

Liftcrane Jib Capacities

Jib No. 134 with 12 ft 6 in. Strut on
Boom No. 74A

123,400 lb Crane Counterweight
45,100 lb Carbody Counterweight
360 Degree Rating

MLC165-1 SERIES 2



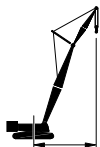
LIFTING CAPACITIES: Chart supplements Boom Capacity chart **No. 9429-A**. Lifting capacities for various boom lengths, jib lengths, and jib operating radii are for freely suspended loads and may be based on percent of static tipping or strength of structural components.

206.7 ft thru 246.1 ft boom lengths require 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.



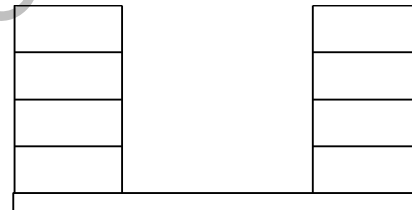
BOOM ANGLE: Boom angle in degrees (°) is angle between horizontal and centerline of boom butt and inserts, and is an indication of operating radius. In all cases, operating radius shall govern capacity.



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

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



123,400 lb Crane Counterweight
8 side boxes

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

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 - 137.8	7,700	7,700	7,700	7,700	7,700	7,700
147.6	7,700	7,700	7,700	7,700	7,700	5,800
157.5	7,700	7,700	7,700	7,700	5,800	5,800
167.3	7,700	7,700	5,800	5,800	1,600	1,600
177.2	5,800	5,800	1,600	1,600	1,600	1,600
187.0	1,600	1,600	1,600	1,600	1,600	1,600
196.9	1,600	1,600	1,600	1,600	1,600	#
206.7	1,600	1,600	#	#	#	#
216.5	#	#	#	a	RAISING NOT PERMITTED	
226.4	#	a				
236.2 - 246.1						

Table 2

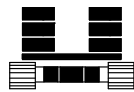
Raising Ability Over Front of Blocked Crawlers						
Boom Length (ft)	Fixed Jib No. 134					
	30.0 ft	40.0 ft	50.0 ft	60.0 ft	70.0 ft	80.0 ft
	Block Weight (lb)					
88.6 - 137.8	7,700	7,700	7,700	7,700	7,700	7,700
147.6	7,700	7,700	7,700	7,700	7,700	5,800
157.5	7,700	7,700	7,700	7,700	5,800	5,800
167.3	7,700	7,700	5,800	5,800	1,600	1,600
177.2	5,800	5,800	1,600	1,600	1,600	1,600
187.0	1,600	1,600	1,600	1,600	1,600	1,600
196.9	1,600	1,600	1,600	1,600	1,600	#
206.7	1,600	1,600	#	#	#	#
216.5	#	#	#	#	#	#
226.4	#	#	#	#	#	#
236.2	#	#	#	a	RAISING NOT PERMITTED	
246.1	#	a				

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



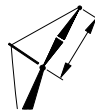
Crane Counterweight
+
Carbody Counterweight



360 Degree Rating



Boom Length



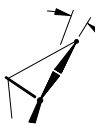
Jib Length



Boom Angle
(see page 1)



Operating Radius
(see page 1)



Jib Offset Angle



Jib Point Elevation
(see page 1)

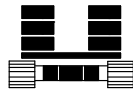


Lifting Capacities
(see page 1)

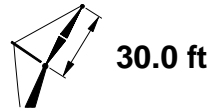
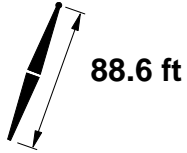
REFERENCE ONLY!

MLC165-1 S-2

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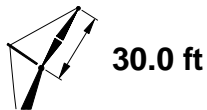
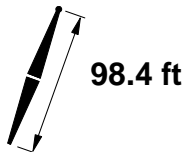
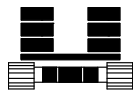
123,400 lb
+
45,100 lb



	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	117.2	46,400
45	71.5		118.2	55,100	74.0	117.3	55,100	76.6	115.5	43,900
50	68.9		116.2	55,100	71.4	115.4	55,100	73.9	113.5	41,600
55	66.3		114.0	55,100	68.8	113.1	55,000	71.2	111.2	39,700
60	63.6		111.5	55,100	66.0	110.6	54,100	68.4	108.7	37,900
65	60.8		108.7	55,100	63.3	107.8	53,400	65.6	105.8	36,300
70	58.0		105.6	52,400	60.4	104.6	52,000	62.7	102.6	34,900
75	55.0		102.1	47,600	57.4	101.1	48,100	59.6	99.0	33,700
80	52.0		98.2	43,600	54.3	97.2	44,000	56.4	94.9	32,600
85	48.7		93.8	40,100	51.1	92.8	40,500	53.1	90.4	31,600
90	45.4		89.0	37,000	47.6	87.8	37,300	49.6	85.3	30,700
95	41.8		83.4	34,200	44.0	82.2	34,500	45.8	79.5	29,900
100	37.9		77.1	31,800	40.0	75.8	32,000			
105	33.6		69.8	29,600	35.6	68.3	29,800			
110	28.7		61.0	27,600						
115	22.8		50.0	25,800						

MLC165-1 S-2

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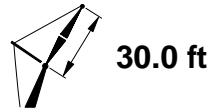
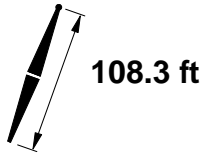
ft	5°			15°			25°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
35	77.6	131.4	55,100							35
40	75.3	130.1	55,100	77.7	129.3	55,100				40
45	73.0	128.6	55,100	75.3	127.7	55,100	77.7	125.9	44,900	45
50	70.6	126.8	55,100	72.9	125.9	55,100	75.3	124.0	42,700	50
55	68.2	124.8	55,100	70.5	123.9	55,100	72.8	122.0	40,800	55
60	65.8	122.5	55,100	68.1	121.6	54,600	70.3	119.7	39,100	60
65	63.3	120.0	55,100	65.5	119.1	53,800	67.7	117.1	37,500	65
70	60.7	117.2	52,000	63.0	116.3	52,600	65.1	114.2	36,100	70
75	58.1	114.1	47,200	60.3	113.1	47,800	62.4	111.0	34,800	75
80	55.4	110.6	43,200	57.6	109.6	43,700	59.6	107.4	33,700	80
85	52.6	106.8	39,700	54.7	105.8	40,100	56.7	103.5	32,700	85
90	49.6	102.6	36,600	51.8	101.5	37,000	53.7	99.1	31,700	90
95	46.6	97.9	33,900	48.7	96.8	34,200	50.5	94.2	30,900	95
100	43.3	92.7	31,400	45.4	91.4	31,700	47.1	88.8	30,200	100
105	39.9	86.8	29,200	41.9	85.5	29,500	43.5	82.6	29,500	105
110	36.2	80.1	27,200	38.1	78.6	27,500				110
115	32.0	72.3	25,400	33.9	70.7	25,600				115
120	27.3	63.0	23,800							120
125	21.7	51.4	22,200							125

MLC165-1 S-2

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123,400 lb
+
45,100 lb



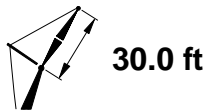
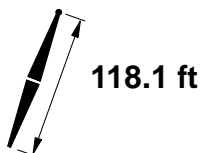
	5°			15°			25°			
	ft	°	ft	lb	ft	°	ft	lb	ft	
35	78.5		141.5	55,100						35
40	76.4		140.3	55,100	78.6		139.5	55,100		40
45	74.2		138.9	55,100	76.4		138.0	55,100	78.6	45
50	72.1		137.3	55,100	74.2		136.4	55,100	76.4	50
55	69.9		135.4	55,100	72.0		134.5	55,100	74.1	55
60	67.6		133.3	55,100	69.7		132.4	54,900	71.8	60
65	65.3		131.0	55,100	67.4		130.1	54,200	69.5	65
70	63.0		128.5	51,700	65.1		127.6	52,400	67.1	70
75	60.6		125.7	47,000	62.7		124.7	47,600	64.7	75
80	58.2		122.6	43,000	60.2		121.6	43,500	62.2	80
85	55.7		119.2	39,500	57.7		118.1	39,900	59.6	85
90	53.1		115.4	36,400	55.1		114.4	36,800	56.9	90
95	50.4		111.3	33,700	52.4		110.2	34,000	54.1	95
100	47.6		106.8	31,200	49.6		105.6	31,600	51.2	100
105	44.7		101.7	29,000	46.6		100.5	29,300	48.2	105
110	41.6		96.2	27,100	43.4		94.9	27,300	44.9	110
115	38.2		89.9	25,300	40.1		88.6	25,500		115
120	34.6		82.8	23,600	36.4		81.3	23,800		120
125	30.7		74.7	22,100	32.3		73.0	22,300		125
130	26.1		64.9	20,700						130

MLC165-1 S-2

ASME B30.5



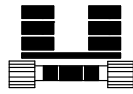
123,400 lb
+
45,100 lb



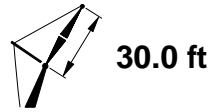
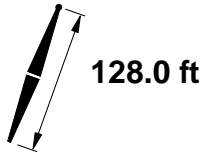
ft	5°			15°			25°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
35	79.3	151.6	55,100							35
40	77.3	150.5	55,100	79.4	149.6	55,100				40
45	75.3	149.1	55,100	77.4	148.3	55,100	79.4	146.4	46,600	45
50	73.3	147.6	55,100	75.3	146.8	55,100	77.4	144.8	44,600	50
55	71.3	145.9	55,100	73.3	145.0	55,100	75.3	143.1	42,700	55
60	69.2	144.0	55,100	71.2	143.1	55,100	73.2	141.1	41,000	60
65	67.1	141.9	55,100	69.1	141.0	54,400	71.0	139.0	39,500	65
70	64.9	139.6	51,400	66.9	138.6	52,100	68.8	136.6	38,100	70
75	62.8	137.0	46,600	64.7	136.0	47,300	66.6	133.9	36,900	75
80	60.5	134.1	42,600	62.5	133.2	43,200	64.3	131.0	35,700	80
85	58.3	131.1	39,100	60.2	130.1	39,600	62.0	127.9	34,700	85
90	55.9	127.7	36,000	57.8	126.7	36,500	59.6	124.4	33,700	90
95	53.5	124.0	33,300	55.4	122.9	33,700	57.1	120.6	32,800	95
100	51.0	120.0	30,800	52.9	118.9	31,200	54.5	116.4	31,500	100
105	48.5	115.6	28,600	50.3	114.4	29,000	51.9	111.9	29,300	105
110	45.8	110.7	26,700	47.6	109.5	27,000	49.1	106.9	27,200	110
115	43.0	105.4	24,900	44.7	104.1	25,100	46.2	101.4	25,400	115
120	40.0	99.5	23,300	41.7	98.2	23,500	43.0	95.2	23,700	120
125	36.8	92.9	21,800	38.4	91.5	22,000				125
130	33.3	85.5	20,400	34.9	83.9	20,500				130
135	29.4	76.9	19,100							135
140	25.1	66.7	17,900							140

MLC165-1 S-2

ASME B30.5



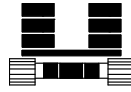
123,400 lb
+
45,100 lb



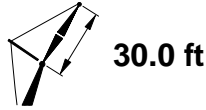
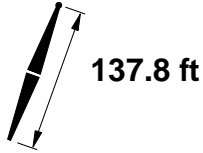
	5°			15°			25°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
40	78.1	160.6	55,100							40
45	76.3	159.4	55,100	78.2	158.5	55,100				45
50	74.4	157.9	55,100	76.3	157.1	55,100	78.2	155.1	45,400	50
55	72.5	156.4	55,100	74.4	155.5	55,100	76.2	153.5	43,600	55
60	70.5	154.6	55,100	72.4	153.7	55,100	74.3	151.7	41,900	60
65	68.6	152.6	55,100	70.5	151.7	54,600	72.3	149.7	40,400	65
70	66.6	150.4	51,000	68.5	149.5	51,800	70.3	147.4	39,000	70
75	64.6	148.1	46,300	66.4	147.1	47,000	68.2	145.0	37,800	75
80	62.6	145.5	42,300	64.4	144.5	42,900	66.1	142.4	36,600	80
85	60.5	142.6	38,800	62.3	141.6	39,300	64.0	139.5	35,600	85
90	58.3	139.5	35,700	60.1	138.5	36,200	61.8	136.3	34,600	90
95	56.2	136.2	32,900	57.9	135.2	33,400	59.6	132.9	33,700	95
100	53.9	132.6	30,500	55.7	131.5	30,900	57.3	129.1	31,300	100
105	51.6	128.6	28,300	53.3	127.5	28,700	54.9	125.1	29,000	105
110	49.2	124.3	26,400	50.9	123.2	26,700	52.4	120.6	27,000	110
115	46.7	119.6	24,600	48.4	118.4	24,900	49.9	115.8	25,100	115
120	44.1	114.5	22,900	45.8	113.3	23,200	47.2	110.5	23,400	120
125	41.4	108.9	21,500	43.0	107.6	21,700	44.3	104.7	21,900	125
130	38.5	102.7	20,100	40.1	101.3	20,300				130
135	35.4	95.8	18,800	37.0	94.3	19,000				135
140	32.1	88.0	17,600	33.5	86.3	17,800				140
145	28.3	79.0	16,500							145
150	24.1	68.4	15,500							150

MLC165-1 S-2

ASME B30.5



123,400 lb
+
45,100 lb



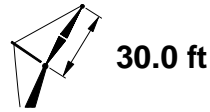
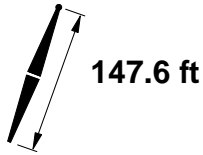
	5°			15°			25°			
	ft	°	ft	lb	ft	°	ft	lb	ft	
40	78.8		170.7	55,100						40
45	77.1		169.5	55,100	78.9	168.6	55,100			45
50	75.3		168.2	55,100	77.1	167.3	55,100	78.9	165.3	46,100
55	73.5		166.7	55,100	75.3	165.8	55,100	77.1	163.8	44,300
60	71.7		165.0	55,100	73.5	164.1	55,100	75.3	162.1	42,700
65	69.9		163.2	55,100	71.7	162.3	54,700	73.4	160.3	41,200
70	68.1		161.2	50,700	69.8	160.2	51,400	71.5	158.2	39,900
75	66.2		159.0	45,900	67.9	158.0	46,700	69.6	155.9	38,600
80	64.3		156.6	41,900	66.0	155.6	42,500	67.7	153.5	37,500
85	62.4		153.9	38,400	64.1	153.0	38,900	65.7	150.8	36,400
90	60.4		151.1	35,300	62.1	150.1	35,800	63.7	147.9	35,400
95	58.4		148.0	32,500	60.1	147.0	33,000	61.7	144.7	33,500
100	56.4		144.7	30,100	58.0	143.6	30,600	59.6	141.3	31,000
105	54.3		141.1	27,900	55.9	140.0	28,300	57.4	137.7	28,700
110	52.1		137.2	26,000	53.7	136.1	26,300	55.2	133.7	26,700
115	49.9		133.0	24,200	51.5	131.9	24,500	52.9	129.4	24,800
120	47.6		128.5	22,500	49.2	127.3	22,900	50.5	124.7	23,100
125	45.2		123.5	21,100	46.7	122.3	21,300	48.0	119.6	21,600
130	42.6		118.2	19,700	44.2	116.9	19,900	45.4	114.0	20,100
135	40.0		112.3	18,400	41.5	110.9	18,600			
140	37.2		105.8	17,300	38.7	104.3	17,400			
145	34.2		98.6	16,200	35.6	97.0	16,300			
150	30.9		90.4	15,200	32.3	88.7	15,300			
155	27.3		81.1	14,200						
160	23.2		70.0	13,300						

MLC165-1 S-2

ASME B30.5



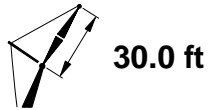
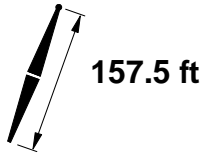
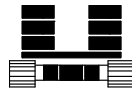
123,400 lb
+
45,100 lb



	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	55,100	74.5		174.5	55,100	76.1	60
65	71.1		173.7	55,100	72.8		172.8	54,700	74.4	65
70	69.4		171.8	50,800	71.0		170.9	51,600	72.6	70
75	67.6		169.7	46,100	69.3		168.8	46,800	70.9	75
80	65.8		167.5	42,100	67.5		166.5	42,700	69.1	80
85	64.0		165.1	38,500	65.7		164.1	39,100	67.2	85
90	62.2		162.4	35,500	63.8		161.4	36,000	65.4	90
95	60.4		159.6	32,700	62.0		158.6	33,200	63.5	95
100	58.5		156.5	30,300	60.1		155.5	30,700	61.5	100
105	56.5		153.2	28,100	58.1		152.1	28,500	59.6	105
110	54.6		149.7	26,100	56.1		148.6	26,500	57.5	110
115	52.5		145.8	24,400	54.1		144.7	24,700	55.5	115
120	50.4		141.7	22,700	52.0		140.6	23,100	53.3	120
125	48.3		137.3	21,300	49.8		136.1	21,500	51.1	125
130	46.1		132.5	19,900	47.5		131.2	20,200	48.8	130
135	43.7		127.3	18,600	45.2		126.0	18,900	46.4	135
140	41.3		121.7	17,500	42.7		120.3	17,700	43.9	140
145	38.7		115.5	16,400	40.1		114.1	16,600		145
150	36.0		108.7	15,400	37.4		107.2	15,500		150
155	33.1		101.2	14,400	34.4		99.5	14,600		155
160	29.9		92.7	13,500						160
165	26.4		83.0	12,700						165
170	22.3		71.5	11,900						170

MLC165-1 S-2

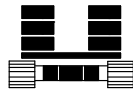
ASME B30.5



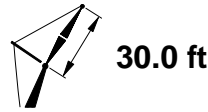
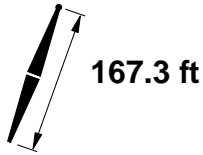
ft	5°			15°			25°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45	78.5	189.7	55,100							45
50	76.9	188.5	55,100	78.5	187.6	55,100				50
55	75.3	187.2	55,100	76.9	186.3	55,100	78.5	184.3	45,700	55
60	73.7	185.8	55,100	75.3	184.8	55,100	76.9	182.8	44,100	60
65	72.1	184.1	55,100	73.7	183.2	54,600	75.3	181.2	42,700	65
70	70.5	182.4	50,500	72.1	181.4	51,300	73.6	179.4	41,400	70
75	68.9	180.4	45,700	70.4	179.5	46,500	72.0	177.4	40,200	75
80	67.2	178.3	41,700	68.8	177.3	42,400	70.3	175.2	39,000	80
85	65.5	176.0	38,200	67.1	175.0	38,800	68.6	172.9	38,000	85
90	63.8	173.6	35,100	65.3	172.6	35,600	66.8	170.4	36,200	90
95	62.1	170.9	32,300	63.6	169.9	32,900	65.1	167.7	33,400	95
100	60.3	168.1	29,900	61.8	167.0	30,400	63.3	164.8	30,800	100
105	58.5	165.0	27,700	60.0	163.9	28,200	61.4	161.7	28,600	105
110	56.7	161.7	25,800	58.2	160.6	26,200	59.6	158.3	26,500	110
115	54.8	158.2	24,000	56.3	157.1	24,300	57.6	154.7	24,700	115
120	52.9	154.4	22,300	54.4	153.3	22,700	55.7	150.8	23,000	120
125	51.0	150.4	20,900	52.4	149.2	21,200	53.7	146.7	21,500	125
130	48.9	146.0	19,500	50.4	144.8	19,800	51.6	142.2	20,000	130
135	46.8	141.4	18,200	48.2	140.1	18,500	49.4	137.4	18,700	135
140	44.7	136.3	17,100	46.1	135.1	17,300	47.2	132.2	17,500	140
145	42.4	130.9	16,000	43.8	129.6	16,200	44.9	126.6	16,400	145
150	40.0	125.0	15,000	41.4	123.6	15,200				150
155	37.6	118.6	14,100	38.9	117.1	14,200				155
160	34.9	111.5	13,200	36.2	110.0	13,300				160
165	32.1	103.7	12,300	33.3	102.0	12,500				165
170	29.0	94.9	11,600							170
175	25.5	84.9	10,800							175
180	21.6	72.9	10,100							180

MLC165-1 S-2

ASME B30.5



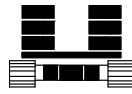
123,400 lb
+
45,100 lb



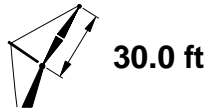
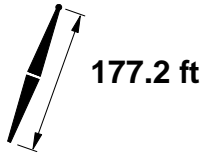
	5°			15°			25°			
	ft	°	ft	lb	ft	°	ft	lb	ft	
45	79.1		199.8	55,100						45
50	77.6		198.7	55,100	79.1	197.8	55,100			50
55	76.1		197.4	55,100	77.6	196.5	55,100	79.1	194.5	55
60	74.6		196.0	55,100	76.1	195.1	54,900	77.6	193.1	60
65	73.0		194.5	55,100	74.6	193.6	54,400	76.1	191.5	65
70	71.5		192.8	50,100	73.0	191.9	51,000	74.5	189.8	70
75	70.0		191.0	45,400	71.5	190.0	46,200	72.9	187.9	75
80	68.4		189.0	41,400	69.9	188.0	42,100	71.3	185.9	80
85	66.8		186.9	37,800	68.3	185.9	38,500	69.7	183.7	85
90	65.2		184.5	34,700	66.7	183.6	35,300	68.1	181.4	90
95	63.6		182.1	32,000	65.1	181.0	32,600	66.4	178.9	95
100	62.0		179.4	29,600	63.4	178.4	30,100	64.8	176.1	100
105	60.3		176.5	27,400	61.7	175.5	27,900	63.1	173.2	105
110	58.6		173.5	25,400	60.0	172.4	25,900	61.3	170.1	110
115	56.8		170.2	23,600	58.3	169.1	24,000	59.6	166.8	115
120	55.1		166.7	22,000	56.5	165.6	22,400	57.7	163.2	120
125	53.3		163.0	20,500	54.7	161.9	20,900	55.9	159.4	125
130	51.4		159.0	19,200	52.8	157.9	19,500	54.0	155.3	130
135	49.5		154.8	17,900	50.9	153.6	18,200	52.0	151.0	135
140	47.5		150.2	16,800	48.9	149.0	17,000	50.0	146.3	140
145	45.5		145.3	15,700	46.8	144.0	15,900	47.9	141.2	145
150	43.4		140.1	14,700	44.7	138.7	14,900	45.8	135.8	150
155	41.2		134.4	13,700	42.5	133.0	13,900	43.5	130.0	155
160	38.9		128.3	12,900	40.2	126.8	13,000			160
165	36.5		121.6	12,000	37.7	120.1	12,200			165
170	33.9		114.3	11,300	35.1	112.6	11,400			170
175	31.1		106.2	10,500	32.3	104.4	10,600			175
180	28.1		97.1	9,800						180
185	24.8		86.6	9,200						185
190	20.9		74.2	8,500						190

MLC165-1 S-2

ASME B30.5



123,400 lb
+
45,100 lb



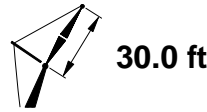
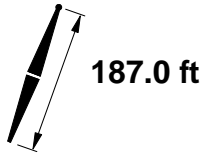
ft	5°			15°			25°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45	79.6	209.8	55,100							45
50	78.2	208.8	55,100	79.6	207.9	55,100				50
55	76.7	207.6	55,100	78.2	206.7	55,100	79.7	204.6	46,900	55
60	75.3	206.3	55,100	76.8	205.3	54,600	78.2	203.3	45,400	60
65	73.9	204.8	55,100	75.3	203.9	54,100	76.7	201.8	44,000	65
70	72.4	203.2	49,800	73.9	202.3	50,700	75.3	200.2	42,700	70
75	71.0	201.5	45,000	72.4	200.5	45,900	73.8	198.4	41,500	75
80	69.5	199.6	41,000	70.9	198.6	41,700	72.3	196.5	40,400	80
85	68.0	197.6	37,400	69.4	196.6	38,100	70.8	194.5	38,800	85
90	66.5	195.4	34,400	67.9	194.4	35,000	69.2	192.3	35,600	90
95	65.0	193.1	31,600	66.3	192.1	32,200	67.7	189.9	32,800	95
100	63.4	190.5	29,200	64.8	189.5	29,700	66.1	187.3	30,200	100
105	61.8	187.9	27,000	63.2	186.8	27,500	64.5	184.6	28,000	105
110	60.2	185.0	25,000	61.6	184.0	25,500	62.9	181.7	25,900	110
115	58.6	182.0	23,200	60.0	180.9	23,700	61.2	178.6	24,100	115
120	57.0	178.7	21,600	58.3	177.6	22,000	59.5	175.3	22,400	120
125	55.3	175.2	20,100	56.6	174.1	20,500	57.8	171.7	20,800	125
130	53.6	171.6	18,800	54.9	170.4	19,100	56.1	168.0	19,400	130
135	51.8	167.6	17,500	53.1	166.5	17,800	54.3	163.9	18,100	135
140	50.0	163.5	16,400	51.3	162.3	16,600	52.4	159.7	16,900	140
145	48.2	159.0	15,300	49.4	157.8	15,500	50.5	155.1	15,800	145
150	46.2	154.2	14,300	47.5	153.0	14,500	48.6	150.2	14,700	150
155	44.3	149.1	13,300	45.5	147.8	13,600	46.5	144.9	13,700	155
160	42.2	143.7	12,500	43.4	142.3	12,700	44.4	139.3	12,800	160
165	40.1	137.8	11,600	41.3	136.3	11,800				165
170	37.8	131.4	10,900	39.0	129.9	11,000				170
175	35.5	124.5	10,100	36.6	122.9	10,300				175
180	33.0	116.9	9,500	34.1	115.2	9,600				180
185	30.3	108.5	8,800	31.3	106.7	8,900				185
190	27.3	99.1	8,200							190
195	24.0	88.3	7,600							195

MLC165-1 S-2

ASME B30.5



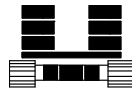
123,400 lb
+
45,100 lb



	5°			15°			25°			
	ft	°	ft	lb	ft	°	ft	lb	ft	
50	78.7		218.8	55,100						50
55	77.4		217.7	55,100	78.8	216.8	54,700			55
60	76.0		216.5	55,100	77.4	215.5	54,200	78.8	213.5	45,900
65	74.6		215.1	55,100	76.0	214.1	53,700	77.4	212.1	44,600
70	73.2		213.6	49,500	74.6	212.6	50,400	76.0	210.5	43,300
75	71.9		211.9	44,800	73.2	211.0	45,600	74.6	208.9	42,100
80	70.5		210.1	40,700	71.8	209.2	41,500	73.1	207.1	41,000
85	69.0		208.2	37,200	70.4	207.2	37,900	71.7	205.1	38,600
90	67.6		206.1	34,100	69.0	205.2	34,700	70.3	203.0	35,400
95	66.2		203.9	31,300	67.5	202.9	32,000	68.8	200.8	32,500
100	64.7		201.6	28,900	66.0	200.6	29,500	67.3	198.4	30,000
105	63.2		199.0	26,700	64.5	198.0	27,200	65.8	195.8	27,700
110	61.7		196.3	24,800	63.0	195.3	25,200	64.3	193.0	25,700
115	60.2		193.5	23,000	61.5	192.4	23,400	62.7	190.1	23,900
120	58.7		190.4	21,300	60.0	189.4	21,800	61.1	187.0	22,200
125	57.1		187.2	19,900	58.4	186.1	20,300	59.5	183.7	20,600
130	55.5		183.8	18,500	56.8	182.7	18,900	57.9	180.2	19,200
135	53.8		180.1	17,200	55.1	179.0	17,600	56.2	176.5	17,900
140	52.2		176.2	16,100	53.4	175.1	16,400	54.5	172.5	16,700
145	50.5		172.1	15,000	51.7	170.9	15,300	52.8	168.3	15,600
150	48.7		167.8	14,000	49.9	166.5	14,300	51.0	163.9	14,500
155	46.9		163.1	13,100	48.1	161.8	13,300	49.1	159.1	13,500
160	45.0		158.1	12,200	46.2	156.8	12,400	47.2	154.0	12,600
165	43.1		152.8	11,400	44.3	151.5	11,600	45.2	148.5	11,800
170	41.1		147.1	10,600	42.3	145.7	10,800	43.2	142.7	10,900
175	39.0		141.0	9,900	40.2	139.6	10,100			
180	36.9		134.4	9,200	38.0	132.9	9,400			
185	34.5		127.3	8,600	35.6	125.6	8,700			
190	32.1		119.4	7,900	33.1	117.7	8,100			
195	29.4		110.8	7,400						
200	26.6		101.1	6,800						
205	23.3		89.9	6,300						

MLC165-1 S-2

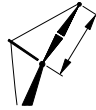
ASME B30.5



123,400 lb
+
45,100 lb



196.9 ft

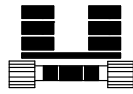


30.0 ft

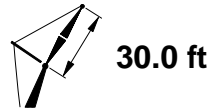
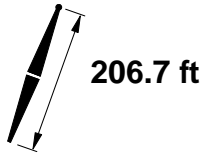
ft	5°			15°			25°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50	79.2	228.9	55,100							50
55	77.9	227.8	55,100	79.3	226.9	54,100				55
60	76.6	226.6	55,100	77.9	225.7	53,600	79.3	223.6	46,500	60
65	75.3	225.3	54,800	76.6	224.4	53,200	78.0	222.3	45,100	65
70	74.0	223.9	49,200	75.3	222.9	50,100	76.6	220.8	43,900	70
75	72.7	222.3	44,400	74.0	221.3	45,300	75.3	219.2	42,700	75
80	71.3	220.6	40,300	72.6	219.6	41,200	73.9	217.5	41,600	80
85	70.0	218.8	36,800	71.3	217.8	37,600	72.6	215.7	38,300	85
90	68.6	216.8	33,700	69.9	215.8	34,400	71.2	213.7	35,100	90
95	67.3	214.7	31,000	68.6	213.7	31,600	69.8	211.5	32,200	95
100	65.9	212.5	28,500	67.2	211.5	29,100	68.4	209.3	29,700	100
105	64.5	210.1	26,300	65.8	209.1	26,900	67.0	206.8	27,400	105
110	63.1	207.5	24,400	64.3	206.5	24,900	65.5	204.2	25,400	110
115	61.6	204.8	22,600	62.9	203.8	23,100	64.1	201.5	23,500	115
120	60.2	202.0	21,000	61.4	200.9	21,400	62.6	198.6	21,800	120
125	58.7	198.9	19,500	59.9	197.8	19,900	61.1	195.5	20,300	125
130	57.2	195.7	18,100	58.4	194.6	18,500	59.5	192.2	18,900	130
135	55.7	192.3	16,900	56.9	191.2	17,200	58.0	188.7	17,500	135
140	54.1	188.7	15,700	55.3	187.5	16,000	56.4	185.0	16,300	140
145	52.5	184.8	14,600	53.7	183.7	14,900	54.8	181.1	15,200	145
150	50.9	180.8	13,600	52.1	179.6	13,900	53.1	177.0	14,200	150
155	49.2	176.5	12,700	50.4	175.3	12,900	51.4	172.6	13,200	155
160	47.5	171.9	11,800	48.7	170.7	12,100	49.7	167.9	12,300	160
165	45.8	167.1	11,000	46.9	165.8	11,200	47.8	162.9	11,400	165
170	43.9	161.9	10,200	45.1	160.6	10,400	46.0	157.6	10,600	170
175	42.1	156.4	9,500	43.2	155.0	9,700	44.0	152.0	9,800	175
180	40.1	150.5	8,800	41.2	149.1	9,000				180
185	38.1	144.2	8,200	39.1	142.7	8,300				185
190	35.9	137.4	7,600	37.0	135.8	7,700				190
195	33.7	130.0	7,000	34.7	128.3	7,100				195
200	31.3	121.9	6,400	32.3	120.1	6,500				200
205	28.7	113.0	5,900							205
210	25.9	102.9	5,400							210
215	22.7	91.5	4,800							215

MLC165-1 S-2

ASME B30.5



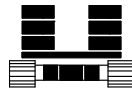
123,400 lb
+
45,100 lb



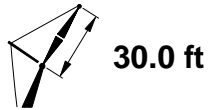
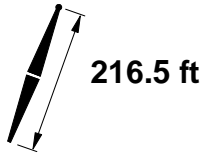
	5°			15°			25°			
	ft	°	ft	lb	ft	°	ft	lb	ft	
50	79.7		238.9	55,100						50
55	78.4		237.9	55,100						55
60	77.2		236.8	55,100	78.5	235.8	53,000			60
65	75.9		235.5	54,400	77.2	234.6	52,600	78.5	232.5	45,600
70	74.7		234.1	48,800	75.9	233.2	49,800	77.2	231.1	44,400
75	73.4		232.6	44,100	74.7	231.7	45,000	75.9	229.6	43,300
80	72.1		231.0	40,000	73.4	230.0	40,900	74.6	227.9	41,700
85	70.9		229.3	36,500	72.1	228.3	37,200	73.3	226.2	38,000
90	69.6		227.4	33,400	70.8	226.4	34,100	72.0	224.3	34,800
95	68.3		225.4	30,600	69.5	224.4	31,300	70.7	222.2	31,900
100	67.0		223.3	28,200	68.2	222.3	28,800	69.4	220.1	29,400
105	65.6		221.0	26,000	66.8	220.0	26,600	68.0	217.8	27,100
110	64.3		218.6	24,000	65.5	217.6	24,600	66.6	215.3	25,100
115	62.9		216.0	22,200	64.1	215.0	22,700	65.3	212.7	23,200
120	61.5		213.3	20,600	62.7	212.3	21,100	63.9	210.0	21,500
125	60.1		210.4	19,100	61.3	209.4	19,600	62.4	207.0	20,000
130	58.7		207.4	17,800	59.9	206.3	18,200	61.0	203.9	18,600
135	57.3		204.2	16,500	58.5	203.1	16,900	59.5	200.7	17,200
140	55.8		200.8	15,300	57.0	199.7	15,700	58.0	197.2	16,000
145	54.3		197.2	14,300	55.5	196.1	14,600	56.5	193.6	14,900
150	52.8		193.4	13,300	54.0	192.3	13,600	55.0	189.7	13,900
155	51.3		189.4	12,300	52.4	188.2	12,600	53.4	185.6	12,900
160	49.7		185.2	11,500	50.8	184.0	11,700	51.8	181.3	12,000
165	48.1		180.7	10,600	49.2	179.5	10,900	50.1	176.7	11,100
170	46.4		176.0	9,900	47.5	174.7	10,100	48.4	171.9	10,300
175	44.7		170.9	9,200	45.8	169.6	9,400	46.6	166.7	9,500
180	42.9		165.6	8,500	44.0	164.2	8,700	44.8	161.2	8,800
185	41.1		159.9	7,800	42.1	158.5	8,000	42.9	155.3	8,100
190	39.2		153.8	7,200	40.2	152.3	7,400			
195	37.2		147.3	6,600	38.2	145.7	6,800			
200	35.1		140.2	6,100	36.1	138.6	6,200			
205	32.9		132.6	5,500	33.8	130.9	5,700			
210	30.5		124.3	4,900	31.4	122.4	5,100			
215	28.0		115.1	4,400						

MLC165-1 S-2

ASME B30.5



123,400 lb
+
45,100 lb



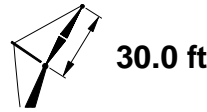
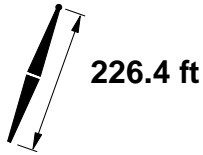
ft	5°			15°			25°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55	78.9	248.0	55,100							55
60	77.7	246.9	55,100	78.9	245.9	52,200				60
65	76.5	245.7	54,100	77.7	244.7	51,800	79.0	242.6	46,100	65
70	75.3	244.3	48,500	76.5	243.4	49,500	77.7	241.3	44,900	70
75	74.1	242.9	43,700	75.3	242.0	44,700	76.5	239.9	43,800	75
80	72.9	241.4	39,600	74.1	240.4	40,500	75.3	238.3	41,400	80
85	71.7	239.7	36,100	72.9	238.7	36,900	74.0	236.6	37,700	85
90	70.4	237.9	33,000	71.6	236.9	33,700	72.8	234.8	34,500	90
95	69.2	236.0	30,200	70.4	235.0	30,900	71.5	232.9	31,600	95
100	67.9	234.0	27,800	69.1	233.0	28,400	70.3	230.8	29,100	100
105	66.7	231.8	25,600	67.8	230.8	26,200	69.0	228.6	26,800	105
110	65.4	229.5	23,600	66.6	228.5	24,200	67.7	226.3	24,700	110
115	64.1	227.1	21,800	65.3	226.1	22,400	66.4	223.8	22,900	115
120	62.8	224.5	20,200	63.9	223.5	20,700	65.0	221.2	21,200	120
125	61.5	221.8	18,700	62.6	220.7	19,200	63.7	218.4	19,600	125
130	60.1	218.9	17,400	61.3	217.8	17,800	62.3	215.5	18,200	130
135	58.8	215.9	16,100	59.9	214.8	16,500	60.9	212.4	16,900	135
140	57.4	212.7	15,000	58.5	211.6	15,300	59.5	209.2	15,700	140
145	56.0	209.3	13,900	57.1	208.2	14,200	58.1	205.7	14,600	145
150	54.5	205.7	12,900	55.7	204.6	13,200	56.7	202.1	13,500	150
155	53.1	202.0	11,900	54.2	200.8	12,300	55.2	198.3	12,500	155
160	51.6	198.0	11,100	52.7	196.9	11,400	53.7	194.3	11,600	160
165	50.1	193.9	10,200	51.2	192.7	10,500	52.1	190.0	10,800	165
170	48.6	189.5	9,500	49.6	188.2	9,700	50.5	185.5	10,000	170
175	47.0	184.8	8,800	48.0	183.5	9,000	48.9	180.7	9,200	175
180	45.3	179.9	8,100	46.4	178.6	8,300	47.2	175.7	8,500	180
185	43.7	174.7	7,400	44.7	173.3	7,600	45.5	170.4	7,800	185
190	41.9	169.2	6,800	42.9	167.8	7,000	43.7	164.7	7,100	190
195	40.1	163.3	6,200	41.1	161.8	6,400				195
200	38.3	157.0	5,600	39.3	155.5	5,800				200
205	36.3	150.3	5,000	37.3	148.7	5,200				205
210	34.3	143.0	4,400	35.2	141.3	4,500				210
215				33.0	133.4	4,000				215

MLC165-1 S-2

ASME B30.5



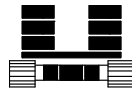
123,400 lb
+
45,100 lb



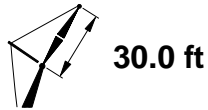
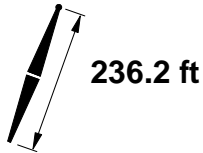
	5°			15°			25°			
	ft	°	ft	lb	ft	°	ft	lb	ft	
55	79.3		258.0	53,900						55
60	78.2		257.0	53,300	79.4	256.0	51,300			60
65	77.0		255.8	52,700	78.2	254.8	50,900	79.4	252.8	46,600
70	75.9		254.5	48,200	77.1	253.6	49,300	78.2	251.5	45,400
75	74.7		253.2	43,400	75.9	252.2	44,400	77.1	250.1	44,300
80	73.6		251.7	39,400	74.7	250.7	40,300	75.9	248.6	41,200
85	72.4		250.1	35,800	73.5	249.1	36,600	74.7	247.0	37,500
90	71.2		248.4	32,700	72.4	247.4	33,500	73.5	245.3	34,200
95	70.0		246.6	30,000	71.2	245.6	30,700	72.3	243.4	31,400
100	68.8		244.6	27,500	70.0	243.6	28,200	71.1	241.4	28,800
105	67.6		242.5	25,300	68.7	241.5	25,900	69.8	239.3	26,600
110	66.4		240.4	23,300	67.5	239.3	23,900	68.6	237.1	24,500
115	65.2		238.0	21,600	66.3	237.0	22,100	67.4	234.8	22,600
120	63.9		235.6	19,900	65.0	234.5	20,400	66.1	232.3	20,900
125	62.7		233.0	18,400	63.8	231.9	18,900	64.8	229.7	19,400
130	61.4		230.3	17,100	62.5	229.2	17,500	63.5	226.9	18,000
135	60.1		227.4	15,800	61.2	226.3	16,200	62.2	224.0	16,600
140	58.8		224.4	14,700	59.9	223.3	15,100	60.9	220.9	15,400
145	57.5		221.2	13,600	58.5	220.1	14,000	59.5	217.6	14,300
150	56.1		217.8	12,600	57.2	216.7	12,900	58.2	214.2	13,300
155	54.7		214.3	11,600	55.8	213.1	12,000	56.8	210.6	12,300
160	53.4		210.6	10,800	54.4	209.4	11,100	55.4	206.8	11,400
165	51.9		206.7	10,000	53.0	205.5	10,200	53.9	202.9	10,500
170	50.5		202.5	9,200	51.5	201.3	9,500	52.4	198.7	9,700
175	49.0		198.2	8,500	50.0	197.0	8,700	50.9	194.2	8,900
180	47.5		193.6	7,800	48.5	192.4	8,000	49.4	189.6	8,200
185	45.9		188.8	7,100	47.0	187.5	7,400	47.8	184.7	7,500
190	44.3		183.7	6,500	45.4	182.4	6,700	46.2	179.4	6,900
195	42.7		178.3	5,800	43.7	177.0	6,100	44.5	173.9	6,300
200	41.0		172.6	5,200	42.0	171.2	5,400			200
205	39.2		166.6	4,600	40.2	165.1	4,800			205
210	37.4		160.1	4,000	38.4	158.5	4,200			210

MLC165-1 S-2

ASME B30.5



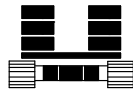
123,400 lb
+
45,100 lb



ft	5°			15°			25°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
60	78.6	267.0	52,600							60
65	77.5	265.9	52,400	78.7	265.0	50,500				65
70	76.4	264.7	47,700	77.6	263.7	48,900	78.7	261.6	45,300	70
75	75.3	263.4	43,000	76.4	262.4	44,000	77.6	260.3	44,400	75
80	74.2	262.0	38,900	75.3	261.0	39,800	76.4	258.9	40,800	80
85	73.1	260.4	35,300	74.2	259.5	36,200	75.3	257.3	37,100	85
90	71.9	258.8	32,200	73.0	257.8	33,000	74.1	255.7	33,800	90
95	70.8	257.0	29,400	71.9	256.1	30,200	73.0	253.9	31,000	95
100	69.6	255.2	27,000	70.7	254.2	27,700	71.8	252.0	28,400	100
105	68.5	253.2	24,800	69.6	252.2	25,500	70.6	250.0	26,100	105
110	67.3	251.1	22,800	68.4	250.1	23,400	69.5	247.9	24,000	110
115	66.1	248.9	21,000	67.2	247.9	21,600	68.3	245.6	22,200	115
120	65.0	246.6	19,400	66.0	245.5	19,900	67.1	243.3	20,500	120
125	63.8	244.1	17,900	64.8	243.0	18,400	65.8	240.8	18,900	125
130	62.5	241.5	16,500	63.6	240.4	17,000	64.6	238.1	17,500	130
135	61.3	238.7	15,300	62.4	237.7	15,700	63.4	235.3	16,200	135
140	60.1	235.9	14,100	61.1	234.8	14,500	62.1	232.4	14,900	140
145	58.8	232.8	13,000	59.9	231.7	13,400	60.8	229.3	13,800	145
150	57.5	229.7	12,000	58.6	228.5	12,400	59.5	226.1	12,800	150
155	56.2	226.3	11,100	57.3	225.2	11,500	58.2	222.7	11,800	155
160	54.9	222.8	10,200	56.0	221.7	10,600	56.9	219.2	10,900	160
165	53.6	219.1	9,400	54.6	218.0	9,700	55.5	215.4	10,000	165
170	52.2	215.3	8,600	53.2	214.1	8,900	54.1	211.5	9,200	170
175	50.8	211.2	7,900	51.9	210.0	8,200	52.7	207.3	8,400	175
180	49.4	206.9	7,200	50.4	205.7	7,500	51.3	203.0	7,700	180
185	48.0	202.4	6,400	49.0	201.2	6,800	49.8	198.4	7,000	185
190	46.5	197.7	5,700	47.5	196.4	6,000	48.3	193.6	6,300	190
195	45.0	192.7	5,100	45.9	191.4	5,300	46.7	188.5	5,500	195
200	43.4	187.5	4,400	44.4	186.1	4,700	45.1	183.1	4,900	200
205				42.8	180.5	4,000	43.5	177.4	4,200	205

MLC165-1 S-2

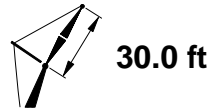
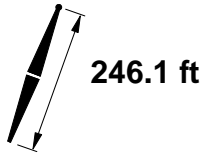
ASME B30.5



123,400 lb
+
45,100 lb



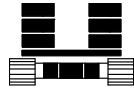
360°



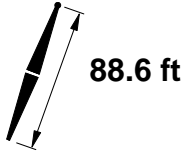
	5°			15°			25°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
60	79.0	277.1	48,000							60
65	78.0	276.0	47,800	79.1	275.1	48,300				65
70	76.9	274.8	47,400	78.0	273.9	48,000	79.1	271.8	46,100	70
75	75.8	273.6	42,600	76.9	272.6	43,700	78.0	270.5	44,800	75
80	74.8	272.2	38,500	75.9	271.2	39,500	76.9	269.1	40,500	80
85	73.7	270.7	35,000	74.8	269.8	35,900	75.8	267.6	36,800	85
90	72.6	269.2	31,900	73.7	268.2	32,700	74.7	266.0	33,500	90
95	71.5	267.5	29,100	72.6	266.5	29,900	73.6	264.3	30,700	95
100	70.4	265.7	26,700	71.5	264.7	27,400	72.5	262.5	28,100	100
105	69.3	263.8	24,500	70.4	262.8	25,100	71.4	260.6	25,800	105
110	68.2	261.8	22,500	69.2	260.8	23,100	70.2	258.6	23,700	110
115	67.0	259.7	20,700	68.1	258.7	21,300	69.1	256.4	21,900	115
120	65.9	257.4	19,100	67.0	256.4	19,600	68.0	254.2	20,200	120
125	64.8	255.1	17,600	65.8	254.0	18,100	66.8	251.8	18,600	125
130	63.6	252.6	16,200	64.6	251.5	16,700	65.6	249.2	17,200	130
135	62.4	250.0	14,900	63.5	248.9	15,400	64.4	246.6	15,900	135
140	61.2	247.2	13,800	62.3	246.2	14,200	63.2	243.8	14,600	140
145	60.0	244.3	12,700	61.1	243.3	13,100	62.0	240.9	13,500	145
150	58.8	241.3	11,700	59.9	240.2	12,100	60.8	237.8	12,400	150
155	57.6	238.1	10,700	58.6	237.0	11,100	59.5	234.6	11,500	155
160	56.4	234.8	9,900	57.4	233.7	10,200	58.3	231.2	10,500	160
165	55.1	231.3	9,100	56.1	230.2	9,400	57.0	227.7	9,700	165
170	53.8	227.7	8,300	54.8	226.5	8,600	55.7	224.0	8,900	170
175	52.5	223.9	7,500	53.5	222.7	7,900	54.3	220.1	8,100	175
180	51.2	219.8	6,700	52.1	218.6	7,000	53.0	216.0	7,400	180
185	49.8	215.6	5,900	50.8	214.4	6,300	51.6	211.7	6,600	185
190	48.4	211.2	5,200	49.4	209.9	5,500	50.2	207.2	5,800	190
195	47.0	206.6	4,500	48.0	205.3	4,800	48.7	202.4	5,100	195
200				46.5	200.3	4,200	47.3	197.4	4,400	200

MLC165-1 S-2

ASME B30.5



123,400 lb
+
45,100 lb



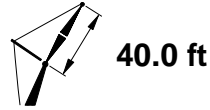
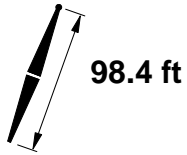
ft	5°			15°			25°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
35	78.4	131.5	52,700							35
40	76.1	130.2	51,300	79.2	129.1	47,700				40
45	73.8	128.6	50,000	76.9	127.5	46,800				45
50	71.4	126.9	48,700	74.5	125.8	46,000	77.6	123.4	35,400	50
55	69.0	124.9	47,600	72.1	123.7	45,200	75.1	121.3	33,700	55
60	66.6	122.6	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	44,700	64.5	116.1	41,200	67.4	113.5	29,600	70
75	58.9	114.2	43,900	61.8	112.9	39,000	64.7	110.2	28,500	75
80	56.2	110.7	43,100	59.1	109.4	37,100	61.9	106.7	27,500	80
85	53.4	106.9	40,600	56.2	105.6	35,300	58.9	102.7	26,600	85
90	50.5	102.7	37,500	53.3	101.3	33,800	55.9	98.3	25,700	90
95	47.4	98.0	34,800	50.2	96.5	32,400	52.7	93.4	25,000	95
100	44.2	92.8	32,300	46.9	91.2	31,100	49.3	87.8	24,400	100
105	40.7	86.9	30,100	43.4	85.2	30,000	45.6	81.5	23,800	105
110	37.0	80.2	28,100	39.6	78.3	28,400				110
115	32.9	72.5	26,300	35.3	70.4	26,500				115
120	28.2	63.2	24,700							120
125	22.6	51.6	23,100							125

MLC165-1 S-2

ASME B30.5



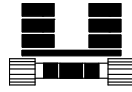
123,400 lb
+
45,100 lb



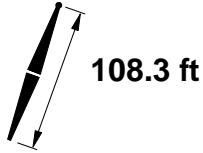
	5°			15°			25°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
35	79.3	141.6	52,900							35
40	77.1	140.4	51,600							40
45	75.0	139.0	50,400	77.9	137.8	47,100				45
50	72.8	137.3	49,200	75.7	136.2	46,300	78.6	133.8	36,100	50
55	70.6	135.5	48,100	73.4	134.3	45,600	76.3	131.9	34,400	55
60	68.3	133.4	47,200	71.2	132.2	44,900	74.0	129.7	32,900	60
65	66.1	131.1	46,200	68.9	129.9	44,300	71.6	127.4	31,600	65
70	63.7	128.6	45,400	66.5	127.3	43,100	69.2	124.7	30,400	70
75	61.4	125.8	44,600	64.1	124.5	40,900	66.8	121.8	29,300	75
80	58.9	122.7	43,700	61.6	121.4	38,900	64.3	118.6	28,300	80
85	56.4	119.3	40,200	59.1	117.9	37,100	61.7	115.1	27,400	85
90	53.8	115.5	37,100	56.5	114.1	35,500	59.0	111.2	26,600	90
95	51.1	111.4	34,400	53.8	110.0	34,000	56.2	106.9	25,800	95
100	48.4	106.9	31,900	50.9	105.4	32,300	53.3	102.2	25,100	100
105	45.4	101.9	29,700	48.0	100.3	30,100	50.2	96.9	24,500	105
110	42.3	96.3	27,700	44.8	94.6	28,100	46.9	91.0	24,000	110
115	39.0	90.1	25,900	41.4	88.2	26,200				115
120	35.4	83.0	24,300	37.7	81.0	24,500				120
125	31.5	74.8	22,800	33.7	72.6	23,000				125
130	26.9	65.1	21,400							130

MLC165-1 S-2

ASME B30.5



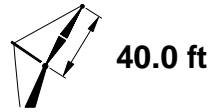
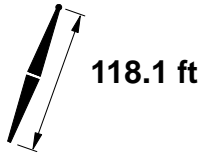
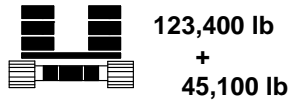
123,400 lb
+
45,100 lb



	5°			15°			25°			
	ft	°	ft	lb	ft	°	ft	lb	ft	
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
55	71.9		146.0	48,600	74.6	144.8	45,800	77.3	142.3	35,100
60	69.9		144.1	47,600	72.5	142.9	45,200	75.2	140.4	33,700
65	67.8		142.0	46,700	70.4	140.8	44,700	73.0	138.2	32,400
70	65.6		139.6	45,900	68.2	138.4	44,100	70.8	135.8	31,200
75	63.5		137.1	45,100	66.0	135.8	42,700	68.6	133.1	30,100
80	61.2		134.2	43,500	63.8	132.9	40,600	66.3	130.2	29,100
85	59.0		131.1	40,000	61.5	129.8	38,800	63.9	127.0	28,200
90	56.6		127.8	36,900	59.1	126.4	37,100	61.5	123.5	27,300
95	54.2		124.1	34,100	56.7	122.7	34,600	59.0	119.7	26,600
100	51.7		120.1	31,700	54.2	118.6	32,200	56.4	115.5	25,900
105	49.2		115.7	29,500	51.6	114.1	29,900	53.7	110.9	25,200
110	46.5		110.8	27,500	48.8	109.2	27,900	50.9	105.9	24,700
115	43.7		105.5	25,700	46.0	103.8	26,100	48.0	100.3	24,200
120	40.7		99.6	24,100	42.9	97.8	24,400	44.8	94.0	23,700
125	37.5		93.1	22,600	39.7	91.1	22,800			
130	34.0		85.6	21,200	36.1	83.5	21,400			
135	30.2		77.1	19,900						
140	25.8		66.9	18,700						

MLC165-1 S-2

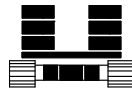
ASME B30.5



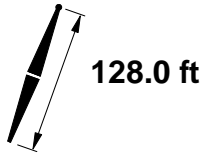
	5°			15°			25°			
	ft	°	ft	lb	ft	°	ft	lb	ft	
40	78.8		160.7	51,900						40
45	76.9		159.4	50,800	79.4	158.2	47,300			45
50	75.0		158.0	49,800	77.5	156.8	46,600			50
55	73.1		156.4	48,800	75.6	155.2	46,000	78.1	152.7	35,700
60	71.2		154.6	48,000	73.7	153.4	45,400	76.2	150.9	34,300
65	69.2		152.7	47,100	71.7	151.4	44,800	74.2	148.8	33,000
70	67.3		150.5	46,300	69.7	149.3	44,300	72.1	146.6	31,900
75	65.3		148.1	45,500	67.7	146.9	43,900	70.1	144.2	30,800
80	63.2		145.5	43,100	65.6	144.2	42,300	68.0	141.5	29,800
85	61.1		142.7	39,600	63.5	141.4	40,300	65.8	138.6	28,900
90	59.0		139.6	36,500	61.4	138.3	37,100	63.6	135.4	28,100
95	56.8		136.3	33,700	59.2	134.9	34,300	61.4	131.9	27,300
100	54.6		132.6	31,300	56.9	131.2	31,800	59.0	128.2	26,600
105	52.3		128.7	29,100	54.6	127.2	29,600	56.6	124.1	25,900
110	49.9		124.4	27,100	52.1	122.9	27,500	54.2	119.6	25,300
115	47.4		119.7	25,300	49.6	118.1	25,700	51.6	114.7	24,800
120	44.8		114.6	23,700	47.0	113.0	24,000	48.8	109.4	24,300
125	42.1		109.0	22,200	44.2	107.3	22,500	46.0	103.5	22,700
130	39.2		102.8	20,800	41.3	100.9	21,100			
135	36.1		95.9	19,500	38.1	93.9	19,800			
140	32.7		88.1	18,400	34.7	85.9	18,500			
145	29.0		79.2	17,200						
150	24.8		68.6	16,200						

MLC165-1 S-2

ASME B30.5



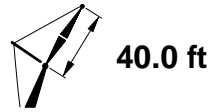
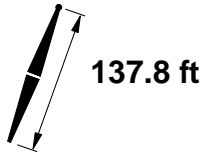
123,400 lb
+
45,100 lb



	5°			15°			25°			
	ft	°	ft	lb	ft	°	ft	lb	ft	
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
60	72.3		165.1	48,200	74.7	163.9	45,500	77.0	161.3	34,900
65	70.5		163.3	47,400	72.8	162.0	45,100	75.2	159.4	33,700
70	68.7		161.3	46,600	71.0	160.0	44,500	73.3	157.3	32,500
75	66.8		159.0	45,900	69.1	157.8	44,100	71.4	155.1	31,500
80	64.9		156.6	42,800	67.2	155.3	43,600	69.4	152.6	30,500
85	63.0		154.0	39,200	65.3	152.7	40,000	67.4	149.9	29,600
90	61.0		151.2	36,100	63.3	149.8	36,800	65.4	147.0	28,700
95	59.0		148.1	33,400	61.2	146.7	34,000	63.4	143.8	28,000
100	57.0		144.8	31,000	59.2	143.4	31,500	61.2	140.4	27,300
105	54.9		141.2	28,800	57.1	139.7	29,300	59.1	136.7	26,600
110	52.7		137.3	26,800	54.9	135.8	27,300	56.8	132.6	26,000
115	50.5		133.1	25,000	52.6	131.6	25,400	54.5	128.3	25,400
120	48.2		128.6	23,400	50.3	127.0	23,700	52.1	123.6	24,100
125	45.8		123.6	21,900	47.8	122.0	22,200	49.6	118.4	22,500
130	43.3		118.3	20,500	45.3	116.5	20,800	47.0	112.8	21,100
135	40.6		112.4	19,200	42.6	110.5	19,500	44.2	106.6	19,700
140	37.8		105.9	18,000	39.8	103.9	18,300			
145	34.8		98.7	17,000	36.7	96.5	17,200			
150	31.6		90.6	15,900	33.4	88.2	16,100			
155	28.0		81.2	15,000						
160	23.8		70.1	14,100						

MLC165-1 S-2

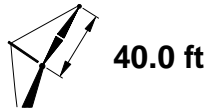
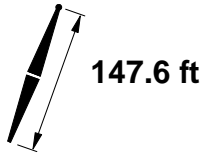
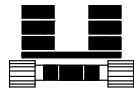
ASME B30.5



	5°			15°			25°			
	ft	°	ft	lb	ft	°	ft	lb	ft	
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
60	73.4		175.5	48,300	75.6	174.3	45,600	77.8	171.6	35,500
65	71.7		173.8	47,600	73.9	172.5	45,100	76.1	169.9	34,300
70	69.9		171.9	46,900	72.1	170.6	44,700	74.3	167.9	33,100
75	68.2		169.8	46,200	70.4	168.5	44,200	72.5	165.8	32,100
80	66.4		167.6	42,400	68.6	166.3	43,200	70.7	163.5	31,100
85	64.6		165.1	38,800	66.8	163.8	39,600	68.9	161.0	30,200
90	62.8		162.5	35,700	64.9	161.1	36,500	67.0	158.3	29,400
95	60.9		159.7	33,000	63.1	158.3	33,600	65.1	155.4	28,600
100	59.0		156.6	30,500	61.1	155.2	31,200	63.1	152.2	27,900
105	57.1		153.3	28,400	59.2	151.9	28,900	61.1	148.8	27,200
110	55.1		149.7	26,400	57.2	148.3	26,900	59.1	145.2	26,600
115	53.1		145.9	24,600	55.1	144.4	25,100	57.0	141.2	25,500
120	51.0		141.8	23,000	53.0	140.2	23,400	54.8	136.9	23,800
125	48.9		137.4	21,500	50.8	135.8	21,900	52.6	132.3	22,200
130	46.6		132.6	20,100	48.6	130.9	20,400	50.3	127.3	20,800
135	44.3		127.4	18,800	46.2	125.6	19,100	47.8	121.9	19,400
140	41.9		121.8	17,600	43.8	119.9	17,900	45.3	116.0	18,200
145	39.3		115.6	16,600	41.2	113.7	16,800			
150	36.6		108.8	15,500	38.4	106.8	15,800			
155	33.7		101.3	14,600	35.4	99.1	14,800			
160	30.5		92.9	13,700						
165	27.0		83.2	12,900						
170	23.0		71.6	12,100						

MLC165-1 S-2

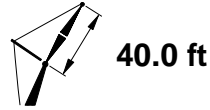
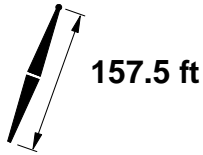
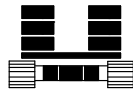
ASME B30.5



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	47,700	74.7	182.9	45,100	76.9	180.3	34,800	65
70	71.0	182.4	47,000	73.1	181.1	44,700	75.2	178.4	33,700	70
75	69.4	180.5	46,300	71.5	179.2	44,400	73.5	176.5	32,700	75
80	67.7	178.4	42,500	69.8	177.1	43,400	71.8	174.3	31,700	80
85	66.1	176.1	39,000	68.1	174.8	39,800	70.1	172.0	30,800	85
90	64.4	173.6	35,900	66.4	172.3	36,600	68.4	169.4	30,000	90
95	62.6	171.0	33,100	64.6	169.6	33,800	66.6	166.7	29,200	95
100	60.9	168.1	30,700	62.9	166.7	31,300	64.8	163.8	28,500	100
105	59.1	165.1	28,500	61.1	163.6	29,100	62.9	160.6	27,800	105
110	57.2	161.8	26,500	59.2	160.3	27,000	61.0	157.3	27,200	110
115	55.4	158.3	24,700	57.3	156.8	25,200	59.1	153.6	25,700	115
120	53.5	154.5	23,100	55.4	153.0	23,500	57.1	149.7	23,900	120
125	51.5	150.5	21,600	53.4	148.9	22,000	55.1	145.6	22,400	125
130	49.5	146.1	20,200	51.4	144.5	20,600	53.0	141.1	20,900	130
135	47.4	141.5	19,000	49.2	139.8	19,300	50.8	136.2	19,600	135
140	45.2	136.4	17,800	47.0	134.7	18,100	48.6	131.0	18,400	140
145	43.0	131.0	16,700	44.8	129.2	17,000	46.2	125.3	17,200	145
150	40.6	125.1	15,700	42.4	123.2	16,000				150
155	38.1	118.7	14,800	39.8	116.7	15,000				155
160	35.5	111.7	13,900	37.1	109.5	14,100				160
165	32.6	103.9	13,100	34.2	101.5	13,200				165
170	29.6	95.1	12,300							170
175	26.1	85.0	11,500							175
180	22.2	73.1	10,800							180

MLC165-1 S-2

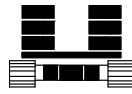
ASME B30.5



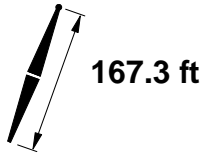
	5°			15°			25°				
	ft	°	ft	lb	ft	°	ft	lb	ft		
45	79.6		199.8	50,500						45	
50	78.1		198.7	49,800						50	
55	76.6		197.5	49,000	78.6	196.2	45,900			55	
60	75.1		196.1	48,300	77.1	194.8	45,500	79.1	192.2	36,500	60
65	73.6		194.6	47,600	75.5	193.3	45,100	77.6	190.6	35,300	65
70	72.0		192.9	47,000	74.0	191.6	44,700	76.0	188.9	34,200	70
75	70.5		191.1	46,200	72.4	189.8	44,300	74.4	187.0	33,200	75
80	68.9		189.1	42,100	70.9	187.8	43,000	72.8	185.0	32,200	80
85	67.3		186.9	38,600	69.3	185.6	39,400	71.2	182.8	31,400	85
90	65.7		184.6	35,500	67.7	183.3	36,300	69.6	180.4	30,500	90
95	64.1		182.1	32,700	66.0	180.8	33,400	67.9	177.9	29,800	95
100	62.5		179.5	30,300	64.4	178.1	30,900	66.2	175.1	29,100	100
105	60.8		176.6	28,100	62.7	175.2	28,700	64.5	172.2	28,400	105
110	59.1		173.5	26,100	61.0	172.1	26,700	62.7	169.1	27,200	110
115	57.4		170.3	24,300	59.2	168.8	24,900	61.0	165.7	25,300	115
120	55.6		166.8	22,700	57.4	165.3	23,200	59.1	162.1	23,600	120
125	53.8		163.1	21,200	55.6	161.5	21,700	57.3	158.3	22,100	125
130	51.9		159.1	19,800	53.7	157.5	20,300	55.4	154.2	20,600	130
135	50.0		154.8	18,600	51.8	153.2	19,000	53.4	149.8	19,300	135
140	48.1		150.3	17,400	49.8	148.6	17,800	51.4	145.1	18,100	140
145	46.0		145.4	16,300	47.8	143.7	16,600	49.2	140.0	16,900	145
150	43.9		140.2	15,300	45.6	138.4	15,600	47.0	134.5	15,800	150
155	41.7		134.5	14,400	43.4	132.6	14,600	44.8	128.6	14,800	155
160	39.4		128.4	13,500	41.1	126.4	13,700				160
165	37.0		121.7	12,700	38.6	119.6	12,900				165
170	34.4		114.4	11,900	36.0	112.1	12,100				170
175	31.7		106.3	11,100	33.2	103.9	11,300				175
180	28.7		97.2	10,500							180
185	25.3		86.8	9,800							185

MLC165-1 S-2

ASME B30.5



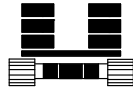
123,400 lb
+
45,100 lb



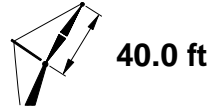
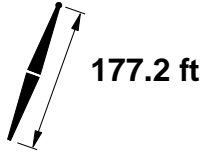
ft	5°			15°			25°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50	78.7	208.8	49,500							50
55	77.2	207.6	48,800	79.1	206.4	45,700				55
60	75.8	206.3	48,100	77.7	205.1	45,300	79.7	202.4	36,900	60
65	74.4	204.9	47,500	76.3	203.6	44,900	78.2	200.9	35,800	65
70	72.9	203.3	46,900	74.8	202.0	44,600	76.7	199.3	34,700	70
75	71.4	201.5	45,900	73.3	200.2	44,300	75.2	197.5	33,700	75
80	70.0	199.7	41,800	71.8	198.4	42,800	73.7	195.6	32,800	80
85	68.5	197.6	38,300	70.3	196.3	39,100	72.2	193.5	31,900	85
90	67.0	195.5	35,200	68.8	194.1	36,000	70.6	191.3	31,100	90
95	65.4	193.1	32,400	67.3	191.8	33,100	69.1	188.9	30,300	95
100	63.9	190.6	30,000	65.7	189.2	30,600	67.5	186.3	29,600	100
105	62.3	187.9	27,800	64.1	186.5	28,400	65.9	183.6	28,900	105
110	60.7	185.1	25,800	62.5	183.6	26,400	64.2	180.6	26,900	110
115	59.1	182.0	24,000	60.9	180.6	24,500	62.6	177.5	25,100	115
120	57.5	178.8	22,400	59.2	177.3	22,900	60.9	174.2	23,400	120
125	55.8	175.3	20,900	57.5	173.8	21,400	59.2	170.6	21,800	125
130	54.1	171.6	19,500	55.8	170.1	19,900	57.4	166.8	20,300	130
135	52.3	167.7	18,200	54.0	166.1	18,700	55.6	162.8	19,000	135
140	50.5	163.5	17,100	52.2	161.9	17,500	53.7	158.5	17,800	140
145	48.6	159.1	16,000	50.3	157.4	16,300	51.8	153.9	16,600	145
150	46.7	154.3	15,000	48.4	152.6	15,300	49.8	148.9	15,600	150
155	44.8	149.2	14,000	46.4	147.4	14,300	47.8	143.6	14,600	155
160	42.7	143.8	13,200	44.3	141.9	13,400	45.6	137.9	13,600	160
165	40.6	137.9	12,300	42.2	135.9	12,600				165
170	38.3	131.5	11,600	39.9	129.5	11,800				170
175	36.0	124.6	10,800	37.5	122.4	11,000				175
180	33.5	117.0	10,100	34.9	114.7	10,300				180
185	30.8	108.6	9,500							185
190	27.8	99.2	8,900							190
195	24.5	88.5	8,300							195

MLC165-1 S-2

ASME B30.5



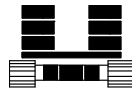
123,400 lb
+
45,100 lb



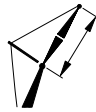
	5°			15°			25°				
	ft	°	ft	lb	ft	°	ft	lb	ft		
50	79.2		218.9	49,100						50	
55	77.8		217.8	48,500	79.7	216.5	45,500			55	
60	76.5		216.5	47,800	78.3	215.2	45,100			60	
65	75.1		215.1	47,200	76.9	213.8	44,700	78.7	211.1	36,200	65
70	73.7		213.6	46,700	75.5	212.3	44,400	77.3	209.6	35,100	70
75	72.3		212.0	45,500	74.1	210.7	44,100	75.9	207.9	34,200	75
80	70.9		210.2	41,400	72.7	208.9	42,400	74.5	206.1	33,200	80
85	69.5		208.3	37,900	71.3	206.9	38,800	73.0	204.1	32,400	85
90	68.1		206.2	34,800	69.8	204.9	35,600	71.6	202.0	31,600	90
95	66.6		204.0	32,000	68.4	202.6	32,800	70.1	199.8	30,800	95
100	65.2		201.6	29,600	66.9	200.2	30,300	68.6	197.3	30,100	100
105	63.7		199.1	27,400	65.4	197.7	28,100	67.1	194.7	28,700	105
110	62.2		196.4	25,400	63.9	195.0	26,000	65.6	192.0	26,600	110
115	60.7		193.5	23,600	62.4	192.1	24,200	64.0	189.1	24,700	115
120	59.1		190.5	22,000	60.8	189.0	22,500	62.4	185.9	23,000	120
125	57.6		187.3	20,500	59.2	185.8	21,000	60.8	182.6	21,500	125
130	56.0		183.8	19,100	57.6	182.3	19,600	59.2	179.1	20,000	130
135	54.3		180.2	17,800	56.0	178.6	18,300	57.5	175.3	18,700	135
140	52.7		176.3	16,700	54.3	174.7	17,100	55.8	171.4	17,500	140
145	50.9		172.2	15,600	52.6	170.6	16,000	54.0	167.1	16,300	145
150	49.2		167.8	14,600	50.8	166.2	14,900	52.2	162.6	15,200	150
155	47.4		163.2	13,600	49.0	161.5	14,000	50.3	157.8	14,300	155
160	45.5		158.2	12,800	47.1	156.4	13,100	48.4	152.6	13,300	160
165	43.6		152.9	11,900	45.1	151.1	12,200	46.4	147.1	12,400	165
170	41.6		147.2	11,200	43.1	145.3	11,400	44.3	141.2	11,600	170
175	39.5		141.1	10,400	41.0	139.1	10,700				175
180	37.3		134.5	9,700	38.8	132.4	9,900				180
185	35.0		127.4	9,100	36.4	125.1	9,300				185
190	32.6		119.6	8,500	33.9	117.1	8,600				190
195	29.9		110.9	7,900							195
200	27.1		101.2	7,300							200
205	23.8		90.1	6,800							205

MLC165-1 S-2

ASME B30.5



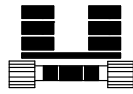
123,400 lb
+
45,100 lb



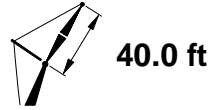
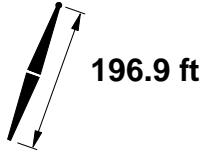
ft	5°			15°			25°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50	79.7	229.0	48,700							50
55	78.4	227.9	48,000							55
60	77.1	226.7	47,400	78.8	225.4	44,800				60
65	75.8	225.4	46,900	77.5	224.1	44,400	79.3	221.3	36,600	65
70	74.4	223.9	46,400	76.2	222.6	44,100	77.9	219.9	35,600	70
75	73.1	222.4	45,300	74.8	221.0	43,800	76.6	218.3	34,600	75
80	71.8	220.7	41,200	73.5	219.3	42,200	75.2	216.5	33,700	80
85	70.4	218.8	37,600	72.1	217.5	38,600	73.8	214.7	32,800	85
90	69.1	216.9	34,500	70.8	215.5	35,400	72.5	212.7	32,000	90
95	67.7	214.8	31,700	69.4	213.4	32,600	71.1	210.5	31,300	95
100	66.3	212.5	29,300	68.0	211.1	30,000	69.6	208.2	30,600	100
105	64.9	210.1	27,100	66.6	208.7	27,800	68.2	205.8	28,500	105
110	63.5	207.6	25,100	65.2	206.2	25,800	66.8	203.2	26,400	110
115	62.1	204.9	23,300	63.7	203.5	23,900	65.3	200.4	24,500	115
120	60.6	202.0	21,700	62.3	200.6	22,300	63.8	197.5	22,800	120
125	59.1	199.0	20,200	60.8	197.5	20,700	62.3	194.4	21,200	125
130	57.6	195.8	18,800	59.3	194.3	19,300	60.8	191.1	19,800	130
135	56.1	192.4	17,600	57.7	190.8	18,000	59.2	187.6	18,500	135
140	54.6	188.7	16,400	56.1	187.2	16,800	57.6	183.9	17,200	140
145	53.0	184.9	15,300	54.5	183.3	15,700	56.0	179.9	16,100	145
150	51.3	180.9	14,300	52.9	179.2	14,700	54.3	175.8	15,000	150
155	49.7	176.6	13,400	51.2	174.9	13,700	52.6	171.3	14,000	155
160	48.0	172.0	12,500	49.5	170.3	12,800	50.8	166.6	13,100	160
165	46.2	167.2	11,700	47.7	165.4	12,000	49.0	161.6	12,200	165
170	44.4	162.0	10,900	45.9	160.2	11,200	47.1	156.3	11,400	170
175	42.5	156.5	10,200	44.0	154.6	10,400	45.1	150.5	10,600	175
180	40.6	150.6	9,500	42.0	148.6	9,700				180
185	38.5	144.3	8,800	39.9	142.2	9,000				185
190	36.4	137.5	8,200	37.8	135.3	8,400				190
195	34.1	130.1	7,600	35.5	127.8	7,800				195
200	31.7	122.0	7,100	33.0	119.5	7,200				200
205	29.2	113.1	6,500							205
210	26.3	103.1	6,000							210
215	23.2	91.6	5,500							215

MLC165-1 S-2

ASME B30.5



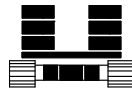
123,400 lb
+
45,100 lb



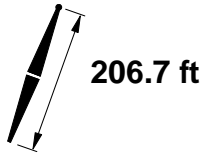
	5°			15°			25°					
	ft	°	ft	lb	ft	°	ft	lb	ft			
55	78.9		238.0	47,600						55		
60	77.6		236.8	47,000	79.3		235.5	44,300		60		
65	76.4		235.6	46,500	78.0		234.2	44,100		65		
70	75.1		234.2	45,900	76.8		232.9	43,800	78.5	230.1	36,000	70
75	73.8		232.7	44,900	75.5		231.4	43,500	77.2	228.6	35,000	75
80	72.6		231.1	40,800	74.2		229.7	41,900	75.9	226.9	34,100	80
85	71.3		229.3	37,200	72.9		228.0	38,200	74.6	225.2	33,300	85
90	70.0		227.5	34,100	71.6		226.1	35,000	73.2	223.2	32,500	90
95	68.7		225.5	31,400	70.3		224.1	32,200	71.9	221.2	31,700	95
100	67.4		223.3	28,900	69.0		221.9	29,700	70.6	219.0	30,500	100
105	66.0		221.1	26,700	67.7		219.7	27,500	69.2	216.7	28,200	105
110	64.7		218.6	24,700	66.3		217.2	25,400	67.8	214.3	26,100	110
115	63.3		216.1	22,900	64.9		214.7	23,600	66.5	211.6	24,200	115
120	62.0		213.4	21,300	63.5		211.9	21,900	65.0	208.9	22,500	120
125	60.6		210.5	19,800	62.1		209.0	20,400	63.6	205.9	20,900	125
130	59.2		207.5	18,400	60.7		206.0	19,000	62.2	202.8	19,500	130
135	57.7		204.3	17,200	59.3		202.7	17,700	60.7	199.5	18,100	135
140	56.3		200.9	16,000	57.8		199.3	16,500	59.2	196.1	16,900	140
145	54.8		197.3	14,900	56.3		195.7	15,400	57.7	192.4	15,800	145
150	53.2		193.5	13,900	54.8		191.9	14,300	56.1	188.5	14,700	150
155	51.7		189.5	13,000	53.2		187.9	13,400	54.5	184.4	13,700	155
160	50.1		185.3	12,100	51.6		183.6	12,500	52.9	180.0	12,800	160
165	48.5		180.8	11,300	50.0		179.1	11,600	51.2	175.4	11,900	165
170	46.8		176.0	10,500	48.3		174.3	10,800	49.5	170.5	11,100	170
175	45.1		171.0	9,800	46.5		169.2	10,100	47.7	165.3	10,300	175
180	43.3		165.7	9,100	44.7		163.8	9,300	45.9	159.8	9,600	180
185	41.5		160.0	8,400	42.9		158.0	8,700	44.0	153.8	8,900	185
190	39.6		153.9	7,800	41.0		151.8	8,000				190
195	37.6		147.4	7,200	38.9		145.2	7,400				195
200	35.5		140.3	6,700	36.8		138.1	6,900				200
205	33.3		132.7	6,200	34.6		130.3	6,300				205
210	31.0		124.4	5,700								210
215	28.4		115.2	5,200								215
220	25.6		104.9	4,600								220
225	22.5		93.1	4,100								225

MLC165-1 S-2

ASME B30.5



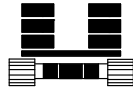
123,400 lb
+
45,100 lb



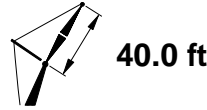
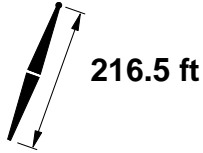
ft	5°			15°			25°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55	79.3	248.0	46,900							55
60	78.1	246.9	46,400							60
65	76.9	245.7	45,900	78.5	244.4	43,600				65
70	75.7	244.4	45,400	77.3	243.1	43,300	78.9	240.3	36,300	70
75	74.5	243.0	44,600	76.1	241.6	43,000	77.7	238.8	35,400	75
80	73.3	241.4	40,500	74.9	240.1	41,600	76.5	237.3	34,500	80
85	72.1	239.8	36,900	73.6	238.4	37,900	75.2	235.6	33,700	85
90	70.8	238.0	33,800	72.4	236.6	34,700	74.0	233.8	32,900	90
95	69.6	236.1	31,000	71.2	234.7	31,900	72.7	231.8	32,200	95
100	68.3	234.0	28,600	69.9	232.7	29,400	71.4	229.7	30,200	100
105	67.1	231.9	26,400	68.6	230.5	27,100	70.1	227.5	27,900	105
110	65.8	229.6	24,400	67.3	228.2	25,100	68.8	225.2	25,800	110
115	64.5	227.1	22,600	66.0	225.7	23,300	67.5	222.7	23,900	115
120	63.2	224.6	21,000	64.7	223.1	21,600	66.2	220.1	22,200	120
125	61.9	221.8	19,500	63.4	220.4	20,100	64.8	217.3	20,600	125
130	60.5	219.0	18,100	62.0	217.5	18,700	63.4	214.4	19,200	130
135	59.2	215.9	16,800	60.7	214.4	17,400	62.1	211.3	17,800	135
140	57.8	212.7	15,700	59.3	211.2	16,200	60.6	208.0	16,600	140
145	56.4	209.4	14,600	57.9	207.8	15,000	59.2	204.5	15,500	145
150	55.0	205.8	13,600	56.4	204.2	14,000	57.7	200.9	14,400	150
155	53.5	202.1	12,600	55.0	200.5	13,000	56.3	197.1	13,400	155
160	52.0	198.1	11,800	53.5	196.5	12,100	54.7	193.0	12,500	160
165	50.5	193.9	10,900	51.9	192.3	11,300	53.2	188.7	11,600	165
170	49.0	189.5	10,200	50.4	187.8	10,500	51.6	184.2	10,800	170
175	47.4	184.9	9,400	48.8	183.1	9,700	50.0	179.4	10,000	175
180	45.8	180.0	8,700	47.1	178.2	9,000	48.3	174.3	9,300	180
185	44.1	174.8	8,100	45.4	172.9	8,400	46.5	168.9	8,600	185
190	42.3	169.2	7,500	43.7	167.3	7,700	44.7	163.2	7,900	190
195	40.5	163.4	6,900	41.9	161.3	7,100				195
200	38.7	157.1	6,400	40.0	155.0	6,600				200
205	36.7	150.3	5,800	38.0	148.1	6,000				205
210	34.7	143.1	5,300	35.9	140.8	5,500				210
215	32.5	135.3	4,700	33.7	132.8	4,900				215
220	30.2	126.7	4,100							220

MLC165-1 S-2

ASME B30.5



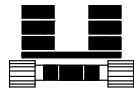
123,400 lb
+
45,100 lb



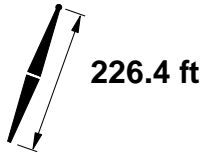
	5°			15°			25°			
	ft	°	ft	lb	ft	°	ft	lb	ft	
60	78.6		257.0	45,700						60
65	77.4		255.9	45,200	79.0	254.5	43,000			65
70	76.3		254.6	44,800	77.8	253.3	42,700	79.4	250.5	36,700
75	75.1		253.2	44,200	76.7	251.9	42,500	78.2	249.1	35,800
80	74.0		251.7	40,100	75.5	250.4	41,300	77.0	247.6	34,900
85	72.8		250.1	36,600	74.3	248.8	37,600	75.8	246.0	34,100
90	71.6		248.4	33,400	73.1	247.1	34,400	74.6	244.2	33,300
95	70.4		246.6	30,700	71.9	245.2	31,600	73.4	242.4	32,500
100	69.2		244.7	28,200	70.7	243.3	29,100	72.2	240.4	29,900
105	68.0		242.6	26,000	69.5	241.2	26,800	71.0	238.3	27,600
110	66.8		240.4	24,000	68.3	239.0	24,800	69.7	236.0	25,500
115	65.6		238.1	22,200	67.0	236.7	22,900	68.5	233.7	23,600
120	64.3		235.6	20,600	65.8	234.2	21,200	67.2	231.2	21,900
125	63.1		233.1	19,100	64.5	231.6	19,700	65.9	228.5	20,300
130	61.8		230.3	17,700	63.2	228.9	18,300	64.6	225.8	18,800
135	60.5		227.5	16,400	61.9	226.0	17,000	63.3	222.8	17,500
140	59.2		224.4	15,300	60.6	222.9	15,800	62.0	219.7	16,300
145	57.9		221.2	14,200	59.3	219.7	14,700	60.6	216.5	15,100
150	56.5		217.9	13,200	57.9	216.3	13,600	59.2	213.0	14,100
155	55.1		214.3	12,200	56.5	212.8	12,700	57.8	209.4	13,100
160	53.8		210.6	11,400	55.1	209.0	11,800	56.4	205.6	12,100
165	52.3		206.7	10,500	53.7	205.1	10,900	54.9	201.6	11,300
170	50.9		202.6	9,800	52.3	200.9	10,100	53.5	197.4	10,400
175	49.4		198.3	9,000	50.8	196.6	9,400	51.9	192.9	9,700
180	47.9		193.7	8,300	49.2	192.0	8,700	50.4	188.2	8,900
185	46.3		188.9	7,700	47.7	187.1	8,000	48.8	183.3	8,200
190	44.7		183.8	7,100	46.1	181.9	7,400	47.1	178.0	7,600
195	43.1		178.4	6,500	44.4	176.5	6,800	45.4	172.4	7,000
200	41.4		172.7	5,900	42.7	170.7	6,200			
205	39.7		166.6	5,300	40.9	164.6	5,600			
210	37.8		160.2	4,700	39.0	158.0	4,900			
215	35.9		153.2	4,100	37.1	151.0	4,300			

MLC165-1 S-2

ASME B30.5



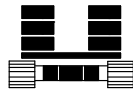
123,400 lb
+
45,100 lb



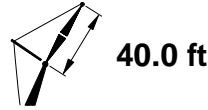
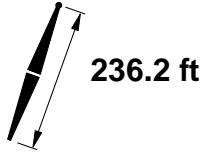
	5°			15°			25°			
	ft	°	ft	lb	ft	°	ft	lb	ft	
60	79.0		267.1							60
65	77.9		266.0							65
70	76.8		264.8							70
75	75.7		263.4							75
80	74.6		262.0							80
85	73.4		260.5							85
90	72.3		258.8							90
95	71.2		257.1							95
100	70.0		255.2							100
105	68.9		253.3							105
110	67.7		251.2							110
115	66.5		249.0							115
120	65.3		246.6							120
125	64.1		244.1							125
130	62.9		241.5							130
135	61.7		238.8							135
140	60.5		235.9							140
145	59.2		232.9							145
150	57.9		229.7							150
155	56.6		226.4							155
160	55.3		222.9							160
165	54.0		219.2							165
170	52.6		215.3							170
175	51.2		211.3							175
180	49.8		207.0							180
185	48.4		202.5							185
190	46.9		197.8							190
195	45.4		192.8							195
200	43.8		187.5							200
205	42.2		182.0							205
210	40.5		176.1							210
215										215

MLC165-1 S-2

ASME B30.5



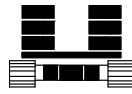
123,400 lb
+
45,100 lb



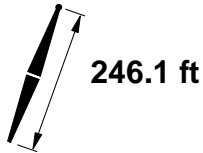
	5°			15°			25°				
	ft	°	ft	lb	ft	°	ft	lb	ft		
60	79.4		277.1	44,400						60	
65	78.3		276.1	44,000						65	
70	77.3		274.9	43,600	78.7	273.6	41,800			70	
75	76.2		273.6	43,100	77.6	272.3	41,600	79.1	269.5	34,900	
80	75.1		272.3	39,400	76.6	270.9	40,600	78.0	268.1	34,300	
85	74.1		270.8	35,800	75.5	269.4	36,900	76.9	266.6	33,800	
90	73.0		269.2	32,600	74.4	267.9	33,700	75.8	265.0	33,200	
95	71.9		267.5	29,900	73.3	266.2	30,900	74.7	263.3	31,900	
100	70.8		265.8	27,400	72.2	264.4	28,300	73.5	261.5	29,300	
105	69.7		263.9	25,200	71.1	262.5	26,100	72.4	259.5	26,900	
110	68.5		261.9	23,200	69.9	260.4	24,000	71.3	257.5	24,800	
115	67.4		259.7	21,400	68.8	258.3	22,200	70.1	255.3	22,900	
120	66.3		257.5	19,800	67.6	256.1	20,500	69.0	253.0	21,200	
125	65.1		255.1	18,300	66.5	253.7	18,900	67.8	250.6	19,600	
130	64.0		252.6	16,900	65.3	251.2	17,500	66.6	248.1	18,200	
135	62.8		250.0	15,600	64.2	248.6	16,200	65.4	245.4	16,800	
140	61.6		247.3	14,400	63.0	245.8	15,000	64.2	242.7	15,600	
145	60.4		244.4	13,400	61.8	242.9	13,900	63.0	239.7	14,400	
150	59.2		241.4	12,300	60.5	239.8	12,900	61.8	236.6	13,300	
155	58.0		238.2	11,400	59.3	236.7	11,900	60.5	233.4	12,300	
160	56.7		234.9	10,500	58.0	233.3	11,000	59.2	230.0	11,400	
165	55.5		231.4	9,700	56.8	229.8	10,100	57.9	226.4	10,500	
170	54.2		227.7	8,900	55.5	226.1	9,300	56.6	222.7	9,700	
175	52.9		223.9	8,200	54.2	222.3	8,600	55.3	218.8	8,900	
180	51.5		219.9	7,500	52.8	218.2	7,900	53.9	214.7	8,200	
185	50.2		215.7	6,800	51.4	214.0	7,200	52.5	210.3	7,500	
190	48.8		211.3	6,000	50.0	209.5	6,500	51.1	205.8	6,800	
195	47.4		206.6	5,400	48.6	204.8	5,700	49.7	201.0	6,100	
200	45.9		201.7	4,700	47.2	199.9	5,100	48.2	196.0	5,400	
205	44.4		196.6	4,100	45.7	194.7	4,400	46.6	190.7	4,700	
210								45.1	185.1	4,100	210

MLC165-1 S-2

ASME B30.5



123,400 lb
+
45,100 lb



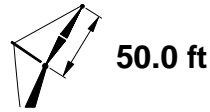
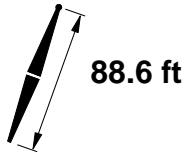
	5°			15°			25°			
	ft	°	ft	lb	ft	°	ft	lb	ft	
65	78.8		286.1							65
70	77.7		285.0		79.1	283.7				70
75	76.7		283.8		78.1	282.4		79.5	279.6	75
80	75.7		282.5		77.0	281.1		78.4	278.3	80
85	74.6		281.1		76.0	279.7		77.4	276.8	85
90	73.6		279.5		74.9	278.2		76.3	275.3	90
95	72.5		277.9		73.9	276.6		75.2	273.7	95
100	71.5		276.2		72.8	274.8		74.2	271.9	100
105	70.4		274.4		71.7	273.0		73.1	270.1	105
110	69.3		272.5		70.7	271.1		72.0	268.1	110
115	68.2		270.4		69.6	269.0		70.9	266.0	115
120	67.1		268.3		68.5	266.9		69.8	263.8	120
125	66.0		266.0		67.4	264.6		68.6	261.5	125
130	64.9		263.6		66.3	262.2		67.5	259.1	130
135	63.8		261.1		65.1	259.7		66.4	256.6	135
140	62.7		258.5		64.0	257.0		65.2	253.9	140
145	61.5		255.8		62.8	254.3		64.1	251.1	145
150	60.4		252.9		61.7	251.4		62.9	248.2	150
155	59.2		249.9		60.5	248.3		61.7	245.1	155
160	58.0		246.7		59.3	245.1		60.5	241.9	160
165	56.8		243.4		58.1	241.8		59.2	238.5	165
170	55.6		239.9		56.9	238.3		58.0	234.9	170
175	54.4		236.3		55.6	234.7		56.7	231.2	175
180	53.1		232.5		54.4	230.8		55.5	227.3	180
185	51.8		228.5		53.1	226.8		54.1	223.3	185
190	50.5		224.4		51.7	222.6		52.8	219.0	190
195	49.2		220.0		50.4	218.2		51.4	214.5	195
200	47.8		215.4		49.0	213.6		50.0	209.8	200
205								48.6	204.9	205

MLC165-1 S-2

ASME B30.5



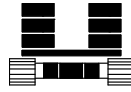
123,400 lb
+
45,100 lb



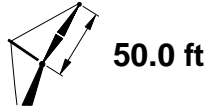
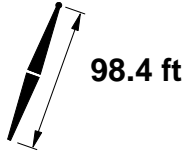
	5°			15°			25°				
	ft	°	ft	lb	ft	°	ft	lb	ft		
35	79.7		141.8	44,500						35	
40	77.5		140.6	43,300						40	
45	75.4		139.1	42,100	79.0	137.9	39,300			45	
50	73.2		137.5	41,000	76.8	136.2	38,400			50	
55	71.0		135.7	40,000	74.6	134.4	37,400	78.3	131.6	29,600	55
60	68.7		133.6	39,100	72.3	132.3	36,600	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	35,200	62.8	121.4	30,900	66.2	118.3	23,500	80
85	56.8		119.4	34,500	60.3	118.0	29,400	63.6	114.8	22,600	85
90	54.3		115.7	33,700	57.7	114.2	28,000	60.9	110.9	21,800	90
95	51.6		111.6	32,900	54.9	110.0	26,800	58.1	106.6	21,100	95
100	48.8		107.1	31,200	52.1	105.4	25,700	55.2	101.8	20,400	100
105	45.9		102.1	29,700	49.1	100.3	24,700	52.1	96.5	19,800	105
110	42.8		96.5	28,300	46.0	94.7	23,800	48.8	90.6	19,300	110
115	39.5		90.3	26,700	42.6	88.3	23,000	45.2	83.9	18,800	115
120	35.9		83.3	25,100	38.9	81.1	22,200				120
125	31.9		75.1	23,600	34.8	72.7	21,600				125
130	27.4		65.5	22,200							130
135	22.0		53.3	20,800							135

MLC165-1 S-2

ASME B30.5



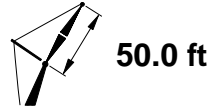
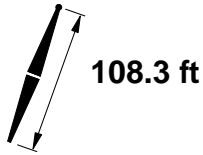
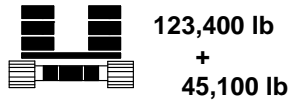
123,400 lb
+
45,100 lb



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

MLC165-1 S-2

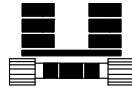
ASME B30.5



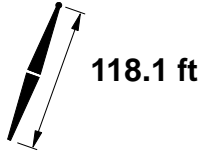
	5°			15°			25°			
	ft	°	ft	lb	ft	°	ft	lb	ft	
40	79.1		160.8	43,600						40
45	77.2		159.6	42,600						45
50	75.4		158.2	41,600	78.5		156.8	38,800		50
55	73.5		156.6	40,700	76.6		155.2	38,100		55
60	71.5		154.8	39,900	74.7		153.4	37,300	77.9	60
65	69.6		152.8	39,100	72.7		151.4	36,600	75.9	65
70	67.6		150.7	38,300	70.7		149.3	35,900	73.9	70
75	65.6		148.3	37,400	68.7		146.9	35,300	71.8	75
80	63.6		145.7	36,500	66.6		144.2	33,500	69.7	80
85	61.5		142.9	35,700	64.5		141.4	32,000	67.5	85
90	59.4		139.8	35,000	62.4		138.3	30,600	65.3	90
95	57.2		136.5	34,300	60.2		134.9	29,300	63.0	95
100	54.9		132.8	32,000	57.9		131.2	28,100	60.7	100
105	52.6		128.9	29,800	55.6		127.2	27,100	58.3	105
110	50.2		124.6	27,900	53.2		122.9	26,100	55.8	110
115	47.8		119.9	26,100	50.6		118.1	25,200	53.2	115
120	45.2		114.8	24,400	48.0		112.9	24,400	50.5	120
125	42.5		109.2	22,900	45.2		107.3	23,300	47.6	125
130	39.6		103.1	21,500	42.3		100.9	21,900	44.5	130
135	36.5		96.2	20,300	39.1		93.9	20,600		135
140	33.2		88.4	19,100	35.7		85.9	19,300		140
145	29.4		79.5	18,000						145
150	25.2		68.9	16,900						150

MLC165-1 S-2

ASME B30.5



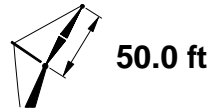
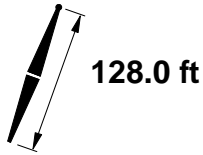
123,400 lb
+
45,100 lb



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	37,900	70.1	157.7	35,600	73.0	154.7	26,400	75
80	65.3	156.8	37,100	68.2	155.3	34,800	71.0	152.2	25,500	80
85	63.3	154.2	36,300	66.2	152.7	33,200	69.0	149.5	24,600	85
90	61.4	151.3	35,600	64.2	149.8	31,800	67.0	146.5	23,800	90
95	59.4	148.3	34,100	62.2	146.7	30,500	64.9	143.4	23,000	95
100	57.3	145.0	31,600	60.1	143.3	29,300	62.8	139.9	22,300	100
105	55.2	141.4	29,400	58.0	139.7	28,200	60.6	136.2	21,700	105
110	53.1	137.5	27,400	55.8	135.8	27,200	58.4	132.2	21,100	110
115	50.8	133.3	25,600	53.6	131.6	26,200	56.1	127.8	20,600	115
120	48.5	128.8	24,000	51.2	126.9	24,500	53.7	123.0	20,100	120
125	46.1	123.8	22,500	48.8	121.9	22,900	51.1	117.9	19,600	125
130	43.6	118.5	21,100	46.3	116.5	21,500	48.5	112.2	19,200	130
135	41.0	112.6	19,900	43.6	110.5	20,200	45.7	105.9	18,900	135
140	38.2	106.1	18,700	40.7	103.9	19,000				140
145	35.2	98.9	17,600	37.7	96.5	17,900				145
150	32.0	90.9	16,600	34.3	88.2	16,800				150
155	28.4	81.6	15,600							155
160	24.2	70.5	14,700							160

MLC165-1 S-2

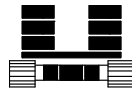
ASME B30.5



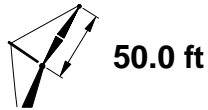
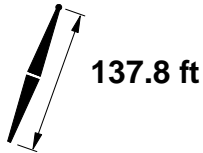
	5°			15°			25°				
	ft	°	ft	lb	ft	°	ft	lb	ft		
45	78.7		179.8	42,800						45	
50	77.0		178.6	41,900						50	
55	75.4		177.2	41,100	78.2	175.8	38,400			55	
60	73.7		175.7	40,300	76.5	174.2	37,700	79.3	171.2	30,400	60
65	72.0		173.9	39,600	74.8	172.5	37,100	77.6	169.4	29,100	65
70	70.2		172.0	38,900	73.0	170.6	36,500	75.8	167.5	28,000	70
75	68.5		170.0	38,200	71.3	168.5	35,900	74.0	165.4	27,000	75
80	66.7		167.7	37,500	69.5	166.2	35,400	72.2	163.1	26,000	80
85	64.9		165.3	36,800	67.7	163.8	34,400	70.4	160.6	25,200	85
90	63.1		162.7	36,100	65.8	161.1	32,900	68.5	157.8	24,400	90
95	61.3		159.8	33,700	64.0	158.2	31,600	66.6	154.9	23,600	95
100	59.4		156.8	31,300	62.0	155.1	30,400	64.6	151.7	22,900	100
105	57.4		153.5	29,100	60.1	151.8	29,300	62.6	148.3	22,300	105
110	55.5		149.9	27,100	58.1	148.2	27,700	60.6	144.6	21,700	110
115	53.4		146.1	25,300	56.0	144.4	25,900	58.5	140.7	21,100	115
120	51.4		142.0	23,700	53.9	140.2	24,200	56.3	136.4	20,600	120
125	49.2		137.6	22,200	51.7	135.7	22,600	54.0	131.8	20,200	125
130	47.0		132.8	20,800	49.5	130.9	21,200	51.7	126.8	19,700	130
135	44.6		127.6	19,500	47.1	125.6	19,900	49.3	121.3	19,300	135
140	42.2		122.0	18,400	44.7	119.9	18,700	46.7	115.4	19,000	140
145	39.7		115.8	17,300	42.1	113.6	17,600	44.0	108.8	17,800	145
150	37.0		109.1	16,300	39.3	106.7	16,500				150
155	34.1		101.6	15,300	36.3	99.0	15,500				155
160	30.9		93.2	14,400	33.1	90.3	14,600				160
165	27.4		83.5	13,600							165
170	23.4		72.0	12,800							170

MLC165-1 S-2

ASME B30.5



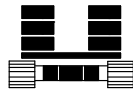
123,400 lb
+
45,100 lb



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	38,400	72.3	179.1	36,100	74.9	176.0	27,500	75
80	68.0	178.5	37,800	70.6	177.0	35,600	73.2	173.8	26,600	80
85	66.4	176.2	37,200	69.0	174.7	35,100	71.5	171.5	25,700	85
90	64.7	173.8	36,100	67.2	172.2	34,000	69.8	168.9	24,900	90
95	62.9	171.1	33,300	65.5	169.6	32,700	68.0	166.2	24,200	95
100	61.2	168.3	30,900	63.7	166.7	31,400	66.2	163.3	23,500	100
105	59.4	165.2	28,700	61.9	163.6	29,400	64.3	160.1	22,800	105
110	57.6	162.0	26,700	60.1	160.3	27,300	62.4	156.7	22,200	110
115	55.7	158.4	24,900	58.2	156.7	25,500	60.5	153.1	21,700	115
120	53.8	154.7	23,300	56.2	152.9	23,800	58.5	149.2	21,200	120
125	51.8	150.6	21,800	54.3	148.8	22,300	56.5	145.0	20,700	125
130	49.8	146.3	20,400	52.2	144.4	20,900	54.4	140.5	20,200	130
135	47.7	141.7	19,100	50.1	139.7	19,600	52.2	135.6	19,800	135
140	45.5	136.6	17,900	47.9	134.6	18,300	49.9	130.3	18,700	140
145	43.3	131.2	16,900	45.6	129.1	17,200	47.5	124.6	17,500	145
150	40.9	125.3	15,800	43.2	123.2	16,200	45.1	118.4	16,400	150
155	38.5	118.9	14,900	40.7	116.6	15,200				155
160	35.8	111.9	14,000	38.0	109.4	14,300				160
165	33.0	104.1	13,200	35.1	101.4	13,400				165
170	29.9	95.4	12,400							170
175	26.5	85.3	11,600							175
180	22.6	73.5	10,900							180

MLC165-1 S-2

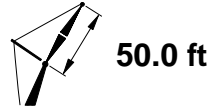
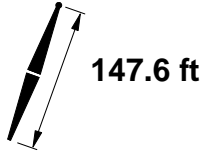
ASME B30.5



123,400 lb
+
45,100 lb



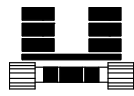
360°



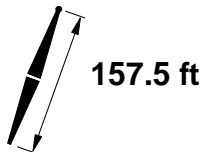
	5°			15°			25°			
	ft	°	ft	lb	ft	°	ft	lb	ft	
50	78.3		198.9	41,900						50
55	76.9		197.6	41,200	79.4	196.2	38,500			55
60	75.3		196.2	40,500	77.9	194.8	38,000			60
65	73.8		194.7	39,800	76.4	193.2	37,400	78.9	190.1	30,100
70	72.3		193.0	39,200	74.8	191.5	36,900	77.3	188.4	29,000
75	70.8		191.2	38,600	73.3	189.7	36,300	75.8	186.5	28,000
80	69.2		189.2	38,000	71.7	187.7	35,800	74.2	184.5	27,100
85	67.6		187.1	37,400	70.1	185.5	35,300	72.5	182.3	26,200
90	66.0		184.8	36,200	68.5	183.2	34,800	70.9	179.9	25,400
95	64.4		182.3	33,400	66.8	180.7	33,700	69.2	177.3	24,700
100	62.8		179.6	31,000	65.2	178.0	31,700	67.5	174.6	24,000
105	61.1		176.8	28,800	63.5	175.1	29,500	65.8	171.7	23,300
110	59.4		173.7	26,800	61.8	172.0	27,500	64.1	168.5	22,700
115	57.6		170.5	25,000	60.0	168.8	25,600	62.3	165.1	22,200
120	55.9		167.0	23,400	58.2	165.2	23,900	60.4	161.5	21,700
125	54.1		163.3	21,900	56.4	161.5	22,400	58.6	157.7	21,200
130	52.2		159.3	20,500	54.5	157.5	21,000	56.6	153.6	20,700
135	50.3		155.0	19,200	52.6	153.2	19,700	54.7	149.1	20,100
140	48.4		150.5	18,100	50.6	148.5	18,500	52.6	144.4	18,900
145	46.3		145.6	17,000	48.6	143.6	17,400	50.5	139.3	17,700
150	44.2		140.4	16,000	46.4	138.3	16,300	48.3	133.8	16,600
155	42.0		134.7	15,000	44.2	132.5	15,300	46.0	127.9	15,600
160	39.7		128.6	14,100	41.9	126.3	14,400			
165	37.3		121.9	13,300	39.4	119.5	13,600			
170	34.8		114.6	12,500	36.8	112.1	12,800			
175	32.0		106.6	11,800	34.0	103.8	12,000			
180	29.0		97.5	11,100						
185	25.7		87.1	10,400						
190	21.8		74.8	9,800						

MLC165-1 S-2

ASME B30.5



123,400 lb
+
45,100 lb



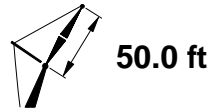
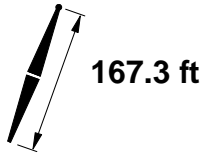
	5°			15°			25°			
	ft	°	ft	lb	ft	°	ft	lb	ft	
50	78.9		209.0							50
55	77.5		207.8							55
60	76.1		206.5							60
65	74.6		205.0	78.5	205.0	38,000				65
70	73.2		203.4	77.0	203.5	37,500	79.5	200.4	30,500	70
75	71.7		201.7	75.6	201.9	36,900	78.0	198.7	29,400	75
80	70.2		199.8	74.1	200.2	36,500	76.5	197.0	28,400	80
85	68.7		197.8	72.6	198.3	35,900	75.0	195.0	27,500	85
90	67.2		195.6	71.1	196.2	35,500	73.4	193.0	26,700	90
95	65.7		193.3	69.6	194.0	35,000	71.9	190.7	25,900	95
100	64.2		190.8	68.0	191.7	33,900	70.3	188.3	25,100	100
105	62.6		188.1	66.5	189.2	31,400	68.7	185.7	24,500	105
110	61.0		185.2	64.9	186.5	29,100	67.1	183.0	23,800	110
115	59.4		182.2	63.3	183.6	27,100	65.5	180.1	23,200	115
120	57.7		178.9	61.7	180.5	25,300	63.8	176.9	22,700	120
125	56.1		175.5	60.0	177.2	23,600	62.1	173.6	22,100	125
130	54.3		171.8	58.3	173.7	22,000	60.4	170.0	21,600	130
135	52.6		167.9	56.6	170.0	20,600	58.6	166.2	21,100	135
140	50.8		163.7	54.8	166.1	19,300	56.8	162.1	19,800	140
145	48.9		159.3	53.0	161.8	18,100	54.9	157.8	18,500	145
150	47.0		154.5	51.1	157.3	17,000	53.0	153.2	17,400	150
155	45.1		149.4	49.2	152.5	16,000	51.0	148.2	16,300	155
160	43.0		144.0	47.2	147.3	15,000	49.0	142.9	15,300	160
165	40.9		138.1	45.1	141.8	14,100	46.8	137.2	14,300	165
170	38.6		131.7	42.9	135.8	13,200	44.6	131.0	13,500	170
175	36.3		124.8	40.6	129.4	12,400				175
180	33.8		117.3	38.2	122.3	11,600				180
185	31.1		108.9	35.7	114.6	10,900				185
190	28.2		99.5	32.9	106.0	10,200				190
195	24.9		88.8							195

MLC165-1 S-2

ASME B30.5



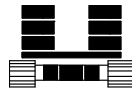
123,400 lb
+
45,100 lb



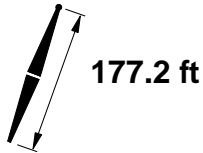
ft	5°			15°			25°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50	79.4	219.1	41,500							50
55	78.1	217.9	40,900							55
60	76.7	216.7	40,300	79.0	215.2	37,800				60
65	75.3	215.3	39,700	77.6	213.8	37,400				65
70	74.0	213.8	39,100	76.3	212.3	36,900	78.6	209.0	29,800	70
75	72.6	212.1	38,600	74.9	210.6	36,500	77.1	207.4	28,800	75
80	71.2	210.3	38,000	73.4	208.8	36,100	75.7	205.5	27,900	80
85	69.8	208.4	37,500	72.0	206.9	35,600	74.3	203.6	27,100	85
90	68.3	206.4	35,500	70.6	204.8	35,200	72.8	201.5	26,300	90
95	66.9	204.2	32,700	69.1	202.6	33,600	71.3	199.2	25,600	95
100	65.4	201.8	30,200	67.7	200.2	31,100	69.8	196.8	24,900	100
105	64.0	199.3	28,000	66.2	197.6	28,800	68.3	194.2	24,300	105
110	62.5	196.6	26,100	64.7	194.9	26,800	66.8	191.4	23,700	110
115	60.9	193.7	24,300	63.1	192.0	25,000	65.2	188.5	23,100	115
120	59.4	190.7	22,600	61.6	189.0	23,300	63.6	185.3	22,600	120
125	57.8	187.4	21,100	60.0	185.7	21,700	62.0	182.0	22,100	125
130	56.2	184.0	19,800	58.4	182.2	20,300	60.3	178.5	20,900	130
135	54.6	180.4	18,500	56.7	178.6	19,000	58.7	174.7	19,500	135
140	52.9	176.5	17,300	55.0	174.6	17,800	56.9	170.7	18,300	140
145	51.2	172.4	16,200	53.3	170.5	16,700	55.2	166.4	17,100	145
150	49.5	168.0	15,200	51.5	166.1	15,700	53.3	161.9	16,000	150
155	47.7	163.4	14,300	49.7	161.4	14,700	51.5	157.1	15,000	155
160	45.8	158.4	13,400	47.8	156.3	13,800	49.5	151.9	14,100	160
165	43.9	153.1	12,600	45.9	151.0	12,900	47.5	146.3	13,200	165
170	41.9	147.5	11,800	43.8	145.2	12,100	45.4	140.4	12,400	170
175	39.8	141.4	11,100	41.7	139.0	11,300				175
180	37.6	134.8	10,400	39.5	132.3	10,600				180
185	35.3	127.6	9,700	37.2	125.0	9,900				185
190	32.9	119.8	9,100	34.7	117.0	9,300				190
195	30.2	111.2	8,500							195
200	27.4	101.5	7,900							200
205	24.2	90.4	7,400							205

MLC165-1 S-2

ASME B30.5



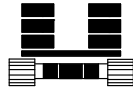
123,400 lb
+
45,100 lb



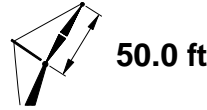
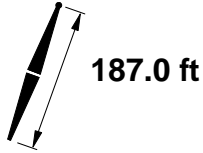
	5°			15°			25°			
	ft	°	ft	lb	ft	°	ft	lb	ft	
55	78.6		228.0	40,600						55
60	77.3		226.8	40,100	79.5	225.3	37,700			60
65	76.0		225.5	39,500	78.2	224.0	37,300			65
70	74.7		224.1	39,000	76.9	222.5	36,900	79.1	219.3	30,200
75	73.4		222.5	38,500	75.5	221.0	36,500	77.7	217.7	29,200
80	72.0		220.8	38,000	74.2	219.3	36,000	76.4	216.0	28,400
85	70.7		219.0	37,500	72.9	217.4	35,700	75.0	214.1	27,500
90	69.3		217.0	35,100	71.5	215.4	35,300	73.6	212.1	26,800
95	68.0		214.9	32,300	70.1	213.3	33,300	72.2	209.9	26,000
100	66.6		212.7	29,900	68.7	211.1	30,800	70.8	207.6	25,400
105	65.2		210.3	27,700	67.3	208.7	28,500	69.4	205.2	24,700
110	63.8		207.8	25,700	65.9	206.1	26,500	67.9	202.6	24,100
115	62.3		205.1	23,900	64.4	203.4	24,600	66.4	199.8	23,600
120	60.9		202.2	22,200	63.0	200.5	22,900	64.9	196.9	23,000
125	59.4		199.1	20,700	61.5	197.4	21,400	63.4	193.7	22,000
130	57.9		195.9	19,400	60.0	194.2	20,000	61.9	190.4	20,500
135	56.4		192.5	18,100	58.4	190.7	18,700	60.3	186.9	19,200
140	54.8		188.9	16,900	56.8	187.1	17,400	58.7	183.2	17,900
145	53.2		185.1	15,800	55.2	183.2	16,300	57.1	179.2	16,800
150	51.6		181.0	14,800	53.6	179.1	15,300	55.4	175.1	15,700
155	49.9		176.7	13,900	51.9	174.8	14,300	53.7	170.6	14,700
160	48.2		172.2	13,000	50.2	170.2	13,400	51.9	165.9	13,800
165	46.5		167.4	12,200	48.4	165.3	12,500	50.1	160.8	12,900
170	44.7		162.2	11,400	46.6	160.1	11,700	48.2	155.5	12,000
175	42.8		156.7	10,700	44.7	154.5	11,000	46.2	149.7	11,200
180	40.8		150.8	10,000	42.7	148.5	10,300	44.1	143.5	10,500
185	38.8		144.5	9,300	40.6	142.1	9,600			
190	36.7		137.7	8,700	38.4	135.2	8,900			
195	34.4		130.3	8,100	36.2	127.6	8,300			
200	32.0		122.3	7,600	33.7	119.4	7,700			
205	29.4		113.4	7,000						
210	26.6		103.4	6,500						
215	23.5		92.0	6,000						

MLC165-1 S-2

ASME B30.5



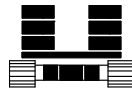
123,400 lb
+
45,100 lb



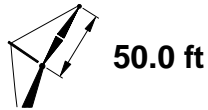
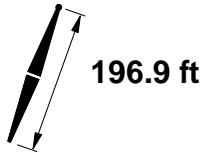
	5°			15°			25°				
	ft	°	ft	lb	ft	°	ft	lb	ft		
55	79.1		238.1	40,300						55	
60	77.8		237.0	39,800						60	
65	76.6		235.7	39,300	78.7	234.2				65	
70	75.3		234.3	38,800	77.4	232.8	37,100	79.6	229.5	30,500	70
75	74.1		232.8	38,300	76.2	231.3	36,400	78.3	228.0	29,600	75
80	72.8		231.2	37,800	74.9	229.6	36,000	77.0	226.3	28,700	80
85	71.5		229.5	37,300	73.6	227.9	35,600	75.7	224.6	27,900	85
90	70.2		227.6	34,800	72.3	226.0	35,200	74.4	222.6	27,200	90
95	68.9		225.6	32,000	71.0	224.0	33,000	73.0	220.6	26,400	95
100	67.6		223.5	29,600	69.7	221.9	30,500	71.7	218.4	25,800	100
105	66.3		221.2	27,400	68.3	219.6	28,200	70.3	216.1	25,100	105
110	64.9		218.8	25,400	67.0	217.1	26,200	68.9	213.6	24,500	110
115	63.6		216.2	23,600	65.6	214.6	24,300	67.5	211.0	24,000	115
120	62.2		213.5	21,900	64.2	211.8	22,700	66.1	208.2	23,400	120
125	60.8		210.7	20,400	62.8	208.9	21,100	64.7	205.3	21,800	125
130	59.4		207.6	19,100	61.4	205.9	19,700	63.3	202.2	20,300	130
135	58.0		204.4	17,800	59.9	202.6	18,400	61.8	198.9	19,000	135
140	56.5		201.0	16,600	58.5	199.2	17,200	60.3	195.4	17,700	140
145	55.0		197.5	15,500	57.0	195.6	16,100	58.7	191.7	16,600	145
150	53.5		193.7	14,500	55.4	191.8	15,000	57.2	187.8	15,500	150
155	51.9		189.7	13,600	53.9	187.7	14,100	55.6	183.7	14,500	155
160	50.4		185.4	12,700	52.3	183.5	13,100	53.9	179.3	13,500	160
165	48.7		181.0	11,900	50.6	179.0	12,300	52.2	174.6	12,700	165
170	47.1		176.2	11,100	48.9	174.2	11,500	50.5	169.7	11,800	170
175	45.4		171.2	10,400	47.2	169.1	10,700	48.7	164.5	11,000	175
180	43.6		165.9	9,700	45.4	163.7	10,000	46.9	158.9	10,300	180
185	41.8		160.2	9,100	43.5	157.9	9,300	45.0	153.0	9,600	185
190	39.9		154.1	8,400	41.6	151.7	8,700				190
195	37.9		147.6	7,800	39.6	145.1	8,100				195
200	35.8		140.6	7,300	37.5	137.9	7,500				200
205	33.6		133.0	6,800	35.2	130.2	7,000				205
210	31.2		124.7	6,300	32.8	121.7	6,400				210
215	28.7		115.5	5,800							215
220	25.9		105.2	5,300							220
225	22.9		93.5	4,900							225

MLC165-1 S-2

ASME B30.5



123,400 lb
+
45,100 lb



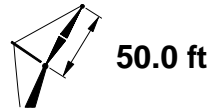
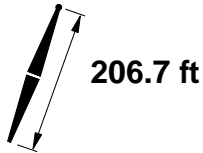
ft	5°			15°			25°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55	79.5	248.2	39,900							55
60	78.3	247.1	39,400							60
65	77.1	245.9	38,900	79.2	244.3	36,800				65
70	75.9	244.5	38,500	78.0	243.0	36,600				70
75	74.7	243.1	38,000	76.7	241.5	36,200	78.8	238.2	30,000	75
80	73.5	241.6	37,600	75.5	240.0	35,900	77.5	236.7	29,100	80
85	72.3	239.9	37,200	74.3	238.3	35,500	76.3	235.0	28,300	85
90	71.1	238.1	34,400	73.1	236.5	35,200	75.0	233.1	27,500	90
95	69.8	236.2	31,700	71.8	234.6	32,700	73.8	231.2	26,800	95
100	68.6	234.2	29,200	70.5	232.6	30,200	72.5	229.1	26,200	100
105	67.3	232.0	27,000	69.3	230.4	27,900	71.2	226.9	25,500	105
110	66.0	229.7	25,000	68.0	228.1	25,900	69.9	224.6	24,900	110
115	64.7	227.3	23,200	66.7	225.6	24,000	68.6	222.1	24,400	115
120	63.4	224.7	21,600	65.4	223.0	22,300	67.2	219.4	23,100	120
125	62.1	222.0	20,100	64.0	220.3	20,800	65.9	216.6	21,500	125
130	60.8	219.1	18,700	62.7	217.4	19,300	64.5	213.7	20,000	130
135	59.4	216.1	17,400	61.3	214.3	18,000	63.1	210.6	18,600	135
140	58.0	212.9	16,200	59.9	211.1	16,800	61.7	207.3	17,400	140
145	56.6	209.5	15,200	58.5	207.7	15,700	60.2	203.8	16,200	145
150	55.2	206.0	14,100	57.1	204.1	14,700	58.8	200.2	15,200	150
155	53.7	202.2	13,200	55.6	200.3	13,700	57.3	196.3	14,200	155
160	52.3	198.3	12,300	54.1	196.4	12,800	55.7	192.2	13,200	160
165	50.8	194.1	11,500	52.6	192.2	11,900	54.2	187.9	12,300	165
170	49.2	189.7	10,700	51.0	187.7	11,100	52.6	183.4	11,500	170
175	47.6	185.1	10,000	49.4	183.0	10,400	50.9	178.6	10,700	175
180	46.0	180.2	9,300	47.8	178.0	9,700	49.2	173.5	10,000	180
185	44.3	175.0	8,700	46.1	172.8	9,000	47.5	168.1	9,300	185
190	42.6	169.5	8,000	44.3	167.2	8,300	45.7	162.3	8,600	190
195	40.8	163.6	7,500	42.5	161.2	7,700	43.8	156.1	8,000	195
200	38.9	157.3	6,900	40.6	154.8	7,200				200
205	37.0	150.6	6,400	38.6	148.0	6,600				205
210	34.9	143.4	5,900	36.5	140.6	6,100				210
215	32.8	135.5	5,400	34.3	132.6	5,600				215
220	30.5	127.0	4,900							220
225	28.0	117.6	4,300							225

MLC165-1 S-2

ASME B30.5



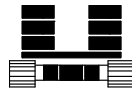
123,400 lb
+
45,100 lb



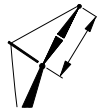
	5°			15°			25°			
	ft	°	ft	lb	ft	°	ft	lb	ft	
60	78.8		257.2	39,000						60
65	77.6		256.0	38,500	79.6	254.4	36,500			65
70	76.5		254.7	38,100	78.4	253.2	36,200			70
75	75.3		253.4	37,600	77.3	251.8	35,900	79.2	248.5	30,300
80	74.2		251.9	37,200	76.1	250.3	35,700	78.0	247.0	29,400
85	73.0		250.3	36,800	74.9	248.7	35,400	76.9	245.3	28,700
90	71.8		248.6	34,100	73.7	247.0	35,000	75.6	243.6	27,900
95	70.6		246.8	31,300	72.5	245.1	32,400	74.4	241.7	27,200
100	69.4		244.8	28,800	71.3	243.2	29,900	73.2	239.7	26,500
105	68.2		242.8	26,600	70.1	241.1	27,600	72.0	237.6	25,900
110	67.0		240.6	24,700	68.9	238.9	25,600	70.7	235.4	25,300
115	65.8		238.2	22,800	67.6	236.6	23,700	69.5	233.0	24,500
120	64.5		235.8	21,200	66.4	234.1	22,000	68.2	230.5	22,800
125	63.3		233.2	19,700	65.1	231.5	20,500	66.9	227.9	21,200
130	62.0		230.5	18,300	63.8	228.7	19,000	65.6	225.1	19,700
135	60.7		227.6	17,100	62.5	225.9	17,700	64.3	222.1	18,400
140	59.4		224.6	15,900	61.2	222.8	16,500	62.9	219.0	17,100
145	58.1		221.4	14,800	59.9	219.6	15,400	61.6	215.7	16,000
150	56.7		218.0	13,800	58.5	216.2	14,300	60.2	212.3	14,900
155	55.4		214.5	12,900	57.2	212.6	13,400	58.8	208.7	13,900
160	54.0		210.8	12,000	55.8	208.9	12,500	57.4	204.9	12,900
165	52.6		206.9	11,100	54.3	205.0	11,600	55.9	200.8	12,000
170	51.1		202.8	10,400	52.9	200.8	10,800	54.4	196.6	11,200
175	49.6		198.5	9,600	51.4	196.4	10,100	52.9	192.1	10,400
180	48.1		193.9	9,000	49.8	191.8	9,300	51.3	187.4	9,700
185	46.6		189.1	8,300	48.3	187.0	8,700	49.7	182.4	9,000
190	45.0		184.0	7,700	46.7	181.8	8,000	48.1	177.1	8,300
195	43.3		178.6	7,100	45.0	176.4	7,400	46.3	171.5	7,700
200	41.6		172.9	6,600	43.3	170.6	6,800	44.6	165.6	7,100
205	39.9		166.9	6,000	41.5	164.4	6,300			6,000
210	38.1		160.4	5,500	39.7	157.9	5,800			5,500
215	36.2		153.5	4,900	37.7	150.8	5,200			4,900
220	34.2		146.0	4,400	35.7	143.2	4,600			4,400
225					33.5	135.0	4,100			4,100

MLC165-1 S-2

ASME B30.5



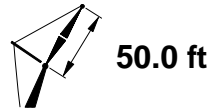
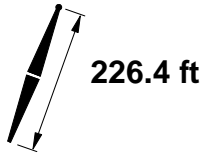
123,400 lb
+
45,100 lb



ft	5°			15°			25°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
60	79.2	267.2	38,400							60
65	78.1	266.1	38,000							65
70	77.0	264.9	37,600	78.9	263.3	35,800				70
75	75.9	263.6	37,200	77.8	262.0	35,600	79.7	258.7	30,500	75
80	74.8	262.2	36,800	76.6	260.6	35,400	78.5	257.2	29,800	80
85	73.6	260.6	36,500	75.5	259.0	35,100	77.4	255.6	29,000	85
90	72.5	259.0	33,700	74.4	257.4	34,800	76.2	254.0	28,200	90
95	71.4	257.2	30,900	73.2	255.6	32,100	75.1	252.2	27,600	95
100	70.2	255.4	28,500	72.1	253.8	29,500	73.9	250.3	26,900	100
105	69.1	253.4	26,300	70.9	251.8	27,300	72.7	248.3	26,300	105
110	67.9	251.3	24,300	69.7	249.7	25,200	71.5	246.1	25,700	110
115	66.7	249.1	22,500	68.5	247.4	23,400	70.3	243.9	24,200	115
120	65.5	246.8	20,800	67.3	245.1	21,700	69.1	241.5	22,500	120
125	64.3	244.3	19,300	66.1	242.6	20,100	67.9	239.0	20,900	125
130	63.1	241.7	17,900	64.9	240.0	18,700	66.6	236.3	19,400	130
135	61.9	239.0	16,700	63.7	237.2	17,400	65.4	233.5	18,000	135
140	60.7	236.1	15,500	62.4	234.3	16,200	64.1	230.6	16,800	140
145	59.4	233.1	14,400	61.2	231.3	15,000	62.8	227.5	15,600	145
150	58.1	229.9	13,400	59.9	228.1	14,000	61.5	224.2	14,500	150
155	56.8	226.5	12,500	58.6	224.7	13,000	60.2	220.8	13,500	155
160	55.5	223.0	11,600	57.3	221.2	12,100	58.8	217.2	12,600	160
165	54.2	219.4	10,700	55.9	217.4	11,200	57.5	213.4	11,700	165
170	52.8	215.5	10,000	54.5	213.5	10,400	56.1	209.4	10,900	170
175	51.4	211.4	9,200	53.1	209.5	9,700	54.6	205.2	10,100	175
180	50.0	207.2	8,600	51.7	205.1	9,000	53.2	200.8	9,300	180
185	48.6	202.7	7,900	50.2	200.6	8,300	51.7	196.2	8,600	185
190	47.1	198.0	7,300	48.7	195.8	7,700	50.1	191.3	8,000	190
195	45.6	193.0	6,700	47.2	190.8	7,000	48.6	186.1	7,300	195
200	44.0	187.7	6,100	45.6	185.5	6,500	46.9	180.7	6,700	200
205	42.4	182.2	5,500	44.0	179.9	5,900	45.3	174.9	6,200	205
210	40.8	176.3	4,900	42.3	173.9	5,300				210
215	39.0	170.1	4,400	40.6	167.6	4,700				215
220				38.8	160.8	4,100				220

MLC165-1 S-2

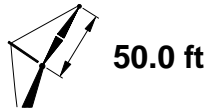
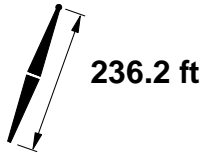
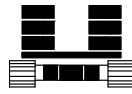
ASME B30.5



	5°			15°			25°				
	ft	°	ft	lb	ft	°	ft	lb	ft		
60	79.6		277.3	37,800						60	
65	78.5		276.2	37,400						65	
70	77.5		275.0	37,000	79.3	273.5	35,300			70	
75	76.4		273.8	36,700	78.2	272.2	35,100			75	
80	75.3		272.4	36,300	77.1	270.8	34,900	78.9	267.4	29,600	80
85	74.2		270.9	35,900	76.0	269.3	34,700	77.8	265.9	29,200	85
90	73.2		269.4	33,400	75.0	267.7	34,500	76.7	264.3	28,600	90
95	72.1		267.7	30,600	73.9	266.1	31,800	75.6	262.6	27,900	95
100	71.0		265.9	28,200	72.7	264.3	29,300	74.5	260.8	27,200	100
105	69.9		264.0	26,000	71.6	262.4	27,000	73.4	258.9	26,600	105
110	68.7		262.0	24,000	70.5	260.3	24,900	72.2	256.8	25,900	110
115	67.6		259.9	22,200	69.4	258.2	23,100	71.1	254.6	24,000	115
120	66.5		257.6	20,500	68.2	255.9	21,400	69.9	252.4	22,200	120
125	65.3		255.3	19,000	67.1	253.6	19,800	68.7	249.9	20,600	125
130	64.2		252.8	17,600	65.9	251.1	18,400	67.6	247.4	19,200	130
135	63.0		250.2	16,400	64.7	248.4	17,100	66.4	244.7	17,800	135
140	61.8		247.4	15,200	63.5	245.7	15,900	65.2	241.9	16,500	140
145	60.6		244.6	14,100	62.3	242.8	14,800	63.9	239.0	15,400	145
150	59.4		241.5	13,100	61.1	239.7	13,700	62.7	235.9	14,300	150
155	58.2		238.4	12,200	59.9	236.5	12,700	61.4	232.6	13,300	155
160	56.9		235.0	11,300	58.6	233.2	11,800	60.1	229.2	12,300	160
165	55.7		231.6	10,400	57.3	229.7	11,000	58.8	225.7	11,500	165
170	54.4		227.9	9,700	56.0	226.0	10,200	57.5	221.9	10,600	170
175	53.1		224.1	8,900	54.7	222.1	9,400	56.2	218.0	9,800	175
180	51.7		220.1	8,300	53.4	218.1	8,700	54.8	213.8	9,100	180
185	50.4		215.9	7,600	52.0	213.8	8,000	53.4	209.5	8,400	185
190	49.0		211.4	7,000	50.6	209.4	7,400	52.0	204.9	7,700	190
195	47.6		206.8	6,400	49.2	204.7	6,800	50.5	200.1	7,100	195
200	46.1		201.9	5,700	47.7	199.7	6,100	49.0	195.1	6,500	200
205	44.7		196.8	5,100	46.2	194.6	5,500	47.5	189.8	5,800	205
210	43.1		191.4	4,500	44.7	189.1	4,900	45.9	184.1	5,200	210
215					43.1	183.3	4,300	44.3	178.2	4,600	215

MLC165-1 S-2

ASME B30.5



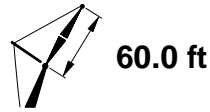
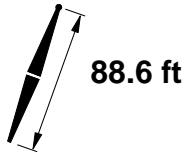
	5°			15°			25°			
	ft	°	ft	lb	ft	°	ft	lb	ft	
65	78.9		286.3							65
70	77.9		285.2							70
75	76.9		283.9							75
80	75.8		282.6							80
85	74.8		281.2							85
90	73.8		279.7							90
95	72.7		278.1							95
100	71.6		276.4							100
105	70.6		274.5							105
110	69.5		272.6							110
115	68.4		270.6							115
120	67.3		268.4							120
125	66.2		266.2							125
130	65.1		263.8							130
135	64.0		261.3							135
140	62.9		258.7							140
145	61.7		255.9							145
150	60.6		253.0							150
155	59.4		250.0							155
160	58.2		246.9							160
165	57.0		243.5							165
170	55.8		240.1							170
175	54.6		236.5							175
180	53.3		232.7							180
185	52.0		228.7							185
190	50.7		224.5							190
195	49.4		220.2							195
200	48.0		215.6							200
205	46.7		210.8							205
210										210

MLC165-1 S-2

ASME B30.5



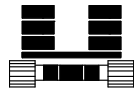
123,400 lb
+
45,100 lb



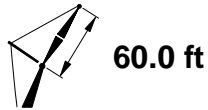
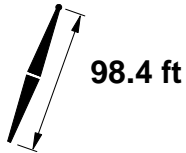
	5°			15°			25°				
	ft	°	ft	lb	ft	°	ft	lb	ft		
40	78.5		150.9	37,200						40	
45	76.5		149.6	36,200						45	
50	74.5		148.1	35,100	78.6	146.8	32,500			50	
55	72.4		146.4	34,100	76.5	145.0	31,800			55	
60	70.4		144.5	33,100	74.5	143.1	31,000	79.0	140.5	25,700	60
65	68.3		142.4	32,200	72.3	141.0	30,300	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	27,600	58.7	122.9	23,300	62.9	120.1	18,700	95
100	52.3		120.5	26,900	56.2	118.9	22,300	60.4	116.0	18,000	100
105	49.7		116.1	26,000	53.6	114.4	21,400	57.7	111.5	17,400	105
110	47.1		111.3	24,800	50.8	109.5	20,500	54.9	106.5	16,800	110
115	44.3		106.0	23,600	48.0	104.1	19,700	51.9	101.0	16,300	115
120	41.3		100.2	22,600	44.9	98.2	19,000	48.8	94.9	15,900	120
125	38.1		93.6	21,600	41.7	91.5	18,400	45.4	88.0	15,500	125
130	34.7		86.3	20,700	38.2	83.9	17,800				130
135	30.9		77.8	19,900	34.2	75.1	17,300				135
140	26.5		67.7	19,200							140
145	21.3		55.1	18,500							145

MLC165-1 S-2

ASME B30.5



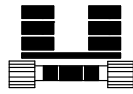
123,400 lb
+
45,100 lb



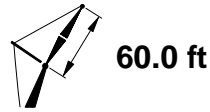
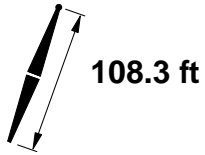
	5°			15°			25°				
	ft	°	ft	lb	ft	°	ft	lb	ft		
40	79.2		161.0	37,400						40	
45	77.4		159.8	36,400						45	
50	75.5		158.4	35,500	79.3	157.0	32,800			50	
55	73.6		156.8	34,500	77.4	155.4	32,000			55	
60	71.7		155.0	33,500	75.5	153.6	31,300			60	
65	69.7		153.1	32,600	73.5	151.6	30,600	77.8	148.9	24,900	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	28,200	61.0	135.1	24,400	65.0	132.2	19,300	95
100	55.1		133.1	27,600	58.7	131.4	23,300	62.7	128.5	18,600	100
105	52.8		129.1	26,900	56.4	127.4	22,400	60.3	124.5	18,000	105
110	50.4		124.9	26,300	54.0	123.1	21,500	57.8	120.0	17,400	110
115	47.9		120.2	25,200	51.5	118.4	20,700	55.2	115.2	16,900	115
120	45.4		115.1	24,100	48.8	113.2	20,000	52.5	109.9	16,400	120
125	42.6		109.5	23,000	46.1	107.5	19,300	49.7	104.1	16,000	125
130	39.8		103.4	22,000	43.1	101.2	18,700	46.6	97.6	15,600	130
135	36.7		96.5	20,800	40.0	94.2	18,100	43.3	90.4	15,300	135
140	33.4		88.8	19,600	36.6	86.3	17,600				140
145	29.7		79.9	18,500	32.8	77.1	17,100				145
150	25.5		69.4	17,500							150

MLC165-1 S-2

ASME B30.5



123,400 lb
+
45,100 lb



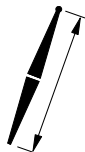
	5°			15°			25°				
	ft	°	ft	lb	ft	°	ft	lb	ft		
45	78.1		169.9	36,500						45	
50	76.4		168.6	35,600						50	
55	74.6		167.1	34,800	78.2	165.7	32,200			55	
60	72.8		165.5	33,900	76.4	164.0	31,500			60	
65	71.0		163.6	33,000	74.6	162.2	30,900	78.6	159.3	25,400	65
70	69.1		161.6	32,200	72.7	160.1	30,200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

MLC165-1 S-2

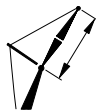
ASME B30.5



123,400 lb
+
45,100 lb



118.1 ft



60.0 ft

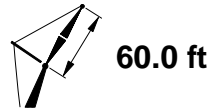
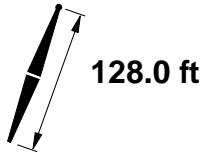
ft	5°			15°			25°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45	78.8	180.0	36,500							45
50	77.1	178.8	35,800							50
55	75.5	177.4	35,000	78.9	175.9	32,300				55
60	73.8	175.9	34,200	77.2	174.4	31,700				60
65	72.1	174.1	33,400	75.5	172.6	31,100	79.3	169.7	25,900	65
70	70.4	172.2	32,600	73.7	170.7	30,500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

MLC165-1 S-2

ASME B30.5



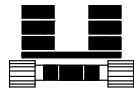
123,400 lb
+
45,100 lb



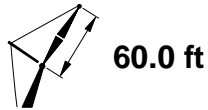
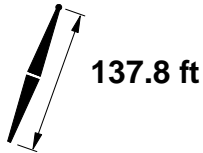
	5°			15°			25°				
	ft	°	ft	lb	ft	°	ft	lb	ft		
45	79.4		190.1	36,600						45	
50	77.8		189.0	35,900						50	
55	76.2		187.6	35,100	79.5	186.2	32,500			55	
60	74.7		186.2	34,400	77.9	184.7	31,800			60	
65	73.1		184.6	33,600	76.3	183.0	31,200			65	
70	71.4		182.8	32,800	74.6	181.2	30,700	78.2	178.2	25,200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

MLC165-1 S-2

ASME B30.5



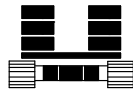
123,400 lb
+
45,100 lb



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	31,100	70.7	185.7	29,400	74.0	182.6	22,800	85
90	66.1	185.0	30,500	69.1	183.3	28,900	72.4	180.2	22,100	90
95	64.5	182.5	29,900	67.5	180.8	28,200	70.7	177.7	21,300	95
100	62.9	179.8	29,400	65.8	178.2	27,000	69.0	175.0	20,700	100
105	61.2	177.0	28,800	64.1	175.3	26,000	67.3	172.1	20,000	105
110	59.5	173.9	26,900	62.4	172.2	25,100	65.6	169.0	19,500	110
115	57.8	170.7	25,100	60.7	168.9	24,200	63.8	165.6	18,900	115
120	56.0	167.2	23,500	58.9	165.4	23,400	62.0	162.1	18,400	120
125	54.2	163.5	22,000	57.1	161.6	22,600	60.1	158.3	17,900	125
130	52.3	159.5	20,600	55.2	157.6	21,200	58.2	154.2	17,500	130
135	50.4	155.3	19,300	53.3	153.3	19,900	56.2	149.8	17,100	135
140	48.5	150.7	18,200	51.3	148.7	18,700	54.2	145.1	16,700	140
145	46.5	145.9	17,100	49.2	143.8	17,500	52.1	140.1	16,400	145
150	44.4	140.6	16,100	47.1	138.5	16,500	49.9	134.7	16,000	150
155	42.2	135.0	15,100	44.9	132.7	15,500	47.6	128.8	15,700	155
160	39.9	128.9	14,200	42.5	126.5	14,600	45.2	122.4	15,000	160
165	37.5	122.3	13,400	40.1	119.7	13,700				165
170	34.9	115.0	12,600	37.5	112.3	12,900				170
175	32.2	106.9	11,900	34.6	104.0	12,100				175
180	29.2	97.9	11,200	31.5	94.7	11,400				180
185	25.9	87.6	10,500							185
190	22.0	75.4	9,900							190

MLC165-1 S-2

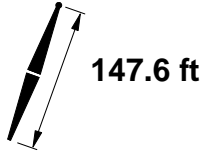
ASME B30.5



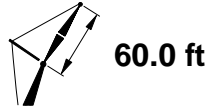
123,400 lb
+
45,100 lb



360°



147.6 ft

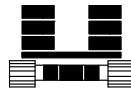


60.0 ft

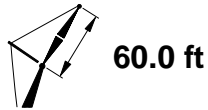
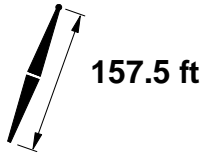
	5°			15°			25°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50	79.0	209.2	35,700							50
55	77.6	208.0	35,200							55
60	76.2	206.7	34,500	79.1	205.1	32,000				60
65	74.7	205.2	33,900	77.6	203.7	31,500				65
70	73.3	203.6	33,300	76.2	202.1	31,000	79.4	198.9	26,000	70
75	71.8	201.9	32,600	74.7	200.3	30,500	77.9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

MLC165-1 S-2

ASME B30.5



123,400 lb
+
45,100 lb



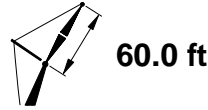
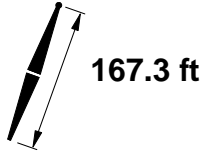
ft	5°			15°			25°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50	79.5	219.2	35,600							50
55	78.2	218.1	35,000							55
60	76.8	216.9	34,500	79.6	215.3	32,000				60
65	75.4	215.5	33,900	78.2	213.9	31,500				65
70	74.1	214.0	33,300	76.8	212.4	31,000				70
75	72.7	212.3	32,700	75.4	210.7	30,600	78.5	207.5	25,400	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	31,600	72.6	207.0	29,700	75.6	203.8	23,700	85
90	68.4	206.6	31,000	71.2	204.9	29,300	74.2	201.7	22,900	90
95	67.0	204.4	30,400	69.7	202.7	28,900	72.7	199.4	22,200	95
100	65.5	202.0	29,900	68.2	200.3	28,500	71.2	197.0	21,500	100
105	64.1	199.5	28,600	66.7	197.8	27,700	69.7	194.5	20,900	105
110	62.6	196.8	26,600	65.2	195.0	26,700	68.1	191.7	20,300	110
115	61.0	193.9	24,800	63.7	192.2	25,600	66.6	188.8	19,800	115
120	59.5	190.9	23,100	62.1	189.1	23,900	65.0	185.7	19,300	120
125	57.9	187.7	21,600	60.6	185.8	22,300	63.4	182.4	18,800	125
130	56.3	184.2	20,300	58.9	182.4	20,900	61.7	178.9	18,300	130
135	54.7	180.6	19,000	57.3	178.7	19,600	60.0	175.2	17,900	135
140	53.0	176.7	17,800	55.6	174.8	18,400	58.3	171.2	17,500	140
145	51.3	172.6	16,800	53.9	170.6	17,300	56.6	167.0	17,200	145
150	49.6	168.3	15,700	52.1	166.2	16,200	54.7	162.5	16,800	150
155	47.8	163.6	14,800	50.3	161.5	15,300	52.9	157.7	15,800	155
160	45.9	158.7	13,900	48.4	156.5	14,300	51.0	152.6	14,800	160
165	44.0	153.4	13,100	46.5	151.1	13,500	49.0	147.1	13,900	165
170	42.0	147.7	12,300	44.4	145.4	12,700	46.9	141.3	13,100	170
175	39.9	141.7	11,600	42.3	139.2	11,900	44.7	134.9	12,300	175
180	37.8	135.1	10,900	40.1	132.5	11,200				180
185	35.5	128.0	10,200	37.8	125.2	10,500				185
190	33.0	120.2	9,600	35.3	117.2	9,900				190
195	30.4	111.6	9,000	32.6	108.4	9,200				195
200	27.5	102.0	8,500							200
205	24.4	90.9	7,900							205
210	20.7	77.9	7,400							210

MLC165-1 S-2

ASME B30.5



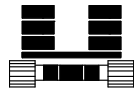
123,400 lb
+
45,100 lb



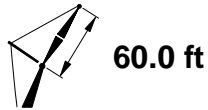
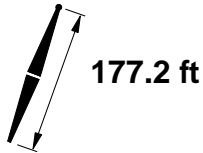
	5°			15°			25°				
	ft	°	ft	lb	ft	°	ft	lb	ft		
55	78.7		228.2	34,900						55	
60	77.4		227.0	34,300						60	
65	76.1		225.7	33,800	78.7	224.1	31,500			65	
70	74.8		224.3	33,300	77.4	222.6	31,100			70	
75	73.4		222.7	32,800	76.1	221.1	30,600	79.0	217.8	25,700	75
80	72.1		221.0	32,300	74.8	219.4	30,200	77.7	216.1	24,900	80
85	70.8		219.2	31,700	73.4	217.5	29,800	76.3	214.2	24,000	85
90	69.4		217.2	31,100	72.0	215.6	29,400	74.9	212.3	23,300	90
95	68.0		215.1	30,600	70.7	213.4	29,000	73.5	210.1	22,600	95
100	66.7		212.9	30,100	69.3	211.2	28,600	72.1	207.9	21,900	100
105	65.3		210.5	28,200	67.9	208.8	28,300	70.7	205.4	21,300	105
110	63.9		208.0	26,200	66.4	206.2	27,100	69.2	202.9	20,700	110
115	62.4		205.3	24,400	65.0	203.5	25,300	67.7	200.1	20,200	115
120	61.0		202.4	22,800	63.5	200.6	23,600	66.2	197.2	19,700	120
125	59.5		199.4	21,300	62.0	197.5	22,000	64.7	194.1	19,200	125
130	58.0		196.2	19,900	60.5	194.3	20,600	63.2	190.8	18,700	130
135	56.5		192.8	18,700	59.0	190.9	19,300	61.6	187.3	18,300	135
140	54.9		189.1	17,500	57.4	187.2	18,100	60.0	183.7	17,900	140
145	53.3		185.3	16,400	55.8	183.4	17,000	58.4	179.7	17,500	145
150	51.7		181.3	15,400	54.2	179.3	15,900	56.7	175.6	16,500	150
155	50.0		177.0	14,500	52.5	174.9	15,000	55.0	171.2	15,500	155
160	48.3		172.5	13,600	50.7	170.3	14,000	53.2	166.5	14,500	160
165	46.6		167.6	12,700	49.0	165.4	13,200	51.4	161.5	13,700	165
170	44.8		162.5	12,000	47.1	160.2	12,400	49.5	156.2	12,800	170
175	42.9		157.0	11,200	45.2	154.6	11,600	47.6	150.5	12,000	175
180	41.0		151.1	10,600	43.3	148.7	10,900	45.5	144.4	11,300	180
185	38.9		144.8	9,900	41.2	142.3	10,200	43.4	137.8	10,500	185
190	36.8		138.1	9,300	39.0	135.4	9,600				190
195	34.6		130.7	8,700	36.7	127.8	9,000				195
200	32.2		122.7	8,100	34.3	119.6	8,400				200
205	29.6		113.8	7,600	31.6	110.5	7,800				205
210	26.8		103.9	7,100							210
215	23.7		92.5	6,600							215

MLC165-1 S-2

ASME B30.5



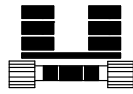
123,400 lb
+
45,100 lb



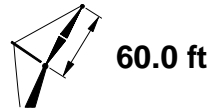
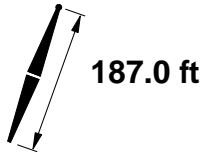
ft	5°			15°			25°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55	79.2	238.3	34,700							55
60	77.9	237.2	34,100							60
65	76.7	235.9	33,600	79.2	234.3	31,400				65
70	75.4	234.5	33,200	78.0	232.9	31,000				70
75	74.2	233.0	32,700	76.7	231.4	30,600	79.5	228.1	26,100	75
80	72.9	231.4	32,200	75.4	229.8	30,200	78.2	226.4	25,200	80
85	71.6	229.7	31,800	74.1	228.0	29,800	76.9	224.7	24,400	85
90	70.3	227.8	31,200	72.8	226.1	29,500	75.6	222.8	23,700	90
95	69.0	225.8	30,700	71.5	224.1	29,100	74.3	220.8	23,000	95
100	67.7	223.7	30,000	70.2	222.0	28,700	72.9	218.6	22,300	100
105	66.4	221.4	27,800	68.9	219.7	28,400	71.6	216.3	21,700	105
110	65.0	219.0	25,800	67.5	217.3	26,800	70.2	213.9	21,100	110
115	63.7	216.5	24,000	66.1	214.7	24,900	68.8	211.3	20,600	115
120	62.3	213.7	22,400	64.7	211.9	23,200	67.4	208.5	20,100	120
125	60.9	210.9	20,900	63.3	209.1	21,700	65.9	205.6	19,600	125
130	59.5	207.9	19,500	61.9	206.0	20,300	64.5	202.5	19,100	130
135	58.1	204.6	18,300	60.5	202.8	18,900	63.0	199.2	18,700	135
140	56.6	201.3	17,100	59.0	199.3	17,700	61.5	195.8	18,300	140
145	55.1	197.7	16,000	57.5	195.7	16,600	60.0	192.1	17,300	145
150	53.6	193.9	15,000	56.0	191.9	15,600	58.4	188.3	16,200	150
155	52.0	189.9	14,000	54.4	187.9	14,600	56.8	184.2	15,200	155
160	50.5	185.7	13,200	52.8	183.6	13,700	55.2	179.8	14,200	160
165	48.8	181.2	12,300	51.2	179.1	12,800	53.5	175.2	13,300	165
170	47.2	176.5	11,600	49.5	174.3	12,000	51.8	170.4	12,500	170
175	45.5	171.5	10,800	47.7	169.2	11,200	50.0	165.2	11,700	175
180	43.7	166.2	10,100	45.9	163.8	10,500	48.2	159.7	10,900	180
185	41.9	160.5	9,500	44.1	158.0	9,900	46.3	153.8	10,200	185
190	40.0	154.4	8,900	42.2	151.9	9,200	44.3	147.4	9,500	190
195	38.0	147.9	8,300	40.1	145.3	8,600				195
200	35.9	140.9	7,700	38.0	138.1	8,000				200
205	33.7	133.3	7,200	35.8	130.4	7,500				205
210	31.4	125.0	6,700	33.4	121.9	6,900				210
215	28.9	115.9	6,200							215
220	26.1	105.7	5,800							220
225	23.0	94.0	5,300							225

MLC165-1 S-2

ASME B30.5



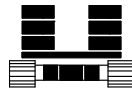
123,400 lb
+
45,100 lb



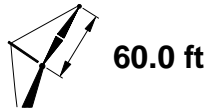
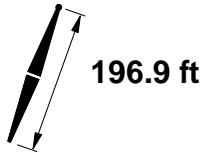
	5°			15°			25°				
	ft	°	ft	lb	ft	°	ft	lb	ft		
55	79.6		248.4	34,400						55	
60	78.4		247.3	33,900						60	
65	77.2		246.1	33,500	79.7	244.4	31,300			65	
70	76.0		244.7	33,100	78.5	243.1	30,900			70	
75	74.8		243.3	32,600	77.3	241.6	30,500			75	
80	73.6		241.8	32,100	76.0	240.1	30,200	78.7	236.7	25,500	80
85	72.4		240.1	31,700	74.8	238.4	29,800	77.5	235.0	24,700	85
90	71.1		238.3	31,200	73.6	236.6	29,500	76.2	233.2	24,000	90
95	69.9		236.4	30,800	72.3	234.7	29,100	74.9	231.3	23,300	95
100	68.6		234.4	29,700	71.0	232.7	28,800	73.7	229.3	22,700	100
105	67.4		232.2	27,500	69.8	230.5	28,500	72.4	227.1	22,000	105
110	66.1		229.9	25,500	68.5	228.2	26,500	71.1	224.7	21,500	110
115	64.8		227.5	23,700	67.2	225.7	24,700	69.7	222.3	20,900	115
120	63.5		224.9	22,100	65.9	223.1	23,000	68.4	219.7	20,400	120
125	62.2		222.2	20,600	64.5	220.4	21,400	67.0	216.9	19,900	125
130	60.8		219.4	19,200	63.2	217.5	20,000	65.7	214.0	19,500	130
135	59.5		216.3	18,000	61.8	214.4	18,700	64.3	210.9	19,100	135
140	58.1		213.1	16,800	60.4	211.2	17,500	62.9	207.6	18,200	140
145	56.7		209.8	15,700	59.0	207.8	16,300	61.4	204.2	17,100	145
150	55.3		206.2	14,700	57.6	204.2	15,300	60.0	200.6	16,000	150
155	53.8		202.5	13,800	56.1	200.5	14,300	58.5	196.8	15,000	155
160	52.4		198.5	12,900	54.6	196.5	13,400	57.0	192.7	14,000	160
165	50.9		194.4	12,000	53.1	192.3	12,600	55.4	188.4	13,100	165
170	49.3		190.0	11,300	51.5	187.8	11,700	53.8	183.9	12,300	170
175	47.7		185.4	10,500	49.9	183.1	11,000	52.2	179.2	11,500	175
180	46.1		180.4	9,900	48.3	178.2	10,300	50.5	174.1	10,700	180
185	44.4		175.3	9,200	46.6	172.9	9,600	48.7	168.7	10,000	185
190	42.7		169.7	8,600	44.8	167.3	9,000	46.9	163.0	9,300	190
195	40.9		163.9	8,000	43.0	161.4	8,300	45.1	156.9	8,700	195
200	39.1		157.6	7,500	41.1	155.0	7,800	43.1	150.4	8,100	200
205	37.1		150.9	6,900	39.1	148.2	7,200				205
210	35.1		143.7	6,400	37.1	140.8	6,700				210
215	32.9		135.9	5,900	34.9	132.8	6,200				215
220	30.6		127.4	5,500	32.5	124.1	5,700				220
225	28.2		118.0	5,000							225
230	25.5		107.5	4,600							230
235	22.4		95.4	4,100							235

MLC165-1 S-2

ASME B30.5



123,400 lb
+
45,100 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	32,000	76.6	250.4	30,100	79.2	247.0	25,800	80
85	73.1		250.5	31,500	75.4	248.8	29,800	78.0	245.4	25,100	85
90	71.9		248.8	31,100	74.2	247.1	29,400	76.8	243.7	24,300	90
95	70.7		247.0	30,700	73.0	245.2	29,100	75.6	241.8	23,600	95
100	69.5		245.0	29,300	71.8	243.3	28,800	74.3	239.8	23,000	100
105	68.3		243.0	27,100	70.6	241.2	28,200	73.1	237.8	22,400	105
110	67.1		240.8	25,100	69.4	239.0	26,200	71.9	235.5	21,800	110
115	65.9		238.5	23,300	68.1	236.7	24,300	70.6	233.2	21,300	115
120	64.6		236.0	21,700	66.9	234.2	22,600	69.3	230.7	20,800	120
125	63.4		233.4	20,200	65.6	231.6	21,100	68.0	228.1	20,300	125
130	62.1		230.7	18,800	64.3	228.9	19,600	66.7	225.3	19,800	130
135	60.8		227.8	17,600	63.0	226.0	18,300	65.4	222.4	19,200	135
140	59.5		224.8	16,400	61.7	222.9	17,100	64.1	219.3	17,900	140
145	58.2		221.6	15,300	60.4	219.7	16,000	62.7	216.1	16,800	145
150	56.8		218.3	14,300	59.0	216.3	14,900	61.4	212.6	15,700	150
155	55.5		214.8	13,400	57.7	212.8	14,000	59.9	209.1	14,600	155
160	54.1		211.0	12,500	56.2	209.0	13,000	58.5	205.3	13,700	160
165	52.7		207.1	11,600	54.8	205.1	12,200	57.1	201.3	12,800	165
170	51.2		203.0	10,900	53.4	200.9	11,400	55.6	197.1	11,900	170
175	49.7		198.7	10,100	51.9	196.6	10,600	54.1	192.6	11,100	175
180	48.2		194.2	9,500	50.3	191.9	9,900	52.5	187.9	10,400	180
185	46.7		189.4	8,800	48.8	187.1	9,200	50.9	183.0	9,700	185
190	45.1		184.3	8,200	47.2	181.9	8,600	49.2	177.8	9,000	190
195	43.4		178.9	7,600	45.5	176.5	8,000	47.5	172.2	8,400	195
200	41.8		173.2	7,100	43.8	170.7	7,400	45.8	166.3	7,800	200
205	40.0		167.2	6,500	42.0	164.6	6,800	43.9	160.0	7,200	205
210	38.2		160.7	6,000	40.2	158.0	6,300				210
215	36.3		153.8	5,500	38.2	151.0	5,800				215
220	34.3		146.4	5,000	36.2	143.4	5,300				220
225	32.2		138.4	4,500	34.0	135.2	4,800				225
230	29.9		129.6	4,000	31.7	126.2	4,300				230

MLC165-1 S-2

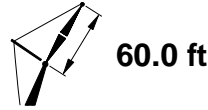
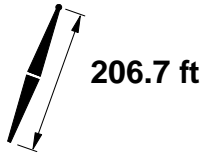
ASME B30.5



123,400 lb
+
45,100 lb



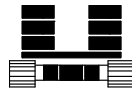
360°



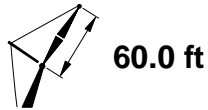
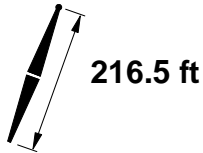
	5°			15°			25°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
60	79.3	267.4	33,300							60
65	78.2	266.3	32,900							65
70	77.1	265.1	32,400	79.3	263.4	30,600				70
75	76.0	263.8	32,100	78.2	262.1	30,300				75
80	74.8	262.4	31,700	77.1	260.7	30,000	79.6	257.2	26,100	80
85	73.7	260.8	31,400	76.0	259.1	29,600	78.5	255.7	25,400	85
90	72.6	259.2	31,000	74.8	257.5	29,300	77.3	254.0	24,600	90
95	71.5	257.4	30,600	73.7	255.7	29,000	76.1	252.2	24,000	95
100	70.3	255.6	29,000	72.5	253.8	28,700	75.0	250.4	23,300	100
105	69.1	253.6	26,800	71.4	251.9	28,000	73.8	248.4	22,700	105
110	68.0	251.5	24,800	70.2	249.7	25,900	72.6	246.3	22,200	110
115	66.8	249.3	23,000	69.0	247.5	24,000	71.4	244.0	21,600	115
120	65.6	247.0	21,400	67.8	245.2	22,300	70.2	241.6	21,100	120
125	64.4	244.5	19,900	66.6	242.7	20,800	69.0	239.1	20,600	125
130	63.2	241.9	18,500	65.4	240.1	19,300	67.7	236.5	20,200	130
135	62.0	239.2	17,200	64.2	237.3	18,000	66.5	233.7	18,900	135
140	60.7	236.3	16,000	62.9	234.4	16,800	65.2	230.8	17,600	140
145	59.5	233.3	14,900	61.6	231.4	15,700	63.9	227.7	16,500	145
150	58.2	230.1	13,900	60.4	228.2	14,600	62.6	224.5	15,400	150
155	56.9	226.8	13,000	59.0	224.8	13,600	61.3	221.1	14,400	155
160	55.6	223.3	12,100	57.7	221.3	12,700	59.9	217.5	13,400	160
165	54.3	219.6	11,300	56.4	217.6	11,900	58.6	213.8	12,500	165
170	52.9	215.7	10,500	55.0	213.7	11,100	57.2	209.8	11,700	170
175	51.5	211.7	9,800	53.6	209.6	10,300	55.7	205.7	10,900	175
180	50.1	207.4	9,100	52.2	205.3	9,600	54.3	201.3	10,100	180
185	48.7	202.9	8,500	50.7	200.7	8,900	52.8	196.7	9,400	185
190	47.2	198.2	7,800	49.2	196.0	8,300	51.3	191.8	8,700	190
195	45.7	193.3	7,300	47.7	190.9	7,700	49.7	186.7	8,100	195
200	44.1	188.0	6,700	46.1	185.6	7,100	48.1	181.3	7,500	200
205	42.5	182.5	6,200	44.5	180.0	6,500	46.4	175.6	6,900	205
210	40.9	176.6	5,700	42.8	174.0	6,000	44.7	169.5	6,300	210
215	39.2	170.4	5,100	41.1	167.7	5,500	42.9	163.0	5,800	215
220	37.4	163.7	4,500	39.2	161.0	4,900				220
225	35.5	156.7	4,000	37.3	153.7	4,400				225

MLC165-1 S-2

ASME B30.5



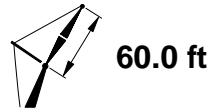
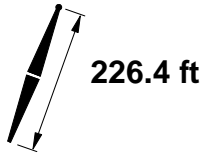
123,400 lb
+
45,100 lb



ft	5°			15°			25°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
60	79.7	277.5	32,900							60
65	78.6	276.4	32,500							65
70	77.5	275.2	32,100							70
75	76.5	274.0	31,700	78.7	272.3	30,100				75
80	75.4	272.6	31,400	77.6	270.9	29,700				80
85	74.3	271.1	31,100	76.5	269.4	29,500	78.9	265.9	25,600	85
90	73.2	269.6	30,700	75.4	267.8	29,200	77.8	264.3	24,900	90
95	72.1	267.9	30,300	74.3	266.1	28,900	76.7	262.6	24,300	95
100	71.0	266.1	28,600	73.2	264.3	28,600	75.5	260.8	23,600	100
105	69.9	264.2	26,400	72.1	262.4	27,600	74.4	258.9	23,000	105
110	68.8	262.2	24,400	71.0	260.4	25,600	73.3	256.9	22,500	110
115	67.7	260.1	22,600	69.8	258.3	23,700	72.1	254.7	21,900	115
120	66.6	257.8	21,000	68.7	256.0	22,000	71.0	252.5	21,400	120
125	65.4	255.5	19,500	67.5	253.7	20,400	69.8	250.1	21,000	125
130	64.2	253.0	18,100	66.4	251.2	19,000	68.6	247.6	20,000	130
135	63.1	250.4	16,800	65.2	248.5	17,700	67.4	244.9	18,600	135
140	61.9	247.7	15,600	64.0	245.8	16,400	66.2	242.1	17,300	140
145	60.7	244.8	14,600	62.8	242.9	15,300	65.0	239.2	16,200	145
150	59.5	241.8	13,500	61.6	239.8	14,300	63.7	236.1	15,100	150
155	58.3	238.6	12,600	60.3	236.6	13,300	62.5	232.9	14,000	155
160	57.0	235.3	11,700	59.1	233.3	12,400	61.2	229.5	13,100	160
165	55.8	231.8	10,900	57.8	229.8	11,500	59.9	226.0	12,200	165
170	54.5	228.2	10,100	56.5	226.1	10,700	58.6	222.3	11,300	170
175	53.2	224.3	9,400	55.2	222.2	9,900	57.3	218.4	10,500	175
180	51.8	220.3	8,700	53.8	218.2	9,200	55.9	214.3	9,800	180
185	50.5	216.1	8,000	52.5	213.9	8,500	54.5	209.9	9,100	185
190	49.1	211.7	7,400	51.1	209.5	7,900	53.1	205.4	8,400	190
195	47.7	207.1	6,900	49.6	204.8	7,300	51.6	200.7	7,800	195
200	46.2	202.2	6,300	48.2	199.9	6,700	50.1	195.6	7,200	200
205	44.8	197.1	5,700	46.7	194.7	6,200	48.6	190.4	6,600	205
210	43.2	191.7	5,100	45.1	189.2	5,500	47.0	184.8	6,000	210
215	41.7	186.0	4,500	43.5	183.4	4,900	45.4	178.9	5,400	215
220	40.0	179.9	4,000	41.9	177.3	4,400	43.7	172.6	4,800	220

MLC165-1 S-2

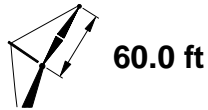
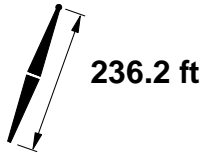
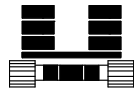
ASME B30.5



	5°			15°			25°				
	ft	°	ft	lb	ft	°	ft	lb	ft		
65	79.0		286.5	32,100						65	
70	78.0		285.3	31,700						70	
75	76.9		284.1	31,300	79.1	282.4	29,800			75	
80	75.9		282.8	31,000	78.0	281.1	29,500			80	
85	74.9		281.4	30,700	77.0	279.7	29,200	79.3	276.1	25,800	85
90	73.8		279.9	30,400	75.9	278.1	29,000	78.2	274.6	25,200	90
95	72.8		278.3	30,000	74.9	276.5	28,700	77.2	273.0	24,500	95
100	71.7		276.6	28,300	73.8	274.8	28,400	76.1	271.3	23,900	100
105	70.7		274.7	26,100	72.7	273.0	27,400	75.0	269.4	23,300	105
110	69.6		272.8	24,100	71.6	271.0	25,300	73.9	267.5	22,800	110
115	68.5		270.8	22,300	70.6	269.0	23,400	72.8	265.4	22,200	115
120	67.4		268.6	20,700	69.5	266.8	21,700	71.7	263.2	21,700	120
125	66.3		266.4	19,200	68.4	264.5	20,100	70.6	261.0	21,200	125
130	65.2		264.0	17,800	67.2	262.1	18,700	69.4	258.5	19,800	130
135	64.1		261.5	16,500	66.1	259.6	17,400	68.3	256.0	18,400	135
140	63.0		258.9	15,300	65.0	257.0	16,200	67.1	253.4	17,100	140
145	61.8		256.1	14,200	63.8	254.2	15,000	66.0	250.6	15,900	145
150	60.7		253.3	13,200	62.7	251.3	14,000	64.8	247.6	14,800	150
155	59.5		250.2	12,300	61.5	248.3	13,000	63.6	244.6	13,800	155
160	58.3		247.1	11,400	60.3	245.1	12,100	62.4	241.4	12,800	160
165	57.1		243.8	10,600	59.1	241.8	11,200	61.1	238.0	11,900	165
170	55.9		240.3	9,800	57.9	238.3	10,400	59.9	234.5	11,100	170
175	54.7		236.7	9,100	56.6	234.6	9,700	58.6	230.8	10,300	175
180	53.4		232.9	8,400	55.3	230.8	8,900	57.3	226.9	9,500	180
185	52.1		228.9	7,700	54.0	226.8	8,300	56.0	222.8	8,800	185
190	50.8		224.8	7,100	52.7	222.6	7,600	54.7	218.6	8,200	190
195	49.5		220.4	6,500	51.4	218.2	7,000	53.3	214.1	7,500	195
200	48.1		215.9	5,900	50.0	213.6	6,400	51.9	209.4	6,900	200
205	46.8		211.1	5,200	48.6	208.8	5,800	50.5	204.5	6,300	205
210	45.3		206.1	4,600	47.2	203.7	5,100	49.0	199.4	5,700	210
215	43.9		200.8	4,100	45.7	198.3	4,600	47.5	193.9	5,000	215
220					44.2	192.7	4,000	46.0	188.2	4,400	220

MLC165-1 S-2

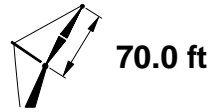
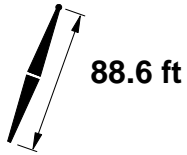
ASME B30.5



ft	5°			15°			25°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
65	79.4	296.5	31,800							65
70	78.4	295.4	31,400							70
75	77.4	294.3	31,000	79.4	292.5	29,700				75
80	76.4	293.0	30,600	78.4	291.3	29,400				80
85	75.4	291.6	30,400	77.4	289.9	29,100	79.7	286.3	25,000	85
90	74.4	290.2	30,000	76.4	288.4	28,800	78.6	284.9	24,600	90
95	73.4	288.6	29,700	75.4	286.9	28,500	77.6	283.3	24,300	95
100	72.4	287.0	27,800	74.4	285.2	28,300	76.6	281.6	23,900	100
105	71.3	285.2	25,600	73.3	283.4	26,900	75.5	279.9	23,600	105
110	70.3	283.4	23,600	72.3	281.6	24,900	74.5	278.0	23,100	110
115	69.3	281.4	21,800	71.3	279.6	23,000	73.4	276.0	22,500	115
120	68.2	279.4	20,200	70.2	277.5	21,300	72.3	273.9	22,000	120
125	67.2	277.2	18,600	69.1	275.3	19,700	71.3	271.7	20,900	125
130	66.1	274.9	17,300	68.1	273.1	18,300	70.2	269.4	19,400	130
135	65.0	272.5	16,000	67.0	270.6	16,900	69.1	267.0	18,000	135
140	63.9	270.0	14,800	65.9	268.1	15,700	68.0	264.5	16,700	140
145	62.8	267.4	13,700	64.8	265.5	14,600	66.9	261.8	15,500	145
150	61.7	264.6	12,700	63.7	262.7	13,500	65.7	259.0	14,400	150
155	60.6	261.7	11,800	62.6	259.8	12,500	64.6	256.1	13,400	155
160	59.5	258.7	10,900	61.4	256.7	11,600	63.4	253.0	12,400	160
165	58.3	255.6	10,100	60.3	253.6	10,700	62.3	249.8	11,500	165
170	57.2	252.3	9,300	59.1	250.2	9,900	61.1	246.4	10,600	170
175	56.0	248.8	8,500	57.9	246.8	9,200	59.9	242.9	9,800	175
180	54.8	245.2	7,900	56.7	243.1	8,400	58.7	239.3	9,100	180
185	53.6	241.5	7,200	55.5	239.4	7,800	57.4	235.4	8,400	185
190	52.4	237.6	6,400	54.2	235.4	7,100	56.2	231.4	7,700	190
195	51.1	233.4	5,700	53.0	231.3	6,400	54.9	227.2	7,100	195
200	49.9	229.2	5,100	51.7	226.9	5,700	53.6	222.8	6,400	200
205	48.5	224.7	4,500	50.4	222.4	5,100	52.2	218.2	5,700	205
210				49.0	217.6	4,400	50.8	213.4	5,000	210
215							49.4	208.3	4,400	215

MLC165-1 S-2

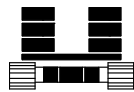
ASME B30.5



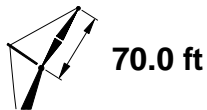
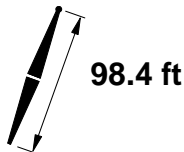
	5°			15°			25°				
	ft	°	ft	lb	ft	°	ft	lb	ft		
40	79.1		161.2	31,600						40	
45	77.2		160.0	30,600						45	
50	75.3		158.6	29,600						50	
55	73.4		157.0	28,800	78.3	156.0	26,400			55	
60	71.5		155.2	27,900	76.4	154.3	25,800			60	
65	69.6		153.3	27,200	74.4	152.3	25,200	79.1	149.3	22,000	65
70	67.6		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	20,800	52.5	119.7	18,200	56.6	115.7	14,300	115
120	45.3		115.4	20,400	49.9	114.6	17,500	53.9	110.4	13,800	120
125	42.6		109.9	19,500	47.2	109.1	16,800	51.1	104.6	13,400	125
130	39.7		103.7	18,700	44.3	102.9	16,200	48.0	98.2	13,000	130
135	36.6		96.9	17,900	41.3	96.1	15,700	44.8	91.0	12,700	135
140	33.3		89.2	17,200	37.9	88.4	15,200				140
145	29.7		80.4	16,500	34.2	79.5	14,700				145
150	25.5		70.0	15,900							150
155	20.4		57.0	15,400							155

MLC165-1 S-2

ASME B30.5



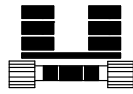
123,400 lb
+
45,100 lb



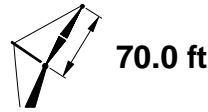
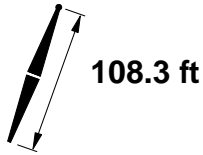
ft	5°			15°			25°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45	78.0	170.2	30,800							45
50	76.2	168.8	29,900							50
55	74.4	167.4	29,100	79.0	166.3	26,600				55
60	72.6	165.7	28,200	77.2	164.7	26,000				60
65	70.8	163.9	27,500	75.4	162.9	25,400				65
70	69.0	161.9	26,800	73.5	160.9	24,800	77.9	157.6	21,300	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	21,900	57.5	137.1	19,900	61.5	133.3	15,300	110
115	50.9	133.9	21,400	55.3	133.0	19,100	59.2	129.0	14,800	115
120	48.6	129.3	20,900	53.0	128.4	18,400	56.8	124.3	14,300	120
125	46.2	124.4	20,500	50.6	123.5	17,700	54.3	119.2	13,900	125
130	43.7	119.1	19,900	48.1	118.2	17,100	51.7	113.7	13,500	130
135	41.1	113.3	19,100	45.5	112.4	16,500	48.9	107.6	13,100	135
140	38.3	106.8	18,300	42.7	105.9	15,900	46.0	100.8	12,800	140
145	35.4	99.7	17,600	39.7	98.8	15,400	42.8	93.2	12,500	145
150	32.1	91.7	17,000	36.4	90.7	15,000				150
155	28.6	82.5	16,400	32.8	81.5	14,600				155
160	24.5	71.6	15,800							160
165	19.6	58.0	15,100							165

MLC165-1 S-2

ASME B30.5



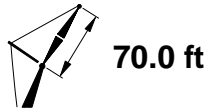
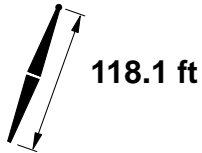
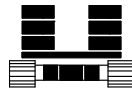
123,400 lb
+
45,100 lb



	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	168.1	21,700	70
75	68.5		170.4	26,400	72.8	169.4	24,600	76.8	166.0	20,700	75
80	66.7		168.2	25,800	71.0	167.1	24,100	75.0	163.7	19,800	80
85	64.9		165.8	25,200	69.2	164.7	23,600	73.2	161.2	19,000	85
90	63.1		163.1	24,600	67.4	162.1	23,200	71.3	158.6	18,200	90
95	61.3		160.3	24,000	65.5	159.3	22,800	69.4	155.7	17,500	95
100	59.4		157.2	23,400	63.6	156.3	22,300	67.5	152.6	16,900	100
105	57.5		154.0	22,900	61.7	153.0	21,700	65.5	149.2	16,300	105
110	55.5		150.4	22,500	59.7	149.5	20,800	63.5	145.6	15,800	110
115	53.5		146.6	21,900	57.7	145.7	20,000	61.4	141.7	15,300	115
120	51.4		142.5	21,400	55.6	141.6	19,200	59.2	137.5	14,800	120
125	49.3		138.1	21,000	53.4	137.2	18,500	57.0	132.9	14,400	125
130	47.0		133.4	20,500	51.2	132.4	17,800	54.7	128.0	14,000	130
135	44.7		128.2	20,100	48.9	127.2	17,200	52.3	122.6	13,600	135
140	42.3		122.6	19,400	46.4	121.6	16,700	49.7	116.8	13,200	140
145	39.8		116.5	18,600	43.9	115.5	16,100	47.0	110.4	12,900	145
150	37.1		109.8	17,500	41.1	108.8	15,700	44.2	103.3	12,600	150
155	34.2		102.4	16,600	38.2	101.3	15,200				155
160	31.1		94.0	15,700	35.1	92.9	14,800				160
165	27.6		84.4	14,900	31.5	83.3	14,400				165
170	23.6		73.2	14,100							170

MLC165-1 S-2

ASME B30.5



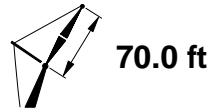
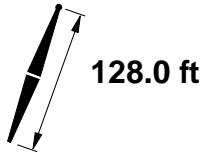
ft	5°			15°			25°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45	79.3	190.4	31,000							45
50	77.7	189.2	30,200							50
55	76.1	187.9	29,500							55
60	74.5	186.4	28,800	78.6	185.3	26,200				60
65	72.9	184.8	28,100	77.0	183.6	25,800				65
70	71.3	183.0	27,400	75.4	181.9	25,300	79.3	178.5	22,100	70
75	69.7	181.1	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	23,300	63.4	164.7	22,300	67.0	160.9	16,800	105
110	57.6	162.5	22,800	61.6	161.4	21,700	65.1	157.5	16,200	110
115	55.7	159.0	22,400	59.7	157.9	20,800	63.2	153.9	15,700	115
120	53.8	155.2	21,900	57.8	154.2	20,000	61.3	150.1	15,200	120
125	51.8	151.2	21,400	55.8	150.2	19,300	59.2	146.0	14,800	125
130	49.8	146.9	21,000	53.8	145.8	18,600	57.1	141.5	14,400	130
135	47.8	142.2	20,400	51.7	141.2	18,000	55.0	136.7	14,000	135
140	45.6	137.2	19,200	49.5	136.2	17,400	52.7	131.5	13,700	140
145	43.4	131.8	18,100	47.2	130.8	16,900	50.4	125.9	13,300	145
150	41.0	126.0	17,100	44.9	125.0	16,300	47.9	119.8	13,000	150
155	38.6	119.6	16,200	42.4	118.6	15,900	45.3	113.1	12,800	155
160	35.9	112.7	15,300	39.8	111.6	15,400	42.5	105.7	12,500	160
165	33.1	104.9	14,500	36.9	103.8	14,800				165
170	30.1	96.2	13,700	33.8	95.1	14,000				170
175	26.7	86.3	12,900	30.4	85.0	13,200				175
180	22.8	74.6	12,200							180

MLC165-1 S-2

ASME B30.5



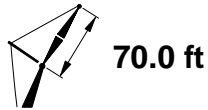
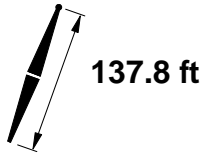
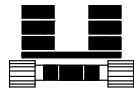
123,400 lb
+
45,100 lb



	5°			15°			25°				
	ft	°	ft	lb	ft	°	ft	lb	ft		
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	24,200	66.6	179.0	22,900	70.1	175.2	17,800	100
105	61.1		177.2	23,700	64.9	176.1	22,500	68.4	172.3	17,200	105
110	59.4		174.2	23,200	63.2	173.1	22,200	66.6	169.2	16,600	110
115	57.7		171.0	22,800	61.4	169.9	21,600	64.8	165.9	16,100	115
120	55.9		167.5	22,300	59.7	166.4	20,800	63.0	162.3	15,600	120
125	54.1		163.8	21,900	57.9	162.7	20,000	61.2	158.5	15,200	125
130	52.3		159.8	21,300	56.0	158.7	19,400	59.2	154.4	14,800	130
135	50.4		155.6	20,000	54.1	154.5	18,700	57.3	150.1	14,400	135
140	48.4		151.0	18,900	52.1	150.0	18,100	55.2	145.4	14,000	140
145	46.4		146.2	17,800	50.1	145.1	17,500	53.1	140.4	13,700	145
150	44.3		141.0	16,800	48.0	139.9	17,000	51.0	135.0	13,400	150
155	42.1		135.4	15,800	45.8	134.2	16,300	48.7	129.1	13,100	155
160	39.8		129.3	14,900	43.5	128.1	15,400	46.3	122.7	12,800	160
165	37.4		122.7	14,100	41.1	121.5	14,500	43.7	115.8	12,600	165
170	34.9		115.4	13,300	38.5	114.2	13,700				170
175	32.1		107.4	12,600	35.7	106.2	12,900				175
180	29.2		98.4	11,900	32.7	97.1	12,200				180
185	25.9		88.1	11,200							185
190	22.1		76.0	10,600							190

MLC165-1 S-2

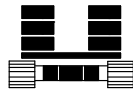
ASME B30.5



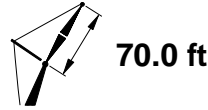
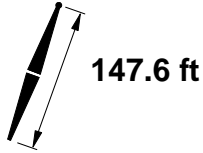
ft	5°			15°			25°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50	78.9	209.4	30,400							50
55	77.5	208.2	29,700							55
60	76.0	206.9	29,000							60
65	74.6	205.5	28,400	78.3	204.2	25,900				65
70	73.2	203.9	27,800	76.8	202.6	25,500				70
75	71.7	202.1	27,200	75.4	200.9	25,100	78.9	197.3	21,800	75
80	70.2	200.3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

MLC165-1 S-2

ASME B30.5



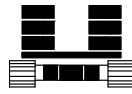
123,400 lb
+
45,100 lb



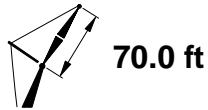
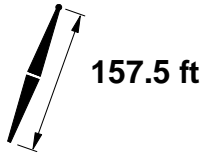
ft	5°			15°			25°			ft
	ft	lb	ft	ft	lb	ft	lb	ft		
50	79.4	219.5	30,400						50	
55	78.0	218.3	29,700						55	
60	76.7	217.1	29,100						60	
65	75.3	215.7	28,500	78.9	214.4	26,000			65	
70	73.9	214.2	27,900	77.5	212.9	25,500			70	
75	72.6	212.6	27,300	76.1	211.3	25,100	79.4	207.7	22,200	75
80	71.2	210.8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

MLC165-1 S-2

ASME B30.5



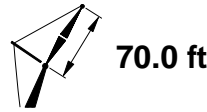
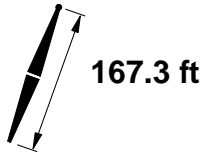
123,400 lb
+
45,100 lb



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	25,400	71.3	214.1	23,800	74.4	210.3	19,500	95
100	66.6	213.1	24,900	69.9	211.9	23,400	73.0	208.0	18,900	100
105	65.2	210.8	24,400	68.5	209.5	23,100	71.5	205.6	18,300	105
110	63.8	208.2	24,000	67.1	207.0	22,800	70.1	203.0	17,800	110
115	62.3	205.5	23,500	65.6	204.3	22,500	68.6	200.3	17,300	115
120	60.9	202.7	23,100	64.2	201.5	22,100	67.1	197.3	16,800	120
125	59.4	199.6	21,900	62.7	198.4	21,900	65.6	194.3	16,300	125
130	57.9	196.4	20,500	61.2	195.2	21,300	64.1	191.0	15,900	130
135	56.4	193.0	19,200	59.6	191.8	20,000	62.5	187.5	15,500	135
140	54.8	189.4	18,100	58.1	188.2	18,800	60.9	183.8	15,200	140
145	53.2	185.6	17,000	56.5	184.4	17,700	59.3	179.9	14,800	145
150	51.6	181.6	16,000	54.9	180.4	16,600	57.6	175.8	14,500	150
155	50.0	177.3	15,000	53.2	176.1	15,600	55.9	171.4	14,200	155
160	48.3	172.8	14,200	51.5	171.5	14,700	54.1	166.7	13,900	160
165	46.5	167.9	13,300	49.7	166.7	13,900	52.3	161.7	13,600	165
170	44.7	162.8	12,600	47.9	161.6	13,000	50.4	156.4	13,300	170
175	42.8	157.3	11,800	46.0	156.1	12,300	48.5	150.7	12,700	175
180	40.9	151.5	11,200	44.1	150.2	11,600	46.4	144.6	11,900	180
185	38.9	145.2	10,500	42.0	143.9	10,900	44.3	138.0	11,200	185
190	36.8	138.4	9,900	39.9	137.1	10,200	42.1	130.9	10,500	190
195	34.5	131.1	9,300	37.6	129.7	9,600				195
200	32.1	123.1	8,700	35.2	121.7	9,000				200
205	29.6	114.3	8,200	32.6	112.8	8,500				205
210	26.8	104.4	7,700							210
215	23.7	93.1	7,200							215
220	20.1	79.7	6,700							220

MLC165-1 S-2

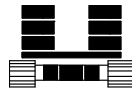
ASME B30.5



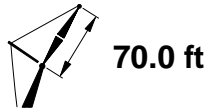
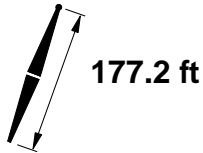
	5°			15°			25°			
	ft	°	ft	lb	ft	°	ft	lb	ft	
55	79.1		238.5	29,700						55
60	77.8		237.4	29,100						60
65	76.6		236.1	28,600						65
70	75.3		234.8	28,000	78.6		233.4	25,500		70
75	74.1		233.3	27,500	77.3		231.9	25,200		75
80	72.8		231.7	26,900	76.0		230.3	24,800	79.1	80
85	71.5		229.9	26,400	74.7		228.6	24,500	77.8	85
90	70.2		228.1	26,000	73.4		226.8	24,200	76.4	90
95	68.9		226.1	25,400	72.1		224.8	23,800	75.1	95
100	67.6		223.9	24,900	70.8		222.6	23,500	73.8	100
105	66.3		221.7	24,400	69.5		220.4	23,200	72.4	105
110	64.9		219.3	24,000	68.1		218.0	22,900	71.0	110
115	63.6		216.7	23,600	66.8		215.4	22,600	69.6	115
120	62.2		214.0	23,000	65.4		212.8	22,300	68.2	120
125	60.8		211.1	21,500	64.0		209.9	22,000	66.8	125
130	59.4		208.1	20,100	62.5		206.9	21,000	65.3	130
135	58.0		204.9	18,900	61.1		203.7	19,700	63.9	135
140	56.5		201.5	17,700	59.6		200.3	18,500	62.4	140
145	55.0		198.0	16,600	58.1		196.7	17,300	60.8	145
150	53.5		194.2	15,600	56.6		193.0	16,300	59.3	150
155	52.0		190.2	14,700	55.1		189.0	15,300	57.7	155
160	50.4		186.0	13,800	53.5		184.8	14,400	56.1	160
165	48.8		181.5	13,000	51.8		180.3	13,500	54.4	165
170	47.1		176.8	12,200	50.2		175.6	12,700	52.7	170
175	45.4		171.8	11,500	48.5		170.5	12,000	50.9	175
180	43.6		166.5	10,800	46.7		165.2	11,300	49.0	180
185	41.8		160.8	10,200	44.8		159.5	10,600	47.1	185
190	39.9		154.8	9,500	42.9		153.5	9,900	45.1	190
195	37.9		148.3	9,000	40.9		146.9	9,300	43.1	195
200	35.9		141.3	8,400	38.8		139.9	8,700		200
205	33.7		133.8	7,900	36.6		132.3	8,200		205
210	31.4		125.5	7,400	34.3		124.0	7,600		210
215	28.8		116.4	6,900	31.7		114.8	7,100		215
220	26.1		106.2	6,400						220
225	23.1		94.6	6,000						225
230	19.5		80.9	5,600						230

MLC165-1 S-2

ASME B30.5



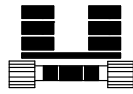
123,400 lb
+
45,100 lb



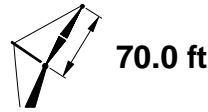
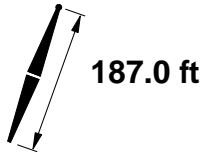
ft	5°			15°			25°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55	79.5	248.6	29,400							55
60	78.3	247.5	28,900							60
65	77.1	246.3	28,400							65
70	75.9	245.0	27,900	79.0	243.6	25,500				70
75	74.7	243.5	27,400	77.8	242.2	25,200				75
80	73.5	242.0	26,900	76.6	240.7	24,900	79.5	236.8	22,200	80
85	72.3	240.3	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	25,300	72.9	235.3	23,900	75.8	231.4	20,100	95
100	68.6	234.6	24,900	71.6	233.3	23,600	74.5	229.4	19,500	100
105	67.3	232.5	24,300	70.3	231.2	23,300	73.2	227.2	19,000	105
110	66.0	230.2	23,900	69.1	228.9	23,000	71.9	224.8	18,400	110
115	64.7	227.8	23,400	67.8	226.5	22,700	70.6	222.4	17,900	115
120	63.4	225.2	22,600	66.5	223.9	22,400	69.2	219.8	17,500	120
125	62.1	222.5	21,100	65.1	221.2	22,100	67.9	217.0	17,000	125
130	60.8	219.6	19,700	63.8	218.3	20,600	66.5	214.1	16,600	130
135	59.4	216.6	18,500	62.4	215.3	19,300	65.1	211.0	16,200	135
140	58.0	213.4	17,300	61.0	212.1	18,100	63.7	207.8	15,800	140
145	56.6	210.0	16,200	59.6	208.8	17,000	62.2	204.3	15,500	145
150	55.2	206.5	15,200	58.2	205.2	15,900	60.8	200.7	15,100	150
155	53.8	202.8	14,300	56.7	201.5	15,000	59.3	196.9	14,800	155
160	52.3	198.8	13,400	55.3	197.6	14,000	57.8	192.8	14,500	160
165	50.8	194.7	12,600	53.7	193.4	13,200	56.2	188.6	13,700	165
170	49.2	190.3	11,800	52.2	189.0	12,400	54.6	184.1	12,900	170
175	47.7	185.7	11,100	50.6	184.4	11,600	53.0	179.3	12,100	175
180	46.0	180.8	10,400	49.0	179.5	10,900	51.3	174.2	11,300	180
185	44.4	175.6	9,700	47.3	174.3	10,200	49.6	168.9	10,600	185
190	42.6	170.1	9,100	45.5	168.7	9,600	47.8	163.2	9,900	190
195	40.9	164.2	8,500	43.7	162.9	9,000	45.9	157.1	9,300	195
200	39.0	158.0	8,000	41.9	156.6	8,400	43.9	150.5	8,700	200
205	37.1	151.3	7,500	39.9	149.9	7,800	41.9	143.5	8,100	205
210	35.0	144.1	7,000	37.9	142.7	7,300				210
215	32.9	136.3	6,500	35.7	134.8	6,800				215
220	30.6	127.8	6,000	33.4	126.3	6,300				220
225	28.1	118.5	5,600	30.9	116.8	5,800				225
230	25.5	108.0	5,200							230
235	22.5	96.1	4,800							235

MLC165-1 S-2

ASME B30.5



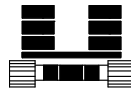
123,400 lb
+
45,100 lb



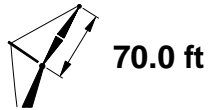
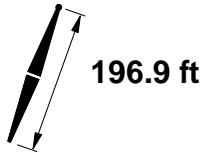
	5°			15°			25°				
	ft	°	ft	lb	ft	°	ft	lb	ft		
60	78.8		257.6	28,600						60	
65	77.6		256.4	28,100						65	
70	76.5		255.2	27,600	79.5	253.8	25,400			70	
75	75.3		253.8	27,100	78.3	252.4	25,200			75	
80	74.1		252.3	26,600	77.1	250.9	24,800			80	
85	73.0		250.7	26,100	76.0	249.4	24,500	78.8	245.4	21,800	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	25,300	73.6	245.8	23,900	76.3	241.9	20,400	95
100	69.4		245.3	24,700	72.4	243.9	23,600	75.1	239.9	19,800	100
105	68.2		243.2	24,200	71.2	241.9	23,300	73.9	237.8	19,300	105
110	67.0		241.0	23,800	69.9	239.7	23,100	72.6	235.6	18,700	110
115	65.8		238.7	23,500	68.7	237.4	22,800	71.4	233.3	18,200	115
120	64.5		236.3	22,300	67.4	234.9	22,600	70.1	230.8	17,800	120
125	63.3		233.7	20,800	66.2	232.4	21,800	68.8	228.2	17,300	125
130	62.0		231.0	19,400	64.9	229.7	20,400	67.5	225.4	16,900	130
135	60.7		228.1	18,200	63.6	226.8	19,100	66.2	222.5	16,500	135
140	59.4		225.1	17,000	62.3	223.8	17,900	64.9	219.4	16,100	140
145	58.1		221.9	15,900	61.0	220.6	16,700	63.5	216.2	15,800	145
150	56.7		218.5	14,900	59.6	217.2	15,700	62.1	212.7	15,400	150
155	55.4		215.0	14,000	58.3	213.7	14,700	60.7	209.1	15,100	155
160	54.0		211.3	13,100	56.9	210.0	13,800	59.3	205.4	14,400	160
165	52.6		207.4	12,300	55.4	206.1	12,900	57.8	201.4	13,500	165
170	51.1		203.3	11,500	54.0	202.0	12,100	56.4	197.2	12,600	170
175	49.7		199.0	10,800	52.5	197.7	11,300	54.8	192.7	11,800	175
180	48.2		194.5	10,100	51.0	193.2	10,600	53.3	188.0	11,100	180
185	46.6		189.7	9,400	49.4	188.3	9,900	51.7	183.1	10,400	185
190	45.0		184.6	8,800	47.8	183.3	9,300	50.0	177.9	9,700	190
195	43.4		179.3	8,200	46.2	177.9	8,700	48.3	172.3	9,100	195
200	41.7		173.6	7,700	44.5	172.2	8,100	46.6	166.4	8,400	200
205	40.0		167.5	7,200	42.7	166.1	7,600	44.7	160.1	7,900	205
210	38.1		161.1	6,700	40.9	159.7	7,000	42.8	153.4	7,300	210
215	36.2		154.2	6,200	39.0	152.7	6,500				215
220	34.3		146.8	5,700	37.0	145.3	6,000				220
225	32.1		138.8	5,300	34.8	137.2	5,600				225
230	29.9		130.1	4,900	32.6	128.4	5,100				230
235	27.5		120.5	4,400	30.1	118.7	4,700				235

MLC165-1 S-2

ASME B30.5



123,400 lb
+
45,100 lb



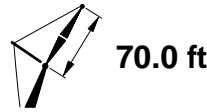
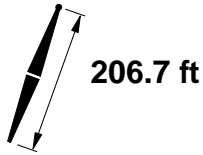
ft	5°			15°			25°			ft
	ft	lb	ft	ft	lb	ft	lb	ft		
60	79.2	267.6	28,100						60	
65	78.1	266.5	27,700						65	
70	77.0	265.3	27,300						70	
75	75.9	264.0	26,800	78.7	262.6	25,100			75	
80	74.8	262.6	26,400	77.6	261.2	24,700			80	
85	73.6	261.1	25,900	76.5	259.7	24,500	79.2	255.7	22,000	85
90	72.5	259.4	25,500	75.4	258.0	24,200	78.0	254.1	21,400	90
95	71.4	257.7	25,100	74.2	256.3	23,900	76.9	252.3	20,700	95
100	70.2	255.8	24,600	73.1	254.5	23,600	75.7	250.4	20,100	100
105	69.1	253.9	24,100	71.9	252.5	23,400	74.5	248.4	19,600	105
110	67.9	251.8	23,700	70.7	250.4	23,000	73.3	246.3	19,000	110
115	66.7	249.6	23,400	69.5	248.2	22,900	72.1	244.1	18,500	115
120	65.5	247.2	21,900	68.4	245.9	22,600	70.9	241.7	18,100	120
125	64.3	244.8	20,400	67.2	243.4	21,500	69.7	239.2	17,600	125
130	63.1	242.2	19,000	65.9	240.8	20,000	68.5	236.6	17,200	130
135	61.9	239.4	17,800	64.7	238.1	18,700	67.2	233.8	16,800	135
140	60.7	236.6	16,600	63.5	235.2	17,500	65.9	230.9	16,400	140
145	59.4	233.6	15,500	62.2	232.2	16,400	64.7	227.8	16,100	145
150	58.1	230.4	14,500	60.9	229.1	15,300	63.4	224.6	15,700	150
155	56.9	227.1	13,600	59.6	225.7	14,300	62.0	221.2	15,000	155
160	55.5	223.6	12,700	58.3	222.2	13,400	60.7	217.6	14,100	160
165	54.2	219.9	11,900	57.0	218.6	12,600	59.3	213.8	13,200	165
170	52.9	216.0	11,100	55.6	214.7	11,700	57.9	209.9	12,300	170
175	51.5	212.0	10,400	54.2	210.6	11,000	56.5	205.7	11,500	175
180	50.1	207.7	9,700	52.8	206.4	10,300	55.0	201.4	10,800	180
185	48.6	203.3	9,000	51.3	201.9	9,600	53.5	196.8	10,000	185
190	47.1	198.5	8,400	49.8	197.2	8,900	52.0	191.9	9,400	190
195	45.6	193.6	7,800	48.3	192.2	8,300	50.4	186.8	8,700	195
200	44.1	188.4	7,300	46.8	187.0	7,700	48.8	181.4	8,100	200
205	42.5	182.8	6,800	45.1	181.4	7,200	47.2	175.7	7,500	205
210	40.8	177.0	6,300	43.5	175.5	6,700	45.4	169.6	7,000	210
215	39.1	170.8	5,800	41.8	169.3	6,200	43.6	163.1	6,400	215
220	37.3	164.1	5,300	40.0	162.7	5,700	41.8	156.2	5,900	220
225	35.5	157.1	4,800	38.1	155.5	5,200				225
230	33.5	149.5	4,300	36.1	147.9	4,700				230
235				34.0	139.6	4,200				235

MLC165-1 S-2

ASME B30.5



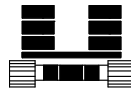
123,400 lb
+
45,100 lb



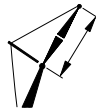
	5°			15°			25°			
	ft	°	ft	lb	ft	°	ft	lb	ft	
60	79.6		277.7	27,700						60
65	78.5		276.6	27,300						65
70	77.5		275.5	26,900						70
75	76.4		274.2	26,500	79.2		272.8	25,000		75
80	75.3		272.8	26,100	78.1		271.4	24,700		80
85	74.2		271.4	25,600	77.0		269.9	24,400	79.6	85
90	73.1		269.8	25,200	75.9		268.4	24,100	78.5	90
95	72.1		268.1	24,800	74.8		266.7	23,800	77.4	95
100	71.0		266.3	24,400	73.7		264.9	23,600	76.3	100
105	69.8		264.5	24,000	72.6		263.1	23,300	75.1	105
110	68.7		262.4	23,700	71.5		261.1	23,100	74.0	110
115	67.6		260.3	23,100	70.3		258.9	22,800	72.8	115
120	66.5		258.1	21,500	69.2		256.7	22,600	71.7	120
125	65.3		255.7	20,100	68.0		254.4	21,200	70.5	125
130	64.2		253.3	18,700	66.9		251.9	19,700	69.3	130
135	63.0		250.7	17,400	65.7		249.3	18,400	68.1	135
140	61.8		247.9	16,200	64.5		246.6	17,200	66.9	140
145	60.6		245.0	15,200	63.3		243.7	16,100	65.7	145
150	59.4		242.0	14,100	62.1		240.7	15,000	64.5	150
155	58.2		238.9	13,200	60.9		237.5	14,000	63.2	155
160	56.9		235.6	12,300	59.6		234.2	13,100	61.9	160
165	55.7		232.1	11,500	58.3		230.7	12,200	60.6	165
170	54.4		228.4	10,700	57.1		227.1	11,400	59.3	170
175	53.1		224.6	10,000	55.7		223.3	10,700	58.0	175
180	51.8		220.6	9,300	54.4		219.3	9,900	56.6	180
185	50.4		216.4	8,700	53.0		215.1	9,300	55.2	185
190	49.0		212.0	8,100	51.7		210.6	8,600	53.8	190
195	47.6		207.4	7,500	50.2		206.0	8,000	52.3	195
200	46.2		202.5	6,900	48.8		201.1	7,400	50.8	200
205	44.7		197.4	6,400	47.3		196.0	6,900	49.3	205
210	43.2		192.0	5,900	45.8		190.6	6,300	47.7	210
215	41.6		186.3	5,400	44.2		184.9	5,800	46.1	215
220	40.0		180.3	4,800	42.5		178.8	5,300	44.4	220
225	38.3		173.9	4,300	40.8		172.4	4,800	42.6	225
230					39.1		165.6	4,200		230

MLC165-1 S-2

ASME B30.5



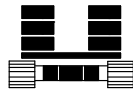
123,400 lb
+
45,100 lb



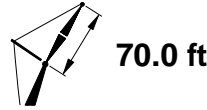
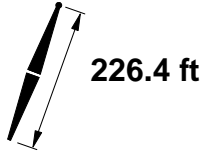
ft	5°			15°			25°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
65	78.9	286.7	26,800							65
70	77.9	285.6	26,400							70
75	76.9	284.4	26,000	79.5	282.9	24,800				75
80	75.8	283.0	25,600	78.5	281.6	24,500				80
85	74.8	281.6	25,300	77.5	280.2	24,200				85
90	73.7	280.1	24,900	76.4	278.7	24,000	78.9	274.6	21,900	90
95	72.7	278.5	24,500	75.4	277.1	23,700	77.9	273.0	21,200	95
100	71.6	276.8	24,100	74.3	275.4	23,500	76.8	271.3	20,700	100
105	70.6	275.0	23,700	73.2	273.6	23,200	75.7	269.5	20,100	105
110	69.5	273.1	23,400	72.1	271.6	23,000	74.6	267.5	19,600	110
115	68.4	271.0	22,800	71.1	269.6	22,800	73.5	265.4	19,100	115
120	67.3	268.9	21,200	70.0	267.5	22,400	72.4	263.3	18,600	120
125	66.2	266.6	19,700	68.9	265.2	20,800	71.3	261.0	18,200	125
130	65.1	264.3	18,300	67.7	262.9	19,400	70.1	258.6	17,800	130
135	64.0	261.8	17,000	66.6	260.4	18,100	69.0	256.0	17,400	135
140	62.9	259.1	15,800	65.5	257.8	16,800	67.8	253.4	17,000	140
145	61.7	256.4	14,800	64.3	255.0	15,700	66.7	250.6	16,600	145
150	60.6	253.5	13,700	63.2	252.1	14,600	65.5	247.7	15,500	150
155	59.4	250.5	12,800	62.0	249.1	13,700	64.3	244.6	14,400	155
160	58.2	247.4	11,900	60.8	246.0	12,700	63.1	241.4	13,500	160
165	57.0	244.1	11,100	59.6	242.7	11,900	61.8	238.0	12,600	165
170	55.8	240.6	10,300	58.4	239.2	11,100	60.6	234.5	11,700	170
175	54.6	237.0	9,600	57.1	235.6	10,300	59.3	230.8	10,900	175
180	53.3	233.2	8,900	55.9	231.8	9,600	58.0	226.9	10,200	180
185	52.1	229.2	8,300	54.6	227.9	8,900	56.7	222.9	9,400	185
190	50.8	225.1	7,700	53.3	223.7	8,200	55.4	218.6	8,800	190
195	49.4	220.7	7,100	52.0	219.3	7,600	54.0	214.2	8,100	195
200	48.1	216.2	6,500	50.6	214.8	7,100	52.6	209.5	7,500	200
205	46.7	211.4	5,900	49.2	210.0	6,500	51.2	204.6	6,900	205
210	45.3	206.4	5,400	47.8	205.0	6,000	49.7	199.4	6,400	210
215	43.8	201.1	4,800	46.3	199.7	5,400	48.2	194.0	5,800	215
220	42.3	195.6	4,300	44.8	194.1	4,800	46.7	188.2	5,200	220
225				43.3	188.2	4,200	45.1	182.1	4,600	225
230							43.4	175.7	4,100	230

MLC165-1 S-2

ASME B30.5



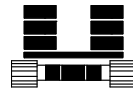
123,400 lb
+
45,100 lb



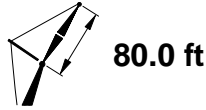
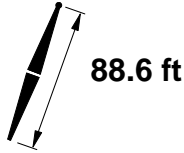
	5°			15°			25°				
	ft	°	ft	lb	ft	°	ft	lb	ft		
65	79.3		296.8	26,100						65	
70	78.3		295.7	25,800						70	
75	77.3		294.5	25,500						75	
80	76.3		293.2	25,200	78.9	291.7	24,300			80	
85	75.3		291.9	24,800	77.9	290.4	24,100			85	
90	74.3		290.4	24,500	76.9	288.9	23,800	79.3	284.9	22,100	90
95	73.3		288.9	24,100	75.9	287.4	23,600	78.3	283.3	21,500	95
100	72.3		287.2	23,700	74.8	285.8	23,400	77.2	281.7	20,900	100
105	71.2		285.5	23,400	73.8	284.0	23,100	76.2	279.9	20,400	105
110	70.2		283.6	23,100	72.8	282.2	22,900	75.1	278.0	19,900	110
115	69.2		281.7	22,500	71.7	280.2	22,700	74.1	276.0	19,400	115
120	68.1		279.6	20,800	70.7	278.2	22,100	73.0	274.0	18,900	120
125	67.1		277.4	19,300	69.6	276.0	20,600	71.9	271.8	18,500	125
130	66.0		275.2	18,000	68.5	273.7	19,100	70.9	269.4	18,000	130
135	64.9		272.8	16,700	67.5	271.4	17,800	69.8	267.0	17,600	135
140	63.9		270.3	15,500	66.4	268.8	16,600	68.7	264.5	17,300	140
145	62.8		267.6	14,400	65.3	266.2	15,400	67.5	261.8	16,300	145
150	61.7		264.9	13,400	64.2	263.5	14,400	66.4	259.0	15,200	150
155	60.6		262.0	12,500	63.1	260.6	13,400	65.3	256.1	14,200	155
160	59.4		259.0	11,600	61.9	257.6	12,500	64.1	253.0	13,200	160
165	58.3		255.8	10,800	60.8	254.4	11,600	62.9	249.8	12,300	165
170	57.1		252.5	10,000	59.6	251.2	10,800	61.8	246.5	11,500	170
175	55.9		249.1	9,300	58.4	247.7	10,000	60.5	242.9	10,700	175
180	54.8		245.5	8,600	57.2	244.1	9,300	59.3	239.3	9,900	180
185	53.5		241.8	8,000	56.0	240.4	8,600	58.1	235.4	9,200	185
190	52.3		237.8	7,300	54.8	236.4	8,000	56.8	231.4	8,500	190
195	51.1		233.7	6,800	53.5	232.3	7,400	55.5	227.2	7,900	195
200	49.8		229.5	6,100	52.2	228.0	6,800	54.2	222.8	7,300	200
205	48.5		225.0	5,500	50.9	223.5	6,200	52.9	218.2	6,700	205
210	47.2		220.3	4,900	49.6	218.8	5,600	51.5	213.4	6,100	210
215	45.8		215.4	4,400	48.2	213.9	5,000	50.1	208.3	5,500	215
220					46.8	208.7	4,400	48.7	203.0	4,900	220
225								47.2	197.4	4,300	225

MLC165-1 S-2

ASME B30.5



123,400 lb
+
45,100 lb



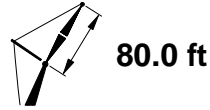
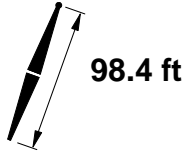
ft	5°			15°			25°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
40	79.6	171.7	24,000							40
45	77.9	170.6	23,400							45
50	76.1	169.3	22,900							50
55	74.4	167.9	22,300	79.3	166.7	22,400				55
60	72.6	166.3	21,800	77.5	165.1	22,100				60
65	70.8	164.5	21,300	75.7	163.3	21,500				65
70	69.0	162.5	20,800	73.8	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	15,200	43.1	106.6	13,600	47.2	101.7	10,800	140
145	35.6	101.5	14,900	40.1	99.4	13,100	44.0	94.2	10,500	145
150	32.5	93.7	14,500	36.9	91.4	12,700	40.6	85.6	10,300	150
155	29.0	84.7	14,200	33.3	82.3	12,300				155
160	25.1	74.3	13,700	29.2	71.5	11,900				160
165	20.4	61.5	13,200							165

MLC165-1 S-2

ASME B30.5



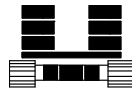
123,400 lb
+
45,100 lb



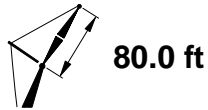
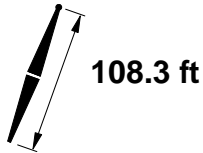
	5°			15°			25°					
	ft	°	ft	lb	ft	°	ft	lb	ft			
45	78.6		180.7	23,400						45		
50	76.9		179.5	22,900						50		
55	75.3		178.1	22,300						55		
60	73.6		176.6	21,800	78.2		175.4	21,900		60		
65	71.9		174.9	21,300	76.5		173.7	21,500		65		
70	70.2		173.1	20,900	74.8		171.8	21,100	79.6	168.6	19,500	70
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	16,100	49.2		127.8	14,800	53.3	123.3	11,600	135
140	42.5		124.0	15,700	46.8		122.2	14,300	50.8	117.5	11,200	140
145	40.0		118.0	15,300	44.2		116.1	13,800	48.1	111.2	10,900	145
150	37.3		111.5	15,000	41.5		109.4	13,300	45.3	104.2	10,600	150
155	34.5		104.2	14,700	38.6		102.0	12,900	42.2	96.3	10,400	155
160	31.4		96.1	14,400	35.5		93.7	12,500				160
165	28.0		86.8	14,100	32.0		84.1	12,100				165
170	24.2		76.0	13,600								170
175	19.6		62.6	13,100								175

MLC165-1 S-2

ASME B30.5



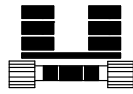
123,400 lb
+
45,100 lb



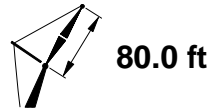
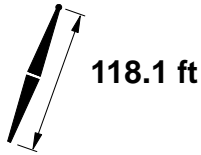
ft	5°			15°			25°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
45	79.2	190.8	23,300							45
50	77.6	189.6	22,800							50
55	76.1	188.4	22,300							55
60	74.5	186.9	21,800	78.9	185.6	21,900				60
65	72.9	185.3	21,300	77.3	184.0	21,500				65
70	71.3	183.6	20,900	75.6	182.3	21,100				70
75	69.6	181.7	20,400	74.0	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	16,500	54.1	146.3	16,100	58.1	142.1	12,300	130
135	47.8	143.4	16,100	52.0	141.7	15,500	55.9	137.3	12,000	135
140	45.7	138.5	15,900	49.8	136.7	14,900	53.7	132.2	11,600	140
145	43.5	133.2	15,800	47.6	131.4	14,400	51.4	126.6	11,300	145
150	41.2	127.5	15,400	45.2	125.5	13,900	48.9	120.5	11,000	150
155	38.7	121.2	15,200	42.7	119.2	13,500	46.3	113.9	10,700	155
160	36.2	114.4	14,800	40.1	112.2	13,100	43.6	106.5	10,500	160
165	33.4	106.8	14,500	37.3	104.5	12,700	40.6	98.3	10,300	165
170	30.4	98.4	14,200	34.2	95.8	12,400				170
175	27.1	88.8	13,500	30.8	85.9	12,000				175
180	23.4	77.5	12,800							180
185	18.9	63.7	12,100							185

MLC165-1 S-2

ASME B30.5



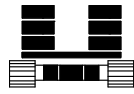
123,400 lb
+
45,100 lb



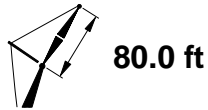
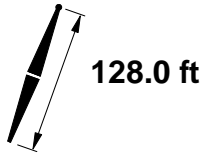
	5°			15°			25°			
	ft	°	ft	lb	ft	°	ft	lb	ft	
50	78.3		199.8	22,800						50
55	76.8		198.5	22,300						55
60	75.3		197.2	21,800	79.4		195.8	22,000		60
65	73.8		195.7	21,300	77.9		194.3	21,500		65
70	72.2		194.0	20,900	76.4		192.7	21,100		70
75	70.7		192.2	20,400	74.8		190.9	20,700	79.1	75
80	69.1		190.3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

MLC165-1 S-2

ASME B30.5



123,400 lb
+
45,100 lb



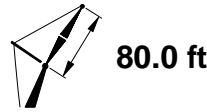
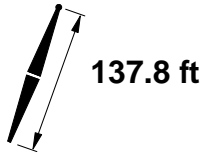
ft	5°			15°			25°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
50	78.8	209.8	22,700							50
55	77.4	208.7	22,300							55
60	76.0	207.4	21,800							60
65	74.6	206.0	21,300	78.5	204.6	21,500				65
70	73.1	204.4	20,900	77.1	203.0	21,100				70
75	71.7	202.7	20,400	75.6	201.3	20,700	79.7	197.7	19,500	75
80	70.2	200.9	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	16,700	59.9	175.3	17,400	63.7	171.2	13,500	125
130	54.4	173.3	16,600	58.2	171.7	17,100	61.9	167.4	13,100	130
135	52.7	169.5	16,300	56.4	167.8	16,800	60.1	163.4	12,700	135
140	50.9	165.3	16,000	54.6	163.6	16,200	58.3	159.2	12,400	140
145	49.1	161.0	15,700	52.8	159.2	15,700	56.3	154.6	12,000	145
150	47.2	156.3	15,400	50.9	154.5	15,200	54.4	149.7	11,700	150
155	45.2	151.3	15,200	48.9	149.4	14,700	52.3	144.5	11,400	155
160	43.2	146.0	15,000	46.9	144.0	14,300	50.2	138.9	11,200	160
165	41.1	140.2	14,200	44.7	138.1	13,900	48.0	132.8	10,900	165
170	38.9	134.0	13,500	42.5	131.8	13,500	45.7	126.2	10,700	170
175	36.6	127.3	12,700	40.1	125.0	13,100	43.2	119.0	10,500	175
180	34.1	119.9	12,000	37.6	117.5	12,400	40.5	111.1	10,300	180
185	31.5	111.8	11,400	35.0	109.2	11,700				185
190	28.7	102.8	10,800	32.0	99.9	11,000				190
195	25.5	92.5	10,200	28.8	89.2	10,400				195
200	21.9	80.4	9,600							200

MLC165-1 S-2

ASME B30.5



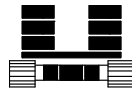
123,400 lb
+
45,100 lb



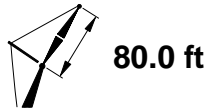
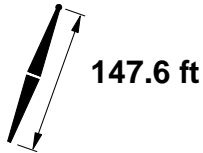
	5°			15°			25°					
	ft	°	ft	lb	ft	°	ft	lb	ft			
50	79.3		219.9	22,600						50		
55	78.0		218.8	22,200						55		
60	76.6		217.6	21,700						60		
65	75.3		216.2	21,300	79.1		214.8	21,500		65		
70	73.9		214.7	20,800	77.7		213.3	21,100		70		
75	72.5		213.1	20,400	76.3		211.7	20,800		75		
80	71.1		211.4	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	16,900	61.5		187.2	17,600	65.1	183.0	13,800	125
130	56.3		185.4	16,600	59.9		183.8	17,400	63.5	179.6	13,400	130
135	54.6		181.9	16,200	58.3		180.2	17,100	61.8	175.8	13,100	135
140	53.0		178.0	16,000	56.6		176.3	16,800	60.1	171.9	12,700	140
145	51.3		174.0	15,700	54.9		172.2	16,300	58.3	167.7	12,400	145
150	49.6		169.7	15,400	53.1		167.9	15,800	56.5	163.2	12,100	150
155	47.8		165.1	15,300	51.3		163.3	15,300	54.7	158.5	11,800	155
160	45.9		160.3	14,600	49.5		158.3	14,800	52.7	153.4	11,500	160
165	44.0		155.1	13,800	47.5		153.1	14,300	50.7	147.9	11,200	165
170	42.1		149.5	13,000	45.6		147.4	13,500	48.7	142.1	11,000	170
175	40.0		143.5	12,300	43.5		141.4	12,700	46.5	135.8	10,800	175
180	37.9		137.1	11,600	41.3		134.8	12,000	44.2	128.9	10,600	180
185	35.6		130.1	11,000	39.0		127.7	11,300	41.8	121.4	10,400	185
190	33.2		122.5	10,300	36.5		120.0	10,700				190
195	30.7		114.2	9,800	33.9		111.4	10,100				195
200	27.9		104.8	9,200	31.0		101.8	9,500				200
205	24.8		94.2	8,700								205
210	21.3		81.8	8,100								210

MLC165-1 S-2

ASME B30.5



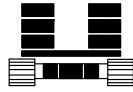
123,400 lb
+
45,100 lb



ft	5°			15°			25°			ft
	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	16,900	62.9	198.8	17,800	66.4	194.7	14,200	125
130	57.9	197.3	16,500	61.4	195.6	17,500	64.8	191.4	13,800	130
135	56.4	193.9	16,300	59.9	192.3	17,200	63.3	187.9	13,400	135
140	54.9	190.4	16,000	58.3	188.7	17,000	61.7	184.3	13,000	140
145	53.3	186.6	15,800	56.7	184.9	16,700	60.0	180.4	12,700	145
150	51.7	182.6	15,600	55.1	180.8	16,400	58.4	176.2	12,400	150
155	50.0	178.4	15,200	53.4	176.6	15,900	56.7	171.8	12,100	155
160	48.3	173.9	14,600	51.7	172.0	15,200	54.9	167.2	11,800	160
165	46.6	169.2	13,800	50.0	167.2	14,400	53.1	162.2	11,500	165
170	44.8	164.1	13,100	48.2	162.1	13,600	51.2	156.9	11,300	170
175	43.0	158.7	12,300	46.3	156.6	12,800	49.3	151.2	11,100	175
180	41.0	152.9	11,600	44.3	150.8	12,100	47.2	145.2	10,800	180
185	39.0	146.8	11,000	42.3	144.5	11,400	45.1	138.6	10,600	185
190	36.9	140.1	10,400	40.2	137.7	10,800	42.9	131.5	10,400	190
195	34.7	132.9	9,800	37.9	130.4	10,100	40.5	123.8	10,300	195
200	32.4	125.1	9,200	35.5	122.4	9,600				200
205	29.9	116.4	8,700	33.0	113.5	9,000				205
210	27.2	106.8	8,200	30.1	103.6	8,500				210
215	24.1	95.9	7,700							215
220	20.7	83.1	7,300							220

MLC165-1 S-2

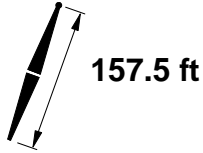
ASME B30.5



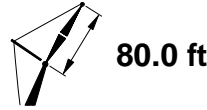
123,400 lb
+
45,100 lb



360°



157.5 ft

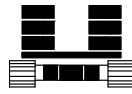


80.0 ft

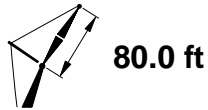
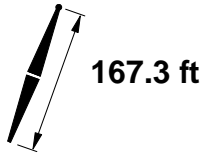
	5°			15°			25°			
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55	79.0	239.0	21,900							55
60	77.8	237.8	21,500							60
65	76.5	236.6	21,200							65
70	75.3	235.3	20,800	78.7	233.8	21,000				70
75	74.0	233.8	20,300	77.5	232.3	20,700				75
80	72.8	232.2	19,900	76.2	230.7	20,300				80
85	71.5	230.5	19,600	74.9	229.0	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	17,200	65.6	213.2	17,900	68.9	209.0	14,900	120
125	60.8	211.9	16,900	64.2	210.3	17,800	67.5	206.1	14,500	125
130	59.4	209.0	16,500	62.8	207.3	17,500	66.1	203.0	14,100	130
135	58.0	205.8	16,400	61.3	204.1	17,300	64.6	199.8	13,700	135
140	56.5	202.5	16,000	59.9	200.7	17,100	63.1	196.3	13,300	140
145	55.1	198.9	15,800	58.4	197.2	16,900	61.6	192.7	13,000	145
150	53.6	195.2	15,600	56.9	193.4	16,700	60.0	188.8	12,700	150
155	52.0	191.3	15,100	55.3	189.4	15,800	58.4	184.7	12,400	155
160	50.5	187.1	14,200	53.7	185.2	14,900	56.8	180.4	12,100	160
165	48.8	182.7	13,400	52.1	180.8	14,000	55.1	175.8	11,800	165
170	47.2	178.0	12,600	50.4	176.1	13,200	53.4	171.0	11,600	170
175	45.5	173.1	11,900	48.7	171.1	12,400	51.6	165.8	11,300	175
180	43.7	167.8	11,200	46.9	165.7	11,700	49.8	160.3	11,100	180
185	41.9	162.2	10,600	45.1	160.1	11,000	47.9	154.5	10,900	185
190	40.1	156.3	10,000	43.2	154.0	10,400	45.9	148.2	10,700	190
195	38.1	149.9	9,400	41.2	147.5	9,800	43.8	141.4	10,100	195
200	36.1	143.0	8,800	39.1	140.5	9,200	41.7	134.1	9,500	200
205	33.9	135.6	8,300	36.9	133.0	8,600				205
210	31.6	127.5	7,800	34.6	124.7	8,100				210
215	29.1	118.6	7,300	32.0	115.6	7,600				215
220	26.5	108.7	6,900	29.3	105.4	7,100				220
225	23.5	97.5	6,400							225
230	20.1	84.3	6,000							230

MLC165-1 S-2

ASME B30.5



123,400 lb
+
45,100 lb



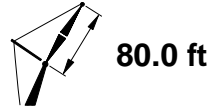
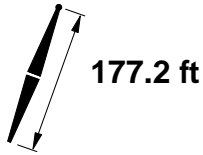
ft	5°			15°			25°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
55	79.4	249.0	21,800							55
60	78.3	247.9	21,400							60
65	77.1	246.8	21,100							65
70	75.9	245.5	20,700	79.2	244.0	20,900				70
75	74.7	244.1	20,300	78.0	242.5	20,600				75
80	73.5	242.5	19,900	76.8	241.0	20,300				80
85	72.2	240.9	19,500	75.5	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	17,200	66.7	224.3	18,000	69.9	220.1	15,200	120
125	62.1	223.3	16,900	65.3	221.6	17,700	68.5	217.4	14,800	125
130	60.8	220.4	16,700	64.0	218.7	17,600	67.2	214.5	14,400	130
135	59.4	217.4	16,300	62.6	215.7	17,400	65.8	211.4	14,000	135
140	58.0	214.3	16,100	61.2	212.6	17,100	64.4	208.1	13,700	140
145	56.7	211.0	15,800	59.8	209.2	16,900	62.9	204.7	13,300	145
150	55.2	207.5	15,600	58.4	205.7	16,400	61.5	201.1	13,000	150
155	53.8	203.8	14,700	57.0	201.9	15,500	60.0	197.3	12,700	155
160	52.3	199.9	13,900	55.5	198.0	14,500	58.5	193.2	12,400	160
165	50.8	195.8	13,000	54.0	193.9	13,700	56.9	189.0	12,100	165
170	49.3	191.4	12,300	52.4	189.5	12,900	55.3	184.5	11,900	170
175	47.7	186.9	11,500	50.8	184.9	12,100	53.7	179.7	11,600	175
180	46.1	182.0	10,900	49.2	180.0	11,400	52.0	174.7	11,400	180
185	44.5	176.9	10,200	47.5	174.8	10,700	50.3	169.3	11,200	185
190	42.8	171.5	9,600	45.8	169.3	10,100	48.5	163.7	10,500	190
195	41.0	165.7	9,000	44.0	163.4	9,500	46.6	157.6	9,800	195
200	39.1	159.5	8,500	42.1	157.2	8,900	44.7	151.1	9,200	200
205	37.2	152.9	8,000	40.2	150.5	8,300	42.7	144.1	8,600	205
210	35.2	145.9	7,500	38.1	143.3	7,800	40.5	136.5	8,100	210
215	33.1	138.2	7,000	36.0	135.5	7,300				215
220	30.9	129.9	6,500	33.7	127.0	6,800				220
225	28.4	120.8	6,100	31.2	117.6	6,300				225
230	25.8	110.6	5,700							230
235	22.9	99.0	5,300							235
240	19.5	85.5	4,900							240

MLC165-1 S-2

ASME B30.5



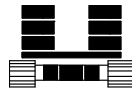
123,400 lb
+
45,100 lb



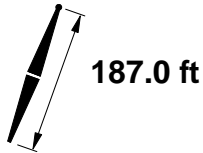
ft	5°			15°			25°			ft
	ft	lb	ft	ft	lb	ft	lb	ft		
60	78.7	258.0	21,200						60	
65	77.6	256.9	20,900						65	
70	76.4	255.6	20,600	79.6	254.1	20,900			70	
75	75.3	254.3	20,200	78.5	252.8	20,500			75	
80	74.1	252.8	19,800	77.3	251.3	20,200			80	
85	72.9	251.3	19,400	76.1	249.7	19,900	79.4	245.8	19,300	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	17,200	67.6	235.3	17,900	70.8	231.1	15,500	120
125	63.3	234.4	16,900	66.4	232.8	17,700	69.5	228.5	15,100	125
130	62.0	231.7	16,700	65.1	230.1	17,600	68.2	225.7	14,700	130
135	60.7	228.9	16,300	63.8	227.2	17,400	66.9	222.8	14,300	135
140	59.4	225.9	16,100	62.5	224.2	17,100	65.5	219.8	13,900	140
145	58.1	222.8	15,800	61.2	221.0	16,900	64.2	216.5	13,600	145
150	56.8	219.5	15,300	59.8	217.7	16,100	62.8	213.1	13,300	150
155	55.4	216.0	14,300	58.5	214.2	15,100	61.4	209.5	13,000	155
160	54.0	212.3	13,400	57.1	210.5	14,200	60.0	205.7	12,700	160
165	52.6	208.5	12,600	55.6	206.6	13,300	58.5	201.8	12,400	165
170	51.2	204.4	11,900	54.2	202.5	12,500	57.0	197.6	12,100	170
175	49.7	200.1	11,100	52.7	198.2	11,700	55.5	193.1	11,900	175
180	48.2	195.6	10,400	51.2	193.6	11,000	54.0	188.5	11,600	180
185	46.7	190.9	9,800	49.7	188.8	10,300	52.4	183.5	10,900	185
190	45.1	185.9	9,200	48.1	183.8	9,700	50.7	178.3	10,200	190
195	43.5	180.6	8,600	46.4	178.4	9,100	49.0	172.8	9,500	195
200	41.8	175.0	8,100	44.7	172.7	8,500	47.3	166.9	8,900	200
205	40.1	169.0	7,500	43.0	166.7	8,000	45.4	160.6	8,300	205
210	38.3	162.7	7,000	41.1	160.3	7,400	43.5	153.9	7,800	210
215	36.4	155.9	6,600	39.2	153.4	6,900	41.5	146.7	7,200	215
220	34.4	148.6	6,100	37.2	145.9	6,400				220
225	32.4	140.8	5,700	35.1	137.9	6,000				225
230	30.2	132.2	5,300	32.8	129.2	5,500				230
235	27.8	122.8	4,900	30.4	119.5	5,100				235
240	25.2	112.4	4,400							240
245	22.3	100.5	4,000							245

MLC165-1 S-2

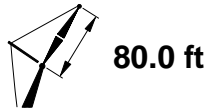
ASME B30.5



123,400 lb
+
45,100 lb



187.0 ft

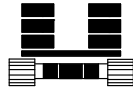


80.0 ft

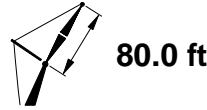
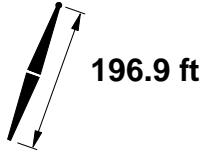
ft	5°			15°			25°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
60	79.1	268.1	21,000							60
65	78.0	267.0	20,700							65
70	76.9	265.8	20,400							70
75	75.8	264.5	20,100	78.9	262.9	20,400				75
80	74.7	263.1	19,700	77.8	261.5	20,100				80
85	73.6	261.6	19,400	76.7	260.0	19,800				85
90	72.5	260.0	19,000	75.5	258.4	19,500	78.7	254.4	19,000	90
95	71.3	258.3	18,700	74.4	256.7	19,300	77.5	252.6	18,300	95
100	70.2	256.4	18,400	73.2	254.8	19,000	76.3	250.7	17,800	100
105	69.0	254.5	18,100	72.1	252.9	18,700	75.2	248.8	17,200	105
110	67.9	252.4	17,700	70.9	250.8	18,400	74.0	246.6	16,700	110
115	66.7	250.2	17,400	69.7	248.6	18,200	72.8	244.4	16,200	115
120	65.5	247.9	17,200	68.5	246.3	17,900	71.6	242.0	15,800	120
125	64.3	245.5	16,900	67.3	243.8	17,700	70.3	239.5	15,400	125
130	63.1	242.9	16,700	66.1	241.2	17,600	69.1	236.9	15,000	130
135	61.9	240.2	16,300	64.9	238.5	17,400	67.8	234.1	14,600	135
140	60.7	237.4	16,200	63.6	235.6	17,100	66.6	231.2	14,200	140
145	59.4	234.4	15,900	62.4	232.6	16,800	65.3	228.1	13,900	145
150	58.2	231.3	14,900	61.1	229.5	15,800	64.0	224.9	13,600	150
155	56.9	228.0	14,000	59.8	226.1	14,800	62.7	221.5	13,200	155
160	55.6	224.5	13,100	58.5	222.7	13,900	61.3	218.0	13,000	160
165	54.2	220.9	12,300	57.2	219.0	13,000	59.9	214.2	12,700	165
170	52.9	217.0	11,500	55.8	215.1	12,200	58.6	210.3	12,400	170
175	51.5	213.0	10,800	54.4	211.1	11,500	57.1	206.1	12,100	175
180	50.1	208.8	10,100	53.0	206.8	10,800	55.7	201.8	11,300	180
185	48.7	204.4	9,500	51.5	202.4	10,100	54.2	197.2	10,600	185
190	47.2	199.8	8,900	50.1	197.7	9,400	52.7	192.3	9,900	190
195	45.7	194.8	8,300	48.5	192.7	8,800	51.1	187.2	9,300	195
200	44.2	189.7	7,800	47.0	187.5	8,200	49.5	181.8	8,700	200
205	42.6	184.2	7,200	45.4	182.0	7,700	47.8	176.1	8,100	205
210	40.9	178.4	6,700	43.7	176.1	7,200	46.1	170.1	7,500	210
215	39.2	172.3	6,300	42.0	169.9	6,700	44.3	163.6	7,000	215
220	37.5	165.8	5,800	40.2	163.2	6,200	42.5	156.7	6,500	220
225	35.6	158.8	5,400	38.3	156.2	5,700	40.5	149.3	6,000	225
230	33.7	151.3	5,000	36.4	148.5	5,300				230
235	31.7	143.2	4,500	34.3	140.3	4,900				235
240	29.5	134.5	4,000	32.1	131.3	4,400				240

MLC165-1 S-2

ASME B30.5



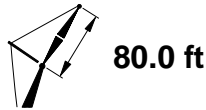
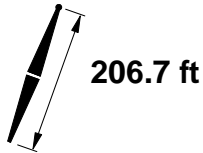
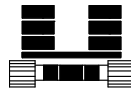
123,400 lb
+
45,100 lb



ft	5°			15°			25°			ft
	ft	lb	ft	ft	lb	ft	lb	ft		
60	79.5	278.1	20,800						60	
65	78.5	277.1	20,500						65	
70	77.4	275.9	20,200						70	
75	76.3	274.7	19,900	79.3	273.1	20,400			75	
80	75.3	273.3	19,600	78.2	271.8	20,000			80	
85	74.2	271.9	19,300	77.2	270.3	19,700			85	
90	73.1	270.3	18,900	76.1	268.7	19,500	79.1	264.7	19,100	90
95	72.0	268.7	18,600	75.0	267.1	19,200	78.0	263.0	18,600	95
100	70.9	266.9	18,300	73.9	265.3	18,900	76.9	261.2	18,000	100
105	69.8	265.1	18,000	72.8	263.4	18,600	75.7	259.3	17,500	105
110	68.7	263.1	17,700	71.6	261.4	18,400	74.6	257.2	17,000	110
115	67.6	261.0	17,400	70.5	259.3	18,100	73.4	255.1	16,500	115
120	66.5	258.8	17,200	69.4	257.1	18,000	72.3	252.8	16,100	120
125	65.3	256.4	16,900	68.2	254.8	17,800	71.1	250.5	15,600	125
130	64.2	254.0	16,500	67.1	252.3	17,600	69.9	247.9	15,200	130
135	63.0	251.4	16,400	65.9	249.7	17,300	68.7	245.3	14,900	135
140	61.8	248.7	16,100	64.7	247.0	17,100	67.5	242.5	14,500	140
145	60.6	245.9	15,500	63.5	244.1	16,500	66.3	239.6	14,200	145
150	59.4	242.9	14,500	62.3	241.1	15,400	65.1	236.5	13,800	150
155	58.2	239.7	13,600	61.1	237.9	14,500	63.8	233.3	13,500	155
160	57.0	236.5	12,700	59.8	234.6	13,500	62.5	229.9	13,200	160
165	55.7	233.0	11,900	58.5	231.1	12,700	61.2	226.4	12,900	165
170	54.4	229.4	11,100	57.3	227.5	11,900	59.9	222.7	12,600	170
175	53.1	225.6	10,400	55.9	223.7	11,100	58.6	218.8	11,800	175
180	51.8	221.7	9,700	54.6	219.7	10,400	57.2	214.7	11,000	180
185	50.5	217.5	9,100	53.3	215.5	9,700	55.8	210.4	10,300	185
190	49.1	213.1	8,500	51.9	211.1	9,100	54.4	205.9	9,600	190
195	47.7	208.6	7,900	50.4	206.5	8,500	53.0	201.1	9,000	195
200	46.3	203.8	7,300	49.0	201.6	7,900	51.5	196.1	8,400	200
205	44.8	198.7	6,800	47.5	196.5	7,300	49.9	190.8	7,800	205
210	43.3	193.4	6,300	46.0	191.1	6,800	48.4	185.3	7,200	210
215	41.7	187.7	5,900	44.4	185.4	6,300	46.7	179.4	6,700	215
220	40.1	181.8	5,400	42.8	179.4	5,800	45.0	173.1	6,200	220
225	38.4	175.5	4,900	41.1	173.0	5,400	43.3	166.5	5,700	225
230	36.7	168.8	4,400	39.3	166.2	4,900	41.4	159.4	5,200	230
235				37.5	158.9	4,300				235

MLC165-1 S-2

ASME B30.5



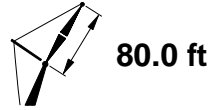
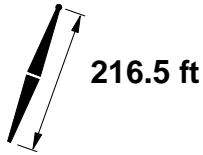
ft	5°			15°			25°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
65	78.9	287.1	20,300							65
70	77.9	286.0	20,000							70
75	76.8	284.8	19,700							75
80	75.8	283.5	19,400	78.7	281.9	19,900				80
85	74.8	282.1	19,100	77.6	280.5	19,600				85
90	73.7	280.7	18,800	76.6	279.0	19,400	79.5	274.9	19,000	90
95	72.7	279.1	18,500	75.5	277.4	19,100	78.4	273.3	18,800	95
100	71.6	277.4	18,200	74.4	275.7	18,800	77.3	271.6	18,300	100
105	70.5	275.6	17,900	73.4	273.9	18,600	76.3	269.7	17,700	105
110	69.5	273.7	17,700	72.3	272.0	18,400	75.2	267.8	17,200	110
115	68.4	271.7	17,400	71.2	270.0	18,100	74.1	265.7	16,800	115
120	67.3	269.5	17,100	70.1	267.9	17,900	73.0	263.6	16,300	120
125	66.2	267.3	16,800	69.0	265.6	17,600	71.8	261.3	15,900	125
130	65.1	265.0	16,500	67.9	263.2	17,400	70.7	258.9	15,500	130
135	64.0	262.5	16,300	66.8	260.8	17,200	69.6	256.4	15,100	135
140	62.9	259.9	16,100	65.7	258.1	17,100	68.4	253.7	14,800	140
145	61.7	257.2	15,200	64.5	255.4	16,200	67.2	250.9	14,400	145
150	60.6	254.3	14,200	63.4	252.5	15,100	66.1	248.0	14,100	150
155	59.4	251.3	13,200	62.2	249.5	14,100	64.9	244.9	13,800	155
160	58.2	248.2	12,400	61.0	246.4	13,200	63.7	241.7	13,500	160
165	57.1	244.9	11,500	59.8	243.1	12,400	62.4	238.3	13,100	165
170	55.8	241.5	10,800	58.6	239.6	11,500	61.2	234.8	12,300	170
175	54.6	237.9	10,000	57.3	236.0	10,800	59.9	231.1	11,500	175
180	53.4	234.2	9,400	56.1	232.3	10,100	58.6	227.3	10,700	180
185	52.1	230.3	8,700	54.8	228.3	9,400	57.3	223.2	10,000	185
190	50.8	226.2	8,100	53.5	224.1	8,700	56.0	219.0	9,300	190
195	49.5	221.9	7,500	52.2	219.8	8,100	54.6	214.5	8,700	195
200	48.1	217.4	7,000	50.8	215.3	7,600	53.2	209.9	8,100	200
205	46.8	212.6	6,500	49.4	210.5	7,000	51.8	205.0	7,500	205
210	45.4	207.7	6,000	48.0	205.5	6,500	50.3	199.8	6,900	210
215	43.9	202.5	5,400	46.5	200.2	6,000	48.8	194.4	6,400	215
220	42.4	197.0	4,900	45.0	194.6	5,500	47.3	188.6	5,900	220
225	40.9	191.2	4,400	43.5	188.8	4,900	45.7	182.6	5,400	225
230				41.9	182.6	4,400	44.0	176.1	4,800	230
235							42.3	169.3	4,300	235

MLC165-1 S-2

ASME B30.5



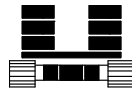
123,400 lb
+
45,100 lb



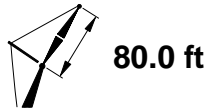
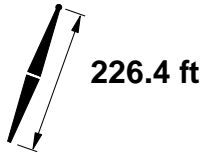
	5°			15°			25°					
	ft	°	ft	lb	ft	°	ft	lb	ft			
65	79.3		297.2	20,000						65		
70	78.3		296.1	19,700						70		
75	77.3		295.0	19,500						75		
80	76.3		293.7	19,200	79.0		292.1	19,700		80		
85	75.3		292.4	18,900	78.0		290.8	19,500		85		
90	74.3		290.9	18,700	77.0		289.3	19,200		90		
95	73.3		289.4	18,400	76.0		287.8	19,000	78.8	283.6	18,800	95
100	72.2		287.8	18,100	75.0		286.1	18,700	77.8	281.9	18,500	100
105	71.2		286.0	17,800	74.0		284.4	18,500	76.7	280.2	18,000	105
110	70.2		284.2	17,500	72.9		282.5	18,200	75.7	278.3	17,500	110
115	69.2		282.3	17,300	71.9		280.6	18,000	74.6	276.3	17,000	115
120	68.1		280.2	17,000	70.8		278.5	17,800	73.6	274.2	16,600	120
125	67.1		278.1	16,700	69.8		276.4	17,500	72.5	272.0	16,100	125
130	66.0		275.8	16,400	68.7		274.1	17,400	71.4	269.7	15,700	130
135	64.9		273.5	16,300	67.6		271.7	17,200	70.3	267.3	15,400	135
140	63.9		271.0	15,900	66.5		269.2	17,000	69.2	264.8	15,000	140
145	62.8		268.4	14,800	65.5		266.6	15,800	68.1	262.1	14,700	145
150	61.7		265.7	13,800	64.3		263.9	14,800	67.0	259.3	14,300	150
155	60.6		262.8	12,800	63.2		261.0	13,800	65.8	256.4	14,000	155
160	59.4		259.8	12,000	62.1		258.0	12,900	64.7	253.3	13,700	160
165	58.3		256.7	11,100	60.9		254.8	12,000	63.5	250.1	12,800	165
170	57.1		253.4	10,400	59.8		251.6	11,200	62.3	246.8	12,000	170
175	56.0		250.0	9,600	58.6		248.1	10,400	61.1	243.3	11,200	175
180	54.8		246.5	9,000	57.4		244.5	9,700	59.9	239.6	10,400	180
185	53.6		242.8	8,300	56.2		240.8	9,000	58.7	235.8	9,700	185
190	52.4		238.9	7,700	55.0		236.9	8,400	57.4	231.8	9,000	190
195	51.1		234.8	7,100	53.7		232.8	7,800	56.1	227.6	8,400	195
200	49.8		230.6	6,600	52.4		228.5	7,200	54.8	223.2	7,700	200
205	48.5		226.1	6,000	51.1		224.0	6,600	53.5	218.6	7,200	205
210	47.2		221.5	5,400	49.8		219.3	6,100	52.1	213.8	6,600	210
215	45.9		216.6	4,800	48.4		214.4	5,500	50.7	208.7	6,100	215
220	44.5		211.5	4,300	47.0		209.2	4,900	49.3	203.4	5,500	220
225					45.6		203.8	4,400	47.8	197.8	4,900	225
230									46.3	191.9	4,300	230

MLC165-1 S-2

ASME B30.5



123,400 lb
+
45,100 lb



ft	5°			15°			25°			ft
	ft	ft	lb	ft	ft	lb	ft	ft	lb	
65	79.6	307.2	19,600							65
70	78.6	306.2	19,400							70
75	77.7	305.1	19,200							75
80	76.7	303.9	19,000	79.4	302.2	19,500				80
85	75.8	302.6	18,700	78.4	300.9	19,300				85
90	74.8	301.2	18,400	77.5	299.5	19,000				90
95	73.8	299.7	18,200	76.5	298.1	18,800	79.2	293.9	18,700	95
100	72.8	298.1	17,900	75.5	296.5	18,600	78.2	292.2	18,500	100
105	71.9	296.5	17,600	74.5	294.8	18,300	77.2	290.5	18,200	105
110	70.9	294.7	17,400	73.5	293.0	18,100	76.2	288.7	17,700	110
115	69.9	292.8	17,100	72.5	291.1	17,900	75.2	286.8	17,200	115
120	68.9	290.9	16,900	71.5	289.2	17,700	74.1	284.8	16,800	120
125	67.8	288.8	16,600	70.5	287.1	17,500	73.1	282.7	16,400	125
130	66.8	286.6	16,400	69.4	284.9	17,300	72.1	280.5	16,000	130
135	65.8	284.4	16,100	68.4	282.6	17,000	71.0	278.2	15,600	135
140	64.8	282.0	15,500	67.4	280.2	16,700	70.0	275.7	15,200	140
145	63.7	279.5	14,500	66.3	277.7	15,500	68.9	273.2	14,900	145
150	62.7	276.9	13,500	65.3	275.1	14,500	67.8	270.5	14,600	150
155	61.6	274.1	12,500	64.2	272.3	13,500	66.7	267.7	14,300	155
160	60.5	271.3	11,600	63.1	269.5	12,600	65.6	264.8	13,500	160
165	59.4	268.3	10,800	62.0	266.4	11,700	64.5	261.7	12,600	165
170	58.3	265.2	10,000	60.9	263.3	10,900	63.4	258.5	11,700	170
175	57.2	261.9	9,300	59.8	260.0	10,100	62.2	255.2	10,900	175
180	56.1	258.5	8,600	58.6	256.6	9,400	61.1	251.7	10,200	180
185	54.9	255.0	8,000	57.5	253.1	8,700	59.9	248.1	9,400	185
190	53.8	251.3	7,400	56.3	249.3	8,100	58.7	244.3	8,800	190
195	52.6	247.5	6,800	55.1	245.5	7,500	57.5	240.3	8,100	195
200	51.4	243.5	6,100	53.9	241.4	6,900	56.2	236.2	7,500	200
205	50.2	239.3	5,500	52.7	237.2	6,300	55.0	231.8	6,900	205
210	48.9	234.9	4,900	51.4	232.7	5,700	53.7	227.3	6,400	210
215	47.7	230.3	4,400	50.1	228.1	5,100	52.4	222.6	5,700	215
220				48.8	223.3	4,500	51.0	217.6	5,100	220
225				47.5	218.2	4,000	49.7	212.4	4,500	225
230							48.2	206.9	4,000	230