

Liftcrane Luffing Jib Capacities

Luffing Jib No. 135 on Boom No. 74A
123,400 lb Crane Counterweight
45,100 lb Carbody Counterweight
360 Degree Rating

MLC165-1 SERIES 2



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.

Lower boom point must be completely removed from 167.3 ft boom length.

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.

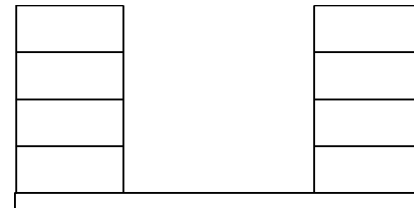


LUFFING JIB ANGLE: Luffing jib angle in degrees ($^{\circ}$) is angle between horizontal and centerline of luffing jib butt and inserts, and is an indication of operating radius. In all cases, operating radius shall govern capacity.



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, 123,400 lb crane counterweight, and two 22,550 lb carbody counterweights.



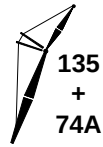
123,400 lb Crane Counterweight
8 Side Boxes

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.

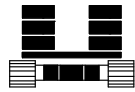
Lower Boom Point Sheave Deduct

Deduct 500 lb from capacities for boom lengths 147.6 ft thru 157.5 ft when lower boom point is equipped with outer sheave clusters.

Explanation of Symbols



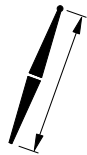
Luffing Jib No. 135
+
Boom No. 74A



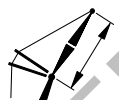
Crane Counterweight
+
Carbody Counterweight



360 Degree Rating



Boom Length

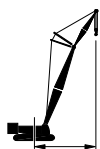


Luffing Jib Length



Boom Angle
(see page 1)

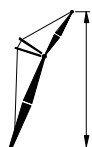
Explanation of Symbols (continued)



Operating Radius
(see page 1)



Luffing Jib Angle
(see page 1)

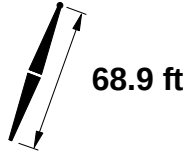
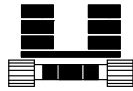
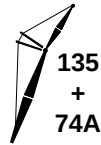


Luffing Jib Point Elevation
(see page 1)



Lifting Capacities
(see page 1)

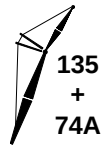
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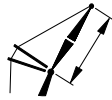
	87°			83°			80°			
ft	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
30	73.8	142.6	110,300 d							30
32	72.1	142.0	110,300 d							32
34	70.4	141.3	110,300 d							34
36	68.6	140.6	110,300 c							36
38	66.9	139.8	106,400 c							38
40	65.1	138.9	102,500 c	69.3	140.3	110,300 c				40
45	60.5	136.3	93,600 b	64.9	138.2	100,500 c				45
50	55.7	133.2	85,900 b	60.3	135.6	87,600 b	63.6	136.8	85,800 c	50
55	50.5	129.4	78,100 b	55.4	132.5	77,500 b	58.9	134.1	75,900 b	55
60	45.0	124.9	71,300	50.3	128.7	69,400 b	54.0	130.8	68,000 b	60
65	38.9	119.3	64,400	44.8	124.1	62,700	48.7	126.8	61,400 b	65
70	31.8	112.3	58,700	38.6	118.5	57,100	43.0	121.9	56,000	70
75	22.9	102.6	53,700	31.5	111.3	52,400	36.7	115.9	51,300	75
80	6.9	83.8	44,600	22.4	101.5	48,200	29.1	108.2	47,300	80
85				5.2	81.1	44,500	19.1	97.0	43,700	85
90										90
95										95
100										100
105										105

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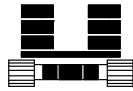
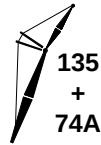
ASME B30.5



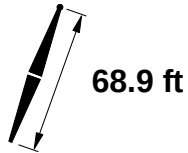
123,400 lb
+
45,100 lb



	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	65,600 b							60
65	54.8	129.9	59,300 b							65
70	49.6	126.0	54,000 b	55.5	128.4	52,100 b				70
75	44.0	121.3	49,500	50.4	124.6	47,800 b				75
80	37.8	115.5	45,700	44.8	120.0	44,000	50.9	122.5	42,400 b	80
85	30.5	108.2	42,300	38.7	114.4	40,800	45.4	118.0	39,300	85
90	21.0	97.8	39,300	31.5	107.3	37,900	39.3	112.5	36,500	90
95				22.5	97.5	35,300	32.3	105.6	34,100	95
100				5.6	77.5	32,900	23.5	96.1	31,900	100
105							8.7	78.8	29,800	105



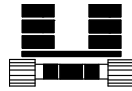
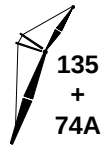
123,400 lb
+
45,100 lb



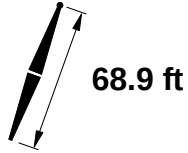
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
32	74.4	152.4	103,900 d							32
34	72.9	151.9	103,900 d							34
36	71.4	151.2	103,100 c							36
38	69.9	150.5	101,000 c							38
40	68.4	149.8	99,000 c							40
45	64.5	147.6	91,100 b	68.2	149.1	98,000 c				45
50	60.4	145.0	83,900 b	64.3	146.9	87,300 b	67.1	147.8	85,500 c	50
55	56.2	141.9	77,700 b	60.2	144.3	77,300 b	63.1	145.5	75,600 b	55
60	51.8	138.2	71,100	56.0	141.2	69,200 b	59.0	142.8	67,700 b	60
65	47.1	134.0	64,300	51.6	137.5	62,500	54.8	139.5	61,200 b	65
70	42.0	128.9	58,500	46.9	133.2	56,900	50.2	135.7	55,700	70
75	36.3	122.7	53,700	41.7	128.1	52,200	45.4	131.1	51,100	75
80	29.7	115.0	49,500	36.0	121.8	48,100	40.1	125.7	47,100	80
85	21.4	104.6	45,800	29.4	114.1	44,600	34.2	119.1	43,600	85
90	6.5	84.4	38,500	20.9	103.4	41,400	27.2	110.7	40,600	90
95				4.9	81.6	38,500	17.8	98.6	37,800	95
100										100
105										105
110										110
115										115

MLC165-1 S-2

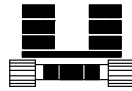
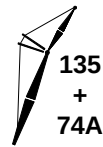
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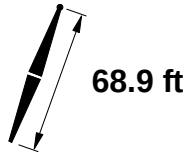
123,400 lb
+
45,100 lb



	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	59,000 b							65
70	55.5	138.6	53,700 b							70
75	51.0	134.8	49,300	56.1	137.0	47,400 b				75
80	46.2	130.4	45,400	51.6	133.4	43,700				80
85	41.0	125.2	42,100	46.9	129.1	40,500	52.1	131.3	39,000	85
90	35.2	118.8	39,100	41.8	124.0	37,700	47.4	127.0	36,200	90
95	28.5	110.8	36,500	36.1	117.8	35,100	42.3	122.0	33,800	95
100	19.7	99.6	34,100	29.5	110.0	32,900	36.7	115.9	31,600	100
105				21.0	99.4	30,800	30.1	108.4	29,700	105
110				5.3	78.0	28,900	22.0	98.1	27,900	110
115							8.2	79.6	26,200	115



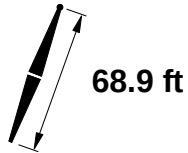
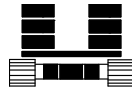
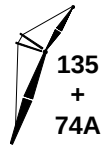
123,400 lb
+
45,100 lb



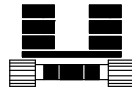
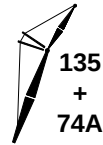
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
34	74.9	162.3	93,800 d							34
36	73.6	161.7	92,800 c							36
38	72.2	161.1	91,000 c							38
40	70.9	160.4	89,300 c							40
45	67.5	158.5	85,200 b	70.7	159.8	89,600 c				45
50	64.0	156.3	81,400 b	67.3	157.8	85,700 b				50
55	60.4	153.6	76,000 b	63.8	155.6	77,100 b	66.3	156.6	75,400 b	55
60	56.6	150.6	70,800	60.2	152.9	69,000 b	62.8	154.2	67,500 b	60
65	52.7	147.0	64,100	56.5	149.8	62,400	59.1	151.4	61,000 b	65
70	48.6	142.9	58,400	52.6	146.3	56,800	55.4	148.2	55,600	70
75	44.2	138.2	53,600	48.4	142.1	52,100	51.4	144.5	51,000	75
80	39.5	132.6	49,400	44.0	137.4	48,000	47.2	140.2	47,000	80
85	34.1	125.9	45,800	39.2	131.7	44,500	42.7	135.2	43,500	85
90	28.0	117.6	42,600	33.9	125.0	41,400	37.8	129.3	40,500	90
95	20.2	106.4	39,700	27.7	116.6	38,600	32.2	122.1	37,800	95
100	6.1	84.9	33,600	19.7	105.2	36,100	25.6	113.1	35,400	100
105				4.6	82.0	33,800	16.8	100.2	33,200	105
110										110
115										115
120										120
125										125

MLC165-1 S-2

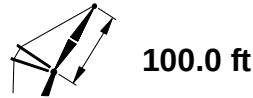
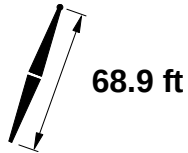
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	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70	59.8	150.4	53,500 b							70
75	56.0	147.3	49,100							75
80	52.1	143.6	45,200	56.5	145.7	43,500				80
85	47.9	139.4	41,900	52.6	142.2	40,300				85
90	43.5	134.6	39,000	48.5	138.1	37,500	53.0	140.1	36,000	90
95	38.6	128.8	36,400	44.1	133.3	35,000	48.9	136.0	33,600	95
100	33.2	121.9	34,100	39.3	127.7	32,800	44.5	131.3	31,500	100
105	26.8	113.2	32,000	33.9	120.9	30,800	39.8	125.8	29,500	105
110	18.5	101.3	30,100	27.7	112.6	28,900	34.5	119.1	27,800	110
115				19.8	101.2	27,200	28.4	111.0	26,200	115
120				5.0	78.4	25,600	20.7	100.0	24,700	120
125							7.7	80.3	23,300	125



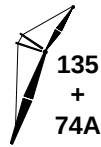
123,400 lb
+
45,100 lb



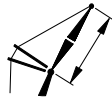
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
38	74.0	171.5	82,700 c							38
40	72.9	170.9	81,200 c							40
45	69.8	169.3	77,300 b							45
50	66.7	167.3	73,700 b	69.7	168.6	77,600 b				50
55	63.6	164.9	70,400 b	66.6	166.6	74,200 b				55
60	60.3	162.3	67,400	63.4	164.3	68,700 b	65.7	165.3	67,200 b	60
65	57.0	159.2	63,900	60.2	161.6	62,100	62.5	162.9	60,700 b	65
70	53.5	155.8	58,200	56.8	158.5	56,600	59.2	160.1	55,300	70
75	49.8	151.8	53,400	53.3	155.0	51,800	55.8	156.9	50,700	75
80	46.0	147.3	49,200	49.7	151.0	47,800	52.3	153.3	46,700	80
85	41.9	142.1	45,600	45.8	146.5	44,300	48.6	149.1	43,300	85
90	37.4	136.1	42,400	41.7	141.3	41,200	44.6	144.4	40,200	90
95	32.3	128.9	39,600	37.1	135.2	38,400	40.4	139.0	37,600	95
100	26.5	120.0	37,100	32.1	127.9	36,000	35.7	132.6	35,200	100
105	19.1	108.1	34,800	26.2	119.0	33,800	30.5	124.9	33,000	105
110	5.8	85.5	29,600	18.7	106.9	31,800	24.3	115.3	31,100	110
115				4.3	82.4	29,800	15.9	101.6	29,300	115
120										120
125										125
130										130
135										135

MLC165-1 S-2

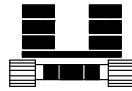
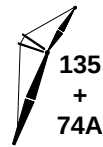
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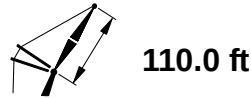
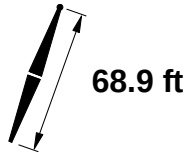
123,400 lb
+
45,100 lb

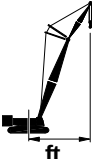
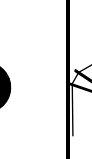


	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75	59.8	159.1	48,800							75
80	56.4	156.0	44,900							80
85	52.9	152.4	41,600	56.9	154.4	40,000				85
90	49.2	148.4	38,700	53.4	150.9	37,200				90
95	45.3	143.8	36,100	49.7	147.0	34,700				95
100	41.1	138.4	33,800	45.8	142.4	32,500	50.1	144.9	31,100	100
105	36.6	132.2	31,700	41.7	137.2	30,500	46.2	140.4	29,200	105
110	31.4	124.8	29,900	37.2	131.1	28,700	42.1	135.2	27,500	110
115	25.4	115.6	28,100	32.2	123.9	27,000	37.6	129.3	25,900	115
120	17.6	102.8	26,600	26.3	115.0	25,500	32.7	122.2	24,500	120
125				18.8	102.9	24,100	26.9	113.4	23,100	125
130				4.7	78.9	22,800	19.6	101.8	21,900	130
135							7.3	80.9	20,700	135



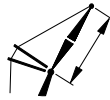
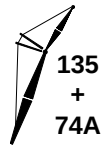
123,400 lb
+
45,100 lb



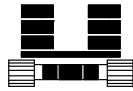
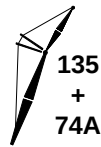
	87°			83°			80°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
40	74.5	181.4	75,500 c							40
45	71.7	179.8	72,500 b							45
50	69.0	178.1	69,700 b							50
55	66.1	176.0	67,000 b	68.8	177.4	70,000 b				55
60	63.3	173.6	64,500	66.0	175.3	67,500 b				60
65	60.3	170.9	62,100	63.1	172.9	62,000	65.2	174.0	60,700	65
70	57.3	167.9	58,200	60.2	170.2	56,500	62.3	171.5	55,200	70
75	54.1	164.5	53,300	57.1	167.2	51,800	59.3	168.7	50,600	75
80	50.8	160.7	49,200	54.0	163.8	47,700	56.2	165.6	46,700	80
85	47.4	156.3	45,600	50.7	159.9	44,200	53.0	162.0	43,200	85
90	43.7	151.4	42,400	47.2	155.5	41,200	49.7	158.0	40,200	90
95	39.8	145.8	39,600	43.6	150.6	38,400	46.2	153.5	37,500	95
100	35.6	139.4	37,100	39.6	145.0	36,000	42.5	148.4	35,200	100
105	30.8	131.7	34,800	35.4	138.5	33,800	38.4	142.5	33,000	105
110	25.3	122.3	32,800	30.6	130.8	31,800	34.0	135.7	31,100	110
115	18.2	109.8	30,900	25.0	121.3	30,000	29.1	127.6	29,300	115
120	5.5	86.0	24,700	17.8	108.5	28,400	23.1	117.4	27,700	120
125				4.1	82.7	25,600	15.2	103.0	26,200	125
130										130
135										135
140										140
145										145

MLC165-1 S-2

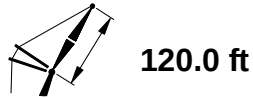
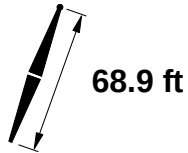
ASME B30.5



	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	62.8	170.5	48,700							75
80	59.8	167.7	44,900							80
85	56.7	164.6	41,600							85
90	53.6	161.2	38,700	57.2	163.1	37,100				90
95	50.3	157.2	36,100	54.0	159.7	34,600				95
100	46.8	152.8	33,800	50.7	155.8	32,400				100
105	43.1	147.8	31,700	47.3	151.5	30,400	51.0	153.7	29,200	105
110	39.1	142.1	29,900	43.6	146.5	28,700	47.6	149.4	27,500	110
115	34.8	135.4	28,200	39.7	140.9	27,000	44.0	144.5	25,900	115
120	29.9	127.5	26,600	35.4	134.4	25,500	40.1	139.0	24,500	120
125	24.2	117.8	25,200	30.6	126.7	24,200	35.8	132.6	23,200	125
130	16.7	104.4	23,900	25.0	117.2	22,900	31.1	125.0	21,900	130
135				17.9	104.5	21,700	25.6	115.8	20,800	135
140				4.5	79.3	20,600	18.7	103.5	19,800	140
145							7.0	81.5	18,700	145



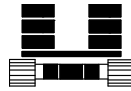
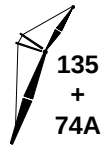
123,400 lb
+
45,100 lb



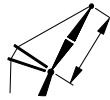
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
45	73.3	190.3	67,200 b							45
50	70.8	188.7	64,500 b							50
55	68.2	186.8	62,000 b	70.7	188.1	64,600 b				55
60	65.6	184.7	59,400	68.1	186.2	62,200 b				60
65	63.0	182.3	57,100	65.5	184.0	59,800	67.4	184.9	60,400	65
70	60.3	179.6	54,900	62.9	181.6	56,200	64.8	182.7	54,900	70
75	57.5	176.6	52,800	60.2	178.9	51,500	62.1	180.2	50,300	75
80	54.6	173.2	49,000	57.4	175.9	47,500	59.4	177.4	46,400	80
85	51.6	169.5	45,300	54.5	172.5	44,000	56.5	174.3	43,000	85
90	48.5	165.3	42,200	51.5	168.7	40,900	53.6	170.8	39,900	90
95	45.2	160.6	39,400	48.4	164.5	38,200	50.6	166.9	37,300	95
100	41.8	155.3	36,900	45.1	159.8	35,800	47.4	162.6	34,900	100
105	38.1	149.4	34,600	41.6	154.5	33,600	44.1	157.7	32,800	105
110	34.0	142.5	32,600	37.9	148.5	31,600	40.6	152.2	30,900	110
115	29.5	134.4	30,800	33.8	141.6	29,800	36.7	145.9	29,100	115
120	24.2	124.5	29,100	29.2	133.4	28,200	32.5	138.7	27,500	120
125	17.4	111.3	27,500	23.9	123.4	26,700	27.8	130.1	26,000	125
130	5.3	86.4	21,800	17.1	110.0	25,300	22.1	119.4	24,700	130
135				4.0	83.1	22,700	14.5	104.3	23,400	135
140										140
145										145
150										150
155										155

MLC165-1 S-2

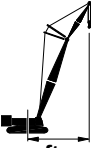
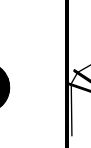
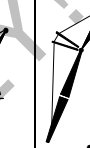
ASME B30.5

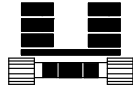
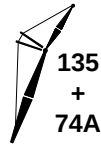


123,400 lb
+
45,100 lb

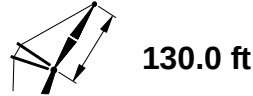
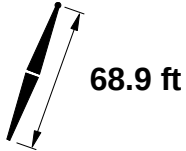


120.0 ft

	75°			70°			65°			
										
	ft	ft	ft	lb	ft	ft	lb	ft	ft	ft
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80	62.5	179.1		44,600						80
85	59.8	176.4		41,300						85
90	57.0	173.3		38,400						90
95	54.1	169.9		35,800	57.4	171.8	34,300			95
100	51.1	166.1		33,500	54.5	168.4	32,100			100
105	48.0	161.8		31,400	51.5	164.6	30,100			105
110	44.7	157.0		29,600	48.4	160.4	28,300	51.8	162.5	110
115	41.2	151.7		27,900	45.1	155.7	26,700	48.7	158.4	115
120	37.4	145.5		26,400	41.7	150.4	25,300	45.5	153.7	120
125	33.3	138.5		25,000	37.9	144.4	23,900	42.0	148.5	125
130	28.6	130.1		23,700	33.9	137.5	22,700	38.3	142.6	130
135	23.2	119.8		22,500	29.3	129.4	21,500	34.3	135.7	135
140	16.0	105.8		21,300	24.0	119.4	20,400	29.8	127.7	140
145					17.2	106.1	19,400	24.5	118.0	145
150					4.3	79.6	18,400	17.9	105.1	150
155								6.7	82.1	155



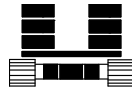
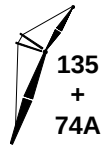
123,400 lb
+
45,100 lb



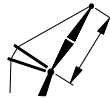
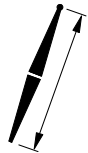
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
45	74.6	200.7	52,100 b							45
50	72.3	199.2	51,000 b							50
55	70.0	197.5	50,000 b							55
60	67.6	195.6	49,000	69.9	196.9	50,300 b				60
65	65.2	193.4	48,000	67.5	194.9	49,500				65
70	62.8	191.0	47,000	65.1	192.7	48,700	66.8	193.7	49,100	70
75	60.3	188.3	45,200	62.7	190.3	47,200	64.4	191.4	48,400	75
80	57.7	185.3	43,400	60.2	187.6	45,400	61.9	188.9	46,200	80
85	55.0	181.9	41,800	57.6	184.5	43,700	59.4	186.1	42,700	85
90	52.3	178.3	40,200	54.9	181.2	40,700	56.8	183.0	39,700	90
95	49.5	174.2	38,700	52.2	177.5	38,000	54.1	179.5	37,100	95
100	46.5	169.7	36,700	49.3	173.4	35,600	51.4	175.7	34,700	100
105	43.4	164.7	34,500	46.4	168.9	33,400	48.5	171.5	32,600	105
110	40.1	159.1	32,500	43.2	163.9	31,400	45.5	166.8	30,700	110
115	36.5	152.7	30,600	39.9	158.2	29,700	42.3	161.6	28,900	115
120	32.6	145.5	29,000	36.3	151.9	28,000	38.9	155.8	27,300	120
125	28.3	137.0	27,400	32.4	144.5	26,600	35.3	149.2	25,900	125
130	23.2	126.6	26,000	28.1	136.0	25,200	31.2	141.6	24,600	130
135	16.7	112.8	24,600	23.0	125.5	23,900	26.7	132.5	23,300	135
140	5.1	86.9	19,500	16.4	111.5	22,700	21.3	121.3	22,200	140
145				3.8	83.4	20,400	14.0	105.5	21,100	145
150										150
155										155
160										160
165										165

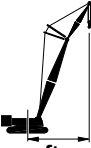
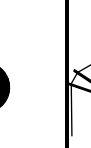
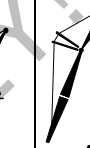
MLC165-1 S-2

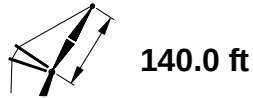
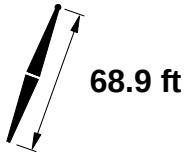
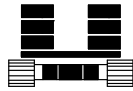
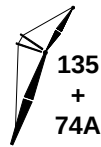
ASME B30.5



123,400 lb
+
45,100 lb



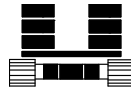
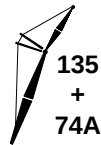
	75°			70°			65°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85	62.4	187.8	41,000							85
90	59.8	185.1	38,100							90
95	57.2	182.0	35,600							95
100	54.6	178.6	33,300	57.6	180.4	31,900				100
105	51.8	174.9	31,200	55.0	177.1	29,900				105
110	49.0	170.7	29,400	52.2	173.4	28,100				110
115	46.0	166.2	27,700	49.4	169.3	26,500	52.5	171.3	25,300	115
120	42.8	161.0	26,200	46.4	164.8	25,000	49.6	167.3	23,900	120
125	39.5	155.3	24,800	43.3	159.8	23,700	46.7	162.8	22,600	125
130	35.9	148.9	23,500	40.0	154.1	22,500	43.6	157.8	21,400	130
135	31.9	141.4	22,300	36.4	147.8	21,300	40.3	152.2	20,300	135
140	27.5	132.6	21,200	32.5	140.5	20,300	36.7	145.9	19,300	140
145	22.2	121.9	20,200	28.1	131.9	19,300	32.9	138.8	18,400	145
150	15.4	107.2	19,200	23.0	121.5	18,300	28.6	130.3	17,500	150
155				16.5	107.5	17,500	23.5	120.1	16,700	155
160				4.1	80.0	16,600	17.2	106.6	15,900	160
165							6.4	82.7	15,100	165



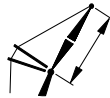
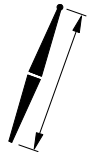
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
50	73.6	209.7	47,800 b							50
55	71.5	208.1	46,900 b							55
60	69.3	206.3	46,000							60
65	67.1	204.3	45,100	69.2	205.7	46,200				65
70	64.9	202.1	43,200	67.0	203.7	45,100				70
75	62.6	199.6	41,400	64.8	201.4	43,300	66.4	202.4	44,400	75
80	60.2	196.9	39,800	62.5	199.0	41,600	64.1	200.1	42,800	80
85	57.9	193.9	38,200	60.1	196.2	40,000	61.8	197.5	41,100	85
90	55.4	190.6	36,600	57.8	193.2	38,400	59.5	194.7	39,500	90
95	52.9	187.0	35,200	55.3	189.9	36,800	57.0	191.6	36,800	95
100	50.3	183.1	33,800	52.8	186.3	35,300	54.6	188.2	34,400	100
105	47.6	178.7	32,400	50.2	182.3	33,100	52.0	184.5	32,300	105
110	44.7	173.9	31,100	47.4	177.9	31,200	49.4	180.4	30,400	110
115	41.7	168.6	29,900	44.6	173.1	29,400	46.6	175.9	28,700	115
120	38.6	162.6	28,700	41.6	167.7	27,800	43.7	170.9	27,100	120
125	35.1	156.0	27,200	38.4	161.8	26,300	40.7	165.4	25,600	125
130	31.4	148.3	25,800	35.0	155.1	25,000	37.4	159.3	24,300	130
135	27.2	139.4	24,500	31.2	147.4	23,700	33.9	152.3	23,100	135
140	22.3	128.6	23,300	27.0	138.4	22,500	30.1	144.3	21,900	140
145	16.1	114.3	21,700	22.1	127.5	21,400	25.7	134.8	20,900	145
150	4.9	87.3	17,300	15.8	112.9	20,400	20.5	123.1	19,900	150
155				3.7	83.8	18,100	13.4	106.7	18,900	155
160										160
165										165
170										170
175										175

MLC165-1 S-2

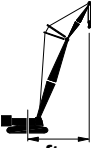
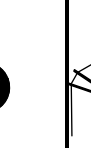
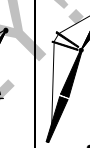
ASME B30.5

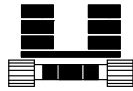
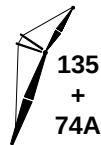


123,400 lb
+
45,100 lb

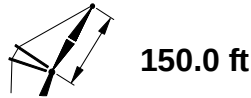
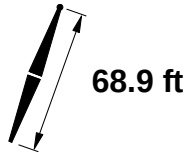


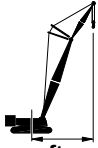
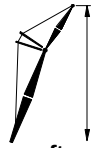
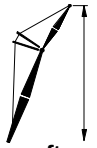
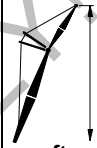
140.0 ft

	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	37,800							90
95	59.8	193.7	35,300							95
100	57.4	190.7	33,000							100
105	55.0	187.3	30,900	57.8	189.1	29,600				105
110	52.4	183.7	29,100	55.3	185.8	27,800				110
115	49.8	179.6	27,400	52.8	182.2	26,200				115
120	47.1	175.2	25,900	50.2	178.2	24,700				120
125	44.2	170.3	24,500	47.5	173.8	23,400	50.4	176.1	22,300	125
130	41.2	164.9	23,200	44.6	169.0	22,200	47.7	171.8	21,100	130
135	38.0	158.8	22,000	41.6	163.7	21,000	44.9	167.0	20,000	135
140	34.5	152.0	20,900	38.4	157.7	20,000	41.9	161.7	19,000	140
145	30.7	144.2	19,900	35.0	151.0	19,000	38.8	155.8	18,100	145
150	26.5	135.0	19,000	31.3	143.3	18,100	35.4	149.2	17,200	150
155	21.4	123.8	18,100	27.1	134.4	17,200	31.6	141.6	16,400	155
160	14.8	108.5	17,200	22.2	123.5	16,400	27.5	132.8	15,600	160
165				15.9	109.0	15,600	22.7	122.1	14,900	165
170				4.0	80.4	14,900	16.6	108.1	14,200	170
175							6.2	83.3	13,500	175



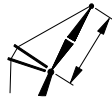
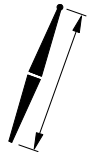
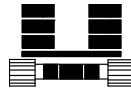
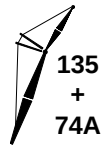
123,400 lb
+
45,100 lb



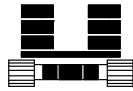
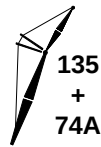
	 87°			 83°			 80°			
 ft	 °	 ft	 lb	 °	 ft	 lb	 °	 ft	 lb	 ft
50	74.7	220.1	44,800 b							50
55	72.8	218.6	43,900 b							55
60	70.7	217.0	43,100							60
65	68.7	215.1	41,600	70.6	216.3	43,100				65
70	66.6	213.1	39,900	68.6	214.5	41,600				70
75	64.5	210.8	38,200	66.5	212.4	40,000				75
80	62.4	208.3	36,700	64.4	210.1	38,300	65.9	211.1	39,400	80
85	60.2	205.6	35,100	62.3	207.6	36,800	63.8	208.8	37,800	85
90	58.0	202.6	33,600	60.1	204.9	35,200	61.7	206.2	36,300	90
95	55.7	199.3	32,200	57.9	201.9	33,700	59.5	203.4	34,800	95
100	53.4	195.8	30,800	55.6	198.6	32,400	57.2	200.3	33,400	100
105	51.0	191.9	29,500	53.3	195.0	30,900	54.9	196.9	32,000	105
110	48.5	187.6	28,200	50.8	191.1	29,700	52.6	193.3	30,300	110
115	45.8	183.0	27,000	48.3	186.9	28,400	50.1	189.3	28,600	115
120	43.1	177.9	25,900	45.7	182.2	27,200	47.6	184.9	27,000	120
125	40.3	172.3	24,800	43.0	177.1	26,100	45.0	180.1	25,600	125
130	37.2	166.1	23,800	40.1	171.5	24,900	42.2	174.9	24,200	130
135	33.9	159.1	22,800	37.1	165.2	23,600	39.3	169.1	23,000	135
140	30.3	151.1	21,900	33.8	158.2	22,500	36.1	162.6	21,900	140
145	26.3	141.8	21,100	30.1	150.1	21,400	32.7	155.3	20,800	145
150	21.6	130.5	20,300	26.1	140.8	20,400	29.0	146.9	19,800	150
155	15.6	115.7	19,500	21.3	129.4	19,500	24.8	137.1	18,900	155
160	4.7	87.7	15,500	15.3	114.3	18,600	19.8	124.9	18,100	160
165				3.5	84.1	16,300	13.0	107.9	17,200	165
170										170
175										175
180										180
185										185

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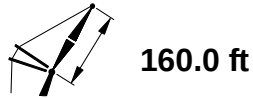
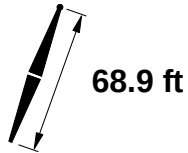
ASME B30.5



	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	62.0	205.2	35,100							95
100	59.9	202.4	32,900							100
105	57.6	199.3	30,800							105
110	55.3	196.0	29,000	57.9	197.8	27,700				110
115	53.0	192.4	27,300	55.6	194.5	26,100				115
120	50.5	188.5	25,800	53.3	190.9	24,600				120
125	48.0	184.2	24,400	50.9	187.0	23,300				125
130	45.4	179.5	23,100	48.4	182.8	22,100	51.1	184.9	21,000	130
135	42.6	174.3	22,000	45.8	178.1	20,900	48.6	180.7	19,900	135
140	39.7	168.6	20,900	43.0	173.0	19,900	46.0	176.1	18,900	140
145	36.7	162.2	19,900	40.1	167.4	18,900	43.3	171.0	18,000	145
150	33.3	155.1	18,900	37.1	161.1	18,000	40.4	165.5	17,100	150
155	29.7	146.9	18,000	33.8	154.1	17,200	37.4	159.3	16,300	155
160	25.5	137.4	17,200	30.2	146.1	16,400	34.1	152.3	15,500	160
165	20.7	125.6	16,400	26.1	136.7	15,600	30.5	144.4	14,800	165
170	14.3	109.8	15,700	21.4	125.4	14,900	26.6	135.2	14,200	170
175				15.3	110.3	14,200	21.9	124.1	13,500	175
180				3.8	80.7	13,600	16.0	109.5	12,900	180
185							6.0	83.8	12,300	185



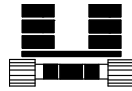
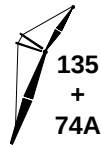
123,400 lb
+
45,100 lb



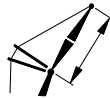
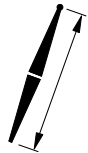
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
55	73.9	229.1	40,900 b							55
60	72.0	227.5	39,800							60
65	70.1	225.8	38,100							65
70	68.2	223.9	36,500	70.0	225.2	38,000				70
75	66.2	221.8	34,900	68.1	223.3	36,500				75
80	64.3	219.5	33,300	66.1	221.1	34,900	67.5	222.0	35,800	80
85	62.3	217.0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

MLC165-1 S-2

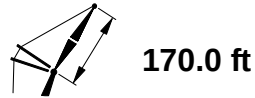
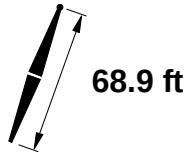
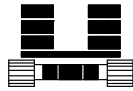
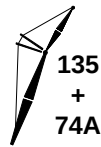
ASME B30.5



123,400 lb
+
45,100 lb



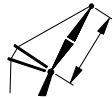
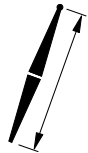
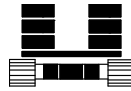
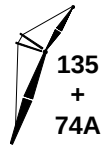
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100	61.9	213.8	31,400							100
105	59.9	211.0	30,100							105
110	57.8	208.0	28,700							110
115	55.6	204.7	27,000							115
120	53.4	201.2	25,500	55.9	203.2	24,300				120
125	51.2	197.3	24,100	53.7	199.7	23,000				125
130	48.8	193.1	22,900	51.5	195.8	21,800				130
135	46.4	188.5	21,700	49.1	191.7	20,600	51.7	193.7	19,600	135
140	43.9	183.6	20,600	46.7	187.2	19,600	49.4	189.6	18,600	140
145	41.2	178.1	19,600	44.2	182.3	18,600	47.0	185.1	17,700	145
150	38.4	172.1	18,700	41.6	176.9	17,700	44.5	180.3	16,800	150
155	35.5	165.5	17,800	38.8	171.0	16,900	41.9	174.9	16,000	155
160	32.2	158.0	17,000	35.9	164.4	16,100	39.1	169.1	15,200	160
165	28.7	149.5	16,200	32.7	157.1	15,400	36.2	162.6	14,500	165
170	24.7	139.6	15,500	29.2	148.7	14,700	33.0	155.3	13,900	170
175	20.0	127.4	14,800	25.3	139.0	14,000	29.6	147.1	13,200	175
180	13.9	111.0	14,100	20.7	127.2	13,400	25.7	137.6	12,600	180
185				14.8	111.6	12,800	21.2	126.0	12,100	185
190				3.7	81.0	12,100	15.5	110.9	11,500	190
195							5.8	84.3	11,000	195



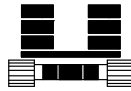
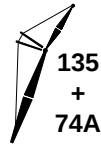
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
55	74.8	239.5	38,000 b							55
60	73.1	238.0	36,700							60
65	71.3	236.4	35,200							65
70	69.5	234.6	33,600							70
75	67.7	232.7	32,100	69.4	234.0	33,500				75
80	65.9	230.5	30,600	67.6	232.0	32,100				80
85	64.0	228.2	29,300	65.8	229.9	30,700	67.1	230.8	31,500	85
90	62.1	225.7	27,900	63.9	227.5	29,200	65.3	228.6	30,100	90
95	60.2	222.9	26,600	62.0	225.0	27,900	63.4	226.1	28,800	95
100	58.2	219.9	25,300	60.1	222.2	26,600	61.5	223.5	27,500	100
105	56.2	216.7	24,000	58.2	219.2	25,400	59.6	220.7	26,300	105
110	54.2	213.2	22,900	56.1	216.0	24,100	57.6	217.7	25,000	110
115	52.1	209.5	21,700	54.1	212.5	22,900	55.6	214.4	23,800	115
120	49.9	205.4	20,600	52.0	208.7	21,800	53.5	210.8	22,600	120
125	47.7	201.1	19,600	49.8	204.7	20,700	51.4	206.9	21,600	125
130	45.3	196.3	18,700	47.6	200.3	19,700	49.2	202.8	20,500	130
135	42.9	191.2	17,700	45.2	195.5	18,700	46.9	198.3	19,500	135
140	40.4	185.5	16,800	42.8	190.3	17,800	44.5	193.4	18,500	140
145	37.7	179.4	15,900	40.3	184.7	16,900	42.1	188.1	17,600	145
150	34.9	172.6	15,200	37.6	178.5	16,100	39.5	182.3	16,700	150
155	31.8	165.0	14,200	34.7	171.7	15,300	36.8	175.9	15,800	155
160	28.4	156.3	13,200	31.7	164.0	14,200	33.9	168.9	15,000	160
165	24.7	146.3	12,400	28.3	155.3	13,300	30.7	161.0	14,000	165
170	20.3	134.2	11,600	24.5	145.3	12,400	27.2	151.9	13,000	170
175	14.6	118.3	10,800	20.0	133.0	11,600	23.3	141.3	12,200	175
180	4.4	88.5	10,200	14.3	116.9	10,800	18.6	128.3	11,400	180
185				3.3	84.7	10,300	12.2	110.1	10,600	185
190										190
195										195
200										200
205										205

MLC165-1 S-2

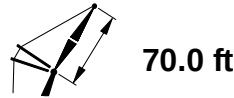
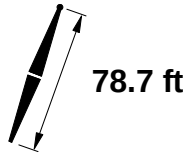
ASME B30.5



	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	27,500							105
110	59.9	219.7	26,300							110
115	57.9	216.7	25,100							115
120	55.9	213.4	23,900							120
125	53.8	209.9	22,800	56.2	211.9	22,800				125
130	51.7	206.1	21,800	54.1	208.4	21,500				130
135	49.5	202.0	20,700	52.0	204.6	20,400				135
140	47.3	197.6	19,700	49.8	200.6	19,400	52.2	202.5	18,400	140
145	44.9	192.7	18,700	47.6	196.2	18,400	50.0	198.5	17,400	145
150	42.5	187.5	17,800	45.3	191.4	17,500	47.8	194.1	16,600	150
155	39.9	181.8	16,900	42.8	186.3	16,700	45.5	189.4	15,800	155
160	37.2	175.5	16,000	40.3	180.6	15,900	43.1	184.3	15,000	160
165	34.4	168.6	15,200	37.6	174.4	15,100	40.5	178.7	14,300	165
170	31.3	160.9	14,200	34.8	167.6	14,500	37.9	172.6	13,700	170
175	27.8	152.0	13,300	31.7	160.0	13,800	35.0	165.8	13,000	175
180	24.0	141.7	12,300	28.3	151.3	13,200	32.0	158.3	12,400	180
185	19.4	129.2	11,600	24.5	141.2	12,500	28.7	149.7	11,900	185
190	13.5	112.2	10,800	20.1	129.0	11,700	24.9	139.8	11,300	190
195				14.4	112.9	10,900	20.6	127.9	10,800	195
200				3.6	81.3	10,300	15.0	112.3	10,300	200
205							5.6	84.8	9,800	205



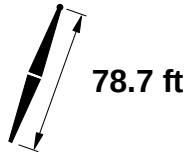
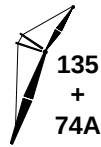
123,400 lb
+
45,100 lb



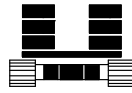
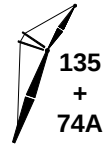
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
30	74.3	152.6	110,100 d							30
32	72.6	152.0	110,100 d							32
34	70.8	151.3	110,100 d							34
36	69.1	150.6	110,100 c							36
38	67.3	149.8	107,400 c							38
40	65.6	148.9	103,500 c	70.4	150.5	110,300 d				40
45	61.0	146.4	95,000 b	66.0	148.5	100,000 c				45
50	56.2	143.4	85,500 b	61.4	146.0	87,100 b	65.1	147.4	85,100 c	50
55	51.1	139.7	77,800 b	56.6	143.0	77,100 b	60.5	144.8	75,300 b	55
60	45.6	135.2	71,200	51.6	139.4	69,100 b	55.7	141.7	67,400 b	60
65	39.6	129.8	64,400	46.1	135.0	62,400	50.6	137.9	60,900 b	65
70	32.6	122.9	58,600	40.1	129.7	56,900	45.1	133.4	55,500	70
75	23.9	113.6	53,700	33.3	123.0	52,100	38.9	127.8	50,900	75
80	9.8	97.1	48,900	24.9	114.0	48,000	31.9	120.8	46,900	80
85				11.8	98.9	44,400	23.0	111.2	43,400	85
90							7.2	92.6	40,200	90
95										95
100										100
105										105

MLC165-1 S-2

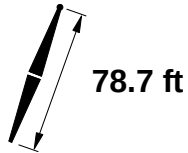
ASME B30.5



	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	64,700 b							60
65	57.3	141.1	58,500 b							65
70	52.3	137.6	53,300 b							70
75	46.9	133.3	48,800	53.8	136.4	46,800 b				75
80	41.1	128.1	45,000	48.6	132.4	43,100 b				80
85	34.4	121.7	41,700	42.9	127.6	39,900	50.0	130.7	38,200 b	85
90	26.2	113.1	38,700	36.5	121.5	37,100	44.4	126.1	35,500	90
95	14.4	99.6	36,100	28.9	113.7	34,600	38.2	120.4	33,200	95
100				18.7	102.4	32,400	31.0	113.1	31,000	100
105							21.7	103.0	29,100	105



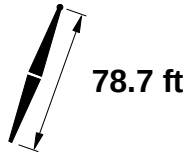
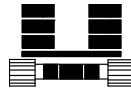
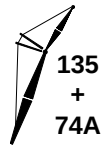
123,400 lb
+
45,100 lb



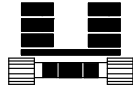
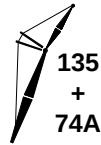
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
32	74.8	162.4	100,600 d							32
34	73.3	161.8	100,500 d							34
36	71.8	161.2	100,500 c							36
38	70.3	160.5	100,500 c							38
40	68.8	159.8	98,500 c							40
45	64.9	157.6	92,200 b	69.1	159.3	99,700 c				45
50	60.8	155.1	85,300 b	65.2	157.2	86,900 b				50
55	56.7	152.0	78,000 b	61.2	154.7	76,900 b	64.5	156.1	75,000 b	55
60	52.3	148.5	71,100	57.1	151.7	68,800 b	60.5	153.4	67,100 b	60
65	47.6	144.3	64,200	52.7	148.2	62,200	56.2	150.4	60,700 b	65
70	42.5	139.3	58,500	48.0	144.0	56,700	51.8	146.7	55,300	70
75	36.9	133.2	53,600	43.0	139.1	51,900	47.1	142.5	50,700	75
80	30.4	125.7	49,400	37.5	133.2	47,900	42.0	137.4	46,700	80
85	22.4	115.7	45,800	31.1	125.9	44,300	36.3	131.2	43,300	85
90	9.2	98.0	41,900	23.2	116.1	41,200	29.8	123.6	40,200	90
95				11.1	99.9	38,400	21.5	113.1	37,500	95
100							6.7	93.2	35,000	100
105										105
110										110
115										115

MLC165-1 S-2

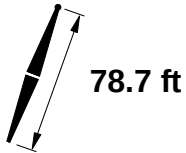
ASME B30.5



	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	58,100 b							65
70	57.7	149.8	52,900 b							70
75	53.3	146.3	48,500							75
80	48.7	142.3	44,700	54.6	145.2	42,800 b				80
85	43.8	137.5	41,400	50.1	141.3	39,600				85
90	38.3	131.7	38,500	45.3	136.8	36,800	51.3	139.5	35,200	90
95	32.1	124.7	36,000	40.0	131.3	34,400	46.5	135.2	32,800	95
100	24.5	115.4	33,600	34.0	124.7	32,200	41.4	130.0	30,700	100
105	13.5	100.8	31,500	27.0	116.2	30,200	35.6	123.7	28,800	105
110				17.5	104.0	28,300	28.9	115.8	27,100	110
115							20.3	104.9	25,500	115



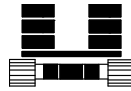
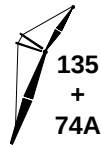
123,400 lb
+
45,100 lb



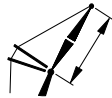
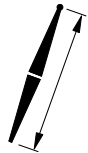
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
36	73.9	171.7	90,900 d							36
38	72.6	171.1	90,400 c							38
40	71.2	170.4	88,800 c							40
45	67.8	168.6	84,800 b							45
50	64.3	166.3	81,100 b	68.1	168.1	85,900 b				50
55	60.8	163.7	77,300 b	64.7	165.9	76,700 b	67.5	167.0	74,800 b	55
60	57.0	160.7	70,900	61.1	163.4	68,600 b	64.0	164.7	66,900 b	60
65	53.2	157.2	64,100	57.4	160.4	62,000	60.4	162.1	60,500 b	65
70	49.1	153.2	58,400	53.5	156.9	56,500	56.7	159.1	55,100	70
75	44.7	148.5	53,600	49.5	153.0	51,800	52.8	155.5	50,500	75
80	40.0	143.0	49,400	45.1	148.3	47,800	48.7	151.4	46,600	80
85	34.7	136.5	45,800	40.4	142.9	44,300	44.3	146.7	43,100	85
90	28.7	128.4	42,600	35.2	136.5	41,200	39.5	141.1	40,100	90
95	21.1	117.6	39,700	29.3	128.6	38,400	34.2	134.4	37,500	95
100	8.7	98.8	36,400	21.9	118.1	36,000	28.0	126.1	35,100	100
105				10.4	100.9	33,700	20.2	115.0	32,900	105
110							6.3	93.7	30,900	110
115										115
120										120
125										125

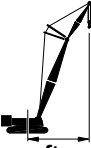
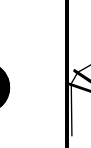
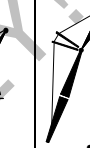
MLC165-1 S-2

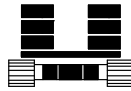
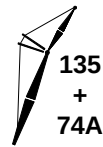
ASME B30.5



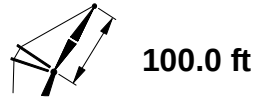
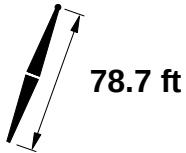
123,400 lb
+
45,100 lb



	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	52,700 b							70
75	57.9	158.4	48,300 b							75
80	54.1	155.1	44,600							80
85	50.1	151.2	41,300	55.3	153.9	39,400				85
90	45.8	146.7	38,400	51.3	150.1	36,700				90
95	41.1	141.4	35,800	47.1	145.8	34,200	52.3	148.3	32,600	95
100	36.0	135.1	33,500	42.6	140.8	32,000	48.2	144.2	30,500	100
105	30.2	127.4	31,500	37.6	134.8	30,100	43.7	139.3	28,700	105
110	23.1	117.5	29,600	32.0	127.7	28,300	38.9	133.7	27,000	110
115	12.7	102.0	27,900	25.4	118.5	26,700	33.5	126.8	25,400	115
120				16.5	105.5	25,100	27.2	118.3	24,000	120
125							19.1	106.6	22,700	125



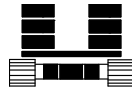
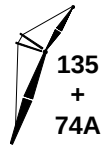
123,400 lb
+
45,100 lb



	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	73,600 b	70.4	178.8	77,800 b				50
55	63.9	175.0	70,400 b	67.4	176.9	74,500 b				55
60	60.7	172.4	67,300	64.2	174.6	68,400 b	66.8	175.7	66,600 b	60
65	57.3	169.4	63,900	61.0	172.0	61,800	63.6	173.4	60,200 b	65
70	53.9	166.0	58,200	57.7	169.1	56,300	60.4	170.8	54,800	70
75	50.2	162.1	53,400	54.2	165.7	51,600	57.0	167.7	50,200	75
80	46.4	157.6	49,200	50.6	161.8	47,500	53.5	164.3	46,300	80
85	42.3	152.5	45,600	46.8	157.4	44,000	49.9	160.3	42,900	85
90	37.8	146.6	42,400	42.7	152.4	41,000	46.0	155.8	39,900	90
95	32.9	139.5	39,600	38.3	146.5	38,200	41.9	150.6	37,200	95
100	27.2	130.9	37,000	33.4	139.6	35,800	37.4	144.6	34,800	100
105	20.0	119.4	34,800	27.7	131.1	33,600	32.4	137.4	32,700	105
110	8.2	99.5	31,900	20.8	120.0	31,600	26.6	128.6	30,800	110
115				9.9	101.8	29,700	19.2	116.7	29,000	115
120							6.0	94.3	27,300	120
125										125
130										130
135										135

MLC165-1 S-2

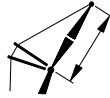
ASME B30.5



123,400 lb
+
45,100 lb

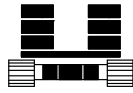
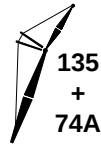


78.7 ft

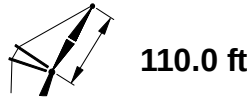
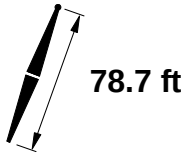


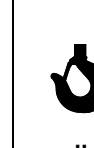
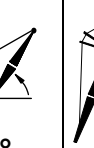
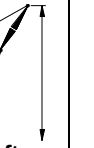
100.0 ft

	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	61.5	170.0	48,000							75
80	58.1	167.1	44,200							80
85	54.7	163.8	41,000							85
90	51.1	160.0	38,100	55.7	162.6	36,300				90
95	47.3	155.7	35,500	52.2	158.9	33,900				95
100	43.3	150.7	33,300	48.5	154.8	31,700				100
105	38.9	145.0	31,200	44.5	150.0	29,800	49.4	153.1	28,300	105
110	34.1	138.3	29,400	40.3	144.6	28,000	45.6	148.5	26,600	110
115	28.6	130.1	27,700	35.6	138.2	26,400	41.4	143.2	25,100	115
120	21.9	119.5	26,100	30.4	130.4	24,900	36.8	137.1	23,700	120
125	12.1	103.1	24,700	24.1	120.7	23,600	31.8	129.7	22,400	125
130				15.6	106.9	22,300	25.8	120.6	21,200	130
135							18.1	108.3	20,100	135



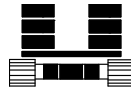
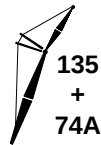
123,400 lb
+
45,100 lb



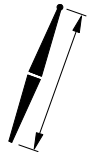
	87°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
40	74.7	191.3	74,800 c							40
45	72.0	189.8	72,000 b							45
50	69.3	188.1	69,300 b							50
55	66.4	186.0	66,700 b	69.5	187.6	70,000 b				55
60	63.6	183.7	64,300	66.7	185.6	67,500 b				60
65	60.6	181.1	61,900	63.8	183.3	61,700	66.2	184.5	60,100 b	65
70	57.6	178.1	58,100	60.9	180.7	56,200	63.3	182.1	54,700	70
75	54.4	174.7	53,300	57.9	177.7	51,500	60.3	179.4	50,200	75
80	51.2	170.9	49,100	54.7	174.4	47,500	57.3	176.4	46,200	80
85	47.7	166.6	45,500	51.5	170.6	44,000	54.1	173.0	42,800	85
90	44.1	161.8	42,400	48.1	166.4	40,900	50.9	169.2	39,800	90
95	40.2	156.3	39,600	44.5	161.6	38,200	47.4	164.8	37,200	95
100	36.0	149.9	37,100	40.6	156.2	35,800	43.8	159.9	34,800	100
105	31.3	142.4	34,800	36.4	149.9	33,600	39.9	154.3	32,700	105
110	25.9	133.2	32,800	31.8	142.5	31,700	35.6	147.9	30,800	110
115	19.1	121.1	30,900	26.4	133.5	29,900	30.8	140.2	29,100	115
120	7.8	100.2	27,300	19.8	121.8	28,200	25.3	130.9	27,500	120
125				9.4	102.6	26,700	18.3	118.3	26,000	125
130							5.7	94.8	24,600	130
135										135
140										140
145										145

MLC165-1 S-2

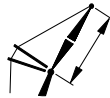
ASME B30.5



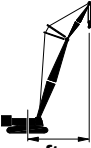
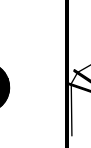
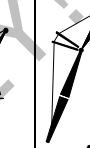
123,400 lb
+
45,100 lb

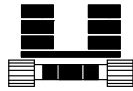
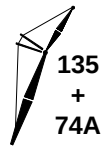


78.7 ft

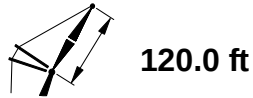
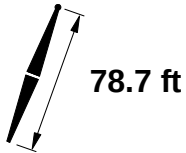


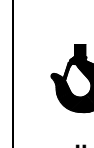
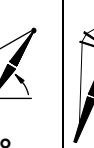
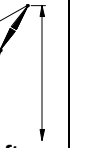
110.0 ft

	75°			70°			65°			
										
	ft	ft	ft	lb	ft	ft	lb	ft	ft	lb
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80	61.3	178.7		44,200						80
85	58.3	175.8		40,900						85
90	55.2	172.5		38,000						90
95	52.0	168.8		35,500	56.1	171.3	33,800			95
100	48.6	164.6		33,200	52.9	167.7	31,700			100
105	45.0	160.0		31,200	49.6	163.7	29,700			105
110	41.2	154.6		29,400	46.1	159.2	28,000	50.5	161.9	110
115	37.1	148.5		27,700	42.4	154.0	26,400	47.0	157.6	115
120	32.5	141.3		26,200	38.3	148.1	24,900	43.3	152.6	120
125	27.3	132.5		24,800	33.9	141.3	23,600	39.4	146.9	125
130	20.9	121.3		23,500	28.9	133.1	22,400	35.1	140.3	130
135	11.5	104.1		22,300	22.9	122.8	21,200	30.2	132.5	135
140					14.9	108.2	20,100	24.6	122.9	140
145								17.3	109.8	145



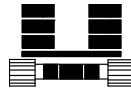
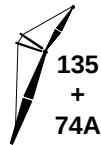
123,400 lb
+
45,100 lb



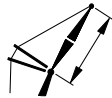
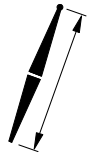
	87°			83°			80°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
45	73.6	200.3	66,600 b							45
50	71.1	198.7	64,100 b							50
55	68.5	196.9	61,500 b							55
60	65.9	194.8	59,200	68.7	196.4	62,100 b				60
65	63.3	192.4	57,000	66.2	194.3	59,900				65
70	60.6	189.7	54,800	63.5	192.0	55,900	65.7	193.2	54,400	70
75	57.8	186.7	52,700	60.8	189.3	51,200	63.0	190.8	49,900	75
80	54.9	183.4	48,900	58.0	186.4	47,200	60.3	188.1	46,000	80
85	51.9	179.7	45,300	55.2	183.1	43,700	57.5	185.1	42,500	85
90	48.8	175.6	42,200	52.2	179.4	40,700	54.6	181.7	39,600	90
95	45.6	170.9	39,400	49.1	175.3	38,000	51.7	178.0	36,900	95
100	42.1	165.7	36,900	45.9	170.8	35,500	48.5	173.8	34,600	100
105	38.5	159.8	34,600	42.5	165.6	33,400	45.3	169.1	32,500	105
110	34.4	153.1	32,600	38.8	159.8	31,400	41.8	163.8	30,500	110
115	30.0	145.1	30,800	34.8	153.1	29,700	38.1	157.9	28,800	115
120	24.8	135.5	29,100	30.4	145.3	28,000	34.0	151.0	27,200	120
125	18.2	122.8	27,500	25.3	135.8	26,500	29.5	142.9	25,800	125
130	7.5	100.9	24,100	18.9	123.5	25,200	24.2	133.0	24,400	130
135				9.0	103.4	23,800	17.5	119.9	23,200	135
140							5.5	95.3	22,000	140
145										145
150										150
155										155

MLC165-1 S-2

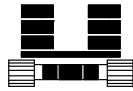
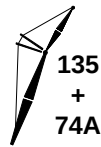
ASME B30.5



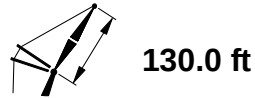
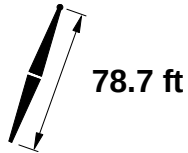
123,400 lb
+
45,100 lb



	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	61.2	187.3	40,600							85
90	58.5	184.4	37,700							90
95	55.6	181.2	35,200							95
100	52.7	177.6	32,900	56.5	179.9	31,300				100
105	49.6	173.5	30,900	53.6	176.4	29,400				105
110	46.4	169.0	29,100	50.5	172.5	27,700				110
115	43.0	164.0	27,400	47.4	168.2	26,100	51.3	170.8	24,700	115
120	39.4	158.3	25,900	44.0	163.3	24,600	48.2	166.5	23,300	120
125	35.4	151.7	24,500	40.5	157.8	23,300	44.9	161.8	22,100	125
130	31.1	144.1	23,300	36.6	151.5	22,100	41.4	156.5	20,900	130
135	26.1	134.9	22,100	32.4	144.3	21,000	37.6	150.4	19,800	135
140	20.0	123.1	21,000	27.7	135.6	19,900	33.5	143.4	18,800	140
145	11.0	105.1	19,900	22.0	124.8	18,900	28.9	135.2	17,900	145
150				14.3	109.5	18,000	23.5	125.0	17,000	150
155							16.6	111.3	16,200	155



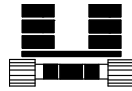
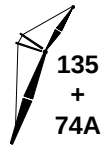
123,400 lb
+
45,100 lb



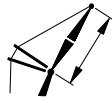
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
45	74.9	210.7	51,300 b							45
50	72.6	209.2	50,300 b							50
55	70.2	207.6	49,300 b							55
60	67.9	205.6	48,300	70.4	207.1	49,700 b				60
65	65.5	203.5	47,400	68.1	205.2	48,900				65
70	63.0	201.1	46,600	65.7	203.1	48,200	67.6	204.1	48,600	70
75	60.5	198.4	45,200	63.3	200.7	47,400	65.2	201.9	48,000	75
80	58.0	195.4	43,400	60.8	198.0	45,700	62.8	199.5	45,700	80
85	55.3	192.1	41,800	58.2	195.1	43,500	60.3	196.8	42,300	85
90	52.6	188.5	40,200	55.6	191.8	40,500	57.7	193.7	39,300	90
95	49.8	184.5	38,700	52.9	188.2	37,800	55.1	190.4	36,700	95
100	46.8	180.0	36,700	50.0	184.2	35,400	52.3	186.7	34,400	100
105	43.7	175.0	34,500	47.1	179.8	33,200	49.5	182.7	32,300	105
110	40.4	169.5	32,400	44.0	174.9	31,300	46.5	178.2	30,400	110
115	36.9	163.2	30,600	40.7	169.4	29,500	43.4	173.2	28,600	115
120	33.0	156.1	28,900	37.2	163.2	27,900	40.1	167.6	27,100	120
125	28.8	147.7	27,400	33.4	156.2	26,400	36.5	161.2	25,600	125
130	23.8	137.6	26,000	29.2	147.9	25,000	32.7	154.0	24,300	130
135	17.5	124.3	24,700	24.3	138.0	23,800	28.3	145.5	23,100	135
140	7.2	101.5	21,700	18.2	125.1	22,600	23.2	135.1	21,900	140
145				8.7	104.2	21,500	16.8	121.4	20,900	145
150							5.3	95.7	19,800	150
155										155
160										160
165										165

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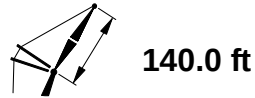
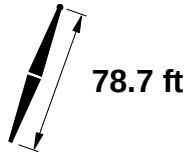
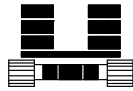
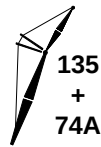
ASME B30.5



123,400 lb
+
45,100 lb



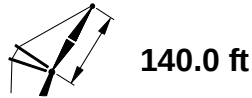
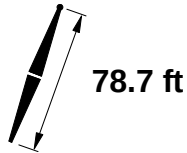
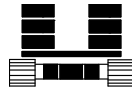
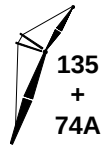
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90	61.1	196.0	37,500							90
95	58.6	193.1	35,000							95
100	56.0	189.9	32,700							100
105	53.3	186.3	30,700	56.7	188.6	29,200				105
110	50.4	182.4	28,900	54.1	185.2	27,400				110
115	47.5	178.1	27,200	51.3	181.4	25,800				115
120	44.5	173.2	25,700	48.4	177.1	24,400	52.0	179.6	23,100	120
125	41.2	167.8	24,300	45.4	172.5	23,100	49.2	175.5	21,900	125
130	37.8	161.8	23,100	42.2	167.3	21,900	46.2	170.9	20,700	130
135	34.0	154.8	21,900	38.8	161.4	20,800	43.0	165.8	19,600	135
140	29.8	146.8	20,800	35.2	154.8	19,700	39.7	160.1	18,600	140
145	25.0	137.2	19,800	31.1	147.1	18,800	36.1	153.7	17,700	145
150	19.2	124.9	18,900	26.5	138.0	17,900	32.2	146.4	16,900	150
155	10.6	106.0	17,900	21.1	126.7	17,000	27.8	137.7	16,100	155
160				13.7	110.7	16,200	22.6	127.0	15,300	160
165							15.9	112.7	14,600	165



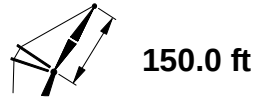
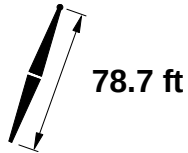
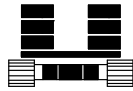
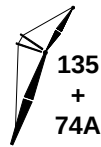
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
50	73.8	219.7	47,100 b							50
55	71.7	218.1	46,200 b							55
60	69.5	216.4	45,400							60
65	67.3	214.4	44,600	69.7	215.9	45,800				65
70	65.1	212.2	43,100	67.5	214.0	45,100				70
75	62.8	209.7	41,400	65.3	211.8	43,500	67.1	212.8	44,700	75
80	60.5	207.0	39,800	63.0	209.3	41,800	64.9	210.6	43,100	80
85	58.1	204.1	38,200	60.7	206.7	40,200	62.6	208.1	41,500	85
90	55.7	200.8	36,700	58.3	203.7	38,600	60.3	205.4	39,100	90
95	53.1	197.2	35,200	55.9	200.5	37,200	57.9	202.4	36,400	95
100	50.5	193.3	33,800	53.4	196.9	35,100	55.4	199.1	34,100	100
105	47.8	189.0	32,400	50.8	193.0	32,900	52.9	195.5	32,000	105
110	45.0	184.2	31,200	48.1	188.8	31,000	50.3	191.5	30,100	110
115	42.0	179.0	30,000	45.3	184.1	29,200	47.6	187.2	28,400	115
120	38.9	173.1	28,700	42.3	178.8	27,600	44.7	182.4	26,800	120
125	35.5	166.5	27,200	39.2	173.0	26,100	41.8	177.1	25,400	125
130	31.8	159.0	25,800	35.8	166.5	24,800	38.6	171.1	24,000	130
135	27.7	150.3	24,500	32.2	159.1	23,500	35.2	164.5	22,800	135
140	22.9	139.7	23,300	28.1	150.5	22,400	31.4	156.9	21,700	140
145	16.9	125.8	22,200	23.4	140.1	21,300	27.3	148.0	20,600	145
150	6.9	102.1	19,300	17.5	126.7	20,300	22.4	137.2	19,700	150
155				8.4	104.9	19,300	16.2	122.9	18,700	155
160							5.1	96.2	17,800	160
165										165
170										170
175										175

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ASME B30.5



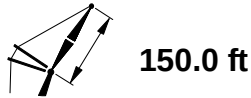
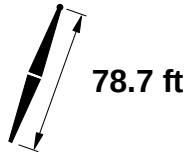
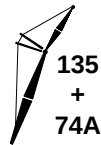
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95	61.0	204.7	34,600							95
100	58.7	201.8	32,400							100
105	56.2	198.6	30,400							105
110	53.8	195.1	28,600	57.0	197.3	27,100				110
115	51.2	191.2	26,900	54.5	193.9	25,500				115
120	48.5	187.0	25,400	51.9	190.2	24,100				120
125	45.7	182.4	24,100	49.3	186.1	22,800	52.6	188.3	21,500	125
130	42.8	177.2	22,800	46.5	181.5	21,600	50.0	184.3	20,400	130
135	39.7	171.5	21,600	43.7	176.6	20,500	47.3	179.9	19,300	135
140	36.3	165.1	20,600	40.6	171.0	19,400	44.4	175.1	18,300	140
145	32.7	157.8	19,600	37.4	164.9	18,500	41.4	169.7	17,400	145
150	28.7	149.4	18,600	33.8	157.9	17,600	38.2	163.7	16,600	150
155	24.1	139.4	17,700	30.0	149.8	16,700	34.8	156.9	15,800	155
160	18.5	126.5	16,900	25.6	140.3	16,000	31.0	149.2	15,000	160
165	10.2	106.9	16,100	20.3	128.5	15,200	26.7	140.1	14,300	165
170				13.2	111.9	14,500	21.8	129.0	13,600	170
175							15.3	114.1	13,000	175



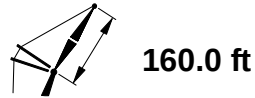
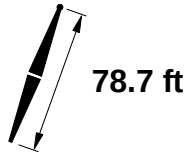
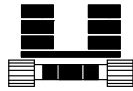
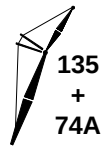
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
50	74.9	230.1	44,100 b							50
55	73.0	228.6	43,300 b							55
60	70.9	227.0	42,500							60
65	68.9	225.2	41,500							65
70	66.9	223.1	39,900	69.1	224.7	41,700				70
75	64.8	220.9	38,200	67.0	222.7	40,100				75
80	62.6	218.4	36,600	65.0	220.5	38,500	66.7	221.6	39,600	80
85	60.5	215.7	35,200	62.8	218.0	37,000	64.6	219.3	38,100	85
90	58.2	212.7	33,600	60.7	215.3	35,500	62.4	216.8	36,600	90
95	56.0	209.5	32,200	58.4	212.4	34,100	60.2	214.1	35,200	95
100	53.6	206.0	30,900	56.2	209.2	32,600	58.0	211.1	33,800	100
105	51.2	202.1	29,600	53.8	205.7	31,300	55.7	207.8	31,900	105
110	48.7	197.9	28,300	51.4	201.9	30,000	53.4	204.3	30,000	110
115	46.1	193.3	27,100	49.0	197.7	28,700	51.0	200.4	28,300	115
120	43.4	188.3	26,000	46.4	193.1	27,500	48.5	196.1	26,700	120
125	40.6	182.7	24,900	43.7	188.1	26,100	45.9	191.5	25,300	125
130	37.5	176.6	23,900	40.8	182.6	24,700	43.1	186.4	24,000	130
135	34.3	169.7	23,000	37.8	176.5	23,500	40.3	180.8	22,800	135
140	30.7	161.8	22,000	34.6	169.7	22,300	37.2	174.6	21,600	140
145	26.7	152.7	21,200	31.0	161.9	21,300	33.9	167.6	20,600	145
150	22.1	141.7	20,500	27.1	152.9	20,300	30.3	159.6	19,600	150
155	16.3	127.3	19,800	22.6	142.1	19,300	26.3	150.4	18,700	155
160	6.7	102.7	17,300	16.9	128.2	18,400	21.6	139.1	17,900	160
165				8.1	105.6	17,600	15.6	124.3	17,000	165
170							4.9	96.6	16,200	170
175										175
180										180
185										185

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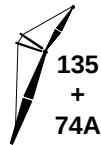
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100	61.0	213.3	32,300							100
105	58.8	210.4	30,300							105
110	56.5	207.3	28,500							110
115	54.2	203.8	26,800	57.2	206.0	25,400				115
120	51.8	200.0	25,300	54.9	202.6	24,000				120
125	49.3	195.9	24,000	52.5	198.9	22,700				125
130	46.7	191.4	22,700	50.1	194.9	21,500				130
135	44.1	186.5	21,600	47.5	190.6	20,400	50.7	193.2	19,200	135
140	41.2	181.1	20,500	44.9	185.8	19,300	48.2	188.9	18,200	140
145	38.3	175.1	19,500	42.1	180.5	18,400	45.6	184.2	17,300	145
150	35.1	168.3	18,600	39.2	174.7	17,500	42.8	179.1	16,500	150
155	31.6	160.7	17,700	36.0	168.2	16,700	39.9	173.4	15,700	155
160	27.7	151.9	16,900	32.7	160.8	15,900	36.9	167.1	14,900	160
165	23.3	141.5	16,100	28.9	152.5	15,200	33.5	160.0	14,300	165
170	17.8	128.1	15,400	24.7	142.6	14,500	29.9	151.9	13,600	170
175	9.9	107.8	14,700	19.6	130.3	13,800	25.8	142.4	13,000	175
180				12.8	113.0	13,200	21.0	130.9	12,400	180
185							14.8	115.4	11,800	185



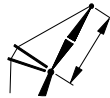
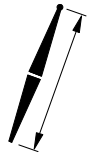
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
55	74.1	239.1	40,300 b							55
60	72.2	237.5	39,600							60
65	70.3	235.8	38,000							65
70	68.4	234.0	36,400	70.5	235.4	38,100				70
75	66.4	231.9	34,900	68.6	233.5	36,600				75
80	64.5	229.6	33,400	66.6	231.4	35,100				80
85	62.5	227.1	31,900	64.7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

MLC165-1 S-2

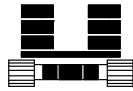
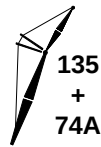
ASME B30.5



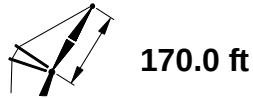
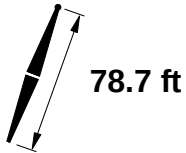
123,400 lb
+
45,100 lb



	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	31,900							100
105	60.9	222.0	30,000							105
110	58.8	219.1	28,200							110
115	56.7	215.9	26,500							115
120	54.6	212.5	25,000	57.4	214.7	23,700				120
125	52.3	208.8	23,700	55.2	211.3	22,400				125
130	50.0	204.8	22,400	53.0	207.7	21,200				130
135	47.7	200.4	21,300	50.7	203.8	20,100				135
140	45.2	195.7	20,200	48.4	199.5	19,000	51.3	202.0	17,900	140
145	42.6	190.5	19,200	45.9	194.9	18,100	49.0	197.8	17,000	145
150	39.9	184.8	18,300	43.4	189.8	17,200	46.6	193.3	16,200	150
155	37.0	178.5	17,400	40.7	184.3	16,400	44.0	188.3	15,400	155
160	33.9	171.4	16,600	37.9	178.2	15,600	41.4	182.9	14,600	160
165	30.6	163.5	15,900	34.9	171.4	14,900	38.6	177.0	13,900	165
170	26.8	154.4	15,100	31.6	163.7	14,200	35.6	170.4	13,300	170
175	22.5	143.5	14,500	28.0	155.0	13,600	32.4	163.0	12,700	175
180	17.3	129.7	13,800	23.9	144.7	13,000	28.9	154.5	12,100	180
185	9.5	108.7	13,200	19.0	132.0	12,400	25.0	144.7	11,600	185
190				12.4	114.1	11,800	20.3	132.7	11,000	190
195							14.3	116.7	10,500	195



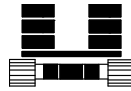
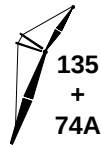
123,400 lb
+
45,100 lb



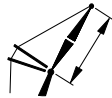
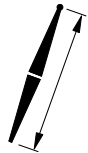
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
60	73.3	248.0	36,500							60
65	71.5	246.4	35,000							65
70	69.7	244.7	33,600							70
75	67.9	242.7	32,100	69.9	244.2	33,600				75
80	66.1	240.6	30,600	68.1	242.3	32,200				80
85	64.2	238.3	29,300	66.2	240.2	30,800	67.7	241.2	31,800	85
90	62.3	235.8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

MLC165-1 S-2

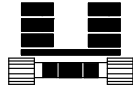
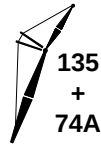
ASME B30.5



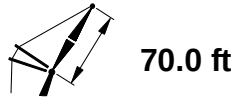
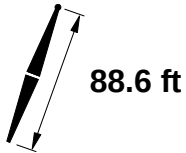
123,400 lb
+
45,100 lb



	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	27,900							105
110	60.9	230.7	26,800							110
115	58.9	227.8	25,600							115
120	56.9	224.6	24,500							120
125	54.9	221.2	23,300	57.5	223.3	22,100				125
130	52.8	217.6	22,200	55.5	220.0	20,900				130
135	50.7	213.6	21,000	53.4	216.4	19,800				135
140	48.4	209.4	20,000	51.3	212.6	18,800				140
145	46.1	204.8	19,000	49.1	208.4	17,900	51.8	210.8	16,700	145
150	43.8	199.7	18,100	46.8	203.9	17,000	49.7	206.7	15,900	150
155	41.3	194.3	17,200	44.5	199.0	16,200	47.4	202.3	15,100	155
160	38.6	188.3	16,400	42.0	193.7	15,400	45.1	197.5	14,400	160
165	35.9	181.7	15,600	39.4	187.9	14,700	42.7	192.3	13,700	165
170	32.9	174.4	14,700	36.7	181.5	14,000	40.1	186.6	13,100	170
175	29.6	166.2	13,800	33.8	174.4	13,400	37.4	180.4	12,500	175
180	26.0	156.7	12,800	30.6	166.5	12,800	34.5	173.5	11,900	180
185	21.9	145.4	12,000	27.1	157.4	12,200	31.5	165.8	11,300	185
190	16.8	131.2	11,200	23.2	146.8	11,600	28.1	157.1	10,800	190
195	9.3	109.5	10,500	18.4	133.6	11,100	24.2	146.9	10,300	195
200				12.0	115.2	10,600	19.7	134.5	9,900	200
205							13.9	117.9	9,400	205



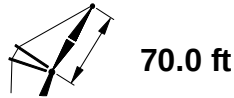
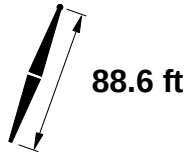
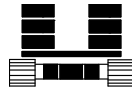
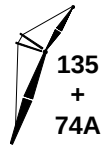
123,400 lb
+
45,100 lb



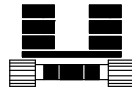
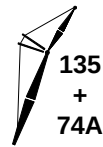
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
30	74.7	162.6	106,100 d							30
32	73.0	162.0	106,100 d							32
34	71.3	161.3	106,100 d							34
36	69.6	160.6	106,100 c							36
38	67.8	159.9	106,000 c							38
40	66.0	159.0	102,500 c							40
45	61.4	156.5	90,900 b	67.0	158.8	99,400 c				45
50	56.7	153.5	81,800 b	62.5	156.4	86,700 c	66.7	157.8	84,300 c	50
55	51.6	149.9	74,600 b	57.8	153.6	76,700 b	62.1	155.4	74,600 b	55
60	46.2	145.6	68,600	52.8	150.1	68,700 b	57.4	152.5	66,800 b	60
65	40.2	140.2	63,700	47.5	145.9	62,100	52.4	149.0	60,400 b	65
70	33.4	133.5	58,600	41.6	140.9	56,500	47.0	144.7	55,000	70
75	25.0	124.6	53,700	35.0	134.5	51,800	41.1	139.6	50,400	75
80	12.0	109.6	49,400	27.1	126.2	47,800	34.4	133.1	46,500	80
85				15.9	113.6	44,200	26.3	124.6	43,000	85
90							14.6	111.2	39,900	90
95										95
100										100
105										105
110										110

MLC165-1 S-2

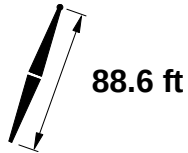
ASME B30.5



	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	57,600 b							65
70	54.9	149.0	52,500 b							70
75	49.7	145.1	48,100 b	57.2	148.0	45,800 b				75
80	44.1	140.4	44,300	52.2	144.5	42,200 b				80
85	37.9	134.7	41,100	46.8	140.2	39,100				85
90	30.6	127.3	38,200	40.9	135.0	36,300	49.1	138.9	34,500 b	90
95	21.2	117.0	35,600	34.2	128.5	33,900	43.4	134.1	32,200	95
100				26.0	119.8	31,700	37.1	128.2	30,100	100
105				14.0	106.1	29,700	29.6	120.6	28,300	105
110							19.8	109.7	26,500	110



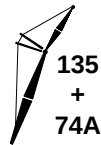
123,400 lb
+
45,100 lb



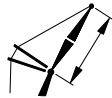
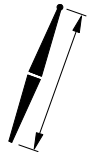
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
34	73.7	171.8	97,100 d							34
36	72.2	171.2	97,100 d							36
38	70.7	170.5	97,000 c							38
40	69.2	169.8	96,900 c							40
45	65.3	167.7	91,500 b	70.0	169.5	99,100 c				45
50	61.3	165.2	82,100 b	66.2	167.5	86,400 c				50
55	57.1	162.2	74,600 b	62.2	165.1	76,400 b	65.8	166.5	74,300 b	55
60	52.7	158.7	68,400	58.1	162.2	68,400 b	61.9	164.1	66,500 b	60
65	48.1	154.6	63,400	53.7	158.9	61,800	57.7	161.2	60,100 b	65
70	43.1	149.7	58,400	49.2	154.9	56,300	53.4	157.7	54,700	70
75	37.5	143.8	53,600	44.2	150.2	51,600	48.8	153.7	50,200	75
80	31.2	136.4	49,400	38.8	144.5	47,600	43.8	148.9	46,300	80
85	23.3	126.7	45,700	32.7	137.6	44,100	38.3	143.2	42,900	85
90	11.3	110.7	42,400	25.3	128.6	41,000	32.1	136.1	39,900	90
95				14.9	114.9	38,200	24.6	126.8	37,200	95
100							13.6	112.4	34,700	100
105										105
110										110
115										115
120										120

MLC165-1 S-2

ASME B30.5



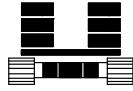
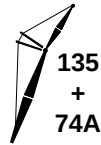
123,400 lb
+
45,100 lb



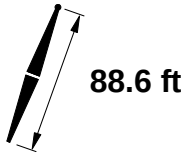
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70	59.8	160.8	52,100 b							70
75	55.6	157.7	47,800 b							75
80	51.1	153.9	44,000	57.5	156.7	41,800 b				80
85	46.3	149.5	40,800	53.2	153.2	38,700				85
90	41.2	144.3	37,900	48.6	149.2	36,000				90
95	35.4	138.0	35,400	43.6	144.3	33,600	50.5	147.8	31,900	95
100	28.6	130.0	33,100	38.1	138.6	31,500	45.7	143.3	29,800	100
105	19.9	118.9	31,000	31.9	131.4	29,500	40.5	138.0	28,000	105
110				24.3	122.1	27,700	34.6	131.4	26,300	110
115				13.1	107.2	26,100	27.6	123.2	24,800	115
120							18.5	111.4	23,300	120

MLC165-1 S-2

ASME B30.5



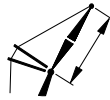
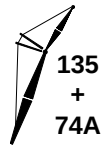
123,400 lb
+
45,100 lb



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	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	84,300 b							45
50	64.7	176.4	80,700 b	69.0	178.3	85,800 c				50
55	61.1	173.9	75,100 b	65.5	176.3	76,200 b				55
60	57.4	170.9	68,700	62.0	173.8	68,200 b	65.2	175.3	66,300 b	60
65	53.6	167.4	63,400	58.3	170.9	61,700 b	61.6	172.8	59,900 b	65
70	49.5	163.5	58,300	54.5	167.6	56,200	58.0	169.8	54,600 b	70
75	45.2	158.9	53,500	50.4	163.7	51,500	54.1	166.5	50,000	75
80	40.5	153.5	49,300	46.2	159.3	47,500	50.1	162.6	46,100	80
85	35.3	147.0	45,700	41.6	154.1	44,000	45.8	158.1	42,700	85
90	29.3	139.1	42,500	36.5	147.9	40,900	41.2	152.8	39,700	90
95	22.0	128.7	39,700	30.8	140.4	38,200	36.1	146.5	37,100	95
100	10.6	111.6	37,100	23.9	130.7	35,800	30.3	138.9	34,700	100
105				14.0	116.2	33,500	23.2	128.9	32,600	105
110							12.9	113.6	30,600	110
115										115
120										120
125										125
130										130

MLC165-1 S-2

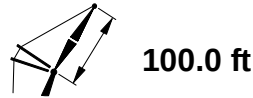
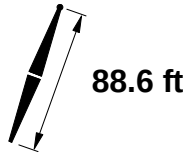
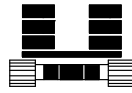
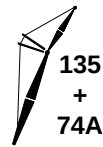
ASME B30.5

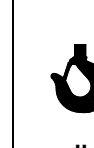
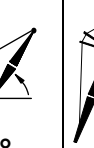
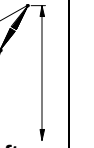


	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75	59.8	169.5	47,600 b							75
80	56.1	166.4	43,900							80
85	52.1	162.7	40,600	57.8	165.3	38,500				85
90	48.0	158.5	37,800	54.0	162.0	35,800				90
95	43.5	153.7	35,300	49.9	158.0	33,400				95
100	38.7	148.0	33,000	45.6	153.5	31,300	51.6	156.6	29,600	100
105	33.3	141.1	31,000	41.0	148.2	29,400	47.4	152.3	27,800	105
110	26.9	132.4	29,100	35.9	141.9	27,600	43.0	147.4	26,100	110
115	18.7	120.6	27,400	30.0	134.2	26,000	38.1	141.5	24,600	115
120				22.9	124.1	24,600	32.5	134.5	23,200	120
125				12.3	108.4	23,200	26.0	125.5	22,000	125
130							17.4	113.0	20,800	130

MLC165-1 S-2

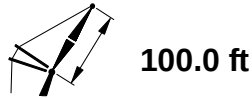
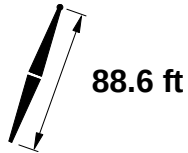
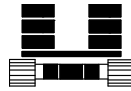
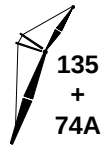
ASME B30.5



	87°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	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	73,300 b							50
55	64.2	185.1	70,100 b	68.1	187.1	74,600 b				55
60	61.0	182.5	67,100	65.0	185.0	68,000 b	67.8	186.2	66,000 b	60
65	57.7	179.6	63,800	61.8	182.4	61,400	64.7	184.0	59,600 b	65
70	54.2	176.2	58,100	58.5	179.6	55,900	61.5	181.4	54,300	70
75	50.6	172.3	53,300	55.0	176.3	51,200	58.2	178.5	49,700	75
80	46.8	167.9	49,100	51.5	172.6	47,200	54.7	175.2	45,800	80
85	42.7	162.9	45,500	47.7	168.3	43,800	51.1	171.4	42,500	85
90	38.3	157.0	42,300	43.7	163.4	40,700	47.4	167.1	39,500	90
95	33.4	150.1	39,500	39.4	157.8	38,000	43.3	162.2	36,800	95
100	27.8	141.7	37,000	34.6	151.1	35,600	39.0	156.4	34,500	100
105	20.8	130.6	34,700	29.2	143.1	33,400	34.2	149.7	32,400	105
110	10.1	112.5	32,600	22.6	132.8	31,400	28.7	141.5	30,500	110
115				13.3	117.4	29,600	22.0	130.9	28,700	115
120							12.2	114.7	27,100	120
125										125
130										130
135										135
140										140

MLC165-1 S-2

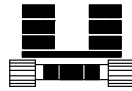
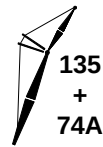
ASME B30.5



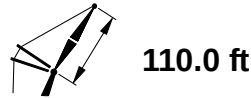
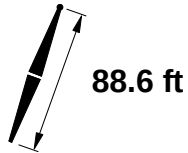
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80	59.8	178.1	43,500							80
85	56.5	175.0	40,300							85
90	53.0	171.5	37,500							90
95	49.3	167.5	34,900	54.6	170.7	33,100				95
100	45.4	162.9	32,700	51.0	166.9	30,900				100
105	41.2	157.6	30,700	47.2	162.6	29,000	52.5	165.4	27,400	105
110	36.6	151.4	28,900	43.2	157.6	27,300	48.8	161.3	25,800	110
115	31.5	144.0	27,200	38.8	151.8	25,700	44.9	156.6	24,300	115
120	25.5	134.8	25,700	34.0	145.1	24,300	40.7	151.2	22,900	120
125	17.7	122.2	24,300	28.4	136.8	23,000	36.0	144.9	21,700	125
130				21.7	126.1	21,800	30.8	137.3	20,500	130
135				11.7	109.4	20,600	24.7	127.8	19,400	135
140							16.5	114.5	18,400	140

MLC165-1 S-2

ASME B30.5



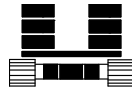
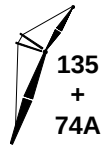
123,400 lb
+
45,100 lb



	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	66,200 b	70.2	197.8	69,600 b				55
60	63.9	193.8	63,900	67.4	195.9	67,400 b				60
65	60.9	191.2	61,600	64.5	193.7	61,300	67.1	194.9	59,500 b	65
70	57.9	188.2	58,000	61.6	191.1	55,800	64.3	192.6	54,200	70
75	54.8	184.9	53,200	58.6	188.2	51,200	61.4	190.1	49,700	75
80	51.5	181.1	49,100	55.5	185.0	47,200	58.3	187.2	45,800	80
85	48.1	176.9	45,500	52.3	181.3	43,700	55.2	183.9	42,400	85
90	44.5	172.1	42,300	48.9	177.2	40,700	52.0	180.2	39,400	90
95	40.7	166.7	39,500	45.3	172.6	38,000	48.6	176.1	36,800	95
100	36.5	160.4	37,000	41.6	167.3	35,600	45.0	171.4	34,500	100
105	31.8	153.1	34,800	37.5	161.3	33,400	41.2	166.0	32,400	105
110	26.5	144.1	32,700	32.9	154.2	31,500	37.1	159.9	30,500	110
115	19.9	132.4	30,900	27.8	145.6	29,700	32.5	152.7	28,800	115
120	9.6	113.4	29,100	21.5	134.7	28,000	27.3	144.0	27,200	120
125				12.7	118.5	26,500	20.9	132.8	25,700	125
130							11.6	115.7	24,400	130
135										135
140										140
145										145
150										150

MLC165-1 S-2

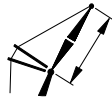
ASME B30.5



123,400 lb
+
45,100 lb

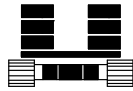
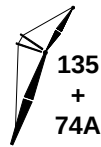


88.6 ft

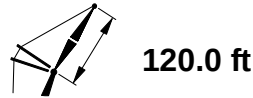
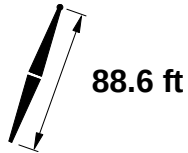


110.0 ft

	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	62.8	189.5	43,500							80
85	59.9	186.8	40,200							85
90	56.8	183.7	37,400							90
95	53.6	180.2	34,900							95
100	50.3	176.3	32,700	55.1	179.4	30,900				100
105	46.8	171.9	30,700	51.9	175.7	29,000				105
110	43.2	166.9	28,900	48.5	171.5	27,300				110
115	39.2	161.2	27,200	44.9	166.8	25,700	49.9	170.2	24,300	115
120	34.9	154.6	25,700	41.1	161.4	24,300	46.4	165.7	22,900	120
125	30.0	146.7	24,400	36.9	155.3	23,000	42.7	160.6	21,700	125
130	24.3	137.0	23,100	32.4	148.0	21,800	38.7	154.8	20,500	130
135	16.9	123.7	21,900	27.1	139.3	20,700	34.3	148.0	19,500	135
140				20.7	128.0	19,600	29.4	140.0	18,500	140
145				11.1	110.4	18,600	23.5	129.9	17,600	145
150							15.8	115.9	16,700	150



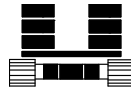
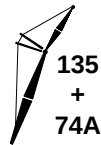
123,400 lb
+
45,100 lb



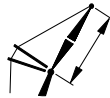
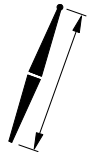
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
45	73.8	210.3	66,000 b							45
50	71.3	208.7	63,500 b							50
55	68.8	206.9	61,200 b							55
60	66.2	204.8	58,800	69.4	206.6	62,000 b				60
65	63.5	202.5	56,600	66.8	204.6	59,800				65
70	60.9	199.8	54,500	64.2	202.3	55,600	66.6	203.6	53,900	70
75	58.1	196.9	52,600	61.5	199.8	50,900	63.9	201.3	49,400	75
80	55.2	193.6	48,800	58.7	196.9	46,900	61.2	198.7	45,500	80
85	52.3	189.9	45,200	55.9	193.7	43,500	58.5	195.8	42,100	85
90	49.2	185.8	42,100	52.9	190.1	40,400	55.6	192.6	39,200	90
95	45.9	181.3	39,300	49.9	186.1	37,700	52.7	189.0	36,500	95
100	42.5	176.1	36,800	46.7	181.7	35,300	49.6	185.0	34,200	100
105	38.9	170.3	34,600	43.3	176.7	33,200	46.4	180.5	32,100	105
110	34.9	163.6	32,500	39.7	171.0	31,200	43.0	175.4	30,200	110
115	30.4	155.8	30,700	35.8	164.6	29,500	39.4	169.7	28,500	115
120	25.3	146.4	29,000	31.5	157.1	27,800	35.5	163.2	26,900	120
125	19.0	134.1	27,500	26.6	148.0	26,400	31.1	155.5	25,500	125
130	9.2	114.2	26,000	20.6	136.6	25,000	26.1	146.4	24,200	130
135				12.1	119.6	23,700	20.0	134.6	23,000	135
140							11.1	116.7	21,800	140
145										145
150										150
155										155
160										160

MLC165-1 S-2

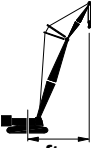
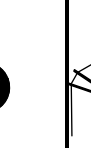
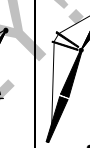
ASME B30.5

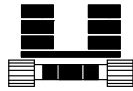
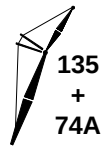


123,400 lb
+
45,100 lb

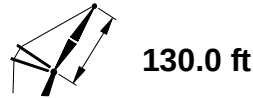
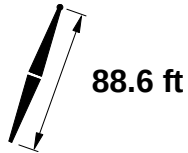


120.0 ft

	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	39,900							85
90	59.9	195.5	37,100							90
95	57.1	192.4	34,600							95
100	54.2	189.0	32,400							100
105	51.2	185.2	30,400	55.5	188.1	28,700				105
110	48.0	180.9	28,600	52.6	184.5	27,000				110
115	44.7	176.1	26,900	49.5	180.4	25,400				115
120	41.2	170.8	25,500	46.3	175.9	24,000	50.8	179.0	22,600	120
125	37.5	164.7	24,100	42.9	170.8	22,700	47.6	174.7	21,300	125
130	33.4	157.6	22,800	39.3	165.1	21,500	44.3	169.9	20,200	130
135	28.7	149.3	21,700	35.3	158.5	20,400	40.8	164.4	19,200	135
140	23.3	139.1	20,600	30.9	150.9	19,400	37.0	158.2	18,200	140
145	16.2	125.1	19,600	25.9	141.6	18,400	32.8	151.0	17,300	145
150				19.8	129.7	17,500	28.1	142.5	16,400	150
155				10.7	111.4	16,700	22.5	132.0	15,600	155
160							15.1	117.3	14,900	160



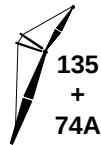
123,400 lb
+
45,100 lb



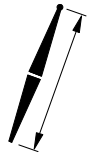
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
50	72.8	219.2	49,500 b							50
55	70.5	217.6	48,600 b							55
60	68.1	215.7	47,600							60
65	65.7	213.5	46,800	68.7	215.4	48,300				65
70	63.3	211.2	46,000	66.3	213.4	47,600				70
75	60.8	208.5	45,100	63.8	211.0	46,900	66.1	212.4	47,400	75
80	58.2	205.6	43,400	61.4	208.4	45,900	63.6	210.0	45,300	80
85	55.6	202.3	41,800	58.8	205.6	43,200	61.1	207.4	41,900	85
90	52.9	198.7	40,300	56.2	202.4	40,200	58.6	204.5	38,900	90
95	50.1	194.7	38,800	53.5	198.9	37,500	56.0	201.3	36,300	95
100	47.1	190.3	36,600	50.7	195.0	35,100	53.3	197.7	34,000	100
105	44.0	185.4	34,400	47.8	190.7	33,000	50.5	193.8	31,900	105
110	40.8	179.9	32,400	44.8	185.9	31,000	47.6	189.5	30,000	110
115	37.3	173.8	30,600	41.5	180.5	29,300	44.5	184.6	28,300	115
120	33.5	166.7	28,900	38.1	174.5	27,700	41.3	179.3	26,800	120
125	29.2	158.5	27,400	34.4	167.7	26,200	37.8	173.2	25,300	125
130	24.3	148.6	26,000	30.2	159.8	24,900	34.0	166.3	24,000	130
135	18.3	135.8	24,600	25.5	150.4	23,600	29.9	158.3	22,800	135
140	8.8	115.0	23,400	19.8	138.4	22,400	25.1	148.6	21,700	140
145				11.7	120.6	21,300	19.2	136.4	20,600	145
150							10.7	117.7	19,600	150
155										155
160										160
165										165
170										170

MLC165-1 S-2

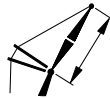
ASME B30.5



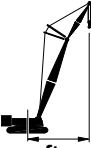
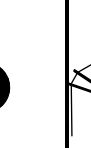
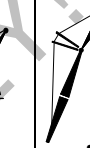
123,400 lb
+
45,100 lb

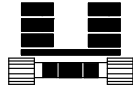
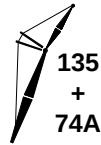


88.6 ft

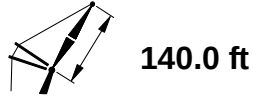
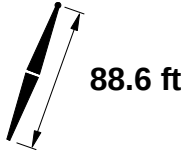


130.0 ft

	75°			70°			65°			
										
	ft	ft	ft	lb	ft	ft	lb	ft	ft	lb
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90	62.4	206.9								90
95	59.9	204.1								95
100	57.3	201.1								100
105	54.6	197.7								105
110	51.9	194.0								110
115	49.0	189.8								115
120	46.0	185.3								120
125	42.9	180.2								125
130	39.6	174.5								130
135	36.0	168.0								135
140	32.0	160.6								140
145	27.6	151.8								145
150	22.3	141.1								150
155	15.6	126.5								155
160										160
165										165
170										170



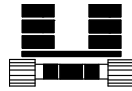
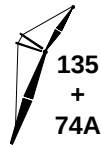
123,400 lb
+
45,100 lb



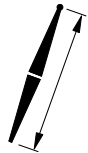
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
50	74.1	229.7	46,400 b							50
55	71.9	228.1	45,500 b							55
60	69.8	226.4	44,700							60
65	67.6	224.4	44,000	70.3	226.1	45,200				65
70	65.3	222.3	43,000	68.1	224.2	44,500				70
75	63.0	219.8	41,300	65.8	222.1	43,600	67.9	223.2	44,100	75
80	60.7	217.2	39,800	63.6	219.7	42,000	65.6	221.1	43,300	80
85	58.4	214.2	38,200	61.3	217.1	40,400	63.4	218.7	41,600	85
90	55.9	211.0	36,700	58.9	214.2	38,900	61.1	216.1	38,600	90
95	53.4	207.4	35,300	56.5	211.1	37,200	58.7	213.2	36,000	95
100	50.8	203.6	33,800	54.0	207.6	34,900	56.3	210.0	33,700	100
105	48.1	199.3	32,500	51.4	203.8	32,700	53.8	206.5	31,600	105
110	45.3	194.6	31,300	48.8	199.6	30,800	51.2	202.6	29,700	110
115	42.4	189.4	30,100	46.0	195.0	29,000	48.5	198.4	28,000	115
120	39.2	183.6	28,700	43.0	189.9	27,400	45.7	193.8	26,500	120
125	35.9	177.1	27,200	40.0	184.3	26,000	42.8	188.6	25,100	125
130	32.2	169.7	25,800	36.7	177.9	24,600	39.7	182.9	23,800	130
135	28.1	161.1	24,500	33.1	170.8	23,400	36.4	176.5	22,600	135
140	23.4	150.7	23,300	29.1	162.5	22,200	32.8	169.3	21,400	140
145	17.6	137.3	22,100	24.6	152.6	21,100	28.8	160.9	20,400	145
150	8.5	115.7	20,900	19.1	140.1	20,100	24.2	150.8	19,400	150
155				11.2	121.6	19,200	18.5	138.0	18,500	155
160							10.3	118.6	17,600	160
165										165
170										170
175										175
180										180

MLC165-1 S-2

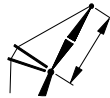
ASME B30.5



123,400 lb
+
45,100 lb

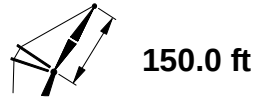
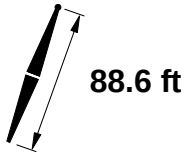
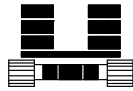
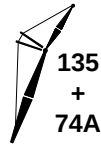


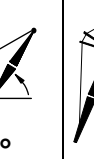
88.6 ft



140.0 ft

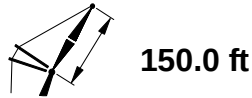
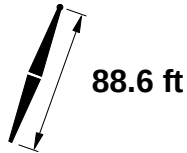
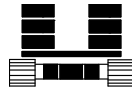
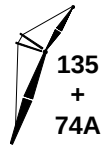
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95	62.2	215.6	34,000							95
100	59.9	212.8	31,800							100
105	57.5	209.7	29,800							105
110	55.0	206.4	28,000							110
115	52.5	202.7	26,400	56.2	205.5	24,800				115
120	49.9	198.7	24,900	53.7	202.0	23,400				120
125	47.1	194.3	23,600	51.1	198.1	22,100				125
130	44.3	189.4	22,400	48.4	193.9	21,000	52.2	196.6	19,600	130
135	41.3	184.0	21,200	45.6	189.2	19,900	49.5	192.5	18,600	135
140	38.1	178.0	20,100	42.7	184.1	18,900	46.8	188.1	17,600	140
145	34.6	171.2	19,200	39.6	178.3	17,900	43.9	183.1	16,700	145
150	30.8	163.4	18,200	36.2	171.9	17,100	40.9	177.6	15,900	150
155	26.5	154.2	17,400	32.6	164.6	16,300	37.6	171.5	15,100	155
160	21.5	143.0	16,600	28.6	156.2	15,500	34.1	164.6	14,400	160
165	15.0	127.9	15,800	24.0	146.0	14,800	30.3	156.7	13,700	165
170				18.3	133.1	14,100	26.0	147.3	13,100	170
175				9.9	113.1	13,400	20.8	135.8	12,500	175
180							14.0	119.8	11,900	180



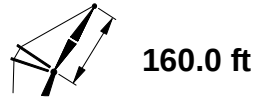
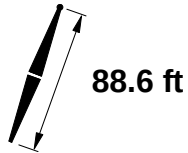
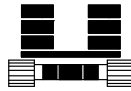
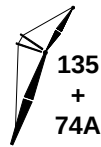
	87°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
55	73.2	238.6	42,600 b							55
60	71.2	237.0	41,900							60
65	69.1	235.2	41,200							65
70	67.1	233.2	39,700	69.6	234.9	41,500				70
75	65.0	231.0	38,100	67.5	233.0	40,100				75
80	62.8	228.5	36,600	65.5	230.8	38,600	67.4	232.0	39,700	80
85	60.7	225.8	35,100	63.3	228.4	37,100	65.3	229.8	38,300	85
90	58.5	222.9	33,600	61.2	225.8	35,700	63.2	227.4	36,900	90
95	56.2	219.7	32,300	59.0	222.9	34,300	61.0	224.7	35,500	95
100	53.9	216.2	30,900	56.7	219.7	32,900	58.8	221.8	33,600	100
105	51.5	212.4	29,600	54.4	216.3	31,500	56.5	218.7	31,500	105
110	49.0	208.2	28,500	52.0	212.6	30,200	54.2	215.2	29,600	110
115	46.4	203.7	27,300	49.6	208.5	28,900	51.8	211.4	27,900	115
120	43.7	198.7	26,100	47.0	204.0	27,300	49.3	207.3	26,400	120
125	40.9	193.2	25,000	44.3	199.2	25,900	46.8	202.8	25,000	125
130	37.8	187.1	24,000	41.5	193.8	24,500	44.1	197.9	23,700	130
135	34.6	180.2	23,000	38.6	187.8	23,300	41.3	192.5	22,500	135
140	31.1	172.5	22,100	35.4	181.2	22,200	38.3	186.5	21,400	140
145	27.2	163.5	21,300	31.9	173.7	21,100	35.1	179.8	20,300	145
150	22.6	152.7	20,500	28.1	165.0	20,100	31.6	172.2	19,400	150
155	17.0	138.9	19,900	23.7	154.7	19,200	27.8	163.4	18,500	155
160	8.2	116.5	18,900	18.4	141.7	18,300	23.3	152.9	17,600	160
165				10.9	122.6	17,500	17.9	139.6	16,800	165
170							10.0	119.5	16,100	170
175										175
180										180
185										185
190										190

MLC165-1 S-2

ASME B30.5



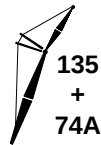
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100	62.1	224.2	31,700							100
105	59.9	221.4	29,700							105
110	57.7	218.4	27,900							110
115	55.4	215.1	26,300							115
120	53.0	211.5	24,800	56.4	214.2	23,300				120
125	50.6	207.6	23,500	54.1	210.7	22,000				125
130	48.1	203.3	22,300	51.7	206.9	20,900				130
135	45.4	198.6	21,100	49.2	202.8	19,800	52.7	205.4	18,500	135
140	42.7	193.4	20,100	46.7	198.3	18,800	50.3	201.4	17,500	140
145	39.8	187.7	19,100	44.0	193.3	17,900	47.7	197.1	16,700	145
150	36.7	181.4	18,200	41.2	187.9	17,000	45.1	192.3	15,800	150
155	33.4	174.2	17,300	38.2	181.9	16,200	42.3	187.1	15,100	155
160	29.7	166.1	16,500	35.0	175.1	15,400	39.4	181.3	14,300	160
165	25.6	156.6	15,800	31.5	167.5	14,700	36.3	174.9	13,700	165
170	20.8	144.9	15,100	27.6	158.7	14,000	33.0	167.6	13,000	170
175	14.5	129.2	14,400	23.1	148.1	13,400	29.3	159.3	12,400	175
180				17.7	134.7	12,800	25.1	149.6	11,900	180
185				9.5	114.0	12,200	20.1	137.6	11,300	185
190							13.5	121.0	10,800	190



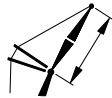
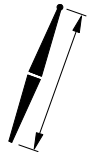
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
55	74.2	249.0	39,700 b							55
60	72.4	247.5	39,000							60
65	70.5	245.9	37,800							65
70	68.6	244.0	36,200	70.9	245.6	38,000				70
75	66.6	241.9	34,800	69.0	243.7	36,600				75
80	64.7	239.7	33,300	67.1	241.7	35,200				80
85	62.7	237.2	31,900	65.1	239.5	33,800	66.9	240.7	34,900	85
90	60.6	234.5	30,500	63.1	237.1	32,300	65.0	238.5	33,500	90
95	58.6	231.6	29,100	61.1	234.4	31,000	63.0	236.1	32,200	95
100	56.4	228.4	27,800	59.0	231.6	29,700	60.9	233.4	30,900	100
105	54.3	224.9	26,600	56.9	228.4	28,300	58.9	230.5	29,600	105
110	52.0	221.2	25,400	54.8	225.0	27,100	56.7	227.3	28,300	110
115	49.7	217.1	24,300	52.5	221.4	25,800	54.6	223.9	27,000	115
120	47.3	212.7	23,100	50.3	217.4	24,700	52.3	220.2	25,800	120
125	44.8	207.9	22,100	47.9	213.0	23,600	50.1	216.2	24,700	125
130	42.2	202.6	21,000	45.4	208.3	22,500	47.7	211.8	23,400	130
135	39.5	196.8	20,100	42.8	203.1	21,400	45.2	207.1	22,200	135
140	36.6	190.4	19,100	40.1	197.5	20,400	42.6	201.9	21,100	140
145	33.5	183.3	18,300	37.3	191.3	19,500	39.9	196.2	20,100	145
150	30.1	175.2	17,500	34.2	184.3	18,600	37.0	189.9	19,100	150
155	26.3	165.9	16,800	30.9	176.5	17,900	33.9	182.9	18,200	155
160	21.9	154.7	16,000	27.2	167.5	17,000	30.6	175.0	17,400	160
165	16.4	140.3	15,200	23.0	156.8	16,300	26.9	165.8	16,600	165
170	8.0	117.2	14,300	17.8	143.3	15,500	22.6	155.0	15,900	170
175				10.5	123.5	14,600	17.3	141.2	15,200	175
180							9.6	120.3	14,500	180
185										185
190										190
195										195
200										200

MLC165-1 S-2

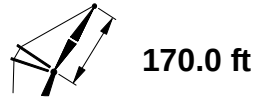
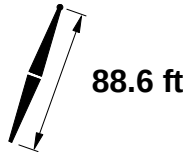
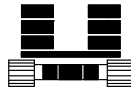
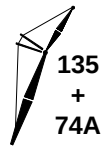
ASME B30.5



123,400 lb
+
45,100 lb



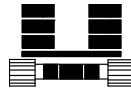
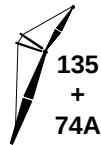
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105	62.0	232.9	29,400							105
110	59.9	230.1	27,600							110
115	57.8	227.1	26,000							115
120	55.7	223.8	24,500							120
125	53.5	220.2	23,200	56.7	222.8	21,700				125
130	51.2	216.4	22,000	54.5	219.4	20,500				130
135	48.9	212.2	20,800	52.3	215.7	19,500				135
140	46.5	207.6	19,800	50.0	211.7	18,500				140
145	43.9	202.7	18,800	47.6	207.3	17,500	50.9	210.2	16,300	145
150	41.3	197.2	17,900	45.1	202.5	16,700	48.6	206.0	15,500	150
155	38.5	191.3	17,000	42.5	197.3	15,900	46.1	201.4	14,700	155
160	35.5	184.6	16,300	39.8	191.6	15,100	43.6	196.4	14,000	160
165	32.3	177.2	15,500	36.9	185.3	14,400	40.9	190.9	13,400	165
170	28.8	168.7	14,800	33.8	178.2	13,800	38.1	184.8	12,700	170
175	24.8	158.8	14,100	30.5	170.3	13,100	35.1	178.1	12,100	175
180	20.1	146.7	13,500	26.7	161.1	12,500	31.9	170.5	11,600	180
185	14.0	130.4	12,900	22.4	150.1	12,000	28.3	161.9	11,000	185
190				17.1	136.2	11,400	24.3	151.8	10,500	190
195				9.2	114.8	10,900	19.5	139.3	10,000	195
200							13.1	122.2	9,600	200



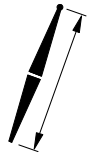
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
60	73.4	258.0	36,300							60
65	71.7	256.4	34,900							65
70	69.9	254.7	33,400							70
75	68.1	252.8	32,000	70.3	254.4	33,700				75
80	66.3	250.7	30,600	68.5	252.5	32,300				80
85	64.4	248.4	29,300	66.7	250.5	31,000				85
90	62.5	245.9	27,900	64.8	248.2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

MLC165-1 S-2

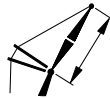
ASME B30.5



123,400 lb
+
45,100 lb

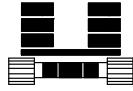
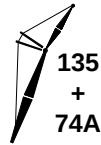


88.6 ft

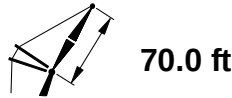
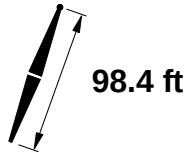


170.0 ft

	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	61.8	241.6	27,200							110
115	59.9	238.8	25,800							115
120	57.9	235.8	24,300							120
125	55.9	232.5	23,000							125
130	53.9	229.0	21,700	56.9	231.5	20,300				130
135	51.8	225.2	20,600	54.8	228.1	19,200				135
140	49.6	221.1	19,500	52.7	224.5	18,200				140
145	47.3	216.7	18,600	50.6	220.5	17,300				145
150	45.0	211.9	17,700	48.4	216.2	16,400	51.5	219.0	15,200	150
155	42.6	206.6	16,800	46.1	211.6	15,600	49.3	214.9	14,500	155
160	40.0	200.9	16,000	43.7	206.6	14,900	47.0	210.4	13,800	160
165	37.3	194.7	15,300	41.2	201.1	14,200	44.7	205.6	13,100	165
170	34.4	187.8	14,600	38.6	195.1	13,500	42.2	200.3	12,500	170
175	31.3	180.0	13,900	35.8	188.5	12,900	39.7	194.5	11,900	175
180	27.9	171.2	13,300	32.8	181.2	12,300	36.9	188.2	11,300	180
185	24.1	161.0	12,400	29.5	172.9	11,800	34.0	181.2	10,800	185
190	19.5	148.4	11,600	25.9	163.4	11,200	30.9	173.3	10,300	190
195	13.6	131.6	10,800	21.7	152.1	10,700	27.4	164.4	9,800	195
200				16.6	137.7	10,200	23.5	153.9	9,400	200
205				9.0	115.6	9,800	18.9	141.0	9,000	205
210							12.7	123.3	8,500	210



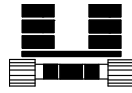
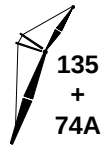
123,400 lb
+
45,100 lb



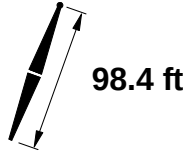
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
32	73.4	172.0	102,100 d							32
34	71.7	171.3	102,100 d							34
36	70.0	170.7	102,100 d							36
38	68.2	169.9	102,100 c							38
40	66.5	169.1	100,400 c							40
45	61.9	166.6	89,200 b	68.1	169.1	98,900 c				45
50	57.2	163.7	80,500 b	63.6	166.8	86,200 c				50
55	52.2	160.2	73,500 b	58.9	164.1	76,300 b	63.7	166.0	73,900 c	55
60	46.8	155.9	67,800	54.0	160.8	68,300 b	59.0	163.3	66,200 b	60
65	40.9	150.7	63,000	48.8	156.8	61,700 b	54.1	160.0	59,800 b	65
70	34.1	144.1	58,500	43.1	151.9	56,200	48.9	156.0	54,500 b	70
75	25.9	135.5	53,600	36.7	146.0	51,600	43.2	151.2	50,000	75
80	13.9	121.7	49,300	29.2	138.3	47,500	36.8	145.2	46,100	80
85				19.2	127.1	44,000	29.3	137.5	42,600	85
90							19.4	126.5	39,600	90
95										95
100										100
105										105
110										110
115										115

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ASME B30.5



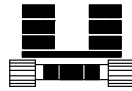
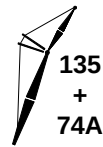
123,400 lb
+
45,100 lb



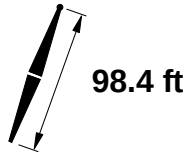
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
32										32
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65	62.2	163.1	56,700 c							65
70	57.4	160.2	51,600 b							70
75	52.4	156.7	47,300 b							75
80	47.1	152.4	43,600	55.6	156.2	41,200 b				80
85	41.2	147.3	40,400	50.5	152.4	38,200 b				85
90	34.5	140.8	37,600	44.9	147.9	35,500				90
95	26.4	132.3	35,000	38.8	142.3	33,100	48.1	147.1	31,200 b	95
100	14.7	119.0	32,700	31.7	135.2	31,000	42.4	142.1	29,200	100
105				22.7	125.5	29,000	35.9	136.0	27,400	105
110				6.4	106.2	27,200	28.2	128.0	25,700	110
115							17.6	116.2	24,200	115

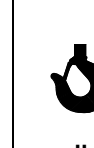
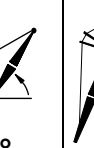
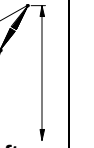
MLC165-1 S-2

ASME B30.5



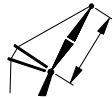
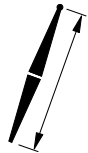
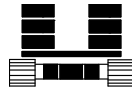
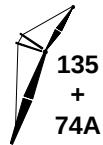
123,400 lb
+
45,100 lb



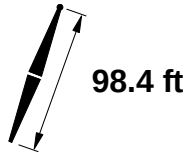
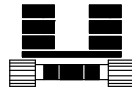
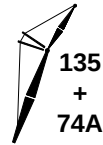
	87°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
34	74.1	181.8	93,600 d							34
36	72.6	181.2	93,600 d							36
38	71.1	180.6	93,500 c							38
40	69.6	179.8	93,400 c							40
45	65.7	177.8	89,600 b	71.0	179.7	95,400 c				45
50	61.7	175.3	80,500 b	67.1	177.8	85,900 c				50
55	57.5	172.4	73,300 b	63.2	175.5	76,000 b	67.2	177.0	73,600 c	55
60	53.2	168.9	67,500	59.1	172.7	68,000 b	63.2	174.7	65,900 b	60
65	48.6	164.8	62,500	54.8	169.5	61,500 b	59.1	171.9	59,500 b	65
70	43.6	160.0	58,400	50.3	165.7	56,000	54.9	168.7	54,200 b	70
75	38.1	154.2	53,500	45.5	161.1	51,300	50.4	164.8	49,700	75
80	31.9	147.1	49,300	40.2	155.7	47,300	45.5	160.3	45,800	80
85	24.2	137.7	45,700	34.3	149.2	43,800	40.3	155.0	42,400	85
90	13.0	122.9	42,400	27.3	140.8	40,800	34.4	148.4	39,500	90
95				17.9	128.7	38,000	27.4	140.0	36,800	95
100							18.1	128.1	34,400	100
105										105
110										110
115										115
120										120
125										125

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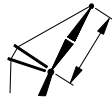
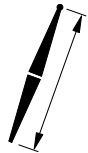
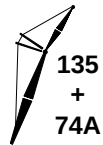
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70	61.9	171.8	51,300 b							70
75	57.7	168.8	47,000 b							75
80	53.4	165.4	43,300							80
85	48.8	161.4	40,100	56.2	164.9	37,800 b				85
90	43.9	156.6	37,300	51.7	161.2	35,100				90
95	38.4	150.9	34,800	47.0	156.9	32,800				95
100	32.2	143.8	32,600	41.9	151.8	30,700	49.7	156.0	28,800	100
105	24.7	134.6	30,500	36.2	145.7	28,800	44.9	151.4	27,000	105
110	13.8	120.3	28,700	29.6	137.9	27,100	39.5	145.9	25,400	110
115				21.2	127.4	25,500	33.5	139.1	23,900	115
120				6.0	106.7	23,900	26.3	130.4	22,600	120
125							16.5	117.7	21,300	125



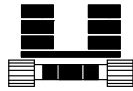
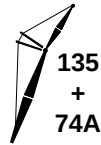
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
36	74.6	191.6	85,000 d							36
38	73.2	191.1	84,900 c							38
40	71.9	190.4	84,800 c							40
45	68.5	188.6	83,600 c							45
50	65.1	186.5	80,100 b	69.8	188.6	85,600 c				50
55	61.5	184.0	73,500 b	66.3	186.6	75,800 b				55
60	57.8	181.0	67,400	62.8	184.2	67,800 b	66.4	185.7	65,700 b	60
65	54.0	177.7	62,400	59.2	181.4	61,300 b	62.9	183.3	59,300 b	65
70	49.9	173.7	58,200	55.4	178.2	55,800	59.2	180.6	54,000 b	70
75	45.6	169.2	53,400	51.4	174.5	51,200	55.5	177.4	49,500	75
80	41.0	163.9	49,300	47.2	170.2	47,200	51.5	173.7	45,700	80
85	35.9	157.6	45,700	42.7	165.2	43,700	47.3	169.4	42,300	85
90	30.0	149.9	42,500	37.8	159.3	40,700	42.8	164.4	39,300	90
95	22.8	139.8	39,600	32.3	152.1	38,000	37.9	158.5	36,700	95
100	12.3	124.0	37,000	25.7	143.1	35,500	32.3	151.4	34,400	100
105				16.9	130.3	33,300	25.8	142.4	32,300	105
110							17.1	129.7	30,300	110
115										115
120										120
125										125
130										130
135										135

MLC165-1 S-2

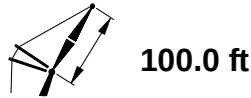
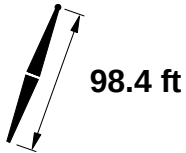
ASME B30.5



	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	46,800 b							75
80	58.0	177.5	43,100 b							80
85	54.2	174.2	39,900							85
90	50.1	170.3	37,100	56.6	173.5	34,900				90
95	45.8	165.8	34,600	52.7	170.0	32,600				95
100	41.2	160.5	32,400	48.6	165.9	30,500				100
105	36.1	154.3	30,400	44.2	161.1	28,600	50.9	164.8	26,800	105
110	30.3	146.6	28,600	39.4	155.5	26,900	46.7	160.5	25,200	110
115	23.2	136.7	27,000	34.1	148.8	25,400	42.2	155.4	23,800	115
120	13.0	121.4	25,400	27.9	140.5	23,900	37.2	149.3	22,400	120
125				20.0	129.2	22,600	31.5	142.0	21,200	125
130				5.6	107.3	21,300	24.8	132.7	20,100	130
135							15.5	119.1	19,000	135



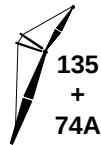
123,400 lb
+
45,100 lb



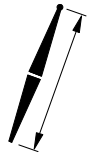
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
38	75.0	201.5	77,200 c							38
40	73.8	200.9	77,000 c							40
45	70.8	199.3	76,000 c							45
50	67.7	197.4	72,800 b							50
55	64.6	195.2	69,800 b	68.8	197.4	74,500 b				55
60	61.4	192.6	66,900	65.7	195.3	67,600 b				60
65	58.0	189.7	62,600	62.5	192.9	61,000 b	65.8	194.4	59,000 b	65
70	54.6	186.4	58,000	59.3	190.1	55,600	62.6	192.0	53,700 b	70
75	51.0	182.6	53,200	55.9	186.9	50,900	59.3	189.2	49,200	75
80	47.2	178.2	49,100	52.3	183.3	46,900	55.9	186.1	45,400	80
85	43.2	173.3	45,500	48.6	179.1	43,500	52.4	182.5	42,000	85
90	38.8	167.5	42,300	44.7	174.4	40,400	48.7	178.3	39,100	90
95	34.0	160.7	39,500	40.4	169.0	37,800	44.7	173.6	36,500	95
100	28.4	152.5	37,000	35.8	162.6	35,300	40.5	168.2	34,100	100
105	21.7	141.8	34,700	30.6	155.0	33,200	35.9	161.8	32,000	105
110	11.6	125.0	32,600	24.3	145.3	31,200	30.6	154.2	30,200	110
115				16.0	131.7	29,400	24.4	144.6	28,400	115
120							16.2	131.1	26,800	120
125										125
130										130
135										135
140										140
145										145

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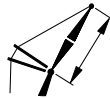
ASME B30.5



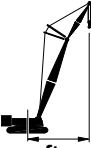
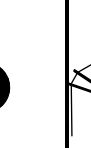
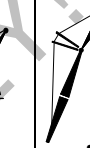
123,400 lb
+
45,100 lb



98.4 ft

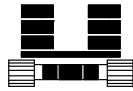
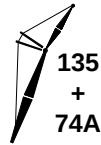


100.0 ft

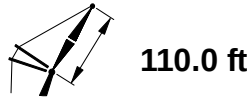
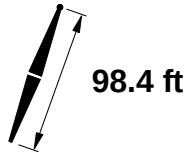
	75°			70°			65°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80	61.5	189.1	42,700							80
85	58.2	186.2	39,600							85
90	54.8	182.9	36,800							90
95	51.2	179.1	34,300	56.9	182.2	32,200				95
100	47.4	174.8	32,100	53.4	178.7	30,100				100
105	43.4	169.9	30,100	49.8	174.8	28,300				105
110	39.0	164.1	28,400	45.9	170.3	26,600	51.9	173.6	24,800	110
115	34.2	157.4	26,700	41.8	165.1	25,100	48.2	169.5	23,400	115
120	28.7	149.2	25,200	37.3	159.0	23,700	44.2	164.7	22,100	120
125	22.0	138.7	23,900	32.3	151.8	22,400	39.9	159.1	20,900	125
130	12.3	122.5	22,600	26.4	142.9	21,200	35.2	152.6	19,800	130
135				19.0	130.9	20,100	29.9	144.8	18,700	135
140				5.3	107.7	19,000	23.5	134.8	17,800	140
145							14.7	120.4	16,800	145

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ASME B30.5



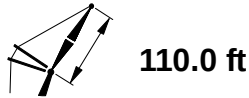
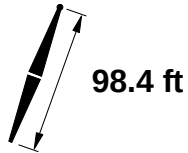
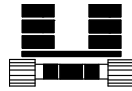
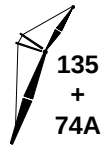
123,400 lb
+
45,100 lb



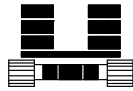
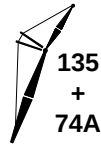
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
45	72.6	209.8	70,400 c							45
50	69.8	208.1	68,000 b							50
55	67.0	206.1	65,700 b	70.8	208.0	69,100 b				55
60	64.2	203.9	63,400	68.1	206.1	67,000 b				60
65	61.2	201.3	61,300	65.2	204.0	60,900				65
70	58.2	198.4	58,000	62.3	201.5	55,500	65.3	203.1	53,600 b	70
75	55.1	195.1	53,200	59.3	198.7	50,900	62.4	200.7	49,200	75
80	51.9	191.4	49,000	56.3	195.6	46,900	59.4	197.9	45,300	80
85	48.5	187.2	45,400	53.1	192.0	43,400	56.3	194.8	42,000	85
90	44.9	182.5	42,300	49.7	188.0	40,400	53.1	191.2	39,000	90
95	41.1	177.1	39,500	46.2	183.5	37,700	49.8	187.2	36,400	95
100	36.9	170.9	37,000	42.5	178.4	35,300	46.3	182.7	34,100	100
105	32.3	163.7	34,700	38.5	172.6	33,200	42.6	177.6	32,000	105
110	27.1	154.9	32,700	34.1	165.7	31,300	38.5	171.8	30,200	110
115	20.6	143.6	30,900	29.1	157.6	29,500	34.2	165.0	28,500	115
120	11.1	126.0	29,100	23.2	147.4	27,900	29.2	156.9	26,900	120
125				15.3	133.1	26,400	23.3	146.7	25,500	125
130							15.4	132.5	24,100	130
135										135
140										140
145										145
150										150
155										155

MLC165-1 S-2

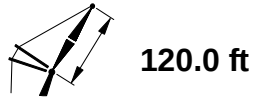
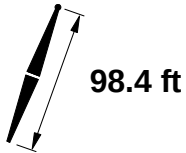
ASME B30.5



	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	61.4	197.7	39,500							85
90	58.4	194.8	36,700							90
95	55.3	191.6	34,300							95
100	52.0	187.9	32,100	57.2	190.9	30,100				100
105	48.6	183.7	30,100	54.1	187.5	28,200				105
110	45.1	179.1	28,300	50.8	183.6	26,600				110
115	41.3	173.7	26,700	47.3	179.3	25,000	52.7	182.4	23,400	115
120	37.1	167.6	25,300	43.7	174.4	23,600	49.3	178.4	22,100	120
125	32.6	160.4	23,900	39.8	168.8	22,400	45.8	173.8	20,900	125
130	27.4	151.7	22,700	35.5	162.3	21,200	42.0	168.6	19,800	130
135	21.0	140.6	21,500	30.7	154.6	20,100	38.0	162.6	18,700	135
140	11.8	123.6	20,400	25.2	145.2	19,100	33.5	155.7	17,800	140
145				18.1	132.6	18,100	28.5	147.4	16,900	145
150				5.1	108.2	17,200	22.4	136.9	16,100	150
155							14.1	121.7	15,300	155



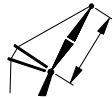
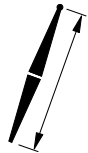
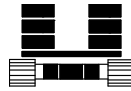
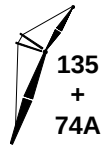
123,400 lb
+
45,100 lb



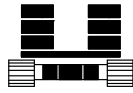
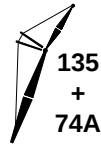
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
45	74.1	220.3	64,500 c							45
50	71.6	218.7	62,800 b							50
55	69.0	216.9	60,600 b							55
60	66.5	214.9	58,400	70.0	216.9	61,600 b				60
65	63.8	212.6	56,300	67.4	214.9	59,600				65
70	61.1	210.0	54,300	64.8	212.7	55,200	67.4	214.1	53,300	70
75	58.4	207.0	52,400	62.1	210.2	50,600	64.8	211.8	48,800	75
80	55.5	203.8	48,800	59.4	207.4	46,600	62.2	209.4	45,000	80
85	52.6	200.2	45,200	56.6	204.3	43,200	59.4	206.6	41,700	85
90	49.5	196.1	42,000	53.7	200.8	40,100	56.6	203.4	38,700	90
95	46.3	191.6	39,200	50.6	196.9	37,500	53.7	200.0	36,100	95
100	42.9	186.5	36,800	47.5	192.6	35,100	50.7	196.1	33,800	100
105	39.2	180.8	34,500	44.1	187.7	32,900	47.5	191.7	31,800	105
110	35.3	174.2	32,500	40.6	182.2	31,000	44.2	186.9	29,900	110
115	30.9	166.5	30,700	36.8	176.0	29,300	40.7	181.4	28,200	115
120	25.9	157.3	29,000	32.6	168.7	27,700	36.8	175.2	26,600	120
125	19.7	145.4	27,500	27.8	160.2	26,200	32.7	168.0	25,200	125
130	10.6	127.0	26,000	22.2	149.4	24,800	27.9	159.4	23,900	130
135				14.6	134.4	23,500	22.3	148.7	22,700	135
140							14.8	133.8	21,600	140
145										145
150										150
155										155
160										160
165										165

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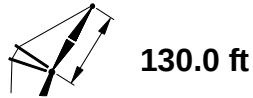
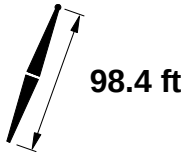
ASME B30.5



	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										85
90	61.3	206.4	36,400							90
95	58.5	203.5	33,900							95
100	55.7	200.3	31,800							100
105	52.7	196.7	29,800	57.5	199.6	27,900				105
110	49.7	192.6	28,000	54.6	196.2	26,200				110
115	46.4	188.1	26,400	51.6	192.4	24,700				115
120	43.1	183.1	25,000	48.5	188.3	23,300				120
125	39.4	177.4	23,600	45.2	183.6	22,000	50.3	187.2	20,500	125
130	35.5	170.9	22,400	41.7	178.3	20,900	47.1	182.8	19,400	130
135	31.2	163.3	21,300	38.0	172.3	19,800	43.7	177.9	18,400	135
140	26.2	154.1	20,200	33.9	165.4	18,800	40.2	172.3	17,500	140
145	20.1	142.4	19,200	29.4	157.3	17,900	36.3	166.0	16,600	145
150	11.3	124.6	18,200	24.1	147.4	17,000	32.1	158.6	15,800	150
155				17.3	134.1	16,200	27.2	149.9	15,000	155
160				4.9	108.6	15,300	21.4	138.8	14,300	160
165							13.5	122.9	13,600	165



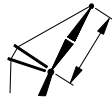
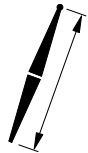
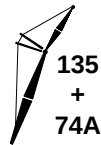
123,400 lb
+
45,100 lb



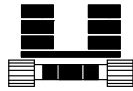
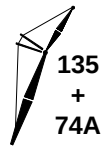
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
50	73.0	229.2	48,700 b							50
55	70.7	227.6	47,700 b							55
60	68.4	225.7	46,900							60
65	66.0	223.6	46,100	69.2	225.7	47,700				65
70	63.5	221.2	45,300	66.9	223.6	47,000				70
75	61.0	218.6	44,500	64.4	221.4	46,300	66.9	222.8	46,800	75
80	58.5	215.7	43,300	62.0	218.9	45,800	64.5	220.5	44,800	80
85	55.9	212.5	41,800	59.4	216.1	43,000	62.0	218.0	41,400	85
90	53.2	208.9	40,300	56.8	212.9	39,900	59.5	215.2	38,500	90
95	50.4	205.0	38,800	54.2	209.5	37,300	56.9	212.1	35,900	95
100	47.4	200.6	36,600	51.4	205.7	34,900	54.2	208.7	33,600	100
105	44.4	195.8	34,400	48.5	201.5	32,800	51.4	204.9	31,600	105
110	41.1	190.4	32,400	45.5	196.8	30,800	48.6	200.7	29,700	110
115	37.6	184.3	30,500	42.3	191.7	29,100	45.6	196.0	28,000	115
120	33.9	177.3	28,900	38.9	185.8	27,500	42.4	190.9	26,500	120
125	29.7	169.2	27,300	35.3	179.2	26,000	39.0	185.0	25,000	125
130	24.9	159.5	25,900	31.3	171.6	24,700	35.4	178.5	23,800	130
135	19.0	147.1	24,600	26.7	162.6	23,400	31.3	170.9	22,600	135
140	10.2	127.9	23,400	21.3	151.4	22,300	26.8	161.9	21,400	140
145				14.0	135.7	21,200	21.4	150.7	20,400	145
150							14.2	135.1	19,400	150
155										155
160										160
165										165
170										170
175										175

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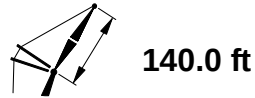
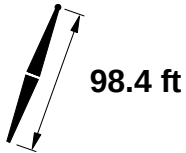
ASME B30.5

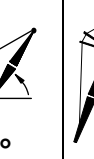


	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95	61.2	215.1	33,700							95
100	58.6	212.2	31,500							100
105	56.0	209.0	29,600							105
110	53.3	205.4	27,800	57.7	208.2	26,000				110
115	50.5	201.5	26,200	55.0	204.9	24,400				115
120	47.6	197.2	24,800	52.3	201.2	23,100				120
125	44.5	192.3	23,400	49.4	197.2	21,800				125
130	41.3	187.0	22,200	46.5	192.6	20,700	51.1	196.1	19,200	130
135	37.8	180.9	21,100	43.3	187.6	19,600	48.2	191.8	18,200	135
140	34.1	174.0	20,000	40.0	182.0	18,600	45.1	187.1	17,200	140
145	29.9	166.0	19,000	36.5	175.7	17,700	41.9	181.8	16,400	145
150	25.1	156.4	18,100	32.6	168.4	16,800	38.5	175.9	15,600	150
155	19.3	144.2	17,300	28.2	159.9	16,000	34.8	169.2	14,800	155
160	10.8	125.6	16,400	23.1	149.5	15,300	30.8	161.4	14,100	160
165				16.6	135.6	14,500	26.1	152.2	13,400	165
170				4.7	109.0	13,800	20.6	140.6	12,800	170
175							12.9	124.0	12,200	175



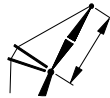
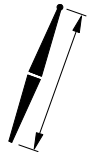
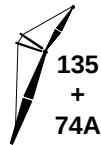
123,400 lb
+
45,100 lb



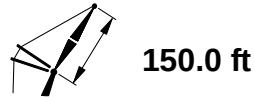
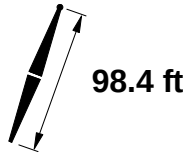
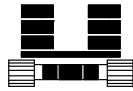
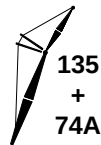
	87°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
50	74.3	239.6	45,600 b							50
55	72.1	238.1	44,800 b							55
60	70.0	236.4	44,000							60
65	67.8	234.5	43,300	70.8	236.3	44,500				65
70	65.6	232.3	42,500	68.6	234.5	43,900				70
75	63.3	229.9	41,200	66.4	232.4	43,300				75
80	61.0	227.3	39,700	64.1	230.1	42,100	66.4	231.5	43,000	80
85	58.6	224.4	38,200	61.8	227.5	40,600	64.2	229.2	41,100	85
90	56.2	221.2	36,700	59.5	224.7	39,100	61.9	226.7	38,200	90
95	53.7	217.7	35,200	57.1	221.6	37,000	59.5	223.9	35,600	95
100	51.1	213.8	33,900	54.6	218.2	34,600	57.1	220.8	33,300	100
105	48.4	209.6	32,600	52.0	214.5	32,500	54.6	217.4	31,300	105
110	45.6	204.9	31,300	49.4	210.4	30,600	52.1	213.7	29,400	110
115	42.7	199.8	30,200	46.6	205.9	28,800	49.4	209.6	27,700	115
120	39.6	194.0	28,600	43.8	200.9	27,200	46.7	205.1	26,200	120
125	36.2	187.6	27,100	40.7	195.4	25,800	43.8	200.2	24,800	125
130	32.6	180.3	25,700	37.5	189.3	24,400	40.8	194.7	23,500	130
135	28.6	171.8	24,400	34.0	182.3	23,200	37.5	188.5	22,300	135
140	24.0	161.7	23,100	30.1	174.3	22,100	34.0	181.6	21,200	140
145	18.3	148.8	22,000	25.7	164.9	21,000	30.2	173.6	20,200	145
150	9.8	128.8	21,000	20.5	153.2	20,000	25.8	164.2	19,200	150
155				13.5	136.9	19,000	20.6	152.5	18,300	155
160							13.7	136.3	17,400	160
165										165
170										170
175										175
180										180
185										185

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ASME B30.5



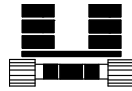
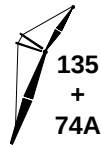
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100	61.1	223.7	31,200							100
105	58.7	220.8	29,200							105
110	56.3	217.7	27,500							110
115	53.8	214.2	25,900	57.8	216.9	24,100				115
120	51.2	210.3	24,400	55.4	213.6	22,700				120
125	48.5	206.1	23,100	52.8	210.0	21,500				125
130	45.8	201.5	21,900	50.2	206.0	20,300				130
135	42.8	196.3	20,800	47.5	201.7	19,300	51.7	204.9	17,800	135
140	39.7	190.6	19,700	44.7	196.8	18,300	49.1	200.7	16,900	140
145	36.4	184.3	18,800	41.7	191.5	17,400	46.3	196.2	16,000	145
150	32.8	177.0	17,800	38.5	185.6	16,500	43.4	191.2	15,200	150
155	28.8	168.6	17,000	35.1	178.9	15,700	40.3	185.6	14,500	155
160	24.2	158.6	16,200	31.4	171.3	15,000	37.1	179.3	13,800	160
165	18.6	145.8	15,400	27.2	162.3	14,300	33.5	172.3	13,100	165
170	10.4	126.5	14,700	22.3	151.5	13,600	29.6	164.1	12,500	170
175				16.0	137.0	13,000	25.2	154.5	11,900	175
180				4.5	109.4	12,300	19.8	142.4	11,300	180
185							12.5	125.1	10,800	185



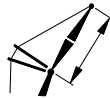
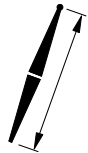
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
55	73.4	248.6	42,000 b							55
60	71.4	247.0	41,300							60
65	69.3	245.2	40,600							65
70	67.3	243.2	39,500	70.1	245.1	40,900				70
75	65.2	241.0	38,000	68.0	243.2	40,100				75
80	63.1	238.6	36,500	66.0	241.1	38,700				80
85	60.9	235.9	35,100	63.9	238.8	37,300	66.0	240.3	38,500	85
90	58.7	233.0	33,700	61.7	236.2	35,900	63.9	237.9	37,200	90
95	56.4	229.9	32,300	59.5	233.4	34,500	61.7	235.4	35,500	95
100	54.1	226.4	31,000	57.3	230.3	33,100	59.5	232.5	33,200	100
105	51.7	222.6	29,700	55.0	226.9	31,700	57.3	229.5	31,200	105
110	49.2	218.5	28,500	52.6	223.3	30,500	55.0	226.1	29,300	110
115	46.7	214.0	27,300	50.2	219.3	28,700	52.6	222.5	27,600	115
120	44.0	209.0	26,200	47.6	214.9	27,100	50.2	218.5	26,100	120
125	41.2	203.6	25,100	45.0	210.1	25,700	47.7	214.1	24,700	125
130	38.2	197.6	24,100	42.2	204.9	24,400	45.0	209.3	23,400	130
135	35.0	190.8	23,200	39.3	199.1	23,100	42.3	204.1	22,200	135
140	31.5	183.2	22,300	36.2	192.6	22,000	39.3	198.3	21,100	140
145	27.6	174.3	21,400	32.8	185.3	20,900	36.2	191.8	20,100	145
150	23.1	163.8	20,600	29.1	177.0	20,000	32.8	184.6	19,100	150
155	17.6	150.3	19,700	24.9	167.1	19,000	29.1	176.2	18,300	155
160	9.5	129.6	18,900	19.8	155.0	18,200	24.9	166.4	17,400	160
165				13.1	138.0	17,300	19.9	154.3	16,600	165
170							13.2	137.5	15,900	170
175										175
180										180
185										185
190										190
195										195

MLC165-1 S-2

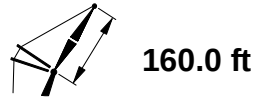
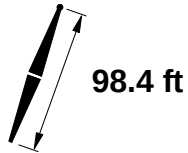
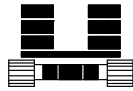
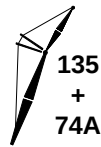
ASME B30.5



123,400 lb
+
45,100 lb



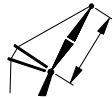
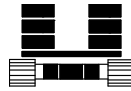
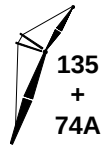
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105	61.0	232.4	29,100							105
110	58.8	229.5	27,400							110
115	56.5	226.3	25,800							115
120	54.2	222.9	24,300	58.0	225.6	22,600				120
125	51.8	219.1	23,000	55.7	222.3	21,400				125
130	49.4	215.0	21,800	53.3	218.7	20,200				130
135	46.8	210.5	20,700	50.9	214.9	19,200				135
140	44.1	205.6	19,600	48.4	210.6	18,200	52.3	213.7	16,800	140
145	41.3	200.2	18,700	45.8	206.0	17,300	49.9	209.6	15,900	145
150	38.3	194.2	17,800	43.1	200.9	16,400	47.3	205.2	15,100	150
155	35.1	187.5	16,900	40.2	195.2	15,700	44.7	200.4	14,400	155
160	31.7	179.9	16,200	37.2	189.0	14,900	41.9	195.1	13,700	160
165	27.8	171.1	15,400	33.9	182.0	14,200	38.9	189.2	13,000	165
170	23.4	160.7	14,700	30.3	174.0	13,600	35.8	182.6	12,400	170
175	18.0	147.4	14,100	26.2	164.7	12,900	32.4	175.2	11,900	175
180	10.1	127.4	13,400	21.5	153.4	12,400	28.6	166.7	11,300	180
185				15.5	138.4	11,800	24.3	156.7	10,800	185
190				4.4	109.8	11,200	19.1	144.1	10,300	190
195							12.0	126.2	9,800	195



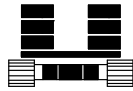
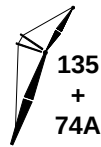
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
55	74.4	259.0	39,100 b							55
60	72.6	257.5	38,400							60
65	70.7	255.9	37,600							65
70	68.8	254.0	36,100							70
75	66.8	252.0	34,700	69.5	254.0	36,600				75
80	64.9	249.7	33,200	67.5	252.0	35,200				80
85	62.9	247.3	31,900	65.6	249.8	33,800	67.6	251.1	35,000	85
90	60.9	244.6	30,500	63.6	247.4	32,500	65.6	249.0	33,800	90
95	58.8	241.7	29,200	61.6	244.9	31,200	63.6	246.6	32,500	95
100	56.7	238.5	27,900	59.5	242.0	29,900	61.6	244.0	31,200	100
105	54.5	235.1	26,700	57.4	239.0	28,600	59.6	241.2	29,900	105
110	52.3	231.4	25,500	55.3	235.6	27,300	57.5	238.1	28,600	110
115	50.0	227.4	24,300	53.1	232.0	26,100	55.3	234.8	27,300	115
120	47.6	223.0	23,200	50.8	228.1	24,900	53.1	231.2	25,800	120
125	45.1	218.2	22,200	48.5	223.9	23,900	50.8	227.3	24,400	125
130	42.5	213.0	21,200	46.0	219.2	22,700	48.5	223.1	23,100	130
135	39.8	207.3	20,200	43.5	214.2	21,700	46.1	218.4	21,900	135
140	36.9	200.9	19,300	40.8	208.7	20,700	43.5	213.4	20,800	140
145	33.8	193.9	18,400	38.0	202.6	19,800	40.9	207.9	19,800	145
150	30.4	185.9	17,600	35.0	195.8	18,900	38.0	201.8	18,900	150
155	26.7	176.8	16,800	31.7	188.2	18,000	35.0	195.1	18,000	155
160	22.4	165.8	16,100	28.1	179.5	17,300	31.8	187.5	17,200	160
165	17.1	151.9	15,300	24.1	169.3	16,500	28.2	178.8	16,400	165
170	9.2	130.4	14,400	19.2	156.7	15,800	24.1	168.6	15,600	170
175				12.7	139.2	14,800	19.3	156.0	14,900	175
180							12.8	138.6	14,300	180
185										185
190										190
195										195
200										200
205										205

MLC165-1 S-2

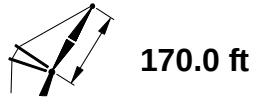
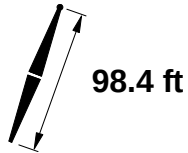
ASME B30.5



	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	63.0	243.7	28,800							105
110	61.0	241.1	27,000							110
115	58.9	238.2	25,500							115
120	56.8	235.0	24,000							120
125	54.6	231.6	22,700							125
130	52.4	227.9	21,500	56.0	231.0	19,900				130
135	50.1	223.9	20,400	53.8	227.5	18,800				135
140	47.7	219.5	19,300	51.5	223.7	17,900				140
145	45.2	214.8	18,400	49.2	219.5	17,000	52.8	222.4	15,600	145
150	42.6	209.6	17,500	46.8	215.0	16,100	50.5	218.5	14,800	150
155	39.9	203.9	16,600	44.3	210.1	15,300	48.2	214.2	14,000	155
160	37.1	197.6	15,900	41.6	204.7	14,600	45.7	209.5	13,400	160
165	34.0	190.6	15,100	38.9	198.8	13,900	43.2	204.4	12,700	165
170	30.6	182.7	14,400	35.9	192.3	13,300	40.5	198.8	12,100	170
175	26.9	173.6	13,800	32.8	185.0	12,700	37.6	192.7	11,500	175
180	22.6	162.7	13,200	29.3	176.7	12,100	34.6	185.8	11,000	180
185	17.4	149.0	12,600	25.4	167.0	11,500	31.3	178.1	10,500	185
190	9.7	128.2	12,000	20.8	155.3	11,000	27.7	169.2	10,000	190
195				15.0	139.8	10,500	23.5	158.8	9,500	195
200				4.2	110.2	10,000	18.5	145.8	9,100	200
205							11.6	127.2	8,600	205



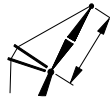
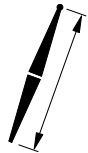
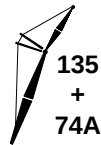
123,400 lb
+
45,100 lb



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

MLC165-1 S-2

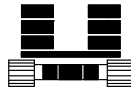
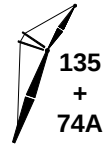
ASME B30.5



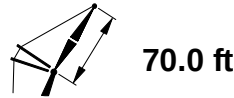
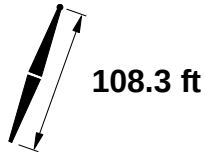
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110	62.8	252.4	26,800							110
115	60.9	249.7	25,200							115
120	59.0	246.8	23,800							120
125	57.0	243.7	22,500							125
130	54.9	240.3	21,200							130
135	52.8	236.7	20,100	56.2	239.7	18,600				135
140	50.7	232.7	19,100	54.2	236.2	17,600				140
145	48.5	228.5	18,100	52.0	232.5	16,700				145
150	46.2	223.9	17,300	49.9	228.4	15,900				150
155	43.8	218.9	16,400	47.6	224.0	15,100	51.1	227.3	13,800	155
160	41.3	213.4	15,700	45.3	219.3	14,400	48.9	223.1	13,100	160
165	38.7	207.5	14,900	42.9	214.1	13,700	46.6	218.6	12,500	165
170	35.9	200.9	14,200	40.4	208.5	13,000	44.3	213.6	11,900	170
175	32.9	193.6	13,600	37.7	202.3	12,400	41.8	208.3	11,300	175
180	29.7	185.4	13,000	34.8	195.5	11,900	39.2	202.4	10,800	180
185	26.1	175.9	12,400	31.8	187.9	11,300	36.5	196.0	10,300	185
190	21.9	164.7	11,900	28.4	179.2	10,800	33.5	188.9	9,800	190
195	16.9	150.5	11,200	24.6	169.2	10,300	30.4	180.8	9,300	195
200	9.4	129.1	10,500	20.2	157.1	9,800	26.8	171.7	8,900	200
205				14.5	141.1	9,400	22.8	160.9	8,500	205
210				4.1	110.6	8,900	18.0	147.4	8,000	210
215							11.3	128.2	7,600	215

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ASME B30.5



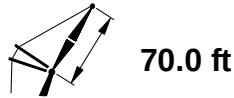
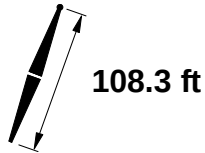
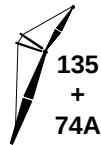
123,400 lb
+
45,100 lb



	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	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	97,900 c							40
45	62.4	176.7	87,200 c	69.2	179.3	98,200 c				45
50	57.7	173.9	78,900 b	64.7	177.2	85,600 c				50
55	52.7	170.4	72,300 b	60.1	174.6	75,800 b	65.2	176.5	73,200 c	55
60	47.4	166.2	66,800	55.2	171.4	67,800 b	60.6	173.9	65,500 b	60
65	41.5	161.1	62,200	50.1	167.6	61,300 b	55.8	170.8	59,200 b	65
70	34.9	154.7	58,300	44.5	163.0	55,900	50.7	167.1	53,900 b	70
75	26.9	146.4	53,500	38.3	157.3	51,200	45.2	162.6	49,500	75
80	15.6	133.5	49,300	31.1	150.1	47,200	39.1	157.1	45,600	80
85				22.0	140.1	43,700	32.1	150.1	42,200	85
90				2.8	117.3	40,400	23.2	140.5	39,200	90
95							8.0	122.6	36,500	95
100										100
105										105
110										110
115										115
120										120

MLC165-1 S-2

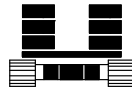
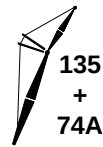
ASME B30.5



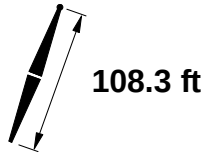
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
32										32
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70	59.9	171.2	50,800 b							70
75	55.0	168.0	46,500 b							75
80	49.8	164.2	42,900 b							80
85	44.2	159.5	39,700	53.9	164.3	37,300 b				85
90	38.0	153.8	36,900	48.7	160.3	34,600 b				90
95	30.8	146.5	34,500	43.0	155.4	32,300	52.6	159.5	30,200 b	95
100	21.5	136.3	32,200	36.6	149.4	30,200	47.2	155.2	28,200	100
105				29.0	141.7	28,400	41.4	150.1	26,500	105
110				19.0	130.4	26,600	34.7	143.7	24,900	110
115							26.7	135.3	23,400	115
120							15.2	122.2	22,100	120

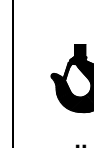
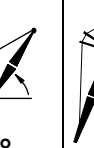
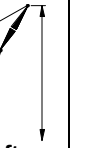
MLC165-1 S-2

ASME B30.5



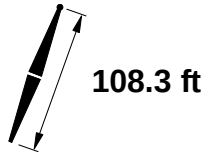
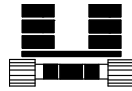
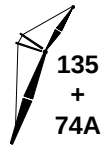
123,400 lb
+
45,100 lb



	87°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	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	87,300 c							45
50	62.1	185.4	78,700 b	68.0	188.1	85,300 c				50
55	58.0	182.5	71,900 b	64.1	185.9	75,500 b				55
60	53.6	179.1	66,200	60.1	183.2	67,600 b	64.6	185.2	65,200 b	60
65	49.1	175.1	61,600	55.8	180.1	61,100 b	60.6	182.6	58,900 b	65
70	44.1	170.4	57,600	51.4	176.4	55,600	56.4	179.5	53,600 b	70
75	38.7	164.7	53,400	46.7	172.1	51,000	51.9	175.9	49,200	75
80	32.6	157.8	49,200	41.5	166.9	47,000	47.2	171.7	45,300	80
85	25.1	148.7	45,600	35.8	160.6	43,500	42.1	166.6	42,000	85
90	14.6	134.8	42,300	29.1	152.8	40,500	36.5	160.5	39,100	90
95				20.5	142.0	37,700	29.9	152.9	36,400	95
100				2.6	117.6	35,200	21.7	142.5	34,100	100
105							7.4	123.3	31,900	105
110										110
115										115
120										120
125										125
130										130

MLC165-1 S-2

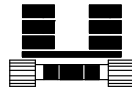
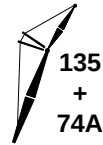
ASME B30.5



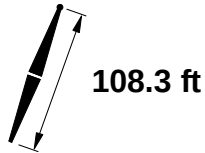
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75	59.9	179.9	46,200 b							75
80	55.6	176.7	42,600 b							80
85	51.2	173.0	39,400							85
90	46.4	168.7	36,600	54.7	173.0	34,300 b				90
95	41.3	163.4	34,200	50.2	169.1	32,000				95
100	35.5	157.1	32,000	45.4	164.6	29,900				100
105	28.7	149.2	30,000	40.1	159.2	28,100	48.9	164.2	26,100	105
110	20.1	138.1	28,200	34.2	152.6	26,400	44.0	159.4	24,600	110
115				27.1	144.1	24,800	38.6	153.8	23,100	115
120				17.7	132.0	23,400	32.4	146.7	21,800	120
125							24.9	137.6	20,600	125
130							14.2	123.5	19,500	130

MLC165-1 S-2

ASME B30.5



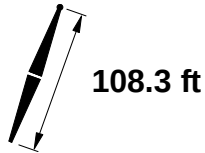
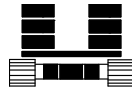
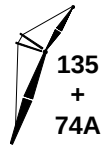
123,400 lb
+
45,100 lb

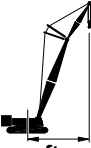
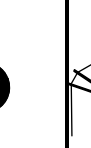
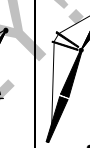


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
36	74.9	201.6	81,400 d							36
38	73.6	201.0	81,300 c							38
40	72.3	200.4	81,200 c							40
45	68.9	198.7	80,600 c							45
50	65.4	196.6	77,400 b	70.6	198.8	82,500 c				50
55	61.9	194.1	72,000 b	67.2	196.8	75,300 b				55
60	58.2	191.2	66,200 b	63.7	194.6	67,400 b	67.6	196.1	65,000 b	60
65	54.4	187.9	61,400	60.1	191.9	60,900 b	64.1	193.9	58,700 b	65
70	50.4	184.0	57,300	56.3	188.8	55,500	60.5	191.3	53,500 b	70
75	46.1	179.5	53,300	52.4	185.2	50,800	56.8	188.2	49,000	75
80	41.5	174.3	49,200	48.3	181.0	46,900	52.9	184.7	45,200	80
85	36.4	168.1	45,500	43.8	176.2	43,400	48.8	180.6	41,800	85
90	30.7	160.6	42,400	39.0	170.6	40,400	44.4	175.9	38,900	90
95	23.7	150.8	39,500	33.7	163.8	37,700	39.6	170.3	36,300	95
100	13.7	136.1	37,000	27.4	155.3	35,300	34.3	163.7	34,000	100
105				19.4	143.7	33,100	28.2	155.4	31,900	105
110				2.5	117.8	31,000	20.5	144.4	30,000	110
115							7.0	123.9	28,200	115
120										120
125										125
130										130
135										135
140										140

MLC165-1 S-2

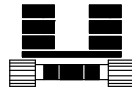
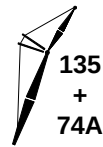
ASME B30.5



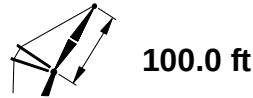
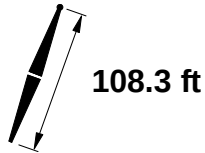
	75°			70°			65°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85	59.9	188.6	42,300 b							85
90	56.1	185.4	39,200							90
95	52.2	181.8	36,500							95
100	48.1	177.6	34,000	55.3	181.7	31,700				100
	43.6	172.8	31,900	51.4	178.0	29,700				
105	38.8	167.1	29,900	47.2	173.7	27,900				105
110	33.4	160.2	28,100	42.7	168.6	26,200	50.3	173.1	24,300	110
115	27.1	151.6	26,500	37.7	162.7	24,700	46.0	168.6	22,900	115
120	18.9	139.8	25,000	32.2	155.6	23,300	41.4	163.4	21,700	120
125				25.6	146.5	22,100	36.3	157.1	20,500	125
130				16.7	133.5	20,900	30.5	149.6	19,400	130
135							23.5	139.7	18,300	135
140							13.4	124.7	17,400	140

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ASME B30.5



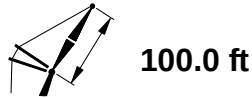
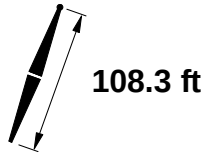
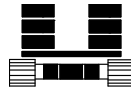
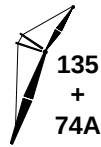
123,400 lb
+
45,100 lb



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
40	74.1	210.9	74,500 c							40
45	71.1	209.3	74,100 c							45
50	68.0	207.4	72,200 b							50
55	64.9	205.3	69,300 b	69.6	207.6	74,200 b				55
60	61.7	202.7	66,200	66.5	205.6	67,100 b				60
65	58.4	199.9	61,200	63.3	203.2	60,600 b	66.8	204.9	58,400 b	65
70	55.0	196.6	57,100	60.1	200.5	55,200	63.7	202.6	53,100 b	70
75	51.4	192.8	53,100	56.7	197.5	50,600	60.4	199.9	48,700	75
80	47.6	188.5	48,900	53.2	194.0	46,600	57.1	196.9	44,900	80
85	43.6	183.7	45,300	49.5	190.0	43,200	53.6	193.4	41,500	85
90	39.3	178.0	42,200	45.6	185.4	40,100	50.0	189.5	38,600	90
95	34.5	171.3	39,400	41.5	180.1	37,500	46.1	185.0	36,000	95
100	29.0	163.2	36,900	37.0	174.0	35,100	42.0	179.8	33,700	100
105	22.4	152.9	34,600	31.9	166.7	32,900	37.5	173.8	31,700	105
110	13.0	137.2	32,500	26.0	157.7	31,000	32.5	166.7	29,800	110
115				18.4	145.4	29,200	26.7	157.9	28,100	115
120				2.4	118.0	27,500	19.4	146.1	26,500	120
125							6.7	124.5	25,000	125
130										130
135										135
140										140
145										145
150										150

MLC165-1 S-2

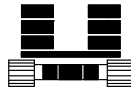
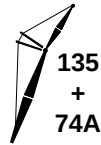
ASME B30.5



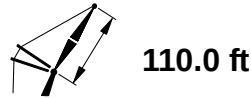
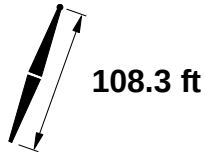
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85	59.9	197.2	38,800							85
90	56.5	194.1	36,100							90
95	53.0	190.6	33,700							95
100	49.4	186.6	31,500	55.8	190.4	29,300				100
105	45.5	182.0	29,600	52.3	186.8	27,500				105
110	41.3	176.7	27,800	48.6	182.6	25,900				110
115	36.7	170.5	26,200	44.6	177.9	24,400	51.3	181.9	22,500	115
120	31.6	163.1	24,800	40.4	172.4	23,000	47.5	177.6	21,300	120
125	25.7	154.0	23,400	35.7	166.0	21,800	43.5	172.7	20,100	125
130	17.9	141.5	22,200	30.5	158.4	20,600	39.2	167.0	19,000	130
135				24.2	148.7	19,500	34.4	160.3	18,000	135
140				15.9	135.0	18,500	28.9	152.2	17,100	140
145							22.3	141.8	16,200	145
150							12.7	125.9	15,400	150

MLC165-1 S-2

ASME B30.5



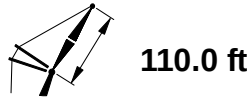
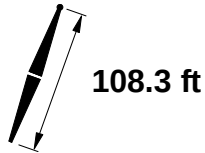
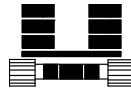
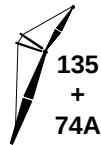
123,400 lb
+
45,100 lb



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
45	72.9	219.8	68,300 c							45
50	70.1	218.1	67,100 b							50
55	67.3	216.2	64,900 b							55
60	64.5	214.0	62,800	68.7	216.4	66,500 b				60
65	61.5	211.4	60,700	65.9	214.3	60,500 b				65
70	58.5	208.5	57,200	63.0	211.9	55,100	66.2	213.6	53,100 b	70
75	55.4	205.3	53,000	60.1	209.2	50,500	63.4	211.3	48,600	75
80	52.2	201.6	48,900	57.0	206.1	46,600	60.4	208.6	44,800	80
85	48.8	197.5	45,300	53.8	202.7	43,100	57.4	205.6	41,500	85
90	45.3	192.8	42,200	50.5	198.8	40,100	54.2	202.2	38,600	90
95	41.5	187.5	39,400	47.1	194.4	37,500	50.9	198.3	36,000	95
100	37.4	181.5	36,900	43.4	189.5	35,100	47.5	194.0	33,700	100
105	32.8	174.3	34,600	39.5	183.8	32,900	43.9	189.1	31,700	105
110	27.7	165.8	32,600	35.2	177.3	31,000	40.0	183.6	29,800	110
115	21.4	154.8	30,800	30.4	169.5	29,300	35.7	177.1	28,100	115
120	12.4	138.3	29,100	24.7	159.9	27,700	31.0	169.5	26,600	120
125				17.5	146.9	26,200	25.5	160.2	25,200	125
130				2.2	118.2	24,700	18.5	147.8	23,800	130
135							6.3	125.1	22,600	135
140										140
145										145
150										150
155										155
160										160

MLC165-1 S-2

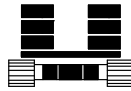
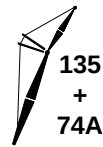
ASME B30.5



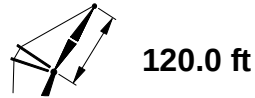
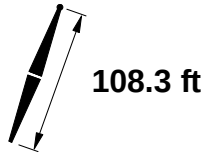
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85	62.9	208.6	38,800							85
90	59.9	205.9	36,100							90
95	56.9	202.8	33,600							95
100	53.7	199.3	31,500							100
105	50.4	195.4	29,600	56.2	199.1	27,500				105
110	46.9	191.0	27,800	53.0	195.5	25,800				110
115	43.2	186.0	26,200	49.7	191.5	24,300				115
120	39.3	180.3	24,800	46.2	187.0	23,000	52.1	190.7	21,200	120
125	35.0	173.7	23,500	42.4	181.9	21,800	48.7	186.6	20,100	125
130	30.1	165.9	22,200	38.4	176.0	20,600	45.2	181.9	19,000	130
135	24.4	156.2	21,100	34.0	169.2	19,600	41.4	176.6	18,000	135
140	17.1	143.0	20,000	29.0	161.0	18,600	37.3	170.5	17,100	140
145				23.1	150.8	17,600	32.7	163.3	16,300	145
150				15.1	136.3	16,800	27.5	154.7	15,500	150
155							21.2	143.7	14,700	155
160							12.1	127.0	14,000	160

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ASME B30.5



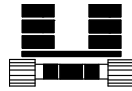
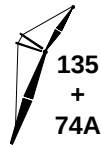
123,400 lb
+
45,100 lb



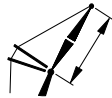
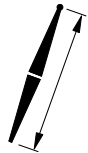
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
45	74.3	230.2	62,500 c							45
50	71.8	228.7	62,100 b							50
55	69.3	227.0	59,900 b							55
60	66.7	224.9	57,800	70.6	227.1	61,100 b				60
65	64.1	222.6	55,800	68.0	225.2	59,300 b				65
70	61.4	220.1	53,900	65.4	223.0	54,800				70
75	58.7	217.2	51,600	62.8	220.6	50,200	65.7	222.3	48,300	75
80	55.8	214.0	48,600	60.1	217.9	46,300	63.1	219.9	44,500	80
85	52.9	210.4	45,100	57.3	214.8	42,800	60.4	217.2	41,200	85
90	49.8	206.4	41,900	54.4	211.4	39,800	57.6	214.2	38,300	90
95	46.6	201.9	39,100	51.4	207.6	37,200	54.7	210.9	35,700	95
100	43.2	196.9	36,700	48.2	203.4	34,800	51.7	207.1	33,400	100
105	39.6	191.2	34,400	45.0	198.7	32,700	48.6	203.0	31,400	105
110	35.7	184.8	32,400	41.5	193.4	30,800	45.4	198.3	29,500	110
115	31.4	177.2	30,600	37.7	187.3	29,000	41.9	193.1	27,900	115
120	26.5	168.2	28,800	33.6	180.3	27,400	38.2	187.1	26,300	120
125	20.5	156.6	27,200	29.0	172.1	26,000	34.1	180.3	24,900	125
130	11.9	139.4	25,800	23.7	162.0	24,600	29.6	172.2	23,600	130
135				16.7	148.4	23,400	24.4	162.4	22,400	135
140				2.1	118.4	22,100	17.7	149.4	21,300	140
145							6.1	125.6	20,200	145
150										150
155										155
160										160
165										165
170										170

MLC165-1 S-2

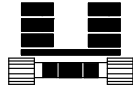
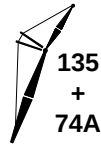
ASME B30.5



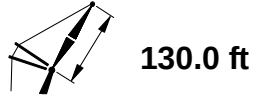
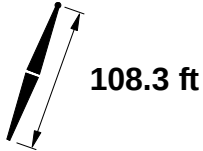
123,400 lb
+
45,100 lb



	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	35,700							90
95	59.9	214.5	33,300							95
100	57.1	211.5	31,100							100
105	54.2	208.1	29,200							105
110	51.2	204.3	27,500	56.5	207.8	25,500				110
115	48.1	200.0	25,900	53.6	204.3	24,000				115
120	44.8	195.3	24,500	50.6	200.4	22,600				120
125	41.3	189.9	23,200	47.4	196.0	21,400	52.8	199.5	19,700	125
130	37.5	183.8	21,900	44.1	191.2	20,300	49.7	195.5	18,600	130
135	33.4	176.8	20,800	40.5	185.7	19,200	46.5	191.0	17,700	135
140	28.8	168.5	19,800	36.7	179.4	18,300	43.2	185.9	16,800	140
145	23.4	158.3	18,800	32.5	172.2	17,400	39.5	180.3	15,900	145
150	16.4	144.5	17,900	27.8	163.5	16,500	35.6	173.8	15,100	150
155				22.1	152.8	15,700	31.3	166.2	14,400	155
160				14.5	137.6	14,900	26.3	157.1	13,700	160
165							20.3	145.5	13,000	165
170							11.6	128.0	12,400	170



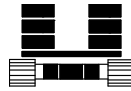
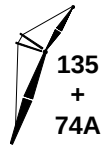
123,400 lb
+
45,100 lb



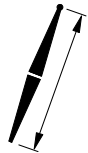
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
50	73.3	239.2	47,700 b							50
55	71.0	237.6	46,900 b							55
60	68.6	235.7	46,100							60
65	66.2	233.7	45,300	69.8	235.9	46,900 b				65
70	63.8	231.3	44,600	67.4	233.9	46,300				70
75	61.3	228.7	43,800	65.0	231.7	45,700	67.7	233.2	46,100	75
80	58.8	225.8	43,100	62.6	229.3	45,100	65.3	231.0	44,200	80
85	56.1	222.7	41,700	60.0	226.5	42,600	62.9	228.6	40,900	85
90	53.4	219.1	40,200	57.5	223.5	39,600	60.3	225.9	38,100	90
95	50.7	215.2	38,000	54.8	220.1	37,000	57.8	222.9	35,500	95
100	47.7	210.9	35,900	52.1	216.4	34,600	55.1	219.6	33,200	100
105	44.7	206.1	33,800	49.2	212.3	32,500	52.4	215.9	31,200	105
110	41.5	200.8	31,900	46.2	207.8	30,600	49.6	211.9	29,300	110
115	38.0	194.8	30,000	43.1	202.7	28,800	46.6	207.4	27,700	115
120	34.3	187.9	28,200	39.8	197.1	27,300	43.5	202.4	26,100	120
125	30.1	180.0	26,600	36.2	190.7	25,800	40.2	196.8	24,700	125
130	25.4	170.5	25,100	32.3	183.3	24,500	36.6	190.5	23,500	130
135	19.7	158.4	23,800	27.9	174.7	23,300	32.8	183.3	22,300	135
140	11.4	140.4	22,700	22.7	164.1	22,100	28.4	174.8	21,200	140
145				16.1	149.9	21,000	23.4	164.5	20,100	145
150				2.1	118.6	19,900	17.0	150.9	19,200	150
155							5.8	126.1	18,200	155
160										160
165										165
170										170
175										175
180										180

MLC165-1 S-2

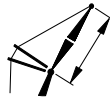
ASME B30.5



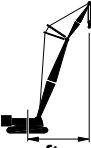
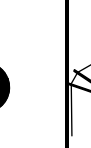
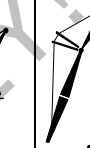
123,400 lb
+
45,100 lb



108.3 ft

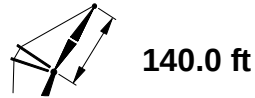
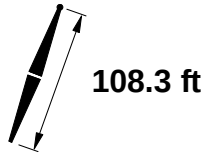
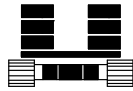
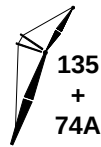


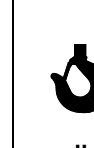
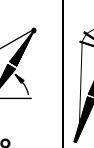
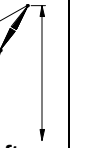
130.0 ft

	75°			70°			65°			
										
	ft	ft	ft	lb	ft	ft	lb	ft	ft	ft
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95	62.4	225.9		33,000						95
100	59.9	223.2		30,900						100
105	57.3	220.1		29,000						105
110	54.7	216.8		27,200						110
115	51.9	213.1		25,700	56.8	216.4	23,700			115
120	49.1	208.9		24,200	54.1	213.0	22,400			120
125	46.1	204.4		22,900	51.4	209.2	21,200			125
130	43.0	199.3		21,700	48.5	205.0	20,000			130
135	39.6	193.6		20,600	45.5	200.3	19,000	50.6	204.3	17,400
140	36.0	187.1		19,600	42.3	195.1	18,000	47.7	200.0	16,500
145	32.1	179.7		18,600	38.9	189.3	17,100	44.6	195.2	15,700
150	27.7	171.0		17,700	35.2	182.6	16,300	41.4	189.8	14,900
155	22.5	160.3		16,900	31.2	175.0	15,500	37.9	183.8	14,200
160	15.7	145.9		16,100	26.6	166.0	14,800	34.2	176.9	13,500
165					21.2	154.7	14,100	30.0	168.9	12,900
170					13.9	138.9	13,400	25.3	159.4	12,200
175								19.5	147.3	11,700
180								11.1	129.0	11,100

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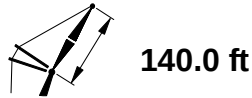
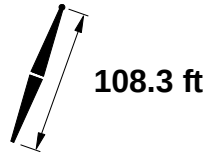
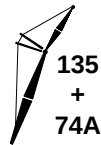
ASME B30.5



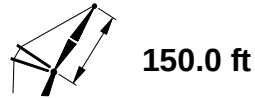
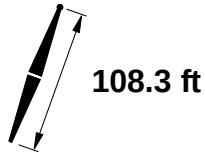
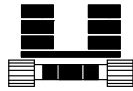
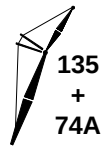
	87°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
50	74.5	249.6	44,800 b							50
55	72.4	248.1	44,000 b							55
60	70.2	246.4	43,200							60
65	68.0	244.5	42,500							65
70	65.8	242.4	41,900	69.1	244.7	43,200				70
75	63.5	240.0	41,000	66.9	242.7	42,600				75
80	61.2	237.4	39,500	64.7	240.4	42,100	67.2	242.0	42,400	80
85	58.8	234.5	38,100	62.4	237.9	40,600	64.9	239.7	40,600	85
90	56.4	231.3	36,600	60.0	235.2	39,200	62.7	237.3	37,700	90
95	53.9	227.9	35,200	57.7	232.2	36,700	60.3	234.6	35,200	95
100	51.4	224.0	34,000	55.2	228.8	34,300	57.9	231.6	32,900	100
105	48.7	219.9	32,600	52.7	225.2	32,200	55.5	228.3	30,900	105
110	45.9	215.2	30,900	50.0	221.2	30,300	53.0	224.7	29,000	110
115	43.0	210.1	29,200	47.3	216.8	28,600	50.4	220.7	27,400	115
120	39.9	204.5	27,700	44.5	212.0	27,000	47.6	216.4	25,800	120
125	36.6	198.1	26,100	41.5	206.6	25,600	44.8	211.6	24,400	125
130	33.0	190.9	24,800	38.3	200.6	24,200	41.8	206.3	23,200	130
135	29.0	182.6	23,400	34.8	193.9	23,000	38.7	200.4	22,000	135
140	24.5	172.7	22,200	31.1	186.1	21,900	35.3	193.7	20,900	140
145	18.9	160.1	21,100	26.8	177.1	20,800	31.5	186.2	19,900	145
150	11.0	141.4	20,300	21.9	166.1	19,800	27.4	177.3	18,900	150
155				15.5	151.3	18,900	22.5	166.5	18,000	155
160				2.0	118.7	17,900	16.4	152.4	17,200	160
165							5.6	126.6	16,400	165
170										170
175										175
180										180
185										185
190										190

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ASME B30.5



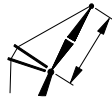
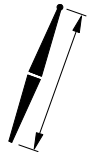
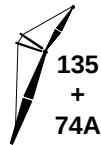
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100	62.3	234.6	30,500							100
105	59.9	231.9	28,600							105
110	57.5	228.8	26,900							110
115	55.1	225.5	25,300							115
120	52.5	221.8	23,900	57.0	225.1	22,000				120
125	49.9	217.8	22,600	54.6	221.7	20,800				125
130	47.2	213.4	21,400	52.0	218.0	19,700				130
135	44.3	208.5	20,300	49.4	213.9	18,700				135
140	41.3	203.1	19,300	46.6	209.4	17,700	51.3	213.1	16,100	140
145	38.1	197.1	18,300	43.7	204.4	16,800	48.6	208.9	15,300	145
150	34.7	190.3	17,400	40.7	198.9	16,000	45.8	204.3	14,500	150
155	30.9	182.6	16,600	37.4	192.7	15,200	42.9	199.2	13,800	155
160	26.6	173.5	15,800	33.9	185.8	14,500	39.8	193.5	13,200	160
165	21.6	162.3	15,100	30.0	177.7	13,800	36.5	187.1	12,500	165
170	15.1	147.2	14,400	25.7	168.3	13,200	32.9	179.9	11,900	170
175				20.4	156.5	12,500	28.9	171.6	11,400	175
180				13.4	140.1	11,900	24.4	161.6	10,800	180
185							18.8	148.9	10,300	185
190							10.7	130.0	9,800	190



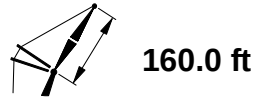
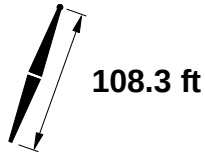
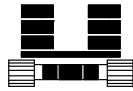
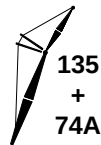
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
55	73.6	258.6	41,200 b							55
60	71.6	257.0	40,500							60
65	69.5	255.2	39,900							65
70	67.5	253.3	39,200	70.6	255.3	40,300				70
75	65.4	251.1	37,900	68.5	253.5	39,700				75
80	63.3	248.7	36,400	66.5	251.4	38,700				80
85	61.1	246.1	35,000	64.4	249.1	37,400	66.7	250.7	38,500	85
90	58.9	243.2	33,600	62.2	246.6	36,000	64.6	248.4	37,300	90
95	56.7	240.0	32,300	60.0	243.8	34,600	62.5	246.0	35,100	95
100	54.4	236.6	31,000	57.8	240.8	33,300	60.3	243.2	32,800	100
105	52.0	232.8	29,800	55.5	237.5	32,000	58.1	240.2	30,800	105
110	49.5	228.8	28,600	53.2	234.0	30,200	55.8	237.0	28,900	110
115	46.9	224.3	27,400	50.7	230.0	28,500	53.5	233.4	27,300	115
120	44.3	219.4	26,300	48.2	225.8	26,900	51.0	229.6	25,700	120
125	41.5	214.0	25,200	45.6	221.1	25,500	48.5	225.3	24,400	125
130	38.5	208.0	24,200	42.9	216.0	24,200	45.9	220.7	23,100	130
135	35.3	201.4	23,100	40.0	210.3	22,900	43.2	215.6	21,900	135
140	31.8	193.8	21,900	36.9	204.0	21,800	40.3	210.0	20,800	140
145	28.0	185.1	20,900	33.6	196.9	20,800	37.3	203.8	19,800	145
150	23.6	174.8	19,900	30.0	188.9	19,800	34.0	196.9	18,900	150
155	18.3	161.8	18,900	25.9	179.4	18,900	30.4	188.9	18,000	155
160	10.6	142.3	18,200	21.1	168.0	18,000	26.4	179.7	17,200	160
165				15.0	152.6	17,200	21.7	168.5	16,400	165
170				1.9	118.9	16,300	15.8	153.8	15,600	170
175							5.4	127.1	14,900	175
180										180
185										185
190										190
195										195
200										200

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ASME B30.5



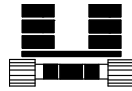
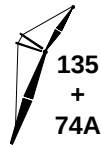
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105	62.1	243.3	28,500							105
110	59.9	240.5	26,800							110
115	57.7	237.5	25,200							115
120	55.4	234.2	23,800							120
125	53.1	230.6	22,500	57.2	233.8	20,700				125
130	50.6	226.7	21,300	54.9	230.4	19,600				130
135	48.1	222.4	20,200	52.6	226.8	18,600				135
140	45.5	217.7	19,200	50.1	222.8	17,600				140
145	42.8	212.5	18,300	47.6	218.4	16,700	51.9	221.9	15,200	145
150	39.9	206.8	17,400	44.9	213.6	15,900	49.4	217.8	14,500	150
155	36.8	200.5	16,600	42.2	208.3	15,100	46.9	213.3	13,700	155
160	33.5	193.4	15,800	39.2	202.5	14,400	44.2	208.4	13,100	160
165	29.8	185.3	15,100	36.1	196.1	13,700	41.4	203.0	12,400	165
170	25.7	175.8	14,400	32.7	188.8	13,100	38.4	197.1	11,900	170
175	20.9	164.2	13,700	29.0	180.4	12,500	35.2	190.4	11,300	175
180	14.6	148.5	13,100	24.8	170.5	11,900	31.8	182.8	10,800	180
185				19.7	158.3	11,400	27.9	174.1	10,300	185
190				12.9	141.2	10,800	23.5	163.7	9,800	190
195							18.1	150.6	9,300	195
200							10.4	130.9	8,900	200



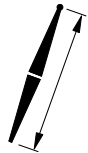
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
55	74.6	269.0	38,400 b							55
60	72.8	267.5	37,700							60
65	70.9	265.9	37,100							65
70	69.0	264.0	35,900							70
75	67.0	262.0	34,500	69.9	264.2	36,500				75
80	65.1	259.8	33,100	68.0	262.2	35,200				80
85	63.1	257.4	31,800	66.1	260.1	33,900				85
90	61.1	254.7	30,500	64.1	257.8	32,600	66.3	259.4	33,900	90
95	59.0	251.8	29,200	62.1	255.3	31,300	64.3	257.1	32,600	95
100	56.9	248.7	27,900	60.0	252.5	30,000	62.3	254.6	31,400	100
105	54.7	245.3	26,700	58.0	249.5	28,800	60.3	251.9	30,200	105
110	52.5	241.6	25,500	55.8	246.2	27,600	58.2	248.9	28,600	110
115	50.2	237.6	24,400	53.6	242.7	26,300	56.1	245.7	27,000	115
120	47.8	233.3	23,300	51.4	238.9	25,200	53.9	242.2	25,500	120
125	45.4	228.5	22,300	49.0	234.7	24,100	51.6	238.4	24,100	125
130	42.8	223.4	21,200	46.6	230.2	23,000	49.3	234.2	22,800	130
135	40.1	217.7	20,300	44.1	225.2	22,000	46.9	229.8	21,600	135
140	37.2	211.5	19,400	41.5	219.8	21,000	44.4	224.9	20,500	140
145	34.1	204.5	18,500	38.7	213.9	20,000	41.8	219.5	19,500	145
150	30.8	196.6	17,700	35.7	207.3	19,200	39.0	213.6	18,600	150
155	27.1	187.6	17,000	32.5	199.9	18,300	36.1	207.1	17,700	155
160	22.9	176.9	16,200	29.0	191.5	17,500	32.9	199.9	16,900	160
165	17.7	163.3	15,400	25.1	181.7	16,700	29.5	191.6	16,100	165
170	10.3	143.3	14,600	20.5	169.8	16,000	25.6	182.0	15,400	170
175				14.5	153.9	15,100	21.1	170.4	14,700	175
180				1.9	119.1	14,300	15.3	155.2	14,100	180
185							5.3	127.6	13,400	185
190										190
195										195
200										200
205										205
210										210

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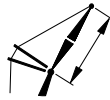
ASME B30.5



123,400 lb
+
45,100 lb

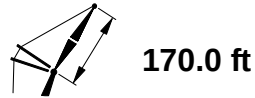
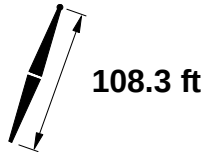
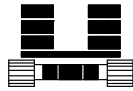
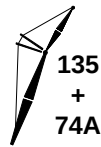


108.3 ft



160.0 ft

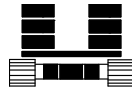
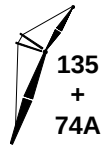
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110	62.0	252.0	26,500							110
115	59.9	249.2	24,900							115
120	57.9	246.2	23,500							120
125	55.7	242.9	22,200							125
130	53.5	239.3	21,000	57.4	242.5	19,200				130
135	51.3	235.5	19,900	55.3	239.1	18,200				135
140	48.9	231.3	18,900	53.0	235.5	17,300				140
145	46.5	226.7	17,900	50.8	231.6	16,400				145
150	44.0	221.8	17,100	48.4	227.3	15,600	52.4	230.7	14,100	150
155	41.3	216.4	16,300	46.0	222.7	14,800	50.1	226.7	13,400	155
160	38.5	210.4	15,500	43.4	217.7	14,100	47.8	222.3	12,700	160
165	35.6	203.8	14,800	40.8	212.1	13,400	45.3	217.6	12,100	165
170	32.4	196.3	14,100	37.9	206.0	12,800	42.7	212.4	11,500	170
175	28.8	187.9	13,500	34.9	199.3	12,200	40.0	206.7	11,000	175
180	24.9	178.0	12,800	31.7	191.6	11,600	37.1	200.5	10,400	180
185	20.2	166.0	12,300	28.1	182.9	11,100	34.1	193.5	9,900	185
190	14.2	149.8	11,700	24.0	172.7	10,600	30.7	185.6	9,500	190
195				19.1	160.0	10,100	27.0	176.5	9,000	195
200				12.5	142.3	9,600	22.8	165.8	8,600	200
205							17.6	152.1	8,200	205
210							10.0	131.8	7,700	210



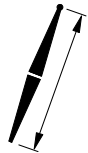
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
60	73.8	278.0	35,100							60
65	72.0	276.4	34,300							65
70	70.3	274.7	33,100							70
75	68.5	272.8	31,800							75
80	66.6	270.8	30,500	69.4	273.0	32,400				80
85	64.8	268.5	29,200	67.6	271.0	31,100				85
90	62.9	266.0	27,900	65.7	268.8	29,900	67.8	270.3	30,900	90
95	61.0	263.4	26,700	63.9	266.5	28,700	65.9	268.2	29,800	95
100	59.1	260.5	25,500	62.0	263.9	27,400	64.1	265.8	28,700	100
105	57.1	257.4	24,300	60.0	261.2	26,300	62.2	263.3	27,500	105
110	55.0	254.0	23,200	58.1	258.2	25,100	60.3	260.5	26,400	110
115	53.0	250.4	22,100	56.1	254.9	23,900	58.3	257.6	25,200	115
120	50.8	246.5	21,000	54.0	251.4	22,800	56.3	254.4	24,100	120
125	48.6	242.2	20,000	51.9	247.7	21,800	54.3	250.9	23,000	125
130	46.3	237.6	19,100	49.7	243.6	20,700	52.1	247.2	22,000	130
135	43.9	232.6	18,100	47.5	239.2	19,700	50.0	243.1	20,900	135
140	41.4	227.2	17,200	45.1	234.4	18,800	47.7	238.7	19,900	140
145	38.8	221.3	16,400	42.7	229.2	17,900	45.4	234.0	18,900	145
150	36.1	214.8	15,500	40.2	223.5	17,000	43.0	228.9	18,100	150
155	33.1	207.5	14,700	37.5	217.3	16,100	40.5	223.3	17,100	155
160	29.9	199.3	13,700	34.6	210.4	15,300	37.8	217.1	16,300	160
165	26.3	190.0	12,800	31.5	202.8	14,300	35.0	210.3	15,500	165
170	22.2	178.9	11,900	28.1	194.0	13,300	31.9	202.8	14,500	170
175	17.2	164.9	11,100	24.3	183.9	12,500	28.6	194.2	13,400	175
180	10.0	144.1	10,400	19.8	171.6	11,600	24.8	184.2	12,600	180
185				14.1	155.2	10,800	20.4	172.2	11,700	185
190				1.8	119.2	10,200	14.8	156.5	10,900	190
195							5.1	128.0	10,300	195
200										200
205										205
210										210
215										215
220										220

MLC165-1 S-2

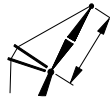
ASME B30.5



123,400 lb
+
45,100 lb



108.3 ft

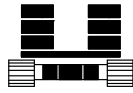
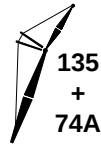


170.0 ft

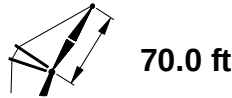
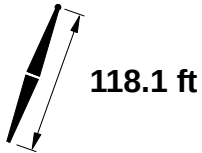
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110										110
115	61.9	260.6	24,700							115
120	59.9	257.8	23,200							120
125	58.0	254.8	21,900							125
130	56.0	251.6	20,800							130
135	53.9	248.1	19,700	57.6	251.1	18,000				135
140	51.8	244.3	18,700	55.5	247.8	17,000				140
145	49.6	240.2	17,700	53.5	244.3	16,100				145
150	47.4	235.8	16,800	51.3	240.4	15,300				150
155	45.0	231.0	16,000	49.2	236.3	14,600	52.9	239.5	13,100	155
160	42.6	225.8	15,300	46.9	231.8	13,800	50.8	235.5	12,500	160
165	40.0	220.1	14,600	44.5	226.9	13,200	48.5	231.3	11,800	165
170	37.4	213.8	13,900	42.1	221.6	12,600	46.3	226.7	11,300	170
175	34.5	206.9	13,200	39.5	215.8	12,000	43.9	221.7	10,700	175
180	31.4	199.2	12,600	36.8	209.4	11,400	41.4	216.3	10,200	180
185	28.0	190.4	12,100	33.8	202.3	10,900	38.8	210.3	9,700	185
190	24.1	180.2	11,500	30.7	194.4	10,400	36.0	203.8	9,200	190
195	19.6	167.7	11,000	27.2	185.4	9,900	33.0	196.5	8,800	195
200	13.7	151.0	10,500	23.3	174.8	9,400	29.8	188.3	8,400	200
205				18.5	161.7	9,000	26.2	178.9	8,000	205
210				12.1	143.4	8,600	22.1	167.7	7,600	210
215							17.0	153.7	7,200	215
220							9.7	132.6	6,800	220

MLC165-1 S-2

ASME B30.5



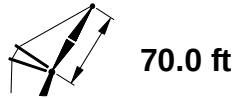
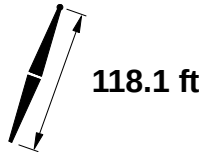
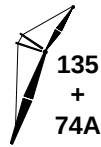
123,400 lb
+
45,100 lb

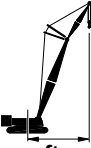
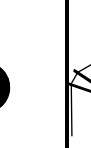
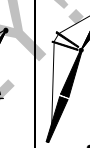


	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
32	74.3	191.9	94,100 d							32
34	72.6	191.3	94,100 d							34
36	70.9	190.7	94,000 d							36
38	69.2	189.9	93,900 c							38
40	67.4	189.2	93,800 c							40
45	62.9	186.8	85,100 c	70.2	189.5	96,000 d				45
50	58.2	184.0	77,200 b	65.8	187.5	85,100 c				50
55	53.2	180.6	70,800 b	61.2	185.0	75,300 b	66.8	186.9	72,400 c	55
60	47.9	176.5	65,600	56.4	182.0	67,400 b	62.2	184.6	64,800 c	60
65	42.1	171.5	61,100	51.4	178.3	60,900 b	57.5	181.7	58,600 b	65
70	35.6	165.3	57,500	45.9	173.9	55,500	52.5	178.2	53,400 b	70
75	27.8	157.2	53,500	39.9	168.5	50,900	47.1	173.9	48,900	75
80	17.1	145.1	49,200	33.0	161.8	46,900	41.3	168.8	45,100	80
85				24.5	152.6	43,400	34.6	162.4	41,800	85
90				11.0	137.0	40,300	26.6	153.9	38,800	90
95							15.0	140.7	36,200	95
100										100
105										105
110										110
115										115
120										120
125										125

MLC165-1 S-2

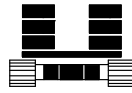
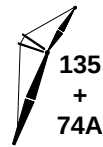
ASME B30.5



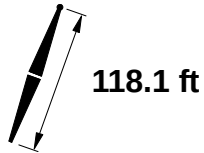
	75°			70°			65°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
32										32
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70	62.2	182.2	49,800 c							70
75	57.5	179.3	45,700 b							75
80	52.5	175.8	42,100 b							80
85	47.2	171.5	39,000	57.3	175.8	36,200 b				85
90	41.3	166.4	36,300	52.3	172.3	33,700 b				90
95	34.6	160.0	33,800	46.9	168.0	31,400				95
100	26.6	151.5	31,600	41.0	162.8	29,400	51.7	167.7	27,200 b	100
105	15.0	138.4	29,600	34.3	156.4	27,600	46.3	163.4	25,500	105
110				26.2	147.8	25,900	40.3	158.1	24,000	110
115				14.3	134.2	24,300	33.5	151.4	22,600	115
120							25.1	142.5	21,300	120
125							12.3	127.7	20,000	125

MLC165-1 S-2

ASME B30.5



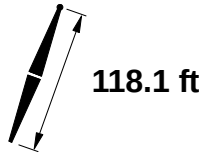
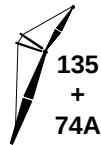
123,400 lb
+
45,100 lb



	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	84,800 c							45
50	62.5	195.5	76,700 b	69.0	198.3	84,800 c				50
55	58.4	192.7	70,200 b	65.1	196.2	75,000 b				55
60	54.1	189.3	64,900	61.1	193.7	67,100 b	65.9	195.7	64,500 c	60
65	49.5	185.4	60,400	56.9	190.7	60,700 b	62.0	193.2	58,300 b	65
70	44.7	180.8	56,600	52.5	187.1	55,300	57.8	190.3	53,100 b	70
75	39.3	175.2	53,300	47.8	182.9	50,700	53.5	186.9	48,600	75
80	33.2	168.4	49,200	42.8	178.0	46,700	48.9	182.9	44,800	80
85	26.0	159.6	45,500	37.2	172.0	43,300	43.9	178.1	41,500	85
90	16.0	146.5	42,300	30.8	164.6	40,200	38.5	172.4	38,600	90
95				22.9	154.7	37,500	32.3	165.4	36,000	95
100				10.3	137.9	35,000	24.8	156.2	33,700	100
105							14.0	142.0	31,600	105
110										110
115										115
120										120
125										125
130										130
135										135

MLC165-1 S-2

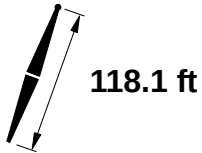
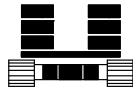
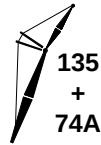
ASME B30.5



	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	45,300 b							75
80	57.8	187.9	41,700 b							80
85	53.5	184.5	38,700							85
90	48.9	180.5	35,900	57.6	184.5	33,300 b				90
95	43.9	175.7	33,500	53.3	181.0	31,000				95
100	38.5	170.0	31,400	48.7	177.0	29,000				100
105	32.3	163.0	29,400	43.7	172.2	27,200	52.8	176.5	25,100	105
110	24.8	153.8	27,700	38.2	166.4	25,600	48.1	172.4	23,600	110
115	14.1	139.7	26,000	32.0	159.3	24,100	43.1	167.5	22,200	115
120				24.4	150.0	22,800	37.6	161.6	20,900	120
125				13.4	135.4	21,500	31.3	154.3	19,800	125
130							23.5	144.6	18,700	130
135							11.5	128.8	17,600	135

MLC165-1 S-2

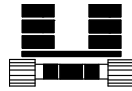
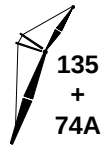
ASME B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	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	76,600 b							50
55	62.2	204.2	70,100 b	68.0	207.1	74,800 b				55
60	58.6	201.3	64,600 b	64.5	204.9	66,900 b				60
65	54.8	198.1	60,000	60.9	202.3	60,500 b	65.3	204.4	58,000 b	65
70	50.8	194.3	56,200	57.2	199.3	55,100	61.7	201.9	52,900 b	70
75	46.5	189.9	52,900	53.4	195.9	50,500	58.1	199.0	48,500 b	75
80	42.0	184.7	49,100	49.3	191.9	46,600	54.2	195.6	44,700	80
85	37.0	178.6	45,500	44.9	187.2	43,100	50.2	191.8	41,400	85
90	31.3	171.3	42,300	40.2	181.8	40,100	45.9	187.3	38,500	90
95	24.5	161.8	39,500	35.0	175.3	37,500	41.3	182.0	35,900	95
100	15.0	147.9	36,900	29.0	167.3	35,100	36.2	175.8	33,600	100
105				21.5	156.7	32,900	30.4	168.2	31,600	105
110				9.7	138.8	30,900	23.4	158.3	29,700	110
115							13.2	143.2	27,900	115
120										120
125										125
130										130
135										135
140										140
145										145

MLC165-1 S-2

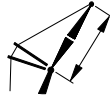
ASME B30.5



123,400 lb
+
45,100 lb



118.1 ft

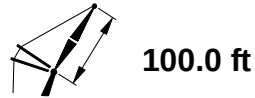
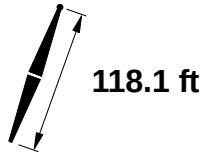
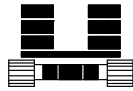
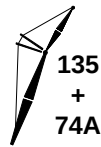


90.0 ft

	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	41,500 b							80
85	58.1	196.6	38,400 b							85
90	54.2	193.2	35,700							90
95	50.2	189.4	33,300	57.9	193.2	30,800				95
100	45.9	184.9	31,200	54.1	189.8	28,800				100
105	41.3	179.6	29,300	50.0	185.9	27,000				105
110	36.2	173.4	27,600	45.7	181.4	25,400				110
115	30.4	165.8	26,000	41.1	176.1	24,000	49.6	181.3	22,000	115
120	23.4	155.9	24,500	36.0	169.8	22,600	45.2	176.7	20,700	120
125	13.3	140.8	23,100	30.1	162.1	21,400	40.6	171.3	19,600	125
130				23.0	152.1	20,200	35.4	164.9	18,600	130
135				12.6	136.6	19,100	29.4	157.0	17,600	135
140							22.1	146.7	16,700	140
145							10.9	129.8	15,800	145

MLC165-1 S-2

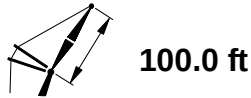
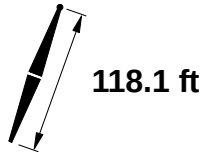
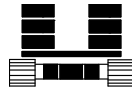
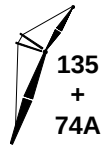
ASME B30.5



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	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	68,700 b	70.3	217.8	72,400 b				55
60	62.0	212.8	64,500 b	67.2	215.9	66,600 b				60
65	58.7	210.0	59,700	64.1	213.6	60,200 b	67.9	215.3	57,700 b	65
70	55.3	206.8	55,800	60.9	211.0	54,800	64.8	213.1	52,500 b	70
75	51.8	203.1	52,400	57.5	208.0	50,200	61.6	210.6	48,100	75
80	48.0	198.8	48,900	54.0	204.6	46,300	58.3	207.7	44,300	80
85	44.0	194.0	45,300	50.4	200.7	42,900	54.8	204.4	41,100	85
90	39.7	188.4	42,100	46.6	196.3	39,900	51.2	200.6	38,200	90
95	35.0	181.9	39,300	42.5	191.2	37,200	47.5	196.3	35,600	95
100	29.6	174.0	36,800	38.1	185.3	34,800	43.4	191.4	33,300	100
105	23.2	163.9	34,300	33.2	178.4	32,700	39.1	185.7	31,300	105
110	14.3	149.2	32,200	27.5	169.8	30,800	34.3	179.0	29,500	110
115				20.4	158.5	29,000	28.8	170.8	27,800	115
120				9.2	139.6	27,300	22.2	160.3	26,200	120
125							12.5	144.3	24,800	125
130										130
135										135
140										140
145										145
150										150
155										155

MLC165-1 S-2

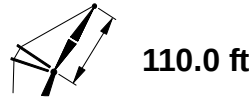
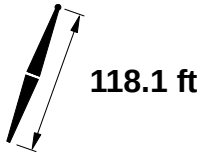
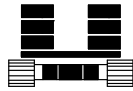
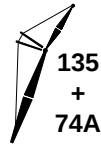
ASME B30.5

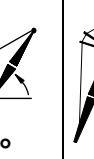


	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85	61.6	208.2	38,100							85
90	58.3	205.3	35,400							90
95	54.8	202.0	33,000							95
100	51.2	198.2	30,900							100
105	47.5	193.9	29,000	54.7	198.5	26,700				105
110	43.5	189.0	27,200	51.1	194.7	25,100				110
115	39.1	183.3	25,700	47.3	190.4	23,600				115
120	34.3	176.6	24,200	43.3	185.4	22,300	50.7	190.1	20,400	120
125	28.8	168.4	22,900	38.9	179.7	21,100	46.9	185.8	19,200	125
130	22.2	158.0	21,700	34.1	172.9	19,900	42.8	180.7	18,200	130
135	12.6	142.0	20,500	28.6	164.7	18,900	38.4	174.9	17,200	135
140				21.8	154.1	17,900	33.5	168.0	16,300	140
145				12.0	137.6	17,000	27.9	159.6	15,500	145
150							21.0	148.6	14,700	150
155							10.3	130.7	13,900	155

MLC165-1 S-2

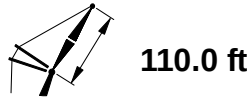
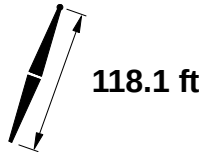
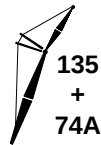
ASME B30.5



	87°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	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	64,000 b							55
60	64.8	224.0	61,500	69.4	226.6	65,700 b				60
65	61.8	221.5	58,100	66.6	224.6	60,100 b				65
70	58.8	218.7	54,600	63.7	222.3	54,700	67.2	224.0	52,400 b	70
75	55.8	215.5	51,200	60.8	219.7	50,200	64.4	221.8	48,100	75
80	52.5	211.8	47,900	57.7	216.7	46,200	61.4	219.2	44,300	80
85	49.2	207.8	44,700	54.6	213.3	42,800	58.4	216.3	41,000	85
90	45.6	203.2	41,700	51.3	209.6	39,800	55.3	213.1	38,100	90
95	41.9	197.9	38,900	47.9	205.3	37,200	52.1	209.4	35,600	95
100	37.8	192.0	36,300	44.3	200.5	34,800	48.7	205.3	33,300	100
105	33.3	185.0	33,900	40.4	195.0	32,700	45.1	200.6	31,300	105
110	28.2	176.6	31,700	36.2	188.7	30,800	41.3	195.3	29,500	110
115	22.1	165.9	29,800	31.6	181.3	29,100	37.2	189.1	27,800	115
120	13.6	150.4	28,200	26.2	172.2	27,500	32.7	182.0	26,300	120
125				19.5	160.3	26,000	27.5	173.3	24,900	125
130				8.8	140.4	24,600	21.1	162.2	23,600	130
135							11.9	145.4	22,300	135
140										140
145										145
150										150
155										155
160										160
165										165

MLC165-1 S-2

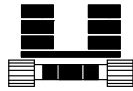
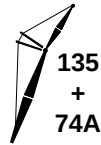
ASME B30.5



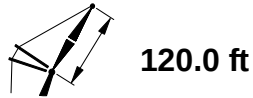
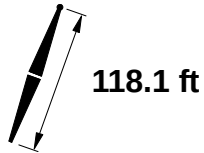
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90	61.4	216.8	35,300							90
95	58.4	213.9	32,900							95
100	55.3	210.7	30,800							100
105	52.1	207.0	28,900							105
110	48.7	202.8	27,200	55.2	207.2	25,000				110
115	45.1	198.2	25,700	51.9	203.5	23,600				115
120	41.3	192.8	24,200	48.5	199.4	22,300				120
125	37.2	186.7	22,900	45.0	194.7	21,100	51.6	199.0	19,200	125
130	32.7	179.6	21,700	41.2	189.3	19,900	48.2	194.7	18,200	130
135	27.5	170.9	20,600	37.0	183.1	18,900	44.6	190.0	17,200	135
140	21.1	159.9	19,600	32.4	175.9	18,000	40.7	184.5	16,300	140
145	12.0	143.1	18,600	27.2	167.2	17,100	36.5	178.3	15,500	145
150				20.8	156.0	16,200	31.9	170.9	14,700	150
155				11.4	138.6	15,400	26.6	162.0	14,000	155
160							20.0	150.4	13,300	160
165							9.8	131.6	12,700	165

MLC165-1 S-2

ASME B30.5



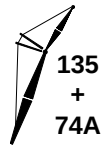
123,400 lb
+
45,100 lb



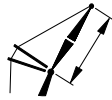
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
45	74.6	240.2	55,100 c							45
50	72.1	238.7	55,100 b							50
55	69.6	237.0	55,100 b							55
60	67.0	235.0	54,900							60
65	64.4	232.7	53,100	68.6	235.4	55,100 b				65
70	61.7	230.2	51,300	66.1	233.3	54,400				70
75	58.9	227.3	48,600	63.4	231.0	49,900	66.6	232.8	47,700	75
80	56.1	224.1	45,800	60.7	228.3	45,900	64.0	230.5	44,000	80
85	53.2	220.6	43,100	57.9	225.3	42,500	61.3	227.9	40,700	85
90	50.1	216.6	40,500	55.1	222.0	39,500	58.6	225.0	37,800	90
95	47.0	212.2	38,000	52.1	218.3	36,900	55.7	221.8	35,300	95
100	43.6	207.3	35,600	49.0	214.2	34,600	52.8	218.2	33,000	100
105	40.0	201.7	33,400	45.8	209.6	32,400	49.7	214.1	31,000	105
110	36.1	195.3	31,300	42.3	204.5	30,500	46.5	209.7	29,200	110
115	31.9	187.9	29,400	38.7	198.6	28,800	43.1	204.6	27,500	115
120	27.0	179.0	27,700	34.7	191.9	27,200	39.5	198.9	26,000	120
125	21.2	167.8	26,100	30.2	184.0	25,800	35.6	192.4	24,600	125
130	13.0	151.6	24,900	25.1	174.5	24,400	31.2	184.8	23,300	130
135				18.6	162.0	23,200	26.3	175.7	22,100	135
140				8.4	141.2	22,000	20.2	164.1	21,000	140
145							11.4	146.4	20,000	145
150										150
155										155
160										160
165										165
170										170
175										175

MLC165-1 S-2

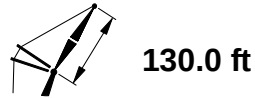
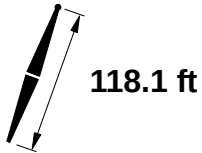
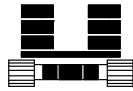
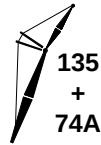
ASME B30.5



123,400 lb
+
45,100 lb



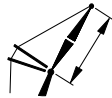
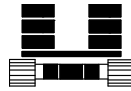
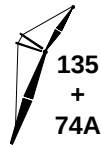
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95	61.3	225.5	32,600							95
100	58.6	222.6	30,500							100
105	55.7	219.4	28,600							105
110	52.8	215.8	26,900							110
115	49.7	211.7	25,300	55.6	215.9	23,200				115
120	46.5	207.3	23,900	52.6	212.3	21,900				120
125	43.1	202.2	22,600	49.6	208.3	20,700				125
130	39.5	196.5	21,400	46.4	203.7	19,600	52.3	207.7	17,800	130
135	35.6	190.0	20,300	43.0	198.7	18,600	49.2	203.7	16,800	135
140	31.2	182.4	19,300	39.3	193.0	17,600	46.0	199.1	16,000	140
145	26.3	173.3	18,400	35.4	186.4	16,800	42.6	194.0	15,200	145
150	20.2	161.7	17,500	31.0	178.8	15,900	38.9	188.2	14,400	150
155	11.5	144.1	16,600	26.0	169.6	15,200	34.9	181.5	13,700	155
160				19.9	157.8	14,400	30.5	173.7	13,000	160
165				10.9	139.6	13,700	25.4	164.3	12,400	165
170							19.1	152.1	11,800	170
175							9.4	132.4	11,200	175



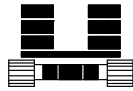
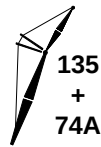
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
50	73.5	249.2	46,800 b							50
55	71.2	247.6	46,000 b							55
60	68.9	245.8	45,200							60
65	66.5	243.7	44,500	70.4	246.1	46,100 b				65
70	64.0	241.4	43,800	68.0	244.2	45,500				70
75	61.6	238.8	43,100	65.6	242.0	44,900				75
80	59.0	236.0	42,300	63.2	239.6	44,400	66.1	241.5	43,700	80
85	56.4	232.8	40,200	60.7	237.0	42,300	63.7	239.2	40,400	85
90	53.7	229.3	38,100	58.1	234.0	39,300	61.2	236.6	37,600	90
95	50.9	225.5	35,900	55.5	230.7	36,700	58.7	233.7	35,100	95
100	48.0	221.2	33,900	52.7	227.1	34,400	56.0	230.5	32,800	100
105	45.0	216.5	32,000	49.9	223.1	32,200	53.3	226.9	30,800	105
110	41.8	211.2	30,200	47.0	218.7	30,300	50.5	223.0	29,000	110
115	38.4	205.2	28,500	43.9	213.8	28,600	47.6	218.7	27,300	115
120	34.7	198.5	26,900	40.6	208.2	27,100	44.6	213.9	25,800	120
125	30.6	190.7	25,400	37.1	202.0	25,600	41.3	208.5	24,400	125
130	25.9	181.4	24,000	33.3	194.9	24,300	37.9	202.4	23,100	130
135	20.3	169.7	22,800	29.0	186.7	23,100	34.1	195.6	22,000	135
140	12.5	152.7	21,800	24.1	176.6	21,900	30.0	187.6	20,900	140
145				17.9	163.6	20,900	25.2	178.0	19,900	145
150				8.1	141.9	19,800	19.4	165.8	18,900	150
155							11.0	147.4	18,000	155
160										160
165										165
170										170
175										175
180										180
185										185

MLC165-1 S-2

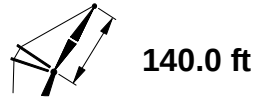
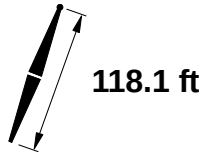
ASME B30.5



	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	61.2	234.1	30,200							100
105	58.7	231.2	28,300							105
110	56.1	228.0	26,600							110
115	53.4	224.5	25,100							115
120	50.6	220.6	23,700	55.9	224.6	21,600				120
125	47.6	216.3	22,400	53.2	221.0	20,400				125
130	44.6	211.4	21,200	50.4	217.1	19,400				130
135	41.3	206.1	20,100	47.5	212.8	18,300	52.9	216.5	16,600	135
140	37.9	200.0	19,100	44.4	207.9	17,400	50.1	212.5	15,700	140
145	34.1	193.2	18,200	41.2	202.5	16,500	47.2	208.1	14,900	145
150	30.0	185.2	17,300	37.7	196.5	15,700	44.1	203.2	14,200	150
155	25.2	175.6	16,500	34.0	189.5	15,000	40.8	197.8	13,500	155
160	19.4	163.4	15,700	29.8	181.5	14,300	37.3	191.6	12,800	160
165	11.0	145.1	14,900	25.0	171.8	13,600	33.5	184.6	12,200	165
170				19.1	159.5	12,900	29.3	176.4	11,600	170
175				10.5	140.6	12,300	24.4	166.5	11,000	175
180							18.4	153.7	10,500	180
185							9.0	133.2	10,000	185



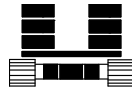
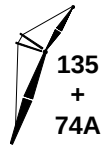
123,400 lb
+
45,100 lb



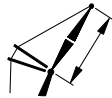
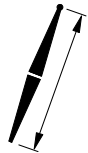
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
50	74.7	259.6	43,900 b							50
55	72.6	258.1	43,100 b							55
60	70.4	256.4	42,500							60
65	68.2	254.6	41,700							65
70	66.0	252.4	41,100	69.6	254.9	42,500				70
75	63.8	250.1	40,500	67.4	252.9	41,900				75
80	61.5	247.5	39,400	65.2	250.8	41,400	67.9	252.4	41,600	80
85	59.1	244.7	37,800	62.9	248.3	40,600	65.7	250.2	40,100	85
90	56.7	241.5	36,000	60.6	245.6	39,000	63.4	247.8	37,300	90
95	54.2	238.1	34,300	58.2	242.7	36,400	61.1	245.2	34,700	95
100	51.6	234.3	32,600	55.8	239.4	34,100	58.8	242.3	32,500	100
105	49.0	230.1	30,900	53.3	235.9	32,000	56.3	239.1	30,500	105
110	46.2	225.6	29,300	50.7	232.0	30,100	53.8	235.7	28,600	110
115	43.3	220.5	27,800	48.0	227.7	28,300	51.3	231.8	27,000	115
120	40.2	214.9	26,300	45.2	222.9	26,800	48.6	227.6	25,500	120
125	36.9	208.6	24,900	42.2	217.7	25,300	45.8	223.0	24,100	125
130	33.4	201.5	23,600	39.1	211.9	24,000	42.9	217.9	22,900	130
135	29.5	193.4	22,400	35.7	205.3	22,800	39.8	212.2	21,700	135
140	25.0	183.6	21,200	32.0	197.9	21,700	36.5	205.8	20,600	140
145	19.6	171.4	20,200	27.9	189.2	20,600	32.9	198.6	19,600	145
150	12.1	153.8	19,400	23.2	178.7	19,700	28.9	190.2	18,700	150
155				17.2	165.1	18,700	24.3	180.2	17,800	155
160				7.8	142.6	17,800	18.7	167.5	17,000	160
165							10.6	148.3	16,100	165
170										170
175										175
180										180
185										185
190										190
195										195

MLC165-1 S-2

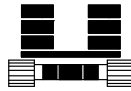
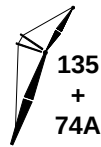
ASME B30.5



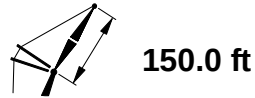
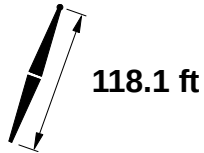
123,400 lb
+
45,100 lb



	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										100
105	61.1	242.8	28,000							105
110	58.8	239.9	26,300							110
115	56.3	236.7	24,800							115
120	53.8	233.2	23,400							120
125	51.3	229.4	22,100	56.2	233.3	20,100				125
130	48.6	225.2	20,900	53.7	229.8	19,000				130
135	45.8	220.6	19,800	51.1	225.9	18,000				135
140	42.9	215.5	18,800	48.5	221.7	17,100				140
145	39.8	209.8	17,900	45.7	217.1	16,200	50.9	221.4	14,500	145
150	36.5	203.4	17,000	42.7	211.9	15,400	48.2	217.1	13,800	150
155	32.9	196.2	16,200	39.6	206.2	14,600	45.4	212.4	13,100	155
160	28.9	187.8	15,400	36.3	199.8	13,900	42.4	207.2	12,400	160
165	24.3	177.8	14,700	32.7	192.5	13,300	39.3	201.4	11,800	165
170	18.7	165.1	14,000	28.7	184.1	12,600	35.9	194.9	11,300	170
175	10.6	146.0	13,400	24.1	174.0	12,000	32.3	187.5	10,700	175
180				18.4	161.1	11,500	28.2	178.9	10,200	180
185				10.1	141.5	10,900	23.5	168.6	9,700	185
190							17.7	155.3	9,200	190
195							8.7	134.0	8,700	195



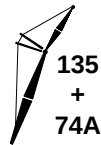
123,400 lb
+
45,100 lb



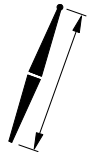
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
55	73.8	268.6	40,400 b							55
60	71.8	267.0	39,800							60
65	69.8	265.3	39,100							65
70	67.7	263.3	38,500							70
75	65.6	261.2	37,600	69.0	263.7	39,100				75
80	63.5	258.8	36,300	67.0	261.7	38,600				80
85	61.4	256.2	34,900	64.9	259.5	37,300	67.4	261.1	38,300	85
90	59.2	253.3	33,500	62.7	257.0	36,000	65.3	258.9	37,100	90
95	56.9	250.2	32,300	60.6	254.3	34,700	63.2	256.5	34,600	95
100	54.6	246.8	31,000	58.4	251.3	33,400	61.1	253.9	32,400	100
105	52.2	243.1	29,600	56.1	248.1	31,900	58.8	251.0	30,400	105
110	49.8	239.0	28,200	53.7	244.6	30,000	56.6	247.8	28,500	110
115	47.2	234.6	26,800	51.3	240.8	28,300	54.3	244.4	26,900	115
120	44.5	229.7	25,600	48.8	236.6	26,700	51.9	240.6	25,400	120
125	41.8	224.4	24,300	46.3	232.0	25,300	49.4	236.5	24,000	125
130	38.8	218.5	23,100	43.6	227.0	24,000	46.8	232.0	22,800	130
135	35.6	211.9	22,000	40.7	221.5	22,700	44.2	227.1	21,600	135
140	32.2	204.5	20,900	37.7	215.3	21,600	41.3	221.7	20,500	140
145	28.4	195.9	19,900	34.4	208.5	20,600	38.4	215.7	19,500	145
150	24.1	185.8	19,000	30.9	200.7	19,600	35.2	209.0	18,600	150
155	18.9	173.1	18,100	26.9	191.6	18,700	31.7	201.5	17,700	155
160	11.6	154.8	17,500	22.4	180.7	17,800	27.9	192.7	16,900	160
165				16.6	166.6	17,000	23.4	182.3	16,200	165
170				7.5	143.2	16,200	18.1	169.1	15,400	170
175							10.2	149.3	14,700	175
180										180
185										185
190										190
195										195
200										200
205										205

MLC165-1 S-2

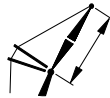
ASME B30.5



123,400 lb
+
45,100 lb

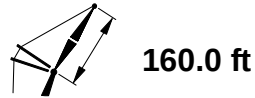
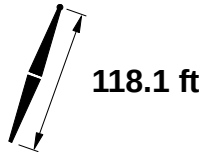
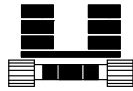
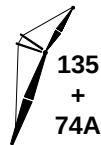


118.1 ft



150.0 ft

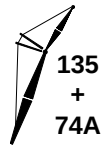
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110	61.1	251.5	26,200							110
115	58.9	248.6	24,700							115
120	56.6	245.4	23,300							120
125	54.3	242.0	22,000							125
130	51.9	238.2	20,800	56.5	242.0	18,900				130
135	49.4	234.1	19,700	54.2	238.5	17,900				135
140	46.8	229.6	18,700	51.8	234.7	17,000				140
145	44.2	224.7	17,800	49.3	230.6	16,100				145
150	41.4	219.3	16,900	46.7	226.1	15,300	51.5	230.2	13,700	150
155	38.4	213.3	16,100	44.0	221.2	14,600	49.0	226.0	13,000	155
160	35.2	206.6	15,400	41.2	215.8	13,900	46.4	221.5	12,400	160
165	31.7	199.1	14,700	38.2	209.7	13,200	43.7	216.5	11,800	165
170	27.9	190.3	14,000	35.0	203.0	12,600	40.9	211.0	11,200	170
175	23.5	179.9	13,400	31.6	195.4	12,000	37.9	204.9	10,700	175
180	18.1	166.7	12,800	27.7	186.6	11,400	34.7	198.1	10,100	180
185	10.3	146.9	12,200	23.2	176.1	10,900	31.1	190.4	9,700	185
190				17.8	162.7	10,400	27.2	181.4	9,200	190
195				9.8	142.3	9,900	22.7	170.7	8,800	195
200							17.1	156.8	8,300	200
205							8.4	134.7	7,900	205



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	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	35,200				80
85	63.3	267.5	31,700	66.5	270.4	33,900				85
90	61.3	264.8	30,400	64.6	268.2	32,700	67.0	269.9	33,900	90
95	59.2	262.0	29,200	62.6	265.7	31,400	65.0	267.6	32,700	95
100	57.1	258.9	27,900	60.5	263.0	30,200	63.0	265.2	31,600	100
105	54.9	255.5	26,800	58.5	260.0	29,000	61.0	262.5	30,000	105
110	52.7	251.8	25,600	56.3	256.8	27,800	58.9	259.6	28,200	110
115	50.4	247.9	24,500	54.2	253.3	26,600	56.8	256.5	26,600	115
120	48.1	243.6	23,400	51.9	249.6	25,500	54.6	253.1	25,100	120
125	45.6	238.9	22,300	49.6	245.5	24,300	52.4	249.4	23,700	125
130	43.1	233.8	21,400	47.2	241.0	23,300	50.1	245.4	22,500	130
135	40.4	228.2	20,400	44.7	236.2	22,200	47.7	241.0	21,300	135
140	37.5	222.0	19,500	42.1	230.9	21,200	45.3	236.3	20,200	140
145	34.5	215.1	18,600	39.4	225.1	20,300	42.7	231.1	19,300	145
150	31.2	207.3	17,800	36.4	218.7	19,400	40.0	225.4	18,300	150
155	27.5	198.4	17,000	33.3	211.5	18,500	37.1	219.1	17,500	155
160	23.3	187.9	16,300	29.9	203.4	17,600	34.0	212.1	16,700	160
165	18.3	174.7	15,600	26.1	194.0	16,800	30.7	204.2	15,900	165
170	11.3	155.8	14,700	21.7	182.7	16,100	27.0	195.2	15,200	170
175				16.1	168.1	15,300	22.7	184.3	14,500	175
180				7.3	143.9	14,500	17.5	170.7	13,800	180
185							9.9	150.1	13,200	185
190										190
195										195
200										200
205										205
210										210
215										215

MLC165-1 S-2

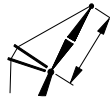
ASME B30.5



123,400 lb
+
45,100 lb

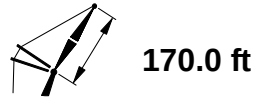
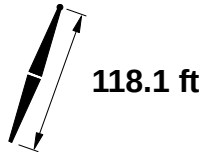
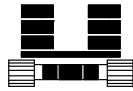
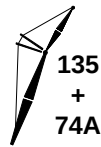


118.1 ft



160.0 ft

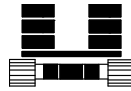
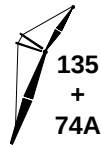
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110										110
115	61.0	260.1	24,300							115
120	58.9	257.2	22,900							120
125	56.8	254.1	21,600							125
130	54.6	250.7	20,500							130
135	52.4	247.0	19,400	56.7	250.7	17,500				135
140	50.1	243.0	18,400	54.5	247.2	16,600				140
145	47.7	238.6	17,500	52.3	243.5	15,700				145
150	45.3	233.9	16,600	50.0	239.5	14,900				150
155	42.7	228.7	15,800	47.6	235.1	14,200	52.1	239.0	12,600	155
160	40.0	223.0	15,100	45.2	230.4	13,500	49.8	234.9	12,000	160
165	37.1	216.7	14,400	42.6	225.2	12,900	47.4	230.5	11,400	165
170	34.0	209.7	13,700	39.9	219.4	12,200	44.9	225.7	10,800	170
175	30.7	201.9	13,100	37.0	213.1	11,700	42.3	220.4	10,300	175
180	27.0	192.8	12,500	33.9	206.1	11,100	39.5	214.7	9,800	180
185	22.7	182.0	11,900	30.5	198.2	10,600	36.6	208.3	9,300	185
190	17.5	168.3	11,400	26.8	189.0	10,100	33.5	201.2	8,900	190
195	9.9	147.8	10,800	22.5	178.1	9,600	30.1	193.1	8,400	195
200				17.2	164.3	9,200	26.3	183.8	8,000	200
205				9.4	143.2	8,700	22.0	172.6	7,600	205
210							16.5	158.3	7,200	210
215							8.1	135.4	6,800	215



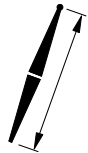
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
60	74.0	287.9	33,900							60
65	72.2	286.4	33,300							65
70	70.4	284.7	32,500							70
75	68.6	282.9	31,600							75
80	66.8	280.8	30,300	69.8	283.2	32,300				80
85	65.0	278.6	29,100	68.0	281.3	31,100				85
90	63.1	276.1	27,900	66.2	279.2	30,000				90
95	61.2	273.5	26,700	64.3	276.8	28,800	66.6	278.6	29,900	95
100	59.3	270.6	25,500	62.4	274.3	27,600	64.7	276.3	28,800	100
105	57.3	267.5	24,400	60.5	271.6	26,400	62.8	273.9	27,700	105
110	55.2	264.2	23,200	58.5	268.7	25,300	60.9	271.2	26,600	110
115	53.2	260.6	22,200	56.6	265.5	24,100	59.0	268.3	25,500	115
120	51.0	256.7	21,100	54.5	262.1	23,000	57.0	265.2	24,400	120
125	48.8	252.5	20,100	52.4	258.4	22,000	55.0	261.8	23,300	125
130	46.6	247.9	19,200	50.2	254.4	20,900	52.9	258.2	22,200	130
135	44.2	243.0	18,200	48.0	250.0	19,900	50.7	254.2	21,100	135
140	41.7	237.6	17,300	45.7	245.3	19,000	48.5	250.0	20,000	140
145	39.1	231.8	16,500	43.3	240.3	18,100	46.2	245.4	19,000	145
150	36.4	225.3	15,600	40.8	234.7	17,200	43.8	240.4	18,100	150
155	33.4	218.1	14,800	38.1	228.6	16,300	41.4	234.9	17,300	155
160	30.2	210.1	13,800	35.3	221.9	15,600	38.7	229.0	16,400	160
165	26.7	200.8	12,900	32.3	214.5	14,500	36.0	222.4	15,700	165
170	22.6	189.9	12,000	29.0	206.0	13,600	33.0	215.1	14,900	170
175	17.7	176.3	11,200	25.3	196.3	12,700	29.7	206.9	13,800	175
180	10.9	156.8	10,500	21.0	184.6	11,800	26.1	197.5	12,900	180
185				15.6	169.5	11,000	22.0	186.3	12,000	185
190				7.0	144.5	10,400	17.0	172.2	11,200	190
195							9.6	151.0	10,500	195
200										200
205										205
210										210
215										215
220										220
225										225

MLC165-1 S-2

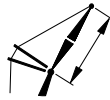
ASME B30.5



123,400 lb
+
45,100 lb

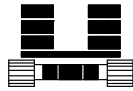
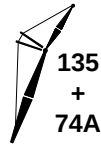


118.1 ft

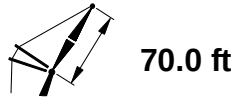
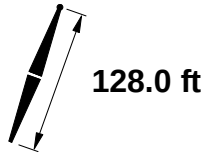


170.0 ft

	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	24,000							115
120	60.9	268.8	22,700							120
125	59.0	265.9	21,400							125
130	57.0	262.8	20,200							130
135	55.0	259.4	19,200							135
140	52.9	255.8	18,200	56.9	259.3	16,300				140
145	50.7	251.8	17,200	54.9	255.9	15,500				145
150	48.5	247.6	16,400	52.8	252.3	14,700				150
155	46.2	243.0	15,600	50.6	248.3	14,000				155
160	43.9	238.0	14,800	48.4	244.1	13,300	52.5	247.7	11,700	160
165	41.4	232.5	14,100	46.1	239.5	12,600	50.4	243.8	11,100	165
170	38.7	226.6	13,500	43.7	234.4	12,000	48.2	239.5	10,600	170
175	36.0	220.0	12,900	41.2	229.0	11,400	45.9	234.8	10,100	175
180	33.0	212.8	12,300	38.6	223.0	10,900	43.5	229.7	9,600	180
185	29.7	204.6	11,700	35.8	216.4	10,400	41.0	224.2	9,100	185
190	26.2	195.1	11,200	32.8	209.1	9,900	38.3	218.2	8,600	190
195	22.0	183.9	10,700	29.6	200.9	9,400	35.5	211.5	8,200	195
200	17.0	169.8	10,200	26.0	191.4	9,000	32.5	204.1	7,800	200
205	9.6	148.7	9,700	21.8	180.1	8,600	29.2	195.7	7,400	205
210				16.7	165.8	8,200	25.5	186.1	7,000	210
215				9.2	144.0	7,700	21.3	174.5	6,700	215
220							16.0	159.7	6,300	220
225							7.9	136.1	6,000	225



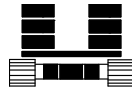
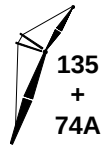
123,400 lb
+
45,100 lb



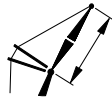
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
32	74.8	201.9	90,100 d							32
34	73.1	201.3	90,100 d							34
36	71.3	200.7	90,000 d							36
38	69.6	200.0	89,900 d							38
40	67.8	199.2	89,600 c							40
45	63.4	196.9	82,600 c							45
50	58.7	194.2	75,100 b	66.9	197.8	83,700 c				50
55	53.7	190.8	69,000 b	62.3	195.4	74,800 c				55
60	48.5	186.8	64,000 b	57.6	192.5	66,900 b	63.8	195.1	64,100 c	60
65	42.8	181.9	59,800	52.6	189.0	60,500 b	59.1	192.4	57,900 b	65
70	36.3	175.8	56,300	47.3	184.8	55,100	54.2	189.1	52,800 b	70
75	28.7	168.0	53,400	41.4	179.7	50,500	49.0	185.2	48,400 b	75
80	18.5	156.5	49,100	34.8	173.3	46,600	43.3	180.4	44,600	80
85				26.7	164.9	43,100	37.0	174.4	41,300	85
90				15.3	151.9	40,000	29.5	166.8	38,400	90
95							19.7	155.9	35,800	95
100										100
105										105
110										110
115										115
120										120
125										125
130										130

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ASME B30.5



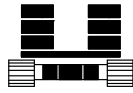
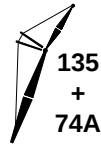
123,400 lb
+
45,100 lb



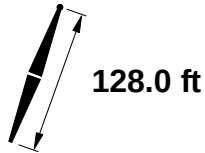
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
32										32
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75	60.0	190.3	44,800 b							75
80	55.1	187.1	41,300 b							80
85	49.9	183.3	38,200 b							85
90	44.4	178.6	35,600	55.7	184.0	32,700 b				90
95	38.1	172.9	33,200	50.6	180.2	30,500 b				95
100	30.9	165.7	31,000	45.0	175.7	28,600				100
105	21.7	155.6	29,100	38.9	170.1	26,800	50.8	176.0	24,500 b	105
110				31.8	163.1	25,200	45.3	171.5	23,000	110
115				22.9	153.4	23,700	39.2	166.0	21,700	115
120				7.1	134.8	22,200	32.2	159.0	20,400	120
125							23.4	149.5	19,300	125
130							8.5	132.1	18,100	130

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ASME B30.5



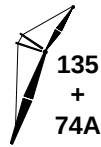
123,400 lb
+
45,100 lb



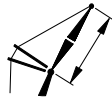
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
36	73.7	211.2	82,500 d							36
38	72.2	210.6	82,300 d							38
40	70.7	209.9	82,200 c							40
45	66.9	207.9	79,500 c							45
50	62.9	205.6	74,300 b	69.9	208.5	79,800 c				50
55	58.8	202.8	68,400 b	66.0	206.5	74,400 c				55
60	54.6	199.5	63,300 b	62.0	204.1	66,600 b	67.3	206.1	63,700 c	60
65	50.0	195.7	59,000	57.9	201.2	60,200 b	63.3	203.8	57,600 b	65
70	45.2	191.1	55,400	53.6	197.8	54,800	59.3	201.1	52,400 b	70
75	39.9	185.6	52,400	49.0	193.8	50,300	55.0	197.8	48,100 b	75
80	33.9	179.0	49,100	44.0	189.0	46,400	50.5	194.0	44,300	80
85	26.8	170.4	45,400	38.6	183.3	42,900	45.7	189.5	41,000	85
90	17.3	158.1	42,200	32.4	176.3	39,900	40.4	184.2	38,200	90
95				25.0	167.2	37,200	34.5	177.7	35,600	95
100				14.3	153.2	34,800	27.6	169.4	33,300	100
105							18.4	157.6	31,200	105
110										110
115										115
120										120
125										125
130										130
135										135
140										140

MLC165-1 S-2

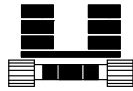
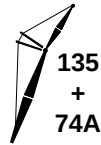
ASME B30.5



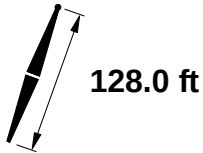
123,400 lb
+
45,100 lb



	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										70
75										75
80	60.0	199.0	40,900 b							80
85	55.7	195.8	37,900 b							85
90	51.3	192.1	35,200							90
95	46.5	187.8	32,900	56.2	192.7	30,100 b				95
100	41.4	182.6	30,700	51.8	189.0	28,200				100
105	35.6	176.3	28,800	47.1	184.8	26,400				105
110	28.9	168.3	27,100	42.0	179.7	24,800	52.0	184.8	22,600	110
115	20.3	157.4	25,500	36.3	173.5	23,400	47.3	180.5	21,300	115
120				29.7	165.8	22,100	42.2	175.5	20,100	120
125				21.4	155.4	20,800	36.6	169.4	19,000	125
130				6.6	135.4	19,600	30.1	161.8	17,900	130
135							21.9	151.6	16,900	135
140							8.0	132.8	16,000	140



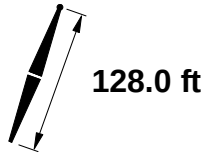
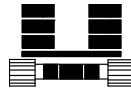
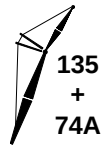
123,400 lb
+
45,100 lb



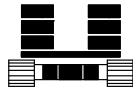
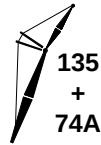
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
38	74.3	221.0	75,400 d							38
40	72.9	220.4	75,200 c							40
45	69.6	218.7	74,800 c							45
50	66.1	216.7	72,100 b							50
55	62.6	214.3	67,700 b	68.8	217.3	72,400 c				55
60	59.0	211.5	62,800 b	65.4	215.2	66,400 b				60
65	55.2	208.2	58,500	61.8	212.8	60,000 b	66.5	214.8	57,400 b	65
70	51.2	204.5	54,800	58.1	209.9	54,700 b	63.0	212.5	52,200 b	70
75	47.0	200.2	51,600	54.3	206.5	50,100	59.3	209.7	47,900 b	75
80	42.5	195.1	48,400	50.3	202.7	46,200	55.6	206.5	44,100	80
85	37.5	189.2	44,800	46.0	198.2	42,800	51.6	202.8	40,900	85
90	31.9	181.9	41,500	41.4	192.9	39,800	47.4	198.6	38,000	90
95	25.3	172.8	38,700	36.3	186.7	37,200	42.9	193.6	35,500	95
100	16.3	159.6	36,200	30.5	179.2	34,800	38.0	187.7	33,200	100
105				23.5	169.4	32,700	32.5	180.7	31,200	105
110				13.5	154.4	30,700	26.0	171.7	29,300	110
115							17.3	159.1	27,600	115
120										120
125										125
130										130
135										135
140										140
145										145
150										150

MLC165-1 S-2

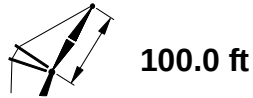
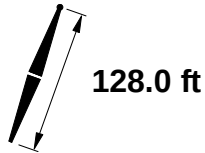
ASME B30.5



	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	60.0	207.6	37,700 b							85
90	56.2	204.5	35,000							90
95	52.3	200.9	32,700							95
100	48.1	196.7	30,600	56.7	201.4	27,900				100
105	43.7	191.9	28,700	52.8	197.8	26,200				105
110	38.9	186.2	27,000	48.6	193.7	24,600				110
115	33.5	179.4	25,400	44.3	189.0	23,200	53.0	193.5	21,000	115
120	27.2	170.8	24,000	39.5	183.4	21,900	48.8	189.5	19,800	120
125	19.1	159.1	22,700	34.2	176.7	20,700	44.5	184.8	18,800	125
130				28.0	168.4	19,600	39.7	179.2	17,700	130
135				20.2	157.2	18,600	34.4	172.6	16,800	135
140				6.2	136.0	17,500	28.3	164.4	15,900	140
145							20.6	153.4	15,100	145
150							7.5	133.5	14,300	150



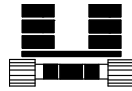
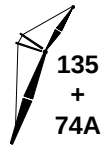
123,400 lb
+
45,100 lb



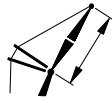
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
40	74.7	230.8	69,300 c							40
45	71.7	229.3	68,900 c							45
50	68.7	227.5	68,500 b							50
55	65.5	225.4	65,400 b							55
60	62.4	222.9	61,600 b	68.0	226.1	65,900 b				60
65	59.1	220.1	57,700	64.8	223.9	59,700 b				65
70	55.7	216.9	54,000	61.6	221.4	54,400	65.9	223.6	51,900 b	70
75	52.1	213.3	50,300	58.3	218.5	49,800	62.7	221.2	47,500 b	75
80	48.4	209.1	46,800	54.9	215.2	45,900	59.4	218.4	43,800	80
85	44.4	204.4	43,500	51.3	211.5	42,500	56.0	215.2	40,500	85
90	40.2	198.9	40,500	47.5	207.2	39,600	52.5	211.6	37,700	90
95	35.5	192.4	37,700	43.5	202.3	36,900	48.8	207.5	35,200	95
100	30.2	184.7	35,200	39.2	196.6	34,600	44.8	202.8	32,900	100
105	23.9	174.9	32,800	34.4	189.9	32,400	40.6	197.4	30,900	105
110	15.4	161.0	31,000	28.9	181.8	30,500	36.0	191.1	29,100	110
115				22.3	171.4	28,800	30.8	183.5	27,400	115
120				12.8	155.6	27,100	24.6	174.0	25,900	120
125							16.4	160.6	24,500	125
130										130
135										135
140										140
145										145
150										150
155										155
160										160

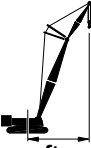
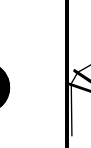
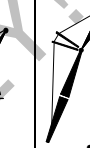
MLC165-1 S-2

ASME B30.5



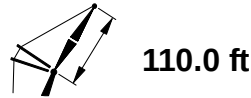
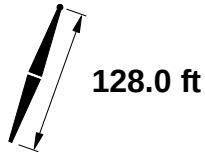
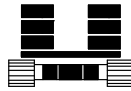
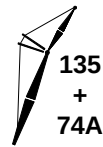
123,400 lb
+
45,100 lb



	75°			70°			65°			
										
	ft	ft	ft	lb	ft	ft	lb	ft	ft	lb
40										
45										
50										
55										
60										
65										
70										
75										
80										
85										
90	60.0	216.3	34,600							90
95	56.6	213.2	32,300							95
100	53.1	209.7	30,200							100
105	49.4	205.7	28,300	57.0	210.0	25,800				105
110	45.5	201.1	26,600	53.5	206.6	24,200				110
115	41.4	195.8	25,100	49.9	202.6	22,800				115
120	36.8	189.6	23,700	46.0	198.1	21,500				120
125	31.7	182.3	22,400	41.9	192.9	20,400	50.0	198.4	18,300	125
130	25.8	173.2	21,200	37.4	186.9	19,300	46.2	193.9	17,400	130
135	18.1	160.8	20,100	32.4	179.7	18,300	42.1	188.7	16,400	135
140				26.5	170.8	17,300	37.6	182.7	15,600	140
145				19.2	159.0	16,400	32.6	175.6	14,800	145
150				5.9	136.5	15,500	26.8	166.9	14,000	150
155							19.6	155.2	13,300	155
160							7.1	134.1	12,600	160

MLC165-1 S-2

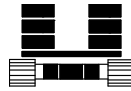
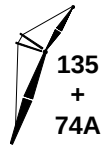
ASME B30.5



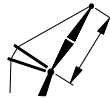
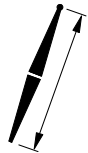
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
45	73.4	239.8	63,700 c							45
50	70.7	238.2	63,300 b							50
55	67.9	236.3	60,600 b							55
60	65.1	234.1	57,600	70.1	236.8	63,400 b				60
65	62.1	231.6	54,500	67.3	234.9	59,600 b				65
70	59.2	228.8	51,300	64.4	232.6	54,300				70
75	56.1	225.6	48,200	61.5	230.1	49,800	65.3	232.3	47,500 b	75
80	52.9	222.1	45,200	58.5	227.2	45,900	62.4	229.8	43,700	80
85	49.5	218.0	42,300	55.4	223.9	42,500	59.5	227.1	40,500	85
90	46.0	213.5	39,500	52.1	220.3	39,500	56.4	223.9	37,600	90
95	42.3	208.3	36,900	48.8	216.1	36,900	53.2	220.4	35,100	95
100	38.2	202.4	34,600	45.2	211.5	34,500	49.9	216.4	32,900	100
105	33.8	195.6	32,300	41.4	206.2	32,400	46.4	211.9	30,900	105
110	28.8	187.3	30,400	37.3	200.1	30,500	42.7	206.8	29,100	110
115	22.8	177.0	28,600	32.8	192.9	28,800	38.7	201.0	27,400	115
120	14.7	162.3	27,100	27.6	184.3	27,200	34.3	194.3	25,900	120
125				21.3	173.3	25,800	29.3	186.2	24,500	125
130				12.2	156.7	24,400	23.5	176.1	23,300	130
135							15.7	162.0	22,000	135
140										140
145										145
150										150
155										155
160										160
165										165
170										170

MLC165-1 S-2

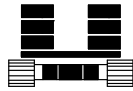
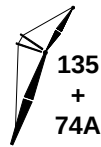
ASME B30.5



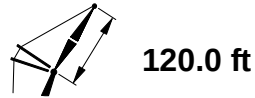
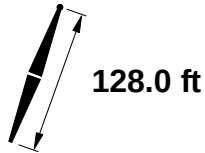
123,400 lb
+
45,100 lb



	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	34,600							90
95	60.0	224.9	32,200							95
100	56.9	221.9	30,200							100
105	53.7	218.4	28,300							105
110	50.4	214.5	26,600	57.3	218.7	24,200				110
115	47.0	210.1	25,100	54.1	215.3	22,800				115
120	43.3	205.2	23,700	50.8	211.5	21,500				120
125	39.4	199.5	22,400	47.4	207.1	20,300				125
130	35.1	192.9	21,300	43.7	202.2	19,300	51.0	207.2	17,300	130
135	30.2	185.1	20,200	39.8	196.6	18,300	47.6	202.9	16,400	135
140	24.6	175.4	19,200	35.6	190.2	17,300	43.9	198.0	15,600	140
145	17.3	162.3	18,200	30.8	182.5	16,500	40.0	192.5	14,800	145
150				25.3	173.1	15,700	35.8	186.0	14,000	150
155				18.3	160.6	14,900	31.1	178.5	13,300	155
160				5.6	137.0	14,100	25.6	169.2	12,700	160
165							18.6	156.9	12,100	165
170							6.8	134.7	11,400	170



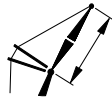
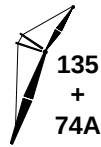
123,400 lb
+
45,100 lb



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	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	50,900	69.3	245.6	55,100 b				65
70	62.0	240.3	48,300	66.7	243.6	54,000				70
75	59.2	237.5	45,800	64.1	241.3	49,500	67.5	243.2	47,100	75
80	56.4	234.3	43,200	61.4	238.7	45,600	64.9	241.0	43,400	80
85	53.5	230.8	40,700	58.6	235.9	42,200	62.2	238.5	40,200	85
90	50.5	226.9	38,300	55.8	232.6	39,200	59.5	235.7	37,300	90
95	47.3	222.5	36,000	52.8	229.0	36,600	56.7	232.6	34,800	95
100	44.0	217.6	33,800	49.8	225.0	34,300	53.8	229.1	32,600	100
105	40.4	212.1	31,800	46.6	220.6	32,200	50.8	225.3	30,600	105
110	36.6	205.8	29,900	43.2	215.5	30,300	47.6	220.9	28,800	110
115	32.3	198.5	28,100	39.6	209.9	28,600	44.3	216.1	27,100	115
120	27.5	189.9	26,500	35.7	203.4	27,000	40.8	210.7	25,600	120
125	21.8	179.0	25,100	31.3	195.8	25,600	36.9	204.4	24,300	125
130	14.1	163.5	23,900	26.4	186.7	24,200	32.8	197.3	23,000	130
135				20.3	175.1	23,000	28.1	188.7	21,800	135
140				11.7	157.7	21,800	22.5	178.1	20,700	140
145							15.0	163.4	19,700	145
150										150
155										155
160										160
165										165
170										170
175										175
180										180

MLC165-1 S-2

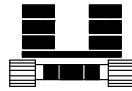
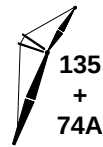
ASME B30.5



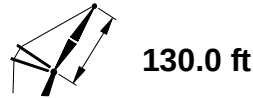
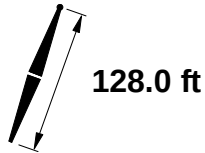
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100	62.7	236.3	31,900							100
105	60.0	233.6	29,800							105
110	57.2	230.6	27,900							110
115	54.3	227.1	26,300							115
120	51.3	223.3	24,800	57.5	227.4	22,400				120
125	48.2	219.1	23,400	54.6	224.0	21,100				125
130	44.9	214.4	22,100	51.6	220.3	20,000				130
135	41.4	209.0	20,900	48.5	216.1	18,900				135
140	37.6	203.0	19,900	45.3	211.4	17,900	51.8	216.0	16,000	140
145	33.5	196.0	18,900	41.8	206.1	17,000	48.7	211.8	15,200	145
150	28.9	187.7	17,900	38.1	200.2	16,100	45.4	207.2	14,400	150
155	23.5	177.5	17,100	34.0	193.3	15,400	42.0	202.0	13,700	155
160	16.5	163.8	16,200	29.5	185.2	14,600	38.3	196.0	13,000	160
165				24.2	175.3	13,900	34.2	189.2	12,300	165
170				17.5	162.2	13,200	29.7	181.2	11,700	170
175				5.4	137.5	12,500	24.5	171.4	11,200	175
180							17.8	158.5	10,600	180
							6.5	135.3	10,000	180

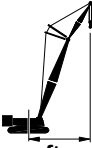
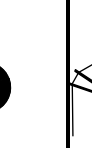
MLC165-1 S-2

ASME B30.5



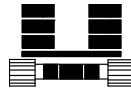
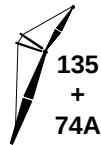
123,400 lb
+
45,100 lb



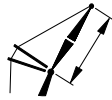
	87°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
50	73.7	259.2	45,800 b							50
55	71.4	257.6	45,100 b							55
60	69.1	255.8	44,300							60
65	66.7	253.8	43,600	70.9	256.3	45,100 b				65
70	64.3	251.5	42,900	68.6	254.4	44,600				70
75	61.8	248.9	42,000	66.2	252.3	44,100				75
80	59.3	246.1	40,000	63.7	250.0	43,600	67.0	251.9	43,100	80
85	56.7	243.0	38,000	61.3	247.4	42,000	64.5	249.7	39,900	85
90	54.0	239.5	36,100	58.7	244.5	39,000	62.1	247.2	37,100	90
95	51.2	235.7	34,200	56.1	241.3	36,400	59.5	244.4	34,600	95
100	48.4	231.5	32,300	53.4	237.8	34,100	56.9	241.3	32,400	100
105	45.3	226.8	30,500	50.6	233.9	32,000	54.3	237.9	30,400	105
110	42.1	221.6	28,800	47.7	229.6	30,100	51.5	234.1	28,600	110
115	38.7	215.7	27,200	44.6	224.8	28,400	48.6	229.9	26,900	115
120	35.1	209.1	25,700	41.4	219.4	26,800	45.6	225.2	25,400	120
125	31.0	201.4	24,300	38.0	213.4	25,400	42.5	220.1	24,100	125
130	26.4	192.2	23,000	34.2	206.5	24,100	39.1	214.3	22,800	130
135	21.0	180.9	21,900	30.1	198.5	22,900	35.4	207.7	21,700	135
140	13.5	164.7	20,900	25.3	189.0	21,700	31.4	200.1	20,600	140
145				19.5	176.9	20,700	26.9	191.2	19,600	145
150				11.2	158.7	19,700	21.6	180.1	18,600	150
155							14.4	164.7	17,700	155
160										160
165										165
170										170
175										175
180										180
185										185
190										190

MLC165-1 S-2

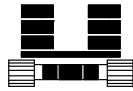
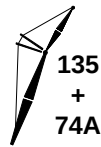
ASME B30.5



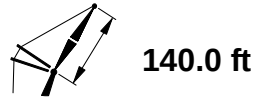
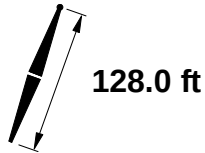
123,400 lb
+
45,100 lb



	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	62.5	245.0	29,500							100
105	60.0	242.3	27,700							105
110	57.4	239.2	26,000							110
115	54.7	235.9	24,500							115
120	52.0	232.1	23,100	57.7	236.1	20,900				120
125	49.1	228.0	21,900	55.1	232.7	19,700				125
130	46.2	223.5	20,700	52.3	229.1	18,700				130
135	43.0	218.4	19,700	49.5	225.0	17,700				135
140	39.7	212.7	18,700	46.5	220.5	16,800	52.5	224.8	14,900	140
145	36.1	206.3	17,700	43.4	215.5	15,900	49.6	220.7	14,100	145
150	32.2	198.9	16,900	40.1	209.9	15,100	46.7	216.3	13,400	150
155	27.7	190.2	16,100	36.5	203.5	14,400	43.5	211.3	12,800	155
160	22.6	179.6	15,300	32.6	196.3	13,700	40.2	205.7	12,100	160
165	15.9	165.2	14,600	28.3	187.8	13,100	36.7	199.4	11,500	165
170				23.2	177.4	12,400	32.8	192.2	11,000	170
175				16.8	163.7	11,800	28.5	183.8	10,400	175
180				5.2	137.9	11,200	23.5	173.5	9,900	180
185							17.1	160.0	9,400	185
190							6.2	135.9	8,900	190



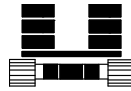
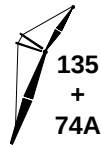
123,400 lb
+
45,100 lb



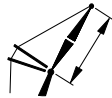
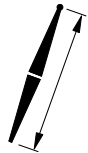
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
50	74.9	269.5	42,900 b							50
55	72.8	268.1	42,200 b							55
60	70.6	266.4	41,500							60
65	68.5	264.6	40,900							65
70	66.2	262.5	40,300	70.2	265.1	41,600				70
75	64.0	260.2	39,100	68.0	263.2	41,100				75
80	61.7	257.6	37,400	65.7	261.1	40,700				80
85	59.3	254.8	35,800	63.5	258.7	40,200	66.5	260.7	39,600	85
90	56.9	251.7	34,200	61.2	256.1	38,700	64.2	258.4	36,800	90
95	54.5	248.3	32,600	58.8	253.2	36,100	61.9	255.8	34,300	95
100	51.9	244.5	31,000	56.4	250.0	33,800	59.6	253.0	32,000	100
105	49.2	240.4	29,400	53.9	246.5	31,700	57.2	250.0	30,000	105
110	46.5	235.9	27,900	51.3	242.7	29,800	54.7	246.6	28,200	110
115	43.6	230.9	26,500	48.6	238.5	28,100	52.2	242.9	26,600	115
120	40.5	225.4	25,100	45.9	233.9	26,500	49.5	238.8	25,100	120
125	37.3	219.2	23,800	42.9	228.8	25,100	46.8	234.3	23,800	125
130	33.8	212.2	22,600	39.8	223.1	23,800	43.9	229.4	22,500	130
135	29.9	204.1	21,400	36.5	216.7	22,600	40.8	223.9	21,400	135
140	25.5	194.6	20,300	32.9	209.5	21,500	37.6	217.8	20,300	140
145	20.2	182.7	19,400	28.9	201.2	20,400	34.1	210.8	19,300	145
150	13.0	165.9	18,700	24.4	191.2	19,500	30.3	202.9	18,400	150
155				18.8	178.6	18,600	25.9	193.5	17,500	155
160				10.8	159.7	17,700	20.8	181.9	16,700	160
165							13.9	165.9	15,900	165
170										170
175										175
180										180
185										185
190										190
195										195
200										200

MLC165-1 S-2

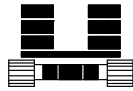
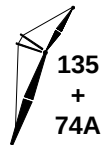
ASME B30.5



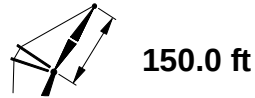
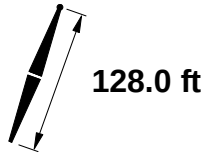
123,400 lb
+
45,100 lb



	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										100
105	62.3	253.7	27,300							105
110	60.0	250.9	25,700							110
115	57.6	247.9	24,200							115
120	55.1	244.6	22,800							120
125	52.6	240.9	21,500	57.9	244.7	19,300				125
130	50.0	236.9	20,400	55.4	241.4	18,300				130
135	47.2	232.5	19,300	52.9	237.8	17,300				135
140	44.4	227.6	18,300	50.3	233.9	16,400				140
145	41.4	222.3	17,400	47.6	229.5	15,600				145
150	38.2	216.2	16,600	44.7	224.7	14,800	50.4	229.6	13,000	150
155	34.7	209.5	15,800	41.7	219.4	14,100	47.7	225.3	12,400	155
160	31.0	201.7	15,000	38.6	213.4	13,400	44.9	220.5	11,700	160
165	26.7	192.7	14,300	35.2	206.8	12,700	41.9	215.2	11,200	165
170	21.7	181.5	13,700	31.4	199.2	12,100	38.7	209.3	10,600	170
175	15.3	166.6	13,000	27.3	190.3	11,500	35.3	202.7	10,100	175
180				22.4	179.4	11,000	31.6	195.1	9,600	180
185				16.2	165.1	10,500	27.5	186.3	9,100	185
190				5.0	138.4	9,900	22.6	175.6	8,700	190
195							16.5	161.5	8,200	195
200							6.0	136.4	7,800	200



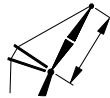
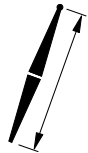
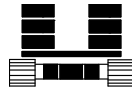
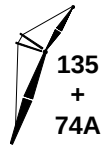
123,400 lb
+
45,100 lb



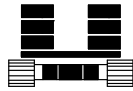
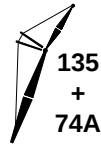
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
55	74.0	278.5	39,500 b							55
60	72.0	277.0	39,000							60
65	70.0	275.3	38,400							65
70	67.9	273.4	37,400							70
75	65.8	271.2	36,100	69.5	273.9	38,300				75
80	63.7	268.9	34,900	67.5	272.0	37,900				80
85	61.6	266.3	33,600	65.4	269.8	37,200				85
90	59.4	263.4	32,200	63.3	267.4	35,900	66.0	269.4	36,600	90
95	57.1	260.4	30,900	61.1	264.7	34,700	63.9	267.1	34,100	95
100	54.8	257.0	29,500	58.9	261.8	33,500	61.8	264.5	31,900	100
105	52.5	253.3	28,200	56.6	258.7	31,600	59.6	261.7	29,900	105
110	50.0	249.3	26,900	54.3	255.3	29,700	57.4	258.6	28,100	110
115	47.5	244.9	25,600	51.9	251.5	28,000	55.1	255.3	26,500	115
120	44.8	240.1	24,400	49.5	247.4	26,500	52.7	251.6	25,000	120
125	42.0	234.8	23,200	46.9	242.9	25,000	50.3	247.7	23,700	125
130	39.1	229.0	22,100	44.2	238.0	23,700	47.7	243.3	22,400	130
135	36.0	222.5	21,000	41.4	232.6	22,500	45.1	238.5	21,300	135
140	32.6	215.1	20,000	38.4	226.6	21,400	42.3	233.3	20,200	140
145	28.8	206.7	19,000	35.2	220.0	20,400	39.4	227.5	19,200	145
150	24.6	196.8	18,200	31.8	212.4	19,400	36.3	221.1	18,300	150
155	19.5	184.4	17,400	27.9	203.7	18,500	32.9	213.8	17,500	155
160	12.6	167.0	16,800	23.5	193.3	17,700	29.2	205.6	16,700	160
165				18.2	180.2	16,900	25.0	195.8	15,900	165
170				10.4	160.6	16,100	20.1	183.7	15,200	170
175							13.4	167.1	14,500	175
180										180
185										185
190										190
195										195
200										200
205										205
210										210

MLC165-1 S-2

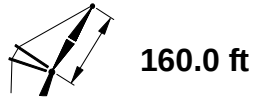
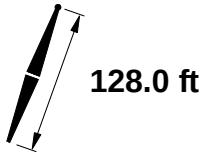
ASME B30.5



	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	62.2	262.4	25,600							110
115	60.0	259.6	24,000							115
120	57.7	256.6	22,700							120
125	55.5	253.3	21,400							125
130	53.1	249.7	20,300							130
135	50.7	245.8	19,200	55.7	250.1	17,200				135
140	48.2	241.5	18,200	53.4	246.6	16,300				140
145	45.5	236.8	17,300	51.0	242.7	15,500				145
150	42.8	231.6	16,500	48.5	238.4	14,700				150
155	39.9	226.0	15,700	45.9	233.8	14,000	51.1	238.4	12,300	155
160	36.8	219.6	15,000	43.1	228.7	13,300	48.6	234.2	11,700	160
165	33.5	212.5	14,300	40.3	223.1	12,700	46.0	229.6	11,100	165
170	29.9	204.5	13,600	37.2	216.9	12,100	43.3	224.5	10,500	170
175	25.8	195.0	13,000	33.9	209.9	11,500	40.4	218.9	10,000	175
180	21.0	183.4	12,400	30.3	201.9	10,900	37.4	212.7	9,500	180
185	14.8	167.9	11,800	26.3	192.6	10,400	34.1	205.8	9,100	185
190				21.6	181.4	9,900	30.5	197.9	8,600	190
195				15.6	166.5	9,500	26.5	188.7	8,200	195
200				4.8	138.8	9,000	21.8	177.5	7,800	200
205							15.9	162.9	7,400	205
210							5.8	136.9	7,000	210



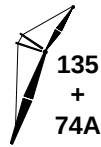
123,400 lb
+
45,100 lb



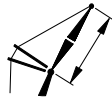
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
60	73.1	287.5	35,900							60
65	71.3	285.9	35,000							65
70	69.4	284.1	34,200							70
75	67.4	282.1	33,100	70.8	284.6	35,500				75
80	65.5	279.9	32,200	68.9	282.7	35,000				80
85	63.5	277.5	31,100	67.0	280.7	33,800				85
90	61.5	274.9	30,100	65.0	278.5	32,600	67.6	280.3	33,800	90
95	59.4	272.1	28,900	63.1	276.1	31,500	65.7	278.1	32,700	95
100	57.3	269.0	27,800	61.0	273.4	30,300	63.7	275.8	31,600	100
105	55.2	265.7	26,700	59.0	270.5	29,100	61.7	273.2	29,600	105
110	53.0	262.1	25,600	56.8	267.4	27,900	59.6	270.4	27,800	110
115	50.7	258.1	24,500	54.7	264.0	26,800	57.5	267.3	26,200	115
120	48.3	253.9	23,500	52.5	260.3	25,600	55.4	264.0	24,700	120
125	45.9	249.2	22,400	50.2	256.3	24,500	53.2	260.4	23,400	125
130	43.3	244.1	21,400	47.8	251.9	23,500	50.9	256.5	22,100	130
135	40.7	238.6	20,500	45.3	247.2	22,300	48.6	252.3	21,000	135
140	37.8	232.5	19,500	42.7	242.0	21,200	46.1	247.6	19,900	140
145	34.8	225.7	18,600	40.0	236.3	20,100	43.6	242.6	18,900	145
150	31.5	218.0	17,800	37.2	230.1	19,200	40.9	237.1	18,000	150
155	27.9	209.2	17,000	34.1	223.1	18,300	38.1	231.0	17,200	155
160	23.8	198.9	16,300	30.7	215.2	17,400	35.1	224.3	16,400	160
165	18.9	186.1	15,600	27.0	206.2	16,600	31.9	216.8	15,600	165
170	12.2	168.1	14,800	22.8	195.4	15,900	28.3	208.1	14,900	170
175				17.6	181.8	15,200	24.2	198.0	14,300	175
180				10.1	161.5	14,500	19.4	185.5	13,600	180
185							13.0	168.3	13,000	185
190										190
195										195
200										200
205										205
210										210
215										215
220										220

MLC165-1 S-2

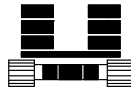
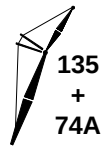
ASME B30.5



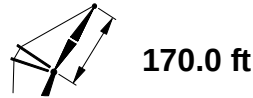
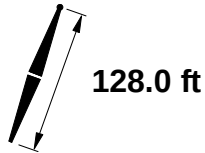
123,400 lb
+
45,100 lb



	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	23,700							115
120	60.0	268.2	22,300							120
125	57.9	265.2	21,100							125
130	55.8	262.0	19,900							130
135	53.6	258.4	18,900							135
140	51.3	254.6	17,900	56.0	258.8	15,900				140
145	49.0	250.4	17,000	53.8	255.3	15,100				145
150	46.5	245.9	16,200	51.6	251.5	14,300				150
155	44.0	240.9	15,400	49.2	247.4	13,600				155
160	41.4	235.5	14,600	46.8	242.9	12,900	51.7	247.2	11,300	160
165	38.6	229.5	14,000	44.3	238.0	12,300	49.4	243.1	10,700	165
170	35.6	222.9	13,300	41.7	232.6	11,700	47.0	238.6	10,200	170
175	32.4	215.5	12,700	38.9	226.7	11,200	44.4	233.8	9,600	175
180	28.9	207.1	12,100	36.0	220.2	10,600	41.8	228.4	9,200	180
185	25.0	197.2	11,600	32.8	212.9	10,100	39.1	222.5	8,700	185
190	20.3	185.2	11,000	29.4	204.6	9,600	36.1	216.1	8,300	190
195	14.3	169.2	10,500	25.5	194.9	9,200	33.0	208.8	7,900	195
200				20.9	183.3	8,700	29.5	200.6	7,500	200
205				15.1	167.9	8,300	25.7	191.0	7,100	205
210				4.7	139.2	7,900	21.1	179.4	6,700	210
215							15.4	164.3	6,400	215
220							5.6	137.4	6,000	220



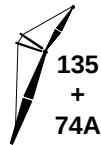
123,400 lb
+
45,100 lb



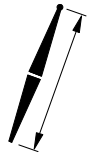
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
60	74.2	297.9	32,500							60
65	72.4	296.4	31,900							65
70	70.6	294.7	31,200							70
75	68.8	292.9	30,300							75
80	67.0	290.9	29,500	70.2	293.4	31,500				80
85	65.2	288.6	28,700	68.4	291.5	31,000				85
90	63.3	286.2	27,800	66.6	289.4	29,900				90
95	61.4	283.6	26,600	64.8	287.2	28,800	67.2	289.0	29,600	95
100	59.5	280.8	25,500	62.9	284.7	27,700	65.4	286.8	28,900	100
105	57.5	277.7	24,300	61.0	282.1	26,600	63.5	284.4	27,900	105
110	55.5	274.4	23,200	59.0	279.2	25,400	61.6	281.8	26,800	110
115	53.4	270.8	22,200	57.0	276.0	24,300	59.7	279.0	25,800	115
120	51.3	266.9	21,200	55.0	272.7	23,200	57.7	276.0	24,500	120
125	49.1	262.8	20,200	52.9	269.0	22,200	55.7	272.7	23,100	125
130	46.8	258.3	19,200	50.8	265.1	21,200	53.6	269.1	21,900	130
135	44.4	253.4	18,300	48.6	260.9	20,200	51.5	265.3	20,800	135
140	42.0	248.0	17,400	46.3	256.3	19,200	49.3	261.2	19,700	140
145	39.4	242.2	16,600	43.9	251.3	18,300	47.0	256.7	18,700	145
150	36.6	235.8	15,800	41.4	245.9	17,400	44.7	251.8	17,800	150
155	33.7	228.7	14,900	38.8	239.9	16,600	42.2	246.5	17,000	155
160	30.6	220.8	13,900	36.0	233.4	15,700	39.6	240.8	16,200	160
165	27.1	211.7	13,000	33.0	226.1	14,800	36.9	234.4	15,400	165
170	23.1	201.0	12,100	29.8	217.9	13,800	34.0	227.4	14,700	170
175	18.3	187.7	11,300	26.2	208.5	12,900	30.9	219.6	14,100	175
180	11.8	169.2	10,600	22.1	197.4	12,000	27.4	210.6	13,300	180
185				17.1	183.3	11,300	23.5	200.1	12,300	185
190				9.8	162.4	10,500	18.8	187.2	11,500	190
195							12.6	169.4	10,800	195
200										200
205										205
210										210
215										215
220										220
225										225
230										230

MLC165-1 S-2

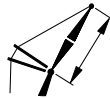
ASME B30.5



123,400 lb
+
45,100 lb



128.0 ft

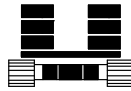
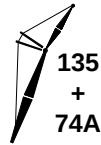


170.0 ft

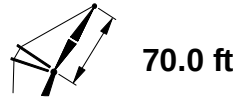
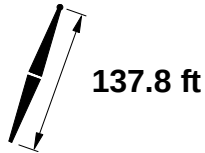
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110										110
115										115
120	61.9	279.7	22,100							120
125	60.0	276.9	20,800							125
130	58.0	273.9	19,700							130
135	56.0	270.7	18,600							135
140	54.0	267.2	17,700							140
145	51.8	263.4	16,800	56.2	267.5	14,800				145
150	49.7	259.3	15,900	54.2	264.0	14,100				150
155	47.4	254.9	15,100	52.1	260.3	13,400				155
160	45.1	250.1	14,400	49.9	256.2	12,700				160
165	42.6	244.9	13,700	47.7	251.9	12,100	52.2	256.0	10,400	165
170	40.1	239.2	13,100	45.4	247.1	11,500	50.0	252.0	9,900	170
175	37.4	233.0	12,500	42.9	242.0	10,900	47.8	247.6	9,400	175
180	34.5	226.1	11,900	40.4	236.3	10,400	45.5	242.9	8,900	180
185	31.4	218.4	11,400	37.7	230.2	9,900	43.1	237.8	8,500	185
190	28.0	209.6	10,800	34.9	223.4	9,400	40.5	232.2	8,000	190
195	24.2	199.4	10,300	31.8	215.8	9,000	37.9	226.0	7,600	195
200	19.7	187.0	9,900	28.5	207.2	8,500	35.0	219.3	7,200	200
205	13.9	170.4	9,400	24.7	197.2	8,100	32.0	211.7	6,800	205
210				20.3	185.1	7,700	28.6	203.1	6,500	210
215				14.7	169.2	7,400	24.9	193.2	6,100	215
220				4.5	139.6	6,900	20.5	181.3	5,700	220
225							15.0	165.6	5,300	225
230							5.5	137.9	5,000	230

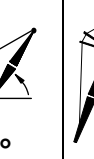
MLC165-1 S-2

ASME B30.5



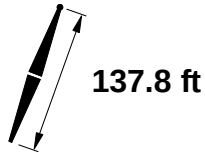
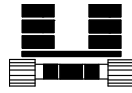
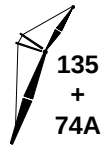
123,400 lb
+
45,100 lb



	87°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	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	72,900 b	67.9	208.1	81,300 c				50
55	54.3	201.0	67,100 b	63.4	205.8	74,200 c				55
60	49.0	197.1	62,300 b	58.8	203.0	66,500 b	65.4	205.6	63,300 c	60
65	43.4	192.3	58,300	53.8	199.7	60,100 b	60.8	203.1	57,200 b	65
70	37.0	186.3	55,000	48.6	195.7	54,700 b	55.9	200.0	52,100 b	70
75	29.6	178.7	52,200	42.9	190.8	50,200	50.8	196.3	47,800 b	75
80	19.7	167.8	49,100	36.4	184.8	46,300	45.3	191.8	44,100	80
85				28.8	177.0	42,800	39.3	186.3	40,800	85
90				18.7	165.6	39,800	32.3	179.4	37,900	90
95							23.5	169.9	35,400	95
100							8.7	152.6	33,000	100
105										105
110										110
115										115
120										120
125										125
130										130

MLC165-1 S-2

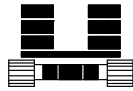
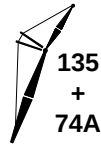
ASME B30.5



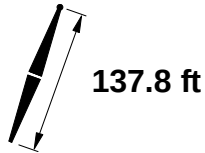
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75	62.3	201.2	43,900 c							75
80	57.6	198.3	40,400 b							80
85	52.6	194.8	37,400 b							85
90	47.3	190.6	34,800							90
95	41.4	185.5	32,500	54.0	192.1	29,500 b				95
100	34.8	179.1	30,400	48.8	188.1	27,600 b				100
105	26.8	170.7	28,500	43.1	183.3	25,900				105
110	15.3	157.7	26,700	36.7	177.3	24,400	49.9	184.2	22,000 b	110
115				29.2	169.6	22,900	44.3	179.6	20,700	115
120				19.2	158.5	21,600	38.1	173.9	19,500	120
125							30.9	166.6	18,400	125
130							21.6	156.4	17,400	130

MLC165-1 S-2

ASME B30.5



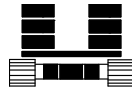
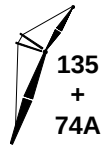
123,400 lb
+
45,100 lb



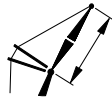
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
36	74.1	221.1	79,000 d							36
38	72.6	220.5	78,900 d							38
40	71.1	219.9	78,700 c							40
45	67.3	218.0	77,200 c							45
50	63.4	215.7	72,100 b	70.8	218.7	77,400 c				50
55	59.3	213.0	66,300 b	67.0	216.8	72,600 c				55
60	55.0	209.7	61,500 b	63.0	214.5	66,100 b				60
65	50.5	205.9	57,400	58.9	211.7	59,800 b	64.7	214.3	56,900 b	65
70	45.7	201.4	54,000	54.6	208.4	54,400 b	60.7	211.8	51,800 b	70
75	40.4	196.1	50,900	50.1	204.6	49,900	56.5	208.7	47,500 b	75
80	34.6	189.6	47,100	45.3	200.0	46,000	52.1	205.1	43,800	80
85	27.6	181.3	43,800	40.0	194.6	42,600	47.4	200.9	40,500	85
90	18.5	169.5	41,000	34.0	187.9	39,600	42.3	195.8	37,700	90
95				26.9	179.4	37,000	36.6	189.7	35,200	95
100				17.5	167.2	34,600	30.1	182.2	32,900	100
105							22.0	171.9	30,900	105
110							8.1	153.3	28,900	110
115										115
120										120
125										125
130										130
135										135
140										140

MLC165-1 S-2

ASME B30.5



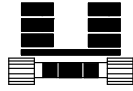
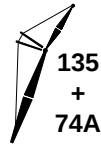
123,400 lb
+
45,100 lb



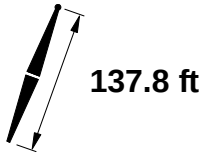
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80	62.0	209.9	40,000 b							80
85	57.9	207.0	37,000 b							85
90	53.6	203.6	34,400							90
95	49.0	199.6	32,100							95
100	44.0	194.8	30,100	54.8	200.8	27,200 b				100
105	38.6	189.2	28,200	50.3	197.0	25,500				105
110	32.5	182.1	26,500	45.5	192.5	24,000				110
115	25.0	173.0	25,000	40.2	187.1	22,600	51.3	193.0	20,300	115
120	14.3	159.0	23,500	34.3	180.5	21,300	46.5	188.7	19,100	120
125				27.3	172.1	20,100	41.3	183.5	18,000	125
130				18.0	160.1	19,000	35.6	177.2	17,100	130
135							28.9	169.2	16,100	135
140							20.2	158.3	15,300	140

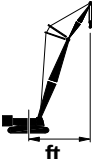
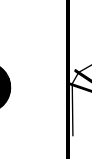
MLC165-1 S-2

ASME B30.5



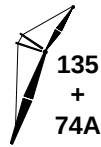
123,400 lb
+
45,100 lb



	87°			83°			80°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	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	65,300 b	69.6	227.6	70,200 c				55
60	59.4	221.6	60,800 b	66.2	225.5	65,900 b				60
65	55.6	218.4	56,700	62.7	223.2	59,600 b	67.7	225.3	56,600 b	65
70	51.6	214.7	52,900	59.0	220.4	54,300 b	64.2	223.0	51,600 b	70
75	47.4	210.5	49,200	55.2	217.1	49,700	60.6	220.4	47,300 b	75
80	42.9	205.5	45,700	51.3	213.4	45,900	56.9	217.4	43,600	80
85	38.0	199.6	42,400	47.1	209.1	42,500	53.0	213.9	40,300	85
90	32.5	192.6	39,500	42.5	204.0	39,500	48.9	209.8	37,500	90
95	26.0	183.7	36,800	37.6	198.1	36,900	44.5	205.1	35,000	95
100	17.4	171.1	34,700	32.0	190.9	34,500	39.8	199.6	32,800	100
105				25.4	181.8	32,400	34.5	192.9	30,800	105
110				16.5	168.7	30,500	28.4	184.8	28,900	110
115							20.7	173.8	27,300	115
120							7.6	154.0	25,700	120
125										125
130										130
135										135
140										140
145										145
150										150

MLC165-1 S-2

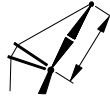
ASME B30.5



123,400 lb
+
45,100 lb



137.8 ft

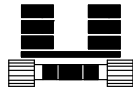
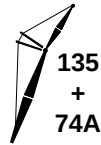


90.0 ft

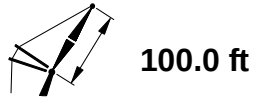
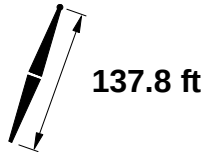
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90	61.8	218.6	36,800 b							90
95	58.1	215.7	34,200 b							95
100	54.3	212.3	31,900							100
105	50.3	208.5	29,900							105
110	46.0	204.0	28,000	55.4	209.5	25,300				110
115	41.4	198.7	26,400	51.4	205.8	23,800				115
120	36.3	192.5	24,800	47.2	201.5	22,400				120
125	30.6	185.0	23,500	42.7	196.5	21,100	52.3	201.8	18,900	125
130	23.6	175.2	22,200	37.8	190.6	20,000	48.1	197.7	17,800	130
135	13.5	160.3	20,900	32.3	183.5	18,900	43.7	192.8	16,800	135
140				25.7	174.4	17,900	38.9	187.1	16,000	140
145				16.9	161.6	17,000	33.5	180.3	15,100	145
150							27.2	171.7	14,300	150
							19.1	160.0	13,600	150

MLC165-1 S-2

ASME B30.5



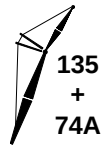
123,400 lb
+
45,100 lb



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	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	57,400 b	68.7	236.4	63,700 b				60
65	59.4	230.3	53,900	65.6	234.3	59,300 b				65
70	56.0	227.1	50,500	62.4	231.8	53,900 b	66.9	234.0	51,200 b	70
75	52.5	223.5	47,200	59.1	229.0	49,400	63.8	231.7	46,900 b	75
80	48.8	219.4	44,100	55.7	225.8	45,600	60.5	229.1	43,200	80
85	44.9	214.7	41,200	52.2	222.2	42,200	57.2	226.1	40,000	85
90	40.6	209.3	38,400	48.5	218.0	39,200	53.7	222.6	37,200	90
95	36.0	203.0	35,800	44.5	213.3	36,600	50.1	218.7	34,700	95
100	30.8	195.4	33,500	40.3	207.8	34,300	46.2	214.2	32,500	100
105	24.7	185.9	31,400	35.6	201.4	32,200	42.1	209.1	30,500	105
110	16.5	172.6	29,600	30.3	193.7	30,300	37.6	203.1	28,700	110
115				24.1	184.0	28,500	32.7	196.0	27,000	115
120				15.6	170.1	26,900	26.9	187.2	25,500	120
125							19.6	175.6	24,100	125
130							7.3	154.6	22,800	130
135										135
140										140
145										145
150										150
155										155
160										160

MLC165-1 S-2

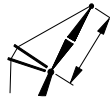
ASME B30.5



123,400 lb
+
45,100 lb

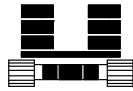
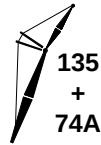


137.8 ft

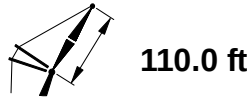
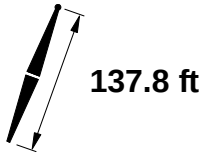


100.0 ft

	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	33,800							90
95	58.3	224.3	31,500							95
100	54.9	221.0	29,500							100
105	51.3	217.3	27,700							105
110	47.5	213.0	26,000	55.9	218.2	23,400				110
115	43.5	208.1	24,500	52.3	214.6	22,000				115
120	39.2	202.4	23,100	48.6	210.5	20,800				120
125	34.4	195.7	21,900	44.7	205.7	19,600				125
130	29.0	187.6	20,700	40.5	200.3	18,600	49.4	206.6	16,400	130
135	22.3	177.2	19,600	35.8	193.9	17,600	45.5	202.0	15,600	135
140	12.8	161.4	18,600	30.6	186.3	16,700	41.4	196.7	14,700	140
145				24.4	176.7	15,800	36.8	190.5	14,000	145
150				16.1	163.1	15,000	31.7	183.2	13,300	150
155							25.8	174.1	12,600	155
160							18.1	161.7	11,900	160



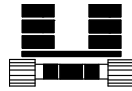
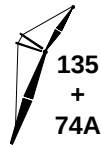
123,400 lb
+
45,100 lb



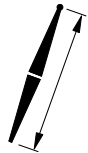
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
45	73.7	249.8	61,400 c							45
50	71.0	248.2	59,200 b							50
55	68.2	246.3	56,600 b							55
60	65.4	244.2	53,800 b	70.7	247.0	61,200 b				60
65	62.5	241.7	51,000	67.9	245.1	58,200 b				65
70	59.5	238.9	48,100	65.1	243.0	53,900				70
75	56.4	235.8	45,300	62.2	240.5	49,400	66.3	242.7	46,800 b	75
80	53.2	232.3	42,500	59.2	237.7	45,500	63.4	240.4	43,200	80
85	49.9	228.3	39,900	56.1	234.5	42,100	60.5	237.7	40,000	85
90	46.4	223.8	37,400	52.9	231.0	39,200	57.4	234.7	37,100	90
95	42.7	218.7	35,000	49.6	226.9	36,600	54.3	231.3	34,700	95
100	38.7	212.9	32,900	46.1	222.4	34,300	51.0	227.5	32,500	100
105	34.3	206.2	30,900	42.3	217.3	32,200	47.6	223.2	30,500	105
110	29.4	198.1	29,000	38.3	211.4	30,300	44.0	218.4	28,700	110
115	23.5	188.0	27,300	33.9	204.5	28,600	40.1	212.8	27,000	115
120	15.7	174.0	26,000	28.9	196.3	27,000	35.8	206.4	25,600	120
125				22.9	186.0	25,600	31.1	198.8	24,200	125
130				14.9	171.4	24,200	25.6	189.5	22,900	130
135							18.7	177.3	21,700	135
140							6.9	155.3	20,600	140
145										145
150										150
155										155
160										160
165										165
170										170

MLC165-1 S-2

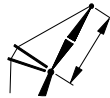
ASME B30.5



123,400 lb
+
45,100 lb



137.8 ft

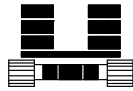
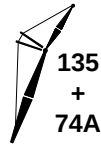


110.0 ft

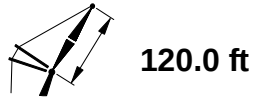
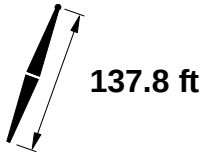
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100	61.5	235.9	31,500							100
105	58.5	233.0	29,400							105
110	55.4	229.7	27,600							110
115	52.1	226.1	26,000							115
120	48.8	221.9	24,500	56.3	226.9	22,000				120
125	45.2	217.3	23,100	53.1	223.3	20,700				125
130	41.4	212.0	21,900	49.7	219.4	19,600				130
135	37.3	205.9	20,700	46.2	214.8	18,500				135
140	32.8	198.7	19,700	42.5	209.7	17,600	50.4	215.4	15,500	140
145	27.6	190.1	18,700	38.5	203.9	16,700	47.0	211.0	14,700	145
150	21.3	179.1	17,700	34.1	197.1	15,800	43.3	206.1	14,000	150
155	12.2	162.5	16,800	29.1	188.9	15,100	39.3	200.4	13,300	155
160				23.2	178.8	14,300	35.0	193.8	12,600	160
165				15.3	164.4	13,600	30.2	186.0	12,000	165
170							24.5	176.3	11,400	170
							17.2	163.2	10,800	170

MLC165-1 S-2

ASME B30.5



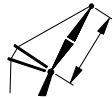
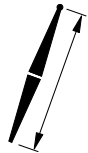
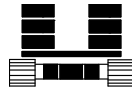
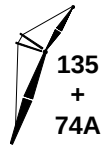
123,400 lb
+
45,100 lb



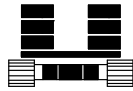
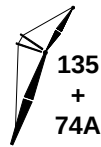
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
50	72.6	258.7	54,100 b							50
55	70.1	257.0	52,100 b							55
60	67.5	255.1	50,000							60
65	64.9	252.9	47,700	69.9	255.9	54,900 b				65
70	62.2	250.4	45,300	67.3	253.9	52,500				70
75	59.5	247.6	43,000	64.7	251.7	49,100				75
80	56.7	244.5	40,700	62.0	249.2	45,200	65.8	251.5	42,800	80
85	53.8	241.0	38,400	59.3	246.3	41,800	63.2	249.1	39,600	85
90	50.8	237.2	36,200	56.5	243.2	38,900	60.4	246.4	36,800	90
95	47.6	232.8	34,100	53.5	239.7	36,300	57.7	243.4	34,300	95
100	44.3	228.0	32,000	50.5	235.8	34,000	54.8	240.1	32,100	100
105	40.8	222.5	30,200	47.3	231.4	31,900	51.8	236.3	30,200	105
110	37.0	216.3	28,500	44.0	226.6	30,000	48.7	232.2	28,400	110
115	32.8	209.2	26,800	40.5	221.0	28,300	45.4	227.5	26,700	115
120	28.1	200.7	25,300	36.6	214.8	26,800	42.0	222.3	25,300	120
125	22.5	190.1	24,000	32.4	207.5	25,300	38.3	216.4	23,900	125
130	15.1	175.3	22,900	27.6	198.8	24,000	34.2	209.5	22,700	130
135				21.9	188.0	22,800	29.7	201.5	21,500	135
140				14.2	172.7	21,700	24.5	191.8	20,400	140
145							17.9	178.9	19,400	145
150							6.6	155.8	18,400	150
155										155
160										160
165										165
170										170
175										175
180										180

MLC165-1 S-2

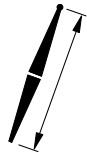
ASME B30.5



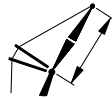
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100	61.4	244.5	29,100							100
105	58.6	241.7	27,300							105
110	55.8	238.4	25,600							110
115	52.8	234.8	24,100							115
120	49.8	230.8	22,800	56.6	235.6	20,300				120
125	46.6	226.4	21,500	53.7	232.1	19,200				125
130	43.2	221.3	20,400	50.6	228.2	18,200				130
135	39.6	215.7	19,300	47.5	223.9	17,200				135
140	35.7	209.2	18,400	44.2	219.0	16,300	51.3	224.3	14,300	140
145	31.3	201.6	17,500	40.6	213.5	15,500	48.2	220.0	13,600	145
150	26.4	192.5	16,600	36.8	207.3	14,700	44.9	215.3	12,900	150
155	20.4	181.0	15,800	32.6	200.1	14,000	41.4	209.9	12,200	155
160	11.7	163.6	15,000	27.9	191.5	13,300	37.6	203.9	11,600	160
165				22.2	180.8	12,700	33.5	196.9	11,000	165
170				14.7	165.8	12,000	28.9	188.6	10,500	170
175							23.5	178.4	10,000	175
180							16.5	164.7	9,500	180



123,400 lb
+
45,100 lb



137.8 ft

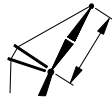
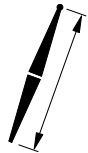
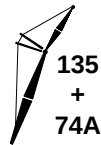


130.0 ft

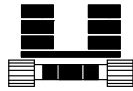
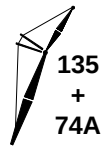
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
50	74.0	269.1	44,700 b							50
55	71.7	267.6	44,000 b							55
60	69.3	265.8	43,300							60
65	67.0	263.8	42,600							65
70	64.5	261.6	41,400	69.1	264.7	43,700				70
75	62.1	259.1	39,600	66.8	262.6	43,200				75
80	59.6	256.3	37,700	64.3	260.4	42,700	67.8	262.3	42,600	80
85	57.0	253.2	35,900	61.9	257.8	41,600	65.4	260.2	39,400	85
90	54.3	249.7	34,100	59.3	255.0	38,700	62.9	257.8	36,600	90
95	51.5	246.0	32,300	56.7	251.9	36,100	60.4	255.1	34,100	95
100	48.7	241.8	30,600	54.1	248.4	33,800	57.8	252.1	31,900	100
105	45.6	237.1	28,900	51.3	244.6	31,700	55.2	248.8	29,900	105
110	42.5	232.0	27,400	48.4	240.4	29,800	52.5	245.1	28,100	110
115	39.1	226.2	25,900	45.4	235.7	28,100	49.6	241.1	26,500	115
120	35.5	219.6	24,500	42.2	230.5	26,600	46.7	236.6	25,100	120
125	31.5	212.0	23,200	38.8	224.7	25,200	43.6	231.6	23,700	125
130	27.0	203.1	22,000	35.1	218.0	23,900	40.3	226.0	22,500	130
135	21.6	192.0	20,900	31.1	210.3	22,700	36.7	219.7	21,300	135
140	14.5	176.6	20,100	26.5	201.3	21,500	32.9	212.6	20,300	140
145				21.1	189.9	20,500	28.5	204.1	19,300	145
150				13.7	173.9	19,500	23.5	193.9	18,400	150
155							17.2	180.4	17,500	155
160							6.4	156.4	16,600	160
165										165
170										170
175										175
180										180
185										185
190										190

MLC165-1 S-2

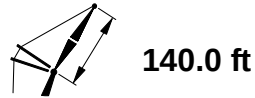
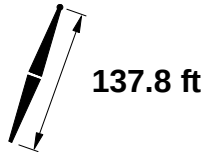
ASME B30.5



	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	27,000							105
110	58.7	250.3	25,400							110
115	56.1	247.1	23,900							115
120	53.4	243.6	22,500							120
125	50.6	239.7	21,300	56.8	244.3	18,900				125
130	47.7	235.4	20,200	54.2	240.8	17,900				130
135	44.6	230.6	19,100	51.4	237.0	17,000				135
140	41.4	225.2	18,200	48.5	232.8	16,100				140
145	38.0	219.2	17,300	45.5	228.2	15,300	52.0	233.1	13,300	145
150	34.2	212.3	16,400	42.3	223.0	14,500	49.1	228.9	12,600	150
155	30.1	204.4	15,600	39.0	217.1	13,800	46.1	224.4	12,000	155
160	25.3	194.8	14,900	35.3	210.5	13,100	43.0	219.3	11,400	160
165	19.6	182.7	14,200	31.3	202.9	12,500	39.7	213.6	10,800	165
170	11.2	164.6	13,500	26.7	193.9	11,900	36.1	207.2	10,300	170
175				21.3	182.7	11,300	32.2	199.8	9,800	175
180				14.1	167.0	10,800	27.7	191.1	9,300	180
185							22.5	180.5	8,800	185
190							15.8	166.1	8,400	190



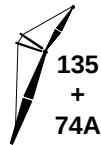
123,400 lb
+
45,100 lb



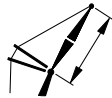
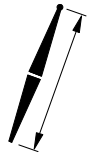
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
55	73.0	278.1	41,300 b							55
60	70.9	276.5	40,600							60
65	68.7	274.6	39,800							65
70	66.5	272.6	38,400	70.7	275.3	40,700				70
75	64.2	270.3	36,900	68.5	273.5	40,300				75
80	61.9	267.7	35,400	66.3	271.4	39,800				80
85	59.6	264.9	33,900	64.0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

MLC165-1 S-2

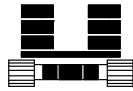
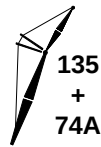
ASME B30.5



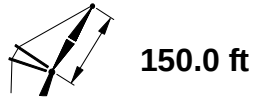
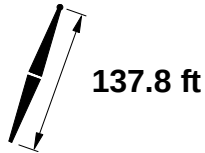
123,400 lb
+
45,100 lb



	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										100
105										105
110	61.2	261.9	25,000							110
115	58.8	259.0	23,500							115
120	56.4	255.8	22,200							120
125	53.9	252.3	21,000							125
130	51.3	248.5	19,800	57.1	252.9	17,500				130
135	48.6	244.3	18,800	54.6	249.5	16,600				135
140	45.9	239.7	17,800	52.1	245.8	15,700				140
145	42.9	234.6	16,900	49.4	241.7	14,900				145
150	39.8	228.9	16,100	46.7	237.2	14,100	52.6	241.8	12,200	150
155	36.5	222.5	15,300	43.8	232.3	13,400	50.0	237.8	11,600	155
160	32.9	215.3	14,600	40.7	226.8	12,800	47.2	233.4	11,000	160
165	29.0	207.0	13,900	37.5	220.6	12,100	44.4	228.5	10,400	165
170	24.4	197.0	13,200	34.0	213.7	11,600	41.4	223.2	9,900	170
175	18.8	184.4	12,600	30.1	205.7	11,000	38.2	217.2	9,400	175
180	10.8	165.5	12,000	25.8	196.2	10,500	34.7	210.4	8,900	180
185				20.5	184.5	10,000	31.0	202.6	8,500	185
190				13.6	168.2	9,500	26.7	193.5	8,000	190
195							21.7	182.4	7,600	195
200							15.3	167.5	7,200	200



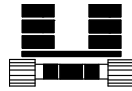
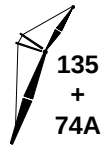
123,400 lb
+
45,100 lb



	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
55	74.2	288.5	38,600 b							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	37,100				80
85	61.8	276.4	31,800	65.9	280.1	36,800				85
90	59.6	273.6	30,500	63.8	277.7	35,800	66.8	279.8	36,100	90
95	57.4	270.5	29,300	61.6	275.2	34,700	64.7	277.6	33,600	95
100	55.1	267.2	28,000	59.4	272.3	33,400	62.5	275.1	31,500	100
105	52.7	263.5	26,800	57.2	269.2	31,300	60.4	272.4	29,500	105
110	50.3	259.5	25,500	54.9	265.9	29,400	58.1	269.4	27,700	110
115	47.7	255.2	24,300	52.5	262.2	27,800	55.9	266.2	26,100	115
120	45.1	250.4	23,200	50.1	258.2	26,200	53.5	262.6	24,700	120
125	42.3	245.2	22,000	47.5	253.8	24,800	51.1	258.7	23,300	125
130	39.4	239.4	21,000	44.9	249.0	23,500	48.6	254.5	22,100	130
135	36.3	233.0	20,000	42.1	243.7	22,300	46.0	249.9	21,000	135
140	32.9	225.8	19,100	39.2	237.9	21,200	43.3	244.9	19,900	140
145	29.2	217.5	18,200	36.0	231.4	20,200	40.4	239.3	18,900	145
150	25.1	207.7	17,400	32.6	224.1	19,200	37.4	233.1	18,000	150
155	20.1	195.7	16,600	28.9	215.7	18,300	34.1	226.1	17,200	155
160	13.5	179.1	16,100	24.7	205.8	17,500	30.5	218.2	16,400	160
165				19.6	193.5	16,700	26.5	209.0	15,600	165
170				12.7	176.2	15,900	21.9	197.9	14,900	170
175							16.0	183.3	14,200	175
180							5.9	157.5	13,600	180
185										185
190										190
195										195
200										200
205										205
210										210

MLC165-1 S-2

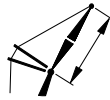
ASME B30.5



123,400 lb
+
45,100 lb

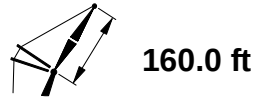
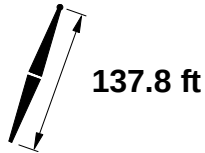
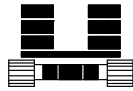
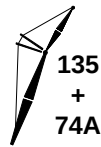


137.8 ft



150.0 ft

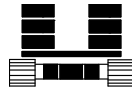
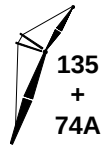
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110										110
115	61.1	270.5	23,400							115
120	58.9	267.6	22,100							120
125	56.6	264.5	20,900							125
130	54.3	261.1	19,700							130
135	51.9	257.3	18,700	57.3	261.6	16,500				135
140	49.5	253.2	17,700	55.0	258.2	15,600				140
145	46.9	248.7	16,800	52.6	254.6	14,800				145
150	44.2	243.8	16,000	50.2	250.6	14,000				150
155	41.4	238.4	15,200	47.6	246.2	13,300				155
160	38.4	232.5	14,500	45.0	241.5	12,700	50.7	246.7	10,900	160
165	35.2	225.8	13,800	42.2	236.2	12,100	48.2	242.4	10,300	165
170	31.8	218.2	13,200	39.3	230.4	11,500	45.5	237.7	9,800	170
175	28.0	209.5	12,600	36.2	223.9	10,900	42.8	232.5	9,300	175
180	23.6	199.2	12,000	32.8	216.7	10,400	39.9	226.9	8,900	180
185	18.2	186.0	11,500	29.1	208.3	9,900	36.8	220.5	8,400	185
190	10.5	166.5	10,900	24.9	198.5	9,500	33.5	213.4	8,000	190
195				19.8	186.3	9,000	29.9	205.3	7,600	195
200				13.1	169.4	8,600	25.8	195.9	7,200	200
205							21.0	184.3	6,800	205
210							14.7	168.8	6,400	210



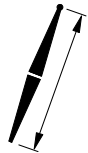
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
60	73.3	297.5	34,200							60
65	71.5	295.9	33,300							65
70	69.6	294.1	32,500							70
75	67.6	292.2	31,600							75
80	65.7	290.0	30,600	69.4	293.0	34,400				80
85	63.7	287.6	29,600	67.5	291.0	33,600				85
90	61.7	285.1	28,600	65.5	288.8	32,500				90
95	59.6	282.2	27,500	63.5	286.4	31,400	66.3	288.6	32,600	95
100	57.5	279.2	26,400	61.5	283.8	30,300	64.4	286.3	31,100	100
105	55.4	275.9	25,400	59.5	281.0	29,200	62.4	283.8	29,200	105
110	53.2	272.3	24,300	57.4	277.9	28,000	60.3	281.0	27,400	110
115	50.9	268.4	23,300	55.2	274.6	26,900	58.3	278.1	25,800	115
120	48.6	264.1	22,300	53.0	271.0	25,800	56.1	274.8	24,300	120
125	46.1	259.5	21,300	50.7	267.0	24,500	53.9	271.3	23,000	125
130	43.6	254.5	20,400	48.4	262.8	23,200	51.7	267.6	21,800	130
135	40.9	249.0	19,500	45.9	258.1	22,000	49.4	263.4	20,600	135
140	38.1	242.9	18,600	43.4	253.1	20,900	47.0	259.0	19,600	140
145	35.1	236.2	17,800	40.7	247.5	19,900	44.5	254.1	18,600	145
150	31.9	228.7	17,000	37.9	241.4	19,000	41.8	248.7	17,700	150
155	28.3	220.0	16,300	34.8	234.6	18,100	39.1	242.9	16,900	155
160	24.3	209.9	15,600	31.6	227.0	17,300	36.2	236.4	16,100	160
165	19.4	197.4	15,000	28.0	218.2	16,500	33.0	229.1	15,400	165
170	13.0	180.2	14,500	23.9	207.9	15,700	29.5	220.9	14,700	170
175				19.0	195.2	15,000	25.7	211.3	14,000	175
180				12.3	177.3	14,400	21.2	199.8	13,400	180
185							15.5	184.7	12,800	185
190							5.7	158.0	12,200	190
195										195
200										200
205										205
210										210
215										215
220										220

MLC165-1 S-2

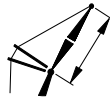
ASME B30.5



123,400 lb
+
45,100 lb

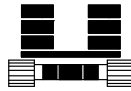
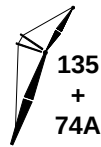


137.8 ft

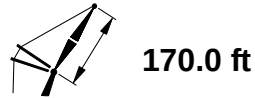
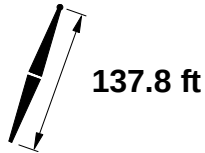


160.0 ft

	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										115
120	61.0	279.2	21,700							120
125	59.0	276.3	20,500							125
130	56.8	273.2	19,400							130
135	54.7	269.8	18,300							135
140	52.5	266.1	17,400	57.4	270.3	15,200				140
145	50.2	262.1	16,500	55.3	267.0	14,400				145
150	47.8	257.7	15,700	53.1	263.3	13,700				150
155	45.3	253.0	14,900	50.8	259.4	13,000				155
160	42.7	247.8	14,200	48.5	255.2	12,300				160
165	40.0	242.1	13,500	46.0	250.6	11,700	51.3	255.5	9,900	165
170	37.2	235.9	12,900	43.5	245.5	11,100	49.0	251.3	9,400	170
175	34.1	228.9	12,300	40.8	240.0	10,600	46.5	246.8	8,900	175
180	30.8	221.0	11,700	38.0	233.9	10,100	44.0	241.8	8,500	180
185	27.0	212.0	11,200	35.0	227.1	9,600	41.4	236.4	8,000	185
190	22.8	201.2	10,700	31.7	219.5	9,100	38.6	230.4	7,600	190
195	17.6	187.6	10,200	28.1	210.9	8,700	35.6	223.8	7,200	195
200	10.1	167.4	9,700	24.1	200.6	8,300	32.4	216.4	6,700	200
205				19.2	188.0	7,900	28.9	208.0	6,400	205
210				12.7	170.5	7,500	25.0	198.1	6,000	210
215							20.3	186.1	5,600	215
220							14.3	170.1	5,200	220



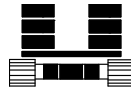
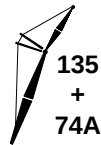
123,400 lb
+
45,100 lb



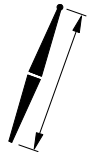
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
60	74.3	307.9	31,000							60
65	72.6	306.4	30,400							65
70	70.8	304.7	29,700							70
75	69.0	302.9	29,000							75
80	67.2	300.9	28,200	70.7	303.6	30,700				80
85	65.4	298.7	27,400	68.9	301.8	30,200				85
90	63.5	296.3	26,600	67.0	299.7	29,800				90
95	61.6	293.7	25,700	65.2	297.5	28,700	67.8	299.4	28,600	95
100	59.7	290.9	24,800	63.3	295.1	27,700	66.0	297.3	28,500	100
105	57.7	287.9	23,900	61.4	292.5	26,600	64.1	295.0	27,900	105
110	55.7	284.6	23,100	59.5	289.7	25,600	62.2	292.4	26,900	110
115	53.6	281.0	22,200	57.5	286.6	24,500	60.3	289.7	25,600	115
120	51.5	277.2	21,200	55.5	283.3	23,400	58.4	286.7	24,100	120
125	49.3	273.0	20,200	53.4	279.7	22,400	56.4	283.5	22,800	125
130	47.0	268.6	19,300	51.3	275.8	21,400	54.3	280.1	21,500	130
135	44.7	263.7	18,400	49.1	271.7	20,400	52.2	276.3	20,400	135
140	42.2	258.4	17,500	46.8	267.2	19,400	50.0	272.3	19,400	140
145	39.7	252.7	16,600	44.5	262.3	18,500	47.8	267.9	18,400	145
150	36.9	246.3	15,900	42.0	257.0	17,600	45.5	263.2	17,500	150
155	34.0	239.3	15,000	39.4	251.2	16,800	43.1	258.1	16,700	155
160	30.9	231.5	14,000	36.7	244.8	15,900	40.5	252.5	15,900	160
165	27.4	222.5	13,100	33.8	237.7	15,100	37.9	246.4	15,200	165
170	23.5	212.0	12,200	30.6	229.7	14,100	35.0	239.6	14,500	170
175	18.9	199.1	11,400	27.1	220.7	13,100	32.0	232.0	13,800	175
180	12.6	181.4	10,700	23.1	210.0	12,200	28.6	223.5	13,200	180
185				18.4	196.8	11,400	24.9	213.6	12,600	185
190				12.0	178.4	10,700	20.5	201.6	11,800	190
195							15.0	186.0	11,000	195
200							5.6	158.5	10,400	200
205										205
210										210
215										215
220										220
225										225
230										230

MLC165-1 S-2

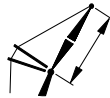
ASME B30.5



123,400 lb
+
45,100 lb



137.8 ft

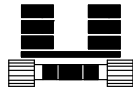
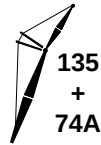


170.0 ft

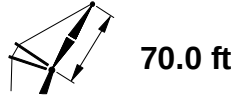
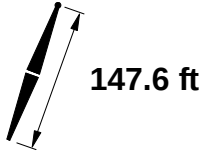
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110										110
115										115
120	62.9	290.5	21,500							120
125	61.0	287.9	20,200							125
130	59.0	285.0	19,100							130
135	57.0	281.8	18,100							135
140	55.0	278.5	17,100							140
145	52.9	274.8	16,300	57.6	278.9	14,200				145
150	50.8	270.9	15,400	55.6	275.6	13,400				150
155	48.6	266.7	14,700	53.5	272.1	12,700				155
160	46.3	262.1	14,000	51.4	268.2	12,100				160
165	43.9	257.1	13,300	49.2	264.1	11,500				165
170	41.4	251.7	12,700	46.9	259.6	10,900	51.8	264.3	9,200	170
175	38.8	245.7	12,100	44.6	254.7	10,400	49.7	260.2	8,600	175
180	36.0	239.2	11,500	42.1	249.4	9,800	47.4	255.8	8,100	180
185	33.0	231.9	11,000	39.5	243.6	9,400	45.1	251.0	7,700	185
190	29.8	223.7	10,500	36.8	237.3	8,900	42.6	245.8	7,200	190
195	26.2	214.3	10,000	33.9	230.2	8,500	40.1	240.1	6,800	195
200	22.1	203.2	9,500	30.8	222.3	8,100	37.4	233.9	6,400	200
205	17.1	189.1	9,100	27.3	213.3	7,700	34.5	227.0	6,000	205
210	9.8	168.2	8,600	23.3	202.7	7,300	31.4	219.3	5,600	210
215				18.6	189.7	6,900	28.0	210.5	5,300	215
220				12.3	171.6	6,600	24.2	200.3	4,900	220
225							19.7	187.9	4,600	225
230							13.8	171.3	4,300	230

MLC165-1 S-2

ASME B30.5



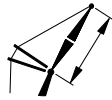
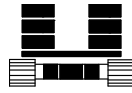
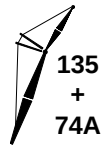
123,400 lb
+
45,100 lb



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
34	73.9	221.3	81,900 d							34
36	72.2	220.7	81,700 d							36
38	70.5	220.0	81,500 d							38
40	68.8	219.3	81,400 c							40
45	64.3	217.1	77,200 c							45
50	59.7	214.4	70,500 b	69.0	218.3	78,500 c				50
55	54.8	211.2	65,100 b	64.5	216.2	73,500 c				55
60	49.6	207.3	60,600 b	59.9	213.5	66,100 b	66.9	216.1	62,800 c	60
65	44.0	202.6	56,800	55.0	210.3	59,700 b	62.3	213.7	56,700 c	65
70	37.7	196.8	53,500	49.9	206.5	54,400 b	57.6	210.8	51,700 b	70
75	30.4	189.5	50,100	44.3	201.8	49,900	52.6	207.3	47,400 b	75
80	21.0	179.1	46,900	38.1	196.1	46,000	47.3	203.1	43,700	80
85				30.8	188.8	42,600	41.4	198.0	40,500	85
90				21.5	178.6	39,500	34.8	191.6	37,600	90
95							26.8	183.2	35,100	95
100							15.4	170.3	32,800	100
105										105
110										110
115										115
120										120
125										125
130										130
135										135

MLC165-1 S-2

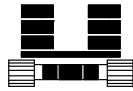
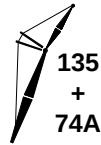
ASME B30.5



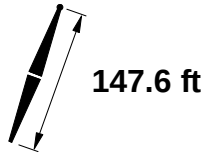
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80	60.0	209.4	39,800 b							80
85	55.2	206.2	36,900 b							85
90	50.0	202.4	34,300 b							90
95	44.5	197.8	32,000	57.4	203.6	28,900 b				95
100	38.3	192.1	29,900	52.4	200.1	27,100 b				100
105	31.1	184.9	28,100	47.0	195.9	25,400				105
110	21.9	174.8	26,400	41.1	190.7	23,900				110
115	2.0	151.1	24,700	34.4	184.3	22,500	49.0	192.4	20,100 b	115
120				26.3	175.7	21,200	43.3	187.6	18,900	120
125				14.6	162.3	19,900	37.0	181.7	17,900	125
130							29.5	174.1	16,900	130
135							19.7	163.1	15,900	135

MLC165-1 S-2

ASME B30.5



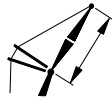
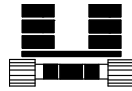
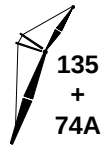
123,400 lb
+
45,100 lb



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
36	74.5	231.1	75,700 d							36
38	73.0	230.5	75,500 d							38
40	71.5	229.9	75,400 c							40
45	67.7	228.0	73,700 c							45
50	63.8	225.8	69,100 b							50
55	59.7	223.1	64,100 b	67.9	227.1	70,800 c				55
60	55.5	219.9	59,400 b	64.0	224.8	65,700 b				60
65	51.0	216.2	55,600	59.9	222.2	59,400 b	66.0	224.8	56,400 c	65
70	46.2	211.8	51,700	55.7	219.0	54,100 b	62.1	222.4	51,300 b	70
75	41.0	206.5	48,000	51.2	215.3	49,600	57.9	219.5	47,000 b	75
80	35.2	200.1	44,600	46.5	210.9	45,700	53.6	216.1	43,400	80
85	28.4	192.1	41,600	41.3	205.7	42,400	49.0	212.1	40,200	85
90	19.6	180.8	39,100	35.5	199.4	39,400	44.1	207.3	37,300	90
95				28.8	191.5	36,700	38.6	201.7	34,800	95
100				20.1	180.5	34,400	32.5	194.7	32,600	100
105							25.0	185.5	30,600	105
110							14.4	171.6	28,700	110
115										115
120										120
125										125
130										130
135										135
140										140
145										145

MLC165-1 S-2

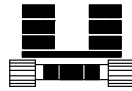
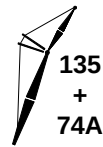
ASME B30.5



	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	60.0	218.0	36,500 b							85
90	55.8	214.9	33,900 b							90
95	51.4	211.2	31,600							95
100	46.6	206.9	29,600	57.7	212.3	26,600 b				100
105	41.5	201.7	27,800	53.4	208.9	25,000				105
110	35.7	195.4	26,100	48.8	204.8	23,500				110
115	29.0	187.5	24,600	43.8	200.0	22,100				115
120	20.5	176.7	23,200	38.4	194.3	20,900	50.5	201.3	18,500	120
125	1.8	151.3	21,800	32.2	187.2	19,700	45.7	196.8	17,500	125
130				24.6	178.0	18,600	40.4	191.4	16,500	130
135				13.7	163.6	17,600	34.5	184.9	15,600	135
140							27.6	176.6	14,800	140
145							18.4	164.8	14,000	145

MLC165-1 S-2

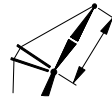
ASME B30.5



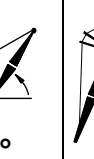
123,400 lb
+
45,100 lb



147.6 ft

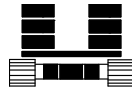
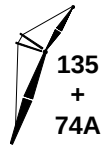


90.0 ft

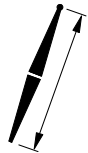
	87°			83°			80°			
										
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
38	75.0	240.9	69,500 d							38
40	73.6	240.4	69,300 c							40
45	70.3	238.7	68,200 c							45
50	66.9	236.8	64,600 b							50
55	63.4	234.5	60,800 b	70.5	237.8	68,100 c				55
60	59.7	231.7	57,000 b	67.0	235.8	64,400 b				60
65	56.0	228.6	53,200	63.5	233.5	59,200 b				65
70	52.0	225.0	49,700	59.9	230.8	53,900 b	65.4	233.5	51,100 b	70
75	47.9	220.8	46,300	56.2	227.7	49,400	61.8	231.0	46,800 b	75
80	43.4	215.9	43,100	52.2	224.1	45,600	58.2	228.2	43,200 b	80
85	38.6	210.1	40,200	48.1	219.9	42,200	54.3	224.8	40,000	85
90	33.1	203.2	37,500	43.7	215.1	39,300	50.3	221.0	37,200	90
95	26.8	194.5	35,100	38.8	209.4	36,600	46.0	216.5	34,700	95
100	18.5	182.5	33,200	33.4	202.5	34,300	41.4	211.2	32,500	100
105				27.1	194.0	32,200	36.4	205.0	30,500	105
110				19.0	182.2	30,300	30.6	197.5	28,700	110
115							23.6	187.7	27,000	115
120							13.6	172.8	25,500	120
125										125
130										130
135										135
140										140
145										145
150										150
155										155

MLC165-1 S-2

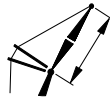
ASME B30.5



123,400 lb
+
45,100 lb

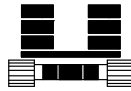
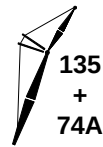


147.6 ft

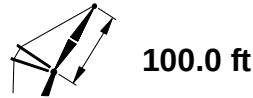
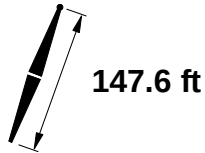


90.0 ft

	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										80
85										85
90	60.0	226.7	33,700 b							90
95	56.3	223.6	31,400							95
100	52.4	220.0	29,400							100
105	48.2	215.8	27,600	58.0	221.0	24,700 b				105
110	43.8	211.0	25,900	54.1	217.6	23,200				110
115	39.0	205.3	24,500	50.1	213.7	21,900				115
120	33.6	198.5	23,100	45.8	209.2	20,700				120
125	27.3	190.0	21,800	41.2	203.9	19,500	51.6	210.1	17,200	125
130	19.3	178.4	20,600	36.1	197.7	18,500	47.4	205.8	16,300	130
135	1.7	151.4	19,400	30.3	190.0	17,500	42.9	200.8	15,400	135
140				23.2	180.1	16,600	38.0	195.0	14,600	140
145				12.9	164.7	15,700	32.5	187.9	13,900	145
150							26.0	179.0	13,100	150
155							17.3	166.4	12,400	155



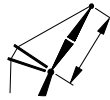
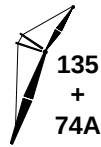
123,400 lb
+
45,100 lb



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
45	72.3	249.3	62,700 c							45
50	69.3	247.6	59,800 b							50
55	66.2	245.5	56,800 b							55
60	63.0	243.1	53,600 b	69.4	246.6	61,800 b				60
65	59.8	240.4	50,500	66.4	244.6	58,700 b				65
70	56.4	237.3	47,400	63.2	242.2	53,600 b	68.0	244.4	50,700 b	70
75	52.9	233.7	44,400	59.9	239.5	49,100	64.9	242.2	46,500 b	75
80	49.2	229.7	41,600	56.6	236.4	45,300	61.7	239.7	42,800	80
85	45.3	225.1	38,900	53.1	232.9	41,900	58.3	236.8	39,600	85
90	41.1	219.7	36,400	49.4	228.9	39,000	54.9	233.5	36,800	90
95	36.5	213.5	34,000	45.5	224.3	36,400	51.3	229.8	34,400	95
100	31.4	206.1	31,900	41.3	219.0	34,100	47.6	225.5	32,200	100
105	25.4	196.8	30,000	36.8	212.8	32,000	43.5	220.6	30,200	105
110	17.5	184.1	28,400	31.7	205.5	30,100	39.2	214.9	28,400	110
115				25.7	196.3	28,400	34.4	208.2	26,800	115
120				18.0	183.8	26,800	29.0	200.1	25,300	120
125							22.4	189.7	23,900	125
130							12.9	174.0	22,600	130
135										135
140										140
145										145
150										150
155										155
160										160
165										165

MLC165-1 S-2

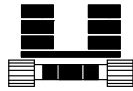
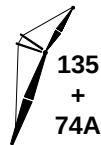
ASME B30.5



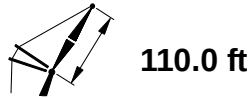
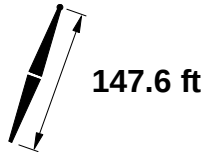
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95	60.0	235.4	31,000							95
100	56.7	232.3	29,000							100
105	53.2	228.8	27,200							105
110	49.5	224.8	25,600							110
115	45.6	220.2	24,100	54.7	226.3	21,500				115
120	41.5	214.9	22,800	51.2	222.5	20,300				120
125	36.9	208.8	21,500	47.4	218.2	19,100				125
130	31.8	201.5	20,400	43.3	213.3	18,100	52.5	218.9	15,900	130
135	25.9	192.4	19,300	39.0	207.6	17,100	48.8	214.8	15,000	135
140	18.3	180.1	18,300	34.2	200.8	16,300	44.8	210.1	14,200	140
145	1.6	151.6	17,300	28.7	192.7	15,400	40.6	204.7	13,500	145
150				22.0	182.1	14,600	36.0	198.3	12,800	150
155				12.2	165.8	13,900	30.8	190.7	12,100	155
160							24.6	181.2	11,500	160
165							16.4	167.9	10,900	165

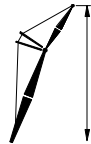
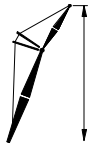
MLC165-1 S-2

ASME B30.5



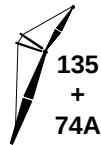
123,400 lb
+
45,100 lb



	 87°			 83°			 80°			
 ft	 °	 ft	 lb	 °	 ft	 lb	 °	 ft	 lb	 ft
45	74.0	259.7	57,500 c							45
50	71.2	258.2	55,400 b							50
55	68.5	256.3	52,900 b							55
60	65.6	254.2	50,400 b							60
65	62.8	251.8	47,800	68.6	255.4	56,500 b				65
70	59.8	249.1	45,100	65.8	253.3	53,500 b				70
75	56.7	246.0	42,600	62.9	250.9	49,000	67.3	253.2	46,400 b	75
80	53.5	242.5	40,100	59.9	248.2	45,200	64.4	250.9	42,700	80
85	50.2	238.6	37,600	56.9	245.1	41,900	61.5	248.4	39,600	85
90	46.8	234.1	35,400	53.7	241.6	38,900	58.5	245.5	36,800	90
95	43.1	229.1	33,200	50.4	237.7	36,300	55.4	242.2	34,300	95
100	39.1	223.4	31,200	46.9	233.3	34,000	52.2	238.6	32,100	100
105	34.8	216.7	29,300	43.3	228.3	32,000	48.8	234.4	30,200	105
110	29.9	208.8	27,700	39.3	222.6	30,100	45.2	229.8	28,400	110
115	24.2	199.0	26,100	35.0	216.0	28,400	41.4	224.5	26,800	115
120	16.7	185.6	25,000	30.2	208.2	26,800	37.3	218.4	25,300	120
125				24.5	198.5	25,400	32.8	211.3	23,900	125
130				17.1	185.4	24,100	27.6	202.7	22,700	130
135							21.3	191.7	21,500	135
140							12.3	175.1	20,400	140
145										145
150										150
155										155
160										160
165										165
170										170
175										175

MLC165-1 S-2

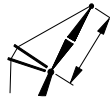
ASME B30.5



123,400 lb
+
45,100 lb

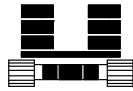
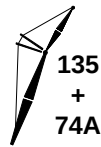


147.6 ft

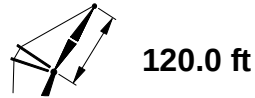
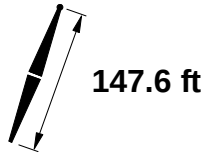


110.0 ft

	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	63.0	246.7	31,000							100
105	60.0	244.0	29,000							105
110	57.0	241.0	27,200							110
115	53.8	237.5	25,600							115
	50.5	233.6	24,100							
120	47.0	229.2	22,700	55.2	235.0	20,200				120
125	43.4	224.3	21,500	52.0	231.3	19,100				125
130	39.4	218.6	20,400	48.6	227.2	18,100				130
135	35.1	212.0	19,300	45.0	222.5	17,100				135
140	30.3	204.3	18,400	41.2	217.2	16,300	49.9	223.7	14,200	140
145	24.7	194.6	17,400	37.1	211.0	15,400	46.4	219.2	13,500	145
150	17.4	181.6	16,600	32.5	203.8	14,700	42.7	214.1	12,800	150
155	1.6	151.7	15,700	27.3	195.1	14,000	38.7	208.3	12,100	155
160				20.9	184.0	13,300	34.3	201.5	11,500	160
165				11.7	166.9	12,600	29.3	193.4	11,000	165
170							23.5	183.3	10,400	170
175							15.7	169.3	9,900	175



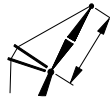
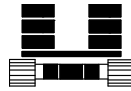
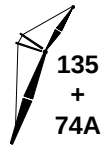
123,400 lb
+
45,100 lb



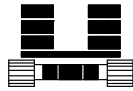
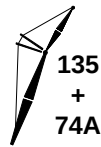
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
50	72.9	268.7	50,700 b							50
55	70.3	267.0	48,900 b							55
60	67.8	265.1	46,800 b							60
65	65.2	262.9	44,700	70.5	266.1	52,800 b				65
70	62.5	260.5	42,600	67.9	264.2	51,000 b				70
75	59.8	257.7	40,400	65.3	262.0	48,700				75
80	57.0	254.7	38,300	62.7	259.6	44,900	66.7	261.9	42,400	80
85	54.1	251.2	36,200	59.9	256.8	41,600	64.1	259.6	39,200	85
90	51.1	247.4	34,100	57.1	253.8	38,600	61.4	257.0	36,400	90
95	48.0	243.1	32,300	54.3	250.3	36,000	58.6	254.2	34,000	95
100	44.7	238.4	30,400	51.3	246.5	33,700	55.8	250.9	31,800	100
105	41.1	233.0	28,700	48.1	242.3	31,700	52.8	247.3	29,800	105
110	37.4	226.9	27,000	44.8	237.6	29,800	49.8	243.3	28,100	110
115	33.2	219.8	25,600	41.3	232.2	28,100	46.6	238.9	26,500	115
120	28.6	211.4	24,200	37.6	226.1	26,600	43.2	233.8	25,000	120
125	23.1	201.1	23,000	33.5	219.1	25,200	39.6	228.2	23,700	125
130	16.0	187.0	22,000	28.8	210.8	23,900	35.7	221.7	22,400	130
135				23.4	200.7	22,600	31.3	214.1	21,300	135
140				16.4	186.8	21,500	26.4	205.1	20,200	140
145							20.4	193.5	19,200	145
150							11.7	176.1	18,300	150
155										155
160										160
165										165
170										170
175										175
180										180
185										185

MLC165-1 S-2

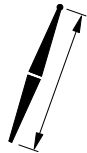
ASME B30.5



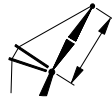
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100	62.7	255.4	28,600							100
105	60.0	252.7	26,800							105
110	57.2	249.6	25,200							110
115	54.3	246.2	23,700							115
120	51.3	242.4	22,400							120
125	48.2	238.2	21,200	55.6	243.7	18,700				125
130	44.9	233.5	20,000	52.7	240.1	17,700				130
135	41.4	228.1	19,000	49.6	236.1	16,700				135
140	37.7	222.1	18,000	46.4	231.6	15,900				140
145	33.6	215.1	17,100	43.0	226.5	15,100	50.8	232.5	13,100	145
150	29.0	206.9	16,300	39.4	220.8	14,300	47.6	228.2	12,400	150
155	23.6	196.8	15,500	35.5	214.3	13,600	44.3	223.3	11,700	155
160	16.7	183.1	14,800	31.1	206.7	13,000	40.8	217.9	11,200	160
165	1.5	151.9	14,000	26.1	197.5	12,300	36.9	211.7	10,600	165
170				20.0	185.8	11,700	32.8	204.5	10,100	170
175				11.2	167.9	11,100	28.0	196.0	9,600	175
180							22.4	185.4	9,100	180
185							15.0	170.6	8,600	185



123,400 lb
+
45,100 lb



147.6 ft

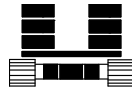
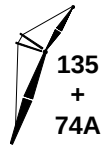


130.0 ft

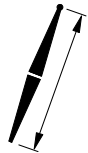
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
50	74.2	279.1	43,700 b							50
55	71.9	277.6	43,000 b							55
60	69.6	275.8	42,200 b							60
65	67.2	273.9	40,800							65
70	64.8	271.6	39,000	69.7	274.9	42,600 b				70
75	62.3	269.2	37,400	67.3	272.9	42,200				75
80	59.8	266.4	35,700	64.9	270.7	41,700				80
85	57.2	263.3	33,900	62.5	268.2	41,200	66.2	270.6	39,000	85
90	54.6	259.9	32,200	59.9	265.5	38,400	63.8	268.3	36,200	90
95	51.8	256.2	30,500	57.4	262.4	35,800	61.3	265.7	33,700	95
100	49.0	252.1	28,900	54.7	259.1	33,500	58.7	262.8	31,600	100
105	46.0	247.5	27,500	52.0	255.3	31,500	56.1	259.6	29,600	105
110	42.8	242.4	26,000	49.1	251.2	29,600	53.4	256.1	27,800	110
115	39.5	236.6	24,600	46.1	246.7	27,900	50.6	252.2	26,200	115
120	35.9	230.2	23,400	43.0	241.6	26,400	47.7	247.9	24,800	120
125	31.9	222.7	22,200	39.6	235.9	25,000	44.7	243.1	23,500	125
130	27.4	213.9	21,100	36.0	229.5	23,700	41.4	237.7	22,200	130
135	22.2	203.1	20,100	32.1	222.1	22,500	38.0	231.7	21,100	135
140	15.3	188.4	19,300	27.7	213.4	21,400	34.2	224.8	20,000	140
145				22.5	202.7	20,300	30.1	216.9	19,100	145
150				15.8	188.3	19,400	25.3	207.3	18,100	150
155							19.6	195.2	17,300	155
160							11.3	177.1	16,400	160
165										165
170										170
175										175
180										180
185										185
190										190
195										195

MLC165-1 S-2

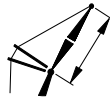
ASME B30.5



123,400 lb
+
45,100 lb

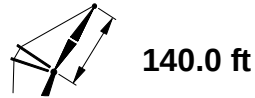
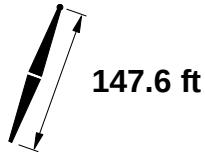
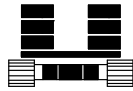
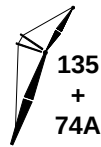


147.6 ft



130.0 ft

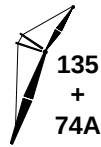
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105	62.5	264.1	26,500							105
110	60.0	261.3	24,900							110
115	57.4	258.3	23,500							115
120	54.8	254.9	22,100							120
125	52.0	251.2	20,900							125
130	49.2	247.1	19,800	56.0	252.4	17,400				130
135	46.2	242.6	18,800	53.3	248.9	16,500				135
140	43.1	237.5	17,800	50.5	244.9	15,600				140
145	39.7	231.8	16,900	47.6	240.6	14,800				145
150	36.2	225.4	16,100	44.5	235.8	14,100	51.5	241.3	12,100	150
155	32.2	218.1	15,300	41.3	230.4	13,400	48.6	237.1	11,500	155
160	27.8	209.4	14,600	37.8	224.3	12,700	45.6	232.5	10,900	160
165	22.7	198.8	13,900	34.0	217.4	12,100	42.5	227.3	10,400	165
170	16.0	184.6	13,200	29.9	209.4	11,500	39.1	221.5	9,800	170
175	1.4	152.0	12,600	25.1	199.8	11,000	35.4	214.9	9,300	175
180				19.3	187.5	10,500	31.4	207.4	8,900	180
185				10.7	168.8	9,900	26.9	198.4	8,400	185
190							21.6	187.3	8,000	190
195							14.4	171.9	7,600	195



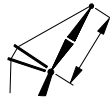
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
55	73.2	288.1	40,000 b							55
60	71.1	286.5	38,900							60
65	68.9	284.6	37,600							65
70	66.7	282.6	36,300							70
75	64.5	280.3	34,900	69.0	283.7	39,300				75
80	62.2	277.8	33,500	66.8	281.7	38,900				80
85	59.8	275.0	32,100	64.6	279.4	38,500	68.0	281.5	38,600	85
90	57.4	272.0	30,600	62.3	276.9	38,100	65.8	279.4	35,800	90
95	55.0	268.7	29,200	59.9	274.1	35,500	63.5	277.0	33,400	95
100	52.4	265.0	27,800	57.6	271.1	33,200	61.2	274.4	31,200	100
105	49.8	260.9	26,400	55.1	267.8	31,200	58.8	271.5	29,300	105
110	47.1	256.5	25,100	52.6	264.1	29,300	56.4	268.3	27,500	110
115	44.2	251.6	23,900	49.9	260.1	27,600	53.9	264.8	25,900	115
120	41.2	246.2	22,700	47.2	255.7	26,100	51.3	261.0	24,500	120
125	38.0	240.2	21,600	44.4	250.8	24,700	48.7	256.8	23,100	125
130	34.5	233.3	20,500	41.3	245.4	23,400	45.9	252.2	21,900	130
135	30.7	225.5	19,500	38.1	239.4	22,200	42.9	247.1	20,800	135
140	26.4	216.3	18,600	34.7	232.6	21,100	39.8	241.4	19,700	140
145	21.4	205.0	17,900	30.9	224.9	20,100	36.5	235.0	18,800	145
150	14.8	189.7	17,100	26.7	215.8	19,100	32.9	227.8	17,900	150
155				21.7	204.6	18,200	29.0	219.5	17,000	155
160				15.2	189.6	17,400	24.4	209.6	16,200	160
165							18.9	196.9	15,500	165
170							10.9	178.1	14,700	170
175										175
180										180
185										185
190										190
195										195
200										200
205										205

MLC165-1 S-2

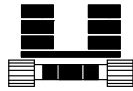
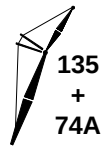
ASME B30.5



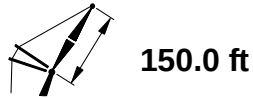
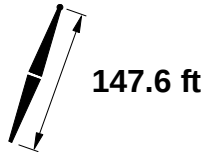
123,400 lb
+
45,100 lb



	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										100
105										105
110	62.4	272.7	24,500							110
115	60.0	270.0	23,100							115
120	57.6	267.0	21,800							120
125	55.2	263.6	20,600							125
130	52.6	260.0	19,400							130
135	50.0	256.0	18,400	56.3	261.1	16,100				135
140	47.3	251.6	17,500	53.8	257.6	15,200				140
145	44.4	246.7	16,600	51.2	253.8	14,400				145
150	41.4	241.4	15,800	48.5	249.6	13,700				150
155	38.2	235.4	15,000	45.7	244.9	13,000	52.2	250.1	11,100	155
160	34.8	228.6	14,300	42.8	239.8	12,400	49.5	246.0	10,500	160
165	31.0	220.9	13,600	39.7	234.1	11,800	46.8	241.5	10,000	165
170	26.8	211.9	13,000	36.4	227.7	11,200	43.9	236.6	9,400	170
175	21.8	200.8	12,400	32.8	220.4	10,700	40.8	231.1	9,000	175
180	15.4	186.0	11,800	28.8	212.0	10,100	37.6	225.0	8,500	180
185	1.4	152.1	11,100	24.2	202.0	9,600	34.1	218.1	8,100	185
190				18.5	189.2	9,200	30.3	210.1	7,700	190
195				10.3	169.8	8,700	25.9	200.8	7,200	195
200							20.8	189.2	6,800	200
205							13.9	173.2	6,400	205



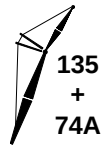
123,400 lb
+
45,100 lb



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
55	74.4	298.5	36,600 b							55
60	72.4	297.0	35,700							60
65	70.4	295.3	34,700							65
70	68.3	293.4	33,600							70
75	66.3	291.3	32,500	70.5	294.3	36,700				75
80	64.2	289.0	31,400	68.4	292.5	36,300				80
85	62.0	286.5	30,200	66.4	290.4	35,900				85
90	59.8	283.7	28,900	64.3	288.1	35,200	67.5	290.3	35,500	90
95	57.6	280.7	27,700	62.1	285.6	34,200	65.4	288.1	33,300	95
100	55.3	277.4	26,600	60.0	282.8	33,100	63.3	285.7	31,100	100
105	53.0	273.7	25,300	57.7	279.8	31,100	61.1	283.0	29,200	105
110	50.5	269.8	24,200	55.4	276.5	29,200	58.9	280.1	27,400	110
115	48.0	265.5	23,100	53.1	272.9	27,500	56.6	277.0	25,800	115
120	45.4	260.8	22,100	50.7	269.0	26,000	54.3	273.5	24,400	120
125	42.6	255.6	21,000	48.1	264.7	24,600	51.9	269.8	23,000	125
130	39.7	249.9	20,000	45.5	260.0	23,300	49.5	265.7	21,800	130
135	36.6	243.5	19,100	42.8	254.8	22,100	46.9	261.2	20,700	135
140	33.3	236.4	18,200	39.9	249.1	21,000	44.2	256.3	19,700	140
145	29.6	228.2	17,400	36.8	242.8	20,000	41.4	250.9	18,700	145
150	25.5	218.6	16,600	33.5	235.7	19,100	38.4	245.0	17,800	150
155	20.6	206.9	16,000	29.8	227.6	18,200	35.3	238.3	17,000	155
160	14.3	191.0	15,400	25.7	218.1	17,400	31.8	230.7	16,200	160
165				20.9	206.5	16,600	28.0	222.0	15,400	165
170				14.7	190.9	15,800	23.6	211.7	14,700	170
175							18.2	198.6	14,100	175
180							10.5	179.0	13,400	180
185										185
190										190
195										195
200										200
205										205
210										210
215										215

MLC165-1 S-2

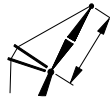
ASME B30.5



123,400 lb
+
45,100 lb

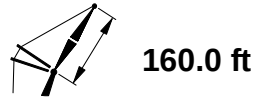
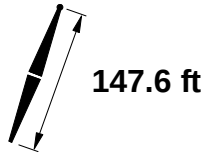
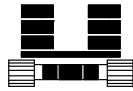
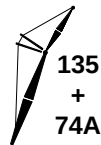


147.6 ft



150.0 ft

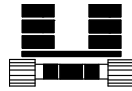
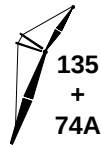
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110										110
115	62.2	281.4	23,000							115
120	60.0	278.7	21,700							120
125	57.8	275.6	20,500							125
130	55.5	272.3	19,300							130
135	53.2	268.8	18,300							135
140	50.7	264.8	17,400	56.5	269.8	15,100				140
145	48.2	260.6	16,500	54.2	266.3	14,400				145
150	45.6	255.9	15,700	51.8	262.6	13,600				150
155	42.9	250.8	14,900	49.3	258.5	12,900				155
160	40.0	245.1	14,200	46.8	254.0	12,300	52.7	258.9	10,400	160
165	36.9	238.8	13,500	44.1	249.0	11,700	50.3	254.9	9,900	165
170	33.6	231.7	12,900	41.3	243.6	11,100	47.7	250.5	9,400	170
175	30.0	223.6	12,300	38.3	237.6	10,600	45.1	245.8	8,900	175
180	25.9	214.2	11,800	35.1	230.9	10,100	42.3	240.5	8,400	180
185	21.1	202.7	11,200	31.6	223.3	9,600	39.4	234.8	8,000	185
190	14.9	187.3	10,700	27.8	214.5	9,100	36.3	228.3	7,500	190
195	1.3	152.2	10,100	23.3	204.1	8,700	32.9	221.1	7,100	195
200				17.9	190.8	8,300	29.2	212.8	6,700	200
205				10.0	170.6	7,800	25.0	203.0	6,300	205
210							20.1	191.0	5,900	210
215							13.4	174.3	5,600	215



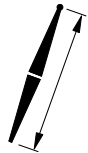
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
60	73.5	307.5	32,500							60
65	71.7	305.9	31,800							65
70	69.8	304.1	30,900							70
75	67.8	302.2	30,000							75
80	65.9	300.1	29,100	69.9	303.2	33,200				80
85	63.9	297.7	28,100	67.9	301.2	32,700				85
90	61.9	295.2	27,100	66.0	299.1	32,200				90
95	59.9	292.4	26,100	64.0	296.8	31,300	67.0	299.0	31,400	95
100	57.8	289.3	25,100	62.0	294.2	30,200	65.1	296.8	30,800	100
105	55.6	286.1	24,100	60.0	291.5	29,100	63.1	294.3	28,800	105
110	53.4	282.5	23,100	57.9	288.4	28,100	61.0	291.7	27,100	110
115	51.2	278.6	22,100	55.7	285.2	27,000	59.0	288.8	25,500	115
120	48.8	274.4	21,200	53.5	281.6	25,700	56.9	285.7	24,000	120
125	46.4	269.9	20,300	51.3	277.8	24,300	54.7	282.3	22,700	125
130	43.9	264.9	19,400	48.9	273.6	23,000	52.5	278.6	21,500	130
135	41.2	259.4	18,500	46.5	269.0	21,900	50.2	274.6	20,400	135
140	38.4	253.4	17,700	44.0	264.1	20,800	47.8	270.2	19,400	140
145	35.4	246.8	16,900	41.4	258.7	19,800	45.3	265.5	18,400	145
150	32.2	239.3	16,200	38.6	252.7	18,800	42.8	260.3	17,500	150
155	28.7	230.8	15,500	35.6	246.1	17,900	40.0	254.6	16,700	155
160	24.7	220.9	14,900	32.4	238.7	17,100	37.2	248.4	15,900	160
165	20.0	208.7	14,400	28.9	230.2	16,300	34.1	241.4	15,200	165
170	13.8	192.2	13,900	24.9	220.4	15,600	30.8	233.5	14,500	170
175				20.2	208.3	14,900	27.1	224.5	13,800	175
180				14.2	192.2	14,200	22.8	213.7	13,200	180
185							17.6	200.1	12,600	185
190							10.2	179.9	12,000	190
195										195
200										200
205										205
210										210
215										215
220										220
225										225

MLC165-1 S-2

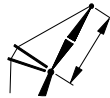
ASME B30.5



123,400 lb
+
45,100 lb

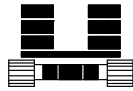
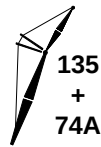


147.6 ft

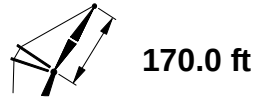
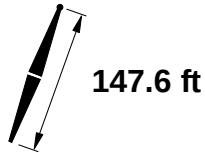


160.0 ft

	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										115
120	62.1	290.1	21,300							120
125	60.0	287.3	20,100							125
130	57.9	284.3	19,000							130
135	55.8	281.0	18,000							135
140	53.6	277.5	17,000							140
145	51.3	273.7	16,200	56.8	278.5	14,000				145
150	49.0	269.5	15,400	54.6	275.1	13,200				150
155	46.6	265.0	14,600	52.4	271.3	12,600				155
160	44.1	260.0	13,900	50.1	267.3	11,900				160
165	41.4	254.6	13,200	47.7	263.0	11,300				165
170	38.7	248.7	12,600	45.2	258.2	10,800	50.9	263.7	8,900	170
175	35.7	242.1	12,000	42.6	253.0	10,200	48.6	259.5	8,400	175
180	32.5	234.7	11,500	39.9	247.3	9,700	46.1	254.9	7,900	180
185	29.0	226.3	10,900	37.0	241.0	9,300	43.6	249.9	7,400	185
190	25.0	216.5	10,400	33.9	234.0	8,800	40.9	244.3	7,000	190
195	20.4	204.5	9,900	30.6	226.1	8,400	38.1	238.3	6,600	195
200	14.4	188.6	9,500	26.9	217.0	8,000	35.1	231.6	6,200	200
205	1.3	152.4	9,000	22.6	206.1	7,600	31.9	224.0	5,800	205
210				17.3	192.3	7,200	28.3	215.3	5,500	210
215				9.7	171.5	6,800	24.2	205.2	5,100	215
220							19.4	192.7	4,800	220
225							13.0	175.5	4,400	225



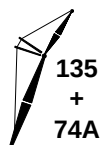
123,400 lb
+
45,100 lb



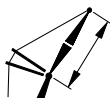
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
60	74.5	317.9	29,700							60
65	72.8	316.4	29,000							65
70	71.0	314.8	28,400							70
75	69.2	312.9	27,600							75
80	67.4	310.9	26,900							80
85	65.6	308.8	26,100	69.3	312.0	29,300				85
90	63.7	306.4	25,300	67.5	310.0	29,000				90
95	61.8	303.8	24,500	65.6	307.8	28,700				95
100	59.9	301.0	23,600	63.8	305.5	27,600	66.6	307.7	27,600	100
105	57.9	298.0	22,800	61.9	302.9	26,600	64.8	305.5	27,400	105
110	55.9	294.7	21,900	60.0	300.1	25,600	62.9	303.0	26,800	110
115	53.8	291.2	21,100	58.0	297.1	24,600	61.0	300.4	25,200	115
120	51.7	287.4	20,300	56.0	293.9	23,500	59.0	297.5	23,800	120
125	49.5	283.3	19,500	53.9	290.4	22,600	57.0	294.3	22,500	125
130	47.3	278.9	18,700	51.8	286.6	21,500	55.0	291.0	21,300	130
135	44.9	274.1	17,900	49.6	282.5	20,600	52.9	287.3	20,200	135
140	42.5	268.8	17,200	47.4	278.1	19,600	50.8	283.4	19,100	140
145	39.9	263.1	16,500	45.0	273.3	18,700	48.6	279.2	18,200	145
150	37.2	256.9	15,800	42.6	268.1	17,900	46.3	274.6	17,300	150
155	34.3	249.9	15,200	40.1	262.4	17,000	43.9	269.6	16,500	155
160	31.2	242.2	14,100	37.4	256.1	16,200	41.4	264.2	15,700	160
165	27.8	233.3	13,200	34.5	249.2	15,400	38.8	258.2	14,900	165
170	23.9	223.0	12,300	31.4	241.5	14,300	36.0	251.7	14,300	170
175	19.4	210.4	11,500	28.0	232.7	13,400	33.1	244.4	13,600	175
180	13.4	193.4	10,700	24.2	222.5	12,500	29.8	236.2	13,000	180
185				19.6	210.1	11,700	26.2	226.9	12,400	185
190				13.8	193.4	10,900	22.1	215.7	11,900	190
195							17.1	201.7	11,300	195
200							9.9	180.8	10,600	200
205										205
210										210
215										215
220										220
225										225
230										230
235										235

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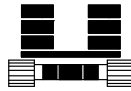
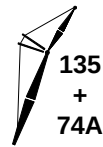
123,400 lb
+
45,100 lb



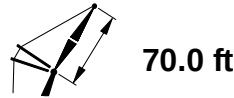
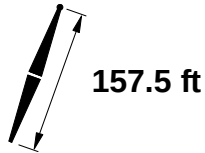
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110										110
115										115
120										120
125	61.9	298.7	19,800							125
130	60.0	296.0	18,700							130
135	58.1	293.0	17,700							135
140	56.0	289.7	16,800							140
145	54.0	286.2	15,900							145
150	51.9	282.5	15,100	56.9	287.1	13,000				150
155	49.7	278.4	14,400	54.9	283.8	12,300				155
160	47.5	274.0	13,600	52.8	280.1	11,700				160
165	45.1	269.2	13,000	50.7	276.2	11,100				165
170	42.7	264.0	12,400	48.5	271.9	10,500				170
175	40.1	258.3	11,800	46.2	267.3	10,000	51.5	272.5	8,000	175
180	37.5	252.1	11,200	43.8	262.3	9,500	49.3	268.4	7,500	180
185	34.6	245.2	10,700	41.3	256.8	9,000	47.0	263.9	7,100	185
190	31.5	237.5	10,200	38.7	250.9	8,600	44.7	259.1	6,600	190
195	28.1	228.8	9,700	35.9	244.3	8,100	42.2	253.8	6,200	195
200	24.3	218.6	9,300	32.9	237.0	7,700	39.6	248.0	5,800	200
205	19.8	206.3	8,800	29.7	228.8	7,400	36.9	241.7	5,500	205
210	14.0	189.8	8,400	26.1	219.3	7,000	34.0	234.7	5,100	210
215	1.3	152.5	8,000	21.9	208.1	6,600	30.9	226.8	4,800	215
220				16.8	193.8	6,200	27.4	217.8	4,400	220
225				9.4	172.3	5,800	23.5	207.3	4,100	225
230							18.8	194.4	3,800	230
235							12.6	176.6	3,500	235

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ASME B30.5



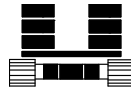
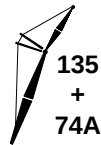
123,400 lb
+
45,100 lb



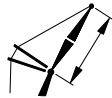
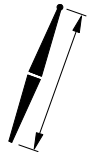
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
34	74.4	231.3	78,100 d							34
36	72.7	230.7	78,000 d							36
38	70.9	230.0	77,800 d							38
40	69.2	229.3	77,600 c							40
45	64.8	227.2	73,100 c							45
50	60.1	224.6	68,000 b	70.0	228.5	75,300 d				50
55	55.3	221.4	62,800 b	65.6	226.5	70,900 c				55
60	50.2	217.6	58,600 b	61.0	224.0	65,600 b				60
65	44.6	213.0	54,500	56.2	220.9	59,300 b	63.9	224.3	56,000 c	65
70	38.4	207.3	50,700	51.1	217.2	54,000 b	59.3	221.6	51,000 b	70
75	31.2	200.1	47,200	45.7	212.8	49,500	54.4	218.3	46,800 b	75
80	22.1	190.2	44,200	39.6	207.4	45,600	49.2	214.4	43,100 b	80
85	3.7	168.4	42,400	32.7	200.5	42,200	43.5	209.6	39,900	85
90				24.1	191.3	39,300	37.2	203.7	37,100	90
95				10.1	175.0	36,500	29.7	196.1	34,600	95
100							20.0	185.3	32,400	100
105										105
110										110
115										115
120										120
125										125
130										130
135										135
140										140

MLC165-1 S-2

ASME B30.5



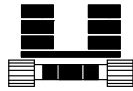
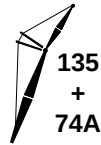
123,400 lb
+
45,100 lb



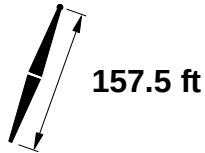
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
34										34
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80	62.4	220.3	38,900 c							80
85	57.7	217.4	36,100 b							85
90	52.7	213.9	33,500 b							90
95	47.4	209.7	31,300							95
100	41.5	204.6	29,300	55.8	211.8	26,100 b				100
105	34.9	198.3	27,400	50.7	208.1	24,500 b				105
110	26.9	189.9	25,800	45.2	203.5	23,000				110
115	15.6	177.1	24,200	39.0	198.0	21,700				115
120				32.0	191.0	20,400	48.1	200.6	18,000 b	120
125				23.1	181.4	19,300	42.3	195.6	16,900	125
130				7.7	163.3	18,100	35.8	189.5	16,000	130
135							28.1	181.4	15,100	135
140							17.5	169.6	14,300	140

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ASME B30.5



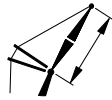
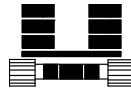
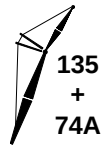
123,400 lb
+
45,100 lb



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
36	74.9	241.1	72,400 d							36
38	73.4	240.5	72,200 d							38
40	71.9	239.9	71,800 d							40
45	68.1	238.1	68,000 c							45
50	64.2	235.9	64,000 b							50
55	60.1	233.2	59,900 b	68.8	237.3	68,200 c				55
60	55.9	230.1	55,900 b	64.9	235.2	64,300 b				60
65	51.5	226.4	52,100	60.9	232.6	58,900 b	67.4	235.2	55,600 c	65
70	46.7	222.1	48,500	56.7	229.6	53,700 b	63.4	233.0	50,600 b	70
75	41.6	216.9	45,200	52.3	226.0	49,200	59.4	230.2	46,400 b	75
80	35.8	210.7	42,100	47.6	221.8	45,400	55.1	227.0	42,800 b	80
85	29.2	202.8	39,400	42.6	216.9	42,000	50.6	223.2	39,600	85
90	20.7	192.1	37,000	37.0	210.8	39,100	45.8	218.7	36,800	90
95	3.5	168.7	35,700	30.5	203.4	36,500	40.6	213.4	34,400	95
100				22.5	193.3	34,100	34.7	206.9	32,200	100
105				9.4	175.8	31,900	27.8	198.7	30,200	105
110							18.7	187.0	28,300	110
115										115
120										120
125										125
130										130
135										135
140										140
145										145
150										150

MLC165-1 S-2

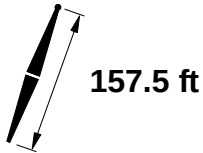
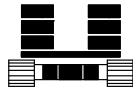
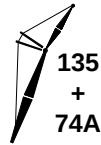
ASME B30.5

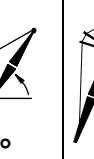


	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
36										36
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85	62.1	228.9	35,600 b							85
90	58.0	226.1	33,100 b							90
95	53.7	222.7	30,900							95
100	49.1	218.7	28,900							100
105	44.1	213.9	27,100	56.3	220.5	24,000 b				105
110	38.7	208.3	25,500	51.9	216.9	22,600				110
115	32.6	201.3	24,000	47.2	212.6	21,300				115
120	25.2	192.2	22,600	42.1	207.5	20,100				120
125	14.6	178.4	21,300	36.4	201.4	18,900	49.7	209.5	16,500	125
130				29.9	193.8	17,900	44.8	204.9	15,600	130
135				21.6	183.4	16,900	39.5	199.3	14,800	135
140				7.2	164.0	16,000	33.5	192.6	14,000	140
145							26.3	183.9	13,200	145
150							16.4	171.0	12,500	150

MLC165-1 S-2

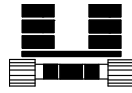
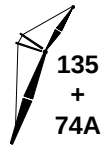
ASME B30.5



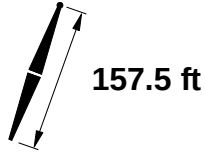
	87°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
40	74.0	250.3	66,100 d							40
45	70.6	248.8	63,100 c							45
50	67.2	246.8	59,900 b							50
55	63.7	244.5	56,500 b							55
60	60.1	241.9	53,100 b	67.9	246.1	62,100 b				60
65	56.4	238.8	49,700	64.4	243.9	58,700 b				65
70	52.5	235.2	46,500	60.8	241.3	53,500 b	66.6	244.0	50,400 b	70
75	48.3	231.1	43,500	57.1	238.3	49,000	63.1	241.6	46,200 b	75
80	43.9	226.2	40,600	53.2	234.8	45,200	59.4	238.9	42,600 b	80
85	39.1	220.6	38,000	49.1	230.8	41,900	55.7	235.7	39,400	85
90	33.7	213.8	35,500	44.8	226.1	38,900	51.7	232.0	36,700	90
95	27.5	205.4	33,400	40.0	220.6	36,300	47.5	227.8	34,200	95
100	19.5	193.8	31,500	34.8	214.1	34,000	43.0	222.8	32,000	100
105	3.3	169.0	30,400	28.7	206.0	31,900	38.1	217.0	30,100	105
110				21.2	195.3	30,000	32.7	210.0	28,300	110
115				8.9	176.6	28,200	26.2	201.1	26,600	115
120							17.6	188.6	25,100	120
125										125
130										130
135										135
140										140
145										145
150										150
155										155
160										160

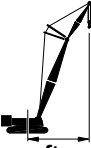
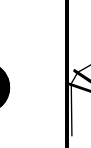
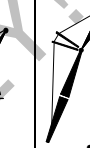
MLC165-1 S-2

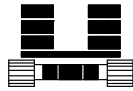
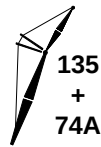
ASME B30.5



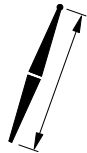
123,400 lb
+
45,100 lb



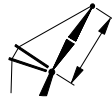
	75°			70°			65°			
										
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90	61.9	237.6	32,900 b							90
95	58.2	234.7	30,700 b							95
100	54.4	231.4	28,700							100
105	50.4	227.5	26,900							105
110	46.1	223.1	25,300	56.7	229.2	22,300				110
115	41.5	217.9	23,800	52.8	225.6	21,000				115
120	36.4	211.7	22,500	48.7	221.6	19,800				120
125	30.7	204.1	21,300	44.3	216.8	18,800				125
130	23.7	194.4	20,100	39.6	211.3	17,700	50.9	218.3	15,400	130
135	13.8	179.7	19,000	34.3	204.6	16,800	46.7	214.0	14,500	135
140				28.1	196.4	15,900	42.1	208.8	13,800	140
145				20.4	185.3	15,100	37.1	202.8	13,000	145
150				6.8	164.6	14,200	31.5	195.5	12,400	150
155							24.7	186.1	11,700	155
160							15.4	172.4	11,100	160



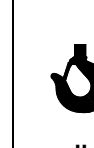
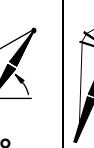
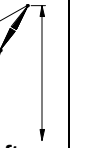
123,400 lb
+
45,100 lb



157.5 ft

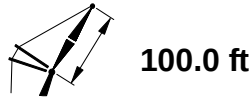
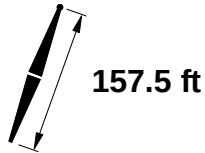
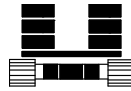
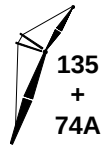


100.0 ft

	87°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
45		72.6	259.3	58,200 c						45
50		69.6	257.6	55,600 b						50
55		66.5	255.6	52,900 b						55
60		63.4	253.2	50,000 b	70.2	256.8	59,400 b			60
65		60.1	250.5	47,100	67.1	254.9	56,500 b			65
70		56.7	247.5	44,300	64.0	252.6	53,100 b			70
75		53.2	244.0	41,600	60.7	250.0	48,700	65.9	252.7	75
80		49.6	240.0	39,000	57.4	247.0	44,900	62.8	250.3	80
85		45.7	235.4	36,600	53.9	243.5	41,600	59.5	247.5	85
90		41.5	230.2	34,300	50.3	239.6	38,600	56.1	244.4	90
95		37.0	224.0	32,200	46.4	235.2	36,100	52.6	240.8	95
100		32.0	216.8	30,200	42.3	230.1	33,800	48.9	236.7	100
105		26.0	207.7	28,500	37.9	224.2	31,700	44.9	232.0	105
110		18.5	195.5	27,100	33.0	217.1	29,800	40.7	226.6	110
115		3.1	169.2	26,200	27.2	208.5	28,100	36.1	220.3	115
120					20.1	197.1	26,500	30.9	212.8	120
125					8.4	177.4	25,000	24.8	203.3	125
130								16.7	190.1	130
135										135
140										140
145										145
150										150
155										155
160										160
165										165
170										170

MLC165-1 S-2

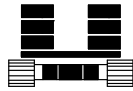
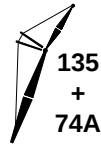
ASME B30.5



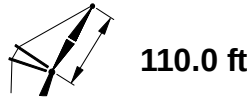
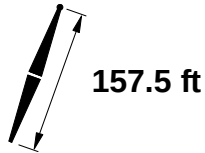
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95	61.7	246.3	30,200							95
100	58.4	243.4	28,300							100
105	55.0	240.1	26,500							105
110	51.4	236.4	24,900							110
115	47.6	232.1	23,500	57.1	237.8	20,600				115
120	43.6	227.2	22,200	53.6	234.4	19,400				120
125	39.3	221.5	20,900	49.9	230.4	18,300				125
130	34.5	214.9	19,800	46.1	225.9	17,400				130
135	29.1	206.8	18,800	42.0	220.8	16,400	51.9	227.1	14,100	135
140	22.5	196.4	17,800	37.5	214.8	15,600	48.1	222.9	13,300	140
145	13.1	180.8	16,900	32.5	207.6	14,800	44.2	218.1	12,600	145
150				26.7	198.8	14,000	39.9	212.6	12,000	150
155				19.3	187.0	13,300	35.2	206.1	11,400	155
160				6.5	165.1	12,600	29.8	198.2	10,800	160
165							23.4	188.3	10,200	165
170							14.7	173.8	9,600	170

MLC165-1 S-2

ASME B30.5



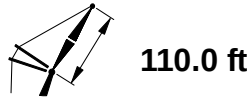
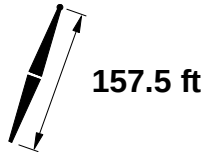
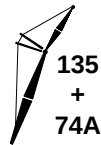
123,400 lb
+
45,100 lb



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
45	74.3	269.7	53,500 c							45
50	71.5	268.2	51,500 b							50
55	68.8	266.4	49,400 b							55
60	65.9	264.3	47,000 b							60
65	63.1	261.9	44,700	69.3	265.6	53,600 b				65
70	60.1	259.2	42,300	66.5	263.6	51,100 b				70
75	57.0	256.1	40,000	63.6	261.3	48,600				75
80	53.9	252.7	37,700	60.7	258.6	44,800	65.4	261.4	42,100 b	80
85	50.6	248.8	35,600	57.6	255.6	41,500	62.5	259.0	39,000	85
90	47.1	244.5	33,500	54.5	252.3	38,600	59.5	256.2	36,300	90
95	43.5	239.5	31,500	51.2	248.5	36,000	56.5	253.1	33,800	95
100	39.5	233.8	29,600	47.8	244.2	33,700	53.3	249.6	31,700	100
105	35.2	227.3	28,000	44.2	239.4	31,700	50.0	245.6	29,700	105
110	30.4	219.5	26,500	40.3	233.9	29,800	46.5	241.1	28,000	110
115	24.8	210.0	25,100	36.1	227.5	28,100	42.8	236.1	26,400	115
120	17.6	197.1	23,900	31.4	220.0	26,600	38.8	230.3	24,900	120
125	2.9	169.5	23,300	25.9	210.9	25,200	34.4	223.5	23,600	125
130				19.1	198.8	23,900	29.5	215.5	22,400	130
135				8.0	178.1	22,600	23.6	205.5	21,200	135
140							15.9	191.6	20,100	140
145										145
150										150
155										155
160										160
165										165
170										170
175										175
180										180

MLC165-1 S-2

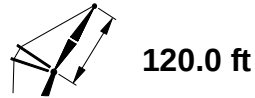
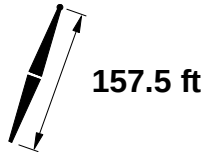
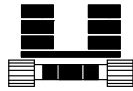
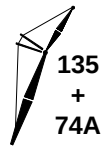
ASME B30.5



	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										85
90										90
95										95
100	61.6	254.9	28,200							100
105	58.5	252.1	26,500							105
110	55.4	248.8	24,900							110
115	52.2	245.2	23,400							115
120	48.8	241.0	22,100	57.3	246.5	19,400				120
125	45.3	236.4	20,900	54.2	243.1	18,300				125
130	41.5	231.1	19,800	50.9	239.3	17,300				130
135	37.4	225.0	18,800	47.5	235.0	16,400				135
140	32.9	217.9	17,900	43.8	230.1	15,600	52.6	235.9	13,300	140
145	27.7	209.3	17,000	39.9	224.5	14,800	49.3	231.9	12,600	145
150	21.4	198.4	16,100	35.7	218.1	14,000	45.8	227.3	12,000	150
155	12.5	182.0	15,300	30.9	210.4	13,300	42.0	222.1	11,400	155
160				25.4	201.1	12,700	37.9	216.1	10,800	160
165				18.4	188.7	12,100	33.5	209.2	10,200	165
170				6.2	165.7	11,400	28.4	200.8	9,700	170
175							22.3	190.3	9,200	175
180							14.0	175.0	8,700	180

MLC165-1 S-2

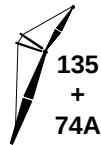
ASME B30.5



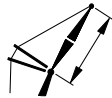
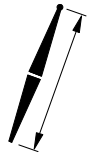
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
50	73.1	278.7	47,400 b							50
55	70.6	277.0	45,700 b							55
60	68.1	275.2	43,800 b							60
65	65.5	273.0	41,900							65
70	62.8	270.6	39,900	68.5	274.4	48,100 b				70
75	60.1	267.9	37,900	65.9	272.3	46,700				75
80	57.3	264.8	35,900	63.3	269.9	44,500	67.6	272.3	41,800	80
85	54.4	261.4	34,000	60.6	267.3	41,200	65.0	270.1	38,600	85
90	51.4	257.6	32,200	57.8	264.3	38,300	62.3	267.6	35,900	90
95	48.3	253.4	30,400	55.0	261.0	35,700	59.6	264.9	33,500	95
100	45.0	248.7	28,700	52.0	257.3	33,400	56.8	261.8	31,300	100
105	41.5	243.4	27,100	48.9	253.1	31,400	53.9	258.3	29,400	105
110	37.8	237.4	25,700	45.6	248.5	29,500	50.8	254.4	27,600	110
115	33.7	230.4	24,300	42.2	243.3	27,900	47.7	250.1	26,100	115
120	29.1	222.2	23,000	38.5	237.4	26,300	44.4	245.3	24,600	120
125	23.7	212.1	21,900	34.5	230.7	24,900	40.8	239.9	23,300	125
130	16.8	198.6	21,000	30.0	222.7	23,600	37.0	233.7	22,100	130
135	2.8	169.7	20,500	24.8	213.1	22,400	32.9	226.5	20,900	135
140				18.3	200.5	21,300	28.2	218.1	19,900	140
145				7.7	178.8	20,200	22.6	207.5	18,900	145
150							15.2	192.9	18,000	150
155										155
160										160
165										165
170										170
175										175
180										180
185										185
190										190

MLC165-1 S-2

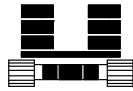
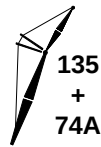
ASME B30.5



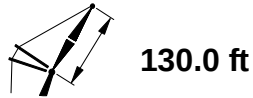
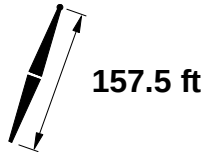
123,400 lb
+
45,100 lb



	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										100
105	61.4	263.6	26,100							105
110	58.7	260.7	24,500							110
115	55.8	257.5	23,100							115
120	52.9	253.9	21,800							120
125	49.8	249.9	20,600	57.6	255.2	17,900				125
130	46.6	245.5	19,500	54.7	251.8	16,900				130
135	43.3	240.4	18,500	51.7	248.1	16,000				135
140	39.6	234.8	17,500	48.6	243.9	15,200				140
145	35.7	228.3	16,600	45.3	239.3	14,400				145
150	31.4	220.8	15,800	41.9	234.0	13,700	50.2	240.7	11,500	150
155	26.5	211.7	15,100	38.2	228.0	13,000	47.1	236.3	10,900	155
160	20.5	200.2	14,300	34.1	221.2	12,300	43.7	231.4	10,400	160
165	11.9	183.0	13,600	29.6	213.1	11,700	40.1	225.8	9,900	165
170				24.3	203.3	11,200	36.3	219.5	9,300	170
175				17.6	190.2	10,600	32.0	212.1	8,900	175
180				5.9	166.2	10,000	27.2	203.3	8,400	180
185							21.4	192.2	8,000	185
190							13.4	176.2	7,500	190



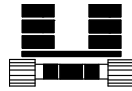
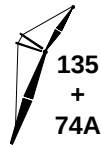
123,400 lb
+
45,100 lb



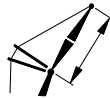
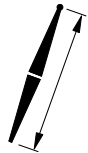
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
50	74.5	289.1	42,400 b							50
55	72.2	287.6	41,200 b							55
60	69.8	285.9	39,800 b							60
65	67.5	283.9	38,300							65
70	65.0	281.7	36,700	70.3	285.1	41,500 b				70
75	62.6	279.3	35,100	67.9	283.2	41,100				75
80	60.1	276.5	33,500	65.5	281.0	40,600				80
85	57.5	273.5	31,900	63.1	278.6	39,800	67.0	281.1	38,400	85
90	54.8	270.1	30,300	60.6	275.9	38,100	64.6	278.8	35,700	90
95	52.1	266.4	28,800	58.0	273.0	35,500	62.1	276.3	33,200	95
100	49.3	262.3	27,300	55.4	269.7	33,200	59.6	273.5	31,100	100
105	46.3	257.8	26,000	52.6	266.0	31,200	57.0	270.4	29,200	105
110	43.1	252.7	24,600	49.8	262.0	29,300	54.3	267.0	27,400	110
115	39.8	247.1	23,400	46.8	257.6	27,700	51.6	263.3	25,800	115
120	36.2	240.7	22,200	43.7	252.6	26,100	48.7	259.1	24,400	120
125	32.3	233.4	21,000	40.5	247.1	24,700	45.7	254.5	23,100	125
130	27.9	224.7	20,100	36.9	240.8	23,500	42.5	249.3	21,900	130
135	22.8	214.2	19,100	33.1	233.7	22,300	39.2	243.5	20,800	135
140	16.2	200.1	18,400	28.8	225.4	21,200	35.5	237.0	19,700	140
145	2.7	170.0	18,000	23.8	215.3	20,100	31.6	229.4	18,800	145
150				17.6	202.0	19,200	27.1	220.5	17,900	150
155				7.4	179.5	18,200	21.7	209.5	17,000	155
160							14.6	194.2	16,200	160
165										165
170										170
175										175
180										180
185										185
190										190
195										195
200										200

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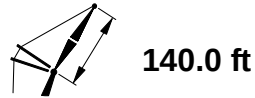
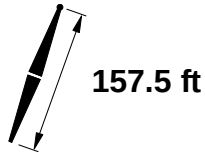
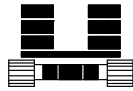
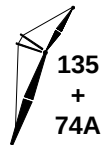
ASME B30.5



123,400 lb
+
45,100 lb



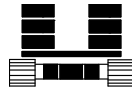
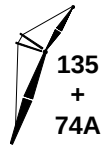
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110	61.3	272.3	24,200							110
115	58.8	269.4	22,800							115
120	56.2	266.2	21,500							120
125	53.5	262.7	20,300							125
130	50.7	258.8	19,200	57.8	263.9	16,700				130
135	47.8	254.5	18,200	55.1	260.5	15,800				135
140	44.7	249.7	17,300	52.4	256.9	14,900				140
145	41.5	244.3	16,400	49.5	252.8	14,100				145
150	38.0	238.3	15,600	46.6	248.3	13,400				150
155	34.3	231.5	14,900	43.5	243.3	12,800	51.0	249.6	10,700	155
160	30.2	223.5	14,200	40.2	237.7	12,100	48.1	245.3	10,100	160
165	25.4	214.0	13,500	36.6	231.4	11,500	45.1	240.6	9,600	165
170	19.7	202.0	12,800	32.7	224.2	11,000	41.9	235.3	9,100	170
175	11.5	184.0	12,200	28.4	215.7	10,400	38.5	229.4	8,600	175
180				23.3	205.4	9,900	34.8	222.7	8,200	180
185				16.9	191.8	9,400	30.7	214.9	7,700	185
190				5.7	166.7	8,900	26.1	205.7	7,300	190
195							20.5	194.1	6,800	195
200							12.8	177.4	6,400	200



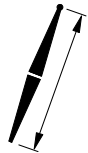
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
55	73.5	298.1	37,700 b							55
60	71.3	296.5	36,600 b							60
65	69.1	294.7	35,500							65
70	66.9	292.7	34,200							70
75	64.7	290.4	32,900	69.6	293.9	38,300				75
80	62.4	287.9	31,500	67.4	291.9	37,700				80
85	60.1	285.2	30,200	65.1	289.7	36,800				85
90	57.7	282.2	28,800	62.8	287.3	35,800	66.5	289.8	35,300	90
95	55.2	278.8	27,500	60.5	284.6	34,800	64.3	287.5	32,900	95
100	52.7	275.2	26,200	58.1	281.6	32,900	62.0	285.0	30,700	100
105	50.1	271.2	25,000	55.7	278.4	30,900	59.6	282.2	28,800	105
110	47.4	266.8	23,800	53.2	274.8	29,000	57.2	279.1	27,100	110
115	44.5	262.0	22,600	50.6	270.9	27,400	54.8	275.7	25,500	115
120	41.5	256.6	21,500	47.9	266.6	25,800	52.2	272.0	24,100	120
125	38.3	250.6	20,500	45.0	261.8	24,500	49.6	268.0	22,800	125
130	34.9	243.9	19,500	42.1	256.5	23,200	46.8	263.5	21,600	130
135	31.1	236.2	18,600	38.9	250.7	22,000	44.0	258.6	20,400	135
140	26.9	227.2	17,800	35.5	244.1	20,900	40.9	253.1	19,400	140
145	22.0	216.2	17,000	31.9	236.6	19,900	37.7	247.0	18,500	145
150	15.6	201.5	16,400	27.7	227.9	18,900	34.2	240.1	17,600	150
155	2.6	170.2	16,000	23.0	217.3	18,000	30.4	232.2	16,700	155
160				17.0	203.5	17,200	26.1	222.9	15,900	160
165				7.1	180.1	16,400	20.9	211.4	15,200	165
170							14.1	195.5	14,500	170
175										175
180										180
185										185
190										190
195										195
200										200
205										205
210										210

MLC165-1 S-2

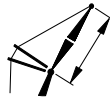
ASME B30.5



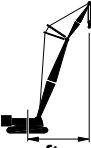
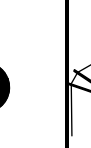
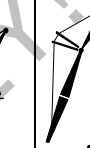
123,400 lb
+
45,100 lb

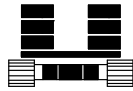
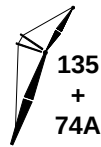


157.5 ft

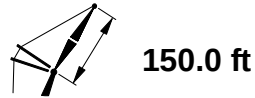
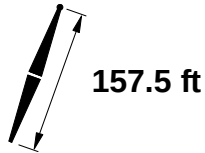


140.0 ft

	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										110
115	61.2	280.9	22,400							115
120	58.9	278.1	21,100							120
125	56.4	274.9	20,000							125
130	53.9	271.4	18,900							130
135	51.4	267.6	17,900	57.9	272.5	15,300				135
140	48.7	263.4	16,900	55.5	269.2	14,500				140
145	45.9	258.8	16,100	52.9	265.6	13,700				145
150	43.0	253.7	15,300	50.3	261.7	13,000				150
155	39.9	248.0	14,500	47.6	257.3	12,400				155
160	36.6	241.7	13,800	44.8	252.5	11,700	51.7	258.4	9,700	160
165	33.0	234.5	13,200	41.8	247.2	11,200	49.1	254.2	9,100	165
170	29.0	226.2	12,500	38.6	241.3	10,600	46.3	249.7	8,600	170
175	24.5	216.3	12,000	35.2	234.7	10,100	43.4	244.6	8,100	175
180	19.0	203.7	11,400	31.5	227.1	9,600	40.3	239.1	7,600	180
185	11.0	185.0	10,800	27.3	218.2	9,100	37.0	232.8	7,200	185
190				22.5	207.4	8,700	33.5	225.7	6,800	190
195				16.3	193.2	8,200	29.6	217.6	6,300	195
200				5.5	167.2	7,800	25.1	207.9	6,000	200
205							19.8	195.8	5,600	205
210							12.4	178.5	5,200	210



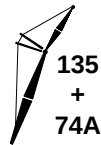
123,400 lb
+
45,100 lb



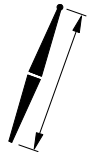
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
55	74.6	308.5	34,600 b							55
60	72.6	307.0	33,700 b							60
65	70.6	305.3	32,700							65
70	68.6	303.5	31,800							70
75	66.5	301.4	30,700	71.0	304.5	35,100				75
80	64.4	299.1	29,600	68.9	302.7	34,600				80
85	62.2	296.6	28,500	66.9	300.7	34,000				85
90	60.1	293.8	27,400	64.8	298.4	33,200				90
95	57.8	290.8	26,200	62.7	296.0	32,300	66.1	298.5	32,800	95
100	55.6	287.5	25,100	60.5	293.3	31,500	64.0	296.2	30,600	100
105	53.2	284.0	24,000	58.3	290.3	30,500	61.8	293.6	28,700	105
110	50.8	280.0	22,900	56.0	287.1	28,900	59.7	290.8	27,000	110
115	48.3	275.8	21,900	53.6	283.5	27,300	57.4	287.8	25,400	115
120	45.7	271.1	20,800	51.2	279.7	25,800	55.1	284.5	24,000	120
125	42.9	266.0	19,900	48.7	275.5	24,400	52.8	280.8	22,700	125
130	40.0	260.3	19,000	46.2	270.9	23,100	50.3	276.8	21,500	130
135	37.0	254.0	18,100	43.4	265.9	21,900	47.8	272.5	20,400	135
140	33.7	247.0	17,300	40.6	260.3	20,800	45.2	267.7	19,300	140
145	30.0	238.9	16,600	37.6	254.2	19,800	42.4	262.5	18,400	145
150	26.0	229.5	15,800	34.3	247.3	18,900	39.5	256.8	17,500	150
155	21.2	218.1	15,300	30.7	239.4	18,000	36.4	250.3	16,700	155
160	15.1	202.8	14,700	26.8	230.3	17,200	33.0	243.1	15,900	160
165	2.5	170.4	14,400	22.2	219.3	16,400	29.3	234.9	15,200	165
170				16.4	205.0	15,700	25.2	225.1	14,500	170
175				6.9	180.7	14,900	20.2	213.2	13,800	175
180							13.6	196.7	13,200	180
185										185
190										190
195										195
200										200
205										205
210										210
215										215
220										220

MLC165-1 S-2

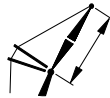
ASME B30.5



123,400 lb
+
45,100 lb



157.5 ft

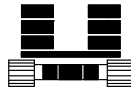
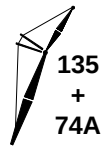


150.0 ft

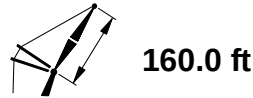
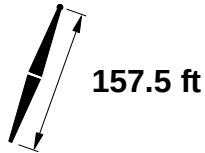
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110										110
115										115
120	61.1	289.6	21,000							120
125	58.9	286.7	19,800							125
130	56.7	283.6	18,800							130
135	54.4	280.1	17,800							135
140	52.0	276.4	16,800							140
145	49.5	272.3	16,000	55.8	277.9	13,600				145
150	46.9	267.8	15,200	53.4	274.4	12,900				150
155	44.3	262.9	14,500	51.0	270.5	12,300				155
160	41.5	257.6	13,800	48.5	266.3	11,700				160
165	38.5	251.6	13,100	45.9	261.7	11,100	52.3	267.1	8,900	165
170	35.3	244.9	12,500	43.2	256.6	10,500	49.8	263.1	8,400	170
175	31.9	237.4	11,900	40.3	251.0	10,000	47.3	258.7	7,900	175
180	28.0	228.7	11,400	37.3	244.8	9,500	44.6	253.9	7,500	180
185	23.6	218.4	10,800	34.0	237.8	9,100	41.8	248.5	7,000	185
190	18.3	205.3	10,300	30.4	229.8	8,600	38.9	242.7	6,600	190
195	10.7	186.0	9,800	26.4	220.6	8,200	35.7	236.1	6,200	195
200				21.7	209.4	7,800	32.3	228.7	5,800	200
205				15.8	194.6	7,400	28.6	220.2	5,500	205
210				5.3	167.7	7,000	24.3	210.1	5,100	210
215							19.1	197.5	4,800	215
220							12.0	179.5	4,400	220

MLC165-1 S-2

ASME B30.5



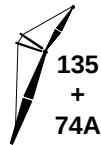
123,400 lb
+
45,100 lb



	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
60	73.7	317.4	30,800							60
65	71.8	315.9	30,100							65
70	70.0	314.2	29,300							70
75	68.0	312.2	28,400							75
80	66.1	310.1	27,500	70.3	313.4	31,400				80
85	64.1	307.8	26,600	68.4	311.5	31,000				85
90	62.1	305.3	25,600	66.5	309.4	30,500				90
95	60.1	302.5	24,700	64.5	307.1	29,800	67.7	309.4	30,000	95
100	58.0	299.5	23,800	62.5	304.6	29,100	65.7	307.3	30,000	100
105	55.8	296.2	22,800	60.5	301.9	28,400	63.7	304.9	28,400	105
110	53.6	292.7	21,900	58.4	299.0	27,600	61.7	302.3	26,600	110
115	51.4	288.9	21,000	56.2	295.8	26,800	59.7	299.5	25,100	115
120	49.1	284.7	20,100	54.1	292.3	25,500	57.6	296.5	23,600	120
125	46.6	280.2	19,200	51.8	288.5	24,100	55.4	293.2	22,300	125
130	44.1	275.2	18,400	49.5	284.4	22,800	53.2	289.6	21,100	130
135	41.5	269.8	17,600	47.1	279.9	21,600	51.0	285.7	20,000	135
140	38.7	263.9	16,800	44.6	275.1	20,600	48.6	281.4	19,000	140
145	35.8	257.3	16,100	42.0	269.8	19,500	46.2	276.8	18,100	145
150	32.6	250.0	15,500	39.2	263.9	18,600	43.6	271.8	17,200	150
155	29.1	241.6	14,800	36.3	257.5	17,700	41.0	266.3	16,400	155
160	25.1	231.8	14,200	33.2	250.3	16,900	38.2	260.3	15,600	160
165	20.5	219.9	13,700	29.8	242.1	16,100	35.2	253.6	14,900	165
170	14.6	204.1	13,300	25.9	232.6	15,400	31.9	246.0	14,200	170
175	2.4	170.7	13,100	21.5	221.2	14,700	28.4	237.4	13,600	175
180				15.9	206.4	14,100	24.3	227.3	12,900	180
185				6.7	181.3	13,400	19.5	214.9	12,400	185
190							13.2	197.9	11,800	190
195										195
200										200
205										205
210										210
215										215
220										220
225										225
230										230

MLC165-1 S-2

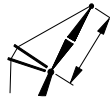
ASME B30.5



123,400 lb
+
45,100 lb



157.5 ft

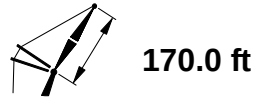
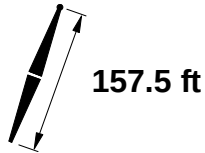
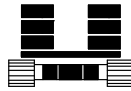
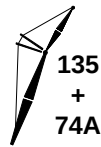


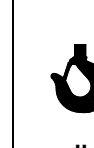
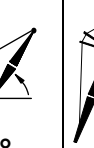
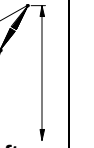
160.0 ft

	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										115
120										120
125	61.1	298.3	19,500							125
130	59.0	295.4	18,400							130
135	56.9	292.2	17,400							135
140	54.7	288.8	16,500							140
145	52.5	285.2	15,600							145
150	50.2	281.2	14,800	56.0	286.6	12,500				150
155	47.8	276.8	14,100	53.9	283.1	11,900				155
160	45.4	272.1	13,400	51.6	279.3	11,300				160
165	42.8	266.9	12,800	49.3	275.2	10,700				165
170	40.1	261.3	12,200	46.9	270.7	10,200	52.8	275.9	7,800	170
175	37.2	255.0	11,600	44.4	265.8	9,600	50.5	272.0	7,400	175
180	34.2	248.1	11,000	41.8	260.5	9,200	48.2	267.7	6,900	180
185	30.8	240.2	10,500	39.0	254.6	8,700	45.7	263.0	6,500	185
190	27.1	231.2	10,000	36.1	248.1	8,300	43.1	257.9	6,100	190
195	22.9	220.4	9,600	32.9	240.8	7,900	40.5	252.3	5,700	195
200	17.7	206.9	9,100	29.4	232.5	7,400	37.6	246.1	5,300	200
205	10.3	186.9	8,700	25.5	222.9	7,000	34.6	239.3	5,000	205
210				21.0	211.3	6,600	31.3	231.5	4,600	210
215				15.3	196.0	6,200	27.6	222.7	4,300	215
220				5.1	168.1	5,800	23.5	212.2	4,000	220
225							18.5	199.2	3,700	225
230							11.6	180.6	3,300	230

MLC165-1 S-2

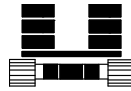
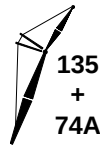
ASME B30.5



	87°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
60	74.7	327.8	28,200							60
65	73.0	326.4	27,600							65
70	71.2	324.8	27,000							70
75	69.4	323.0	26,200							75
80	67.6	321.0	25,500							80
85	65.7	318.8	24,800	69.7	322.2	28,200				85
90	63.9	316.5	24,000	67.9	320.3	27,800				90
95	62.0	313.9	23,200	66.1	318.1	27,400				95
100	60.1	311.2	22,400	64.2	315.8	26,900	67.2	318.2	26,500	100
105	58.1	308.2	21,600	62.3	313.3	26,300	65.4	316.0	26,400	105
110	56.1	304.9	20,800	60.4	310.6	25,600	63.5	313.6	26,300	110
115	54.0	301.4	20,000	58.5	307.6	24,600	61.6	311.0	24,800	115
120	51.9	297.7	19,200	56.5	304.4	23,600	59.7	308.2	23,400	120
125	49.7	293.6	18,500	54.4	301.0	22,700	57.7	305.1	22,100	125
130	47.5	289.2	17,700	52.3	297.3	21,700	55.7	301.8	20,900	130
135	45.2	284.4	17,000	50.2	293.3	20,700	53.6	298.3	19,800	135
140	42.7	279.2	16,300	47.9	288.9	19,800	51.5	294.5	18,800	140
145	40.2	273.6	15,700	45.6	284.2	18,900	49.3	290.3	17,800	145
150	37.5	267.4	15,000	43.2	279.1	18,100	47.1	285.9	17,000	150
155	34.7	260.5	14,400	40.7	273.6	17,200	44.7	281.0	16,100	155
160	31.6	252.8	13,900	38.0	267.5	16,400	42.3	275.8	15,400	160
165	28.2	244.1	13,300	35.2	260.7	15,600	39.7	270.0	14,700	165
170	24.4	234.0	12,400	32.2	253.2	14,600	37.0	263.7	14,000	170
175	19.9	221.7	11,600	28.8	244.7	13,700	34.1	256.7	13,300	175
180	14.1	205.4	10,800	25.1	234.9	12,700	31.0	248.9	12,700	180
185	2.4	170.9	10,200	20.8	223.1	11,900	27.5	239.9	12,200	185
190				15.4	207.8	11,100	23.6	229.5	11,600	190
195				6.5	181.9	10,400	19.0	216.6	11,100	195
200							12.8	199.0	10,600	200
205										205
210										210
215										215
220										220
225										225
230										230

MLC165-1 S-2

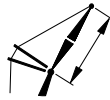
ASME B30.5



123,400 lb
+
45,100 lb



157.5 ft

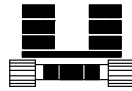
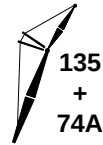


170.0 ft

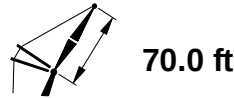
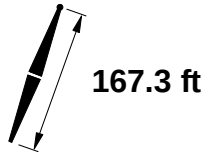
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110										110
115										115
120										120
125	62.9	309.6	19,200							125
130	61.0	306.9	18,100							130
135	59.1	304.0	17,100							135
140	57.1	300.9	16,200							140
145	55.0	297.6	15,400							145
150	53.0	293.9	14,600							150
155	50.8	290.0	13,900	56.3	295.3	11,600				155
160	48.6	285.8	13,200	54.2	291.9	11,000				160
165	46.3	281.2	12,500	52.1	288.1	10,400				165
170	43.9	276.2	11,900	50.0	284.1	9,900				170
175	41.5	270.8	11,400	47.7	279.7	9,400				175
180	38.8	264.9	10,800	45.4	275.0	8,900	51.1	280.8	6,500	180
185	36.1	258.3	10,300	43.0	269.8	8,400	48.9	276.6	6,100	185
190	33.1	251.1	9,800	40.5	264.2	8,000	46.6	272.0	5,700	190
195	29.9	242.9	9,400	37.8	258.1	7,500	44.3	267.1	5,300	195
200	26.3	233.5	8,900	34.9	251.3	7,100	41.8	261.8	4,900	200
205	22.2	222.4	8,500	31.9	243.7	6,700	39.2	255.9	4,600	205
210	17.2	208.5	8,100	28.5	235.1	6,300	36.5	249.5	4,300	210
215	10.0	187.8	7,700	24.8	225.1	5,900	33.5	242.3	3,900	215
220				20.4	213.1	5,600	30.3	234.3	3,600	220
225				14.8	197.3	5,200	26.8	225.1	3,300	225
230				4.9	168.6	4,800	22.8	214.3	3,100	230

MLC165-1 S-2

ASME B30.5



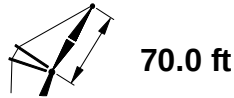
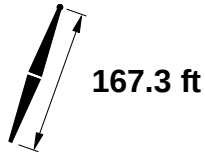
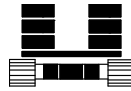
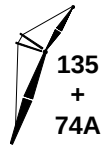
123,400 lb
+
45,100 lb



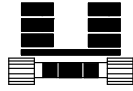
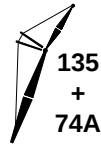
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
34	74.8	241.2	74,500 d							34
36	73.1	240.7	74,300 d							36
38	71.4	240.0	73,200 d							38
40	69.7	239.3	71,700 d							40
45	65.2	237.2	67,400 c							45
50	60.6	234.7	63,200 b							50
55	55.8	231.6	59,000 b	66.7	236.8	66,300 c				55
60	50.7	227.8	54,900 b	62.1	234.4	62,300 c				60
65	45.2	223.3	51,100	57.4	231.5	58,600 b	65.5	234.8	55,200 c	65
70	39.1	217.8	47,600	52.4	228.0	53,500 b	60.9	232.2	50,300 b	70
75	32.0	210.8	44,500	47.0	223.7	49,100	56.1	229.2	46,100 b	75
80	23.2	201.3	41,800	41.1	218.6	45,200	51.0	225.5	42,500 b	80
85	7.9	183.3	40,000	34.5	212.1	41,900	45.5	221.0	39,400	85
90				26.4	203.6	38,900	39.4	215.5	36,600	90
95				14.7	190.2	36,300	32.5	208.6	34,200	95
100							23.8	199.3	31,900	100
105							9.3	182.4	29,900	105
110										110
115										115
120										120
125										125
130										130
135										135
140										140
145										145

MLC165-1 S-2

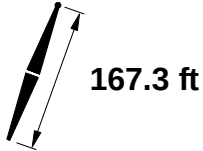
ASME B30.5



	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										75
80										80
85	60.1	228.4	35,200 b							85
90	55.3	225.3	32,700 b							90
95	50.1	221.5	30,500 b							95
100	44.6	216.9	28,500							100
105	38.4	211.2	26,800	54.1	219.9	23,600 b				105
110	31.2	204.0	25,200	48.9	215.9	22,100 b				110
115	22.1	194.1	23,700	43.2	211.1	20,800				115
120	3.6	172.1	22,200	36.9	205.2	19,600	52.5	213.0	17,000 b	120
125				29.4	197.5	18,500	47.2	208.7	16,000	125
130				19.5	186.5	17,500	41.3	203.6	15,100	130
135							34.6	197.2	14,300	135
140							26.6	188.7	13,500	140
145							15.1	175.6	12,700	145



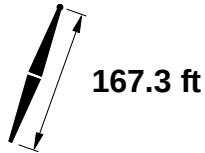
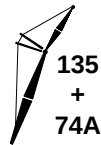
123,400 lb
+
45,100 lb



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
38	73.8	250.5	67,500 d							38
40	72.3	249.9	66,200 d							40
45	68.5	248.1	62,900 c							45
50	64.6	245.9	59,300 b							50
55	60.5	243.3	55,700 b	69.7	247.5	63,800 c				55
60	56.3	240.3	52,100 b	65.9	245.5	60,200 c				60
65	51.9	236.7	48,700	61.9	243.1	56,800 b				65
70	47.2	232.4	45,500	57.7	240.1	53,200 b	64.8	243.5	49,900 b	70
75	42.1	227.3	42,500	53.4	236.7	48,800	60.8	240.9	45,800 b	75
80	36.5	221.2	39,700	48.8	232.7	45,000	56.6	237.9	42,200 b	80
85	29.9	213.6	37,200	43.8	227.9	41,600	52.2	234.3	39,100	85
90	21.7	203.2	35,100	38.4	222.2	38,700	47.5	230.1	36,300	90
95	7.4	183.9	33,800	32.2	215.1	36,100	42.4	225.0	33,900	95
100				24.6	205.8	33,800	36.8	219.0	31,700	100
105				13.7	191.5	31,700	30.3	211.5	29,700	105
110							22.2	201.3	27,900	110
115							8.7	183.2	26,200	115
120										120
125										125
130										130
135										135
140										140
145										145
150										150
155										155

MLC165-1 S-2

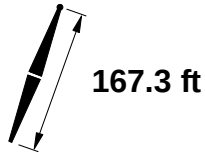
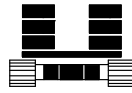
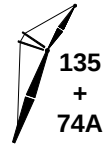
ASME B30.5

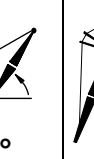


	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
38										38
40										40
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90	60.1	237.1	32,300 b							90
95	55.9	234.0	30,100 b							95
100	51.4	230.3	28,200							100
105	46.7	226.0	26,400							105
110	41.6	220.8	24,800	54.9	228.6	21,700 b				110
115	35.8	214.6	23,400	50.4	224.8	20,400				115
120	29.2	206.7	22,100	45.6	220.3	19,300				120
125	20.6	195.9	20,800	40.3	214.9	18,200				125
130	3.3	172.4	19,600	34.4	208.4	17,200	48.9	217.7	14,700	130
135				27.4	200.0	16,300	44.0	212.9	13,900	135
140				18.2	188.1	15,400	38.5	207.2	13,100	140
145							32.3	200.2	12,400	145
150							24.9	191.0	11,800	150
155							14.1	176.9	11,100	155

MLC165-1 S-2

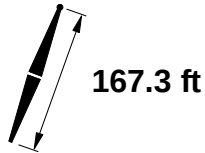
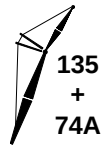
ASME B30.5



	87°			83°			80°			
										
	ft	ft	ft	lb	ft	lb	ft	lb	ft	ft
40	74.3	260.3	61,100 d							40
45	71.0	258.8	58,500 c							45
50	67.6	256.9	55,600 b							50
55	64.1	254.6	52,500 b							55
60	60.5	252.0	49,500 b	68.7	256.3	58,200 c				60
65	56.8	248.9	46,500	65.2	254.2	55,100 b				65
70	52.9	245.4	43,600	61.7	251.7	52,200 b	67.8	254.4	49,700 b	70
75	48.8	241.3	40,800	58.0	248.8	48,600 b	64.3	252.2	45,500 b	75
80	44.4	236.6	38,300	54.1	245.4	44,800	60.7	249.6	42,000 b	80
85	39.6	231.1	35,800	50.1	241.6	41,500	57.0	246.5	38,800	85
90	34.3	224.4	33,700	45.8	237.1	38,600	53.1	243.0	36,100	90
95	28.2	216.2	31,700	41.2	231.8	36,000	49.0	239.0	33,700	95
100	20.4	205.1	30,000	36.1	225.5	33,700	44.6	234.3	31,500	100
105	6.9	184.6	28,900	30.3	217.9	31,700	39.9	228.8	29,600	105
110				23.2	208.0	29,800	34.6	222.2	27,900	110
115				12.9	192.6	28,000	28.5	214.1	26,300	115
120							20.9	203.2	24,800	120
125							8.2	184.0	23,400	125
130										130
135										135
140										140
145										145
150										150
155										155
160										160
165										165

MLC165-1 S-2

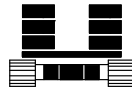
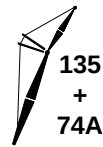
ASME B30.5



	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										85
90										90
95	60.1	245.8	29,900 b							95
100	56.4	242.7	27,900							100
105	52.4	239.1	26,200							105
110	48.3	234.9	24,600							110
115	43.9	230.1	23,200	55.5	237.3	20,200				115
120	39.1	224.5	21,900	51.5	233.6	19,000				120
125	33.7	217.7	20,700	47.3	229.3	18,000				125
130	27.5	209.2	19,600	42.8	224.4	17,000				130
135	19.5	197.7	18,500	37.9	218.5	16,100	50.2	226.6	13,600	135
140	3.2	172.7	17,500	32.4	211.4	15,200	45.9	222.1	12,900	140
145				25.8	202.4	14,500	41.3	216.8	12,200	145
150				17.1	189.7	13,700	36.2	210.6	11,600	150
155							30.4	203.0	11,000	155
160							23.4	193.2	10,400	160
165							13.3	178.1	9,800	165

MLC165-1 S-2

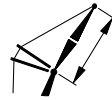
ASME B30.5



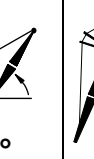
123,400 lb
+
45,100 lb



167.3 ft

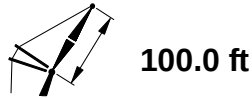
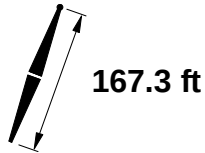
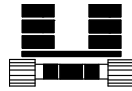
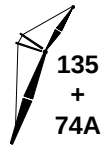


100.0 ft

	87°			83°			80°			
										
	ft	ft	lb	ft	ft	lb	ft	lb	ft	ft
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110										110
115										115
120										120
125										125
130										130
135										135
140										140
145										145
150										150
155										155
160										160
165										165
170										170
175										175

MLC165-1 S-2

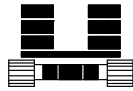
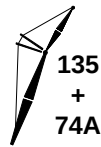
ASME B30.5



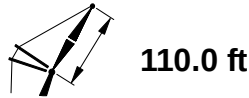
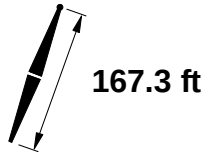
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
45										45
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100	60.1	254.4	27,500							100
105	56.7	251.3	25,800							105
110	53.2	247.8	24,200							110
115	49.6	243.9	22,800							115
120	45.7	239.3	21,500	55.9	246.0	18,600				120
125	41.5	234.0	20,400	52.4	242.4	17,600				125
130	37.0	227.9	19,300	48.7	238.3	16,600				130
135	31.9	220.6	18,300	44.8	233.6	15,700				135
140	26.0	211.6	17,300	40.5	228.2	14,900	51.3	235.4	12,500	140
145	18.4	199.4	16,400	35.9	221.8	14,100	47.5	231.1	11,800	145
150	3.0	173.0	15,500	30.7	214.2	13,400	43.5	226.2	11,200	150
155				24.5	204.6	12,700	39.1	220.5	10,600	155
160				16.3	191.2	12,000	34.3	213.8	10,000	160
165							28.9	205.6	9,500	165
170							22.2	195.2	9,000	170
175							12.6	179.2	8,500	175

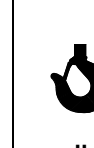
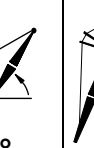
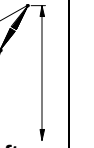
MLC165-1 S-2

ASME B30.5



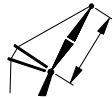
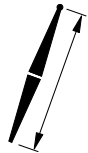
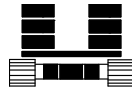
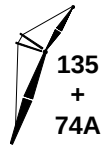
123,400 lb
+
45,100 lb



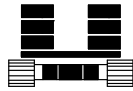
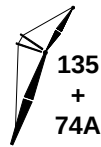
	87°			83°			80°			
										
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
45	74.5	279.7	49,800 c							45
50	71.8	278.2	48,000 b							50
55	69.0	276.4	46,000 b							55
60	66.2	274.3	43,900 b							60
65	63.4	272.0	41,800	70.0	275.8	49,900 b				65
70	60.4	269.3	39,700	67.2	273.9	48,200 b				70
75	57.4	266.3	37,500	64.3	271.6	45,900				75
80	54.2	262.9	35,400	61.4	269.0	43,800	66.4	271.9	41,500 b	80
85	50.9	259.1	33,500	58.4	266.1	41,100	63.5	269.5	38,400	85
90	47.5	254.8	31,600	55.2	262.9	38,200	60.6	266.9	35,700	90
95	43.8	249.9	29,800	52.0	259.2	35,700	57.5	263.9	33,300	95
100	39.9	244.3	28,100	48.6	255.0	33,400	54.4	260.5	31,200	100
105	35.7	237.9	26,600	45.1	250.3	31,400	51.1	256.7	29,300	105
110	31.0	230.2	25,200	41.2	245.0	29,500	47.7	252.4	27,500	110
115	25.4	220.9	23,900	37.1	238.9	27,900	44.0	247.6	26,000	115
120	18.5	208.5	22,900	32.6	231.7	26,300	40.2	242.0	24,500	120
125	6.3	185.7	22,200	27.3	223.0	24,900	35.9	235.6	23,200	125
130				21.0	211.9	23,600	31.2	228.1	22,000	130
135				11.7	194.8	22,400	25.8	218.9	20,900	135
140							18.9	206.7	19,800	140
145							7.5	185.3	18,800	145
150										150
155										155
160										160
165										165
170										170
175										175
180										180
185										185

MLC165-1 S-2

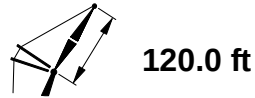
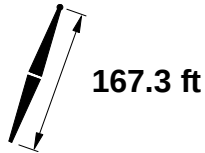
ASME B30.5



	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										85
90										90
95										95
100										100
105	60.1	263.1	25,800							105
110	57.0	260.0	24,200							110
115	53.9	256.6	22,800							115
120	50.6	252.7	21,500							120
125	47.1	248.3	20,300	56.3	254.7	17,500				125
130	43.4	243.4	19,300	53.1	251.2	16,600				130
135	39.5	237.7	18,300	49.8	247.2	15,700				135
140	35.2	231.2	17,300	46.3	242.7	14,900				140
145	30.4	223.4	16,500	42.6	237.6	14,100	52.1	244.2	11,800	145
150	24.8	213.9	15,700	38.6	231.7	13,400	48.7	240.0	11,200	150
155	17.6	201.0	14,900	34.2	225.0	12,700	45.1	235.4	10,600	155
160	2.9	173.2	14,100	29.2	216.9	12,100	41.3	230.1	10,000	160
165				23.3	206.7	11,500	37.2	223.9	9,500	165
170				15.5	192.6	10,900	32.7	216.8	9,000	170
175							27.5	208.2	8,600	175
180							21.2	197.1	8,100	180
185							12.0	180.3	7,600	185



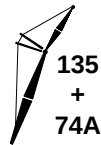
123,400 lb
+
45,100 lb



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
50	73.4	288.7	44,200 b							50
55	70.9	287.0	42,700 b							55
60	68.3	285.2	41,000 b							60
65	65.7	283.1	39,300							65
70	63.1	280.7	37,400	69.2	284.6	44,800 b				70
75	60.4	278.0	35,500	66.6	282.6	43,600				75
80	57.6	275.0	33,800	63.9	280.3	42,200				80
85	54.7	271.6	32,100	61.3	277.7	40,500	65.9	280.6	38,000	85
90	51.7	267.9	30,300	58.5	274.8	37,900	63.2	278.2	35,300	90
95	48.6	263.7	28,700	55.6	271.6	35,400	60.5	275.5	33,000	95
100	45.4	259.0	27,200	52.7	268.0	33,100	57.7	272.6	30,800	100
105	41.9	253.8	25,700	49.6	263.9	31,100	54.9	269.2	28,900	105
110	38.2	247.8	24,300	46.4	259.4	29,200	51.9	265.5	27,200	110
115	34.1	241.0	23,100	43.0	254.4	27,600	48.8	261.4	25,600	115
120	29.6	233.0	21,900	39.4	248.7	26,100	45.5	256.7	24,200	120
125	24.3	223.1	20,900	35.5	242.2	24,700	42.1	251.5	22,900	125
130	17.7	210.1	20,100	31.1	234.5	23,400	38.4	245.6	21,700	130
135	6.0	186.2	19,500	26.2	225.4	22,200	34.4	238.8	20,600	135
140				20.1	213.7	21,100	29.9	230.8	19,600	140
145				11.2	195.8	20,000	24.6	221.1	18,600	145
150							18.1	208.3	17,700	150
155							7.1	186.0	16,800	155
160										160
165										165
170										170
175										175
180										180
185										185
190										190
195										195

MLC165-1 S-2

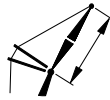
ASME B30.5



123,400 lb
+
45,100 lb

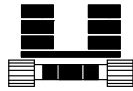
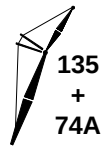


167.3 ft

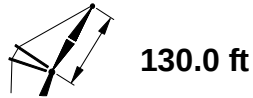
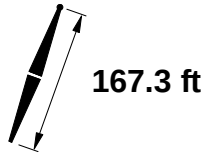


120.0 ft

	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										100
105	62.8	274.5	25,300							105
110	60.1	271.7	23,800							110
115	57.3	268.7	22,400							115
120	54.4	265.3	21,100							120
125	51.4	261.5	20,000							125
130	48.3	257.3	18,900	56.6	263.4	16,100				130
135	45.0	252.6	17,900	53.7	259.9	15,300				135
140	41.5	247.3	17,000	50.7	256.0	14,500				140
145	37.8	241.2	16,100	47.5	251.7	13,700				145
150	33.7	234.3	15,300	44.2	246.9	13,000	52.8	253.0	10,700	150
155	29.1	226.1	14,600	40.7	241.4	12,400	49.7	248.9	10,100	155
160	23.7	216.0	13,900	36.9	235.2	11,700	46.5	244.5	9,600	160
165	16.8	202.5	13,200	32.7	228.0	11,200	43.1	239.4	9,000	165
170	2.7	173.5	12,500	28.0	219.4	10,600	39.5	233.7	8,500	170
175				22.3	208.8	10,100	35.6	227.2	8,000	175
180				14.8	193.9	9,600	31.3	219.6	7,600	180
185							26.3	210.5	7,100	185
190							20.2	198.9	6,700	190
195							11.5	181.3	6,300	195



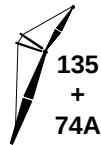
123,400 lb
+
45,100 lb



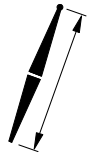
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
50	74.7	299.1	39,800 b							50
55	72.4	297.6	38,600 b							55
60	70.1	295.9	37,300 b							60
65	67.7	294.0	35,900							65
70	65.3	291.8	34,500	70.8	295.3	40,100 b				70
75	62.8	289.3	33,000	68.5	293.4	39,400				75
80	60.3	286.6	31,600	66.1	291.3	38,500				80
85	57.8	283.6	30,100	63.6	289.0	37,300	67.8	291.5	37,800	85
90	55.1	280.3	28,600	61.2	286.4	36,100	65.4	289.3	35,100	90
95	52.4	276.7	27,200	58.6	283.5	34,800	63.0	286.9	32,700	95
100	49.6	272.6	25,900	56.0	280.3	32,900	60.5	284.2	30,600	100
105	46.6	268.1	24,600	53.3	276.7	30,900	57.9	281.2	28,700	105
110	43.5	263.1	23,400	50.5	272.8	29,000	55.3	277.9	27,000	110
115	40.2	257.5	22,200	47.6	268.4	27,400	52.5	274.3	25,400	115
120	36.6	251.2	21,100	44.5	263.6	25,900	49.7	270.2	24,000	120
125	32.8	244.0	20,000	41.3	258.2	24,500	46.8	265.8	22,700	125
130	28.4	235.5	19,100	37.8	252.2	23,200	43.6	260.8	21,500	130
135	23.4	225.2	18,300	34.0	245.3	22,000	40.4	255.3	20,400	135
140	17.0	211.6	17,600	29.9	237.3	20,900	36.8	249.0	19,400	140
145	5.8	186.8	17,200	25.1	227.7	19,900	33.0	241.8	18,400	145
150				19.3	215.4	19,000	28.7	233.4	17,500	150
155				10.8	196.7	18,000	23.7	223.3	16,700	155
160							17.4	209.9	15,900	160
165							6.9	186.6	15,100	165
170										170
175										175
180										180
185										185
190										190
195										195
200										200
205										205

MLC165-1 S-2

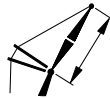
ASME B30.5



123,400 lb
+
45,100 lb

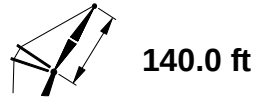
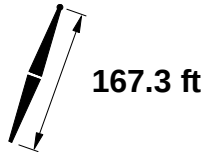
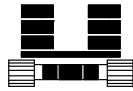
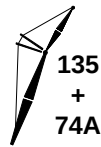


167.3 ft



130.0 ft

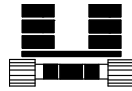
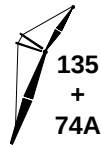
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
50										50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110	62.6	283.1	23,500							110
115	60.1	280.4	22,100							115
120	57.5	277.4	20,900							120
125	54.8	274.0	19,700							125
130	52.1	270.3	18,700							130
135	49.3	266.2	17,700	56.9	272.1	15,000				135
140	46.3	261.7	16,800	54.2	268.6	14,200				140
145	43.1	256.6	15,900	51.5	264.8	13,500				145
150	39.8	251.0	15,100	48.6	260.7	12,800				150
155	36.2	244.6	14,400	45.6	256.0	12,100				155
160	32.3	237.2	13,700	42.4	250.8	11,500	50.6	257.8	9,200	160
165	27.9	228.6	13,000	39.0	245.0	10,900	47.6	253.5	8,600	165
170	22.8	218.1	12,400	35.4	238.4	10,400	44.6	248.7	8,100	170
175	16.2	203.9	11,800	31.4	230.8	9,900	41.4	243.3	7,700	175
180	2.6	173.7	11,200	26.8	221.8	9,400	37.9	237.2	7,200	180
185				21.4	210.7	8,900	34.1	230.4	6,800	185
190				14.3	195.2	8,500	30.0	222.4	6,400	190
195							25.2	212.8	6,000	195
200							19.4	200.7	5,600	200
205							11.1	182.3	5,200	205



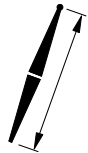
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
55	73.7	308.0	35,500 b							55
60	71.5	306.5	34,500 b							60
65	69.4	304.7	33,300							65
70	67.2	302.7	32,100							70
75	64.9	300.5	31,000	70.1	304.1	36,100				75
80	62.6	298.0	29,700	67.9	302.2	35,400				80
85	60.3	295.3	28,400	65.7	300.1	34,600				85
90	57.9	292.3	27,200	63.4	297.7	33,700	67.3	300.2	34,700	90
95	55.5	289.0	26,000	61.1	295.0	32,600	65.0	298.0	32,300	95
100	53.0	285.4	24,800	58.7	292.1	31,600	62.8	295.6	30,200	100
105	50.4	281.5	23,600	56.3	289.0	30,400	60.4	292.9	28,300	105
110	47.6	277.1	22,500	53.8	285.5	28,700	58.1	289.9	26,600	110
115	44.8	272.3	21,400	51.2	281.6	27,100	55.6	286.6	25,100	115
120	41.8	267.0	20,400	48.5	277.4	25,600	53.1	283.0	23,700	120
125	38.7	261.1	19,500	45.7	272.8	24,200	50.5	279.1	22,400	125
130	35.2	254.5	18,500	42.8	267.6	22,900	47.8	274.8	21,200	130
135	31.5	246.9	17,700	39.7	261.9	21,800	45.0	270.0	20,100	135
140	27.4	238.0	16,900	36.4	255.5	20,700	42.0	264.7	19,100	140
145	22.5	227.3	16,200	32.8	248.3	19,700	38.8	258.9	18,100	145
150	16.4	213.1	15,700	28.8	239.9	18,700	35.4	252.3	17,200	150
155	5.6	187.3	15,300	24.2	229.8	17,800	31.7	244.7	16,400	155
160				18.6	217.1	17,000	27.6	235.9	15,600	160
165				10.4	197.7	16,200	22.8	225.3	14,900	165
170							16.7	211.4	14,200	170
175							6.6	187.2	13,500	175
180										180
185										185
190										190
195										195
200										200
205										205
210										210
215										215

MLC165-1 S-2

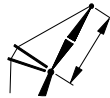
ASME B30.5



123,400 lb
+
45,100 lb

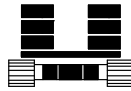
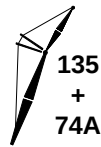


167.3 ft

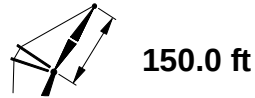
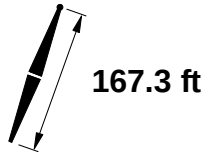


140.0 ft

	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										110
115	62.4	291.8	21,800							115
120	60.1	289.1	20,500							120
125	57.7	286.0	19,300							125
130	55.2	282.7	18,300							130
135	52.7	279.1	17,300							135
140	50.1	275.1	16,400	57.1	280.7	13,800				140
145	47.3	270.7	15,600	54.7	277.4	13,000				145
150	44.5	265.9	14,800	52.1	273.6	12,400				150
155	41.5	260.5	14,100	49.5	269.6	11,700				155
160	38.3	254.5	13,400	46.7	265.1	11,100				160
165	34.9	247.8	12,700	43.8	260.1	10,600	51.3	266.6	8,000	165
170	31.1	240.1	12,100	40.8	254.6	10,000	48.6	262.4	7,600	170
175	26.9	231.1	11,500	37.6	248.5	9,500	45.8	257.8	7,100	175
180	21.9	220.0	11,000	34.1	241.5	9,000	42.9	252.7	6,700	180
185	15.6	205.3	10,500	30.2	233.6	8,600	39.8	247.0	6,200	185
190	2.5	173.9	9,900	25.8	224.2	8,200	36.5	240.6	5,800	190
195				20.7	212.5	7,700	32.9	233.4	5,500	195
200				13.7	196.4	7,300	28.9	225.0	5,100	200
205							24.3	215.0	4,700	205
210							18.7	202.3	4,400	210
215							10.6	183.3	4,000	215



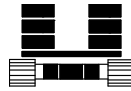
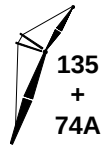
123,400 lb
+
45,100 lb



	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
55	74.8	318.4	32,600 b							55
60	72.8	317.0	31,800 b							60
65	70.8	315.3	31,000							65
70	68.8	313.5	30,000							70
75	66.7	311.4	29,000							75
80	64.6	309.2	27,900	69.4	312.9	32,500				80
85	62.5	306.7	26,900	67.4	311.0	32,000				85
90	60.3	304.0	25,800	65.3	308.8	31,300				90
95	58.1	301.0	24,800	63.2	306.3	30,500	66.8	309.0	32,200	95
100	55.8	297.7	23,700	61.0	303.7	29,700	64.7	306.7	30,100	100
105	53.4	294.2	22,700	58.8	300.8	28,700	62.6	304.2	28,200	105
110	51.0	290.3	21,700	56.5	297.6	27,800	60.4	301.5	26,500	110
115	48.5	286.1	20,700	54.2	294.2	26,800	58.2	298.6	25,000	115
120	45.9	281.4	19,800	51.8	290.4	25,500	55.9	295.3	23,600	120
125	43.2	276.4	18,900	49.4	286.3	24,100	53.6	291.8	22,300	125
130	40.3	270.8	18,100	46.8	281.8	22,800	51.2	287.9	21,100	130
135	37.3	264.6	17,300	44.1	276.9	21,700	48.7	283.7	20,000	135
140	34.0	257.6	16,500	41.3	271.5	20,600	46.1	279.1	19,000	140
145	30.4	249.6	15,800	38.3	265.5	19,600	43.4	274.1	18,000	145
150	26.4	240.4	15,200	35.1	258.8	18,700	40.5	268.5	17,200	150
155	21.7	229.2	14,600	31.6	251.2	17,800	37.5	262.3	16,400	155
160	15.8	214.5	14,000	27.8	242.4	17,000	34.2	255.4	15,600	160
165	5.4	187.7	13,800	23.4	231.9	16,200	30.6	247.5	14,900	165
170				17.9	218.7	15,500	26.6	238.4	14,200	170
175				10.0	198.6	14,800	22.0	227.3	13,600	175
180							16.2	212.8	12,900	180
185							6.4	187.7	12,300	185
190										190
195										195
200										200
205										205
210										210
215										215
220										220
225										225

MLC165-1 S-2

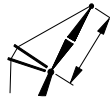
ASME B30.5



123,400 lb
+
45,100 lb

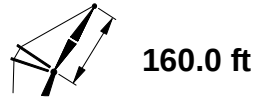
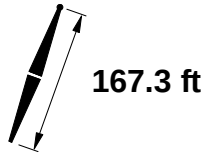
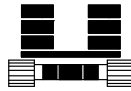
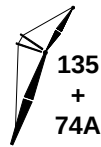


167.3 ft



150.0 ft

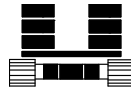
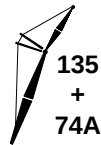
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110										110
115										115
120	62.2	300.5	20,400							120
125	60.1	297.7	19,200							125
130	57.8	294.7	18,200							130
135	55.5	291.4	17,200							135
140	53.2	287.8	16,300							140
145	50.8	283.9	15,500	57.3	289.4	12,900				145
150	48.3	279.7	14,700	55.0	286.1	12,300				150
155	45.7	275.0	14,000	52.7	282.4	11,600				155
160	42.9	269.9	13,300	50.2	278.4	11,000				160
165	40.0	264.2	12,700	47.7	274.1	10,500				165
170	37.0	257.9	12,100	45.0	269.3	9,900	51.9	275.4	7,400	170
175	33.7	250.9	11,500	42.3	264.1	9,400	49.4	271.3	6,900	175
180	30.0	242.8	10,900	39.3	258.3	9,000	46.9	266.8	6,500	180
185	26.0	233.4	10,400	36.2	251.8	8,500	44.2	261.9	6,100	185
190	21.2	221.9	9,900	32.9	244.6	8,100	41.4	256.5	5,700	190
195	15.0	206.7	9,500	29.2	236.2	7,600	38.4	250.5	5,300	195
200	2.4	174.1	9,000	25.0	226.4	7,200	35.2	243.8	5,000	200
205				20.0	214.3	6,800	31.7	236.3	4,600	205
210				13.3	197.6	6,400	27.9	227.5	4,300	210
215							23.5	217.1	4,000	215
220							18.1	204.0	3,700	220
225							10.3	184.2	3,400	225



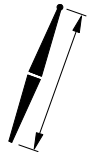
	87°			83°			80°			
	ft	ft	lb	ft	ft	lb	ft	lb	ft	
60	73.9	327.4	29,200 b							60
65	72.0	325.9	28,400							65
70	70.2	324.2	27,700							70
75	68.2	322.3	26,900							75
80	66.3	320.2	26,000	70.8	323.6	29,700				80
85	64.3	317.9	25,100	68.9	321.7	29,300				85
90	62.3	315.4	24,300	66.9	319.7	28,700				90
95	60.3	312.6	23,400	65.0	317.5	28,200				95
100	58.2	309.6	22,500	63.0	315.0	27,500	66.4	317.7	28,600	100
105	56.1	306.4	21,600	60.9	312.4	26,800	64.4	315.4	27,900	105
110	53.9	302.9	20,700	58.9	309.5	26,100	62.4	312.9	26,200	110
115	51.6	299.1	19,800	56.8	306.3	25,300	60.4	310.2	24,600	115
120	49.3	295.0	19,000	54.6	302.9	24,500	58.3	307.2	23,200	120
125	46.9	290.5	18,200	52.4	299.2	23,600	56.2	304.0	21,900	125
130	44.4	285.6	17,500	50.1	295.2	22,500	54.0	300.5	20,800	130
135	41.8	280.3	16,700	47.7	290.8	21,400	51.7	296.7	19,700	135
140	39.0	274.4	16,000	45.2	286.1	20,300	49.4	292.6	18,700	140
145	36.1	267.9	15,300	42.6	280.9	19,300	47.0	288.2	17,700	145
150	32.9	260.6	14,700	39.9	275.2	18,400	44.5	283.3	16,900	150
155	29.4	252.3	14,100	37.0	268.9	17,500	41.9	278.0	16,100	155
160	25.6	242.7	13,500	34.0	261.9	16,700	39.2	272.1	15,300	160
165	21.0	231.1	13,100	30.6	254.0	16,000	36.2	265.6	14,600	165
170	15.3	215.9	12,700	26.9	244.8	15,200	33.1	258.4	13,900	170
175	5.2	188.2	12,500	22.6	234.0	14,500	29.6	250.2	13,300	175
180				17.4	220.2	13,900	25.8	240.7	12,700	180
185				9.7	199.4	13,300	21.3	229.2	12,100	185
190							15.6	214.2	11,500	190
195							6.2	188.3	11,000	195
200										200
205										205
210										210
215										215
220										220

MLC165-1 S-2

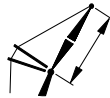
ASME B30.5



123,400 lb
+
45,100 lb

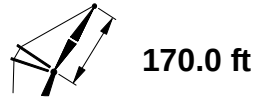
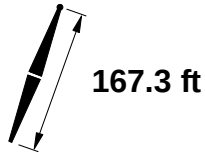
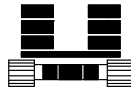
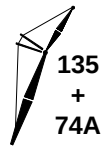


167.3 ft



160.0 ft

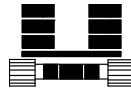
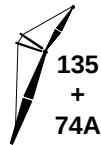
	75°			70°			65°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
105										105
110										110
115										115
120										120
125	62.1	309.1	18,800							125
130	60.1	306.4	17,800							130
135	58.0	303.4	16,800							135
140	55.8	300.1	15,900							140
145	53.6	296.6	15,100							145
150	51.4	292.8	14,300	57.5	298.1	11,900				150
155	49.1	288.6	13,600	55.3	294.8	11,200				155
160	46.6	284.1	12,900	53.1	291.2	10,600				160
165	44.1	279.1	12,300	50.9	287.3	10,100				165
170	41.5	273.7	11,700	48.5	283.0	9,500				170
175	38.7	267.8	11,200	46.1	278.4	9,000	52.4	284.2	6,400	175
180	35.7	261.2	10,600	43.5	273.4	8,500	50.1	280.2	5,900	180
185	32.6	253.8	10,100	40.9	267.8	8,000	47.7	275.8	5,500	185
190	29.1	245.4	9,600	38.1	261.8	7,600	45.3	271.1	5,100	190
195	25.1	235.7	9,200	35.0	255.0	7,100	42.7	265.9	4,800	195
200	20.5	223.8	8,700	31.8	247.4	6,700	40.0	260.2	4,400	200
205	14.6	208.0	8,300	28.2	238.8	6,300	37.1	253.9	4,100	205
210	2.4	174.3	7,900	24.2	228.6	6,000	34.0	247.0	3,800	210
215				19.3	216.1	5,600	30.7	239.1	3,500	215
220				12.8	198.7	5,200	27.0	230.0	3,200	220



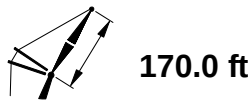
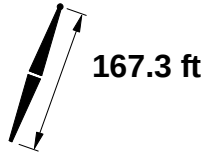
	87°			83°			80°			
	ft	ft	lb	ft	lb	ft	lb	ft	lb	ft
65	73.1	336.4	26,100							65
70	71.4	334.8	25,600							70
75	69.6	333.0	24,900							75
80	67.8	331.0	24,300							80
85	65.9	328.9	23,600	70.2	332.4	26,300				85
90	64.1	326.6	22,900	68.4	330.5	26,100				90
95	62.2	324.0	22,200	66.5	328.4	25,800				95
100	60.3	321.3	21,400	64.7	326.2	25,400				100
105	58.3	318.3	20,700	62.8	323.7	24,800	66.0	326.4	24,600	105
110	56.3	315.1	19,900	60.9	321.0	24,100	64.2	324.1	24,600	110
115	54.2	311.6	19,200	58.9	318.1	23,100	62.3	321.6	24,400	115
120	52.1	307.9	18,400	57.0	315.0	22,300	60.4	318.8	23,000	120
125	50.0	303.9	17,800	54.9	311.6	21,400	58.4	315.9	21,700	125
130	47.7	299.5	17,100	52.8	308.0	20,500	56.4	312.7	20,600	130
135	45.4	294.7	16,400	50.7	304.0	19,600	54.4	309.2	19,500	135
140	43.0	289.6	15,800	48.5	299.8	18,800	52.3	305.5	18,500	140
145	40.5	284.0	15,100	46.2	295.2	18,000	50.1	301.5	17,500	145
150	37.8	277.9	14,500	43.8	290.1	17,200	47.9	297.1	16,700	150
155	35.0	271.1	13,900	41.3	284.7	16,300	45.5	292.4	15,900	155
160	31.9	263.5	13,400	38.7	278.7	15,600	43.1	287.3	15,100	160
165	28.5	254.9	12,600	35.9	272.2	14,800	40.6	281.7	14,400	165
170	24.8	244.9	11,800	32.9	264.9	14,000	37.9	275.6	13,700	170
175	20.4	232.9	11,000	29.7	256.6	13,100	35.1	268.9	13,100	175
180	14.8	217.2	10,300	26.1	247.2	12,200	32.1	261.3	12,500	180
185	5.1	188.6	9,600	21.9	235.9	11,400	28.7	252.8	12,000	185
190				16.8	221.7	10,600	25.0	242.9	11,400	190
195				9.4	200.3	9,900	20.7	231.1	10,900	195
200							15.2	215.6	10,400	200
205							6.0	188.8	9,800	205
210										210
215										215
220										220
225										225
230										230

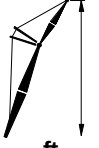
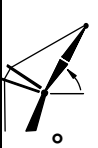
MLC165-1 S-2

ASME B30.5



123,400 lb
+
45,100 lb



	75°			70°			
							
	ft	ft	lb	ft	lb	ft	
65							65
70							70
75							75
80							80
85							85
90							90
95							95
100							100
105							105
110							110
115							115
120							120
125							125
130	62.0	317.8	17,600				130
135	60.1	315.0	16,600				135
140	58.1	312.0	15,700				140
145	56.1	308.8	14,900				145
150	54.0	305.3	14,100				150
155	51.9	301.5	13,400				155
160	49.7	297.5	12,700	55.6	303.5	10,300	160
165	47.5	293.1	12,100	53.6	299.9	9,700	165
170	45.2	288.3	11,500	51.4	296.1	9,200	170
175	42.7	283.1	11,000	49.2	291.9	8,700	175
180	40.2	277.4	10,400	47.0	287.4	8,200	180
185	37.5	271.2	9,900	44.6	282.6	7,700	185
190	34.6	264.4	9,500	42.2	277.3	7,300	190
195	31.6	256.7	9,000	39.6	271.5	6,800	195
200	28.2	248.0	8,600	36.9	265.2	6,400	200
205	24.4	237.9	8,200	34.0	258.1	6,000	205
210	19.9	225.6	7,800	30.8	250.2	5,700	210
215	14.1	209.2	7,400	27.4	241.3	5,300	215
220	2.3	174.5	7,000	23.4	230.7	5,000	220
225				18.7	217.7	4,600	225
230				12.5	199.8	4,300	230