7	225.3	43,700 b
70		51.6	214.7	46,000	59.0	220.4	42,400 b	64.2	223.0	39,700 b
75		47.4	210.5	42,100	55.2	217.1	38,800	60.6	220.4	36,300 b
80		42.9	205.5	38,800	51.3	213.4	35,700	56.9	217.4	33,400
85		38.0	199.6	35,800	47.1	209.1	33,000	53.0	213.9	30,900
90		32.5	192.6	33,300	42.5	204.0	30,600	48.9	209.8	28,600
95		26.0	183.7	31,000	37.6	198.1	28,500	44.5	205.1	26,600
100		17.4	171.1	28,900	32.0	190.9	26,600	39.8	199.6	24,900
105					25.4	181.8	24,900	34.5	192.9	23,300
110					16.5	168.7	23,300	28.4	184.8	21,800
115								20.7	173.8	20,500
120								7.6	154.0	19,200
125										
130										
135										135
140										140
145										145
150										150

MLC165-1 S-1

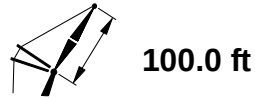
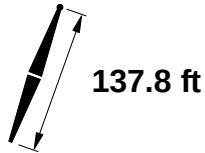
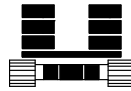
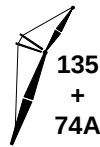
ASME B30.5

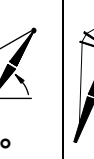


	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85	61.8	218.6	27,300 b							85
90	58.1	215.7	25,300 b							90
95	54.3	212.3	23,500							95
100	50.3	208.5	21,900							100
105	46.0	204.0	20,500	55.4	209.5	17,800				105
110	41.4	198.7	19,200	51.4	205.8	16,600				110
115	36.3	192.5	18,000	47.2	201.5	15,600				115
120	30.6	185.0	17,000	42.7	196.5	14,700	52.3	201.8	12,400	120
125	23.6	175.2	16,000	37.8	190.6	13,800	48.1	197.7	11,600	125
130	13.5	160.3	15,000	32.3	183.5	13,000	43.7	192.8	10,900	130
135				25.7	174.4	12,200	38.9	187.1	10,200	135
140				16.9	161.6	11,500	33.5	180.3	9,600	140
145							27.2	171.7	9,000	145
150							19.1	160.0	8,500	150

MLC165-1 S-1

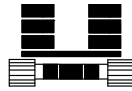
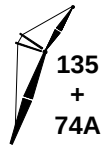
ASME B30.5



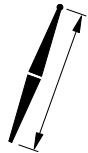
	87°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
40	75.0	240.8	66,700 c							40
45	72.0	239.3	66,300 c							45
50	69.0	237.5	64,200 b							50
55	65.9	235.5	60,900 b							55
60	62.7	233.0	55,800 b	68.7	236.4	51,400 b				60
65	59.4	230.3	50,400	65.6	234.3	46,400 b				65
70	56.0	227.1	45,800	62.4	231.8	42,100 b	66.9	234.0	39,400 b	70
75	52.5	223.5	41,900	59.1	229.0	38,500	63.8	231.7	36,000 b	75
80	48.8	219.4	38,500	55.7	225.8	35,400	60.5	229.1	33,100	80
85	44.9	214.7	35,600	52.2	222.2	32,700	57.2	226.1	30,500	85
90	40.6	209.3	33,100	48.5	218.0	30,300	53.7	222.6	28,300	90
95	36.0	203.0	30,800	44.5	213.3	28,200	50.1	218.7	26,300	95
100	30.8	195.4	28,800	40.3	207.8	26,400	46.2	214.2	24,600	100
105	24.7	185.9	26,900	35.6	201.4	24,700	42.1	209.1	23,000	105
110	16.5	172.6	25,200	30.3	193.7	23,200	37.6	203.1	21,500	110
115				24.1	184.0	21,800	32.7	196.0	20,200	115
120				15.6	170.1	20,400	26.9	187.2	19,000	120
125							19.6	175.6	17,900	125
130							7.3	154.6	16,800	130
135										135
140										140
145										145
150										150
155										155
160										160

MLC165-1 S-1

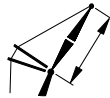
ASME B30.5



101,400 lb
+
0 lb

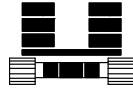
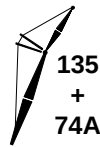


137.8 ft

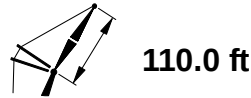
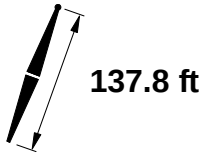


100.0 ft

	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										85
90	61.6	227.2	24,900							90
95	58.3	224.3	23,100							95
100	54.9	221.0	21,600							100
105	51.3	217.3	20,200							105
110	47.5	213.0	18,900	55.9	218.2	16,200				110
115	43.5	208.1	17,700	52.3	214.6	15,200				115
120	39.2	202.4	16,600	48.6	210.5	14,300				120
125	34.4	195.7	15,700	44.7	205.7	13,400				125
130	29.0	187.6	14,800	40.5	200.3	12,600	49.4	206.6	10,500	130
135	22.3	177.2	13,900	35.8	193.9	11,900	45.5	202.0	9,800	135
140	12.8	161.4	13,100	30.6	186.3	11,200	41.4	196.7	9,200	140
145				24.4	176.7	10,500	36.8	190.5	8,700	145
150				16.1	163.1	9,900	31.7	183.2	8,100	150
155							25.8	174.1	7,600	155
160							18.1	161.7	7,100	160



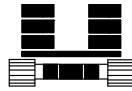
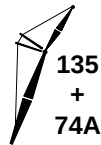
101,400 lb
+
0 lb



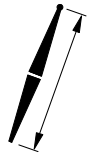
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
45	73.7	249.8	61,400 c							45
50	71.0	248.2	59,200 b							50
55	68.2	246.3	56,600 b							55
60	65.4	244.2	53,800 b	70.7	247.0	51,400 b				60
65	62.5	241.7	50,300	67.9	245.1	46,300 b				65
70	59.5	238.9	45,700	65.1	243.0	42,000				70
75	56.4	235.8	41,800	62.2	240.5	38,400	66.3	242.7	35,900 b	75
80	53.2	232.3	38,500	59.2	237.7	35,300	63.4	240.4	33,000	80
85	49.9	228.3	35,600	56.1	234.5	32,700	60.5	237.7	30,500	85
90	46.4	223.8	33,000	52.9	231.0	30,300	57.4	234.7	28,200	90
95	42.7	218.7	30,800	49.6	226.9	28,200	54.3	231.3	26,300	95
100	38.7	212.9	28,800	46.1	222.4	26,300	51.0	227.5	24,500	100
105	34.3	206.2	27,000	42.3	217.3	24,700	47.6	223.2	23,000	105
110	29.4	198.1	25,300	38.3	211.4	23,200	44.0	218.4	21,500	110
115	23.5	188.0	23,800	33.9	204.5	21,800	40.1	212.8	20,200	115
120	15.7	174.0	22,400	28.9	196.3	20,500	35.8	206.4	19,100	120
125				22.9	186.0	19,400	31.1	198.8	18,000	125
130				14.9	171.4	18,300	25.6	189.5	17,000	130
135							18.7	177.3	16,000	135
140							6.9	155.3	15,100	140
145										145
150										150
155										155
160										160
165										165
170										170

MLC165-1 S-1

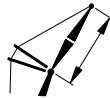
ASME B30.5



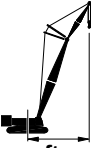
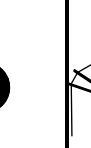
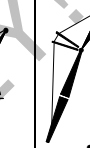
101,400 lb
+
0 lb



137.8 ft

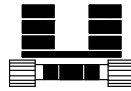
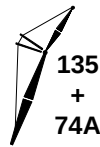


110.0 ft

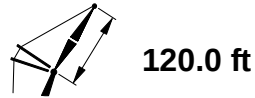
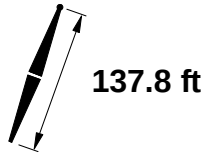
	75°			70°			65°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100	61.5	235.9	23,100							100
105	58.5	233.0	21,500							105
110	55.4	229.7	20,100							110
115	52.1	226.1	18,800							115
120	48.8	221.9	17,700	56.3	226.9	15,200				120
125	45.2	217.3	16,600	53.1	223.3	14,200				125
130	41.4	212.0	15,700	49.7	219.4	13,400				130
135	37.3	205.9	14,800	46.2	214.8	12,600				135
140	32.8	198.7	13,900	42.5	209.7	11,900	50.4	215.4	9,800	140
145	27.6	190.1	13,200	38.5	203.9	11,200	47.0	211.0	9,200	145
150	21.3	179.1	12,400	34.1	197.1	10,500	43.3	206.1	8,700	150
155	12.2	162.5	11,700	29.1	188.9	10,000	39.3	200.4	8,100	155
160				23.2	178.8	9,400	35.0	193.8	7,600	160
165				15.3	164.4	8,800	30.2	186.0	7,100	165
170							24.5	176.3	6,600	170
							17.2	163.2	6,200	170

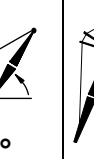
MLC165-1 S-1

ASME B30.5



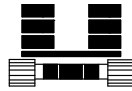
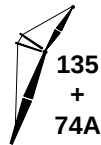
101,400 lb
+
0 lb



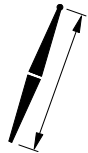
	87°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
50	72.6	258.7	54,100 b							50
55	70.1	257.0	52,100 b							55
60	67.5	255.1	50,000							60
65	64.9	252.9	47,700	69.9	255.9	46,000 b				65
70	62.2	250.4	45,300	67.3	253.9	41,700				70
75	59.5	247.6	41,600	64.7	251.7	38,100				75
80	56.7	244.5	38,200	62.0	249.2	35,000	65.8	251.5	32,600	80
85	53.8	241.0	35,300	59.3	246.3	32,400	63.2	249.1	30,100	85
90	50.8	237.2	32,800	56.5	243.2	30,000	60.4	246.4	27,900	90
95	47.6	232.8	30,500	53.5	239.7	27,900	57.7	243.4	26,000	95
100	44.3	228.0	28,500	50.5	235.8	26,100	54.8	240.1	24,200	100
105	40.8	222.5	26,700	47.3	231.4	24,400	51.8	236.3	22,600	105
110	37.0	216.3	25,100	44.0	226.6	22,900	48.7	232.2	21,200	110
115	32.8	209.2	23,600	40.5	221.0	21,500	45.4	227.5	19,900	115
120	28.1	200.7	22,300	36.6	214.8	20,300	42.0	222.3	18,800	120
125	22.5	190.1	21,000	32.4	207.5	19,100	38.3	216.4	17,700	125
130	15.1	175.3	19,900	27.6	198.8	18,100	34.2	209.5	16,700	130
135				21.9	188.0	17,100	29.7	201.5	15,800	135
140				14.2	172.7	16,200	24.5	191.8	14,900	140
145							17.9	178.9	14,100	145
150							6.6	155.8	13,300	150
155										155
160										160
165										165
170										170
175										175
180										180

MLC165-1 S-1

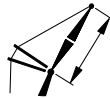
ASME B30.5



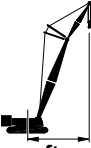
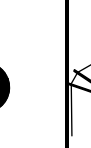
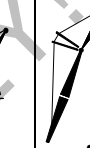
101,400 lb
+
0 lb



137.8 ft

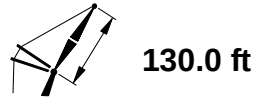
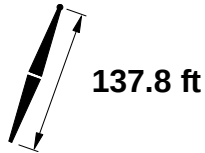
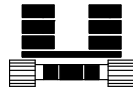
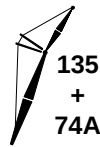


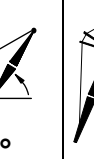
120.0 ft

	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										95
100	61.4	244.5	21,100							100
105	58.6	241.7	19,700							105
110	55.8	238.4	18,500							110
115	52.8	234.8	17,300							115
120	49.8	230.8	16,300	56.6	235.6	13,800				120
125	46.6	226.4	15,300	53.7	232.1	13,000				125
130	43.2	221.3	14,400	50.6	228.2	12,200				130
135	39.6	215.7	13,600	47.5	223.9	11,500				135
140	35.7	209.2	12,900	44.2	219.0	10,800	51.3	224.3	8,700	140
145	31.3	201.6	12,200	40.6	213.5	10,200	48.2	220.0	8,100	145
150	26.4	192.5	11,500	36.8	207.3	9,600	44.9	215.3	7,600	150
155	20.4	181.0	10,900	32.6	200.1	9,100	41.4	209.9	7,100	155
160	11.7	163.6	10,200	27.9	191.5	8,600	37.6	203.9	6,600	160
165				22.2	180.8	8,100	33.5	196.9	6,100	165
170				14.7	165.8	7,600	28.9	188.6	5,700	170
175							23.5	178.4	5,300	175
180							16.5	164.7	4,900	180

MLC165-1 S-1

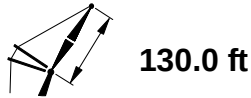
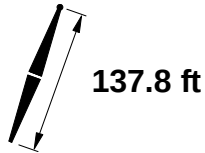
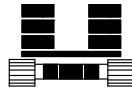
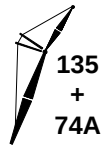
ASME B30.5



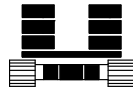
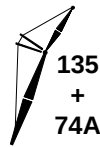
	87°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
50	74.0	269.1	44,700 b							50
55	71.7	267.6	44,000 b							55
60	69.3	265.8	43,300							60
65	67.0	263.8	42,600							65
70	64.5	261.6	41,400	69.1	264.7	41,500				70
75	62.1	259.1	39,600	66.8	262.6	37,900				75
80	59.6	256.3	37,700	64.3	260.4	34,800	67.8	262.3	32,400	80
85	57.0	253.2	35,100	61.9	257.8	32,100	65.4	260.2	29,900	85
90	54.3	249.7	32,600	59.3	255.0	29,800	62.9	257.8	27,700	90
95	51.5	246.0	30,400	56.7	251.9	27,700	60.4	255.1	25,700	95
100	48.7	241.8	28,400	54.1	248.4	25,900	57.8	252.1	24,000	100
105	45.6	237.1	26,600	51.3	244.6	24,200	55.2	248.8	22,400	105
110	42.5	232.0	24,900	48.4	240.4	22,700	52.5	245.1	21,000	110
115	39.1	226.2	23,500	45.4	235.7	21,300	49.6	241.1	19,700	115
120	35.5	219.6	22,100	42.2	230.5	20,100	46.7	236.6	18,600	120
125	31.5	212.0	20,900	38.8	224.7	19,000	43.6	231.6	17,500	125
130	27.0	203.1	19,800	35.1	218.0	17,900	40.3	226.0	16,500	130
135	21.6	192.0	18,700	31.1	210.3	16,900	36.7	219.7	15,600	135
140	14.5	176.6	17,700	26.5	201.3	16,000	32.9	212.6	14,800	140
145				21.1	189.9	15,200	28.5	204.1	14,000	145
150				13.7	173.9	14,400	23.5	193.9	13,300	150
155							17.2	180.4	12,500	155
160							6.4	156.4	11,800	160
165										165
170										170
175										175
180										180
185										185
190										190

MLC165-1 S-1

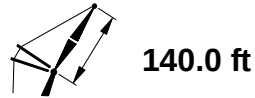
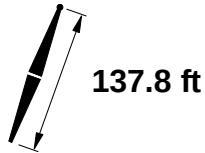
ASME B30.5

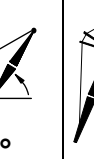


	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105	61.3	253.2	19,500							105
110	58.7	250.3	18,200							110
115	56.1	247.1	17,100							115
120	53.4	243.6	16,000							120
125	50.6	239.7	15,100	56.8	244.3	12,700				125
130	47.7	235.4	14,200	54.2	240.8	12,000				130
135	44.6	230.6	13,400	51.4	237.0	11,200				135
140	41.4	225.2	12,700	48.5	232.8	10,600				140
145	38.0	219.2	12,000	45.5	228.2	10,000	52.0	233.1	7,700	145
150	34.2	212.3	11,300	42.3	223.0	9,400	49.1	228.9	7,200	150
155	30.1	204.4	10,700	39.0	217.1	8,900	46.1	224.4	6,700	155
160	25.3	194.8	10,100	35.3	210.5	8,300	43.0	219.3	6,200	160
165	19.6	182.7	9,600	31.3	202.9	7,900	39.7	213.6	5,800	165
170	11.2	164.6	9,000	26.7	193.9	7,400	36.1	207.2	5,400	170
175				21.3	182.7	7,000	32.2	199.8	5,000	175
180				14.1	167.0	6,500	27.7	191.1	4,600	180
185							22.5	180.5	4,200	185
190							15.8	166.1	3,800	190



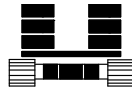
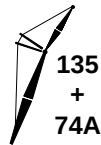
101,400 lb
+
0 lb



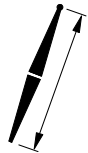
	87°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
55	73.0	278.1	41,300 b							55
60	70.9	276.5	40,600							60
65	68.7	274.6	39,800							65
70	66.5	272.6	38,400	70.7	275.3	40,700				70
75	64.2	270.3	36,900	68.5	273.5	37,600				75
80	61.9	267.7	35,400	66.3	271.4	34,500				80
85	59.6	264.9	33,900	64.0	269.1	31,800	67.2	271.1	29,500	85
90	57.2	261.8	32,400	61.7	266.5	29,500	65.0	268.9	27,300	90
95	54.7	258.5	30,100	59.4	263.7	27,400	62.7	266.4	25,400	95
100	52.2	254.8	28,100	57.0	260.6	25,600	60.4	263.7	23,600	100
105	49.5	250.7	26,300	54.5	257.2	23,900	58.0	260.7	22,100	105
110	46.8	246.2	24,700	51.9	253.4	22,400	55.6	257.5	20,700	110
115	43.9	241.3	23,200	49.3	249.3	21,000	53.0	253.9	19,400	115
120	40.9	235.8	21,900	46.5	244.8	19,800	50.4	249.9	18,300	120
125	37.6	229.7	20,700	43.6	239.8	18,700	47.7	245.6	17,200	125
130	34.1	222.7	19,500	40.6	234.3	17,600	44.9	240.8	16,200	130
135	30.3	214.8	18,500	37.3	228.1	16,700	41.9	235.5	15,300	135
140	26.0	205.5	17,500	33.8	221.1	15,800	38.7	229.6	14,500	140
145	20.8	193.9	16,600	29.9	213.1	15,000	35.3	223.0	13,700	145
150	13.9	177.9	15,700	25.5	203.6	14,200	31.6	215.4	13,000	150
155				20.3	191.7	13,400	27.5	206.6	12,300	155
160				13.2	175.1	12,700	22.7	195.9	11,700	160
165							16.6	181.9	11,000	165
170							6.1	157.0	10,400	170
175										175
180										180
185										185
190										190
195										195

MLC165-1 S-1

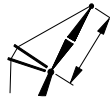
ASME B30.5



101,400 lb
+
0 lb

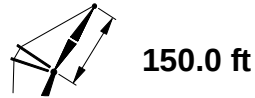
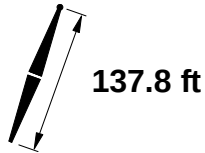
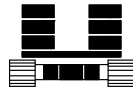
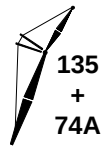


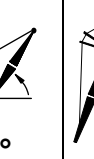
137.8 ft



140.0 ft

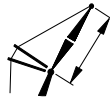
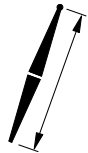
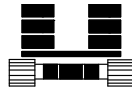
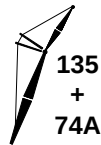
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110	61.2	261.9	17,900							110
115	58.8	259.0	16,700							115
120	56.4	255.8	15,700							120
125	53.9	252.3	14,700							125
130	51.3	248.5	13,900	57.1	252.9	11,600				130
135	48.6	244.3	13,100	54.6	249.5	10,900				135
140	45.9	239.7	12,300	52.1	245.8	10,200				140
145	42.9	234.6	11,600	49.4	241.7	9,600				145
150	39.8	228.9	11,000	46.7	237.2	9,000	52.6	241.8	6,600	150
155	36.5	222.5	10,400	43.8	232.3	8,500	50.0	237.8	6,100	155
160	32.9	215.3	9,800	40.7	226.8	8,000	47.2	233.4	5,700	160
165	29.0	207.0	9,300	37.5	220.6	7,500	44.4	228.5	5,200	165
170	24.4	197.0	8,800	34.0	213.7	7,000	41.4	223.2	4,800	170
175	18.8	184.4	8,300	30.1	205.7	6,500	38.2	217.2	4,400	175
180	10.8	165.5	7,800	25.8	196.2	6,100	34.7	210.4	4,100	180
185				20.5	184.5	5,700	31.0	202.6	3,700	185
190				13.6	168.2	5,300	26.7	193.5	3,400	190
195							21.7	182.4	3,000	195



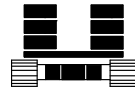
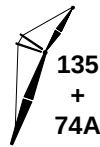
	87°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
55	74.2	288.5	38,600							55
60	72.2	287.0	37,600							60
65	70.2	285.3	36,600							65
70	68.1	283.4	35,400							70
75	66.1	281.3	34,300	70.0	284.1	37,500				75
80	63.9	278.9	33,100	68.0	282.2	34,400				80
85	61.8	276.4	31,800	65.9	280.1	31,700				85
90	59.6	273.6	30,500	63.8	277.7	29,400	66.8	279.8	27,200	90
95	57.4	270.5	29,300	61.6	275.2	27,300	64.7	277.6	25,300	95
100	55.1	267.2	28,000	59.4	272.3	25,400	62.5	275.1	23,500	100
105	52.7	263.5	26,200	57.2	269.2	23,800	60.4	272.4	22,000	105
110	50.3	259.5	24,600	54.9	265.9	22,300	58.1	269.4	20,600	110
115	47.7	255.2	23,100	52.5	262.2	21,000	55.9	266.2	19,300	115
120	45.1	250.4	21,800	50.1	258.2	19,700	53.5	262.6	18,200	120
125	42.3	245.2	20,600	47.5	253.8	18,600	51.1	258.7	17,100	125
130	39.4	239.4	19,500	44.9	249.0	17,600	48.6	254.5	16,100	130
135	36.3	233.0	18,400	42.1	243.7	16,600	46.0	249.9	15,200	135
140	32.9	225.8	17,500	39.2	237.9	15,700	43.3	244.9	14,400	140
145	29.2	217.5	16,600	36.0	231.4	14,900	40.4	239.3	13,600	145
150	25.1	207.7	15,700	32.6	224.1	14,100	37.4	233.1	12,900	150
155	20.1	195.7	15,000	28.9	215.7	13,400	34.1	226.1	12,200	155
160	13.5	179.1	14,200	24.7	205.8	12,700	30.5	218.2	11,600	160
165				19.6	193.5	12,100	26.5	209.0	11,000	165
170				12.7	176.2	11,500	21.9	197.9	10,500	170
175							16.0	183.3	9,900	175
180							5.9	157.5	9,400	180
185										185
190										190
195										195
200										200

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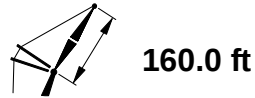
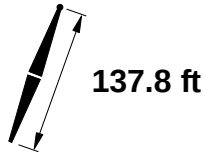
ASME B30.5

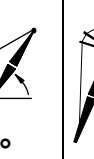


	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110										110
115	61.1	270.5	16,600							115
120	58.9	267.6	15,600							120
125	56.6	264.5	14,600							125
130	54.3	261.1	13,800							130
135	51.9	257.3	13,000	57.3	261.6	10,800				135
140	49.5	253.2	12,200	55.0	258.2	10,100				140
145	46.9	248.7	11,500	52.6	254.6	9,500				145
150	44.2	243.8	10,900	50.2	250.6	8,900				150
155	41.4	238.4	10,300	47.6	246.2	8,400				155
160	38.4	232.5	9,800	45.0	241.5	7,800	50.7	246.7	5,500	160
165	35.2	225.8	9,200	42.2	236.2	7,300	48.2	242.4	5,100	165
170	31.8	218.2	8,700	39.3	230.4	6,900	45.5	237.7	4,700	170
175	28.0	209.5	8,300	36.2	223.9	6,400	42.8	232.5	4,300	175
180	23.6	199.2	7,800	32.8	216.7	6,000	39.9	226.9	3,900	180
185	18.2	186.0	7,400	29.1	208.3	5,600	36.8	220.5	3,600	185
190	10.5	166.5	6,900	24.9	198.5	5,200	33.5	213.4	3,300	190
195				19.8	186.3	4,800	29.9	205.3	3,000	195
200				13.1	169.4	4,400				200



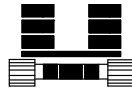
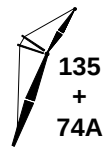
101,400 lb
+
0 lb



	87°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
60	73.3	297.5	34,200							60
65	71.5	295.9	33,300							65
70	69.6	294.1	32,500							70
75	67.6	292.2	31,600							75
80	65.7	290.0	30,600	69.4	293.0	34,100				80
85	63.7	287.6	29,600	67.5	291.0	31,400				85
90	61.7	285.1	28,600	65.5	288.8	29,100				90
95	59.6	282.2	27,500	63.5	286.4	27,000	66.3	288.6	24,900	95
100	57.5	279.2	26,400	61.5	283.8	25,200	64.4	286.3	23,200	100
105	55.4	275.9	25,400	59.5	281.0	23,500	62.4	283.8	21,700	105
110	53.2	272.3	24,300	57.4	277.9	22,000	60.3	281.0	20,300	110
115	50.9	268.4	22,900	55.2	274.6	20,700	58.3	278.1	19,000	115
120	48.6	264.1	21,600	53.0	271.0	19,400	56.1	274.8	17,800	120
125	46.1	259.5	20,300	50.7	267.0	18,300	53.9	271.3	16,800	125
130	43.6	254.5	19,200	48.4	262.8	17,300	51.7	267.6	15,800	130
135	40.9	249.0	18,200	45.9	258.1	16,300	49.4	263.4	14,900	135
140	38.1	242.9	17,200	43.4	253.1	15,400	47.0	259.0	14,100	140
145	35.1	236.2	16,400	40.7	247.5	14,600	44.5	254.1	13,300	145
150	31.9	228.7	15,500	37.9	241.4	13,900	41.8	248.7	12,600	150
155	28.3	220.0	14,700	34.8	234.6	13,200	39.1	242.9	12,000	155
160	24.3	209.9	14,000	31.6	227.0	12,500	36.2	236.4	11,300	160
165	19.4	197.4	13,300	28.0	218.2	11,900	33.0	229.1	10,700	165
170	13.0	180.2	12,700	23.9	207.9	11,300	29.5	220.9	10,200	170
175				19.0	195.2	10,700	25.7	211.3	9,700	175
180				12.3	177.3	10,100	21.2	199.8	9,200	180
185							15.5	184.7	8,700	185
190							5.7	158.0	8,200	190
195										195
200										200
205										205
210										210

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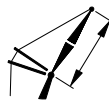
ASME B30.5



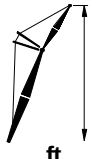
101,400 lb
+
0 lb

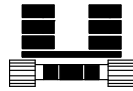
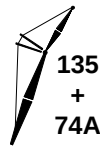


137.8 ft

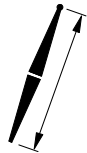


160.0 ft

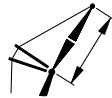
	75°			70°			
							
	ft	ft	lb	ft	lb	ft	ft
60							60
65							65
70							70
75							75
80							80
85							85
90							90
95							95
100							100
105							105
110							110
115							115
120	61.0	279.2	15,200				120
125	59.0	276.3	14,300				125
130	56.8	273.2	13,400				130
135	54.7	269.8	12,600				135
140	52.5	266.1	11,900	57.4	270.3	9,700	140
145	50.2	262.1	11,200	55.3	267.0	9,000	145
150	47.8	257.7	10,600	53.1	263.3	8,400	150
155	45.3	253.0	10,000	50.8	259.4	7,900	155
160	42.7	247.8	9,400	48.5	255.2	7,300	160
165	40.0	242.1	8,900	46.0	250.6	6,800	165
170	37.2	235.9	8,400	43.5	245.5	6,400	170
175	34.1	228.9	8,000	40.8	240.0	5,900	175
180	30.8	221.0	7,500	38.0	233.9	5,500	180
185	27.0	212.0	7,100	35.0	227.1	5,100	185
190	22.8	201.2	6,700	31.7	219.5	4,700	190
195	17.6	187.6	6,300	28.1	210.9	4,400	195
200	10.1	167.4	5,900	24.1	200.6	4,000	200
205				19.2	188.0	3,700	205
210				12.7	170.5	3,300	210



101,400 lb
+
0 lb



137.8 ft

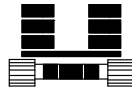
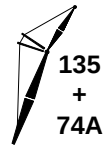


170.0 ft

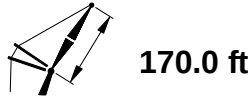
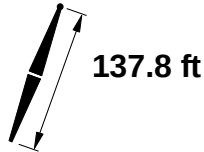
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
60	74.3	307.9	31,000							60
65	72.6	306.4	30,400							65
70	70.8	304.7	29,700							70
75	69.0	302.9	29,000							75
80	67.2	300.9	28,200	70.7	303.6	30,700				80
85	65.4	298.7	27,400	68.9	301.8	30,200				85
90	63.5	296.3	26,600	67.0	299.7	28,800				90
95	61.6	293.7	25,700	65.2	297.5	26,800	67.8	299.4	24,700	95
100	59.7	290.9	24,800	63.3	295.1	24,900	66.0	297.3	23,000	100
105	57.7	287.9	23,900	61.4	292.5	23,300	64.1	295.0	21,400	105
110	55.7	284.6	23,100	59.5	289.7	21,800	62.2	292.4	20,000	110
115	53.6	281.0	22,200	57.5	286.6	20,400	60.3	289.7	18,800	115
120	51.5	277.2	21,200	55.5	283.3	19,200	58.4	286.7	17,600	120
125	49.3	273.0	20,100	53.4	279.7	18,100	56.4	283.5	16,600	125
130	47.0	268.6	19,000	51.3	275.8	17,100	54.3	280.1	15,600	130
135	44.7	263.7	18,000	49.1	271.7	16,100	52.2	276.3	14,700	135
140	42.2	258.4	17,000	46.8	267.2	15,200	50.0	272.3	13,900	140
145	39.7	252.7	16,200	44.5	262.3	14,400	47.8	267.9	13,100	145
150	36.9	246.3	15,300	42.0	257.0	13,700	45.5	263.2	12,400	150
155	34.0	239.3	14,600	39.4	251.2	13,000	43.1	258.1	11,700	155
160	30.9	231.5	13,800	36.7	244.8	12,300	40.5	252.5	11,100	160
165	27.4	222.5	13,100	33.8	237.7	11,700	37.9	246.4	10,500	165
170	23.5	212.0	12,200	30.6	229.7	11,100	35.0	239.6	10,000	170
175	18.9	199.1	11,400	27.1	220.7	10,500	32.0	232.0	9,500	175
180	12.6	181.4	10,700	23.1	210.0	10,000	28.6	223.5	9,000	180
185				18.4	196.8	9,500	24.9	213.6	8,500	185
190				12.0	178.4	9,000	20.5	201.6	8,100	190
195							15.0	186.0	7,600	195
200							5.6	158.5	7,200	200
205										205
210										210

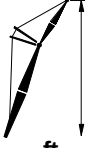
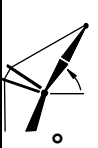
MLC165-1 S-1

ASME B30.5



101,400 lb
+
0 lb



	75°			70°			
	 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							115
120	62.9	290.5	15,000				120
125	61.0	287.9	14,000				125
130	59.0	285.0	13,200				130
135	57.0	281.8	12,400				135
140	55.0	278.5	11,600				140
145	52.9	274.8	11,000	57.6	278.9	8,600	145
150	50.8	270.9	10,300	55.6	275.6	8,000	150
155	48.6	266.7	9,700	53.5	272.1	7,500	155
160	46.3	262.1	9,200	51.4	268.2	7,000	160
165	43.9	257.1	8,700	49.2	264.1	6,500	165
170	41.4	251.7	8,200	46.9	259.6	6,000	170
175	38.8	245.7	7,700	44.6	254.7	5,600	175
180	36.0	239.2	7,300	42.1	249.4	5,200	180
185	33.0	231.9	6,900	39.5	243.6	4,800	185
190	29.8	223.7	6,400	36.8	237.3	4,400	190
195	26.2	214.3	6,000	33.9	230.2	4,000	195
200	22.1	203.2	5,600	30.8	222.3	3,700	200
205	17.1	189.1	5,200	27.3	213.3	3,400	205
210	9.8	168.2	4,900	23.3	202.7	3,100	210