

Liftcrane Jib Capacities

Jib No. 117 on
 Boom No. B10:290
 45,400 lb Crane Counterweight
 0 lb Carbody Counterweight
 Crawler Machine on a Barge
 0 Degree thru 3 Degree Static Machine List
 No Travel - 360 Degree Rating

MLC90A-1 SERIES 1



LIFTING CAPACITIES: Chart supplements Boom Capacity chart No. 9759-A. Lifting capacities are for a crawler machine when operating on a barge. Machine shall be positively secured to prevent shifting. 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. Capacities must be reduced by applicable deducts.

Weight of all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom and jib point sheaves is considered part of 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 on a firm and uniformly supporting surface with machine list not to exceed degrees noted. Refer to Boom Rigging No. 80121887, Jib Rigging No. 84054323, Wire Rope Specifications chart No. 9756-A, Counterweight Arrangements chart No. 9745-A, and Wind Conditions chart No. 9755-A. Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, wind conditions, as well as adverse operating conditions and physical machine depreciation. Refer to the Operator Manual for operating guidelines.



OPERATING RADIUS: Operating radius is horizontal distance from axis of rotation at barge deck 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 barge deck to centerline of jib point shaft.

MACHINE EQUIPMENT: Machine equipped with 21 ft 3 in. crawlers, 35 in. treads, 14 ft 5 in. gantry, 8 part boom hoist reeving, two 32 mm boom pendants, 45,400 lb crane counterweight, and 0 lb carbody counterweight.

Refer to Tables 1 and 2 for raising ability with the maximum weight of all load blocks, hooks, weight ball, slings, and hoist lines beneath boom and jib point sheaves. For block weights shown with #, load blocks, hooks, weight ball, and slings must remain on barge deck until combined weights are within rated capacity of chart. Raising is not permitted in shaded areas of table.

Caution: Combined weight beneath boom and jib point sheaves must not exceed block weight shown. Total weight beneath jib point must not exceed 700 lb.

Table 1

Over End or Side of Crawlers								
Boom Length (ft)	Jib No. 117							
	30.0 ft		40.0 ft		50.0 ft		60.0 ft	
	0°	1° - 3°	0°	1° - 3°	0°	1° - 3°	0°	1° - 3°
	Block Weight (lb)							
62.3 - 101.7	3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800
111.5	3,800	3,800	3,800	3,800	2,650	2,650	2,650	2,650
121.4	2,650	2,650	700	700	700	700	700	700
131.2	700	700	700	700	700	700	#	#
141.1	#	#	#	#	#	#	#	#
150.9	Raising Not Permitted							
160.8	Raising Not Permitted							

Table 2

Over End of Blocked Crawlers								
Boom Length (ft)	Jib No. 117							
	30.0 ft		40.0 ft		50.0 ft		60.0 ft	
	0°	1° - 3°	0°	1° - 3°	0°	1° - 3°	0°	1° - 3°
	Block Weight (lb)							
62.3 - 101.7	3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800
111.5	3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800
121.4	3,800	3,800	3,800	3,800	3,800	3,800	2,650	2,650
131.2	2,650	2,650	2,650	2,650	2,650	2,650	700	700
141.1	700	700	700	700	700	700	700	700
150.9	700	700	700	700	#	#	#	#
160.8	#	#	Raising Not Permitted					

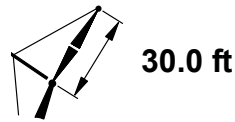
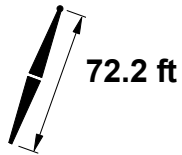
Warning: Crane must remain in-line with crawlers when raising over end of blocked crawlers until operating radius is within 360 degree chart. Crane tipping or structural damage can occur.

Explanation of Symbols

	Jib No. 117 + Boom No. B10:290
	Crane Counterweight + Carbody Counterweight
	360 Degree Rating
	Boom Length
	Jib Length
	Jib Offset Angle
	Operating Radius (see page 1)
	Boom Angle (see page 1)
	Jib Point Elevation (see page 1)
	Machine List
	Lifting Capacities (see page 1)

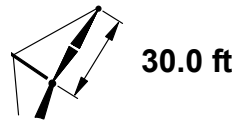
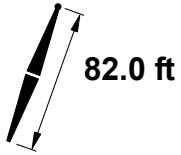
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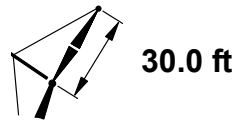
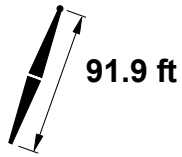
	10°						30°								
	ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft	°	ft	0° lb	1° lb		2° lb	3° lb
28	80.5	107.3	27,600												28
30	79.3	106.8	27,600	27,600											30
32	78.2	106.2	27,600	27,600	25,100										32
34	77.0	105.7	27,600	27,600	24,900	22,500									34
36	75.9	105.1	27,600	27,600	24,800	22,500	80.5	102.5	20,800						36
38	74.7	104.4	27,600	27,600	24,700	22,300	79.3	101.8	20,300	20,000					38
40	73.5	103.7	27,600	27,500	24,600	22,300	78.1	101.1	19,900	19,500	19,200				40
42	72.3	102.9	27,600	27,300	24,500	22,100	76.9	100.3	19,500	19,100	18,800	18,300			42
44	71.1	102.1	27,600	27,200	24,300	22,100	75.6	99.5	19,100	18,700	18,400	18,200			44
46	69.9	101.3	27,600	26,000	24,200	22,000	74.4	98.6	18,700	18,400	18,100	17,800			46
48	68.7	100.4	26,100	24,600	23,200	21,900	73.1	97.7	18,300	18,000	17,800	17,500			48
50	67.5	99.4	24,600	23,300	22,000	20,900	71.9	96.7	18,000	17,700	17,400	17,200			50
55	64.3	96.8	21,600	20,500	19,500	18,500	68.6	94.0	17,200	16,900	16,700	16,500			55
60	61.1	93.8	19,100	18,200	17,400	16,600	65.3	90.9	16,400	16,200	16,100	15,900			60
65	57.7	90.4	17,000	16,300	15,600	14,900	61.8	87.4	15,800	15,600	15,500	15,300			65
70	54.2	86.5	15,300	14,700	14,100	13,500	58.2	83.4	15,200	15,000	14,400	13,800			70
75	50.5	82.2	13,800	13,300	12,800	12,300	54.3	78.8	14,100	13,600	13,100	12,600			75
80	46.6	77.2	12,500	12,100	11,600	11,200	50.2	73.5	12,700	12,300	11,900	11,500			80
85	42.3	71.4	11,400	11,000	10,600	10,300	45.7	67.4	11,600	11,200	10,800	10,500			85
90	37.6	64.6	10,400	10,100	9,800	9,500	40.6	60.1	10,500	10,200	9,900	9,600			90
95	32.3	56.4	9,500	9,200	9,000	8,700	34.7	51.1	9,600	9,300	9,100	8,800			95
100	25.8	45.8	8,700	8,500	8,300	8,000									100

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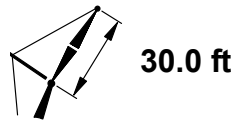
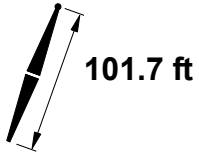
	10°							30°							
			0°								0°				
	ft	°	ft	lb	lb	lb	lb	ft	°	ft	lb	lb	lb	lb	ft
30	80.3	116.9	27,600												30
32	79.2	116.4	27,600	27,600											32
34	78.2	115.9	27,600	27,600	24,900										34
36	77.1	115.3	27,600	27,600	24,900	22,500									36
38	76.1	114.7	27,600	27,600	24,700	22,400	80.3	112.1	20,700						38
40	75.0	114.1	27,600	27,600	24,600	22,300	79.2	111.4	20,300	19,900					40
42	73.9	113.4	27,600	27,400	24,500	22,200	78.1	110.7	19,900	19,500	19,200				42
44	72.9	112.7	27,600	27,200	24,400	22,100	77.0	110.0	19,500	19,200	18,800	17,700			44
46	71.8	111.9	27,400	25,600	24,000	22,000	75.9	109.2	19,100	18,800	18,500	17,700			46
48	70.7	111.1	25,800	24,200	22,700	21,400	74.8	108.4	18,800	18,500	18,200	17,700			48
50	69.6	110.3	24,400	22,900	21,500	20,300	73.6	107.5	18,400	18,100	17,900	17,600			50
55	66.8	107.9	21,300	20,100	19,000	18,000	70.8	105.1	17,600	17,400	17,200	16,900			55
60	63.9	105.3	18,800	17,900	16,900	16,100	67.8	102.4	16,900	16,700	16,500	16,300			60
65	60.9	102.3	16,800	16,000	15,200	14,500	64.7	99.3	16,300	16,100	15,600	14,900			65
70	57.9	98.9	15,000	14,300	13,700	13,100	61.6	95.8	15,400	14,700	14,100	13,500			70
75	54.7	95.1	13,500	13,000	12,400	11,900	58.3	91.9	13,900	13,300	12,700	12,200			75
80	51.4	90.9	12,300	11,800	11,300	10,800	54.8	87.5	12,500	12,000	11,600	11,100			80
85	47.9	86.1	11,100	10,700	10,300	9,900	51.2	82.5	11,400	10,900	10,500	10,100			85
90	44.1	80.7	10,100	9,800	9,400	9,100	47.2	76.8	10,300	10,000	9,600	9,300			90
95	40.1	74.5	9,300	8,900	8,600	8,300	42.9	70.2	9,400	9,100	8,800	8,500			95
100	35.6	67.2	8,500	8,200	7,900	7,700	38.1	62.4	8,600	8,300	8,000	7,800			100
105	30.5	58.5	7,800	7,500	7,300	7,100	32.4	52.7	7,800	7,600	7,400	7,100			105
110	24.2	47.3	7,100	6,900	6,700	6,500									110

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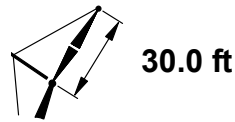
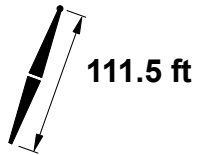
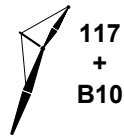
	10°							30°							
	ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft
32	80.1	126.5	27,600												32
34	79.2	126.0	27,600	27,600											34
36	78.2	125.5	27,600	27,600	24,800										36
38	77.2	125.0	27,600	27,600	24,700	22,300									38
40	76.3	124.4	27,600	27,600	24,600	22,300	80.1	121.7	20,600						40
42	75.3	123.8	27,600	27,500	24,600	22,200	79.1	121.1	20,200	19,900					42
44	74.3	123.1	27,600	26,800	24,500	22,100	78.1	120.4	19,900	19,500	19,200				44
46	73.3	122.4	27,200	25,300	23,600	22,000	77.1	119.7	19,500	19,200	18,800	17,200			46
48	72.3	121.7	25,600	23,900	22,300	20,900	76.1	118.9	19,200	18,800	18,500	17,200			48
50	71.3	120.9	24,200	22,600	21,200	19,800	75.1	118.1	18,800	18,500	18,200	17,200			50
55	68.8	118.8	21,100	19,900	18,700	17,600	72.5	115.9	18,100	17,800	17,600	17,200			55
60	66.2	116.4	18,700	17,600	16,600	15,700	69.8	113.5	17,400	17,200	16,900	16,200			60
65	63.5	113.7	16,600	15,700	14,900	14,100	67.1	110.7	16,800	16,200	15,400	14,600			65
70	60.8	110.7	14,900	14,100	13,400	12,700	64.3	107.7	15,300	14,500	13,800	13,200			70
75	58.0	107.4	13,400	12,700	12,100	11,600	61.4	104.2	13,800	13,100	12,500	11,900			75
80	55.1	103.7	12,100	11,600	11,000	10,500	58.4	100.4	12,400	11,900	11,300	10,800			80
85	52.1	99.6	11,000	10,500	10,000	9,600	55.3	96.2	11,300	10,800	10,300	9,900			85
90	48.9	95.0	10,000	9,600	9,200	8,800	52.0	91.4	10,200	9,800	9,400	9,000			90
95	45.6	89.9	9,100	8,800	8,400	8,100	48.5	86.0	9,300	9,000	8,600	8,300			95
100	42.0	84.1	8,300	8,000	7,700	7,400	44.7	79.9	8,500	8,200	7,900	7,600			100
105	38.1	77.4	7,600	7,400	7,100	6,800	40.6	72.9	7,700	7,500	7,200	6,900			105
110	33.8	69.7	7,000	6,700	6,500	6,300	35.9	64.5	7,100	6,800	6,600	6,400			110
115	28.9	60.4	6,400	6,200	6,000	5,800	30.5	54.2	6,400	6,200	6,000	5,800			115
120	22.9	48.6	5,800	5,700	5,500	5,300									120

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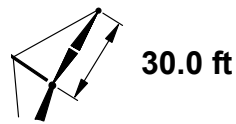
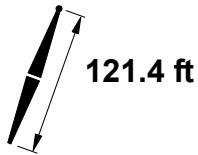
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	ft	°	ft	0° lb	1° lb	2° lb	3° lb	°	ft	0° lb	1° lb	2° lb	3° lb	ft
32	80.9	136.6	27,600											32
34	80.0	136.1	27,600	27,600										34
36	79.1	135.7	27,600	27,600										36
38	78.2	135.2	27,600	27,600	24,700									38
40	77.3	134.6	27,600	27,600	24,600	22,200		80.9	131.9	20,900				40
42	76.4	134.1	27,600	27,600	24,600	22,200		80.0	131.3	20,500	20,200			42
44	75.5	133.4	27,600	26,400	24,400	22,100		79.1	130.7	20,200	19,800			44
46	74.6	132.8	27,000	24,900	23,100	21,400		78.1	130.0	19,800	19,500	19,200		46
48	73.7	132.1	25,400	23,500	21,800	20,300		77.2	129.3	19,500	19,200	18,900	16,900	48
50	72.8	131.4	24,000	22,300	20,700	19,300		76.3	128.6	19,200	18,900	18,600	16,800	50
55	70.4	129.5	20,900	19,500	18,300	17,100		73.9	126.6	18,500	18,200	17,900	16,800	55
60	68.1	127.3	18,400	17,300	16,200	15,200		71.5	124.4	17,800	17,500	16,800	15,800	60
65	65.7	124.9	16,400	15,400	14,500	13,700		69.0	121.9	16,900	15,900	15,000	14,200	65
70	63.2	122.2	14,600	13,800	13,000	12,300		66.5	119.1	15,100	14,300	13,500	12,800	70
75	60.7	119.2	13,100	12,400	11,800	11,200		63.9	116.1	13,600	12,900	12,200	11,600	75
80	58.1	115.9	11,900	11,200	10,700	10,100		61.2	112.7	12,200	11,600	11,000	10,500	80
85	55.4	112.3	10,700	10,200	9,700	9,200		58.5	108.9	11,100	10,500	10,000	9,500	85
90	52.7	108.3	9,700	9,300	8,800	8,400		55.6	104.8	10,000	9,600	9,100	8,700	90
95	49.8	103.8	8,900	8,500	8,100	7,700		52.6	100.2	9,100	8,700	8,300	7,900	95
100	46.8	98.9	8,100	7,700	7,400	7,100		49.5	95.1	8,300	7,900	7,600	7,300	100
105	43.5	93.4	7,400	7,100	6,800	6,500		46.1	89.3	7,500	7,200	6,900	6,600	105
110	40.1	87.3	6,700	6,500	6,200	5,900		42.5	82.8	6,900	6,600	6,300	6,100	110
115	36.4	80.2	6,100	5,900	5,700	5,400		38.5	75.3	6,200	6,000	5,800	5,500	115
120	32.2	72.1	5,600	5,400	5,200	5,000		34.0	66.5	5,700	5,500	5,300	5,000	120
125	27.5	62.3	5,100	4,900	4,700	4,600								125
130	21.7	49.8	4,600	4,500	4,300	4,200								130

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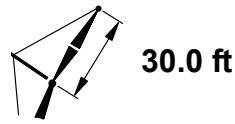
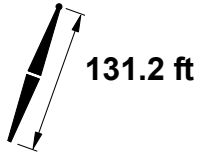
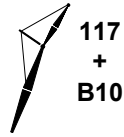
	10°							30°						
	ft	°	ft	lb	lb	lb	lb	°	ft	lb	lb	lb	lb	ft
34	80.7	146.2	27,600											34
36	79.9	145.8	27,600	27,600										36
38	79.0	145.3	27,600	27,600										38
40	78.2	144.8	27,600	27,600	24,600									40
42	77.4	144.3	27,600	27,500	24,400	22,000		80.7	141.5	20,800				42
44	76.5	143.7	27,600	26,100	23,900	22,000	79.9	140.9	20,500	20,100				44
46	75.7	143.1	26,700	24,500	22,600	20,900	79.0	140.3	20,100	19,800				46
48	74.9	142.5	25,200	23,200	21,400	19,800	78.2	139.7	19,800	19,500	19,200			48
50	74.0	141.8	23,700	21,900	20,300	18,800	77.3	139.0	19,500	19,200	18,900	16,500		50
55	71.9	140.1	20,700	19,200	17,900	16,600	75.1	137.2	18,800	18,500	18,200	16,500		55
60	69.7	138.1	18,200	17,000	15,800	14,800	72.9	135.1	18,200	17,600	16,500	15,400		60
65	67.5	135.8	16,100	15,100	14,200	13,300	70.6	132.8	16,700	15,700	14,700	13,800		65
70	65.3	133.4	14,400	13,500	12,700	11,900	68.3	130.3	14,900	14,000	13,200	12,400		70
75	63.0	130.6	12,900	12,200	11,500	10,800	66.0	127.5	13,400	12,600	11,900	11,200		75
80	60.6	127.7	11,600	11,000	10,400	9,800	63.6	124.5	12,000	11,400	10,800	10,200		80
85	58.2	124.4	10,500	9,900	9,400	8,900	61.1	121.1	10,900	10,300	9,800	9,200		85
90	55.7	120.8	9,500	9,000	8,600	8,100	58.6	117.4	9,800	9,300	8,900	8,400		90
95	53.2	116.9	8,600	8,200	7,800	7,400	55.9	113.4	8,900	8,500	8,100	7,600		95
100	50.5	112.6	7,900	7,500	7,100	6,700	53.2	108.9	8,100	7,700	7,300	7,000		100
105	47.7	107.8	7,200	6,800	6,500	6,200	50.3	104.0	7,400	7,000	6,700	6,400		105
110	44.8	102.6	6,500	6,200	5,900	5,600	47.3	98.6	6,700	6,400	6,100	5,800		110
115	41.7	96.8	5,900	5,700	5,400	5,100	44.0	92.5	6,100	5,800	5,500	5,300		115
120	38.4	90.3	5,400	5,200	4,900	4,700	40.5	85.6	5,500	5,300	5,000	4,800		120
125	34.8	82.9	4,900	4,700	4,500	4,300	36.7	77.7	5,000	4,800	4,600	4,400		125
130	30.8	74.3	4,500	4,300	4,100	3,900	32.4	68.4	4,500	4,300	4,100	3,900		130
135	26.2	64.0	4,000	3,900	3,700	3,500								135
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MLC90A-1 S-1



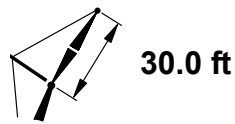
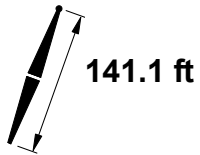
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	ft	°	ft	0°	1°	2°	3°	ft	°	ft	0°	1°	2°	3°	ft
36	80.5	155.8	27,600												36
38	79.8	155.4	27,600	27,600											38
40	79.0	154.9	27,600	27,600	24,400										40
42	78.2	154.4	27,600	27,300	24,400										42
44	77.4	153.9	27,600	25,700	23,400	21,500		80.6	151.1	20,700					44
46	76.7	153.4	26,500	24,200	22,100	20,300		79.8	150.5	20,400	20,000				46
48	75.9	152.8	24,900	22,800	20,900	19,300		79.0	149.9	20,100	19,800	19,400			48
50	75.1	152.2	23,500	21,600	19,800	18,300		78.2	149.3	19,800	19,500	19,100			50
55	73.1	150.5	20,400	18,900	17,400	16,200		76.1	147.6	19,100	18,800	18,200	16,200		55
60	71.1	148.7	17,900	16,600	15,500	14,400		74.1	145.7	18,500	17,300	16,100	15,000		60
65	69.1	146.6	15,900	14,800	13,800	12,900		72.0	143.6	16,500	15,400	14,400	13,400		65
70	67.0	144.3	14,100	13,200	12,300	11,500		69.9	141.3	14,700	13,800	12,900	12,100		70
75	64.9	141.8	12,600	11,800	11,100	10,400		67.7	138.8	13,200	12,300	11,600	10,900		75
80	62.7	139.1	11,400	10,700	10,000	9,400		65.5	136.0	11,800	11,100	10,400	9,800		80
85	60.5	136.1	10,200	9,600	9,100	8,500		63.3	132.9	10,600	10,000	9,400	8,900		85
90	58.3	132.9	9,300	8,700	8,200	7,700		61.0	129.6	9,600	9,100	8,600	8,100		90
95	56.0	129.4	8,400	7,900	7,500	7,000		58.6	125.9	8,700	8,200	7,800	7,300		95
100	53.6	125.5	7,600	7,200	6,800	6,400		56.2	122.0	7,900	7,500	7,000	6,700		100
105	51.2	121.3	6,900	6,500	6,200	5,800		53.6	117.6	7,100	6,800	6,400	6,000		105
110	48.6	116.7	6,300	5,900	5,600	5,300		51.0	112.9	6,500	6,100	5,800	5,500		110
115	45.9	111.7	5,700	5,400	5,100	4,800		48.2	107.7	5,900	5,600	5,300	5,000		115
120	43.1	106.1	5,100	4,900	4,600	4,400		45.3	101.9	5,300	5,000	4,800	4,500		120
125	40.1	100.0	4,700	4,400	4,200	3,900		42.2	95.5	4,800	4,500	4,300	4,100		125
130	36.9	93.2	4,200	4,000	3,800	3,600		38.8	88.2	4,300	4,100	3,900	3,700		130
135	33.5	85.4	3,800	3,600	3,400	3,200		35.1	79.9	3,900	3,700	3,500	3,300		135
140	29.6	76.4	3,400	3,200	3,100	2,900		30.9	70.2	3,400	3,300	3,100	2,900		140
145	25.1	65.6	3,000	2,900	2,700	2,600									145

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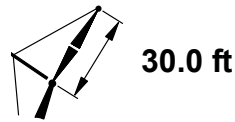
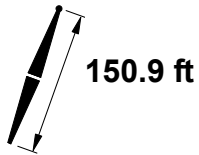
		10°						30°									
				0°	1°	2°	3°					0°	1°	2°	3°		
		ft	°	ft	lb	lb	lb	lb	ft	°	ft	lb	lb	lb	lb	ft	
38	80.4	165.5	27,600														38
40	79.7	165.0	27,600	27,400													40
42	78.9	164.6	27,600	27,000	24,200												42
44	78.2	164.1	27,600	25,300	23,000												44
46	77.5	163.6	26,300	23,800	21,700	19,800		80.4	160.7	20,700							46
48	76.8	163.0	24,700	22,500	20,500	18,800	79.7	160.1	20,400	20,000							48
50	76.0	162.5	23,300	21,200	19,400	17,800	78.9	159.6	20,100	19,700	18,900						50
55	74.2	160.9	20,200	18,500	17,100	15,700	77.0	158.0	19,400	19,100	17,900	15,800					55
60	72.3	159.2	17,700	16,300	15,100	14,000	75.1	156.2	18,500	17,100	15,800	14,700					60
65	70.4	157.3	15,700	14,500	13,500	12,500	73.2	154.3	16,300	15,200	14,100	13,100					65
70	68.5	155.2	13,900	12,900	12,000	11,200	71.2	152.1	14,500	13,500	12,600	11,700					70
75	66.5	152.8	12,400	11,600	10,800	10,100	69.2	149.8	13,000	12,100	11,300	10,600					75
80	64.6	150.3	11,200	10,400	9,700	9,100	67.2	147.2	11,600	10,900	10,200	9,500					80
85	62.5	147.6	10,000	9,400	8,800	8,200	65.2	144.4	10,500	9,800	9,200	8,600					85
90	60.5	144.6	9,100	8,500	8,000	7,400	63.1	141.3	9,500	8,900	8,300	7,800					90
95	58.4	141.4	8,200	7,700	7,200	6,700	60.9	138.0	8,500	8,000	7,500	7,100					95
100	56.2	137.9	7,400	7,000	6,500	6,100	58.7	134.4	7,700	7,300	6,800	6,400					100
105	54.0	134.1	6,700	6,300	5,900	5,500	56.4	130.5	7,000	6,600	6,200	5,800					105
110	51.7	130.0	6,100	5,700	5,400	5,000	54.0	126.3	6,300	5,900	5,600	5,300					110
115	49.3	125.5	5,500	5,200	4,900	4,500	51.6	121.7	5,700	5,400	5,100	4,700					115
120	46.9	120.6	5,000	4,700	4,400	4,100	49.0	116.7	5,200	4,900	4,600	4,300					120
125	44.3	115.3	4,500	4,200	4,000	3,700	46.4	111.1	4,600	4,400	4,100	3,900					125
130	41.6	109.5	4,000	3,800	3,600	3,300	43.5	105.1	4,200	3,900	3,700	3,500					130
135	38.7	103.1	3,600	3,400	3,200	3,000	40.5	98.3	3,700	3,500	3,300	3,100					135
140	35.6	95.9	3,200	3,000	2,800	2,700	37.2	90.7	3,300	3,100	2,900	2,700					140
145	32.2	87.8	2,900	2,700	2,500	2,400	33.6	82.1	2,900	2,700	2,600	2,400					145
150	28.5	78.4	2,500	2,400	2,200	2,100											150
155	24.1	67.2	2,200	2,100													155

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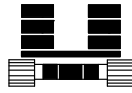
		10°						30°						
	ft	°	ft	0° lb	1° lb	2° lb	3° lb	°	ft	0° lb	1° lb	2° lb	3° lb	ft
38	81.0	175.5	27,600											38
40	80.3	175.1	27,600											40
42	79.6	174.7	27,600	26,600										42
44	78.9	174.2	27,600	24,900	22,500									44
46	78.2	173.7	26,000	23,500	21,200			81.0	170.8	20,900				46
48	77.5	173.2	24,500	22,100	20,100	18,300		80.3	170.3	20,600				48
50	76.8	172.7	23,000	20,900	19,000	17,300		79.6	169.8	20,300	20,000			50
55	75.1	171.2	20,000	18,200	16,700	15,300		77.8	168.3	19,700	19,100	17,500	15,500	55
60	73.4	169.6	17,500	16,000	14,700	13,500		76.0	166.6	18,300	16,800	15,500	14,300	60
65	71.6	167.8	15,400	14,200	13,100	12,100		74.2	164.8	16,100	14,900	13,800	12,700	65
70	69.8	165.8	13,700	12,600	11,700	10,800		72.4	162.8	14,300	13,300	12,300	11,400	70
75	68.0	163.7	12,200	11,300	10,500	9,700		70.6	160.6	12,800	11,900	11,000	10,200	75
80	66.1	161.4	10,900	10,100	9,400	8,700		68.7	158.2	11,400	10,600	9,900	9,200	80
85	64.3	158.8	9,800	9,100	8,500	7,900		66.8	155.6	10,300	9,600	8,900	8,300	85
90	62.4	156.1	8,800	8,200	7,600	7,100		64.8	152.8	9,200	8,600	8,000	7,500	90
95	60.4	153.1	7,900	7,400	6,900	6,400		62.8	149.8	8,300	7,800	7,200	6,800	95
100	58.4	149.9	7,200	6,700	6,200	5,800		60.8	146.5	7,500	7,000	6,500	6,100	100
105	56.4	146.4	6,500	6,000	5,600	5,200		58.7	142.9	6,800	6,300	5,900	5,500	105
110	54.3	142.7	5,800	5,400	5,100	4,700		56.6	139.1	6,100	5,700	5,300	5,000	110
115	52.2	138.6	5,200	4,900	4,500	4,200		54.4	134.9	5,500	5,100	4,800	4,500	115
120	50.0	134.3	4,700	4,400	4,100	3,800		52.1	130.5	4,900	4,600	4,300	4,000	120
125	47.7	129.6	4,200	3,900	3,700	3,400		49.7	125.6	4,400	4,100	3,800	3,600	125
130	45.3	124.4	3,800	3,500	3,300	3,000		47.3	120.3	3,900	3,700	3,400	3,200	130
135	42.8	118.9	3,400	3,100	2,900	2,700		44.7	114.5	3,500	3,300	3,000	2,800	135
140	40.2	112.8	3,000	2,800	2,600	2,300		41.9	108.1	3,100	2,900	2,700	2,500	140
145	37.4	106.0	2,600	2,400	2,200	2,000		39.0	101.1	2,700	2,500	2,300	2,100	145
150	34.4	98.5	2,300	2,100				35.8	93.1	2,400	2,200	2,000		150
155	31.1	90.1	2,000					32.3	84.1	2,000				155

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	10°						30°									
	ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft	°	ft	0° lb	1° lb		2° lb	3° lb	ft
40	80.8	185.1	27,600													40
42	80.2	184.7	27,600													42
44	79.5	184.3	27,500	24,600												44
46	78.9	183.8	25,800	23,100	20,800											46
48	78.2	183.4	24,200	21,700	19,600			80.8	180.4	20,800						48
50	77.6	182.8	22,800	20,500	18,600	16,800		80.2	179.9	20,600						50
55	75.9	181.5	19,700	17,900	16,300	14,800		78.5	178.5	19,900	18,800	17,100				55
60	74.3	180.0	17,200	15,700	14,400	13,100		76.8	177.0	18,100	16,500	15,100	13,900			60
65	72.6	178.3	15,200	13,900	12,700	11,700		75.1	175.3	15,900	14,600	13,400	12,400			65
70	70.9	176.4	13,400	12,300	11,300	10,400		73.4	173.4	14,100	13,000	12,000	11,000			70
75	69.2	174.4	12,000	11,000	10,100	9,300		71.7	171.3	12,600	11,600	10,700	9,900			75
80	67.5	172.2	10,700	9,800	9,100	8,400		69.9	169.1	11,200	10,400	9,600	8,900			80
85	65.8	169.9	9,600	8,800	8,200	7,500		68.2	166.7	10,100	9,300	8,600	8,000			85
90	64.0	167.3	8,600	7,900	7,300	6,800		66.4	164.1	9,000	8,400	7,800	7,200			90
95	62.2	164.5	7,700	7,100	6,600	6,100		64.5	161.2	8,100	7,500	7,000	6,500			95
100	60.4	161.6	6,900	6,400	5,900	5,500		62.6	158.2	7,300	6,800	6,300	5,800			100
105	58.5	158.4	6,200	5,800	5,300	4,900		60.7	154.9	6,600	6,100	5,600	5,200			105
110	56.6	154.9	5,600	5,200	4,800	4,400		58.8	151.4	5,900	5,500	5,100	4,700			110
115	54.6	151.2	5,000	4,600	4,300	3,900		56.8	147.6	5,300	4,900	4,500	4,200			115
120	52.6	147.3	4,500	4,100	3,800	3,500		54.7	143.6	4,700	4,400	4,000	3,700			120
125	50.5	143.0	4,000	3,700	3,400	3,100		52.6	139.2	4,200	3,900	3,600	3,300			125
130	48.4	138.4	3,500	3,300	3,000	2,700		50.4	134.4	3,700	3,500	3,200	2,900			130
135	46.2	133.4	3,100	2,900	2,600	2,400		48.1	129.3	3,300	3,000	2,800	2,500			135
140	43.9	128.1	2,800	2,500	2,300	2,100		45.7	123.8	2,900	2,700	2,400	2,200			140
145	41.4	122.2	2,400	2,200	2,000			43.2	117.7	2,500	2,300	2,100				145
150	38.9	115.9	2,100					40.5	111.1	2,200	2,000					150

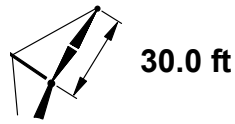
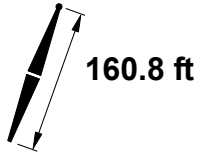
MLC90A-1 S-1



45,400 lb
+
0 lb

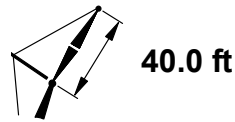
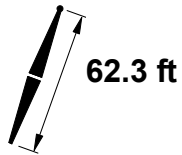


360°



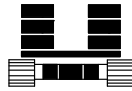
	10°							30°						
			45,400 lb + 0 lb						45,400 lb + 0 lb					
	ft	°	ft	0° lb	1° lb	2° lb	3° lb	°	ft	0° lb	1° lb	2° lb	3° lb	ft
42	80.7	194.8	27,600											42
44	80.1	194.4	27,300											44
46	79.5	193.9	25,500	22,700										46
48	78.8	193.5	24,000	21,400	19,200									48
50	78.2	193.0	22,500	20,200	18,100			80.7	190.0	20,800				50
55	76.7	191.7	19,500	17,600	15,900	14,400		79.1	188.7	20,200	18,500			55
60	75.1	190.3	17,000	15,400	14,000	12,700		77.6	187.3	17,900	16,200	14,800	13,500	60
65	73.6	188.7	14,900	13,600	12,400	11,300		76.0	185.6	15,700	14,300	13,100	12,000	65
70	72.0	186.9	13,200	12,000	11,000	10,000		74.3	183.9	13,900	12,700	11,700	10,700	70
75	70.4	185.0	11,700	10,700	9,800	9,000		72.7	182.0	12,300	11,300	10,400	9,500	75
80	68.8	183.0	10,400	9,500	8,800	8,000		71.1	179.9	11,000	10,100	9,300	8,500	80
85	67.1	180.8	9,300	8,500	7,800	7,200		69.4	177.6	9,800	9,100	8,300	7,700	85
90	65.5	178.4	8,300	7,600	7,000	6,400		67.7	175.1	8,800	8,100	7,500	6,900	90
95	63.8	175.8	7,400	6,800	6,300	5,700		66.0	172.5	7,900	7,300	6,700	6,100	95
100	62.1	173.0	6,700	6,100	5,600	5,100		64.3	169.7	7,100	6,500	6,000	5,500	100
105	60.3	170.0	5,900	5,500	5,000	4,600		62.5	166.6	6,300	5,800	5,400	4,900	105
110	58.5	166.8	5,300	4,900	4,500	4,100		60.7	163.4	5,700	5,200	4,800	4,400	110
115	56.7	163.4	4,700	4,300	4,000	3,600		58.8	159.9	5,000	4,600	4,200	3,900	115
120	54.9	159.8	4,200	3,800	3,500	3,200		56.9	156.2	4,500	4,100	3,800	3,400	120
125	53.0	155.9	3,700	3,400	3,100	2,800		55.0	152.2	4,000	3,600	3,300	3,000	125
130	51.0	151.7	3,300	3,000	2,700	2,400		53.0	147.9	3,500	3,200	2,900	2,600	130
135	49.0	147.2	2,900	2,600	2,300	2,100		50.9	143.3	3,100	2,800	2,500	2,200	135
140	46.9	142.4	2,500	2,200	2,000			48.8	138.3	2,700	2,400	2,200		140
145	44.8	137.2	2,100					46.5	132.9	2,300	2,000			145

MLC90A-1 S-1



		10°						30°						
	ft	°	ft	lb	lb	lb	lb	°	ft	lb	lb	lb	lb	ft
30	80.9	106.8	26,500											30
32	79.7	106.3	26,200	23,000										32
34	78.6	105.7	25,900	22,800										34
36	77.4	105.1	25,700	22,700	20,000									36
38	76.2	104.4	25,400	22,400	19,900	17,800								38
					19,800	17,700								
40	75.0	103.7	25,200	22,300	19,600	17,600								40
42	73.8	102.9	25,000	22,100	19,500	17,400	80.1	99.8	16,400					42
44	72.6	102.1	24,700	21,900	19,300	17,300	78.8	99.0	16,100	15,800	15,500			44
46	71.4	101.3	24,600	21,800	19,200	17,200	77.6	98.1	15,700	15,400	15,200	13,800		46
48	70.2	100.4	24,300	21,600	19,100	17,100	76.3	97.1	15,300	15,100	14,800	13,600		48
50	69.0	99.4	24,100	21,500	19,000	17,000	75.0	96.2	15,000	14,800	14,500	13,400		50
55	65.8	96.8	22,100	21,000	18,700	16,800	71.8	93.4	14,300	14,100	13,900	13,000		55
60	62.6	93.8	19,600	18,700	17,900	16,700	68.4	90.3	13,600	13,400	13,300	12,600		60
65	59.2	90.4	17,600	16,800	16,100	15,400	64.9	86.8	13,000	12,900	12,700	12,200		65
70	55.7	86.5	15,800	15,200	14,600	14,000	61.2	82.7	12,500	12,400	12,200	11,900		70
75	52.0	82.2	14,300	13,800	13,300	12,800	57.3	78.1	12,000	11,900	11,800	11,600		75
80	48.1	77.2	13,000	12,600	12,200	11,700	53.1	72.8	11,600	11,500	11,500	11,300		80
85	43.8	71.4	11,900	11,500	11,200	10,800	48.6	66.6	11,300	11,200	11,100	11,000		85
90	39.1	64.6	10,900	10,600	10,300	10,000	43.4	59.2	11,000	10,800	10,500	10,200		90
95	33.8	56.4	10,000	9,700	9,500	9,200	37.4	49.9	10,100	9,900	9,600	9,400		95
100	27.3	45.9	9,200	9,000	8,800	8,500								100

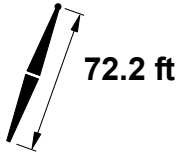
MLC90A-1 S-1



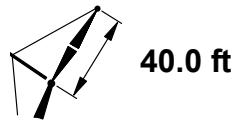
45,400 lb
+
0 lb




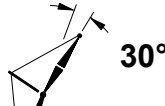
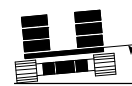
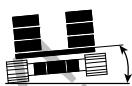
360°



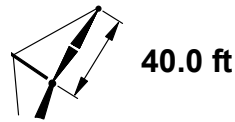
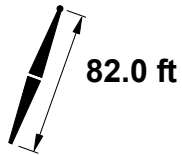
72.2 ft



40.0 ft

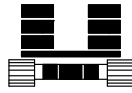
		10°						30°							
															
															
				0°	1°	2°	3°			0°	1°	2°	3°		
ft	°	ft	lb	lb	lb	lb	°	ft	lb	lb	lb	lb	ft		
32	80.6	116.4	26,300											32	
34	79.6	115.9	26,100	22,900										34	
36	78.5	115.3	25,900	22,800	20,000									36	
38	77.5	114.7	25,600	22,600	19,800	17,700								38	
40	76.4	114.1	25,400	22,400	19,700	17,600								40	
42	75.3	113.4	25,300	22,200	19,600	17,500	81.0	110.1	16,700					42	
44	74.2	112.7	25,000	22,100	19,500	17,400	79.9	109.4	16,400	16,100				44	
46	73.2	111.9	24,800	21,900	19,400	17,300	78.8	108.6	16,000	15,700	15,400			46	
48	72.1	111.1	24,700	21,800	19,300	17,300	77.6	107.7	15,700	15,400	15,200	13,200		48	
50	71.0	110.2	24,500	21,700	19,100	17,200	76.5	106.9	15,400	15,100	14,900	13,200		50	
55	68.2	107.9	21,900	20,700	18,900	17,000	73.6	104.4	14,700	14,400	14,200	13,200		55	
60	65.3	105.2	19,400	18,500	17,500	16,700	70.6	101.7	14,000	13,800	13,600	13,200		60	
65	62.3	102.2	17,400	16,500	15,800	15,000	67.5	98.6	13,400	13,300	13,100	12,900		65	
70	59.3	98.9	15,600	14,900	14,300	13,600	64.4	95.1	12,900	12,800	12,600	12,500		70	
75	56.1	95.1	14,100	13,500	13,000	12,400	61.0	91.1	12,500	12,300	12,200	12,100		75	
80	52.8	90.9	12,800	12,300	11,800	11,400	57.5	86.7	12,000	11,900	11,800	11,700		80	
85	49.2	86.1	11,700	11,300	10,900	10,500	53.8	81.7	11,700	11,600	11,200	10,800		85	
90	45.5	80.7	10,700	10,300	10,000	9,600	49.8	75.9	11,000	10,600	10,200	9,900		90	
95	41.4	74.5	9,800	9,500	9,200	8,900	45.5	69.2	10,000	9,700	9,400	9,100		95	
100	37.0	67.2	9,000	8,700	8,500	8,200	40.6	61.2	9,200	8,900	8,600	8,400		100	
105	31.8	58.4	8,300	8,100	7,800	7,600	34.8	51.3	8,400	8,200	7,900	7,700		105	
110	25.6	47.2	7,600	7,400	7,200	7,100								110	

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	10°							30°							
	ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft
34	80.4	126.0	26,200												34
36	79.5	125.5	26,100	22,800											36
38	78.5	124.9	25,800	22,700	19,900										38
40	77.5	124.4	25,600	22,500	19,800	17,700									40
42	76.6	123.7	25,500	22,400	19,700	17,500									42
44	75.6	123.1	25,300	22,300	19,500	17,500	80.8	119.7	16,600						44
46	74.6	122.4	25,100	22,100	19,400	17,400	79.8	119.0	16,300	16,000					46
48	73.6	121.6	24,900	22,000	19,300	17,300	78.7	118.2	16,000	15,700	15,400				48
50	72.6	120.9	24,700	21,800	19,200	17,300	77.7	117.4	15,700	15,400	15,200	12,800			50
55	70.0	118.7	21,700	20,400	19,000	17,100	75.1	115.2	15,000	14,800	14,500	12,800			55
60	67.5	116.4	19,200	18,100	17,100	16,200	72.4	112.7	14,400	14,200	14,000	12,800			60
65	64.8	113.7	17,100	16,200	15,400	14,600	69.7	110.0	13,800	13,600	13,400	12,800			65
70	62.1	110.7	15,400	14,600	13,900	13,200	66.8	106.9	13,300	13,100	13,000	12,800			70
75	59.3	107.4	13,900	13,200	12,600	12,000	63.9	103.4	12,800	12,700	12,600	12,400			75
80	56.4	103.7	12,600	12,000	11,500	11,000	60.9	99.6	12,400	12,300	11,900	11,400			80
85	53.3	99.6	11,500	11,000	10,500	10,100	57.7	95.3	11,800	11,300	10,900	10,400			85
90	50.2	95.0	10,500	10,000	9,600	9,200	54.4	90.4	10,800	10,300	9,900	9,600			90
95	46.8	89.8	9,600	9,200	8,800	8,500	50.8	85.0	9,800	9,500	9,100	8,800			95
100	43.2	84.0	8,800	8,500	8,100	7,800	47.0	78.8	9,000	8,700	8,400	8,100			100
105	39.4	77.4	8,100	7,800	7,500	7,200	42.8	71.6	8,200	7,900	7,700	7,400			105
110	35.1	69.7	7,400	7,200	6,900	6,700	38.1	63.1	7,500	7,300	7,100	6,800			110
115	30.1	60.4	6,800	6,600	6,400	6,200	32.5	52.5	6,900	6,700	6,500	6,300			115
120	24.1	48.5	6,200	6,100	5,900	5,700									120

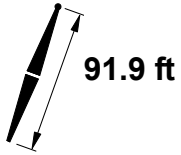
MLC90A-1 S-1



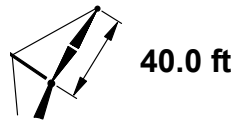
45,400 lb
+
0 lb



360°



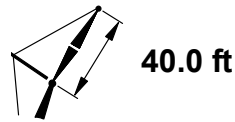
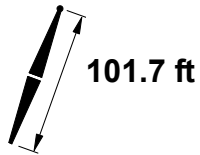
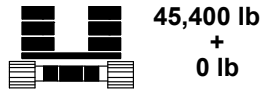
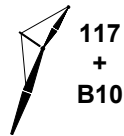
91.9 ft



40.0 ft

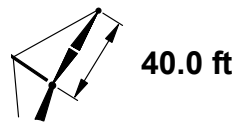
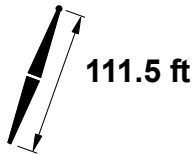
	10°							30°						
	ft	°	ft	0° lb	1° lb	2° lb	3° lb	°	ft	0° lb	1° lb	2° lb	3° lb	ft
36	80.3	135.6	26,200											36
38	79.4	135.1	25,900	22,700										38
40	78.5	134.6	25,800	22,600	19,800									40
42	77.6	134.0	25,600	22,500	19,700	17,500								42
44	76.7	133.4	25,400	22,300	19,600	17,500								44
46	75.8	132.8	25,300	22,200	19,500	17,400	80.6	129.3	16,500					46
48	74.9	132.1	25,100	22,100	19,400	17,300	79.6	128.6	16,200	15,900				48
50	73.9	131.4	24,600	22,000	19,300	17,300	78.7	127.8	16,000	15,700	15,200			50
55	71.6	129.4	21,500	20,100	18,900	17,100	76.3	125.8	15,300	15,000	14,800	12,500		55
60	69.3	127.3	19,000	17,900	16,800	15,800	73.9	123.6	14,700	14,500	14,200	12,500		60
65	66.9	124.8	16,900	16,000	15,100	14,300	71.4	121.1	14,100	13,900	13,800	12,500		65
70	64.4	122.1	15,200	14,400	13,600	12,900	68.8	118.3	13,700	13,500	13,300	12,500		70
75	61.9	119.1	13,700	13,000	12,300	11,700	66.2	115.2	13,200	13,000	12,900	12,200		75
80	59.3	115.8	12,400	11,800	11,200	10,700	63.5	111.8	12,800	12,300	11,700	11,100		80
85	56.6	112.2	11,300	10,800	10,300	9,800	60.8	108.0	11,700	11,200	10,700	10,200		85
90	53.8	108.2	10,300	9,800	9,400	9,000	57.9	103.8	10,700	10,200	9,700	9,300		90
95	51.0	103.8	9,400	9,000	8,600	8,200	54.8	99.2	9,700	9,300	8,900	8,500		95
100	47.9	98.8	8,600	8,300	7,900	7,600	51.6	94.0	8,900	8,500	8,200	7,800		100
105	44.7	93.4	7,900	7,600	7,300	7,000	48.2	88.2	8,100	7,800	7,500	7,200		105
110	41.3	87.2	7,300	7,000	6,700	6,500	44.6	81.6	7,400	7,200	6,900	6,600		110
115	37.5	80.1	6,700	6,400	6,200	6,000	40.5	73.9	6,800	6,600	6,300	6,100		115
120	33.4	72.0	6,100	5,900	5,700	5,500	35.9	64.9	6,200	6,000	5,800	5,600		120
125	28.6	62.2	5,600	5,400	5,300	5,100								125
130	22.8	49.6	5,200	5,000	4,800	4,700								130

MLC90A-1 S-1



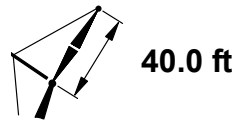
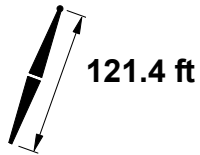
	10°							30°								
				45,400 lb + 0 lb							45,400 lb + 0 lb					
	ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft	°	ft	0° lb	1° lb	2° lb	3° lb		ft
36	81.0	145.7	26,100													36
38	80.1	145.2	26,000													38
40	79.3	144.7	25,800	22,600												40
42	78.5	144.2	25,700	22,500	19,700											42
44	77.6	143.7	25,500	22,400	19,600	17,500										44
46	76.8	143.1	25,400	22,200	19,500	17,400										46
48	76.0	142.4	25,200	22,200	19,400	17,300	80.4	138.8	16,500							48
50	75.1	141.8	24,400	22,100	19,300	17,300	79.5	138.2	16,200	15,900						50
55	73.0	140.0	21,300	19,800	18,400	17,100	77.3	136.3	15,600	15,300	14,700	12,200				55
60	70.8	138.0	18,800	17,500	16,400	15,400	75.1	134.3	15,000	14,700	14,500	12,200				60
65	68.6	135.8	16,700	15,700	14,700	13,800	72.8	132.0	14,500	14,200	14,000	12,200				65
70	66.3	133.3	14,900	14,100	13,300	12,500	70.5	129.4	14,000	13,800	13,600	12,200				70
75	64.1	130.6	13,500	12,700	12,000	11,300	68.2	126.6	13,500	13,300	12,600	11,900				75
80	61.7	127.6	12,200	11,500	10,900	10,300	65.7	123.5	12,700	12,000	11,400	10,800				80
85	59.3	124.3	11,000	10,500	9,900	9,400	63.2	120.2	11,500	10,900	10,400	9,900				85
90	56.8	120.7	10,000	9,500	9,100	8,600	60.7	116.4	10,500	9,900	9,500	9,000				90
95	54.3	116.8	9,200	8,700	8,300	7,900	58.0	112.3	9,500	9,100	8,600	8,200				95
100	51.6	112.5	8,400	8,000	7,600	7,200	55.2	107.8	8,700	8,300	7,900	7,500				100
105	48.8	107.8	7,700	7,300	7,000	6,600	52.3	102.9	7,900	7,600	7,200	6,900				105
110	45.9	102.5	7,000	6,700	6,400	6,100	49.2	97.3	7,200	6,900	6,600	6,300				110
115	42.8	96.7	6,400	6,100	5,900	5,600	46.0	91.2	6,600	6,300	6,100	5,800				115
120	39.5	90.2	5,900	5,600	5,400	5,200	42.4	84.2	6,000	5,800	5,600	5,300				120
125	35.9	82.8	5,400	5,200	5,000	4,700	38.5	76.1	5,500	5,300	5,100	4,900				125
130	31.9	74.2	4,900	4,700	4,500	4,400	34.1	66.6	5,000	4,800	4,600	4,400				130
135	27.3	63.9	4,500	4,300	4,200	4,000										135
140	21.6	50.7	4,100	3,900	3,800	3,700										140

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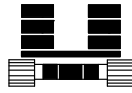
	10°							30°						
			45,400 lb + 0 lb						45,400 lb + 0 lb					
	ft	°	ft	0° lb	1° lb	2° lb	3° lb	°	ft	0° lb	1° lb	2° lb	3° lb	ft
38	80.8	155.3	26,000											38
40	80.0	154.9	25,900											40
42	79.2	154.4	25,700	22,400										42
44	78.5	153.8	25,600	22,400	19,500									44
46	77.7	153.3	25,500	22,200	19,500	17,300								46
48	76.9	152.7	25,300	22,200	19,400	17,300								48
50	76.1	152.1	24,100	22,000	19,400	17,200	80.3	148.4	16,400					50
55	74.1	150.4	21,100	19,500	18,100	16,800	78.2	146.7	15,800	15,500	14,400			55
60	72.1	148.6	18,500	17,200	16,100	15,000	76.2	144.8	15,200	15,000	14,400	12,000		60
65	70.1	146.5	16,500	15,400	14,400	13,400	74.1	142.7	14,700	14,500	14,300	12,000		65
70	68.0	144.3	14,700	13,800	12,900	12,100	71.9	140.4	14,300	14,000	13,600	12,000		70
75	65.9	141.8	13,200	12,400	11,700	11,000	69.8	137.8	13,800	13,000	12,300	11,600		75
80	63.8	139.0	11,900	11,200	10,600	10,000	67.6	135.0	12,500	11,800	11,100	10,500		80
85	61.6	136.1	10,800	10,200	9,600	9,100	65.3	131.9	11,300	10,700	10,100	9,600		85
90	59.3	132.8	9,800	9,300	8,800	8,300	63.0	128.5	10,300	9,700	9,200	8,700		90
95	57.0	129.3	8,900	8,500	8,000	7,600	60.6	124.9	9,300	8,900	8,400	8,000		95
100	54.6	125.4	8,100	7,700	7,300	6,900	58.1	120.9	8,500	8,100	7,700	7,300		100
105	52.2	121.2	7,400	7,100	6,700	6,300	55.5	116.5	7,800	7,400	7,000	6,600		105
110	49.6	116.6	6,800	6,500	6,100	5,800	52.9	111.7	7,100	6,700	6,400	6,100		110
115	46.9	111.6	6,200	5,900	5,600	5,300	50.1	106.4	6,400	6,100	5,800	5,600		115
120	44.1	106.0	5,700	5,400	5,100	4,900	47.1	100.6	5,900	5,600	5,300	5,100		120
125	41.1	99.9	5,200	4,900	4,700	4,500	43.9	94.0	5,300	5,100	4,900	4,600		125
130	37.9	93.0	4,700	4,500	4,300	4,100	40.5	86.7	4,900	4,600	4,400	4,200		130
135	34.5	85.3	4,300	4,100	3,900	3,700	36.7	78.2	4,400	4,200	4,000	3,800		135
140	30.6	76.3	3,900	3,700	3,600	3,400	32.4	68.2	4,000	3,800	3,600	3,400		140
145	26.1	65.5	3,500	3,400	3,200	3,100								145
150	20.6	51.6	3,200	3,000	2,900	2,800								150

MLC90A-1 S-1



	10°							30°						
				45,400 lb + 0 lb							45,400 lb + 0 lb			
	ft	°	ft	0° lb	1° lb	2° lb	3° lb	°	ft	0° lb	1° lb	2° lb	3° lb	ft
40	80.6	164.9	25,900											40
42	79.9	164.5	25,700	22,400										42
44	79.2	164.0	25,600	22,300										44
46	78.5	163.5	25,500	22,200	19,400									46
48	77.7	162.9	25,400	22,200	19,300	17,200								48
50	77.0	162.4	23,900	21,900	19,200	17,200	80.9	158.6	16,600					50
55	75.1	160.8	20,800	19,200	17,700	16,300	79.0	157.0	16,000	15,700	14,100			55
60	73.3	159.1	18,300	16,900	15,700	14,500	77.1	155.3	15,500	15,200	14,100	11,700		60
65	71.4	157.2	16,200	15,100	14,000	13,000	75.1	153.3	15,000	14,700	14,100	11,700		65
70	69.4	155.1	14,500	13,500	12,600	11,700	73.2	151.1	14,500	14,200	13,300	11,700		70
75	67.5	152.8	13,000	12,100	11,300	10,600	71.2	148.8	13,700	12,800	12,000	11,200		75
80	65.5	150.2	11,700	10,900	10,200	9,600	69.1	146.2	12,300	11,500	10,800	10,200		80
85	63.5	147.5	10,600	9,900	9,300	8,700	67.0	143.4	11,100	10,400	9,800	9,200		85
90	61.4	144.5	9,600	9,000	8,400	7,900	64.9	140.3	10,100	9,500	8,900	8,400		90
95	59.3	141.3	8,700	8,200	7,700	7,200	62.7	136.9	9,100	8,600	8,100	7,600		95
100	57.2	137.8	7,900	7,400	7,000	6,600	60.5	133.3	8,300	7,800	7,400	7,000		100
105	54.9	134.0	7,200	6,800	6,400	6,000	58.2	129.4	7,500	7,100	6,700	6,300		105
110	52.7	129.9	6,500	6,200	5,800	5,500	55.8	125.1	6,900	6,500	6,100	5,800		110
115	50.3	125.4	5,900	5,600	5,300	5,000	53.3	120.5	6,200	5,900	5,600	5,300		115
120	47.8	120.5	5,400	5,100	4,800	4,500	50.8	115.4	5,700	5,400	5,100	4,800		120
125	45.2	115.2	4,900	4,600	4,400	4,100	48.1	109.8	5,100	4,900	4,600	4,300		125
130	42.5	109.4	4,500	4,200	4,000	3,800	45.2	103.6	4,600	4,400	4,200	3,900		130
135	39.6	103.0	4,000	3,800	3,600	3,400	42.1	96.8	4,200	4,000	3,800	3,500		135
140	36.5	95.8	3,700	3,500	3,300	3,100	38.8	89.1	3,800	3,600	3,400	3,200		140
145	33.1	87.6	3,300	3,100	2,900	2,800	35.1	80.2	3,400	3,200	3,000	2,800		145
150	29.4	78.2	2,900	2,800	2,600	2,500								150
155	25.0	67.0	2,600	2,500	2,300	2,200								155

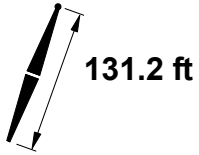
MLC90A-1 S-1



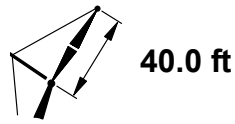
45,400 lb
+
0 lb



360°



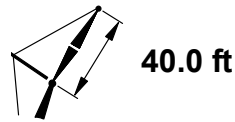
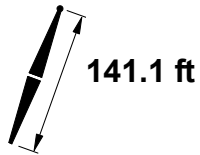
131.2 ft



40.0 ft

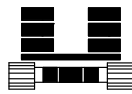
	10°							30°						
	ft	°	ft	0° lb	1° lb	2° lb	3° lb	°	ft	0° lb	1° lb	2° lb	3° lb	ft
42	80.5	174.6	25,700											42
44	79.8	174.1	25,600	22,200										44
46	79.1	173.6	25,400	22,100										46
48	78.4	173.1	25,100	22,100	19,300									48
50	77.8	172.6	23,700	21,500	19,200	17,100								50
55	76.0	171.1	20,600	18,800	17,300	15,900	79.7	167.3	16,200	15,900				55
60	74.3	169.5	18,100	16,600	15,300	14,100	77.9	165.7	15,700	15,400	13,800	11,500		60
65	72.5	167.7	16,000	14,800	13,700	12,700	76.1	163.8	15,200	15,000	13,800	11,500		65
70	70.7	165.8	14,300	13,200	12,300	11,400	74.2	161.8	14,800	14,000	13,000	11,500		70
75	68.9	163.6	12,800	11,900	11,000	10,300	72.4	159.6	13,500	12,600	11,700	10,900		75
80	67.0	161.3	11,500	10,700	10,000	9,300	70.5	157.2	12,100	11,300	10,600	9,900		80
85	65.2	158.7	10,400	9,700	9,000	8,400	68.5	154.6	10,900	10,200	9,600	9,000		85
90	63.3	156.0	9,400	8,800	8,200	7,600	66.6	151.7	9,900	9,300	8,700	8,100		90
95	61.3	153.0	8,500	7,900	7,400	6,900	64.6	148.7	9,000	8,400	7,900	7,400		95
100	59.3	149.8	7,700	7,200	6,700	6,300	62.5	145.4	8,100	7,600	7,200	6,700		100
105	57.3	146.3	7,000	6,500	6,100	5,700	60.4	141.8	7,400	6,900	6,500	6,100		105
110	55.2	142.6	6,300	5,900	5,600	5,200	58.3	137.9	6,700	6,300	5,900	5,600		110
115	53.1	138.5	5,800	5,400	5,100	4,700	56.1	133.7	6,100	5,700	5,400	5,000		115
120	50.9	134.2	5,200	4,900	4,600	4,300	53.8	129.2	5,500	5,200	4,900	4,600		120
125	48.6	129.4	4,700	4,400	4,200	3,900	51.4	124.3	5,000	4,700	4,400	4,100		125
130	46.2	124.3	4,300	4,000	3,800	3,500	48.9	118.9	4,500	4,200	4,000	3,700		130
135	43.7	118.7	3,900	3,600	3,400	3,200	46.2	113.0	4,100	3,800	3,600	3,300		135
140	41.0	112.6	3,500	3,300	3,000	2,800	43.5	106.6	3,600	3,400	3,200	3,000		140
145	38.2	105.9	3,100	2,900	2,700	2,500	40.5	99.4	3,200	3,000	2,800	2,700		145
150	35.2	98.4	2,800	2,600	2,400	2,200	37.2	91.3	2,900	2,700	2,500	2,300		150
155	32.0	89.9	2,500	2,300	2,100	2,000	33.6	82.1	2,500	2,400	2,200	2,000		155
160	28.3	80.1	2,200	2,000										160

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	10°							30°							
	ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft
44	80.4	184.2	25,500												44
46	79.7	183.7	25,400	22,000											46
48	79.1	183.3	24,900	21,900											48
50	78.4	182.8	23,500	21,200	19,000										50
55	76.8	181.4	20,400	18,500	16,900	15,400		80.3	177.5	16,400					55
60	75.1	179.9	17,900	16,300	15,000	13,700	78.6	176.0	15,900	15,600	13,600				60
65	73.5	178.2	15,800	14,500	13,300	12,300	76.9	174.2	15,400	15,200	13,500	11,300			65
70	71.8	176.3	14,000	12,900	11,900	11,000	75.1	172.4	14,900	13,800	12,700	11,300			70
75	70.1	174.3	12,500	11,600	10,700	9,900	73.4	170.3	13,300	12,300	11,400	10,600			75
80	68.4	172.1	11,200	10,400	9,600	8,900	71.6	168.0	11,900	11,100	10,300	9,600			80
85	66.6	169.8	10,100	9,400	8,700	8,100	69.8	165.6	10,700	10,000	9,300	8,600			85
90	64.9	167.2	9,100	8,500	7,900	7,300	68.0	163.0	9,700	9,000	8,400	7,800			90
95	63.1	164.4	8,200	7,700	7,100	6,600	66.2	160.1	8,800	8,200	7,600	7,100			95
100	61.2	161.4	7,400	6,900	6,400	6,000	64.3	157.1	7,900	7,400	6,900	6,400			100
105	59.3	158.2	6,700	6,300	5,800	5,400	62.4	153.8	7,200	6,700	6,200	5,800			105
110	57.4	154.8	6,100	5,700	5,300	4,900	60.4	150.2	6,500	6,100	5,700	5,300			110
115	55.5	151.1	5,500	5,100	4,800	4,400	58.4	146.4	5,900	5,500	5,100	4,800			115
120	53.5	147.1	5,000	4,600	4,300	4,000	56.3	142.3	5,300	4,900	4,600	4,300			120
125	51.4	142.9	4,500	4,200	3,900	3,600	54.1	137.9	4,800	4,500	4,100	3,800			125
130	49.2	138.3	4,000	3,700	3,500	3,200	51.9	133.1	4,300	4,000	3,700	3,400			130
135	47.0	133.3	3,600	3,300	3,100	2,900	49.6	127.9	3,800	3,600	3,300	3,100			135
140	44.7	127.9	3,200	3,000	2,800	2,500	47.2	122.3	3,400	3,200	2,900	2,700			140
145	42.3	122.1	2,900	2,600	2,400	2,200	44.6	116.2	3,000	2,800	2,600	2,400			145
150	39.7	115.7	2,500	2,300	2,100		41.9	109.4	2,700	2,500	2,300	2,100			150
155	37.0	108.7	2,200	2,000			39.0	101.9	2,300	2,100	2,000				155
160							35.8	93.5	2,000						160

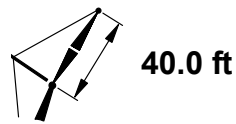
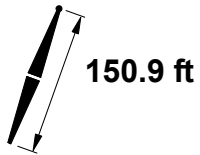
MLC90A-1 S-1



45,400 lb
+
0 lb

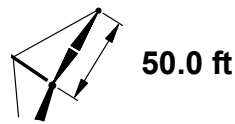
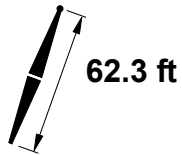


360°



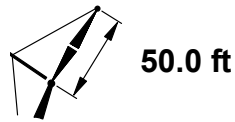
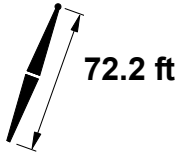
			10°				30°						
ft	°	ft					°	ft					ft
			0°	1°	2°	3°			0°	1°	2°	3°	
			lb	lb	lb	lb			lb	lb	lb	lb	
44	80.9	194.3	25,300										44
46	80.3	193.8	25,200										46
48	79.7	193.4	24,700	21,800									48
50	79.0	192.9	23,200	20,900									50
55	77.5	191.6	20,100	18,200	16,500	15,000	80.8	187.7	16,600				55
60	75.9	190.2	17,600	16,000	14,600	13,300	79.2	186.2	16,100	15,800			60
65	74.4	188.6	15,500	14,200	13,000	11,900	77.6	184.6	15,600	15,200	13,300	11,100	65
70	72.8	186.8	13,800	12,600	11,600	10,600	76.0	182.8	14,700	13,500	12,400	11,100	70
75	71.2	184.9	12,300	11,300	10,400	9,500	74.3	180.9	13,100	12,100	11,100	10,300	75
80	69.6	182.9	11,000	10,100	9,300	8,600	72.7	178.8	11,700	10,900	10,000	9,300	80
85	67.9	180.7	9,900	9,100	8,400	7,700	71.0	176.5	10,600	9,800	9,000	8,300	85
90	66.3	178.3	8,900	8,200	7,600	7,000	69.3	174.0	9,500	8,800	8,100	7,500	90
95	64.6	175.7	8,000	7,400	6,800	6,300	67.6	171.4	8,600	7,900	7,400	6,800	95
100	62.9	172.9	7,200	6,700	6,100	5,700	65.8	168.5	7,700	7,200	6,600	6,100	100
105	61.1	169.9	6,500	6,000	5,500	5,100	64.0	165.5	7,000	6,500	6,000	5,500	105
110	59.4	166.7	5,900	5,400	5,000	4,600	62.2	162.2	6,300	5,800	5,400	5,000	110
115	57.5	163.3	5,300	4,900	4,500	4,100	60.3	158.7	5,700	5,300	4,900	4,500	115
120	55.7	159.7	4,700	4,400	4,000	3,700	58.4	154.9	5,100	4,700	4,400	4,000	120
125	53.8	155.8	4,200	3,900	3,600	3,300	56.5	150.9	4,600	4,200	3,900	3,600	125
130	51.8	151.6	3,800	3,500	3,200	2,900	54.4	146.6	4,100	3,800	3,500	3,200	130
135	49.8	147.1	3,400	3,100	2,800	2,600	52.4	141.9	3,600	3,400	3,100	2,800	135
140	47.7	142.2	3,000	2,700	2,500	2,300	50.2	136.9	3,200	3,000	2,700	2,500	140
145	45.6	137.1	2,600	2,400	2,200	2,000	47.9	131.5	2,800	2,600	2,400	2,100	145
150	43.3	131.4	2,300	2,100			45.6	125.6	2,500	2,300	2,000		150
155	41.0	125.4	2,000				43.1	119.2	2,100				155


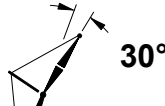
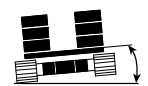
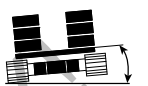
MLC90A-1 S-1



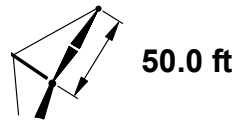
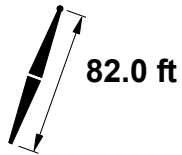
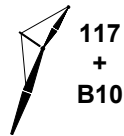
	10°						30°							
	0°	1°	2°	3°	0°	1°	2°	3°	0°	1°	2°	3°		
ft	°	ft	lb	lb	lb	lb	°	ft	lb	lb	lb	lb	ft	
34	80.5	116.0	23,000											34
36	79.4	115.5	22,800	19,600										36
38	78.4	114.9	22,500	19,500	16,800									38
40	77.3	114.3	22,300	19,300	16,700	14,700								40
42	76.2	113.6	22,100	19,100	16,600	14,700								42
44	75.2	112.8	21,900	19,000	16,500	14,600								44
46	74.1	112.1	21,700	18,800	16,400	14,500								46
48	73.0	111.3	21,500	18,700	16,300	14,400	80.1	107.8	14,200					48
50	71.9	110.4	21,300	18,500	16,100	14,300	79.0	106.9	13,800	13,600	12,400			50
55	69.1	108.1	20,900	18,200	15,900	14,100	76.1	104.4	13,100	12,900	11,900	10,700		55
60	66.2	105.4	19,900	17,900	15,600	13,900	73.1	101.7	12,400	12,200	11,400	10,300		60
65	63.3	102.4	17,800	17,000	15,400	13,700	70.1	98.6	11,800	11,700	11,100	9,900		65
70	60.2	99.1	16,100	15,400	14,700	13,600	66.9	95.1	11,300	11,200	10,700	9,700		70
75	57.0	95.3	14,600	14,000	13,400	12,900	63.5	91.2	10,900	10,700	10,300	9,400		75
80	53.7	91.1	13,300	12,800	12,300	11,800	60.0	86.7	10,400	10,300	10,000	9,200		80
85	50.2	86.4	12,100	11,700	11,300	10,900	56.3	81.7	10,100	10,000	9,700	8,900		85
90	46.5	80.9	11,100	10,800	10,400	10,100	52.4	75.9	9,700	9,700	9,500	8,700		90
95	42.4	74.8	10,300	9,900	9,600	9,300	48.0	69.2	9,400	9,400	9,200	8,500		95
100	38.0	67.5	9,500	9,200	8,900	8,600	43.1	61.2	9,200	9,100	9,100	8,400		100
105	32.9	58.8	8,700	8,500	8,300	8,000	37.3	51.3	8,900	8,600	8,400	8,200		105
110	26.7	47.7	8,100	7,900	7,700	7,500								110

MLC90A-1 S-1



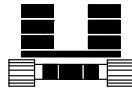
		10°						30°							
															
															
				0°	1°	2°	3°			0°	1°	2°	3°		
ft	°	ft	lb	lb	lb	lb	°	ft	lb	lb	lb	lb	ft		
36	80.3	125.7	22,800											36	
38	79.3	125.1	22,700	19,500										38	
40	78.4	124.5	22,500	19,400	16,700									40	
42	77.4	123.9	22,300	19,300	16,700	14,700								42	
44	76.4	123.2	22,100	19,100	16,500	14,600								44	
46	75.4	122.6	21,900	19,000	16,500	14,500								46	
48	74.4	121.8	21,700	18,800	16,400	14,500								48	
50	73.4	121.0	21,500	18,700	16,300	14,400	80.0	117.3	14,100	13,800				50	
55	70.9	118.9	21,200	18,400	16,000	14,200	77.4	115.1	13,400	13,100	12,900	10,600		55	
60	68.3	116.5	19,700	18,100	15,800	14,000	74.7	112.7	12,800	12,500	12,300	10,600		60	
65	65.7	113.9	17,600	16,700	15,600	13,800	71.9	109.9	12,200	12,000	11,800	10,600		65	
70	62.9	110.9	15,800	15,100	14,400	13,700	69.1	106.8	11,700	11,500	11,400	10,600		70	
75	60.1	107.6	14,300	13,700	13,100	12,500	66.2	103.3	11,200	11,100	10,900	10,500		75	
80	57.2	103.9	13,100	12,500	12,000	11,500	63.2	99.5	10,800	10,700	10,600	10,200		80	
85	54.2	99.8	11,900	11,400	11,000	10,500	60.0	95.2	10,400	10,300	10,200	10,000		85	
90	51.1	95.2	10,900	10,500	10,100	9,700	56.7	90.3	10,100	10,000	9,900	9,800		90	
95	47.7	90.1	10,000	9,700	9,300	9,000	53.1	84.9	9,800	9,700	9,600	9,300		95	
100	44.1	84.3	9,300	8,900	8,600	8,300	49.3	78.7	9,500	9,200	8,900	8,600		100	
105	40.3	77.7	8,500	8,300	8,000	7,700	45.1	71.5	8,800	8,500	8,200	7,900		105	
110	36.0	70.0	7,900	7,600	7,400	7,200	40.3	63.0	8,100	7,800	7,600	7,300		110	
115	31.1	60.7	7,300	7,100	6,900	6,700	34.7	52.3	7,400	7,200	7,000	6,800		115	
120	25.1	48.9	6,700	6,600	6,400	6,200								120	

MLC90A-1 S-1



	10°							30°							
				45,400 lb + 0 lb							45,400 lb + 0 lb				
	ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft
38	80.2	135.3	22,800												38
40	79.3	134.7	22,600	19,400											40
42	78.4	134.2	22,400	19,300	16,700										42
44	77.5	133.6	22,200	19,200	16,600	14,700									44
46	76.5	132.9	22,100	19,100	16,500	14,600									46
48	75.6	132.2	21,900	18,900	16,400	14,500									48
50	74.7	131.5	21,700	18,800	16,300	14,400	80.8	127.7	14,300						50
55	72.4	129.6	21,400	18,600	16,100	14,200	78.4	125.7	13,600	13,400	12,500				55
60	70.0	127.4	19,400	18,200	15,900	14,100	76.0	123.4	13,000	12,800	12,500	10,300			60
65	67.6	125.0	17,300	16,400	15,500	13,900	73.5	120.9	12,500	12,300	12,100	10,300			65
70	65.2	122.3	15,600	14,800	14,000	13,300	70.9	118.1	12,000	11,800	11,600	10,300			70
75	62.7	119.3	14,100	13,400	12,700	12,100	68.3	115.0	11,500	11,400	11,200	10,300			75
80	60.1	116.0	12,800	12,200	11,600	11,100	65.6	111.6	11,100	11,000	10,800	10,300			80
85	57.4	112.4	11,700	11,100	10,600	10,200	62.8	107.8	10,700	10,600	10,500	10,300			85
90	54.6	108.4	10,700	10,200	9,800	9,300	59.9	103.6	10,400	10,300	10,200	9,800			90
95	51.8	104.0	9,800	9,400	9,000	8,600	56.9	99.0	10,100	9,800	9,400	9,000			95
100	48.7	99.1	9,000	8,600	8,300	8,000	53.7	93.8	9,300	9,000	8,600	8,300	100		100
105	45.5	93.6	8,300	8,000	7,700	7,400	50.3	87.9	8,600	8,300	7,900	7,600	105		105
110	42.1	87.4	7,600	7,400	7,100	6,800	46.6	81.3	7,900	7,600	7,300	7,100	110		110
115	38.4	80.4	7,000	6,800	6,600	6,300	42.5	73.7	7,200	7,000	6,700	6,500	115		115
120	34.3	72.3	6,500	6,300	6,100	5,900	37.9	64.6	6,600	6,400	6,200	6,000	120		120
125	29.5	62.5	6,000	5,800	5,600	5,400	32.4	53.2	6,100	5,900	5,700	5,500	125		125
130	23.7	50.1	5,500	5,400	5,200	5,000							130		130

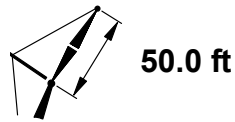
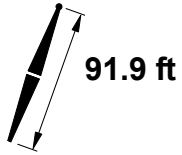
MLC90A-1 S-1



45,400 lb
+
0 lb

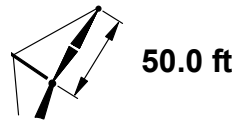
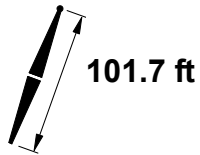


360°



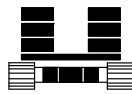
	10°							30°						
				0° 	1° 	2° 	3° 			0° 	1° 	2° 	3° 	
ft	°	ft	lb	lb	lb	lb	°	ft	lb	lb	lb	lb	ft	
38	80.9	145.4	22,800											38
40	80.0	144.9	22,700											40
42	79.2	144.4	22,500	19,400										42
44	78.4	143.8	22,300	19,200	16,600									44
46	77.5	143.2	22,200	19,100	16,500	14,600								46
48	76.7	142.6	22,000	19,000	16,500	14,500								48
50	75.8	141.9	21,900	18,900	16,400	14,400								50
55	73.7	140.1	21,600	18,700	16,200	14,300	79.3	136.1	13,900	13,600				55
60	71.5	138.1	19,200	18,000	16,000	14,200	77.1	134.0	13,300	13,000	12,200	10,000		60
65	69.3	135.9	17,200	16,100	15,200	14,000	74.8	131.7	12,800	12,500	12,100	10,000		65
70	67.1	133.5	15,400	14,500	13,700	13,000	72.5	129.2	12,300	12,100	11,900	10,000		70
75	64.8	130.7	13,900	13,200	12,500	11,800	70.1	126.4	11,800	11,700	11,500	10,000		75
80	62.4	127.8	12,600	12,000	11,400	10,800	67.7	123.3	11,400	11,300	11,100	10,000		80
85	60.0	124.5	11,500	10,900	10,400	9,900	65.2	119.9	11,100	10,900	10,800	10,000		85
90	57.6	120.9	10,500	10,000	9,500	9,100	62.6	116.2	10,700	10,500	10,000	9,500		90
95	55.0	117.0	9,600	9,200	8,800	8,300	59.9	112.1	10,100	9,600	9,200	8,800		95
100	52.4	112.7	8,800	8,400	8,100	7,700	57.1	107.6	9,200	8,800	8,400	8,100		100
105	49.6	108.0	8,100	7,800	7,400	7,100	54.2	102.6	8,500	8,100	7,800	7,400		105
110	46.7	102.7	7,500	7,200	6,900	6,600	51.1	97.0	7,800	7,500	7,100	6,900		110
115	43.6	96.9	6,900	6,600	6,300	6,100	47.8	90.8	7,100	6,900	6,600	6,300		115
120	40.3	90.4	6,300	6,100	5,900	5,600	44.3	83.8	6,600	6,300	6,100	5,800		120
125	36.7	83.0	5,800	5,600	5,400	5,200	40.3	75.7	6,000	5,800	5,600	5,400		125
130	32.7	74.5	5,400	5,200	5,000	4,800	35.9	66.1	5,500	5,300	5,100	4,900		130
135	28.1	64.2	5,000	4,800	4,600	4,500	30.5	54.1	5,000	4,900	4,700	4,500		135
140	22.5	51.1	4,500	4,400	4,300	4,100								140

MLC90A-1 S-1

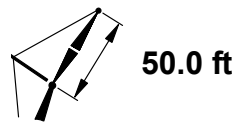
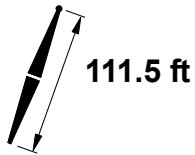


	10°							30°							
	ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft
40	80.7	155.0	22,700												40
42	79.9	154.5	22,600	19,400											42
44	79.1	154.0	22,400	19,200											44
46	78.3	153.4	22,300	19,200	16,500										46
48	77.6	152.9	22,100	19,000	16,400	14,500									48
50	76.8	152.2	22,000	18,900	16,400	14,400									50
55	74.8	150.6	21,500	18,700	16,200	14,300	80.0	146.5	14,100						55
60	72.8	148.7	19,000	17,700	16,000	14,100	78.0	144.5	13,500	13,300	11,800	9,800			60
65	70.8	146.7	16,900	15,800	14,800	13,900	75.9	142.4	13,000	12,800	11,800	9,800			65
70	68.7	144.4	15,200	14,200	13,400	12,600	73.7	140.1	12,500	12,300	11,800	9,800			70
75	66.6	141.9	13,700	12,900	12,100	11,400	71.6	137.5	12,100	11,900	11,700	9,800			75
80	64.4	139.2	12,400	11,700	11,000	10,400	69.4	134.7	11,700	11,500	11,400	9,800			80
85	62.2	136.2	11,200	10,600	10,100	9,500	67.1	131.6	11,300	11,200	10,600	9,800			85
90	60.0	133.0	10,300	9,700	9,200	8,700	64.8	128.2	10,800	10,200	9,700	9,200			90
95	57.7	129.4	9,400	8,900	8,400	8,000	62.4	124.6	9,900	9,400	8,900	8,500			95
100	55.3	125.6	8,600	8,200	7,700	7,400	59.9	120.5	9,000	8,600	8,200	7,800			100
105	52.9	121.4	7,900	7,500	7,100	6,800	57.3	116.1	8,300	7,900	7,500	7,100			105
110	50.3	116.8	7,200	6,900	6,600	6,200	54.6	111.3	7,600	7,200	6,900	6,600			110
115	47.6	111.8	6,600	6,300	6,000	5,700	51.8	106.0	6,900	6,600	6,300	6,000			115
120	44.8	106.2	6,100	5,800	5,600	5,300	48.8	100.2	6,400	6,100	5,800	5,600			120
125	41.9	100.1	5,600	5,400	5,100	4,900	45.6	93.6	5,800	5,600	5,300	5,100			125
130	38.7	93.3	5,100	4,900	4,700	4,500	42.2	86.2	5,300	5,100	4,900	4,700			130
135	35.2	85.5	4,700	4,500	4,300	4,100	38.4	77.7	4,900	4,700	4,500	4,300			135
140	31.3	76.5	4,300	4,100	4,000	3,800	34.0	67.5	4,400	4,200	4,100	3,900			140
145	26.9	65.8	3,900	3,800	3,600	3,500									145
150	21.4	52.1	3,600	3,500	3,300	3,200									150

MLC90A-1 S-1

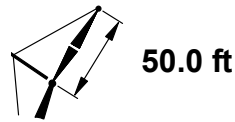
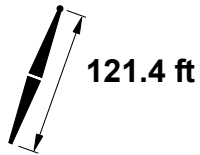


45,400 lb
+
0 lb



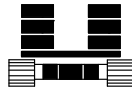
		10°						30°							
				0°	1°	2°	3°			0°	1°	2°	3°		
ft	°	ft	lb	lb	lb	lb	°	ft	lb	lb	lb	lb	ft		
42	80.5	164.6	22,500										42		
44	79.8	164.1	22,400	19,200									44		
46	79.1	163.6	22,300	19,100									46		
48	78.3	163.1	22,200	19,000	16,400								48		
50	77.6	162.5	22,100	18,900	16,300	14,400							50		
55	75.8	161.0	21,300	18,700	16,200	14,200	80.7	156.7	14,300				55		
60	73.9	159.2	18,800	17,400	16,000	14,200	78.8	155.0	13,700	13,500	11,600		60		
65	72.0	157.3	16,700	15,500	14,500	13,500	76.8	153.0	13,200	13,000	11,600	9,600	65		
70	70.1	155.2	14,900	14,000	13,000	12,200	74.8	150.8	12,800	12,500	11,500	9,600	70		
75	68.1	152.9	13,400	12,600	11,800	11,100	72.8	148.4	12,300	12,100	11,500	9,600	75		
80	66.1	150.4	12,200	11,400	10,700	10,100	70.8	145.8	11,900	11,800	11,400	9,600	80		
85	64.1	147.6	11,000	10,400	9,800	9,200	68.7	143.0	11,600	11,000	10,400	9,600	85		
90	62.1	144.7	10,000	9,400	8,900	8,400	66.6	139.9	10,600	10,000	9,500	8,900	90		
95	60.0	141.4	9,100	8,600	8,100	7,700	64.4	136.6	9,700	9,200	8,700	8,200	95		
100	57.8	137.9	8,400	7,900	7,500	7,000	62.2	132.9	8,800	8,400	7,900	7,500	100		
105	55.6	134.1	7,600	7,200	6,800	6,500	59.8	129.0	8,100	7,700	7,300	6,900	105		
110	53.3	130.0	7,000	6,600	6,300	5,900	57.5	124.7	7,400	7,000	6,700	6,300	110		
115	50.9	125.6	6,400	6,100	5,800	5,500	55.0	120.0	6,800	6,400	6,100	5,800	115		
120	48.5	120.7	5,900	5,600	5,300	5,000	52.4	114.9	6,200	5,900	5,600	5,300	120		
125	45.9	115.4	5,400	5,100	4,800	4,600	49.7	109.3	5,700	5,400	5,100	4,900	125		
130	43.2	109.6	4,900	4,700	4,400	4,200	46.8	103.1	5,200	4,900	4,700	4,400	130		
135	40.3	103.2	4,500	4,300	4,100	3,900	43.7	96.2	4,700	4,500	4,300	4,000	135		
140	37.2	96.0	4,100	3,900	3,700	3,500	40.3	88.5	4,300	4,100	3,900	3,700	140		
145	33.8	87.9	3,700	3,600	3,400	3,200	36.6	79.5	3,900	3,700	3,500	3,300	145		
150	30.1	78.5	3,400	3,200	3,100	2,900	32.4	68.9	3,500	3,300	3,200	3,000	150		
155	25.7	67.3	3,100	2,900	2,800	2,700							155		
160	20.4	52.9	2,700	2,600	2,500	2,400							160		

MLC90A-1 S-1

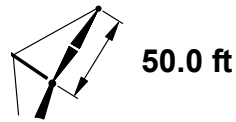
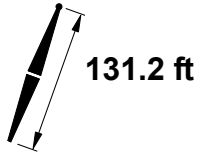


	10°						30°								
			45,400 lb + 0 lb						45,400 lb + 0 lb						
	ft	°	ft	0°	1°	2°	3°	ft	°	ft	0°	1°		2°	3°
44	80.4	174.2	22,400												44
46	79.7	173.8	22,300	19,000											46
48	79.0	173.2	22,200	19,000											48
50	78.3	172.7	22,100	18,900	16,200										50
55	76.6	171.3	21,100	18,700	16,100	14,200									55
60	74.9	169.6	18,600	17,100	15,800	14,100	79.5	165.3	13,900	13,600					60
65	73.1	167.9	16,500	15,200	14,100	13,100	77.6	163.5	13,400	13,200	11,300	9,400			65
70	71.3	165.9	14,700	13,700	12,700	11,800	75.8	161.4	13,000	12,700	11,300	9,400			70
75	69.5	163.7	13,200	12,300	11,500	10,700	73.9	159.2	12,600	12,400	11,300	9,400			75
80	67.6	161.4	11,900	11,100	10,400	9,700	72.0	156.8	12,200	11,900	11,100	9,400			80
85	65.8	158.9	10,800	10,100	9,400	8,800	70.1	154.2	11,500	10,800	10,100	9,400			85
90	63.9	156.1	9,800	9,200	8,600	8,000	68.1	151.3	10,400	9,800	9,200	8,600			90
95	61.9	153.1	8,900	8,300	7,800	7,300	66.1	148.3	9,500	8,900	8,400	7,900			95
100	59.9	149.9	8,100	7,600	7,100	6,700	64.1	144.9	8,600	8,100	7,700	7,200			100
105	57.9	146.4	7,400	6,900	6,500	6,100	62.0	141.3	7,900	7,400	7,000	6,600			105
110	55.8	142.7	6,700	6,300	6,000	5,600	59.8	137.5	7,200	6,800	6,400	6,000			110
115	53.7	138.7	6,100	5,800	5,500	5,100	57.6	133.3	6,600	6,200	5,800	5,500			115
120	51.5	134.3	5,600	5,300	5,000	4,700	55.3	128.7	6,000	5,600	5,300	5,000			120
125	49.2	129.6	5,100	4,800	4,500	4,300	52.9	123.8	5,400	5,100	4,900	4,600			125
130	46.8	124.5	4,700	4,400	4,100	3,900	50.4	118.4	5,000	4,700	4,400	4,200			130
135	44.3	118.9	4,200	4,000	3,800	3,500	47.7	112.5	4,500	4,200	4,000	3,800			135
140	41.7	112.8	3,900	3,600	3,400	3,200	44.9	106.0	4,100	3,800	3,600	3,400			140
145	38.9	106.1	3,500	3,300	3,100	2,900	41.9	98.8	3,700	3,500	3,300	3,100			145
150	35.9	98.6	3,100	3,000	2,800	2,600	38.7	90.6	3,300	3,100	2,900	2,700			150
155	32.6	90.1	2,800	2,700	2,500	2,300	35.0	81.3	2,900	2,800	2,600	2,400			155
160	28.9	80.4	2,500	2,400	2,200	2,100	30.9	70.2	2,600	2,400	2,300	2,100			160
165	24.7	68.7	2,200	2,100	2,000										165

MLC90A-1 S-1

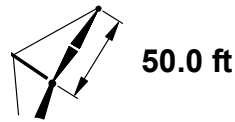
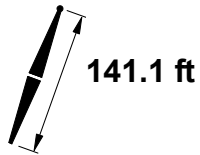


45,400 lb
+
0 lb



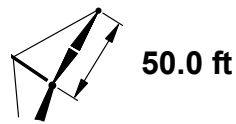
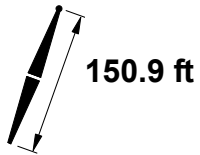
	10°							30°						
	ft	°	ft	0° lb	1° lb	2° lb	3° lb	°	ft	0° lb	1° lb	2° lb	3° lb	ft
44	80.9	184.3	22,300											44
46	80.3	183.9	22,300											46
48	79.6	183.4	22,100	18,900										48
50	79.0	182.9	22,100	18,800	16,200									50
55	77.4	181.5	20,900	18,700	16,100	14,100								55
60	75.7	180.0	18,300	16,800	15,400	14,000	80.1	175.6	14,100					60
65	74.0	178.3	16,300	15,000	13,800	12,700	78.4	173.8	13,600	13,300	11,100			65
70	72.4	176.5	14,500	13,400	12,400	11,500	76.6	171.9	13,200	12,900	11,100	9,200		70
75	70.7	174.4	13,000	12,000	11,200	10,400	74.9	169.9	12,800	12,500	11,000	9,200		75
80	68.9	172.3	11,700	10,900	10,100	9,400	73.1	167.6	12,400	11,700	10,900	9,200		80
85	67.2	169.9	10,600	9,800	9,200	8,500	71.3	165.2	11,300	10,600	9,900	9,200		85
90	65.4	167.3	9,600	8,900	8,300	7,800	69.5	162.5	10,300	9,600	9,000	8,400		90
95	63.6	164.6	8,700	8,100	7,600	7,100	67.6	159.7	9,300	8,700	8,200	7,600		95
100	61.8	161.6	7,900	7,400	6,900	6,400	65.8	156.6	8,500	7,900	7,400	7,000		100
105	59.9	158.4	7,200	6,700	6,300	5,900	63.8	153.3	7,700	7,200	6,800	6,400		105
110	58.0	154.9	6,500	6,100	5,700	5,300	61.8	149.8	7,000	6,600	6,200	5,800		110
115	56.0	151.3	6,000	5,600	5,200	4,900	59.8	145.9	6,400	6,000	5,600	5,300		115
120	54.0	147.3	5,400	5,100	4,700	4,400	57.7	141.8	5,800	5,500	5,100	4,800		120
125	52.0	143.0	4,900	4,600	4,300	4,000	55.6	137.4	5,300	5,000	4,700	4,400		125
130	49.8	138.4	4,500	4,200	3,900	3,600	53.3	132.6	4,800	4,500	4,200	4,000		130
135	47.6	133.5	4,100	3,800	3,500	3,300	51.0	127.4	4,300	4,100	3,800	3,600		135
140	45.3	128.1	3,700	3,400	3,200	3,000	48.5	121.7	3,900	3,700	3,400	3,200		140
145	42.9	122.3	3,300	3,100	2,900	2,700	46.0	115.5	3,500	3,300	3,100	2,900		145
150	40.3	115.9	3,000	2,800	2,600	2,400	43.3	108.8	3,200	3,000	2,800	2,600		150
155	37.6	108.9	2,600	2,500	2,300	2,100	40.3	101.2	2,800	2,600	2,400	2,300		155
160	34.7	101.1	2,400	2,200	2,000		37.2	92.7	2,500	2,300	2,100	2,000		160
165	31.5	92.3	2,100				33.6	83.0	2,200	2,000				165

MLC90A-1 S-1



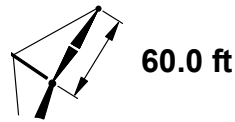
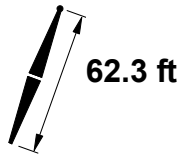
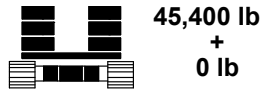
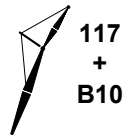
	10°							30°						
	ft	°	ft	lb	lb	lb	lb	°	ft	lb	lb	lb	lb	ft
46	80.8	193.9	22,100											46
48	80.2	193.5	22,000											48
50	79.6	193.0	22,000	18,700										50
55	78.0	191.7	20,600	18,600	16,000									55
60	76.5	190.3	18,100	16,500	15,100	13,800	80.6	185.8	14,200					60
65	74.9	188.7	16,000	14,700	13,400	12,300	79.0	184.2	13,800	13,500				65
70	73.3	187.0	14,300	13,100	12,100	11,100	77.4	182.4	13,300	13,100	10,900	9,100		70
75	71.7	185.1	12,800	11,800	10,800	10,000	75.7	180.4	13,000	12,700	10,800	9,100		75
80	70.1	183.0	11,500	10,600	9,800	9,000	74.1	178.3	12,400	11,500	10,600	9,100		80
85	68.5	180.8	10,300	9,600	8,800	8,200	72.4	176.0	11,100	10,300	9,600	8,900		85
90	66.8	178.4	9,300	8,600	8,000	7,400	70.7	173.6	10,100	9,400	8,700	8,100		90
95	65.1	175.8	8,400	7,800	7,300	6,700	69.0	170.9	9,100	8,500	7,900	7,400		95
100	63.4	173.0	7,600	7,100	6,600	6,100	67.2	168.1	8,300	7,700	7,200	6,700		100
105	61.7	170.0	6,900	6,400	6,000	5,500	65.4	165.0	7,500	7,000	6,500	6,100		105
110	59.9	166.9	6,300	5,800	5,400	5,000	63.6	161.7	6,800	6,400	5,900	5,500		110
115	58.1	163.4	5,700	5,300	4,900	4,500	61.7	158.2	6,200	5,800	5,400	5,000		115
120	56.2	159.8	5,200	4,800	4,400	4,100	59.8	154.4	5,600	5,200	4,900	4,500		120
125	54.3	155.9	4,700	4,300	4,000	3,700	57.8	150.3	5,100	4,700	4,400	4,100		125
130	52.4	151.7	4,200	3,900	3,600	3,300	55.8	146.0	4,600	4,300	4,000	3,700		130
135	50.4	147.2	3,800	3,500	3,300	3,000	53.7	141.3	4,100	3,800	3,600	3,300		135
140	48.3	142.4	3,400	3,200	2,900	2,700	51.5	136.3	3,700	3,500	3,200	2,900		140
145	46.1	137.2	3,100	2,800	2,600	2,400	49.3	130.8	3,300	3,100	2,800	2,600		145
150	43.9	131.6	2,700	2,500	2,300	2,100	46.9	124.9	3,000	2,700	2,500	2,300		150
155	41.5	125.5	2,400	2,200	2,000		44.4	118.5	2,600	2,400	2,200	2,000		155
160	39.0	118.9	2,100				41.7	111.4	2,300	2,100				160
165							38.9	103.6	2,000					165

MLC90A-1 S-1



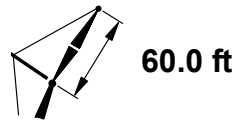
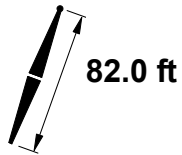
	10°							30°						
	ft	°	ft	0° lb	1° lb	2° lb	3° lb	°	ft	0° lb	1° lb	2° lb	3° lb	ft
48	80.7	203.6	21,900											48
50	80.1	203.1	21,800											50
55	78.6	201.9	20,400	18,400	15,800									55
60	77.2	200.5	17,900	16,200	14,700	13,000								60
65	75.7	199.0	15,800	14,400	13,100	12,000	79.6	194.4	13,900	13,200				65
70	74.2	197.4	14,000	12,800	11,700	10,700	78.1	192.8	13,500	13,100	10,700			70
75	72.7	195.6	12,500	11,500	10,500	9,600	76.5	190.9	13,100	12,500	10,600	8,900		75
80	71.1	193.6	11,200	10,300	9,500	8,700	74.9	188.9	12,200	11,200	10,300	8,900		80
85	69.6	191.5	10,100	9,300	8,500	7,800	73.4	186.8	11,000	10,100	9,300	8,600		85
90	68.0	189.3	9,100	8,400	7,700	7,100	71.8	184.5	9,900	9,100	8,500	7,800		90
95	66.4	186.9	8,200	7,600	7,000	6,400	70.1	182.0	8,900	8,300	7,700	7,100		95
100	64.8	184.3	7,400	6,800	6,300	5,800	68.5	179.3	8,100	7,500	6,900	6,400		100
105	63.2	181.5	6,700	6,200	5,700	5,200	66.8	176.4	7,300	6,800	6,300	5,800		105
110	61.6	178.5	6,100	5,600	5,100	4,700	65.1	173.4	6,600	6,100	5,700	5,200		110
115	59.9	175.3	5,500	5,000	4,600	4,300	63.4	170.1	6,000	5,600	5,100	4,700		115
120	58.2	171.9	4,900	4,500	4,200	3,800	61.6	166.6	5,400	5,000	4,600	4,300		120
125	56.4	168.3	4,400	4,100	3,700	3,400	59.8	162.9	4,900	4,500	4,200	3,800		125
130	54.6	164.5	4,000	3,700	3,400	3,100	57.9	158.9	4,400	4,100	3,700	3,400		130
135	52.8	160.4	3,600	3,300	3,000	2,700	56.0	154.6	3,900	3,600	3,300	3,100		135
140	50.9	156.0	3,200	2,900	2,600	2,400	54.0	150.0	3,500	3,200	3,000	2,700		140
145	48.9	151.3	2,800	2,600	2,300	2,100	52.0	145.1	3,100	2,900	2,600	2,400		145
150	46.9	146.2	2,500	2,300	2,000		49.9	139.9	2,800	2,500	2,300	2,100		150
155	44.8	140.8	2,200	2,000			47.7	134.2	2,400	2,200	2,000			155
160							45.4	128.0	2,100					160

MLC90A-1 S-1



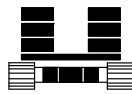
		10°						30°								
		0°				1°		0°				1°				
		lb				lb		lb				lb				
		ft		ft		ft		ft		ft		ft		ft		
		°		°		°		°		°		°		°		
36	80.7	126.0	20,600												36	
38	79.7	125.4	20,300		17,300										38	
40	78.7	124.8	20,200		17,200		14,600								40	
42	77.8	124.2	20,000		17,000		14,500		12,700						42	
44	76.8	123.5	19,800		16,900		14,400		12,600						44	
46	75.8	122.9	19,600		16,700		14,300		12,500						46	
48	74.8	122.1	19,400		16,600		14,200		12,500						48	
50	73.8	121.3	19,300		16,500		14,100		12,400						50	
55	71.3	119.2	18,800		16,200		13,900		12,200	79.3	115.6	12,500	11,900		55	
60	68.7	116.9	18,400		15,900		13,700		12,100	76.6	113.1	11,800	11,300	10,000	9,000	60
65	66.1	114.2	17,900		15,600		13,500		11,900	73.9	110.3	11,200	10,800	9,700	8,600	65
70	63.4	111.2	16,200		15,300		13,300		11,700	71.1	107.2	10,700	10,400	9,300	8,400	70
75	60.6	107.9	14,700		14,100		13,100		11,600	68.2	103.8	10,200	9,900	9,000	8,200	75
80	57.7	104.2	13,400		12,900		12,300		11,400	65.1	100.0	9,800	9,600	8,700	7,900	80
85	54.7	100.1	12,300		11,800		11,300		10,900	62.0	95.7	9,400	9,200	8,400	7,600	85
90	51.5	95.6	11,300		10,900		10,500		10,100	58.7	90.9	9,000	8,900	8,100	7,400	90
95	48.2	90.5	10,400		10,000		9,700		9,300	55.1	85.5	8,700	8,600	7,900	7,200	95
100	44.6	84.7	9,600		9,300		9,000		8,700	51.4	79.3	8,400	8,300	7,600	7,100	100
105	40.8	78.2	8,900		8,600		8,400		8,100	47.2	72.2	8,100	8,100	7,500	6,900	105
110	36.5	70.5	8,300		8,000		7,800		7,500	42.5	63.8	7,900	7,900	7,300	6,800	110
115	31.7	61.4	7,700		7,500		7,300		7,000	37.0	53.3	7,800	7,600	7,200	6,700	115
120	25.8	49.8	7,100		6,900		6,800		6,600	29.6	38.9	7,200	7,000	6,900	6,700	120

MLC90A-1 S-1



	10°							30°						
	ft	°	ft	lb	lb	lb	lb	°	ft	lb	lb	lb	lb	ft
40	80.3	145.2	20,400											40
42	79.5	144.6	20,200	17,100										42
44	78.7	144.1	20,100	17,000	14,400									44
46	77.8	143.5	19,900	16,900	14,400	12,600								46
48	77.0	142.9	19,700	16,800	14,300	12,500								48
50	76.2	142.2	19,600	16,700	14,200	12,400								50
55	74.0	140.4	19,200	16,400	14,000	12,300	80.9	136.4	13,000					55
60	71.9	138.4	18,800	16,200	13,900	12,100	78.7	134.3	12,300	12,100	10,700			60
65	69.7	136.2	17,500	15,900	13,700	12,000	76.4	132.0	11,800	11,500	10,700	8,800		65
70	67.4	133.8	15,700	14,800	13,600	11,900	74.1	129.5	11,300	11,100	10,700	8,800	8,800	70
75	65.1	131.1	14,200	13,500	12,800	11,800	71.7	126.7	10,800	10,600	10,500	8,800		75
80	62.8	128.1	12,900	12,300	11,700	11,100	69.3	123.6	10,400	10,200	10,100	8,800		80
85	60.4	124.8	11,800	11,200	10,700	10,200	66.8	120.2	10,000	9,900	9,700	8,800		85
90	57.9	121.3	10,800	10,300	9,800	9,400	64.2	116.5	9,600	9,500	9,400	8,800	8,800	90
95	55.4	117.4	9,900	9,500	9,100	8,700	61.6	112.4	9,300	9,200	9,100	8,800		95
100	52.7	113.1	9,100	8,800	8,400	8,000	58.8	107.9	9,000	8,900	8,800	8,400		100
105	50.0	108.3	8,400	8,100	7,700	7,400	55.9	102.9	8,700	8,500	8,100	7,800		105
110	47.1	103.1	7,800	7,500	7,200	6,900	52.8	97.4	8,100	7,800	7,500	7,200		110
115	44.0	97.4	7,200	6,900	6,700	6,400	49.6	91.3	7,500	7,200	7,000	6,700		115
120	40.7	90.9	6,700	6,400	6,200	5,900	46.0	84.3	6,900	6,700	6,400	6,200		120
125	37.2	83.5	6,200	5,900	5,700	5,500	42.1	76.2	6,400	6,200	5,900	5,700		125
130	33.2	75.0	5,700	5,500	5,300	5,100	37.7	66.7	5,900	5,700	5,500	5,300		130
135	28.7	64.9	5,300	5,100	4,900	4,800	32.3	54.8	5,400	5,200	5,100	4,900		135
140	23.1	52.0	4,900	4,700	4,600	4,400								140

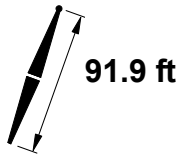
MLC90A-1 S-1



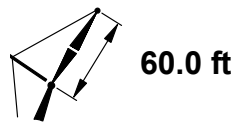
45,400 lb
+
0 lb



360°



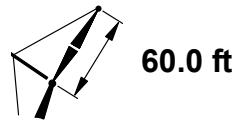
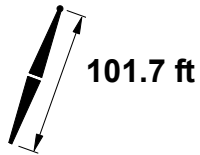
91.9 ft



60.0 ft

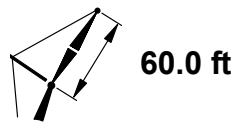
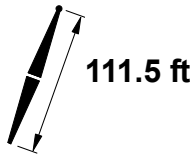
	10°							30°						
				45,400 lb + 0 lb							45,400 lb + 0 lb			
	ft	°	ft	0° lb	1° lb	2° lb	3° lb	°	ft	0° lb	1° lb	2° lb	3° lb	ft
40	81.0	155.3	20,300											40
42	80.2	154.8	20,200											42
44	79.4	154.3	20,100	17,000										44
46	78.6	153.7	19,900	16,900	14,400									46
48	77.9	153.1	19,800	16,800	14,300	12,500								48
50	77.1	152.5	19,700	16,700	14,300	12,400								50
55	75.1	150.9	19,300	16,500	14,100	12,300								55
60	73.1	149.0	19,000	16,200	13,900	12,200	79.5	144.8	12,500	12,300				60
65	71.1	147.0	17,300	16,000	13,800	12,000	77.4	142.7	12,000	11,800	10,400	8,600		65
70	69.0	144.7	15,500	14,600	13,600	11,900	75.3	140.3	11,500	11,300	10,400	8,600		70
75	66.9	142.2	14,000	13,200	12,500	11,800	73.1	137.7	11,100	10,900	10,300	8,600		75
80	64.8	139.5	12,800	12,100	11,400	10,800	70.9	134.9	10,600	10,500	10,300	8,600		80
85	62.6	136.5	11,600	11,000	10,400	9,900	68.6	131.8	10,300	10,100	10,000	8,600		85
90	60.3	133.3	10,600	10,100	9,600	9,100	66.3	128.5	9,900	9,800	9,600	8,600		90
95	58.0	129.8	9,800	9,300	8,800	8,400	63.9	124.8	9,600	9,500	9,300	8,600		95
100	55.7	125.9	9,000	8,500	8,100	7,700	61.4	120.8	9,300	9,000	8,600	8,200		100
105	53.2	121.7	8,300	7,900	7,500	7,200	58.9	116.4	8,700	8,300	8,000	7,600		105
110	50.7	117.2	7,600	7,300	6,900	6,600	56.2	111.6	8,000	7,700	7,300	7,000		110
115	48.0	112.2	7,000	6,700	6,400	6,100	53.4	106.3	7,400	7,100	6,800	6,500		115
120	45.2	106.7	6,500	6,200	6,000	5,700	50.4	100.5	6,800	6,500	6,300	6,000		120
125	42.3	100.6	6,000	5,800	5,500	5,300	47.2	94.0	6,300	6,000	5,800	5,600		125
130	39.1	93.7	5,500	5,300	5,100	4,900	43.8	86.6	5,800	5,600	5,300	5,100		130
135	35.6	86.0	5,100	4,900	4,700	4,500	40.0	78.1	5,300	5,100	4,900	4,700		135
140	31.8	77.1	4,700	4,600	4,400	4,200	35.7	68.1	4,900	4,700	4,500	4,400		140
145	27.4	66.5	4,400	4,200	4,100	3,900	30.4	55.5	4,400	4,300	4,100	4,000		145
150	22.0	53.0	4,000	3,900	3,700	3,600								150

MLC90A-1 S-1



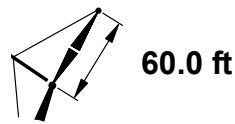
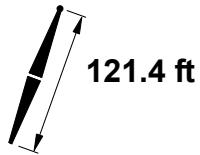
	10°							30°						
	ft	°	ft	0° lb	1° lb	2° lb	3° lb	°	ft	0° lb	1° lb	2° lb	3° lb	ft
42	80.8	164.9	20,200											42
44	80.1	164.4	20,100											44
46	79.4	163.9	20,000	16,900										46
48	78.6	163.3	19,800	16,800	14,300									48
50	77.9	162.8	19,700	16,700	14,200	12,400								50
55	76.0	161.2	19,400	16,500	14,000	12,300								55
60	74.2	159.5	19,100	16,300	13,900	12,100	80.2	155.1	12,700					60
65	72.3	157.6	17,100	15,900	13,800	12,100	78.2	153.2	12,200	12,000	10,100			65
70	70.4	155.5	15,300	14,300	13,400	11,900	76.3	151.0	11,700	11,500	10,100	8,400		70
75	68.4	153.2	13,800	12,900	12,200	11,400	74.3	148.6	11,300	11,100	10,100	8,300		75
80	66.5	150.7	12,500	11,800	11,100	10,400	72.2	146.0	10,900	10,700	10,100	8,300		80
85	64.4	148.0	11,400	10,700	10,100	9,500	70.1	143.2	10,500	10,300	10,100	8,300		85
90	62.4	145.0	10,400	9,800	9,300	8,800	68.0	140.1	10,200	10,000	9,900	8,300		90
95	60.3	141.8	9,500	9,000	8,500	8,000	65.8	136.8	9,800	9,600	9,100	8,300		95
100	58.1	138.3	8,700	8,300	7,800	7,400	63.6	133.2	9,300	8,800	8,400	7,900		100
105	55.9	134.5	8,000	7,600	7,200	6,800	61.3	129.2	8,500	8,100	7,700	7,300		105
110	53.6	130.4	7,400	7,000	6,600	6,300	58.9	124.9	7,800	7,400	7,100	6,700		110
115	51.3	125.9	6,800	6,400	6,100	5,800	56.4	120.3	7,200	6,900	6,500	6,200		115
120	48.8	121.1	6,200	5,900	5,700	5,400	53.8	115.2	6,600	6,300	6,000	5,700		120
125	46.3	115.8	5,700	5,500	5,200	5,000	51.1	109.6	6,100	5,800	5,500	5,300		125
130	43.6	110.0	5,300	5,000	4,800	4,600	48.2	103.4	5,600	5,300	5,100	4,900		130
135	40.7	103.6	4,900	4,700	4,400	4,200	45.2	96.5	5,100	4,900	4,700	4,500		135
140	37.6	96.5	4,500	4,300	4,100	3,900	41.8	88.8	4,700	4,500	4,300	4,100		140
145	34.3	88.4	4,100	3,900	3,800	3,600	38.1	79.9	4,300	4,100	3,900	3,800		145
150	30.5	79.1	3,800	3,600	3,500	3,300	33.9	69.3	3,900	3,700	3,600	3,400		150
155	26.2	68.0	3,400	3,300	3,200	3,000								155
160	20.9	53.9	3,100	3,000	2,900	2,800								160

MLC90A-1 S-1



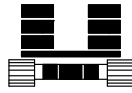
	10°							30°						
			45,400 lb + 0 lb						45,400 lb + 0 lb					
	ft	°	ft	0° lb	1° lb	2° lb	3° lb	°	ft	0° lb	1° lb	2° lb	3° lb	ft
44	80.7	174.5	20,000											44
46	80.0	174.0	20,000	16,800										46
48	79.3	173.5	19,800	16,700										48
50	78.6	173.0	19,700	16,700	14,200									50
55	76.9	171.5	19,500	16,500	14,100	12,200								55
60	75.1	169.9	18,900	16,300	13,900	12,100	80.8	165.4	12,900					60
65	73.4	168.1	16,800	15,600	13,800	12,000	79.0	163.6	12,400	12,100	9,900			65
70	71.6	166.2	15,100	14,000	13,100	12,000	77.1	161.6	11,900	11,700	9,800	8,100		70
75	69.8	164.0	13,600	12,700	11,800	11,100	75.3	159.4	11,500	11,300	9,800	8,100		75
80	67.9	161.7	12,300	11,500	10,800	10,100	73.4	156.9	11,100	10,900	9,800	8,100		80
85	66.1	159.2	11,200	10,500	9,800	9,200	71.4	154.3	10,700	10,600	9,800	8,100		85
90	64.2	156.4	10,200	9,500	9,000	8,400	69.5	151.5	10,400	10,200	9,700	8,100		90
95	62.2	153.4	9,300	8,700	8,200	7,700	67.5	148.4	10,000	9,400	8,900	8,100		95
100	60.2	150.2	8,500	8,000	7,500	7,100	65.4	145.1	9,100	8,600	8,100	7,700		100
105	58.2	146.8	7,800	7,300	6,900	6,500	63.3	141.5	8,300	7,900	7,500	7,100		105
110	56.1	143.0	7,100	6,700	6,400	6,000	61.2	137.6	7,600	7,200	6,900	6,500		110
115	54.0	139.0	6,500	6,200	5,800	5,500	58.9	133.4	7,000	6,700	6,300	6,000		115
120	51.8	134.7	6,000	5,700	5,400	5,100	56.6	128.9	6,400	6,100	5,800	5,500		120
125	49.5	130.0	5,500	5,200	4,900	4,700	54.2	124.0	5,900	5,600	5,300	5,000		125
130	47.1	124.9	5,100	4,800	4,500	4,300	51.7	118.6	5,400	5,100	4,900	4,600		130
135	44.7	119.3	4,600	4,400	4,200	3,900	49.1	112.7	5,000	4,700	4,500	4,200		135
140	42.0	113.2	4,300	4,000	3,800	3,600	46.3	106.2	4,500	4,300	4,100	3,900		140
145	39.2	106.5	3,900	3,700	3,500	3,300	43.3	99.0	4,100	3,900	3,700	3,500		145
150	36.3	99.1	3,600	3,400	3,200	3,000	40.1	90.9	3,700	3,600	3,400	3,200		150
155	33.0	90.7	3,200	3,100	2,900	2,800	36.4	81.6	3,400	3,200	3,100	2,900		155
160	29.4	81.0	2,900	2,800	2,600	2,500	32.3	70.5	3,000	2,900	2,700	2,600		160
165	25.2	69.4	2,600	2,500	2,400	2,300								165

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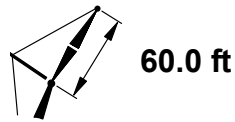
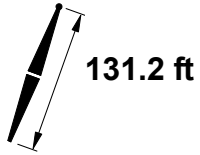


	10°							30°							
	ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft
46	80.5	184.1	19,900												46
48	79.9	183.6	19,800	16,700											48
50	79.2	183.1	19,700	16,600											50
55	77.6	181.8	19,500	16,500	14,000	12,200									55
60	76.0	180.3	18,700	16,300	13,900	12,100									60
65	74.3	178.6	16,600	15,300	13,700	12,000	79.6	173.9	12,600	12,100					65
70	72.6	176.7	14,800	13,700	12,700	11,800	77.9	172.0	12,100	11,900	9,700	8,000			70
75	70.9	174.7	13,300	12,400	11,500	10,700	76.1	170.0	11,700	11,500	9,600	8,000			75
80	69.2	172.5	12,000	11,200	10,400	9,700	74.4	167.7	11,300	11,100	9,600	8,000			80
85	67.5	170.2	10,900	10,200	9,500	8,900	72.6	165.3	10,900	10,800	9,600	8,000			85
90	65.7	167.6	9,900	9,300	8,700	8,100	70.8	162.6	10,600	10,000	9,400	8,000			90
95	63.9	164.9	9,000	8,400	7,900	7,400	68.9	159.8	9,800	9,200	8,600	8,000			95
100	62.1	161.9	8,200	7,700	7,200	6,800	67.0	156.7	8,900	8,400	7,900	7,400			100
105	60.2	158.7	7,500	7,100	6,600	6,200	65.1	153.4	8,100	7,700	7,200	6,800			105
110	58.3	155.3	6,900	6,500	6,100	5,700	63.1	149.9	7,400	7,000	6,600	6,200			110
115	56.3	151.6	6,300	5,900	5,500	5,200	61.1	146.0	6,800	6,400	6,000	5,700			115
120	54.3	147.6	5,800	5,400	5,100	4,800	59.0	141.9	6,200	5,900	5,500	5,200			120
125	52.3	143.4	5,300	4,900	4,600	4,400	56.8	137.5	5,700	5,400	5,100	4,800			125
130	50.1	138.8	4,800	4,500	4,200	4,000	54.6	132.7	5,200	4,900	4,600	4,400			130
135	47.9	133.9	4,400	4,100	3,900	3,600	52.3	127.5	4,700	4,500	4,200	4,000			135
140	45.6	128.5	4,000	3,800	3,500	3,300	49.8	121.9	4,300	4,100	3,800	3,600			140
145	43.2	122.7	3,600	3,400	3,200	3,000	47.3	115.7	3,900	3,700	3,500	3,300			145
150	40.6	116.4	3,300	3,100	2,900	2,700	44.5	108.9	3,500	3,300	3,100	2,900			150
155	37.9	109.4	3,000	2,800	2,600	2,400	41.6	101.4	3,200	3,000	2,800	2,600			155
160	35.0	101.6	2,700	2,500	2,400	2,200	38.5	92.9	2,900	2,700	2,500	2,400			160
165	31.9	92.9	2,400	2,200	2,100	2,000	34.9	83.2	2,500	2,400	2,200	2,100			165
170	28.3	82.8	2,100	2,000			30.9	71.6	2,200	2,100					170

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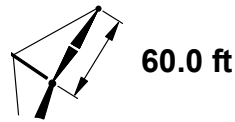
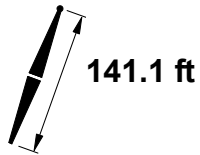
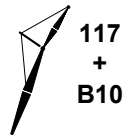


45,400 lb
+
0 lb



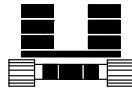
	10°							30°						
	ft	°	ft	0° lb	1° lb	2° lb	3° lb	°	ft	0° lb	1° lb	2° lb	3° lb	ft
48	80.4	193.7	19,700											48
50	79.8	193.3	19,600	16,500										50
55	78.3	192.0	19,400	16,300	13,900									55
60	76.7	190.5	18,500	16,200	13,800	12,000								60
65	75.1	189.0	16,400	15,000	13,700	12,000	80.2	184.2	12,700					65
70	73.6	187.2	14,600	13,500	12,400	11,500	78.6	182.5	12,300	11,800	9,400			70
75	72.0	185.3	13,100	12,100	11,200	10,400	76.9	180.5	11,900	11,600	9,400	7,800		75
80	70.3	183.3	11,800	11,000	10,200	9,400	75.3	178.4	11,500	11,300	9,400	7,800		80
85	68.7	181.1	10,700	9,900	9,200	8,600	73.6	176.1	11,100	10,800	9,300	7,800		85
90	67.1	178.7	9,700	9,000	8,400	7,800	71.9	173.6	10,600	9,800	9,200	7,800		90
95	65.4	176.1	8,800	8,200	7,600	7,100	70.1	171.0	9,600	9,000	8,400	7,800		95
100	63.7	173.3	8,000	7,500	7,000	6,500	68.4	168.1	8,700	8,200	7,700	7,100		100
105	61.9	170.3	7,300	6,800	6,400	5,900	66.6	165.1	8,000	7,500	7,000	6,500		105
110	60.2	167.2	6,700	6,200	5,800	5,400	64.8	161.8	7,300	6,800	6,400	6,000		110
115	58.4	163.8	6,100	5,700	5,300	4,900	62.9	158.3	6,700	6,200	5,800	5,500		115
120	56.5	160.1	5,600	5,200	4,800	4,500	61.0	154.5	6,100	5,700	5,300	5,000		120
125	54.6	156.2	5,100	4,700	4,400	4,100	59.0	150.4	5,500	5,200	4,900	4,500		125
130	52.7	152.1	4,600	4,300	4,000	3,700	57.0	146.1	5,000	4,700	4,400	4,100		130
135	50.7	147.6	4,200	3,900	3,600	3,400	54.9	141.4	4,600	4,300	4,000	3,800		135
140	48.6	142.8	3,800	3,600	3,300	3,100	52.7	136.4	4,200	3,900	3,600	3,400		140
145	46.4	137.6	3,400	3,200	3,000	2,800	50.5	130.9	3,800	3,500	3,300	3,100		145
150	44.2	132.0	3,100	2,900	2,700	2,500	48.1	125.0	3,400	3,200	3,000	2,800		150
155	41.8	125.9	2,800	2,600	2,400	2,200	45.6	118.6	3,100	2,800	2,600	2,500		155
160	39.4	119.3	2,500	2,300	2,100	2,000	42.9	111.5	2,700	2,500	2,400	2,200		160
165	36.7	112.1	2,200	2,100			40.1	103.7	2,400	2,200	2,100			165
170	33.9	104.0	2,000				37.0	94.9	2,100					170

MLC90A-1 S-1



	10°							30°							
	ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft	°	ft	0° lb	1° lb	2° lb	3° lb	ft
48	80.9	203.8	19,600												48
50	80.3	203.4	19,500												50
55	78.9	202.1	19,300	16,200	13,800										55
60	77.4	200.8	18,200	16,100	13,700	11,700									60
65	75.9	199.3	16,200	14,700	13,500	11,600	80.7	194.5	12,900						65
70	74.4	197.6	14,400	13,200	12,100	11,100	79.2	192.8	12,400	11,500					70
75	72.9	195.9	12,900	11,800	10,900	10,000	77.6	191.0	12,000	11,400	9,300	7,700			75
80	71.4	193.9	11,600	10,700	9,800	9,100	76.1	189.0	11,700	11,300	9,200	7,700			80
85	69.8	191.8	10,500	9,600	8,900	8,200	74.5	186.8	11,300	10,600	9,200	7,700			85
90	68.3	189.6	9,500	8,700	8,100	7,500	72.9	184.5	10,400	9,600	8,900	7,700			90
95	66.7	187.1	8,600	7,900	7,300	6,800	71.2	182.0	9,400	8,800	8,100	7,500			95
100	65.1	184.6	7,800	7,200	6,700	6,200	69.6	179.3	8,600	8,000	7,400	6,900			100
105	63.5	181.8	7,100	6,500	6,100	5,600	67.9	176.5	7,800	7,200	6,700	6,300			105
110	61.8	178.8	6,400	6,000	5,500	5,100	66.2	173.4	7,100	6,600	6,100	5,700			110
115	60.1	175.6	5,800	5,400	5,000	4,600	64.5	170.1	6,500	6,000	5,600	5,200			115
120	58.4	172.3	5,300	4,900	4,500	4,200	62.7	166.6	5,900	5,500	5,100	4,700			120
125	56.7	168.7	4,800	4,500	4,100	3,800	60.9	162.9	5,300	5,000	4,600	4,300			125
130	54.9	164.8	4,400	4,000	3,700	3,400	59.0	158.9	4,800	4,500	4,200	3,900			130
135	53.0	160.7	3,900	3,600	3,400	3,100	57.1	154.7	4,400	4,100	3,800	3,500			135
140	51.1	156.3	3,600	3,300	3,000	2,800	55.1	150.1	4,000	3,700	3,400	3,100			140
145	49.2	151.6	3,200	2,900	2,700	2,500	53.1	145.2	3,600	3,300	3,000	2,800			145
150	47.2	146.6	2,900	2,600	2,400	2,200	51.0	139.9	3,200	3,000	2,700	2,500			150
155	45.1	141.2	2,500	2,300	2,100		48.8	134.2	2,800	2,600	2,400	2,200			155
160	42.9	135.4	2,200	2,000			46.5	128.1	2,500	2,300	2,100				160
165	40.6	129.1	2,000				44.1	121.4	2,200	2,000					165

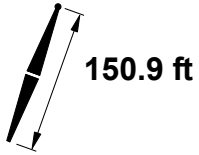
MLC90A-1 S-1



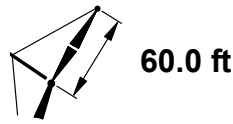
45,400 lb
+
0 lb



360°



150.9 ft



60.0 ft

	10°							30°						
			45,400 lb + 0 lb						45,400 lb + 0 lb					
	ft	°	ft	0° lb	1° lb	2° lb	3° lb	°	ft	0° lb	1° lb	2° lb	3° lb	ft
50	80.8	213.4	19,400											50
55	79.4	212.3	19,200	16,200										55
60	78.0	211.0	18,000	16,000	13,500	10,700								60
65	76.6	209.6	15,900	14,400	13,100	10,700								65
70	75.2	208.0	14,200	12,900	11,800	10,700	79.7	203.1	12,600	11,200				70
75	73.7	206.3	12,700	11,600	10,600	9,700	78.2	201.4	12,200	11,200	9,100			75
80	72.3	204.5	11,400	10,400	9,500	8,700	76.8	199.5	11,800	11,100	9,100	7,500		80
85	70.8	202.5	10,200	9,400	8,600	7,900	75.3	197.4	11,300	10,400	9,000	7,500		85
90	69.4	200.4	9,200	8,500	7,800	7,100	73.8	195.3	10,200	9,400	8,700	7,500		90
95	67.9	198.1	8,300	7,700	7,000	6,500	72.2	192.9	9,200	8,500	7,900	7,300		95
100	66.4	195.6	7,500	6,900	6,400	5,900	70.7	190.4	8,400	7,700	7,200	6,600		100
105	64.8	193.0	6,800	6,300	5,800	5,300	69.1	187.7	7,600	7,000	6,500	6,000		105
110	63.3	190.2	6,200	5,700	5,200	4,800	67.5	184.8	6,900	6,400	5,900	5,400		110
115	61.7	187.3	5,600	5,100	4,700	4,300	65.9	181.8	6,300	5,800	5,400	4,900		115
120	60.1	184.1	5,100	4,700	4,300	3,900	64.2	178.5	5,700	5,300	4,800	4,500		120
125	58.5	180.8	4,600	4,200	3,800	3,500	62.5	175.0	5,100	4,800	4,400	4,000		125
130	56.8	177.2	4,100	3,800	3,400	3,100	60.8	171.3	4,700	4,300	4,000	3,600		130
135	55.1	173.4	3,700	3,400	3,100	2,800	59.1	167.4	4,200	3,900	3,500	3,200		135
140	53.4	169.3	3,300	3,000	2,700	2,500	57.2	163.2	3,800	3,500	3,200	2,900		140
145	51.6	165.0	3,000	2,700	2,400	2,200	55.4	158.7	3,400	3,100	2,800	2,600		145
150	49.7	160.5	2,600	2,400	2,100		53.5	154.0	3,000	2,700	2,500	2,300		150
155	47.8	155.6	2,300	2,100			51.5	148.8	2,700	2,400	2,200	2,000		155
160	45.9	150.3	2,000				49.4	143.3	2,300	2,100				160
165							47.3	137.4	2,000					165