

Liftcrane Jib Capacities

**Jib No. 134 with 12 ft 6 in. Strut on
Boom No. 74A
101,400 lb Crane Counterweight
0 lb Carbody Counterweight
360 Degree Rating**

MLC165-1 SERIES 1



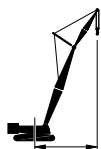
LIFTING CAPACITIES: Chart supplements Boom Capacity chart **No. 9428-A**. Lifting capacities for various boom lengths, jib lengths, and jib operating radii are for freely suspended loads and may be based on percent of static tipping or strength of structural components.

206.7 ft boom length requires only the middle three sheaves in lower boom point. All other sheaves must be removed from lower boom point.

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

OPERATING CONDITIONS: Machine to operate in a level position on a firm uniformly supporting surface. Refer to Boom Rigging **No. 81023602**, Jib Assembly **No. 81042734**, Wire Rope Specification chart **No. 9408-A**, and Wind Conditions chart **No. 9446-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 must be within boom angle range shown in capacity chart. Refer to Maximum Allowable Travel Specification chart **No. 9404-A**.



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



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



JIB POINT ELEVATION: Jib point elevation is vertical distance from ground level to centerline of 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, 101,400 lb crane counterweight, and 0 lb carbody counterweight.

Maximum capacity on 26 mm wire rope is 27,558 lb per line (20,000 lb per line when auxiliary drum is used).



101,400 lb Crane Counterweight
6 side boxes

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

Auxiliary Drum Deduct

Deduct 1,000 lb from capacities when boom butt is equipped with auxiliary drum, and 6,0 m (19.7 ft) insert is equipped with wire rope guide sheaves.

Lower Boom Point Sheave Deduct

Deduct 600 lb from capacities for boom lengths 147.6 ft thru 196.9 ft when lower boom point is equipped with outer sheave clusters.

Refer to **Tables 1 and 2** for raising ability with the maximum weight of all load blocks, hooks, weight balls, slings, and hoist lines beneath lower and/or upper boom point and jib point sheaves. For block weights shown with #, a, or b, load blocks, hooks, weight balls, and slings must remain on ground until combined weights are within rated capacity of chart. For block weights shown with (a), auxiliary drum mounted in boom butt, wire rope guide sheaves in 6,0 m (19.7 ft) insert, and boom lights must be removed. For block weights shown with (b), upper boom point must be removed. Raising is not permitted in shaded areas of table.

Caution: Combined weight beneath lower and/or upper boom point and jib point sheaves must not exceed block weight shown. Total weight beneath jib point must not exceed 4,000 lb.

Table 1

Raising Ability Over End or Side of Crawlers						
Boom Length (ft)	Fixed Jib No. 134					
	30.0 ft	40.0 ft	50.0 ft	60.0 ft	70.0 ft	80.0 ft
	Block Weight (lb)					
88.6 - 108.3	7,700	7,700	7,700	7,700	7,700	7,700
118.1	7,700	7,700	7,700	7,700	5,800	5,800
128.0	7,700	7,700	5,800	5,800	1,600	1,600
137.8	5,800	5,800	1,600	1,600	1,600	1,600
147.6	5,800	1,600	1,600	1,600	1,600	1,600
157.5	1,600	1,600	1,600	1,600	1,600	#
167.3	1,600	1,600	1,600	#	#	#
177.2	1,600	#	#	a	a	
187.0	#	a	a			
196.9 - 206.7	RAISING NOT PERMITTED					

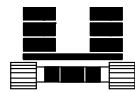
Table 2

Raising Ability Over Front of Blocked Crawlers						
Boom Length (ft)	Fixed Jib No. 134					
	30.0 ft	40.0 ft	50.0 ft	60.0 ft	70.0 ft	80.0 ft
	Block Weight (lb)					
88.6 - 108.3	7,700	7,700	7,700	7,700	7,700	7,700
118.1	7,700	7,700	7,700	7,700	5,800	5,800
128.0	7,700	7,700	5,800	5,800	1,600	1,600
137.8	5,800	5,800	1,600	1,600	1,600	1,600
147.6	5,800	1,600	1,600	1,600	1,600	1,600
157.5	1,600	1,600	1,600	1,600	1,600	#
167.3	1,600	1,600	1,600	#	#	#
177.2	1,600	#	#	#	#	#
187.0	#	#	#	#	#	#
196.9	#	#	#	a	a	
206.7	#	a				
	RAISING NOT PERMITTED					
Warning: Crane must remain in-line with crawlers when raising over end of blocked crawlers until operating radius and crane configuration is within 360 degree chart.						

Explanation of Symbols



Jib No. 134
+
Boom No. 74A



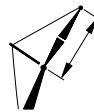
Crane Counterweight
+
Carbody Counterweight



360 Degree Rating



Boom Length



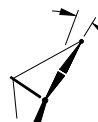
Jib Length



Boom Angle
(see page 1)



Operating Radius
(see page 1)



Jib Offset Angle



Jib Point Elevation
(see page 1)

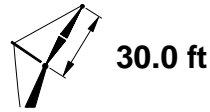
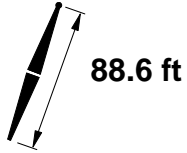


Lifting Capacities
(see page 1)

REFERENCE ONLY!

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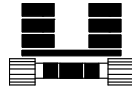
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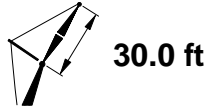
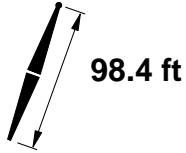
	5°			15°			25°			
	ft	°	ft	lb	ft	°	ft	lb	ft	
30	79.1		122.5	55,100						30
35	76.6		121.3	55,100	79.1		120.5	55,100		35
40	74.1		119.8	55,100	76.6		119.0	55,100	79.2	40
45	71.5		118.2	55,100	74.0		117.3	55,100	76.6	45
50	68.9		116.2	55,100	71.4		115.4	55,100	73.9	50
55	66.3		114.0	55,100	68.8		113.1	55,000	71.2	55
60	63.6		111.5	50,400	66.0		110.6	51,100	68.4	60
65	60.8		108.7	45,000	63.3		107.8	45,700	65.6	65
70	58.0		105.6	40,500	60.4		104.6	41,100	62.7	70
75	55.0		102.1	36,700	57.4		101.1	37,200	59.6	75
80	52.0		98.2	33,400	54.3		97.2	33,900	56.4	80
85	48.7		93.8	30,600	51.1		92.8	31,000	53.1	85
90	45.4		89.0	28,100	47.6		87.8	28,400	49.6	90
95	41.8		83.4	25,900	44.0		82.2	26,200	45.8	95
100	37.9		77.1	23,900	40.0		75.8	24,100		100
105	33.6		69.8	22,100	35.6		68.3	22,300		105
110	28.7		61.0	20,500						110
115	22.8		50.0	19,000						115

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101,400 lb
+
0 lb



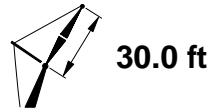
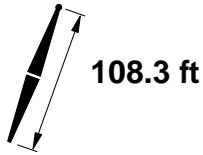
ft	5°			15°			25°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
35	77.6	131.4	55,100							35
40	75.3	130.1	55,100	77.7	129.3	55,100				40
45	73.0	128.6	55,100	75.3	127.7	55,100	77.7	125.9	44,900	45
50	70.6	126.8	55,100	72.9	125.9	55,100	75.3	124.0	42,700	50
55	68.2	124.8	55,100	70.5	123.9	55,100	72.8	122.0	40,800	55
60	65.8	122.5	50,000	68.1	121.6	50,800	70.3	119.7	39,100	60
65	63.3	120.0	44,600	65.5	119.1	45,300	67.7	117.1	37,500	65
70	60.7	117.2	40,100	63.0	116.3	40,800	65.1	114.2	36,100	70
75	58.1	114.1	36,300	60.3	113.1	36,900	62.4	111.0	34,800	75
80	55.4	110.6	33,000	57.6	109.6	33,500	59.6	107.4	33,700	80
85	52.6	106.8	30,200	54.7	105.8	30,600	56.7	103.5	31,000	85
90	49.6	102.6	27,700	51.8	101.5	28,100	53.7	99.1	28,400	90
95	46.6	97.9	25,500	48.7	96.8	25,800	50.5	94.2	26,100	95
100	43.3	92.7	23,500	45.4	91.4	23,800	47.1	88.8	24,100	100
105	39.9	86.8	21,700	41.9	85.5	22,000	43.5	82.6	22,200	105
110	36.2	80.1	20,100	38.1	78.6	20,300				110
115	32.0	72.3	18,600	33.9	70.7	18,800				115
120	27.3	63.0	17,300							120
125	21.7	51.4	16,000							125

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101,400 lb
+
0 lb



	5°			15°			25°			
	ft	°	ft	lb	ft	°	ft	lb	ft	
35	78.5		141.5	55,100						35
40	76.4		140.3	55,100	78.6		139.5	55,100		40
45	74.2		138.9	55,100	76.4		138.0	55,100	78.6	45
50	72.1		137.3	55,100	74.2		136.4	55,100	76.4	50
55	69.9		135.4	55,100	72.0		134.5	55,100	74.1	55
60	67.6		133.3	49,800	69.7		132.4	50,600	71.8	60
65	65.3		131.0	44,400	67.4		130.1	45,100	69.5	65
70	63.0		128.5	39,900	65.1		127.6	40,600	67.1	70
75	60.6		125.7	36,100	62.7		124.7	36,700	64.7	75
80	58.2		122.6	32,800	60.2		121.6	33,400	62.2	80
85	55.7		119.2	30,000	57.7		118.1	30,500	59.6	85
90	53.1		115.4	27,500	55.1		114.4	27,900	56.9	90
95	50.4		111.3	25,300	52.4		110.2	25,700	54.1	95
100	47.6		106.8	23,300	49.6		105.6	23,600	51.2	100
105	44.7		101.7	21,500	46.6		100.5	21,800	48.2	105
110	41.6		96.2	19,900	43.4		94.9	20,200	44.9	110
115	38.2		89.9	18,500	40.1		88.6	18,700		115
120	34.6		82.8	17,100	36.4		81.3	17,300		120
125	30.7		74.7	15,900	32.3		73.0	16,100		125
130	26.1		64.9	14,800						130

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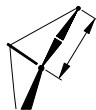
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101,400 lb
+
0 lb



118.1 ft

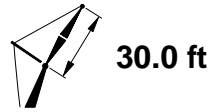
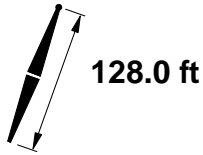


30.0 ft

ft	5°			15°			25°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
35	79.3	151.6	55,100							35
40	77.3	150.5	55,100	79.4	149.6	55,100				40
45	75.3	149.1	55,100	77.4	148.3	55,100	79.4	146.4	46,600	45
50	73.3	147.6	55,100	75.3	146.8	55,100	77.4	144.8	44,600	50
55	71.3	145.9	55,100	73.3	145.0	55,100	75.3	143.1	42,700	55
60	69.2	144.0	49,400	71.2	143.1	50,300	73.2	141.1	41,000	60
65	67.1	141.9	44,000	69.1	141.0	44,800	71.0	139.0	39,500	65
70	64.9	139.6	39,500	66.9	138.6	40,200	68.8	136.6	38,100	70
75	62.8	137.0	35,700	64.7	136.0	36,400	66.6	133.9	36,900	75
80	60.5	134.1	32,400	62.5	133.2	33,000	64.3	131.0	33,600	80
85	58.3	131.1	29,600	60.2	130.1	30,100	62.0	127.9	30,600	85
90	55.9	127.7	27,100	57.8	126.7	27,600	59.6	124.4	28,000	90
95	53.5	124.0	24,900	55.4	122.9	25,300	57.1	120.6	25,700	95
100	51.0	120.0	22,900	52.9	118.9	23,300	54.5	116.4	23,600	100
105	48.5	115.6	21,100	50.3	114.4	21,500	51.9	111.9	21,800	105
110	45.8	110.7	19,500	47.6	109.5	19,800	49.1	106.9	20,100	110
115	43.0	105.4	18,100	44.7	104.1	18,400	46.2	101.4	18,600	115
120	40.0	99.5	16,800	41.7	98.2	17,000	43.0	95.2	17,200	120
125	36.8	92.9	15,500	38.4	91.5	15,700				125
130	33.3	85.5	14,400	34.9	83.9	14,600				130
135	29.4	76.9	13,400							135
140	25.1	66.7	12,400							140

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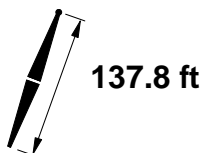
	5°			15°			25°			
	ft	°	ft	lb	ft	°	ft	lb	ft	
40	78.1		160.6	55,100						40
45	76.3		159.4	55,100	78.2		158.5	55,100		45
50	74.4		157.9	55,100	76.3		157.1	55,100	78.2	50
55	72.5		156.4	55,100	74.4		155.5	55,100	76.2	55
60	70.5		154.6	49,100	72.4		153.7	50,000	74.3	60
65	68.6		152.6	43,700	70.5		151.7	44,500	72.3	65
70	66.6		150.4	39,200	68.5		149.5	40,000	70.3	70
75	64.6		148.1	35,400	66.4		147.1	36,100	68.2	75
80	62.6		145.5	32,100	64.4		144.5	32,700	66.1	80
85	60.5		142.6	29,300	62.3		141.6	29,800	64.0	85
90	58.3		139.5	26,800	60.1		138.5	27,300	61.8	90
95	56.2		136.2	24,600	57.9		135.2	25,000	59.6	95
100	53.9		132.6	22,600	55.7		131.5	23,000	57.3	100
105	51.6		128.6	20,800	53.3		127.5	21,200	54.9	105
110	49.2		124.3	19,200	50.9		123.2	19,600	52.4	110
115	46.7		119.6	17,800	48.4		118.4	18,100	49.9	115
120	44.1		114.5	16,500	45.8		113.3	16,700	47.2	120
125	41.4		108.9	15,300	43.0		107.6	15,500	44.3	125
130	38.5		102.7	14,100	40.1		101.3	14,300		130
135	35.4		95.8	13,100	37.0		94.3	13,300		135
140	32.1		88.0	12,200	33.5		86.3	12,300		140
145	28.3		79.0	11,300						145
150	24.1		68.4	10,400						150

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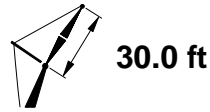
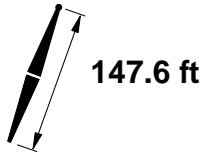
101,400 lb
+
0 lb



	5°			15°			25°			
	ft	°	ft	lb	ft	°	ft	lb	ft	
40	78.8		170.7	55,100						40
45	77.1		169.5	55,100	78.9	168.6	55,100			45
50	75.3		168.2	55,100	77.1	167.3	55,100	78.9	165.3	46,100
55	73.5		166.7	55,100	75.3	165.8	55,100	77.1	163.8	44,300
60	71.7		165.0	48,700	73.5	164.1	49,700	75.3	162.1	42,700
65	69.9		163.2	43,300	71.7	162.3	44,200	73.4	160.3	41,200
70	68.1		161.2	38,800	69.8	160.2	39,600	71.5	158.2	39,900
75	66.2		159.0	35,000	67.9	158.0	35,700	69.6	155.9	36,400
80	64.3		156.6	31,700	66.0	155.6	32,400	67.7	153.5	33,000
85	62.4		153.9	28,900	64.1	153.0	29,500	65.7	150.8	30,000
90	60.4		151.1	26,400	62.1	150.1	26,900	63.7	147.9	27,400
95	58.4		148.0	24,200	60.1	147.0	24,700	61.7	144.7	25,100
100	56.4		144.7	22,200	58.0	143.6	22,600	59.6	141.3	23,100
105	54.3		141.1	20,400	55.9	140.0	20,800	57.4	137.7	21,200
110	52.1		137.2	18,800	53.7	136.1	19,200	55.2	133.7	19,500
115	49.9		133.0	17,400	51.5	131.9	17,700	52.9	129.4	18,000
120	47.6		128.5	16,100	49.2	127.3	16,400	50.5	124.7	16,600
125	45.2		123.5	14,900	46.7	122.3	15,100	48.0	119.6	15,400
130	42.6		118.2	13,700	44.2	116.9	14,000	45.4	114.0	14,200
135	40.0		112.3	12,700	41.5	110.9	12,900			
140	37.2		105.8	11,800	38.7	104.3	12,000			
145	34.2		98.6	10,900	35.6	97.0	11,000			
150	30.9		90.4	10,000	32.3	88.7	10,200			
155	27.3		81.1	9,300						
160	23.2		70.0	8,500						

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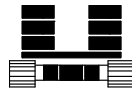
ASME B30.5



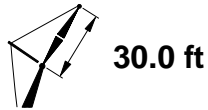
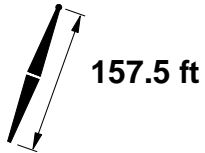
	5°			15°			25°			
	ft	°	ft	lb	ft	°	ft	lb	ft	
40	79.5		180.7	55,100						40
45	77.8		179.6	55,100	79.5		178.7	55,100		45
50	76.2		178.4	55,100	77.9		177.5	55,100	79.6	50
55	74.5		177.0	55,100	76.2		176.1	55,100	77.9	55
60	72.8		175.4	48,900	74.5		174.5	49,900	76.1	60
65	71.1		173.7	43,500	72.8		172.8	44,400	74.4	65
70	69.4		171.8	39,000	71.0		170.9	39,800	72.6	70
75	67.6		169.7	35,200	69.3		168.8	35,900	70.9	75
80	65.8		167.5	31,900	67.5		166.5	32,600	69.1	80
85	64.0		165.1	29,100	65.7		164.1	29,600	67.2	85
90	62.2		162.4	26,600	63.8		161.4	27,100	65.4	90
95	60.4		159.6	24,300	62.0		158.6	24,800	63.5	95
100	58.5		156.5	22,400	60.1		155.5	22,800	61.5	100
105	56.5		153.2	20,600	58.1		152.1	21,000	59.6	105
110	54.6		149.7	19,000	56.1		148.6	19,400	57.5	110
115	52.5		145.8	17,600	54.1		144.7	17,900	55.5	115
120	50.4		141.7	16,300	52.0		140.6	16,600	53.3	120
125	48.3		137.3	15,100	49.8		136.1	15,300	51.1	125
130	46.1		132.5	13,900	47.5		131.2	14,200	48.8	130
135	43.7		127.3	12,900	45.2		126.0	13,200	46.4	135
140	41.3		121.7	12,000	42.7		120.3	12,200	43.9	140
145	38.7		115.5	11,100	40.1		114.1	11,300		145
150	36.0		108.7	10,300	37.4		107.2	10,400		150
155	33.1		101.2	9,500	34.4		99.5	9,600		155
160	29.9		92.7	8,800						160
165	26.4		83.0	8,100						165
170	22.3		71.5	7,500						170

MLC165-1 S-1

ASME B30.5



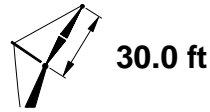
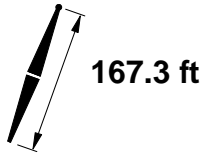
101,400 lb
+
0 lb



ft	5°			15°			25°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45	78.5	189.7	55,100							45
50	76.9	188.5	55,100	78.5	187.6	55,100				50
55	75.3	187.2	55,100	76.9	186.3	55,100	78.5	184.3	45,700	55
60	73.7	185.8	48,600	75.3	184.8	49,600	76.9	182.8	44,100	60
65	72.1	184.1	43,200	73.7	183.2	44,100	75.3	181.2	42,700	65
70	70.5	182.4	38,600	72.1	181.4	39,500	73.6	179.4	40,300	70
75	68.9	180.4	34,800	70.4	179.5	35,600	72.0	177.4	36,300	75
80	67.2	178.3	31,500	68.8	177.3	32,200	70.3	175.2	32,900	80
85	65.5	176.0	28,700	67.1	175.0	29,300	68.6	172.9	29,900	85
90	63.8	173.6	26,200	65.3	172.6	26,700	66.8	170.4	27,300	90
95	62.1	170.9	24,000	63.6	169.9	24,500	65.1	167.7	25,000	95
100	60.3	168.1	22,000	61.8	167.0	22,500	63.3	164.8	22,900	100
105	58.5	165.0	20,200	60.0	163.9	20,700	61.4	161.7	21,100	105
110	56.7	161.7	18,600	58.2	160.6	19,000	59.6	158.3	19,400	110
115	54.8	158.2	17,200	56.3	157.1	17,600	57.6	154.7	17,900	115
120	52.9	154.4	15,900	54.4	153.3	16,200	55.7	150.8	16,500	120
125	51.0	150.4	14,700	52.4	149.2	15,000	53.7	146.7	15,300	125
130	48.9	146.0	13,600	50.4	144.8	13,800	51.6	142.2	14,100	130
135	46.8	141.4	12,500	48.2	140.1	12,800	49.4	137.4	13,000	135
140	44.7	136.3	11,600	46.1	135.1	11,800	47.2	132.2	12,000	140
145	42.4	130.9	10,700	43.8	129.6	10,900	44.9	126.6	11,100	145
150	40.0	125.0	9,900	41.4	123.6	10,100				150
155	37.6	118.6	9,100	38.9	117.1	9,300				155
160	34.9	111.5	8,400	36.2	110.0	8,600				160
165	32.1	103.7	7,700	33.3	102.0	7,900				165
170	29.0	94.9	7,100							170
175	25.5	84.9	6,500							175
180	21.6	72.9	5,900							180

MLC165-1 S-1

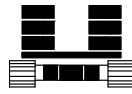
ASME B30.5



	5°			15°			25°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45	79.1	199.8	55,100							45
50	77.6	198.7	55,100	79.1	197.8	55,100				50
55	76.1	197.4	54,800	77.6	196.5	55,100	79.1	194.5	46,300	55
60	74.6	196.0	48,200	76.1	195.1	49,300	77.6	193.1	44,800	60
65	73.0	194.5	42,800	74.6	193.6	43,800	76.1	191.5	43,400	65
70	71.5	192.8	38,300	73.0	191.9	39,200	74.5	189.8	40,000	70
75	70.0	191.0	34,500	71.5	190.0	35,300	72.9	187.9	36,100	75
80	68.4	189.0	31,200	69.9	188.0	31,900	71.3	185.9	32,600	80
85	66.8	186.9	28,300	68.3	185.9	29,000	69.7	183.7	29,600	85
90	65.2	184.5	25,800	66.7	183.6	26,400	68.1	181.4	27,000	90
95	63.6	182.1	23,600	65.1	181.0	24,200	66.4	178.9	24,700	95
100	62.0	179.4	21,700	63.4	178.4	22,200	64.8	176.1	22,700	100
105	60.3	176.5	19,900	61.7	175.5	20,400	63.1	173.2	20,800	105
110	58.6	173.5	18,300	60.0	172.4	18,700	61.3	170.1	19,100	110
115	56.8	170.2	16,800	58.3	169.1	17,300	59.6	166.8	17,600	115
120	55.1	166.7	15,500	56.5	165.6	15,900	57.7	163.2	16,200	120
125	53.3	163.0	14,300	54.7	161.9	14,700	55.9	159.4	15,000	125
130	51.4	159.0	13,200	52.8	157.9	13,500	54.0	155.3	13,800	130
135	49.5	154.8	12,200	50.9	153.6	12,500	52.0	151.0	12,700	135
140	47.5	150.2	11,300	48.9	149.0	11,500	50.0	146.3	11,800	140
145	45.5	145.3	10,400	46.8	144.0	10,600	47.9	141.2	10,800	145
150	43.4	140.1	9,600	44.7	138.7	9,800	45.8	135.8	10,000	150
155	41.2	134.4	8,800	42.5	133.0	9,000	43.5	130.0	9,200	155
160	38.9	128.3	8,100	40.2	126.8	8,300				160
165	36.5	121.6	7,400	37.7	120.1	7,600				165
170	33.9	114.3	6,800	35.1	112.6	6,900				170
175	31.1	106.2	6,200	32.3	104.4	6,300				175
180	28.1	97.1	5,600							180
185	24.8	86.6	5,100							185
190	20.9	74.2	4,600							190

MLC165-1 S-1

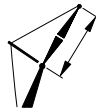
ASME B30.5



101,400 lb
+
0 lb



177.2 ft



30.0 ft

	5°			15°			25°			
	ft	°	ft	lb	ft	°	ft	lb	ft	
45	79.6		209.8			55,100				45
50	78.2		208.8		79.6	207.9	55,100			50
55	76.7		207.6		78.2	206.7	55,100	79.7	204.6	46,900
60	75.3		206.3		76.8	205.3	49,000	78.2	203.3	45,400
65	73.9		204.8		75.3	203.9	43,500	76.7	201.8	44,000
70	72.4		203.2		73.9	202.3	38,900	75.3	200.2	39,800
75	71.0		201.5		72.4	200.5	34,900	73.8	198.4	35,800
80	69.5		199.6		70.9	198.6	31,600	72.3	196.5	32,300
85	68.0		197.6		69.4	196.6	28,700	70.8	194.5	29,300
90	66.5		195.4		67.9	194.4	26,100	69.2	192.3	26,700
95	65.0		193.1		66.3	192.1	23,800	67.7	189.9	24,400
100	63.4		190.5		64.8	189.5	21,800	66.1	187.3	22,300
105	61.8		187.9		63.2	186.8	20,000	64.5	184.6	20,500
110	60.2		185.0		61.6	184.0	18,400	62.9	181.7	18,800
115	58.6		182.0		60.0	180.9	16,900	61.2	178.6	17,300
120	57.0		178.7		58.3	177.6	15,500	59.5	175.3	15,900
125	55.3		175.2		56.6	174.1	14,300	57.8	171.7	14,600
130	53.6		171.6		54.9	170.4	13,200	56.1	168.0	13,500
135	51.8		167.6		53.1	166.5	12,100	54.3	163.9	12,400
140	50.0		163.5		51.3	162.3	11,200	52.4	159.7	11,400
145	48.2		159.0		49.4	157.8	10,300	50.5	155.1	10,500
150	46.2		154.2		47.5	153.0	9,400	48.6	150.2	9,600
155	44.3		149.1		45.5	147.8	8,600	46.5	144.9	8,800
160	42.2		143.7		43.4	142.3	7,900	44.4	139.3	8,100
165	40.1		137.8		41.3	136.3	7,200			
170	37.8		131.4		39.0	129.9	6,600			
175	35.5		124.5		36.6	122.9	6,000			
180	33.0		116.9		34.1	115.2	5,400			
185	30.3		108.5		31.3	106.7	4,800			
190	27.3		99.1							

MLC165-1 S-1

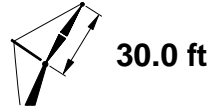
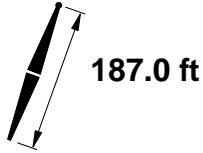
ASME B30.5



101,400 lb
+
0 lb



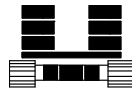
360°



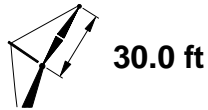
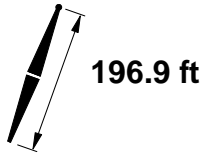
	5°			15°			25°			
	ft	°	ft	lb	ft	°	ft	lb	ft	
50	78.7		218.8	55,100						50
55	77.4		217.7	54,200	78.8	216.8	54,700			55
60	76.0		216.5	47,600	77.4	215.5	48,800	78.8	213.5	45,900
65	74.6		215.1	42,200	76.0	214.1	43,200	77.4	212.1	44,300
70	73.2		213.6	37,700	74.6	212.6	38,600	76.0	210.5	39,600
75	71.9		211.9	33,900	73.2	211.0	34,700	74.6	208.9	35,600
80	70.5		210.1	30,600	71.8	209.2	31,300	73.1	207.1	32,100
85	69.0		208.2	27,700	70.4	207.2	28,400	71.7	205.1	29,100
90	67.6		206.1	25,200	69.0	205.2	25,800	70.3	203.0	26,500
95	66.2		203.9	23,000	67.5	202.9	23,600	68.8	200.8	24,200
100	64.7		201.6	21,000	66.0	200.6	21,600	67.3	198.4	22,100
105	63.2		199.0	19,200	64.5	198.0	19,700	65.8	195.8	20,200
110	61.7		196.3	17,600	63.0	195.3	18,100	64.3	193.0	18,600
115	60.2		193.5	16,200	61.5	192.4	16,600	62.7	190.1	17,100
120	58.7		190.4	14,900	60.0	189.4	15,300	61.1	187.0	15,700
125	57.1		187.2	13,700	58.4	186.1	14,100	59.5	183.7	14,400
130	55.5		183.8	12,600	56.8	182.7	12,900	57.9	180.2	13,200
135	53.8		180.1	11,500	55.1	179.0	11,900	56.2	176.5	12,200
140	52.2		176.2	10,600	53.4	175.1	10,900	54.5	172.5	11,200
145	50.5		172.1	9,700	51.7	170.9	10,000	52.8	168.3	10,300
150	48.7		167.8	8,900	49.9	166.5	9,200	51.0	163.9	9,400
155	46.9		163.1	8,100	48.1	161.8	8,400	49.1	159.1	8,600
160	45.0		158.1	7,400	46.2	156.8	7,700	47.2	154.0	7,800
165	43.1		152.8	6,800	44.3	151.5	7,000	45.2	148.5	7,100
170	41.1		147.1	6,100	42.3	145.7	6,300	43.2	142.7	6,500
175	39.0		141.0	5,600	40.2	139.6	5,700			
180	36.9		134.4	4,900	38.0	132.9	5,100			
185	34.5		127.3	4,300	35.6	125.6	4,500			

MLC165-1 S-1

ASME B30.5



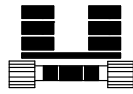
101,400 lb
+
0 lb



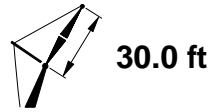
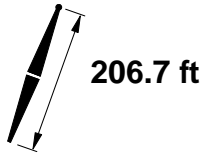
ft	5°			15°			25°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50	79.2	228.9	55,100							50
55	77.9	227.8	53,900	79.3	226.9	54,100				55
60	76.6	226.6	47,300	77.9	225.7	48,500	79.3	223.6	46,500	60
65	75.3	225.3	41,900	76.6	224.4	42,900	78.0	222.3	44,000	65
70	74.0	223.9	37,300	75.3	222.9	38,300	76.6	220.8	39,300	70
75	72.7	222.3	33,500	74.0	221.3	34,400	75.3	219.2	35,300	75
80	71.3	220.6	30,200	72.6	219.6	31,000	73.9	217.5	31,800	80
85	70.0	218.8	27,300	71.3	217.8	28,100	72.6	215.7	28,800	85
90	68.6	216.8	24,800	69.9	215.8	25,500	71.2	213.7	26,200	90
95	67.3	214.7	22,600	68.6	213.7	23,200	69.8	211.5	23,900	95
100	65.9	212.5	20,600	67.2	211.5	21,200	68.4	209.3	21,800	100
105	64.5	210.1	18,800	65.8	209.1	19,400	67.0	206.8	19,900	105
110	63.1	207.5	17,200	64.3	206.5	17,800	65.5	204.2	18,200	110
115	61.6	204.8	15,800	62.9	203.8	16,300	64.1	201.5	16,700	115
120	60.2	202.0	14,500	61.4	200.9	14,900	62.6	198.6	15,300	120
125	58.7	198.9	13,300	59.9	197.8	13,700	61.1	195.5	14,100	125
130	57.2	195.7	12,200	58.4	194.6	12,500	59.5	192.2	12,900	130
135	55.7	192.3	11,100	56.9	191.2	11,500	58.0	188.7	11,800	135
140	54.1	188.7	10,200	55.3	187.5	10,500	56.4	185.0	10,800	140
145	52.5	184.8	9,300	53.7	183.7	9,600	54.8	181.1	9,900	145
150	50.9	180.8	8,500	52.1	179.6	8,800	53.1	177.0	9,100	150
155	49.2	176.5	7,700	50.4	175.3	8,000	51.4	172.6	8,300	155
160	47.5	171.9	7,000	48.7	170.7	7,300	49.7	167.9	7,500	160
165	45.8	167.1	6,400	46.9	165.8	6,600	47.8	162.9	6,800	165
170	43.9	161.9	5,700	45.1	160.6	6,000	46.0	157.6	6,100	170
175	42.1	156.4	5,000	43.2	155.0	5,300	44.0	152.0	5,500	175
180	40.1	150.5	4,400	41.2	149.1	4,600				180

MLC165-1 S-1

ASME B30.5



101,400 lb
+
0 lb



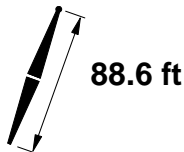
	5°			15°			25°			
	ft	°	ft	lb	ft	°	ft	lb	ft	
50	79.7		238.9	55,100						50
55	78.4		237.9	53,600						55
60	77.2		236.8	47,000	78.5	235.8				60
65	75.9		235.5	41,500	77.2	234.6				65
70	74.7		234.1	37,000	75.9	233.2				70
75	73.4		232.6	33,200	74.7	231.7				75
80	72.1		231.0	29,900	73.4	230.0				80
85	70.9		229.3	27,000	72.1	228.3				85
90	69.6		227.4	24,500	70.8	226.4				90
95	68.3		225.4	22,200	69.5	224.4				95
100	67.0		223.3	20,300	68.2	222.3				100
105	65.6		221.0	18,500	66.8	220.0				105
110	64.3		218.6	16,900	65.5	217.6				110
115	62.9		216.0	15,400	64.1	215.0				115
120	61.5		213.3	14,100	62.7	212.3				120
125	60.1		210.4	12,900	61.3	209.4				125
130	58.7		207.4	11,800	59.9	206.3				130
135	57.3		204.2	10,800	58.5	203.1				135
140	55.8		200.8	9,900	57.0	199.7				140
145	54.3		197.2	9,000	55.5	196.1				145
150	52.8		193.4	8,200	54.0	192.3				150
155	51.3		189.4	7,400	52.4	188.2				155
160	49.7		185.2	6,700	50.8	184.0				160
165	48.1		180.7	6,000	49.2	179.5				165
170	46.4		176.0	5,200	47.5	174.7				170
175	44.7		170.9	4,500	45.8	169.6				175
180					44.0	164.2				180

MLC165-1 S-1

ASME B30.5



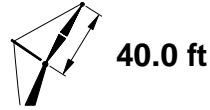
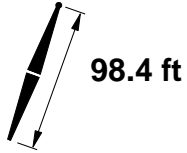
101,400 lb
+
0 lb



ft	5°			15°			25°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
35	78.4	131.5	52,700							35
40	76.1	130.2	51,300	79.2	129.1	47,700				40
45	73.8	128.6	50,000	76.9	127.5	46,800				45
50	71.4	126.9	48,700	74.5	125.8	46,000	77.6	123.4	35,400	50
55	69.0	124.9	47,600	72.1	123.7	45,200	75.1	121.3	33,700	55
60	66.6	122.6	46,600	69.6	121.5	44,500	72.6	119.0	32,100	60
65	64.1	120.1	45,600	67.1	118.9	43,700	70.0	116.4	30,800	65
70	61.5	117.3	41,100	64.5	116.1	41,200	67.4	113.5	29,600	70
75	58.9	114.2	37,300	61.8	112.9	37,900	64.7	110.2	28,500	75
80	56.2	110.7	34,000	59.1	109.4	34,600	61.9	106.7	27,500	80
85	53.4	106.9	31,100	56.2	105.6	31,700	58.9	102.7	26,600	85
90	50.5	102.7	28,600	53.3	101.3	29,100	55.9	98.3	25,700	90
95	47.4	98.0	26,400	50.2	96.5	26,800	52.7	93.4	25,000	95
100	44.2	92.8	24,400	46.9	91.2	24,800	49.3	87.8	24,400	100
105	40.7	86.9	22,600	43.4	85.2	22,900	45.6	81.5	23,200	105
110	37.0	80.2	21,000	39.6	78.3	21,300				110
115	32.9	72.5	19,500	35.3	70.4	19,700				115
120	28.2	63.2	18,200							120
125	22.6	51.6	16,900							125

MLC165-1 S-1

ASME B30.5



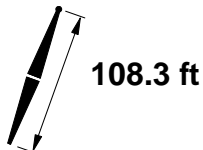
	5°			15°			25°				
	ft	°	ft	lb	ft	°	ft	lb	ft		
35	79.3		141.6	52,900						35	
40	77.1		140.4	51,600						40	
45	75.0		139.0	50,400	77.9	137.8	47,100			45	
50	72.8		137.3	49,200	75.7	136.2	46,300	78.6	133.8	36,100	50
55	70.6		135.5	48,100	73.4	134.3	45,600	76.3	131.9	34,400	55
60	68.3		133.4	47,200	71.2	132.2	44,900	74.0	129.7	32,900	60
65	66.1		131.1	45,200	68.9	129.9	44,300	71.6	127.4	31,600	65
70	63.7		128.6	40,700	66.5	127.3	41,500	69.2	124.7	30,400	70
75	61.4		125.8	36,900	64.1	124.5	37,600	66.8	121.8	29,300	75
80	58.9		122.7	33,600	61.6	121.4	34,200	64.3	118.6	28,300	80
85	56.4		119.3	30,700	59.1	117.9	31,300	61.7	115.1	27,400	85
90	53.8		115.5	28,200	56.5	114.1	28,700	59.0	111.2	26,600	90
95	51.1		111.4	26,000	53.8	110.0	26,500	56.2	106.9	25,800	95
100	48.4		106.9	24,000	50.9	105.4	24,400	53.3	102.2	24,800	100
105	45.4		101.9	22,200	48.0	100.3	22,600	50.2	96.9	22,900	105
110	42.3		96.3	20,600	44.8	94.6	20,900	46.9	91.0	21,200	110
115	39.0		90.1	19,100	41.4	88.2	19,400				115
120	35.4		83.0	17,800	37.7	81.0	18,000				120
125	31.5		74.8	16,600	33.7	72.6	16,800				125
130	26.9		65.1	15,400							130

MLC165-1 S-1

ASME B30.5



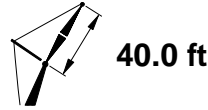
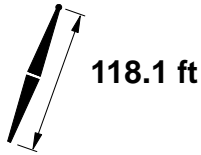
101,400 lb
+
0 lb



	5°			15°			25°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
40	78.0	150.5	51,800							40
45	76.0	149.2	50,700	78.7	148.1	47,200				45
50	74.0	147.7	49,600	76.7	146.5	46,500	79.4	144.1	36,700	50
55	71.9	146.0	48,600	74.6	144.8	45,800	77.3	142.3	35,100	55
60	69.9	144.1	47,600	72.5	142.9	45,200	75.2	140.4	33,700	60
65	67.8	142.0	45,000	70.4	140.8	44,700	73.0	138.2	32,400	65
70	65.6	139.6	40,500	68.2	138.4	41,300	70.8	135.8	31,200	70
75	63.5	137.1	36,600	66.0	135.8	37,400	68.6	133.1	30,100	75
80	61.2	134.2	33,300	63.8	132.9	34,000	66.3	130.2	29,100	80
85	59.0	131.1	30,500	61.5	129.8	31,100	63.9	127.0	28,200	85
90	56.6	127.8	28,000	59.1	126.4	28,500	61.5	123.5	27,300	90
95	54.2	124.1	25,800	56.7	122.7	26,300	59.0	119.7	26,600	95
100	51.7	120.1	23,800	54.2	118.6	24,200	56.4	115.5	24,700	100
105	49.2	115.7	22,000	51.6	114.1	22,400	53.7	110.9	22,800	105
110	46.5	110.8	20,400	48.8	109.2	20,800	50.9	105.9	21,100	110
115	43.7	105.5	18,900	46.0	103.8	19,300	48.0	100.3	19,600	115
120	40.7	99.6	17,600	42.9	97.8	17,900	44.8	94.0	18,100	120
125	37.5	93.1	16,400	39.7	91.1	16,600				125
130	34.0	85.6	15,200	36.1	83.5	15,500				130
135	30.2	77.1	14,200							135
140	25.8	66.9	13,200							140

MLC165-1 S-1

ASME B30.5



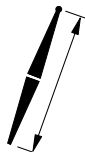
	5°			15°			25°				
	ft	°	ft	lb	ft	°	ft	lb	ft		
40	78.8		160.7	51,900						40	
45	76.9		159.4	50,800	79.4	158.2	47,300			45	
50	75.0		158.0	49,800	77.5	156.8	46,600			50	
55	73.1		156.4	48,800	75.6	155.2	46,000	78.1	152.7	35,700	55
60	71.2		154.6	48,000	73.7	153.4	45,400	76.2	150.9	34,300	60
65	69.2		152.7	44,600	71.7	151.4	44,800	74.2	148.8	33,000	65
70	67.3		150.5	40,100	69.7	149.3	41,000	72.1	146.6	31,900	70
75	65.3		148.1	36,200	67.7	146.9	37,100	70.1	144.2	30,800	75
80	63.2		145.5	33,000	65.6	144.2	33,700	68.0	141.5	29,800	80
85	61.1		142.7	30,100	63.5	141.4	30,800	65.8	138.6	28,900	85
90	59.0		139.6	27,600	61.4	138.3	28,200	63.6	135.4	28,100	90
95	56.8		136.3	25,300	59.2	134.9	25,900	61.4	131.9	26,500	95
100	54.6		132.6	23,400	56.9	131.2	23,900	59.0	128.2	24,400	100
105	52.3		128.7	21,600	54.6	127.2	22,100	56.6	124.1	22,500	105
110	49.9		124.4	20,000	52.1	122.9	20,400	54.2	119.6	20,800	110
115	47.4		119.7	18,500	49.6	118.1	18,900	51.6	114.7	19,300	115
120	44.8		114.6	17,200	47.0	113.0	17,500	48.8	109.4	17,800	120
125	42.1		109.0	16,000	44.2	107.3	16,300	46.0	103.5	16,500	125
130	39.2		102.8	14,900	41.3	100.9	15,100				130
135	36.1		95.9	13,800	38.1	93.9	14,100				135
140	32.7		88.1	12,900	34.7	85.9	13,100				140
145	29.0		79.2	12,000							145
150	24.8		68.6	11,100							150

MLC165-1 S-1

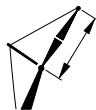
ASME B30.5



101,400 lb
+
0 lb



128.0 ft



40.0 ft

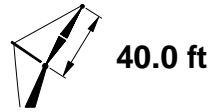
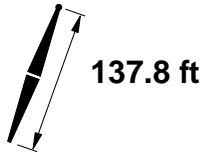
	5°			15°			25°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
40	79.4	170.7	51,900							40
45	77.7	169.6	50,900							45
50	75.9	168.3	50,000	78.3	167.1	46,600				50
55	74.1	166.8	49,100	76.5	165.6	46,100	78.9	163.0	36,300	55
60	72.3	165.1	48,200	74.7	163.9	45,500	77.0	161.3	34,900	60
65	70.5	163.3	44,300	72.8	162.0	45,100	75.2	159.4	33,700	65
70	68.7	161.3	39,800	71.0	160.0	40,700	73.3	157.3	32,500	70
75	66.8	159.0	35,900	69.1	157.8	36,800	71.4	155.1	31,500	75
80	64.9	156.6	32,600	67.2	155.3	33,400	69.4	152.6	30,500	80
85	63.0	154.0	29,800	65.3	152.7	30,500	67.4	149.9	29,600	85
90	61.0	151.2	27,200	63.3	149.8	27,900	65.4	147.0	28,600	90
95	59.0	148.1	25,000	61.2	146.7	25,600	63.4	143.8	26,200	95
100	57.0	144.8	23,000	59.2	143.4	23,600	61.2	140.4	24,100	100
105	54.9	141.2	21,300	57.1	139.7	21,800	59.1	136.7	22,300	105
110	52.7	137.3	19,700	54.9	135.8	20,100	56.8	132.6	20,600	110
115	50.5	133.1	18,200	52.6	131.6	18,600	54.5	128.3	19,000	115
120	48.2	128.6	16,900	50.3	127.0	17,300	52.1	123.6	17,600	120
125	45.8	123.6	15,700	47.8	122.0	16,000	49.6	118.4	16,300	125
130	43.3	118.3	14,500	45.3	116.5	14,900	47.0	112.8	15,100	130
135	40.6	112.4	13,500	42.6	110.5	13,800	44.2	106.6	14,000	135
140	37.8	105.9	12,600	39.8	103.9	12,800				140
145	34.8	98.7	11,700	36.7	96.5	11,900				145
150	31.6	90.6	10,800	33.4	88.2	11,000				150
155	28.0	81.2	10,000							155
160	23.8	70.1	9,300							160

MLC165-1 S-1

ASME B30.5



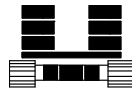
101,400 lb
+
0 lb



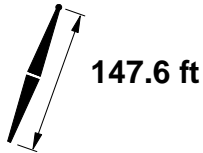
	5°			15°			25°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45	78.4	179.7	50,900							45
50	76.7	178.5	50,000	79.0	177.2	46,600				50
55	75.0	177.1	49,100	77.3	175.8	46,100	79.5	173.2	36,800	55
60	73.4	175.5	48,300	75.6	174.3	45,600	77.8	171.6	35,500	60
65	71.7	173.8	43,900	73.9	172.5	45,100	76.1	169.9	34,300	65
70	69.9	171.9	39,400	72.1	170.6	40,400	74.3	167.9	33,100	70
75	68.2	169.8	35,500	70.4	168.5	36,500	72.5	165.8	32,100	75
80	66.4	167.6	32,200	68.6	166.3	33,100	70.7	163.5	31,100	80
85	64.6	165.1	29,400	66.8	163.8	30,100	68.9	161.0	30,200	85
90	62.8	162.5	26,800	64.9	161.1	27,600	67.0	158.3	28,300	90
95	60.9	159.7	24,600	63.1	158.3	25,300	65.1	155.4	25,900	95
100	59.0	156.6	22,600	61.1	155.2	23,200	63.1	152.2	23,800	100
105	57.1	153.3	20,900	59.2	151.9	21,400	61.1	148.8	21,900	105
110	55.1	149.7	19,300	57.2	148.3	19,800	59.1	145.2	20,200	110
115	53.1	145.9	17,800	55.1	144.4	18,300	57.0	141.2	18,700	115
120	51.0	141.8	16,500	53.0	140.2	16,900	54.8	136.9	17,300	120
125	48.9	137.4	15,300	50.8	135.8	15,600	52.6	132.3	16,000	125
130	46.6	132.6	14,100	48.6	130.9	14,500	50.3	127.3	14,800	130
135	44.3	127.4	13,100	46.2	125.6	13,400	47.8	121.9	13,700	135
140	41.9	121.8	12,200	43.8	119.9	12,400	45.3	116.0	12,700	140
145	39.3	115.6	11,300	41.2	113.7	11,500				145
150	36.6	108.8	10,400	38.4	106.8	10,700				150
155	33.7	101.3	9,700	35.4	99.1	9,900				155
160	30.5	92.9	8,900							160
165	27.0	83.2	8,200							165
170	23.0	71.6	7,600							170

MLC165-1 S-1

ASME B30.5



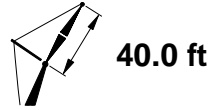
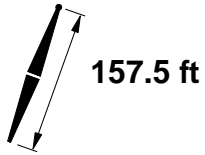
101,400 lb
+
0 lb



ft	5°			15°			25°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45	79.0	189.8	50,800							45
50	77.4	188.6	49,900	79.6	187.4	46,500				50
55	75.9	187.3	49,100	78.0	186.0	46,100				55
60	74.3	185.8	48,400	76.4	184.6	45,600	78.5	181.9	36,000	60
65	72.7	184.2	44,000	74.7	182.9	45,100	76.9	180.3	34,800	65
70	71.0	182.4	39,500	73.1	181.1	40,500	75.2	178.4	33,700	70
75	69.4	180.5	35,700	71.5	179.2	36,600	73.5	176.5	32,700	75
80	67.7	178.4	32,400	69.8	177.1	33,200	71.8	174.3	31,700	80
85	66.1	176.1	29,500	68.1	174.8	30,300	70.1	172.0	30,800	85
90	64.4	173.6	27,000	66.4	172.3	27,700	68.4	169.4	28,400	90
95	62.6	171.0	24,800	64.6	169.6	25,400	66.6	166.7	26,100	95
100	60.9	168.1	22,800	62.9	166.7	23,400	64.8	163.8	24,000	100
105	59.1	165.1	21,000	61.1	163.6	21,600	62.9	160.6	22,100	105
110	57.2	161.8	19,400	59.2	160.3	19,900	61.0	157.3	20,400	110
115	55.4	158.3	17,900	57.3	156.8	18,400	59.1	153.6	18,900	115
120	53.5	154.5	16,600	55.4	153.0	17,100	57.1	149.7	17,500	120
125	51.5	150.5	15,400	53.4	148.9	15,800	55.1	145.6	16,200	125
130	49.5	146.1	14,300	51.4	144.5	14,700	53.0	141.1	15,000	130
135	47.4	141.5	13,300	49.2	139.8	13,600	50.8	136.2	13,900	135
140	45.2	136.4	12,300	47.0	134.7	12,600	48.6	131.0	12,900	140
145	43.0	131.0	11,400	44.8	129.2	11,700	46.2	125.3	11,900	145
150	40.6	125.1	10,600	42.4	123.2	10,900				150
155	38.1	118.7	9,800	39.8	116.7	10,100				155
160	35.5	111.7	9,100	37.1	109.5	9,300				160
165	32.6	103.9	8,400	34.2	101.5	8,600				165
170	29.6	95.1	7,800							170
175	26.1	85.0	7,200							175
180	22.2	73.1	6,600							180

MLC165-1 S-1

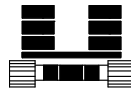
ASME B30.5



	5°			15°			25°				
	ft	°	ft	lb	ft	°	ft	lb	ft		
45	79.6		199.8	50,500						45	
50	78.1		198.7	49,800						50	
55	76.6		197.5	49,000	78.6	196.2	45,900			55	
60	75.1		196.1	48,300	77.1	194.8	45,500	79.1	192.2	36,500	60
65	73.6		194.6	43,700	75.5	193.3	44,900	77.6	190.6	35,300	65
70	72.0		192.9	39,200	74.0	191.6	40,200	76.0	188.9	34,200	70
75	70.5		191.1	35,300	72.4	189.8	36,300	74.4	187.0	33,200	75
80	68.9		189.1	32,000	70.9	187.8	32,900	72.8	185.0	32,200	80
85	67.3		186.9	29,100	69.3	185.6	29,900	71.2	182.8	30,800	85
90	65.7		184.6	26,600	67.7	183.3	27,400	69.6	180.4	28,100	90
95	64.1		182.1	24,400	66.0	180.8	25,100	67.9	177.9	25,800	95
100	62.5		179.5	22,400	64.4	178.1	23,000	66.2	175.1	23,700	100
105	60.8		176.6	20,600	62.7	175.2	21,200	64.5	172.2	21,800	105
110	59.1		173.5	19,000	61.0	172.1	19,600	62.7	169.1	20,100	110
115	57.4		170.3	17,500	59.2	168.8	18,100	61.0	165.7	18,500	115
120	55.6		166.8	16,200	57.4	165.3	16,700	59.1	162.1	17,100	120
125	53.8		163.1	15,000	55.6	161.5	15,500	57.3	158.3	15,900	125
130	51.9		159.1	13,900	53.7	157.5	14,300	55.4	154.2	14,700	130
135	50.0		154.8	12,900	51.8	153.2	13,200	53.4	149.8	13,600	135
140	48.1		150.3	11,900	49.8	148.6	12,300	51.4	145.1	12,600	140
145	46.0		145.4	11,000	47.8	143.7	11,400	49.2	140.0	11,600	145
150	43.9		140.2	10,200	45.6	138.4	10,500	47.0	134.5	10,700	150
155	41.7		134.5	9,400	43.4	132.6	9,700	44.8	128.6	9,900	155
160	39.4		128.4	8,700	41.1	126.4	9,000				160
165	37.0		121.7	8,100	38.6	119.6	8,300				165
170	34.4		114.4	7,400	36.0	112.1	7,600				170
175	31.7		106.3	6,800	33.2	103.9	7,000				175
180	28.7		97.2	6,200							180
185	25.3		86.8	5,700							185

MLC165-1 S-1

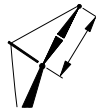
ASME B30.5



101,400 lb
+
0 lb



167.3 ft

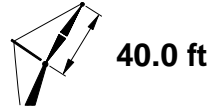
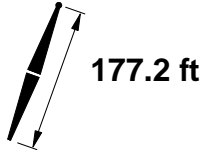


40.0 ft

	5°			15°			25°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50	78.7	208.8	49,500							50
55	77.2	207.6	48,800	79.1	206.4	45,700				55
60	75.8	206.3	48,100	77.7	205.1	45,300	79.7	202.4	36,900	60
65	74.4	204.9	43,400	76.3	203.6	44,600	78.2	200.9	35,800	65
70	72.9	203.3	38,800	74.8	202.0	40,000	76.7	199.3	34,700	70
75	71.4	201.5	35,000	73.3	200.2	36,000	75.2	197.5	33,700	75
80	70.0	199.7	31,700	71.8	198.4	32,600	73.7	195.6	32,800	80
85	68.5	197.6	28,800	70.3	196.3	29,700	72.2	193.5	30,500	85
90	67.0	195.5	26,300	68.8	194.1	27,100	70.6	191.3	27,800	90
95	65.4	193.1	24,000	67.3	191.8	24,800	69.1	188.9	25,500	95
100	63.9	190.6	22,100	65.7	189.2	22,700	67.5	186.3	23,400	100
105	62.3	187.9	20,300	64.1	186.5	20,900	65.9	183.6	21,500	105
110	60.7	185.1	18,700	62.5	183.6	19,300	64.2	180.6	19,800	110
115	59.1	182.0	17,200	60.9	180.6	17,800	62.6	177.5	18,300	115
120	57.5	178.8	15,900	59.2	177.3	16,400	60.9	174.2	16,900	120
125	55.8	175.3	14,700	57.5	173.8	15,100	59.2	170.6	15,600	125
130	54.1	171.6	13,600	55.8	170.1	14,000	57.4	166.8	14,400	130
135	52.3	167.7	12,500	54.0	166.1	12,900	55.6	162.8	13,300	135
140	50.5	163.5	11,600	52.2	161.9	12,000	53.7	158.5	12,300	140
145	48.6	159.1	10,700	50.3	157.4	11,100	51.8	153.9	11,400	145
150	46.7	154.3	9,900	48.4	152.6	10,200	49.8	148.9	10,500	150
155	44.8	149.2	9,100	46.4	147.4	9,400	47.8	143.6	9,700	155
160	42.7	143.8	8,400	44.3	141.9	8,700	45.6	137.9	8,900	160
165	40.6	137.9	7,700	42.2	135.9	8,000				165
170	38.3	131.5	7,100	39.9	129.5	7,300				170
175	36.0	124.6	6,500	37.5	122.4	6,700				175
180	33.5	117.0	5,900	34.9	114.7	6,100				180
185	30.8	108.6	5,400							185
190	27.8	99.2	4,900							190
195	24.5	88.5	4,400							195

MLC165-1 S-1

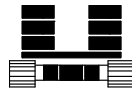
ASME B30.5



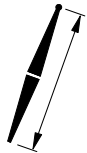
	5°			15°			25°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50	79.2	218.9	49,100							50
55	77.8	217.8	48,500	79.7	216.5	45,500				55
60	76.5	216.5	47,800	78.3	215.2	45,100				60
65	75.1	215.1	43,000	76.9	213.8	44,300	78.7	211.1	36,200	65
70	73.7	213.6	38,500	75.5	212.3	39,700	77.3	209.6	35,100	70
75	72.3	212.0	34,600	74.1	210.7	35,700	75.9	207.9	34,200	75
80	70.9	210.2	31,300	72.7	208.9	32,300	74.5	206.1	33,200	80
85	69.5	208.3	28,400	71.3	206.9	29,300	73.0	204.1	30,200	85
90	68.1	206.2	25,900	69.8	204.9	26,700	71.6	202.0	27,600	90
95	66.6	204.0	23,700	68.4	202.6	24,400	70.1	199.8	25,200	95
100	65.2	201.6	21,700	66.9	200.2	22,400	68.6	197.3	23,100	100
105	63.7	199.1	19,900	65.4	197.7	20,500	67.1	194.7	21,200	105
110	62.2	196.4	18,300	63.9	195.0	18,900	65.6	192.0	19,500	110
115	60.7	193.5	16,800	62.4	192.1	17,400	64.0	189.1	18,000	115
120	59.1	190.5	15,500	60.8	189.0	16,000	62.4	185.9	16,500	120
125	57.6	187.3	14,300	59.2	185.8	14,800	60.8	182.6	15,300	125
130	56.0	183.8	13,200	57.6	182.3	13,600	59.2	179.1	14,100	130
135	54.3	180.2	12,100	56.0	178.6	12,600	57.5	175.3	13,000	135
140	52.7	176.3	11,200	54.3	174.7	11,600	55.8	171.4	12,000	140
145	50.9	172.2	10,300	52.6	170.6	10,700	54.0	167.1	11,000	145
150	49.2	167.8	9,500	50.8	166.2	9,800	52.2	162.6	10,100	150
155	47.4	163.2	8,700	49.0	161.5	9,000	50.3	157.8	9,300	155
160	45.5	158.2	8,000	47.1	156.4	8,300	48.4	152.6	8,600	160
165	43.6	152.9	7,300	45.1	151.1	7,600	46.4	147.1	7,800	165
170	41.6	147.2	6,700	43.1	145.3	6,900	44.3	141.2	7,100	170
175	39.5	141.1	6,100	41.0	139.1	6,300				175
180	37.3	134.5	5,500	38.8	132.4	5,700				180
185	35.0	127.4	5,000	36.4	125.1	5,200				185
190	32.6	119.6	4,400	33.9	117.1	4,600				190

MLC165-1 S-1

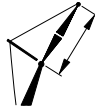
ASME B30.5



101,400 lb
+
0 lb



187.0 ft

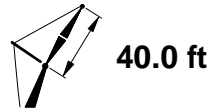
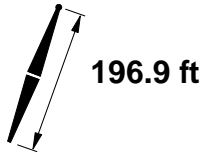


40.0 ft

	5°			15°			25°				
	ft	°	ft	lb	ft	°	ft	lb	ft		
50	79.7		229.0							50	
55	78.4		227.9							55	
60	77.1		226.7							60	
65	75.8		225.4	42,800	78.8	225.4	44,800	79.3	221.3	36,600	65
70	74.4		223.9	38,200	77.5	224.1	44,100	77.9	219.9	35,600	70
75	73.1		222.4	34,300	76.2	222.6	39,400				75
80	71.8		220.7	31,000	74.8	221.0	35,500	76.6	218.3	34,600	80
85	70.4		218.8	28,100	73.5	219.3	32,000	75.2	216.5	33,100	85
90	69.1		216.9	25,600	72.1	217.5	29,100	73.8	214.7	30,000	90
95	67.7		214.8	23,400	70.8	215.5	26,500	72.5	212.7	27,300	95
100	66.3		212.5	21,400	69.4	213.4	24,200	71.1	210.5	25,000	100
105	64.9		210.1	19,600	68.0	211.1	22,100	69.6	208.2	22,900	105
110	63.5		207.6	18,000	66.6	208.7	20,300	68.2	205.8	21,000	110
115	62.1		204.9	16,500	65.2	206.2	18,600	66.8	203.2	19,300	115
120	60.6		202.0	15,200	63.7	203.5	17,100	65.3	200.4	17,700	120
125	59.1		199.0	14,000	62.3	200.6	15,800	63.8	197.5	16,300	125
130	57.6		195.8	12,900	60.8	197.5	14,500	62.3	194.4	15,000	130
135	56.1		192.4	11,900	59.3	194.3	13,400	60.8	191.1	13,800	135
140	54.6		188.7	10,900	57.7	190.8	12,300	59.2	187.6	12,800	140
145	53.0		184.9	10,000	56.1	187.2	11,300	57.6	183.9	11,700	145
150	51.3		180.9	9,200	54.5	183.3	10,400	56.0	179.9	10,800	150
155	49.7		176.6	8,400	52.9	179.2	9,600	54.3	175.8	9,900	155
160	48.0		172.0	7,700	51.2	174.9	8,800	52.6	171.3	9,100	160
165	46.2		167.2	7,100	49.5	170.3	8,100	50.8	166.6	8,300	165
170	44.4		162.0	6,400	47.7	165.4	7,400	49.0	161.6	7,600	170
175	42.5		156.5	5,800	45.9	160.2	6,700	47.1	156.3	6,900	175
180	40.6		150.6	5,300	44.0	154.6	6,100	45.1	150.5	6,300	180
185	38.5		144.3	4,600	42.0	148.6	5,500				185
190	36.4		137.5	4,000	39.9	142.2	4,900				190
					37.8	135.3	4,300				190

MLC165-1 S-1

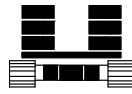
ASME B30.5



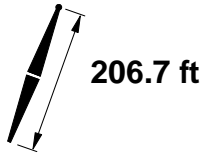
	5°			15°			25°			
	ft	°	ft	lb	ft	°	ft	lb	ft	
55	78.9		238.0	47,600						55
60	77.6		236.8	47,000	79.3		235.5	44,300		60
65	76.4		235.6	42,400	78.0		234.2	43,800		65
70	75.1		234.2	37,900	76.8		232.9	39,100	78.5	70
75	73.8		232.7	34,000	75.5		231.4	35,200	77.2	75
80	72.6		231.1	30,700	74.2		229.7	31,700	75.9	80
85	71.3		229.3	27,800	72.9		228.0	28,800	74.6	85
90	70.0		227.5	25,200	71.6		226.1	26,100	73.2	90
95	68.7		225.5	23,000	70.3		224.1	23,800	71.9	95
100	67.4		223.3	21,000	69.0		221.9	21,800	70.6	100
105	66.0		221.1	19,200	67.7		219.7	20,000	69.2	105
110	64.7		218.6	17,600	66.3		217.2	18,300	67.8	110
115	63.3		216.1	16,100	64.9		214.7	16,800	66.5	115
120	62.0		213.4	14,800	63.5		211.9	15,400	65.0	120
125	60.6		210.5	13,600	62.1		209.0	14,200	63.6	125
130	59.2		207.5	12,500	60.7		206.0	13,000	62.2	130
135	57.7		204.3	11,500	59.3		202.7	12,000	60.7	135
140	56.3		200.9	10,500	57.8		199.3	11,000	59.2	140
145	54.8		197.3	9,600	56.3		195.7	10,100	57.7	145
150	53.2		193.5	8,800	54.8		191.9	9,200	56.1	150
155	51.7		189.5	8,000	53.2		187.9	8,400	54.5	155
160	50.1		185.3	7,300	51.6		183.6	7,700	52.9	160
165	48.5		180.8	6,700	50.0		179.1	7,000	51.2	165
170	46.8		176.0	6,000	48.3		174.3	6,300	49.5	170
175	45.1		171.0	5,400	46.5		169.2	5,700	47.7	175
180	43.3		165.7	4,700	44.7		163.8	5,000	45.9	180
185	41.5		160.0	4,100	42.9		158.0	4,400	44.0	185

MLC165-1 S-1

ASME B30.5



101,400 lb
+
0 lb



	5°			15°			25°			
	ft	°	ft	lb	ft	°	ft	lb	ft	
55	79.3		248.0							55
60	78.1		246.9							60
65	76.9		245.7							65
70	75.7		244.4	78.5	244.4	43,600				70
75	74.5		243.0	77.3	243.1	38,900	78.9	240.3	36,300	75
80				76.1	241.6	34,900	77.7	238.8	35,400	80
85	73.3		241.4							85
90	72.1		239.8	74.9	240.1	31,400	76.5	237.3	32,600	90
95	70.8		238.0	73.6	238.4	28,500	75.2	235.6	29,500	95
100	69.6		236.1	72.4	236.6	25,900	74.0	233.8	26,800	100
105	68.3		234.0	71.2	234.7	23,500	72.7	231.8	24,400	105
110				69.9	232.7	21,500	71.4	229.7	22,300	110
115	67.1		231.9							115
120	65.8		229.6	68.6	230.5	19,600	70.1	227.5	20,400	120
125	64.5		227.1	67.3	228.2	18,000	68.8	225.2	18,700	125
130	63.2		224.6	66.0	225.7	16,500	67.5	222.7	17,100	130
135	61.9		221.8	64.7	223.1	15,100	66.2	220.1	15,700	135
140				63.4	220.4	13,900	64.8	217.3	14,400	140
145	60.5		219.0							145
150	59.2		215.9	62.0	217.5	12,700	63.4	214.4	13,200	150
155	57.8		212.7	60.7	214.4	11,600	62.1	211.3	12,100	155
160	56.4		209.4	59.3	211.2	10,700	60.6	208.0	11,100	160
165	55.0		205.8	57.9	207.8	9,700	59.2	204.5	10,200	165
170				56.4	204.2	8,900	57.7	200.9	9,300	170
175	53.5		202.1							175
180	52.0		198.1	55.0	200.5	8,100	56.3	197.1	8,500	180
185	50.5		193.9	53.5	196.5	7,400	54.7	193.0	7,700	185
	49.0		189.5	51.9	192.3	6,700	53.2	188.7	7,000	
	47.4		184.9	50.4	187.8	6,000	51.6	184.2	6,300	
	45.8		180.0	48.8	183.1	5,200	50.0	179.4	5,600	
				47.1	178.2	4,600	48.3	174.3	4,900	
							46.5	168.9	4,200	

MLC165-1 S-1

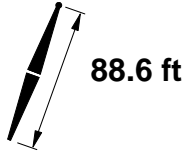
ASME B30.5



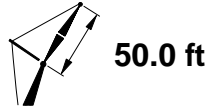
101,400 lb
+
0 lb



360°



88.6 ft



50.0 ft

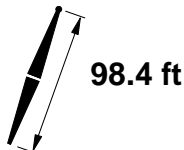
	5°			15°			25°				
	ft	°	ft	lb	ft	°	ft	lb	ft		
35	79.7		141.8	44,500						35	
40	77.5		140.6	43,300						40	
45	75.4		139.1	42,100	79.0	137.9	39,300			45	
50	73.2		137.5	41,000	76.8	136.2	38,400			50	
55	71.0		135.7	40,000	74.6	134.4	37,400	78.3	131.6	29,600	55
60	68.7		133.6	39,100	72.3	132.3	36,600	76.0	129.5	28,100	60
65	66.5		131.3	38,100	70.0	130.0	35,800	73.6	127.1	26,800	65
70	64.1		128.7	37,000	67.7	127.4	34,400	71.2	124.5	25,600	70
75	61.8		125.9	36,100	65.3	124.5	32,500	68.8	121.6	24,500	75
80	59.3		122.8	34,400	62.8	121.4	30,900	66.2	118.3	23,500	80
85	56.8		119.4	31,500	60.3	118.0	29,400	63.6	114.8	22,600	85
90	54.3		115.7	29,000	57.7	114.2	28,000	60.9	110.9	21,800	90
95	51.6		111.6	26,800	54.9	110.0	26,800	58.1	106.6	21,100	95
100	48.8		107.1	24,800	52.1	105.4	25,300	55.2	101.8	20,400	100
105	45.9		102.1	23,000	49.1	100.3	23,400	52.1	96.5	19,800	105
110	42.8		96.5	21,400	46.0	94.7	21,800	48.8	90.6	19,300	110
115	39.5		90.3	19,900	42.6	88.3	20,300	45.2	83.9	18,800	115
120	35.9		83.3	18,600	38.9	81.1	18,900				120
125	31.9		75.1	17,300	34.8	72.7	17,600				125
130	27.4		65.5	16,200							130
135	22.0		53.3	15,100							135

MLC165-1 S-1

ASME B30.5



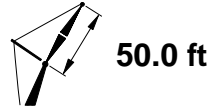
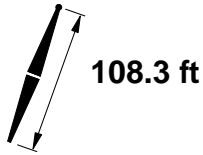
101,400 lb
+
0 lb



ft	5°			15°			25°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
40	78.4	150.7	43,500							40
45	76.4	149.4	42,400							45
50	74.4	147.9	41,400	77.7	146.6	38,600				50
55	72.3	146.2	40,400	75.7	144.8	37,800	79.1	142.0	30,200	55
60	70.2	144.3	39,500	73.6	142.9	37,000	77.0	140.0	28,800	60
65	68.1	142.1	38,600	71.5	140.8	36,200	74.8	137.9	27,400	65
70	66.0	139.8	37,700	69.3	138.4	35,500	72.6	135.4	26,200	70
75	63.8	137.2	36,700	67.1	135.8	33,900	70.4	132.8	25,200	75
80	61.6	134.4	34,000	64.9	133.0	32,200	68.1	129.9	24,200	80
85	59.3	131.3	31,100	62.6	129.8	30,700	65.7	126.7	23,300	85
90	57.0	128.0	28,600	60.2	126.4	29,300	63.3	123.2	22,500	90
95	54.6	124.3	26,400	57.8	122.7	27,000	60.8	119.3	21,800	95
100	52.1	120.3	24,400	55.3	118.6	24,900	58.2	115.1	21,100	100
105	49.6	115.9	22,600	52.7	114.2	23,100	55.5	110.5	20,500	105
110	46.9	111.0	21,000	49.9	109.3	21,400	52.7	105.4	19,900	110
115	44.1	105.7	19,500	47.1	103.9	19,900	49.7	99.8	19,400	115
120	41.1	99.9	18,200	44.0	97.9	18,500	46.5	93.5	18,900	120
125	37.9	93.3	17,000	40.8	91.2	17,300				125
130	34.4	85.9	15,800	37.2	83.5	16,100				130
135	30.6	77.4	14,800	33.3	74.7	15,000				135
140	26.3	67.3	13,800							140

MLC165-1 S-1

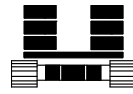
ASME B30.5



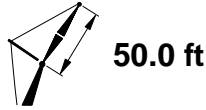
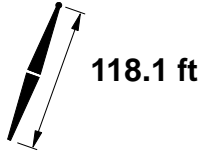
	5°			15°			25°				
	ft	°	ft	lb	ft	°	ft	lb	ft		
40	79.1		160.8	43,600						40	
45	77.2		159.6	42,600						45	
50	75.4		158.2	41,600	78.5	156.8	38,800			50	
55	73.5		156.6	40,700	76.6	155.2	38,100			55	
60	71.5		154.8	39,900	74.7	153.4	37,300	77.9	150.5	29,300	60
65	69.6		152.8	39,100	72.7	151.4	36,600	75.9	148.5	28,100	65
70	67.6		150.7	38,300	70.7	149.3	35,900	73.9	146.3	26,900	70
75	65.6		148.3	37,000	68.7	146.9	35,300	71.8	143.8	25,800	75
80	63.6		145.7	33,700	66.6	144.2	33,500	69.7	141.1	24,900	80
85	61.5		142.9	30,800	64.5	141.4	31,600	67.5	138.2	24,000	85
90	59.4		139.8	28,300	62.4	138.3	29,000	65.3	135.0	23,200	90
95	57.2		136.5	26,100	60.2	134.9	26,800	63.0	131.5	22,400	95
100	54.9		132.8	24,100	57.9	131.2	24,700	60.7	127.8	21,700	100
105	52.6		128.9	22,300	55.6	127.2	22,900	58.3	123.6	21,100	105
110	50.2		124.6	20,700	53.2	122.9	21,200	55.8	119.2	20,500	110
115	47.8		119.9	19,300	50.6	118.1	19,700	53.2	114.3	20,000	115
120	45.2		114.8	17,900	48.0	112.9	18,300	50.5	108.9	18,700	120
125	42.5		109.2	16,700	45.2	107.3	17,100	47.6	102.9	17,400	125
130	39.6		103.1	15,600	42.3	100.9	15,900	44.5	96.3	16,200	130
135	36.5		96.2	14,600	39.1	93.9	14,800				135
140	33.2		88.4	13,600	35.7	85.9	13,800				140
145	29.4		79.5	12,700							145
150	25.2		68.9	11,800							150

MLC165-1 S-1

ASME B30.5



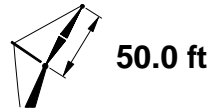
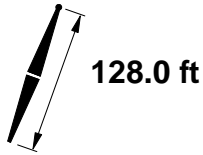
101,400 lb
+
0 lb



ft	5°			15°			25°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45	78.0	169.7	42,700							45
50	76.2	168.4	41,800	79.2	167.0	39,000				50
55	74.5	166.9	40,900	77.5	165.5	38,300				55
60	72.7	165.3	40,100	75.6	163.9	37,500	78.7	160.9	29,900	60
65	70.8	163.4	39,300	73.8	162.0	36,800	76.8	159.0	28,600	65
70	69.0	161.4	38,600	71.9	160.0	36,200	74.9	156.9	27,500	70
75	67.1	159.2	36,600	70.1	157.7	35,600	73.0	154.7	26,400	75
80	65.3	156.8	33,300	68.2	155.3	34,200	71.0	152.2	25,500	80
85	63.3	154.2	30,400	66.2	152.7	31,300	69.0	149.5	24,600	85
90	61.4	151.3	27,900	64.2	149.8	28,700	67.0	146.5	23,800	90
95	59.4	148.3	25,700	62.2	146.7	26,400	64.9	143.4	23,000	95
100	57.3	145.0	23,700	60.1	143.3	24,400	62.8	139.9	22,300	100
105	55.2	141.4	21,900	58.0	139.7	22,500	60.6	136.2	21,700	105
110	53.1	137.5	20,300	55.8	135.8	20,900	58.4	132.2	21,100	110
115	50.8	133.3	18,900	53.6	131.6	19,400	56.1	127.8	19,800	115
120	48.5	128.8	17,500	51.2	126.9	18,000	53.7	123.0	18,400	120
125	46.1	123.8	16,300	48.8	121.9	16,700	51.1	117.9	17,100	125
130	43.6	118.5	15,200	46.3	116.5	15,600	48.5	112.2	15,900	130
135	41.0	112.6	14,200	43.6	110.5	14,500	45.7	105.9	14,800	135
140	38.2	106.1	13,200	40.7	103.9	13,500				140
145	35.2	98.9	12,300	37.7	96.5	12,600				145
150	32.0	90.9	11,500	34.3	88.2	11,700				150
155	28.4	81.6	10,700							155
160	24.2	70.5	9,900							160

MLC165-1 S-1

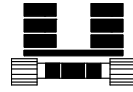
ASME B30.5



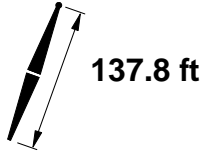
	5°			15°			25°				
	ft	°	ft	lb	ft	°	ft	lb	ft		
45	78.7		179.8	42,800						45	
50	77.0		178.6	41,900						50	
55	75.4		177.2	41,100	78.2	175.8	38,400			55	
60	73.7		175.7	40,300	76.5	174.2	37,700	79.3	171.2	30,400	60
65	72.0		173.9	39,600	74.8	172.5	37,100	77.6	169.4	29,100	65
70	70.2		172.0	38,900	73.0	170.6	36,500	75.8	167.5	28,000	70
75	68.5		170.0	36,300	71.3	168.5	35,900	74.0	165.4	27,000	75
80	66.7		167.7	33,000	69.5	166.2	34,000	72.2	163.1	26,000	80
85	64.9		165.3	30,100	67.7	163.8	31,000	70.4	160.6	25,200	85
90	63.1		162.7	27,600	65.8	161.1	28,400	68.5	157.8	24,400	90
95	61.3		159.8	25,300	64.0	158.2	26,100	66.6	154.9	23,600	95
100	59.4		156.8	23,400	62.0	155.1	24,100	64.6	151.7	22,900	100
105	57.4		153.5	21,600	60.1	151.8	22,200	62.6	148.3	22,300	105
110	55.5		149.9	20,000	58.1	148.2	20,600	60.6	144.6	21,100	110
115	53.4		146.1	18,500	56.0	144.4	19,100	58.5	140.7	19,600	115
120	51.4		142.0	17,200	53.9	140.2	17,700	56.3	136.4	18,200	120
125	49.2		137.6	16,000	51.7	135.7	16,400	54.0	131.8	16,900	125
130	47.0		132.8	14,900	49.5	130.9	15,300	51.7	126.8	15,700	130
135	44.6		127.6	13,800	47.1	125.6	14,200	49.3	121.3	14,500	135
140	42.2		122.0	12,900	44.7	119.9	13,200	46.7	115.4	13,500	140
145	39.7		115.8	12,000	42.1	113.6	12,300	44.0	108.8	12,500	145
150	37.0		109.1	11,100	39.3	106.7	11,400				150
155	34.1		101.6	10,400	36.3	99.0	10,600				155
160	30.9		93.2	9,600	33.1	90.3	9,800				160
165	27.4		83.5	8,900							165
170	23.4		72.0	8,300							170

MLC165-1 S-1

ASME B30.5



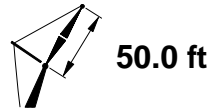
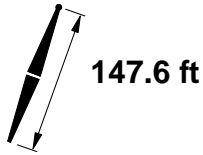
101,400 lb
+
0 lb



ft	5°			15°			25°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45	79.3	189.9	42,700							45
50	77.7	188.8	41,900							50
55	76.1	187.4	41,200	78.8	186.0	38,500				55
60	74.6	186.0	40,400	77.2	184.5	37,900				60
65	72.9	184.4	39,700	75.6	182.9	37,200	78.3	179.8	29,600	65
70	71.3	182.6	39,000	74.0	181.1	36,700	76.6	178.0	28,500	70
75	69.7	180.6	35,900	72.3	179.1	36,100	74.9	176.0	27,500	75
80	68.0	178.5	32,600	70.6	177.0	33,600	73.2	173.8	26,600	80
85	66.4	176.2	29,700	69.0	174.7	30,700	71.5	171.5	25,700	85
90	64.7	173.8	27,200	67.2	172.2	28,100	69.8	168.9	24,900	90
95	62.9	171.1	24,900	65.5	169.6	25,800	68.0	166.2	24,200	95
100	61.2	168.3	23,000	63.7	166.7	23,700	66.2	163.3	23,500	100
105	59.4	165.2	21,200	61.9	163.6	21,900	64.3	160.1	22,600	105
110	57.6	162.0	19,600	60.1	160.3	20,200	62.4	156.7	20,800	110
115	55.7	158.4	18,100	58.2	156.7	18,700	60.5	153.1	19,300	115
120	53.8	154.7	16,800	56.2	152.9	17,300	58.5	149.2	17,900	120
125	51.8	150.6	15,600	54.3	148.8	16,100	56.5	145.0	16,500	125
130	49.8	146.3	14,400	52.2	144.4	14,900	54.4	140.5	15,300	130
135	47.7	141.7	13,400	50.1	139.7	13,800	52.2	135.6	14,200	135
140	45.5	136.6	12,500	47.9	134.6	12,800	49.9	130.3	13,200	140
145	43.3	131.2	11,600	45.6	129.1	11,900	47.5	124.6	12,200	145
150	40.9	125.3	10,700	43.2	123.2	11,100	45.1	118.4	11,300	150
155	38.5	118.9	10,000	40.7	116.6	10,300				155
160	35.8	111.9	9,200	38.0	109.4	9,500				160
165	33.0	104.1	8,600	35.1	101.4	8,800				165
170	29.9	95.4	7,900							170
175	26.5	85.3	7,300							175
180	22.6	73.5	6,700							180

MLC165-1 S-1

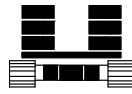
ASME B30.5



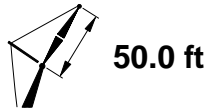
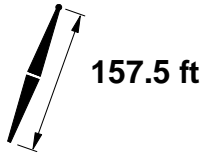
	5°			15°			25°			
	ft	°	ft	lb	ft	°	ft	lb	ft	
50	78.3		198.9	41,900						50
55	76.9		197.6	41,200	79.4	196.2	38,500			55
60	75.3		196.2	40,500	77.9	194.8	38,000			60
65	73.8		194.7	39,800	76.4	193.2	37,400	78.9	190.1	30,100
70	72.3		193.0	39,200	74.8	191.5	36,900	77.3	188.4	29,000
75	70.8		191.2	36,000	73.3	189.7	36,300	75.8	186.5	28,000
80	69.2		189.2	32,700	71.7	187.7	33,700	74.2	184.5	27,100
85	67.6		187.1	29,800	70.1	185.5	30,800	72.5	182.3	26,200
90	66.0		184.8	27,300	68.5	183.2	28,200	70.9	179.9	25,400
95	64.4		182.3	25,000	66.8	180.7	25,900	69.2	177.3	24,700
100	62.8		179.6	23,100	65.2	178.0	23,800	67.5	174.6	24,000
105	61.1		176.8	21,300	63.5	175.1	22,000	65.8	171.7	22,700
110	59.4		173.7	19,700	61.8	172.0	20,300	64.1	168.5	21,000
115	57.6		170.5	18,200	60.0	168.8	18,800	62.3	165.1	19,400
120	55.9		167.0	16,900	58.2	165.2	17,400	60.4	161.5	18,000
125	54.1		163.3	15,700	56.4	161.5	16,200	58.6	157.7	16,700
130	52.2		159.3	14,600	54.5	157.5	15,000	56.6	153.6	15,500
135	50.3		155.0	13,500	52.6	153.2	14,000	54.7	149.1	14,400
140	48.4		150.5	12,600	50.6	148.5	13,000	52.6	144.4	13,400
145	46.3		145.6	11,700	48.6	143.6	12,100	50.5	139.3	12,400
150	44.2		140.4	10,900	46.4	138.3	11,200	48.3	133.8	11,500
155	42.0		134.7	10,100	44.2	132.5	10,400	46.0	127.9	10,700
160	39.7		128.6	9,400	41.9	126.3	9,700			
165	37.3		121.9	8,700	39.4	119.5	9,000			
170	34.8		114.6	8,100	36.8	112.1	8,300			
175	32.0		106.6	7,500	34.0	103.8	7,600			
180	29.0		97.5	6,900						
185	25.7		87.1	6,300						
190	21.8		74.8	5,800						

MLC165-1 S-1

ASME B30.5



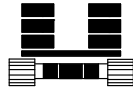
101,400 lb
+
0 lb



ft	5°			15°			25°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50	78.9	209.0	41,700							50
55	77.5	207.8	41,100							55
60	76.1	206.5	40,400	78.5	205.0	38,000				60
65	74.6	205.0	39,800	77.0	203.5	37,500	79.5	200.4	30,500	65
70	73.2	203.4	39,200	75.6	201.9	36,900	78.0	198.7	29,400	70
75	71.7	201.7	35,600	74.1	200.2	36,500	76.5	197.0	28,400	75
80	70.2	199.8	32,300	72.6	198.3	33,400	75.0	195.0	27,500	80
85	68.7	197.8	29,400	71.1	196.2	30,400	73.4	193.0	26,700	85
90	67.2	195.6	26,900	69.6	194.0	27,800	71.9	190.7	25,900	90
95	65.7	193.3	24,700	68.0	191.7	25,500	70.3	188.3	25,100	95
100	64.2	190.8	22,700	66.5	189.2	23,500	68.7	185.7	24,300	100
105	62.6	188.1	20,900	64.9	186.5	21,600	67.1	183.0	22,400	105
110	61.0	185.2	19,300	63.3	183.6	20,000	65.5	180.1	20,700	110
115	59.4	182.2	17,800	61.7	180.5	18,500	63.8	176.9	19,100	115
120	57.7	178.9	16,500	60.0	177.2	17,100	62.1	173.6	17,700	120
125	56.1	175.5	15,300	58.3	173.7	15,800	60.4	170.0	16,400	125
130	54.3	171.8	14,200	56.6	170.0	14,700	58.6	166.2	15,200	130
135	52.6	167.9	13,100	54.8	166.1	13,600	56.8	162.1	14,100	135
140	50.8	163.7	12,200	53.0	161.8	12,600	54.9	157.8	13,000	140
145	48.9	159.3	11,300	51.1	157.3	11,700	53.0	153.2	12,100	145
150	47.0	154.5	10,500	49.2	152.5	10,900	51.0	148.2	11,200	150
155	45.1	149.4	9,700	47.2	147.3	10,100	49.0	142.9	10,400	155
160	43.0	144.0	9,000	45.1	141.8	9,300	46.8	137.2	9,600	160
165	40.9	138.1	8,300	42.9	135.8	8,600	44.6	131.0	8,800	165
170	38.6	131.7	7,700	40.6	129.4	7,900				170
175	36.3	124.8	7,100	38.2	122.3	7,300				175
180	33.8	117.3	6,500	35.7	114.6	6,700				180
185	31.1	108.9	6,000	32.9	106.0	6,100				185
190	28.2	99.5	5,400							190
195	24.9	88.8	5,000							195

MLC165-1 S-1

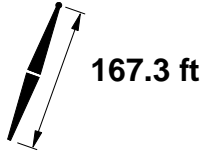
ASME B30.5



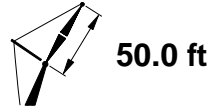
101,400 lb
+
0 lb



360°



167.3 ft

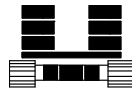


50.0 ft

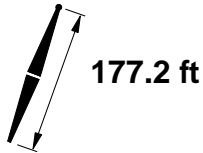
	5°			15°			25°			
	ft	°	ft	lb	ft	°	ft	lb	ft	
50	79.4		219.1	41,500						50
55	78.1		217.9	40,900						55
60	76.7		216.7	40,300	79.0	215.2				60
65	75.3		215.3	39,700	77.6	213.8				65
70	74.0		213.8	39,100	76.3	212.3				70
75	72.6		212.1	35,300	74.9	210.6				75
80	71.2		210.3	32,000	73.4	208.8				80
85	69.8		208.4	29,100	72.0	206.9				85
90	68.3		206.4	26,600	70.6	204.8				90
95	66.9		204.2	24,300	69.1	202.6				95
100	65.4		201.8	22,300	67.7	200.2				100
105	64.0		199.3	20,500	66.2	197.6				105
110	62.5		196.6	18,900	64.7	194.9				110
115	60.9		193.7	17,500	63.1	192.0				115
120	59.4		190.7	16,100	61.6	189.0				120
125	57.8		187.4	14,900	60.0	185.7				125
130	56.2		184.0	13,800	58.4	182.2				130
135	54.6		180.4	12,800	56.7	178.6				135
140	52.9		176.5	11,800	55.0	174.6				140
145	51.2		172.4	10,900	53.3	170.5				145
150	49.5		168.0	10,100	51.5	166.1				150
155	47.7		163.4	9,400	49.7	161.4				155
160	45.8		158.4	8,600	47.8	156.3				160
165	43.9		153.1	8,000	45.9	151.0				165
170	41.9		147.5	7,300	43.8	145.2				170
175	39.8		141.4	6,700	41.7	139.0				175
180	37.6		134.8	6,200	39.5	132.3				180
185	35.3		127.6	5,600	37.2	125.0				185
190	32.9		119.8	5,100	34.7	117.0				190
195	30.2		111.2	4,600						195
200	27.4		101.5	4,100						200

MLC165-1 S-1

ASME B30.5



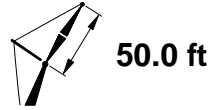
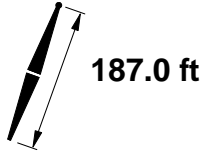
101,400 lb
+
0 lb



	5°			15°			25°			
	ft	°	ft	lb	ft	°	ft	lb	ft	
55	78.6		228.0	40,600						55
60	77.3		226.8	40,100	79.5	225.3	37,700			60
65	76.0		225.5	39,500	78.2	224.0	37,300			65
70	74.7		224.1	38,800	76.9	222.5	36,900	79.1	219.3	30,200
75	73.4		222.5	34,900	75.5	221.0	36,300	77.7	217.7	29,200
80	72.0		220.8	31,600	74.2	219.3	32,800	76.4	216.0	28,400
85	70.7		219.0	28,700	72.9	217.4	29,800	75.0	214.1	27,500
90	69.3		217.0	26,200	71.5	215.4	27,200	73.6	212.1	26,800
95	68.0		214.9	23,900	70.1	213.3	24,900	72.2	209.9	25,900
100	66.6		212.7	21,900	68.7	211.1	22,800	70.8	207.6	23,700
105	65.2		210.3	20,100	67.3	208.7	21,000	69.4	205.2	21,800
110	63.8		207.8	18,500	65.9	206.1	19,300	67.9	202.6	20,100
115	62.3		205.1	17,100	64.4	203.4	17,800	66.4	199.8	18,500
120	60.9		202.2	15,700	63.0	200.5	16,400	64.9	196.9	17,100
125	59.4		199.1	14,500	61.5	197.4	15,200	63.4	193.7	15,800
130	57.9		195.9	13,400	60.0	194.2	14,000	61.9	190.4	14,600
135	56.4		192.5	12,400	58.4	190.7	12,900	60.3	186.9	13,500
140	54.8		188.9	11,400	56.8	187.1	12,000	58.7	183.2	12,500
145	53.2		185.1	10,500	55.2	183.2	11,000	57.1	179.2	11,500
150	51.6		181.0	9,700	53.6	179.1	10,200	55.4	175.1	10,600
155	49.9		176.7	9,000	51.9	174.8	9,400	53.7	170.6	9,800
160	48.2		172.2	8,200	50.2	170.2	8,600	51.9	165.9	9,000
165	46.5		167.4	7,600	48.4	165.3	7,900	50.1	160.8	8,300
170	44.7		162.2	6,900	46.6	160.1	7,300	48.2	155.5	7,600
175	42.8		156.7	6,300	44.7	154.5	6,700	46.2	149.7	6,900
180	40.8		150.8	5,800	42.7	148.5	6,100	44.1	143.5	6,300
185	38.8		144.5	5,200	40.6	142.1	5,500			
190	36.7		137.7	4,700	38.4	135.2	5,000			
195	34.4		130.3	4,100	36.2	127.6	4,400			

MLC165-1 S-1

ASME B30.5



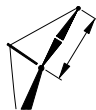
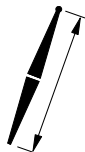
	5°			15°			25°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55	79.1	238.1	40,300							55
60	77.8	237.0	39,800							60
65	76.6	235.7	39,300	78.7	234.2	37,100				65
70	75.3	234.3	38,500	77.4	232.8	36,800	79.6	229.5	30,500	70
75	74.1	232.8	34,700	76.2	231.3	36,000	78.3	228.0	29,600	75
80	72.8	231.2	31,300	74.9	229.6	32,600	77.0	226.3	28,700	80
85	71.5	229.5	28,400	73.6	227.9	29,600	75.7	224.6	27,900	85
90	70.2	227.6	25,900	72.3	226.0	27,000	74.4	222.6	27,200	90
95	68.9	225.6	23,600	71.0	224.0	24,700	73.0	220.6	25,700	95
100	67.6	223.5	21,700	69.7	221.9	22,600	71.7	218.4	23,500	100
105	66.3	221.2	19,900	68.3	219.6	20,700	70.3	216.1	21,600	105
110	64.9	218.8	18,200	67.0	217.1	19,100	68.9	213.6	19,900	110
115	63.6	216.2	16,800	65.6	214.6	17,600	67.5	211.0	18,300	115
120	62.2	213.5	15,500	64.2	211.8	16,200	66.1	208.2	16,900	120
125	60.8	210.7	14,200	62.8	208.9	14,900	64.7	205.3	15,600	125
130	59.4	207.6	13,100	61.4	205.9	13,800	63.3	202.2	14,400	130
135	58.0	204.4	12,100	59.9	202.6	12,700	61.8	198.9	13,300	135
140	56.5	201.0	11,100	58.5	199.2	11,700	60.3	195.4	12,200	140
145	55.0	197.5	10,300	57.0	195.6	10,800	58.7	191.7	11,300	145
150	53.5	193.7	9,400	55.4	191.8	9,900	57.2	187.8	10,400	150
155	51.9	189.7	8,700	53.9	187.7	9,100	55.6	183.7	9,600	155
160	50.4	185.4	8,000	52.3	183.5	8,400	53.9	179.3	8,800	160
165	48.7	181.0	7,300	50.6	179.0	7,700	52.2	174.6	8,000	165
170	47.1	176.2	6,700	48.9	174.2	7,000	50.5	169.7	7,300	170
175	45.4	171.2	6,100	47.2	169.1	6,400	48.7	164.5	6,700	175
180	43.6	165.9	5,500	45.4	163.7	5,800	46.9	158.9	6,100	180
185	41.8	160.2	4,900	43.5	157.9	5,300	45.0	153.0	5,500	185
190	39.9	154.1	4,300	41.6	151.7	4,600				190
195				39.6	145.1	4,000				195

MLC165-1 S-1

ASME B30.5



101,400 lb
+
0 lb



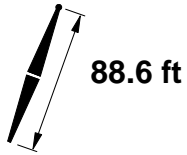
	5°			15°			25°				
	ft	°	ft	lb	ft	°	ft	lb	ft		
55	79.5		248.2	39,900						55	
60	78.3		247.1	39,400						60	
65	77.1		245.9	38,900	79.2	244.3	36,800			65	
70	75.9		244.5	38,200	78.0	243.0	36,600			70	
75	74.7		243.1	34,300	76.7	241.5	35,800	78.8	238.2	30,000	75
80	73.5		241.6	31,000	75.5	240.0	32,300	77.5	236.7	29,100	80
85	72.3		239.9	28,100	74.3	238.3	29,300	76.3	235.0	28,300	85
90	71.1		238.1	25,500	73.1	236.5	26,700	75.0	233.1	27,500	90
95	69.8		236.2	23,300	71.8	234.6	24,300	73.8	231.2	25,400	95
100	68.6		234.2	21,300	70.5	232.6	22,300	72.5	229.1	23,300	100
105	67.3		232.0	19,500	69.3	230.4	20,400	71.2	226.9	21,300	105
110	66.0		229.7	17,900	68.0	228.1	18,700	69.9	224.6	19,600	110
115	64.7		227.3	16,400	66.7	225.6	17,200	68.6	222.1	18,000	115
120	63.4		224.7	15,100	65.4	223.0	15,800	67.2	219.4	16,600	120
125	62.1		222.0	13,800	64.0	220.3	14,600	65.9	216.6	15,300	125
130	60.8		219.1	12,700	62.7	217.4	13,400	64.5	213.7	14,000	130
135	59.4		216.1	11,700	61.3	214.3	12,300	63.1	210.6	12,900	135
140	58.0		212.9	10,700	59.9	211.1	11,300	61.7	207.3	11,900	140
145	56.6		209.5	9,900	58.5	207.7	10,400	60.2	203.8	10,900	145
150	55.2		206.0	9,000	57.1	204.1	9,600	58.8	200.2	10,100	150
155	53.7		202.2	8,300	55.6	200.3	8,800	57.3	196.3	9,200	155
160	52.3		198.3	7,600	54.1	196.4	8,000	55.7	192.2	8,400	160
165	50.8		194.1	6,900	52.6	192.2	7,300	54.2	187.9	7,700	165
170	49.2		189.7	6,300	51.0	187.7	6,700	52.6	183.4	7,000	170
175	47.6		185.1	5,600	49.4	183.0	6,000	50.9	178.6	6,400	175
180	46.0		180.2	4,900	47.8	178.0	5,400	49.2	173.5	5,800	180
185	44.3		175.0	4,300	46.1	172.8	4,700	47.5	168.1	5,100	185
190					44.3	167.2	4,100	45.7	162.3	4,400	190

MLC165-1 S-1

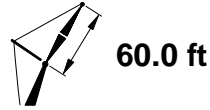
ASME B30.5



101,400 lb
+
0 lb



88.6 ft



60.0 ft

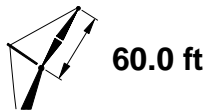
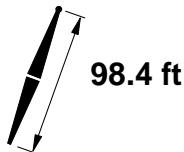
	5°			15°			25°				
	ft	°	ft	lb	ft	°	ft	lb	ft		
40	78.5		150.9	37,200						40	
45	76.5		149.6	36,200						45	
50	74.5		148.1	35,100	78.6	146.8	32,500			50	
55	72.4		146.4	34,100	76.5	145.0	31,800			55	
60	70.4		144.5	33,100	74.5	143.1	31,000	79.0	140.5	25,700	60
65	68.3		142.4	32,200	72.3	141.0	30,300	76.9	138.4	24,400	65
70	66.2		140.0	31,200	70.2	138.6	29,600	74.7	136.0	23,200	70
75	64.0		137.4	30,400	68.0	136.0	28,500	72.4	133.4	22,100	75
80	61.8		134.6	29,700	65.8	133.2	27,000	70.2	130.5	21,100	80
85	59.5		131.6	28,900	63.5	130.1	25,600	67.8	127.4	20,200	85
90	57.2		128.2	28,200	61.1	126.6	24,400	65.4	123.9	19,400	90
95	54.8		124.5	27,000	58.7	122.9	23,300	62.9	120.1	18,700	95
100	52.3		120.5	25,000	56.2	118.9	22,300	60.4	116.0	18,000	100
105	49.7		116.1	23,300	53.6	114.4	21,400	57.7	111.5	17,400	105
110	47.1		111.3	21,700	50.8	109.5	20,500	54.9	106.5	16,800	110
115	44.3		106.0	20,200	48.0	104.1	19,700	51.9	101.0	16,300	115
120	41.3		100.2	18,900	44.9	98.2	19,000	48.8	94.9	15,900	120
125	38.1		93.6	17,600	41.7	91.5	18,000	45.4	88.0	15,500	125
130	34.7		86.3	16,500	38.2	83.9	16,800				130
135	30.9		77.8	15,500	34.2	75.1	15,700				135
140	26.5		67.7	14,500							140
145	21.3		55.1	13,600							145

MLC165-1 S-1

ASME B30.5



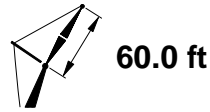
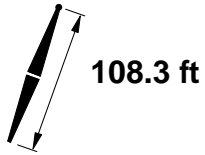
101,400 lb
+
0 lb



	5°			15°			25°				
	ft	°	ft	lb	ft	°	ft	lb	ft		
40	79.2		161.0	37,400						40	
45	77.4		159.8	36,400						45	
50	75.5		158.4	35,500	79.3	157.0	32,800			50	
55	73.6		156.8	34,500	77.4	155.4	32,000			55	
60	71.7		155.0	33,500	75.5	153.6	31,300			60	
65	69.7		153.1	32,600	73.5	151.6	30,600	77.8	148.9	24,900	65
70	67.7		150.9	31,800	71.5	149.4	30,000	75.8	146.7	23,700	70
75	65.7		148.5	31,000	69.5	147.1	29,400	73.7	144.3	22,700	75
80	63.7		145.9	30,200	67.4	144.4	28,100	71.6	141.7	21,700	80
85	61.6		143.1	29,500	65.3	141.6	26,700	69.4	138.8	20,800	85
90	59.5		140.0	28,800	63.2	138.5	25,500	67.3	135.6	20,000	90
95	57.3		136.7	26,600	61.0	135.1	24,400	65.0	132.2	19,300	95
100	55.1		133.1	24,600	58.7	131.4	23,300	62.7	128.5	18,600	100
105	52.8		129.1	22,800	56.4	127.4	22,400	60.3	124.5	18,000	105
110	50.4		124.9	21,200	54.0	123.1	21,500	57.8	120.0	17,400	110
115	47.9		120.2	19,800	51.5	118.4	20,300	55.2	115.2	16,900	115
120	45.4		115.1	18,400	48.8	113.2	18,900	52.5	109.9	16,400	120
125	42.6		109.5	17,200	46.1	107.5	17,700	49.7	104.1	16,000	125
130	39.8		103.4	16,100	43.1	101.2	16,500	46.6	97.6	15,600	130
135	36.7		96.5	15,100	40.0	94.2	15,400	43.3	90.4	15,300	135
140	33.4		88.8	14,100	36.6	86.3	14,400				140
145	29.7		79.9	13,200	32.8	77.1	13,400				145
150	25.5		69.4	12,300							150

MLC165-1 S-1

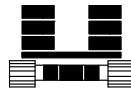
ASME B30.5



	5°			15°			25°				
	ft	°	ft	lb	ft	°	ft	lb	ft		
45	78.1		169.9	36,500						45	
50	76.4		168.6	35,600						50	
55	74.6		167.1	34,800	78.2	165.7	32,200			55	
60	72.8		165.5	33,900	76.4	164.0	31,500			60	
65	71.0		163.6	33,000	74.6	162.2	30,900	78.6	159.3	25,400	65
70	69.1		161.6	32,200	72.7	160.1	30,200	76.7	157.3	24,300	70
75	67.3		159.4	31,400	70.8	157.9	29,700	74.8	155.1	23,200	75
80	65.4		157.0	30,700	68.9	155.5	29,100	72.8	152.6	22,300	80
85	63.5		154.4	30,000	67.0	152.9	27,800	70.8	150.0	21,400	85
90	61.5		151.6	28,500	65.0	150.0	26,500	68.8	147.1	20,600	90
95	59.5		148.5	26,300	63.0	146.9	25,400	66.8	143.9	19,800	95
100	57.5		145.2	24,300	60.9	143.5	24,300	64.6	140.6	19,200	100
105	55.4		141.6	22,600	58.8	139.9	23,200	62.5	136.9	18,500	105
110	53.2		137.7	21,000	56.6	136.0	21,600	60.2	132.9	18,000	110
115	51.0		133.6	19,500	54.3	131.8	20,100	57.9	128.6	17,400	115
120	48.7		129.0	18,200	52.0	127.2	18,700	55.5	123.9	17,000	120
125	46.3		124.1	17,000	49.6	122.2	17,400	53.0	118.8	16,500	125
130	43.8		118.8	15,800	47.0	116.7	16,300	50.4	113.2	16,100	130
135	41.2		112.9	14,800	44.4	110.8	15,200	47.6	107.1	15,600	135
140	38.4		106.5	13,800	41.5	104.2	14,200	44.7	100.3	14,600	140
145	35.4		99.3	13,000	38.5	96.8	13,300				145
150	32.2		91.2	12,100	35.1	88.5	12,400				150
155	28.6		82.0	11,300	31.4	78.9	11,600				155
160	24.5		71.0	10,600							160

MLC165-1 S-1

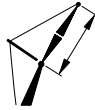
ASME B30.5



101,400 lb
+
0 lb



118.1 ft

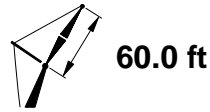
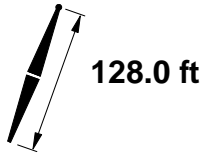


60.0 ft

ft	5°			15°			25°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45	78.8	180.0	36,500							45
50	77.1	178.8	35,800							50
55	75.5	177.4	35,000	78.9	175.9	32,300				55
60	73.8	175.9	34,200	77.2	174.4	31,700				60
65	72.1	174.1	33,400	75.5	172.6	31,100	79.3	169.7	25,900	65
70	70.4	172.2	32,600	73.7	170.7	30,500	77.5	167.8	24,800	70
75	68.6	170.2	31,800	72.0	168.7	30,000	75.7	165.7	23,700	75
80	66.8	167.9	31,100	70.2	166.4	29,400	73.9	163.4	22,800	80
85	65.1	165.5	30,400	68.4	163.9	28,800	72.0	161.0	21,900	85
90	63.2	162.9	28,100	66.5	161.3	27,500	70.2	158.3	21,100	90
95	61.4	160.0	25,900	64.7	158.4	26,300	68.3	155.4	20,400	95
100	59.5	157.0	23,900	62.8	155.3	24,700	66.3	152.3	19,700	100
105	57.6	153.7	22,100	60.8	152.0	22,900	64.3	148.9	19,100	105
110	55.6	150.2	20,500	58.8	148.4	21,200	62.3	145.3	18,500	110
115	53.6	146.3	19,100	56.8	144.6	19,700	60.2	141.4	18,000	115
120	51.5	142.2	17,800	54.7	140.4	18,300	58.0	137.1	17,500	120
125	49.3	137.8	16,500	52.5	135.9	17,100	55.8	132.6	17,000	125
130	47.1	133.1	15,400	50.2	131.1	15,900	53.5	127.6	16,500	130
135	44.8	127.9	14,400	47.9	125.8	14,800	51.0	122.3	15,300	135
140	42.4	122.3	13,400	45.4	120.1	13,800	48.5	116.4	14,300	140
145	39.8	116.1	12,500	42.8	113.9	12,900	45.8	110.0	13,300	145
150	37.1	109.4	11,700	40.0	107.0	12,000	42.9	102.9	12,400	150
155	34.2	101.9	10,900	37.1	99.3	11,200				155
160	31.1	93.6	10,200	33.8	90.7	10,500				160
165	27.6	83.9	9,500							165
170	23.6	72.6	8,900							170

MLC165-1 S-1

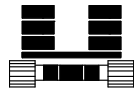
ASME B30.5



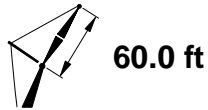
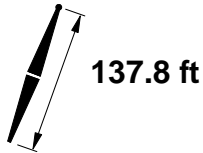
	5°			15°			25°				
	ft	°	ft	lb	ft	°	ft	lb	ft		
45	79.4		190.1	36,600						45	
50	77.8		189.0	35,900						50	
55	76.2		187.6	35,100	79.5	186.2	32,500			55	
60	74.7		186.2	34,400	77.9	184.7	31,800			60	
65	73.1		184.6	33,600	76.3	183.0	31,200			65	
70	71.4		182.8	32,800	74.6	181.2	30,700	78.2	178.2	25,200	70
75	69.8		180.8	32,100	73.0	179.3	30,200	76.5	176.3	24,200	75
80	68.1		178.7	31,500	71.3	177.2	29,600	74.8	174.1	23,200	80
85	66.5		176.5	30,300	69.6	174.9	29,200	73.1	171.8	22,400	85
90	64.8		174.0	27,800	67.9	172.4	28,500	71.4	169.3	21,600	90
95	63.0		171.4	25,600	66.2	169.7	26,500	69.6	166.6	20,900	95
100	61.3		168.5	23,600	64.4	166.8	24,400	67.8	163.7	20,200	100
105	59.5		165.5	21,800	62.6	163.8	22,600	65.9	160.6	19,600	105
110	57.7		162.2	20,200	60.7	160.5	20,900	64.0	157.3	19,000	110
115	55.8		158.7	18,700	58.9	156.9	19,400	62.1	153.7	18,400	115
120	53.9		154.9	17,400	56.9	153.1	18,000	60.1	149.8	17,900	120
125	51.9		150.9	16,200	54.9	149.0	16,800	58.1	145.7	17,400	125
130	49.9		146.6	15,100	52.9	144.6	15,600	56.0	141.2	16,200	130
135	47.8		141.9	14,000	50.8	139.9	14,500	53.9	136.4	15,100	135
140	45.7		136.9	13,100	48.6	134.8	13,500	51.6	131.2	14,100	140
145	43.4		131.5	12,200	46.3	129.3	12,600	49.2	125.6	13,100	145
150	41.1		125.7	11,400	43.9	123.4	11,800	46.8	119.5	12,200	150
155	38.6		119.3	10,600	41.4	116.9	10,900	44.2	112.7	11,300	155
160	36.0		112.3	9,900	38.7	109.7	10,200				160
165	33.2		104.5	9,200	35.8	101.7	9,500				165
170	30.1		95.8	8,600	32.6	92.7	8,800				170
175	26.7		85.8	7,900							175
180	22.8		74.0	7,400							180

MLC165-1 S-1

ASME B30.5



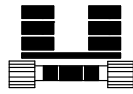
101,400 lb
+
0 lb



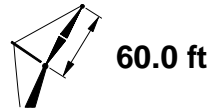
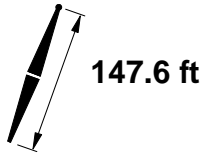
ft	5°			15°			25°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50	78.4	199.1	35,800							50
55	76.9	197.8	35,100							55
60	75.4	196.4	34,500	78.5	194.9	32,000				60
65	73.9	194.9	33,800	77.0	193.4	31,400				65
70	72.4	193.2	33,100	75.4	191.7	30,900	78.8	188.6	25,600	70
75	70.9	191.4	32,400	73.9	189.8	30,300	77.3	186.7	24,600	75
80	69.3	189.4	31,700	72.3	187.8	29,800	75.7	184.7	23,700	80
85	67.7	187.3	29,900	70.7	185.7	29,400	74.0	182.6	22,800	85
90	66.1	185.0	27,400	69.1	183.3	28,500	72.4	180.2	22,100	90
95	64.5	182.5	25,100	67.5	180.8	26,100	70.7	177.7	21,300	95
100	62.9	179.8	23,200	65.8	178.2	24,100	69.0	175.0	20,700	100
105	61.2	177.0	21,400	64.1	175.3	22,200	67.3	172.1	20,000	105
110	59.5	173.9	19,800	62.4	172.2	20,600	65.6	169.0	19,500	110
115	57.8	170.7	18,300	60.7	168.9	19,000	63.8	165.6	18,900	115
120	56.0	167.2	17,000	58.9	165.4	17,700	62.0	162.1	18,400	120
125	54.2	163.5	15,800	57.1	161.6	16,400	60.1	158.3	17,100	125
130	52.3	159.5	14,700	55.2	157.6	15,200	58.2	154.2	15,900	130
135	50.4	155.3	13,600	53.3	153.3	14,200	56.2	149.8	14,800	135
140	48.5	150.7	12,700	51.3	148.7	13,200	54.2	145.1	13,700	140
145	46.5	145.9	11,800	49.2	143.8	12,300	52.1	140.1	12,800	145
150	44.4	140.6	11,000	47.1	138.5	11,400	49.9	134.7	11,900	150
155	42.2	135.0	10,200	44.9	132.7	10,600	47.6	128.8	11,000	155
160	39.9	128.9	9,500	42.5	126.5	9,800	45.2	122.4	10,200	160
165	37.5	122.3	8,800	40.1	119.7	9,100				165
170	34.9	115.0	8,100	37.5	112.3	8,400				170
175	32.2	106.9	7,500	34.6	104.0	7,800				175
180	29.2	97.9	7,000	31.5	94.7	7,200				180
185	25.9	87.6	6,400							185
190	22.0	75.4	5,900							190

MLC165-1 S-1

ASME B30.5



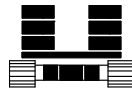
101,400 lb
+
0 lb



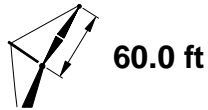
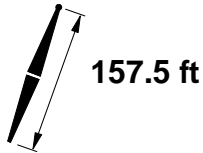
	5°			15°			25°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50	79.0	209.2	35,700							50
55	77.6	208.0	35,200							55
60	76.2	206.7	34,500	79.1	205.1	32,000				60
65	74.7	205.2	33,900	77.6	203.7	31,500				65
70	73.3	203.6	33,300	76.2	202.1	31,000	79.4	198.9	26,000	70
75	71.8	201.9	32,600	74.7	200.3	30,500	77.9	197.1	25,000	75
80	70.3	200.0	32,000	73.2	198.4	30,000	76.4	195.3	24,100	80
85	68.8	198.0	30,000	71.7	196.4	29,600	74.9	193.2	23,300	85
90	67.3	195.8	27,400	70.2	194.2	28,500	73.3	191.0	22,500	90
95	65.8	193.5	25,200	68.7	191.8	26,200	71.8	188.6	21,800	95
100	64.3	191.0	23,200	67.1	189.3	24,100	70.2	186.1	21,100	100
105	62.7	188.3	21,400	65.5	186.6	22,300	68.6	183.4	20,500	105
110	61.1	185.5	19,800	63.9	183.7	20,600	66.9	180.4	19,900	110
115	59.5	182.4	18,400	62.3	180.6	19,100	65.3	177.3	19,400	115
120	57.8	179.2	17,100	60.6	177.4	17,700	63.6	174.0	18,500	120
125	56.2	175.7	15,800	58.9	173.9	16,500	61.8	170.5	17,200	125
130	54.5	172.1	14,700	57.2	170.2	15,300	60.1	166.7	16,000	130
135	52.7	168.1	13,700	55.4	166.2	14,300	58.3	162.7	14,900	135
140	50.9	164.0	12,700	53.6	162.0	13,300	56.4	158.4	13,900	140
145	49.1	159.5	11,900	51.7	157.5	12,400	54.5	153.8	12,900	145
150	47.2	154.8	11,000	49.8	152.7	11,500	52.5	148.9	12,000	150
155	45.2	149.7	10,300	47.8	147.5	10,700	50.5	143.7	11,200	155
160	43.1	144.3	9,600	45.7	142.0	9,900	48.3	138.0	10,400	160
165	41.0	138.4	8,900	43.6	136.0	9,200	46.1	131.9	9,600	165
170	38.8	132.1	8,300	41.3	129.6	8,600	43.7	125.3	8,900	170
175	36.4	125.2	7,700	38.9	122.5	7,900				175
180	33.9	117.6	7,100	36.3	114.8	7,300				180
185	31.3	109.3	6,500	33.6	106.2	6,800				185
190	28.3	100.0	6,000							190
195	25.1	89.3	5,500							195
200	21.3	76.6	5,100							200

MLC165-1 S-1

ASME B30.5



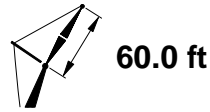
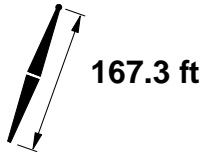
101,400 lb
+
0 lb



ft	5°			15°			25°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50	79.5	219.2	35,600							50
55	78.2	218.1	35,000							55
60	76.8	216.9	34,500	79.6	215.3	32,000				60
65	75.4	215.5	33,900	78.2	213.9	31,500				65
70	74.1	214.0	33,300	76.8	212.4	31,000				70
75	72.7	212.3	32,700	75.4	210.7	30,600	78.5	207.5	25,400	75
80	71.3	210.6	32,100	74.0	208.9	30,100	77.1	205.7	24,500	80
85	69.9	208.6	29,600	72.6	207.0	29,700	75.6	203.8	23,700	85
90	68.4	206.6	27,100	71.2	204.9	28,200	74.2	201.7	22,900	90
95	67.0	204.4	24,800	69.7	202.7	25,900	72.7	199.4	22,200	95
100	65.5	202.0	22,800	68.2	200.3	23,800	71.2	197.0	21,500	100
105	64.1	199.5	21,100	66.7	197.8	22,000	69.7	194.5	20,900	105
110	62.6	196.8	19,400	65.2	195.0	20,300	68.1	191.7	20,300	110
115	61.0	193.9	18,000	63.7	192.2	18,800	66.6	188.8	19,700	115
120	59.5	190.9	16,700	62.1	189.1	17,400	65.0	185.7	18,200	120
125	57.9	187.7	15,400	60.6	185.8	16,100	63.4	182.4	16,900	125
130	56.3	184.2	14,300	58.9	182.4	15,000	61.7	178.9	15,700	130
135	54.7	180.6	13,300	57.3	178.7	13,900	60.0	175.2	14,600	135
140	53.0	176.7	12,300	55.6	174.8	12,900	58.3	171.2	13,500	140
145	51.3	172.6	11,500	53.9	170.6	12,000	56.6	167.0	12,600	145
150	49.6	168.3	10,600	52.1	166.2	11,100	54.7	162.5	11,700	150
155	47.8	163.6	9,900	50.3	161.5	10,300	52.9	157.7	10,800	155
160	45.9	158.7	9,200	48.4	156.5	9,600	51.0	152.6	10,100	160
165	44.0	153.4	8,500	46.5	151.1	8,900	49.0	147.1	9,300	165
170	42.0	147.7	7,800	44.4	145.4	8,200	46.9	141.3	8,600	170
175	39.9	141.7	7,300	42.3	139.2	7,600	44.7	134.9	7,900	175
180	37.8	135.1	6,700	40.1	132.5	7,000				180
185	35.5	128.0	6,200	37.8	125.2	6,400				185
190	33.0	120.2	5,600	35.3	117.2	5,900				190
195	30.4	111.6	5,200	32.6	108.4	5,400				195
200	27.5	102.0	4,700							200
205	24.4	90.9	4,300							205

MLC165-1 S-1

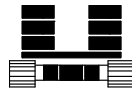
ASME B30.5



	5°			15°			25°				
	ft	°	ft	lb	ft	°	ft	lb	ft		
55	78.7		228.2	34,900						55	
60	77.4		227.0	34,300						60	
65	76.1		225.7	33,800	78.7	224.1	31,500			65	
70	74.8		224.3	33,300	77.4	222.6	31,100			70	
75	73.4		222.7	32,800	76.1	221.1	30,600	79.0	217.8	25,700	75
80	72.1		221.0	32,100	74.8	219.4	30,200	77.7	216.1	24,900	80
85	70.8		219.2	29,300	73.4	217.5	29,800	76.3	214.2	24,000	85
90	69.4		217.2	26,700	72.0	215.6	27,900	74.9	212.3	23,300	90
95	68.0		215.1	24,500	70.7	213.4	25,600	73.5	210.1	22,600	95
100	66.7		212.9	22,500	69.3	211.2	23,500	72.1	207.9	21,900	100
105	65.3		210.5	20,700	67.9	208.8	21,700	70.7	205.4	21,300	105
110	63.9		208.0	19,100	66.4	206.2	20,000	69.2	202.9	20,700	110
115	62.4		205.3	17,600	65.0	203.5	18,500	67.7	200.1	19,400	115
120	61.0		202.4	16,300	63.5	200.6	17,100	66.2	197.2	18,000	120
125	59.5		199.4	15,100	62.0	197.5	15,800	64.7	194.1	16,700	125
130	58.0		196.2	14,000	60.5	194.3	14,700	63.2	190.8	15,400	130
135	56.5		192.8	12,900	59.0	190.9	13,600	61.6	187.3	14,300	135
140	54.9		189.1	12,000	57.4	187.2	12,600	60.0	183.7	13,300	140
145	53.3		185.3	11,100	55.8	183.4	11,700	58.4	179.7	12,300	145
150	51.7		181.3	10,300	54.2	179.3	10,800	56.7	175.6	11,400	150
155	50.0		177.0	9,500	52.5	174.9	10,000	55.0	171.2	10,600	155
160	48.3		172.5	8,800	50.7	170.3	9,300	53.2	166.5	9,800	160
165	46.6		167.6	8,100	49.0	165.4	8,600	51.4	161.5	9,000	165
170	44.8		162.5	7,500	47.1	160.2	7,900	49.5	156.2	8,300	170
175	42.9		157.0	6,900	45.2	154.6	7,300	47.6	150.5	7,700	175
180	41.0		151.1	6,300	43.3	148.7	6,700	45.5	144.4	7,100	180
185	38.9		144.8	5,800	41.2	142.3	6,100	43.4	137.8	6,500	185
190	36.8		138.1	5,300	39.0	135.4	5,600				190
195	34.6		130.7	4,800	36.7	127.8	5,100				195
200	32.2		122.7	4,300	34.3	119.6	4,600				200
205					31.6	110.5	4,000				205

MLC165-1 S-1

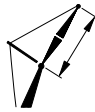
ASME B30.5



101,400 lb
+
0 lb



177.2 ft

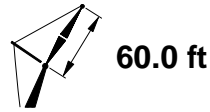
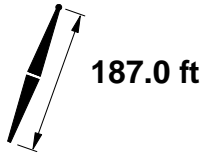


60.0 ft

	5°			15°			25°			
	ft	°	ft	lb	ft	°	ft	lb	ft	
55	79.2		238.3							55
60	77.9		237.2							60
65	76.7		235.9							65
70	75.4		234.5	79.2	234.3	31,400				70
75	74.2		233.0	78.0	232.9	31,000				75
80	72.9		231.4	76.7	231.4	30,600	79.5	228.1	26,100	80
85	71.6		229.7	75.4	229.8	30,200	78.2	226.4	25,200	85
90	70.3		227.8	74.1	228.0	29,800	76.9	224.7	24,400	90
95	69.0		225.8	72.8	226.1	27,600	75.6	222.8	23,700	95
100	67.7		223.7	71.5	224.1	25,300	74.3	220.8	23,000	100
105	66.4		221.4	70.2	222.0	23,200	72.9	218.6	22,300	105
110	65.0		219.0	68.9	219.7	21,300	71.6	216.3	21,700	110
115	63.7		216.5	67.5	217.3	19,700	70.2	213.9	20,700	115
120	62.3		213.7	66.1	214.7	18,100	68.8	211.3	19,100	120
125	60.9		210.9	64.7	211.9	16,700	67.4	208.5	17,700	125
130	59.5		207.9	63.3	209.1	15,500	65.9	205.6	16,400	130
135	58.1		204.6	61.9	206.0	14,300	64.5	202.5	15,100	135
140	56.6		201.3	60.5	202.8	13,200	63.0	199.2	14,000	140
145	55.1		197.7	59.0	199.3	12,200	61.5	195.8	13,000	145
150	53.6		193.9	57.5	195.7	11,300	60.0	192.1	12,000	150
155	52.0		189.9	56.0	191.9	10,500	58.4	188.3	11,100	155
160	50.5		185.7	54.4	187.9	9,700	56.8	184.2	10,300	160
165	48.8		181.2	52.8	183.6	8,900	55.2	179.8	9,500	165
170	47.2		176.5	51.2	179.1	8,200	53.5	175.2	8,700	170
175	45.5		171.5	49.5	174.3	7,500	51.8	170.4	8,000	175
180	43.7		166.2	47.7	169.2	6,900	50.0	165.2	7,400	180
185	41.9		160.5	45.9	163.8	6,300	48.2	159.7	6,700	185
190	40.0		154.4	44.1	158.0	5,800	46.3	153.8	6,100	190
195	38.0		147.9	42.2	151.9	5,200	44.3	147.4	5,600	195
200				40.1	145.3	4,700				200
				38.0	138.1	4,100				200

MLC165-1 S-1

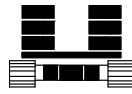
ASME B30.5



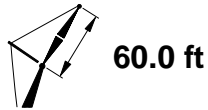
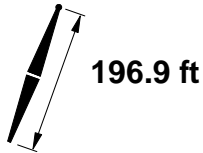
	5°			15°			25°			
	ft	°	ft	lb	ft	°	ft	lb	ft	
55	79.6		248.4	34,400						55
60	78.4		247.3	33,900						60
65	77.2		246.1	33,500	79.7		244.4	31,300		65
70	76.0		244.7	33,100	78.5		243.1	30,900		70
75	74.8		243.3	32,600	77.3		241.6	30,500		75
80	73.6		241.8	31,500	76.0		240.1	30,200	78.7	80
85	72.4		240.1	28,600	74.8		238.4	29,800	77.5	85
90	71.1		238.3	26,100	73.6		236.6	27,400	76.2	90
95	69.9		236.4	23,800	72.3		234.7	25,000	74.9	95
100	68.6		234.4	21,800	71.0		232.7	22,900	73.7	100
105	67.4		232.2	20,000	69.8		230.5	21,100	72.4	105
110	66.1		229.9	18,400	68.5		228.2	19,400	71.1	110
115	64.8		227.5	16,900	67.2		225.7	17,900	69.7	115
120	63.5		224.9	15,600	65.9		223.1	16,500	68.4	120
125	62.2		222.2	14,400	64.5		220.4	15,200	67.0	125
130	60.8		219.4	13,300	63.2		217.5	14,000	65.7	130
135	59.5		216.3	12,200	61.8		214.4	13,000	64.3	135
140	58.1		213.1	11,300	60.4		211.2	12,000	62.9	140
145	56.7		209.8	10,400	59.0		207.8	11,100	61.4	145
150	55.3		206.2	9,600	57.6		204.2	10,200	60.0	150
155	53.8		202.5	8,800	56.1		200.5	9,400	58.5	155
160	52.4		198.5	8,100	54.6		196.5	8,600	57.0	160
165	50.9		194.4	7,400	53.1		192.3	7,900	55.4	165
170	49.3		190.0	6,800	51.5		187.8	7,300	53.8	170
175	47.7		185.4	6,200	49.9		183.1	6,700	52.2	175
180	46.1		180.4	5,600	48.3		178.2	6,100	50.5	180
185	44.4		175.3	5,100	46.6		172.9	5,500	48.7	185
190	42.7		169.7	4,500	44.8		167.3	4,900	46.9	190
195					43.0		161.4	4,300	45.1	195
200									43.1	200

MLC165-1 S-1

ASME B30.5



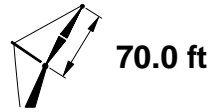
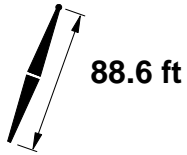
101,400 lb
+
0 lb



	5°			15°			25°				
	ft	°	ft	lb	ft	°	ft	lb	ft		
60	78.9		257.3	33,700						60	
65	77.7		256.2	33,200						65	
70	76.6		254.9	32,700	78.9	253.3	30,800			70	
75	75.4		253.6	32,400	77.8	251.9	30,400			75	
80	74.2		252.1	31,100	76.6	250.4	30,100	79.2	247.0	25,800	80
85	73.1		250.5	28,200	75.4	248.8	29,700	78.0	245.4	25,100	85
90	71.9		248.8	25,700	74.2	247.1	27,000	76.8	243.7	24,300	90
95	70.7		247.0	23,400	73.0	245.2	24,700	75.6	241.8	23,600	95
100	69.5		245.0	21,400	71.8	243.3	22,600	74.3	239.8	23,000	100
105	68.3		243.0	19,600	70.6	241.2	20,700	73.1	237.8	22,000	105
110	67.1		240.8	18,000	69.4	239.0	19,100	71.9	235.5	20,200	110
115	65.9		238.5	16,600	68.1	236.7	17,500	70.6	233.2	18,600	115
120	64.6		236.0	15,200	66.9	234.2	16,100	69.3	230.7	17,200	120
125	63.4		233.4	14,000	65.6	231.6	14,900	68.0	228.1	15,800	125
130	62.1		230.7	12,900	64.3	228.9	13,700	66.7	225.3	14,600	130
135	60.8		227.8	11,800	63.0	226.0	12,600	65.4	222.4	13,500	135
140	59.5		224.8	10,900	61.7	222.9	11,600	64.1	219.3	12,400	140
145	58.2		221.6	10,000	60.4	219.7	10,700	62.7	216.1	11,500	145
150	56.8		218.3	9,200	59.0	216.3	9,800	61.4	212.6	10,600	150
155	55.5		214.8	8,400	57.7	212.8	9,000	59.9	209.1	9,700	155
160	54.1		211.0	7,700	56.2	209.0	8,300	58.5	205.3	8,900	160
165	52.7		207.1	7,000	54.8	205.1	7,600	57.1	201.3	8,200	165
170	51.2		203.0	6,400	53.4	200.9	6,900	55.6	197.1	7,500	170
175	49.7		198.7	5,800	51.9	196.6	6,300	54.1	192.6	6,800	175
180	48.2		194.2	5,100	50.3	191.9	5,700	52.5	187.9	6,200	180
185	46.7		189.4	4,500	48.8	187.1	5,000	50.9	183.0	5,600	185
190					47.2	181.9	4,400	49.2	177.8	4,900	190
195								47.5	172.2	4,300	195

MLC165-1 S-1

ASME B30.5



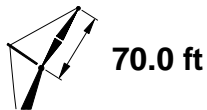
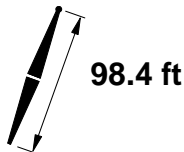
	5°			15°			25°				
	ft	°	ft	lb	ft	°	ft	lb	ft		
40	79.1		161.2	31,600						40	
45	77.2		160.0	30,600						45	
50	75.3		158.6	29,600						50	
55	73.4		157.0	28,800	78.3	156.0	26,400			55	
60	71.5		155.2	27,900	76.4	154.3	25,800			60	
65	69.6		153.3	27,200	74.4	152.3	25,200	79.1	149.3	22,000	65
70	67.6		151.1	26,400	72.4	150.2	24,600	77.1	147.1	20,800	70
75	65.6		148.8	25,700	70.4	147.9	24,100	75.0	144.7	19,800	75
80	63.6		146.2	25,000	68.4	145.3	23,500	72.9	142.0	18,900	80
85	61.5		143.4	24,300	66.3	142.5	23,100	70.8	139.2	18,000	85
90	59.4		140.3	23,600	64.2	139.4	22,500	68.6	136.0	17,200	90
95	57.2		137.0	23,100	62.0	136.1	21,900	66.3	132.6	16,500	95
100	55.0		133.3	22,400	59.7	132.5	20,800	64.0	128.9	15,900	100
105	52.7		129.4	21,900	57.4	128.6	19,900	61.6	124.9	15,300	105
110	50.3		125.2	21,400	55.0	124.3	19,000	59.2	120.5	14,800	110
115	47.8		120.5	20,500	52.5	119.7	18,200	56.6	115.7	14,300	115
120	45.3		115.4	19,200	49.9	114.6	17,500	53.9	110.4	13,800	120
125	42.6		109.9	18,000	47.2	109.1	16,800	51.1	104.6	13,400	125
130	39.7		103.7	16,800	44.3	102.9	16,200	48.0	98.2	13,000	130
135	36.6		96.9	15,800	41.3	96.1	15,700	44.8	91.0	12,700	135
140	33.3		89.2	14,900	37.9	88.4	15,200				140
145	29.7		80.4	14,000	34.2	79.5	14,300				145
150	25.5		70.0	13,100							150
155	20.4		57.0	12,300							155

MLC165-1 S-1

ASME B30.5



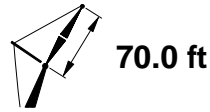
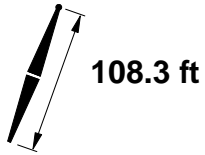
101,400 lb
+
0 lb



ft	5°			15°			25°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45	78.0	170.2	30,800							45
50	76.2	168.8	29,900							50
55	74.4	167.4	29,100	79.0	166.3	26,600				55
60	72.6	165.7	28,200	77.2	164.7	26,000				60
65	70.8	163.9	27,500	75.4	162.9	25,400				65
70	69.0	161.9	26,800	73.5	160.9	24,800	77.9	157.6	21,300	70
75	67.1	159.7	26,100	71.7	158.7	24,300	76.0	155.4	20,300	75
80	65.2	157.3	25,400	69.8	156.3	23,800	74.0	152.9	19,400	80
85	63.3	154.7	24,800	67.8	153.7	23,400	72.1	150.3	18,500	85
90	61.4	151.8	24,200	65.9	150.9	22,900	70.1	147.4	17,800	90
95	59.4	148.8	23,500	63.9	147.8	22,400	68.0	144.3	17,100	95
100	57.3	145.5	22,900	61.8	144.5	21,800	65.9	140.9	16,400	100
105	55.2	141.9	22,500	59.7	141.0	20,800	63.7	137.2	15,800	105
110	53.1	138.0	21,500	57.5	137.1	19,900	61.5	133.3	15,300	110
115	50.9	133.9	20,100	55.3	133.0	19,100	59.2	129.0	14,800	115
120	48.6	129.3	18,700	53.0	128.4	18,400	56.8	124.3	14,300	120
125	46.2	124.4	17,500	50.6	123.5	17,700	54.3	119.2	13,900	125
130	43.7	119.1	16,400	48.1	118.2	16,900	51.7	113.7	13,500	130
135	41.1	113.3	15,400	45.5	112.4	15,800	48.9	107.6	13,100	135
140	38.3	106.8	14,400	42.7	105.9	14,800	46.0	100.8	12,800	140
145	35.4	99.7	13,500	39.7	98.8	13,900	42.8	93.2	12,500	145
150	32.1	91.7	12,700	36.4	90.7	13,000				150
155	28.6	82.5	11,900	32.8	81.5	12,200				155
160	24.5	71.6	11,200							160
165	19.6	58.0	10,500							165

MLC165-1 S-1

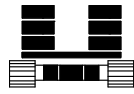
ASME B30.5



	5°			15°			25°			
	ft	°	ft	lb	ft	°	ft	lb	ft	
45	78.6		180.3	31,000						45
50	77.0		179.0	30,100						50
55	75.3		177.6	29,300	79.7		176.5	26,700		55
60	73.6		176.1	28,500	78.0		175.0	26,100		60
65	71.9		174.4	27,800	76.3		173.3	25,600		65
70	70.2		172.5	27,100	74.5		171.4	25,100	78.6	70
75	68.5		170.4	26,400	72.8		169.4	24,600	76.8	75
80	66.7		168.2	25,800	71.0		167.1	24,100	75.0	80
85	64.9		165.8	25,200	69.2		164.7	23,600	73.2	85
90	63.1		163.1	24,600	67.4		162.1	23,200	71.3	90
95	61.3		160.3	24,000	65.5		159.3	22,800	69.4	95
100	59.4		157.2	23,400	63.6		156.3	22,300	67.5	100
105	57.5		154.0	22,800	61.7		153.0	21,700	65.5	105
110	55.5		150.4	21,200	59.7		149.5	20,800	63.5	110
115	53.5		146.6	19,800	57.7		145.7	20,000	61.4	115
120	51.4		142.5	18,400	55.6		141.6	19,100	59.2	120
125	49.3		138.1	17,200	53.4		137.2	17,900	57.0	125
130	47.0		133.4	16,100	51.2		132.4	16,700	54.7	130
135	44.7		128.2	15,100	48.9		127.2	15,600	52.3	135
140	42.3		122.6	14,100	46.4		121.6	14,600	49.7	140
145	39.8		116.5	13,300	43.9		115.5	13,700	47.0	145
150	37.1		109.8	12,400	41.1		108.8	12,800	44.2	150
155	34.2		102.4	11,700	38.2		101.3	12,000		155
160	31.1		94.0	10,900	35.1		92.9	11,200		160
165	27.6		84.4	10,300	31.5		83.3	10,500		165
170	23.6		73.2	9,600						170

MLC165-1 S-1

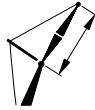
ASME B30.5



101,400 lb
+
0 lb



118.1 ft



70.0 ft

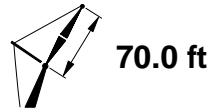
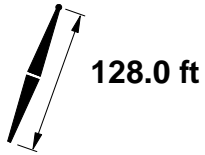
ft	5°			15°			25°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45	79.3	190.4	31,000							45
50	77.7	189.2	30,200							50
55	76.1	187.9	29,500							55
60	74.5	186.4	28,800	78.6	185.3	26,200				60
65	72.9	184.8	28,100	77.0	183.6	25,800				65
70	71.3	183.0	27,400	75.4	181.9	25,300	79.3	178.5	22,100	70
75	69.7	181.1	26,800	73.7	180.0	24,800	77.6	176.5	21,100	75
80	68.0	179.0	26,100	72.1	177.9	24,300	75.9	174.4	20,200	80
85	66.3	176.7	25,500	70.4	175.6	23,900	74.2	172.1	19,400	85
90	64.6	174.3	25,000	68.7	173.2	23,400	72.4	169.6	18,700	90
95	62.9	171.6	24,400	66.9	170.5	23,100	70.7	166.9	18,000	95
100	61.2	168.8	23,800	65.2	167.7	22,600	68.9	164.0	17,300	100
105	59.4	165.7	22,400	63.4	164.7	22,300	67.0	160.9	16,800	105
110	57.6	162.5	20,800	61.6	161.4	21,600	65.1	157.5	16,200	110
115	55.7	159.0	19,300	59.7	157.9	20,100	63.2	153.9	15,700	115
120	53.8	155.2	18,000	57.8	154.2	18,800	61.3	150.1	15,200	120
125	51.8	151.2	16,800	55.8	150.2	17,500	59.2	146.0	14,800	125
130	49.8	146.9	15,700	53.8	145.8	16,300	57.1	141.5	14,400	130
135	47.8	142.2	14,700	51.7	141.2	15,300	55.0	136.7	14,000	135
140	45.6	137.2	13,700	49.5	136.2	14,300	52.7	131.5	13,700	140
145	43.4	131.8	12,800	47.2	130.8	13,300	50.4	125.9	13,300	145
150	41.0	126.0	12,000	44.9	125.0	12,500	47.9	119.8	12,900	150
155	38.6	119.6	11,200	42.4	118.6	11,700	45.3	113.1	12,000	155
160	35.9	112.7	10,500	39.8	111.6	10,900	42.5	105.7	11,200	160
165	33.1	104.9	9,800	36.9	103.8	10,200				165
170	30.1	96.2	9,200	33.8	95.1	9,500				170
175	26.7	86.3	8,600	30.4	85.0	8,800				175
180	22.8	74.6	8,000							180

MLC165-1 S-1

ASME B30.5



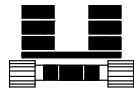
101,400 lb
+
0 lb



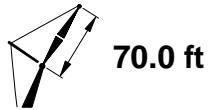
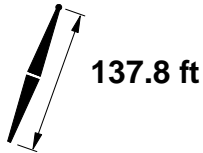
	5°			15°			25°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50	78.3	199.3	30,400							50
55	76.8	198.1	29,600							55
60	75.3	196.7	28,900	79.2	195.5	26,400				60
65	73.8	195.1	28,200	77.7	194.0	25,900				65
70	72.3	193.5	27,600	76.2	192.3	25,400				70
75	70.7	191.6	27,000	74.6	190.5	24,900	78.3	187.0	21,500	75
80	69.2	189.7	26,400	73.0	188.5	24,500	76.7	184.9	20,600	80
85	67.6	187.5	25,800	71.5	186.4	24,100	75.1	182.8	19,800	85
90	66.0	185.2	25,300	69.8	184.1	23,600	73.4	180.4	19,100	90
95	64.4	182.7	24,700	68.2	181.6	23,200	71.8	177.9	18,400	95
100	62.8	180.1	23,800	66.6	179.0	22,900	70.1	175.2	17,800	100
105	61.1	177.2	22,000	64.9	176.1	22,500	68.4	172.3	17,200	105
110	59.4	174.2	20,400	63.2	173.1	21,300	66.6	169.2	16,600	110
115	57.7	171.0	19,000	61.4	169.9	19,800	64.8	165.9	16,100	115
120	55.9	167.5	17,700	59.7	166.4	18,400	63.0	162.3	15,600	120
125	54.1	163.8	16,400	57.9	162.7	17,200	61.2	158.5	15,200	125
130	52.3	159.8	15,300	56.0	158.7	16,000	59.2	154.4	14,800	130
135	50.4	155.6	14,300	54.1	154.5	14,900	57.3	150.1	14,400	135
140	48.4	151.0	13,400	52.1	150.0	14,000	55.2	145.4	14,000	140
145	46.4	146.2	12,500	50.1	145.1	13,000	53.1	140.4	13,500	145
150	44.3	141.0	11,700	48.0	139.9	12,200	51.0	135.0	12,600	150
155	42.1	135.4	10,900	45.8	134.2	11,400	48.7	129.1	11,800	155
160	39.8	129.3	10,200	43.5	128.1	10,600	46.3	122.7	11,000	160
165	37.4	122.7	9,500	41.1	121.5	9,900	43.7	115.8	10,200	165
170	34.9	115.4	8,900	38.5	114.2	9,200				170
175	32.1	107.4	8,300	35.7	106.2	8,600				175
180	29.2	98.4	7,700	32.7	97.1	8,000				180
185	25.9	88.1	7,200							185
190	22.1	76.0	6,600							190

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ASME B30.5



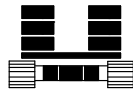
101,400 lb
+
0 lb



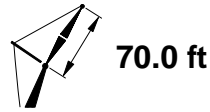
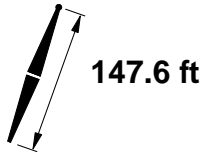
ft	5°			15°			25°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50	78.9	209.4	30,400							50
55	77.5	208.2	29,700							55
60	76.0	206.9	29,000							60
65	74.6	205.5	28,400	78.3	204.2	25,900				65
70	73.2	203.9	27,800	76.8	202.6	25,500				70
75	71.7	202.1	27,200	75.4	200.9	25,100	78.9	197.3	21,800	75
80	70.2	200.3	26,600	73.9	199.1	24,600	77.4	195.4	21,000	80
85	68.7	198.2	26,100	72.4	197.1	24,200	75.8	193.4	20,200	85
90	67.2	196.1	25,500	70.9	194.9	23,800	74.3	191.2	19,500	90
95	65.7	193.7	25,000	69.4	192.6	23,400	72.7	188.8	18,800	95
100	64.2	191.2	23,400	67.8	190.1	23,100	71.2	186.3	18,200	100
105	62.6	188.6	21,600	66.2	187.4	22,700	69.5	183.5	17,600	105
110	61.0	185.7	20,000	64.6	184.6	21,000	67.9	180.6	17,000	110
115	59.4	182.7	18,600	63.0	181.5	19,500	66.3	177.5	16,500	115
120	57.8	179.4	17,200	61.4	178.3	18,100	64.6	174.2	16,000	120
125	56.1	176.0	16,000	59.7	174.9	16,800	62.8	170.7	15,600	125
130	54.4	172.3	14,900	57.9	171.2	15,700	61.1	166.9	15,200	130
135	52.6	168.4	13,900	56.2	167.3	14,600	59.3	162.9	14,800	135
140	50.8	164.3	12,900	54.4	163.1	13,600	57.4	158.7	14,200	140
145	49.0	159.8	12,100	52.5	158.7	12,700	55.5	154.1	13,200	145
150	47.1	155.1	11,200	50.6	154.0	11,800	53.5	149.2	12,300	150
155	45.1	150.0	10,500	48.6	148.9	11,000	51.5	143.9	11,400	155
160	43.1	144.6	9,800	46.6	143.4	10,200	49.3	138.3	10,600	160
165	41.0	138.7	9,100	44.4	137.6	9,500	47.1	132.2	9,900	165
170	38.7	132.4	8,400	42.2	131.2	8,900	44.8	125.5	9,200	170
175	36.4	125.6	7,800	39.8	124.3	8,200	42.3	118.3	8,500	175
180	33.9	118.1	7,300	37.3	116.8	7,600				180
185	31.2	109.8	6,700	34.6	108.4	7,000				185
190	28.3	100.5	6,200	31.6	99.1	6,500				190
195	25.1	89.9	5,700							195
200	21.4	77.3	5,300							200

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ASME B30.5



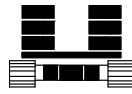
101,400 lb
+
0 lb



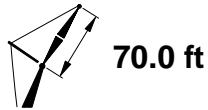
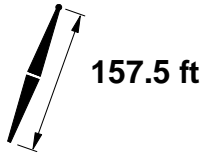
ft	5°			15°			25°			ft
	ft	lb	ft	ft	lb	ft	lb	ft		
50	79.4	219.5	30,400						50	
55	78.0	218.3	29,700						55	
60	76.7	217.1	29,100						60	
65	75.3	215.7	28,500	78.9	214.4	26,000			65	
70	73.9	214.2	27,900	77.5	212.9	25,500			70	
75	72.6	212.6	27,300	76.1	211.3	25,100	79.4	207.7	22,200	75
80	71.2	210.8	26,800	74.7	209.5	24,800	78.0	205.9	21,300	80
85	69.7	208.9	26,300	73.2	207.6	24,400	76.5	203.9	20,600	85
90	68.3	206.8	25,700	71.8	205.6	24,000	75.1	201.8	19,800	90
95	66.9	204.6	25,300	70.4	203.4	23,600	73.6	199.6	19,200	95
100	65.4	202.2	23,400	68.9	201.0	23,300	72.1	197.2	18,500	100
105	64.0	199.7	21,700	67.4	198.5	22,700	70.6	194.6	18,000	105
110	62.5	197.0	20,100	65.9	195.9	21,000	69.1	191.9	17,400	110
115	60.9	194.2	18,600	64.4	193.0	19,500	67.5	189.0	16,900	115
120	59.4	191.2	17,300	62.8	190.0	18,100	65.9	185.9	16,400	120
125	57.8	187.9	16,100	61.3	186.8	16,900	64.3	182.6	16,000	125
130	56.2	184.5	15,000	59.7	183.3	15,700	62.7	179.1	15,600	130
135	54.6	180.9	13,900	58.0	179.7	14,600	61.0	175.4	15,200	135
140	52.9	177.0	13,000	56.3	175.9	13,600	59.3	171.4	14,300	140
145	51.2	172.9	12,100	54.6	171.8	12,700	57.5	167.2	13,300	145
150	49.5	168.6	11,300	52.9	167.4	11,900	55.7	162.7	12,400	150
155	47.7	163.9	10,500	51.1	162.8	11,100	53.8	157.9	11,500	155
160	45.9	159.0	9,800	49.2	157.8	10,300	51.9	152.8	10,700	160
165	43.9	153.7	9,100	47.3	152.5	9,600	49.9	147.4	10,000	165
170	42.0	148.1	8,500	45.3	146.9	8,900	47.8	141.5	9,300	170
175	39.9	142.0	7,900	43.2	140.8	8,300	45.6	135.1	8,600	175
180	37.7	135.5	7,400	41.0	134.2	7,700	43.4	128.3	8,000	180
185	35.4	128.4	6,800	38.7	127.1	7,200				185
190	33.0	120.6	6,300	36.2	119.3	6,600				190
195	30.4	112.1	5,800	33.6	110.6	6,100				195
200	27.5	102.5	5,400	30.7	101.0	5,600				200
205	24.4	91.5	4,900							205
210	20.7	78.6	4,500							210

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ASME B30.5



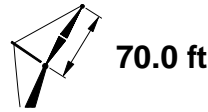
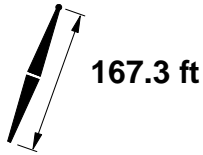
101,400 lb
+
0 lb



ft	5°			15°			25°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55	78.6	228.4	29,700							55
60	77.3	227.3	29,200							60
65	76.0	225.9	28,600	79.4	224.6	26,000				65
70	74.7	224.5	28,000	78.0	223.2	25,600				70
75	73.3	222.9	27,400	76.7	221.6	25,200				75
80	72.0	221.2	26,900	75.4	220.0	24,800	78.6	216.2	21,700	80
85	70.7	219.4	26,400	74.0	218.2	24,500	77.2	214.4	20,900	85
90	69.3	217.5	25,900	72.7	216.2	24,100	75.8	212.4	20,200	90
95	67.9	215.4	25,000	71.3	214.1	23,800	74.4	210.3	19,500	95
100	66.6	213.1	23,000	69.9	211.9	23,400	73.0	208.0	18,900	100
105	65.2	210.8	21,300	68.5	209.5	22,400	71.5	205.6	18,300	105
110	63.8	208.2	19,700	67.1	207.0	20,700	70.1	203.0	17,800	110
115	62.3	205.5	18,200	65.6	204.3	19,200	68.6	200.3	17,300	115
120	60.9	202.7	16,900	64.2	201.5	17,800	67.1	197.3	16,800	120
125	59.4	199.6	15,700	62.7	198.4	16,500	65.6	194.3	16,300	125
130	57.9	196.4	14,500	61.2	195.2	15,400	64.1	191.0	15,900	130
135	56.4	193.0	13,500	59.6	191.8	14,300	62.5	187.5	15,000	135
140	54.8	189.4	12,600	58.1	188.2	13,300	60.9	183.8	13,900	140
145	53.2	185.6	11,700	56.5	184.4	12,400	59.3	179.9	13,000	145
150	51.6	181.6	10,900	54.9	180.4	11,500	57.6	175.8	12,100	150
155	50.0	177.3	10,100	53.2	176.1	10,700	55.9	171.4	11,200	155
160	48.3	172.8	9,400	51.5	171.5	10,000	54.1	166.7	10,400	160
165	46.5	167.9	8,700	49.7	166.7	9,200	52.3	161.7	9,700	165
170	44.7	162.8	8,100	47.9	161.6	8,600	50.4	156.4	9,000	170
175	42.8	157.3	7,500	46.0	156.1	8,000	48.5	150.7	8,300	175
180	40.9	151.5	6,900	44.1	150.2	7,400	46.4	144.6	7,700	180
185	38.9	145.2	6,400	42.0	143.9	6,800	44.3	138.0	7,100	185
190	36.8	138.4	5,900	39.9	137.1	6,300	42.1	130.9	6,500	190
195	34.5	131.1	5,400	37.6	129.7	5,800				195
200	32.1	123.1	5,000	35.2	121.7	5,300				200
205	29.6	114.3	4,500	32.6	112.8	4,800				205
210	26.8	104.4	4,100							210

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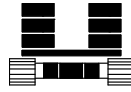
ASME B30.5



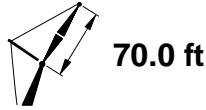
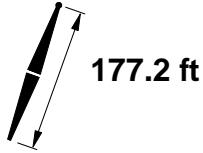
	5°			15°			25°			
	ft	°	ft	lb	ft	°	ft	lb	ft	
55	79.1	238.5	29,700							55
60	77.8	237.4	29,100							60
65	76.6	236.1	28,600							65
70	75.3	234.8	28,000	78.6	233.4	25,500				70
75	74.1	233.3	27,500	77.3	231.9	25,200				75
80	72.8	231.7	26,900	76.0	230.3	24,800	79.1	226.5	22,000	80
85	71.5	229.9	26,400	74.7	228.6	24,500	77.8	224.8	21,200	85
90	70.2	228.1	26,000	73.4	226.8	24,200	76.4	222.9	20,500	90
95	68.9	226.1	24,700	72.1	224.8	23,800	75.1	220.9	19,800	95
100	67.6	223.9	22,700	70.8	222.6	23,500	73.8	218.7	19,200	100
105	66.3	221.7	20,900	69.5	220.4	22,100	72.4	216.4	18,600	105
110	64.9	219.3	19,300	68.1	218.0	20,400	71.0	214.0	18,100	110
115	63.6	216.7	17,800	66.8	215.4	18,900	69.6	211.4	17,600	115
120	62.2	214.0	16,500	65.4	212.8	17,500	68.2	208.6	17,100	120
125	60.8	211.1	15,300	64.0	209.9	16,200	66.8	205.7	16,700	125
130	59.4	208.1	14,200	62.5	206.9	15,100	65.3	202.6	15,900	130
135	58.0	204.9	13,200	61.1	203.7	14,000	63.9	199.4	14,700	135
140	56.5	201.5	12,200	59.6	200.3	13,000	62.4	195.9	13,700	140
145	55.0	198.0	11,300	58.1	196.7	12,100	60.8	192.3	12,700	145
150	53.5	194.2	10,500	56.6	193.0	11,200	59.3	188.4	11,800	150
155	52.0	190.2	9,800	55.1	189.0	10,400	57.7	184.3	11,000	155
160	50.4	186.0	9,000	53.5	184.8	9,600	56.1	180.0	10,200	160
165	48.8	181.5	8,400	51.8	180.3	8,900	54.4	175.4	9,400	165
170	47.1	176.8	7,700	50.2	175.6	8,300	52.7	170.5	8,700	170
175	45.4	171.8	7,200	48.5	170.5	7,600	50.9	165.3	8,100	175
180	43.6	166.5	6,600	46.7	165.2	7,000	49.0	159.8	7,400	180
185	41.8	160.8	6,100	44.8	159.5	6,500	47.1	153.9	6,800	185
190	39.9	154.8	5,600	42.9	153.5	6,000	45.1	147.6	6,300	190
195	37.9	148.3	5,100	40.9	146.9	5,400	43.1	140.8	5,700	195
200	35.9	141.3	4,600	38.8	139.9	5,000				200
205	33.7	133.8	4,100	36.6	132.3	4,500				205
210				34.3	124.0	4,000				210

MLC165-1 S-1

ASME B30.5



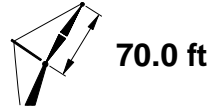
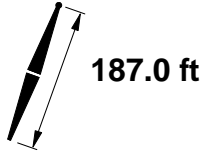
101,400 lb
+
0 lb



ft	5°			15°			25°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55	79.5	248.6	29,400							55
60	78.3	247.5	28,900							60
65	77.1	246.3	28,400							65
70	75.9	245.0	27,900	79.0	243.6	25,500				70
75	74.7	243.5	27,400	77.8	242.2	25,200				75
80	73.5	242.0	26,900	76.6	240.7	24,900	79.5	236.8	22,200	80
85	72.3	240.3	26,400	75.4	239.0	24,500	78.3	235.1	21,500	85
90	71.0	238.6	25,800	74.1	237.2	24,200	77.0	233.3	20,800	90
95	69.8	236.7	24,300	72.9	235.3	23,900	75.8	231.4	20,100	95
100	68.6	234.6	22,300	71.6	233.3	23,600	74.5	229.4	19,500	100
105	67.3	232.5	20,500	70.3	231.2	21,800	73.2	227.2	19,000	105
110	66.0	230.2	18,900	69.1	228.9	20,100	71.9	224.8	18,400	110
115	64.7	227.8	17,400	67.8	226.5	18,500	70.6	222.4	17,900	115
120	63.4	225.2	16,100	66.5	223.9	17,100	69.2	219.8	17,500	120
125	62.1	222.5	14,900	65.1	221.2	15,900	67.9	217.0	16,800	125
130	60.8	219.6	13,800	63.8	218.3	14,700	66.5	214.1	15,600	130
135	59.4	216.6	12,800	62.4	215.3	13,600	65.1	211.0	14,400	135
140	58.0	213.4	11,800	61.0	212.1	12,600	63.7	207.8	13,400	140
145	56.6	210.0	10,900	59.6	208.8	11,700	62.2	204.3	12,400	145
150	55.2	206.5	10,100	58.2	205.2	10,800	60.8	200.7	11,500	150
155	53.8	202.8	9,300	56.7	201.5	10,000	59.3	196.9	10,600	155
160	52.3	198.8	8,600	55.3	197.6	9,300	57.8	192.8	9,800	160
165	50.8	194.7	8,000	53.7	193.4	8,600	56.2	188.6	9,100	165
170	49.2	190.3	7,300	52.2	189.0	7,900	54.6	184.1	8,400	170
175	47.7	185.7	6,700	50.6	184.4	7,300	53.0	179.3	7,700	175
180	46.0	180.8	6,200	49.0	179.5	6,700	51.3	174.2	7,100	180
185	44.4	175.6	5,700	47.3	174.3	6,100	49.6	168.9	6,500	185
190	42.6	170.1	5,200	45.5	168.7	5,600	47.8	163.2	5,900	190
195	40.9	164.2	4,600	43.7	162.9	5,100	45.9	157.1	5,400	195
200	39.0	158.0	4,100	41.9	156.6	4,500	43.9	150.5	4,900	200
205				39.9	149.9	4,000	41.9	143.5	4,300	205

MLC165-1 S-1

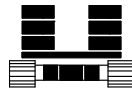
ASME B30.5



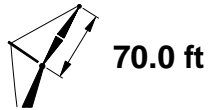
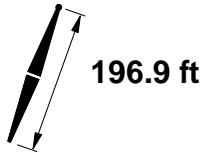
	5°			15°			25°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
60	78.8	257.6	28,600							60
65	77.6	256.4	28,100							65
70	76.5	255.2	27,600	79.5	253.8	25,400				70
75	75.3	253.8	27,100	78.3	252.4	25,200				75
80	74.1	252.3	26,600	77.1	250.9	24,800				80
85	73.0	250.7	26,100	76.0	249.4	24,500	78.8	245.4	21,800	85
90	71.8	249.0	25,700	74.8	247.7	24,200	77.6	243.7	21,100	90
95	70.6	247.2	24,000	73.6	245.8	23,900	76.3	241.9	20,400	95
100	69.4	245.3	22,000	72.4	243.9	23,400	75.1	239.9	19,800	100
105	68.2	243.2	20,200	71.2	241.9	21,500	73.9	237.8	19,300	105
110	67.0	241.0	18,600	69.9	239.7	19,800	72.6	235.6	18,700	110
115	65.8	238.7	17,100	68.7	237.4	18,300	71.4	233.3	18,200	115
120	64.5	236.3	15,800	67.4	234.9	16,900	70.1	230.8	17,800	120
125	63.3	233.7	14,600	66.2	232.4	15,600	68.8	228.2	16,600	125
130	62.0	231.0	13,500	64.9	229.7	14,400	67.5	225.4	15,300	130
135	60.7	228.1	12,500	63.6	226.8	13,400	66.2	222.5	14,200	135
140	59.4	225.1	11,500	62.3	223.8	12,400	64.9	219.4	13,100	140
145	58.1	221.9	10,600	61.0	220.6	11,400	63.5	216.2	12,200	145
150	56.7	218.5	9,800	59.6	217.2	10,600	62.1	212.7	11,300	150
155	55.4	215.0	9,000	58.3	213.7	9,800	60.7	209.1	10,400	155
160	54.0	211.3	8,300	56.9	210.0	9,000	59.3	205.4	9,600	160
165	52.6	207.4	7,700	55.4	206.1	8,300	57.8	201.4	8,900	165
170	51.1	203.3	7,000	54.0	202.0	7,600	56.4	197.2	8,200	170
175	49.7	199.0	6,400	52.5	197.7	7,000	54.8	192.7	7,500	175
180	48.2	194.5	5,900	51.0	193.2	6,400	53.3	188.0	6,900	180
185	46.6	189.7	5,300	49.4	188.3	5,900	51.7	183.1	6,300	185
190	45.0	184.6	4,700	47.8	183.3	5,300	50.0	177.9	5,700	190
195	43.4	179.3	4,200	46.2	177.9	4,700	48.3	172.3	5,200	195
200				44.5	172.2	4,200	46.6	166.4	4,600	200
205							44.7	160.1	4,000	205

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ASME B30.5



101,400 lb
+
0 lb



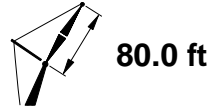
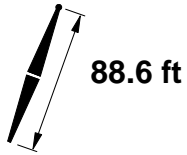
	5°			15°			25°			
	ft	°	ft	lb	ft	°	ft	lb	ft	
60	79.2		267.6	28,100						60
65	78.1		266.5	27,700						65
70	77.0		265.3	27,300						70
75	75.9		264.0	26,800	78.7		262.6	25,100		75
80	74.8		262.6	26,400	77.6		261.2	24,700		80
85	73.6		261.1	25,900	76.5		259.7	24,500	79.2	85
90	72.5		259.4	25,500	75.4		258.0	24,200	78.0	90
95	71.4		257.7	23,600	74.2		256.3	23,900	76.9	95
100	70.2		255.8	21,600	73.1		254.5	23,100	75.7	100
105	69.1		253.9	19,800	71.9		252.5	21,200	74.5	105
110	67.9		251.8	18,200	70.7		250.4	19,500	73.3	110
115	66.7		249.6	16,700	69.5		248.2	18,000	72.1	115
120	65.5		247.2	15,400	68.4		245.9	16,600	70.9	120
125	64.3		244.8	14,200	67.2		243.4	15,300	69.7	125
130	63.1		242.2	13,100	65.9		240.8	14,100	68.5	130
135	61.9		239.4	12,100	64.7		238.1	13,000	67.2	135
140	60.7		236.6	11,100	63.5		235.2	12,000	65.9	140
145	59.4		233.6	10,200	62.2		232.2	11,100	64.7	145
150	58.1		230.4	9,400	60.9		229.1	10,200	63.4	150
155	56.9		227.1	8,600	59.6		225.7	9,400	62.0	155
160	55.5		223.6	7,900	58.3		222.2	8,600	60.7	160
165	54.2		219.9	7,300	57.0		218.6	7,900	59.3	165
170	52.9		216.0	6,600	55.6		214.7	7,300	57.9	170
175	51.5		212.0	6,000	54.2		210.6	6,600	56.5	175
180	50.1		207.7	5,400	52.8		206.4	6,100	55.0	180
185	48.6		203.3	4,800	51.3		201.9	5,400	53.5	185
190	47.1		198.5	4,200	49.8		197.2	4,800	52.0	190
195					48.3		192.2	4,200	50.4	195
200									48.8	200

MLC165-1 S-1

ASME B30.5



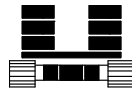
101,400 lb
+
0 lb



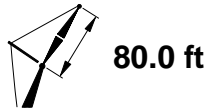
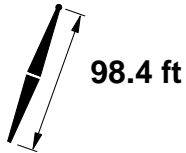
	5°			15°			25°				
	ft	°	ft	lb	ft	°	ft	lb	ft		
40	79.6		171.7	24,000						40	
45	77.9		170.6	23,400						45	
50	76.1		169.3	22,900						50	
55	74.4		167.9	22,300	79.3	166.7	22,400			55	
60	72.6		166.3	21,800	77.5	165.1	22,100			60	
65	70.8		164.5	21,300	75.7	163.3	21,500			65	
70	69.0		162.5	20,800	73.8	161.3	21,000	78.9	158.2	19,100	70
75	67.1		160.3	20,300	72.0	159.1	20,500	77.0	155.9	18,100	75
80	65.2		158.0	19,800	70.1	156.7	19,900	75.1	153.5	17,200	80
85	63.3		155.4	19,400	68.1	154.1	19,400	73.1	150.9	16,400	85
90	61.4		152.6	19,000	66.2	151.3	19,000	71.1	148.0	15,600	90
95	59.4		149.6	18,600	64.2	148.3	18,500	69.0	144.9	15,000	95
100	57.4		146.4	18,200	62.1	145.0	18,000	66.9	141.5	14,300	100
105	55.3		142.8	17,800	60.0	141.4	17,600	64.8	137.9	13,800	105
110	53.2		139.0	17,600	57.9	137.6	17,100	62.6	133.9	13,200	110
115	51.0		134.9	17,300	55.7	133.5	16,600	60.3	129.6	12,700	115
120	48.7		130.5	16,800	53.4	129.0	15,900	57.9	125.0	12,300	120
125	46.3		125.7	16,400	51.0	124.1	15,200	55.4	120.0	11,900	125
130	43.9		120.4	16,000	48.5	118.8	14,600	52.8	114.4	11,500	130
135	41.3		114.7	15,600	45.8	113.0	14,100	50.1	108.4	11,200	135
140	38.5		108.4	15,000	43.1	106.6	13,600	47.2	101.7	10,800	140
145	35.6		101.5	14,100	40.1	99.4	13,100	44.0	94.2	10,500	145
150	32.5		93.7	13,300	36.9	91.4	12,700	40.6	85.6	10,300	150
155	29.0		84.7	12,500	33.3	82.3	12,300				155
160	25.1		74.3	11,800	29.2	71.5	11,900				160
165	20.4		61.5	11,100							165

MLC165-1 S-1

ASME B30.5



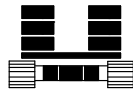
101,400 lb
+
0 lb



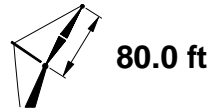
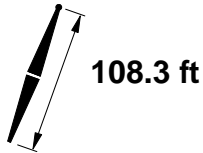
ft	5°			15°			25°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45	78.6	180.7	23,400							45
50	76.9	179.5	22,900							50
55	75.3	178.1	22,300							55
60	73.6	176.6	21,800	78.2	175.4	21,900				60
65	71.9	174.9	21,300	76.5	173.7	21,500				65
70	70.2	173.1	20,900	74.8	171.8	21,100	79.6	168.6	19,500	70
75	68.5	171.1	20,300	73.0	169.8	20,700	77.8	166.5	18,500	75
80	66.7	168.9	19,900	71.3	167.6	20,200	76.0	164.2	17,600	80
85	64.9	166.5	19,400	69.5	165.1	19,800	74.2	161.8	16,800	85
90	63.1	163.9	19,000	67.7	162.5	19,300	72.3	159.1	16,100	90
95	61.3	161.1	18,600	65.8	159.7	18,800	70.4	156.2	15,400	95
100	59.4	158.1	18,200	63.9	156.7	18,400	68.5	153.1	14,800	100
105	57.5	154.8	17,900	62.0	153.4	18,000	66.5	149.8	14,200	105
110	55.5	151.4	17,500	60.0	149.9	17,500	64.5	146.2	13,700	110
115	53.5	147.6	17,200	58.0	146.1	17,200	62.4	142.3	13,200	115
120	51.5	143.6	17,000	55.9	142.1	16,600	60.2	138.1	12,700	120
125	49.3	139.3	16,700	53.7	137.7	16,000	58.0	133.6	12,300	125
130	47.1	134.6	16,400	51.5	132.9	15,400	55.7	128.7	11,900	130
135	44.8	129.5	15,500	49.2	127.8	14,800	53.3	123.3	11,600	135
140	42.5	124.0	14,600	46.8	122.2	14,300	50.8	117.5	11,200	140
145	40.0	118.0	13,700	44.2	116.1	13,800	48.1	111.2	10,900	145
150	37.3	111.5	12,900	41.5	109.4	13,300	45.3	104.2	10,600	150
155	34.5	104.2	12,100	38.6	102.0	12,500	42.2	96.3	10,400	155
160	31.4	96.1	11,400	35.5	93.7	11,700				160
165	28.0	86.8	10,700	32.0	84.1	11,000				165
170	24.2	76.0	10,000							170
175	19.6	62.6	9,400							175

MLC165-1 S-1

ASME B30.5



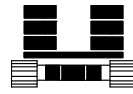
101,400 lb
+
0 lb



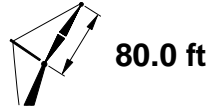
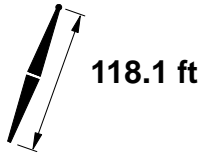
	5°			15°			25°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45	79.2	190.8	23,300							45
50	77.6	189.6	22,800							50
55	76.1	188.4	22,300							55
60	74.5	186.9	21,800	78.9	185.6	21,900				60
65	72.9	185.3	21,300	77.3	184.0	21,500				65
70	71.3	183.6	20,900	75.6	182.3	21,100				70
75	69.6	181.7	20,400	74.0	180.4	20,700	78.5	177.0	18,900	75
80	68.0	179.6	19,900	72.3	178.3	20,300	76.8	174.9	18,000	80
85	66.3	177.4	19,500	70.6	176.0	19,900	75.1	172.6	17,200	85
90	64.6	175.0	19,100	68.9	173.6	19,500	73.4	170.1	16,500	90
95	62.9	172.4	18,700	67.2	171.0	19,100	71.6	167.4	15,800	95
100	61.2	169.6	18,300	65.5	168.1	18,700	69.8	164.5	15,200	100
105	59.4	166.6	17,900	63.7	165.1	18,300	68.0	161.4	14,600	105
110	57.6	163.3	17,700	61.8	161.9	17,900	66.1	158.1	14,100	110
115	55.7	159.9	17,300	60.0	158.4	17,500	64.2	154.5	13,600	115
120	53.8	156.2	17,000	58.1	154.6	17,100	62.2	150.7	13,100	120
125	51.9	152.2	16,700	56.1	150.6	16,700	60.2	146.5	12,700	125
130	49.9	148.0	16,200	54.1	146.3	16,100	58.1	142.1	12,300	130
135	47.8	143.4	15,200	52.0	141.7	15,500	55.9	137.3	12,000	135
140	45.7	138.5	14,300	49.8	136.7	14,800	53.7	132.2	11,600	140
145	43.5	133.2	13,400	47.6	131.4	13,900	51.4	126.6	11,300	145
150	41.2	127.5	12,600	45.2	125.5	13,000	48.9	120.5	11,000	150
155	38.7	121.2	11,800	42.7	119.2	12,200	46.3	113.9	10,700	155
160	36.2	114.4	11,100	40.1	112.2	11,500	43.6	106.5	10,500	160
165	33.4	106.8	10,400	37.3	104.5	10,800	40.6	98.3	10,300	165
170	30.4	98.4	9,800	34.2	95.8	10,100				170
175	27.1	88.8	9,200	30.8	85.9	9,400				175
180	23.4	77.5	8,600							180
185	18.9	63.7	8,000							185

MLC165-1 S-1

ASME B30.5



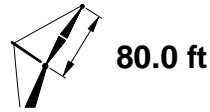
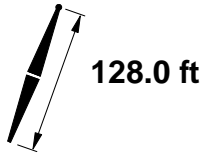
101,400 lb
+
0 lb



ft	5°			15°			25°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50	78.3	199.8	22,800							50
55	76.8	198.5	22,300							55
60	75.3	197.2	21,800	79.4	195.8	22,000				60
65	73.8	195.7	21,300	77.9	194.3	21,500				65
70	72.2	194.0	20,900	76.4	192.7	21,100				70
75	70.7	192.2	20,400	74.8	190.9	20,700	79.1	187.4	19,200	75
80	69.1	190.3	20,000	73.3	188.9	20,300	77.5	185.4	18,400	80
85	67.6	188.2	19,500	71.7	186.8	20,000	75.9	183.2	17,600	85
90	66.0	185.9	19,100	70.1	184.5	19,600	74.3	180.9	16,900	90
95	64.4	183.5	18,700	68.5	182.0	19,300	72.6	178.4	16,200	95
100	62.7	180.8	18,300	66.8	179.4	18,900	70.9	175.7	15,600	100
105	61.1	178.0	18,000	65.1	176.6	18,600	69.2	172.8	15,000	105
110	59.4	175.0	17,600	63.4	173.5	18,200	67.5	169.7	14,500	110
115	57.7	171.8	17,300	61.7	170.3	17,800	65.7	166.4	14,000	115
120	55.9	168.4	17,000	59.9	166.8	17,400	63.9	162.8	13,500	120
125	54.1	164.8	16,800	58.1	163.2	17,100	62.0	159.0	13,100	125
130	52.3	160.8	15,800	56.3	159.2	16,500	60.1	155.0	12,700	130
135	50.4	156.7	14,800	54.4	155.0	15,400	58.2	150.6	12,300	135
140	48.5	152.2	13,800	52.4	150.5	14,400	56.2	146.0	12,000	140
145	46.5	147.4	12,900	50.4	145.6	13,500	54.1	141.0	11,700	145
150	44.4	142.3	12,100	48.3	140.4	12,700	51.9	135.6	11,400	150
155	42.3	136.8	11,400	46.1	134.8	11,900	49.6	129.8	11,100	155
160	40.0	130.8	10,600	43.8	128.7	11,100	47.2	123.4	10,800	160
165	37.6	124.3	10,000	41.4	122.1	10,400	44.7	116.5	10,600	165
170	35.1	117.2	9,300	38.8	114.9	9,700	42.0	108.8	10,000	170
175	32.4	109.4	8,700	36.1	106.9	9,100				175
180	29.5	100.6	8,200	33.1	97.9	8,500				180
185	26.3	90.7	7,600	29.8	87.6	7,900				185
190	22.6	79.0	7,100							190
195	18.2	64.7	6,600							195

MLC165-1 S-1

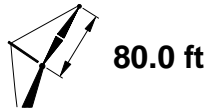
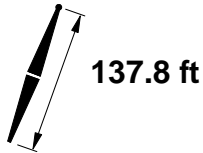
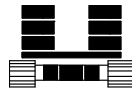
ASME B30.5



	5°			15°			25°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50	78.8	209.8	22,700							50
55	77.4	208.7	22,300							55
60	76.0	207.4	21,800							60
65	74.6	206.0	21,300	78.5	204.6	21,500				65
70	73.1	204.4	20,900	77.1	203.0	21,100				70
75	71.7	202.7	20,400	75.6	201.3	20,700	79.7	197.7	19,500	75
80	70.2	200.9	20,000	74.1	199.5	20,400	78.2	195.9	18,700	80
85	68.7	198.9	19,600	72.6	197.4	20,000	76.7	193.8	17,900	85
90	67.2	196.7	19,200	71.1	195.3	19,700	75.1	191.6	17,200	90
95	65.7	194.4	18,800	69.6	193.0	19,300	73.6	189.2	16,600	95
100	64.2	192.0	18,400	68.0	190.5	19,000	72.0	186.7	16,000	100
105	62.6	189.3	18,100	66.5	187.8	18,700	70.4	184.0	15,400	105
110	61.0	186.5	17,800	64.9	185.0	18,500	68.7	181.1	14,900	110
115	59.4	183.5	17,400	63.3	182.0	18,100	67.1	178.0	14,400	115
120	57.8	180.3	17,100	61.6	178.7	17,800	65.4	174.7	13,900	120
125	56.1	176.9	16,500	59.9	175.3	17,300	63.7	171.2	13,500	125
130	54.4	173.3	15,400	58.2	171.7	16,200	61.9	167.4	13,100	130
135	52.7	169.5	14,400	56.4	167.8	15,100	60.1	163.4	12,700	135
140	50.9	165.3	13,500	54.6	163.6	14,100	58.3	159.2	12,400	140
145	49.1	161.0	12,600	52.8	159.2	13,200	56.3	154.6	12,000	145
150	47.2	156.3	11,800	50.9	154.5	12,300	54.4	149.7	11,700	150
155	45.2	151.3	11,000	48.9	149.4	11,500	52.3	144.5	11,400	155
160	43.2	146.0	10,300	46.9	144.0	10,800	50.2	138.9	11,200	160
165	41.1	140.2	9,600	44.7	138.1	10,100	48.0	132.8	10,500	165
170	38.9	134.0	9,000	42.5	131.8	9,400	45.7	126.2	9,800	170
175	36.6	127.3	8,400	40.1	125.0	8,800	43.2	119.0	9,100	175
180	34.1	119.9	7,800	37.6	117.5	8,200	40.5	111.1	8,500	180
185	31.5	111.8	7,300	35.0	109.2	7,600				185
190	28.7	102.8	6,800	32.0	99.9	7,100				190
195	25.5	92.5	6,300	28.8	89.2	6,500				195
200	21.9	80.4	5,800							200

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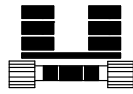
ASME B30.5



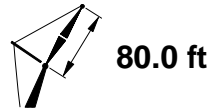
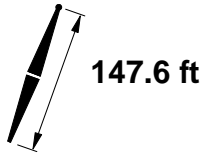
ft	5°			15°			25°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50	79.3	219.9	22,600							50
55	78.0	218.8	22,200							55
60	76.6	217.6	21,700							60
65	75.3	216.2	21,300	79.1	214.8	21,500				65
70	73.9	214.7	20,800	77.7	213.3	21,100				70
75	72.5	213.1	20,400	76.3	211.7	20,800				75
80	71.1	211.4	20,000	74.9	209.9	20,400	78.8	206.3	19,000	80
85	69.7	209.5	19,600	73.5	208.0	20,000	77.3	204.3	18,300	85
90	68.3	207.5	19,200	72.0	206.0	19,700	75.9	202.2	17,600	90
95	66.9	205.3	18,800	70.6	203.8	19,300	74.4	200.0	16,900	95
100	65.4	202.9	18,400	69.1	201.4	19,000	72.9	197.6	16,300	100
105	63.9	200.5	18,100	67.6	198.9	18,700	71.4	195.0	15,700	105
110	62.5	197.8	17,700	66.1	196.3	18,500	69.8	192.3	15,200	110
115	60.9	195.0	17,400	64.6	193.4	18,100	68.3	189.4	14,700	115
120	59.4	192.0	17,100	63.1	190.4	18,000	66.7	186.3	14,300	120
125	57.9	188.8	16,100	61.5	187.2	17,000	65.1	183.0	13,800	125
130	56.3	185.4	15,000	59.9	183.8	15,800	63.5	179.6	13,400	130
135	54.6	181.9	14,000	58.3	180.2	14,700	61.8	175.8	13,100	135
140	53.0	178.0	13,000	56.6	176.3	13,700	60.1	171.9	12,700	140
145	51.3	174.0	12,100	54.9	172.2	12,800	58.3	167.7	12,400	145
150	49.6	169.7	11,300	53.1	167.9	12,000	56.5	163.2	12,100	150
155	47.8	165.1	10,600	51.3	163.3	11,200	54.7	158.5	11,700	155
160	45.9	160.3	9,800	49.5	158.3	10,400	52.7	153.4	10,900	160
165	44.0	155.1	9,200	47.5	153.1	9,700	50.7	147.9	10,200	165
170	42.1	149.5	8,600	45.6	147.4	9,000	48.7	142.1	9,500	170
175	40.0	143.5	8,000	43.5	141.4	8,400	46.5	135.8	8,800	175
180	37.9	137.1	7,400	41.3	134.8	7,800	44.2	128.9	8,200	180
185	35.6	130.1	6,900	39.0	127.7	7,200	41.8	121.4	7,600	185
190	33.2	122.5	6,400	36.5	120.0	6,700				190
195	30.7	114.2	5,900	33.9	111.4	6,200				195
200	27.9	104.8	5,400	31.0	101.8	5,700				200
205	24.8	94.2	5,000							205
210	21.3	81.8	4,600							210

MLC165-1 S-1

ASME B30.5



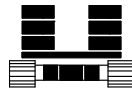
101,400 lb
+
0 lb



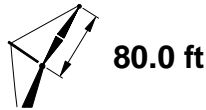
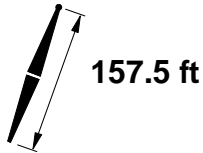
	5°			15°			25°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55	78.5	228.9	22,100							55
60	77.2	227.7	21,700							60
65	75.9	226.4	21,200	79.5	225.0	21,400				65
70	74.6	225.0	20,800	78.2	223.6	21,000				70
75	73.3	223.5	20,400	76.9	222.0	20,700				75
80	72.0	221.8	20,000	75.6	220.3	20,300	79.3	216.6	19,300	80
85	70.6	220.0	19,600	74.2	218.5	20,000	77.9	214.8	18,600	85
90	69.3	218.1	19,200	72.9	216.6	19,700	76.5	212.8	17,900	90
95	67.9	216.0	18,800	71.5	214.5	19,400	75.1	210.7	17,200	95
100	66.6	213.8	18,500	70.1	212.3	19,000	73.7	208.4	16,600	100
105	65.2	211.5	18,100	68.7	209.9	18,700	72.3	206.0	16,100	105
110	63.8	209.0	17,800	67.3	207.4	18,500	70.8	203.4	15,500	110
115	62.3	206.3	17,400	65.8	204.7	18,200	69.4	200.7	15,100	115
120	60.9	203.5	17,100	64.4	201.9	17,900	67.9	197.8	14,600	120
125	59.4	200.5	16,100	62.9	198.8	17,000	66.4	194.7	14,200	125
130	57.9	197.3	15,000	61.4	195.6	15,800	64.8	191.4	13,800	130
135	56.4	193.9	14,000	59.9	192.3	14,800	63.3	187.9	13,400	135
140	54.9	190.4	13,000	58.3	188.7	13,800	61.7	184.3	13,000	140
145	53.3	186.6	12,200	56.7	184.9	12,900	60.0	180.4	12,700	145
150	51.7	182.6	11,300	55.1	180.8	12,000	58.4	176.2	12,400	150
155	50.0	178.4	10,600	53.4	176.6	11,200	56.7	171.8	11,800	155
160	48.3	173.9	9,900	51.7	172.0	10,500	54.9	167.2	11,000	160
165	46.6	169.2	9,200	50.0	167.2	9,800	53.1	162.2	10,300	165
170	44.8	164.1	8,600	48.2	162.1	9,100	51.2	156.9	9,600	170
175	43.0	158.7	8,000	46.3	156.6	8,500	49.3	151.2	8,900	175
180	41.0	152.9	7,400	44.3	150.8	7,900	47.2	145.2	8,300	180
185	39.0	146.8	6,900	42.3	144.5	7,300	45.1	138.6	7,700	185
190	36.9	140.1	6,400	40.2	137.7	6,800	42.9	131.5	7,100	190
195	34.7	132.9	5,900	37.9	130.4	6,300	40.5	123.8	6,500	195
200	32.4	125.1	5,500	35.5	122.4	5,800				200
205	29.9	116.4	5,100	33.0	113.5	5,300				205
210	27.2	106.8	4,600	30.1	103.6	4,900				210
215	24.1	95.9	4,200							215

MLC165-1 S-1

ASME B30.5



101,400 lb
+
0 lb



ft	5°			15°			25°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55	79.0	239.0	21,900							55
60	77.8	237.8	21,500							60
65	76.5	236.6	21,200							65
70	75.3	235.3	20,800	78.7	233.8	21,000				70
75	74.0	233.8	20,300	77.5	232.3	20,700				75
80	72.8	232.2	19,900	76.2	230.7	20,300				80
85	71.5	230.5	19,600	74.9	229.0	20,000	78.5	225.1	18,800	85
90	70.2	228.6	19,200	73.6	227.1	19,700	77.1	223.3	18,200	90
95	68.9	226.7	18,800	72.3	225.1	19,400	75.8	221.2	17,500	95
100	67.6	224.6	18,500	71.0	223.0	19,000	74.5	219.1	16,900	100
105	66.3	222.3	18,100	69.7	220.8	18,800	73.1	216.8	16,400	105
110	64.9	220.0	17,800	68.3	218.4	18,500	71.7	214.4	15,900	110
115	63.6	217.4	17,500	67.0	215.8	18,200	70.3	211.8	15,400	115
120	62.2	214.8	16,900	65.6	213.2	17,900	68.9	209.0	14,900	120
125	60.8	211.9	15,700	64.2	210.3	16,700	67.5	206.1	14,500	125
130	59.4	209.0	14,600	62.8	207.3	15,500	66.1	203.0	14,100	130
135	58.0	205.8	13,600	61.3	204.1	14,400	64.6	199.8	13,700	135
140	56.5	202.5	12,600	59.9	200.7	13,400	63.1	196.3	13,300	140
145	55.1	198.9	11,800	58.4	197.2	12,500	61.6	192.7	13,000	145
150	53.6	195.2	10,900	56.9	193.4	11,600	60.0	188.8	12,300	150
155	52.0	191.3	10,200	55.3	189.4	10,800	58.4	184.7	11,500	155
160	50.5	187.1	9,500	53.7	185.2	10,100	56.8	180.4	10,700	160
165	48.8	182.7	8,800	52.1	180.8	9,400	55.1	175.8	9,900	165
170	47.2	178.0	8,200	50.4	176.1	8,700	53.4	171.0	9,200	170
175	45.5	173.1	7,600	48.7	171.1	8,100	51.6	165.8	8,600	175
180	43.7	167.8	7,000	46.9	165.7	7,500	49.8	160.3	8,000	180
185	41.9	162.2	6,500	45.1	160.1	6,900	47.9	154.5	7,400	185
190	40.1	156.3	6,000	43.2	154.0	6,400	45.9	148.2	6,800	190
195	38.1	149.9	5,500	41.2	147.5	5,900	43.8	141.4	6,200	195
200	36.1	143.0	5,100	39.1	140.5	5,400	41.7	134.1	5,700	200
205	33.9	135.6	4,600	36.9	133.0	5,000				205
210	31.6	127.5	4,200	34.6	124.7	4,500				210
215				32.0	115.6	4,100				215

MLC165-1 S-1

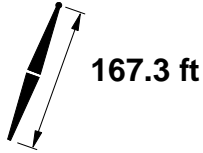
ASME B30.5



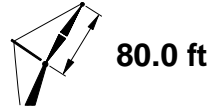
101,400 lb
+
0 lb



360°



167.3 ft

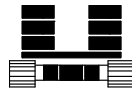


80.0 ft

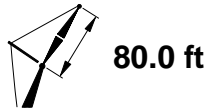
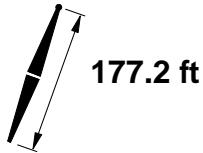
	5°			15°			25°					
	ft	°	ft	lb	ft	°	ft	lb	ft			
55	79.4		249.0	21,800						55		
60	78.3		247.9	21,400						60		
65	77.1		246.8	21,100						65		
70	75.9		245.5	20,700	79.2		244.0	20,900		70		
75	74.7		244.1	20,300	78.0		242.5	20,600		75		
80	73.5		242.5	19,900	76.8		241.0	20,300		80		
85	72.2		240.9	19,500	75.5		239.4	20,000	78.9	235.5	19,100	85
90	71.0		239.1	19,200	74.3		237.6	19,700	77.7	233.7	18,400	90
95	69.8		237.3	18,800	73.1		235.7	19,300	76.4	231.8	17,800	95
100	68.5		235.3	18,500	71.8		233.7	19,100	75.1	229.7	17,200	100
105	67.3		233.1	18,100	70.5		231.6	18,800	73.9	227.5	16,700	105
110	66.0		230.9	17,800	69.3		229.3	18,500	72.5	225.2	16,200	110
115	64.7		228.5	17,500	68.0		226.9	18,300	71.2	222.7	15,700	115
120	63.4		225.9	16,600	66.7		224.3	17,600	69.9	220.1	15,200	120
125	62.1		223.3	15,300	65.3		221.6	16,400	68.5	217.4	14,800	125
130	60.8		220.4	14,200	64.0		218.7	15,200	67.2	214.5	14,400	130
135	59.4		217.4	13,200	62.6		215.7	14,100	65.8	211.4	14,000	135
140	58.0		214.3	12,300	61.2		212.6	13,100	64.4	208.1	13,700	140
145	56.7		211.0	11,400	59.8		209.2	12,200	62.9	204.7	13,000	145
150	55.2		207.5	10,600	58.4		205.7	11,300	61.5	201.1	12,100	150
155	53.8		203.8	9,800	57.0		201.9	10,500	60.0	197.3	11,200	155
160	52.3		199.9	9,100	55.5		198.0	9,800	58.5	193.2	10,400	160
165	50.8		195.8	8,400	54.0		193.9	9,100	56.9	189.0	9,700	165
170	49.3		191.4	7,800	52.4		189.5	8,400	55.3	184.5	9,000	170
175	47.7		186.9	7,200	50.8		184.9	7,800	53.7	179.7	8,300	175
180	46.1		182.0	6,700	49.2		180.0	7,200	52.0	174.7	7,700	180
185	44.5		176.9	6,100	47.5		174.8	6,600	50.3	169.3	7,100	185
190	42.8		171.5	5,600	45.8		169.3	6,100	48.5	163.7	6,500	190
195	41.0		165.7	5,200	44.0		163.4	5,600	46.6	157.6	6,000	195
200	39.1		159.5	4,700	42.1		157.2	5,100	44.7	151.1	5,500	200
205	37.2		152.9	4,200	40.2		150.5	4,700	42.7	144.1	5,000	205
210					38.1		143.3	4,200	40.5	136.5	4,500	210

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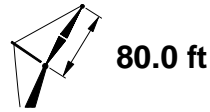
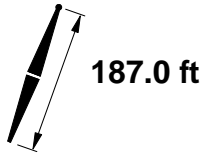
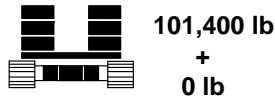
101,400 lb
+
0 lb



	5°			15°			25°				
	ft	°	ft	lb	ft	°	ft	lb	ft		
60	78.7		258.0	21,200						60	
65	77.6		256.9	20,900						65	
70	76.4		255.6	20,600	79.6	254.1	20,900			70	
75	75.3		254.3	20,200	78.5	252.8	20,500			75	
80	74.1		252.8	19,800	77.3	251.3	20,200			80	
85	72.9		251.3	19,400	76.1	249.7	19,900	79.4	245.8	19,300	85
90	71.8		249.6	19,100	74.9	248.0	19,600	78.2	244.1	18,700	90
95	70.6		247.8	18,800	73.8	246.2	19,300	77.0	242.2	18,100	95
100	69.4		245.9	18,400	72.6	244.3	19,000	75.8	240.3	17,500	100
105	68.2		243.8	18,100	71.3	242.2	18,700	74.5	238.2	17,000	105
110	67.0		241.7	17,800	70.1	240.1	18,500	73.3	236.0	16,500	110
115	65.8		239.4	17,500	68.9	237.8	18,300	72.0	233.6	16,000	115
120	64.5		237.0	16,200	67.6	235.3	17,300	70.8	231.1	15,500	120
125	63.3		234.4	14,900	66.4	232.8	16,000	69.5	228.5	15,100	125
130	62.0		231.7	13,800	65.1	230.1	14,800	68.2	225.7	14,700	130
135	60.7		228.9	12,800	63.8	227.2	13,800	66.9	222.8	14,300	135
140	59.4		225.9	11,900	62.5	224.2	12,800	65.5	219.8	13,600	140
145	58.1		222.8	11,000	61.2	221.0	11,800	64.2	216.5	12,700	145
150	56.8		219.5	10,200	59.8	217.7	11,000	62.8	213.1	11,800	150
155	55.4		216.0	9,400	58.5	214.2	10,200	61.4	209.5	10,900	155
160	54.0		212.3	8,700	57.1	210.5	9,400	60.0	205.7	10,100	160
165	52.6		208.5	8,000	55.6	206.6	8,700	58.5	201.8	9,400	165
170	51.2		204.4	7,400	54.2	202.5	8,000	57.0	197.6	8,700	170
175	49.7		200.1	6,800	52.7	198.2	7,400	55.5	193.1	8,000	175
180	48.2		195.6	6,200	51.2	193.6	6,800	54.0	188.5	7,400	180
185	46.7		190.9	5,700	49.7	188.8	6,300	52.4	183.5	6,800	185
190	45.1		185.9	5,200	48.1	183.8	5,700	50.7	178.3	6,200	190
195	43.5		180.6	4,700	46.4	178.4	5,200	49.0	172.8	5,700	195
200	41.8		175.0	4,100	44.7	172.7	4,700	47.3	166.9	5,100	200
205					43.0	166.7	4,200	45.4	160.6	4,600	205
210								43.5	153.9	4,100	210

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	5°			15°			25°			
	ft	°	ft	lb	ft	°	ft	lb	ft	
60	79.1		268.1	21,000						60
65	78.0		267.0	20,700						65
70	76.9		265.8	20,400						70
75	75.8		264.5	20,100	78.9		262.9	20,400		75
80	74.7		263.1	19,700	77.8		261.5	20,100		80
85	73.6		261.6	19,400	76.7		260.0	19,800		85
90	72.5		260.0	19,000	75.5		258.4	19,500	78.7	90
95	71.3		258.3	18,700	74.4		256.7	19,300	77.5	95
100	70.2		256.4	18,400	73.2		254.8	19,000	76.3	100
105	69.0		254.5	18,100	72.1		252.9	18,700	75.2	105
110	67.9		252.4	17,700	70.9		250.8	18,400	74.0	110
115	66.7		250.2	17,200	69.7		248.6	18,200	72.8	115
120	65.5		247.9	15,800	68.5		246.3	17,000	71.6	120
125	64.3		245.5	14,600	67.3		243.8	15,700	70.3	125
130	63.1		242.9	13,500	66.1		241.2	14,600	69.1	130
135	61.9		240.2	12,500	64.9		238.5	13,500	67.8	135
140	60.7		237.4	11,500	63.6		235.6	12,500	66.6	140
145	59.4		234.4	10,700	62.4		232.6	11,600	65.3	145
150	58.2		231.3	9,800	61.1		229.5	10,700	64.0	150
155	56.9		228.0	9,100	59.8		226.1	9,900	62.7	155
160	55.6		224.5	8,400	58.5		222.7	9,100	61.3	160
165	54.2		220.9	7,700	57.2		219.0	8,400	59.9	165
170	52.9		217.0	7,100	55.8		215.1	7,800	58.6	170
175	51.5		213.0	6,500	54.4		211.1	7,100	57.1	175
180	50.1		208.8	5,900	53.0		206.8	6,500	55.7	180
185	48.7		204.4	5,400	51.5		202.4	6,000	54.2	185
190	47.2		199.8	4,800	50.1		197.7	5,500	52.7	190
195	45.7		194.8	4,200	48.5		192.7	4,900	51.1	195
200					47.0		187.5	4,300	49.5	200
205									47.8	205