


# Liftcrane Boom Capacities

**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**


## MLC80A-1 SERIES 1


 **LIFTING CAPACITIES:** 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 and 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.


Upper boom point capacity for liftcrane service with single part whip line from Drum 3 is 20,000 lb. When Drum 1 or Drum 2 is used, capacity with single part whip line is 27,600 lb. In all cases, upper boom point capacities cannot exceed those listed for main boom capacity.

Weight of all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom point sheaves, is considered part of load. Boom is 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. 80121888**, Wire Rope Specifications chart **No. 9775-A**, Counterweight Arrangements chart **No. 9769-A**, and Wind Conditions chart **No. 9774-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.

 **BOOM POINT ELEVATION:** Boom point elevation is vertical distance from barge deck to centerline of boom 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.

Consult chart **No. 9785-A** when Jib No. 117 is attached.

| Upper Boom Point Deduct  |
|--|
| Deduct 600 lb from capacities when upper boom point is attached. Deduct does not apply to 62.3 ft boom length. |

| Third Line Deduct   |
|---|
| Deduct 300 lb from capacities when boom top is equipped with optional 3rd sheave wire rope guide. |

| Deduct From Capacities When Jib No. 117 Is Attached   |             |
|---|-------------|
| Jib Length (ft)   | Deduct (lb) |
| 30.0  | 4,500       |
| 40.0  | 5,300       |
| 50.0  | 6,200       |
| 60.0  | 7,400       |
| Weight of jib and 700 lb suspended beneath jib point have been included in determination of deduct. |             |

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 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.

Combined weight beneath boom point sheaves must not exceed block weight shown.

**Table 1**

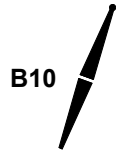
| Boom Length<br>(ft) | Over End or<br>Side of Crawlers |         |
|---------------------|---------------------------------|---------|
|                     | Machine List                    |         |
|                     | 0°                              | 1° - 3° |
|                     | Block Weight (lb)               |         |
| 62.3 - 121.4        | 3,800                           | 3,800   |
| 131.2               | 3,800                           | 2,650   |
| 141.1               | 2,650                           | 700     |
| 150.9               | 700                             | 700     |
| 160.8               | 700                             | #       |

**Table 2**

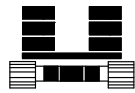
| Boom Length<br>(ft) | Over End of<br>Blocked Crawlers |         |
|---------------------|---------------------------------|---------|
|                     | Machine List                    |         |
|                     | 0°                              | 1° - 3° |
|                     | Block Weight (lb)               |         |
| 62.3 - 121.4        | 3,800                           | 3,800   |
| 131.2               | 3,800                           | 2,650   |
| 141.1               | 2,650                           | 700     |
| 150.9               | 700                             | 700     |
| 160.8 - 170.6       | 700                             | #       |
| 180.4               | #                               | #       |

**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



Boom No. B10:290



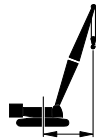
Crane Counterweight  
+  
Carbody Counterweight



360 Degree Rating



Boom Length



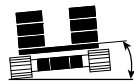
Operating Radius  
(see page 1)



Boom Angle  
(see page 1)



Boom Point Elevation  
(see page 1)

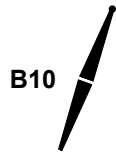


Machine List



Lifting Capacities  
(see page 1)

# MLC80A-1 S-1



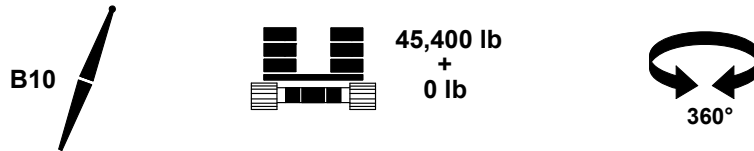
| 62.3 ft |      |      |          |          |          |          |    |    |
|---------|------|------|----------|----------|----------|----------|----|----|
| ft      | °    | ft   | 0°<br>lb | 1°<br>lb | 2°<br>lb | 3°<br>lb | ft |    |
| 15      | 80.3 | 68.3 | 155,600  |          |          |          |    | 15 |
| 16      | 79.3 | 68.1 | 137,000  | 118,900  |          |          |    | 16 |
| 17      | 78.4 | 67.8 | 122,300  | 107,500  | 95,600   |          |    | 17 |
| 18      | 77.4 | 67.6 | 110,300  | 98,000   | 88,000   | 79,600   |    | 18 |
| 19      | 76.5 | 67.4 | 100,400  | 90,000   | 81,400   | 74,100   |    | 19 |
| 20      | 75.5 | 67.1 | 92,100   | 83,200   | 75,700   | 69,200   |    | 20 |
| 22      | 73.6 | 66.5 | 78,800   | 72,100   | 66,300   | 61,200   |    | 22 |
| 24      | 71.7 | 65.9 | 68,800   | 63,500   | 58,800   | 54,700   |    | 24 |
| 26      | 69.7 | 65.2 | 60,900   | 56,600   | 52,800   | 49,400   |    | 26 |
| 28      | 67.8 | 64.4 | 54,500   | 51,000   | 47,800   | 45,000   |    | 28 |
| 30      | 65.8 | 63.5 | 49,200   | 46,300   | 43,700   | 41,200   |    | 30 |
| 32      | 63.7 | 62.5 | 44,800   | 42,400   | 40,100   | 38,000   |    | 32 |
| 34      | 61.6 | 61.4 | 41,100   | 39,000   | 37,000   | 35,200   |    | 34 |
| 36      | 59.5 | 60.3 | 37,900   | 36,100   | 34,300   | 32,800   |    | 36 |
| 38      | 57.3 | 59.0 | 35,100   | 33,500   | 32,000   | 30,600   |    | 38 |
| 40      | 55.1 | 57.6 | 32,600   | 31,200   | 29,900   | 28,700   |    | 40 |
| 42      | 52.8 | 56.1 | 30,500   | 29,200   | 28,000   | 26,900   |    | 42 |
| 44      | 50.4 | 54.5 | 28,500   | 27,400   | 26,400   | 25,400   |    | 44 |
| 46      | 48.0 | 52.7 | 26,800   | 25,800   | 24,900   | 24,000   |    | 46 |
| 48      | 45.4 | 50.8 | 25,200   | 24,300   | 23,500   | 22,700   |    | 48 |
| 50      | 42.7 | 48.7 | 23,800   | 23,000   | 22,300   | 21,500   |    | 50 |
| 55      | 35.3 | 42.4 | 20,700   | 20,200   | 19,600   | 19,000   |    | 55 |
| 60      | 26.1 | 33.7 | 18,300   | 17,800   | 17,400   | 17,000   |    | 60 |

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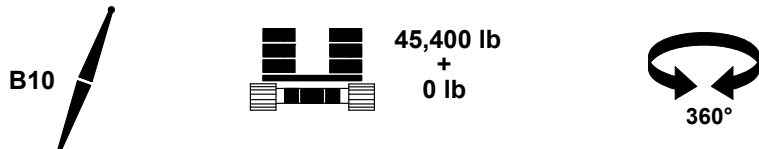
| ft | °    | ft   | 0°<br>lb | 1°<br>lb | 2°<br>lb | 3°<br>lb | ft |  |
|----|------|------|----------|----------|----------|----------|----|--|
| 16 | 80.8 | 78.1 | 137,400  |          |          |          | 16 |  |
| 17 | 80.0 | 77.9 | 122,700  | 106,100  |          |          | 17 |  |
| 18 | 79.2 | 77.7 | 110,700  | 96,900   |          |          | 18 |  |
| 19 | 78.4 | 77.5 | 100,800  | 89,100   | 79,600   |          | 19 |  |
| 20 | 77.6 | 77.3 | 92,500   | 82,400   | 74,200   | 67,200   | 20 |  |
| 22 | 75.9 | 76.8 | 79,200   | 71,600   | 65,100   | 59,600   | 22 |  |
| 24 | 74.3 | 76.2 | 69,100   | 63,100   | 58,000   | 53,500   | 24 |  |
| 26 | 72.6 | 75.6 | 61,200   | 56,400   | 52,200   | 48,400   | 26 |  |
| 28 | 70.9 | 74.9 | 54,800   | 50,900   | 47,300   | 44,200   | 28 |  |
| 30 | 69.2 | 74.2 | 49,600   | 46,200   | 43,300   | 40,600   | 30 |  |
| 32 | 67.5 | 73.3 | 45,200   | 42,300   | 39,800   | 37,500   | 32 |  |
| 34 | 65.8 | 72.5 | 41,400   | 39,000   | 36,800   | 34,800   | 34 |  |
| 36 | 64.0 | 71.5 | 38,200   | 36,100   | 34,200   | 32,400   | 36 |  |
| 38 | 62.2 | 70.5 | 35,400   | 33,600   | 31,900   | 30,300   | 38 |  |
| 40 | 60.4 | 69.3 | 32,900   | 31,300   | 29,800   | 28,400   | 40 |  |
| 42 | 58.6 | 68.1 | 30,800   | 29,300   | 28,000   | 26,700   | 42 |  |
| 44 | 56.7 | 66.8 | 28,800   | 27,600   | 26,300   | 25,200   | 44 |  |
| 46 | 54.7 | 65.4 | 27,100   | 25,900   | 24,900   | 23,800   | 46 |  |
| 48 | 52.7 | 63.9 | 25,500   | 24,500   | 23,500   | 22,600   | 48 |  |
| 50 | 50.7 | 62.3 | 24,100   | 23,200   | 22,300   | 21,400   | 50 |  |
| 55 | 45.3 | 57.7 | 21,100   | 20,300   | 19,600   | 19,000   | 55 |  |
| 60 | 39.3 | 52.1 | 18,600   | 18,000   | 17,500   | 16,900   | 60 |  |
| 65 | 32.5 | 45.0 | 16,600   | 16,100   | 15,700   | 15,200   | 65 |  |
| 70 | 23.9 | 35.5 | 14,800   | 14,500   | 14,200   | 13,800   | 70 |  |

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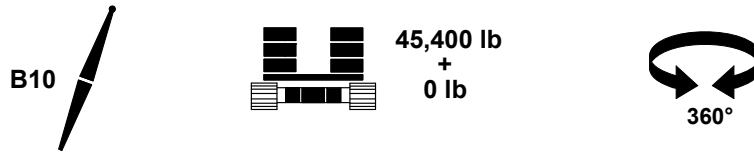
| 82.0 ft |      |      |          |          |          |          |    |  |
|---------|------|------|----------|----------|----------|----------|----|--|
| ft      | °    | ft   | 0°<br>lb | 1°<br>lb | 2°<br>lb | 3°<br>lb | ft |  |
| 18      | 80.5 | 87.7 | 110,700  |          |          |          | 18 |  |
| 19      | 79.8 | 87.5 | 100,800  | 87,800   |          |          | 19 |  |
| 20      | 79.1 | 87.3 | 92,400   | 81,300   |          |          | 20 |  |
| 22      | 77.6 | 86.9 | 79,100   | 70,700   | 63,600   | 57,700   | 22 |  |
| 24      | 76.2 | 86.4 | 69,000   | 62,400   | 56,700   | 51,900   | 24 |  |
| 26      | 74.8 | 85.9 | 61,100   | 55,700   | 51,100   | 47,000   | 26 |  |
| 28      | 73.3 | 85.3 | 54,700   | 50,300   | 46,400   | 43,000   | 28 |  |
| 30      | 71.8 | 84.6 | 49,500   | 45,700   | 42,400   | 39,500   | 30 |  |
| 32      | 70.4 | 83.9 | 45,000   | 41,900   | 39,000   | 36,500   | 32 |  |
| 34      | 68.9 | 83.2 | 41,300   | 38,600   | 36,100   | 33,900   | 34 |  |
| 36      | 67.3 | 82.3 | 38,100   | 35,700   | 33,500   | 31,600   | 36 |  |
| 38      | 65.8 | 81.4 | 35,300   | 33,200   | 31,300   | 29,500   | 38 |  |
| 40      | 64.3 | 80.5 | 32,800   | 31,000   | 29,300   | 27,700   | 40 |  |
| 42      | 62.7 | 79.5 | 30,600   | 29,000   | 27,500   | 26,100   | 42 |  |
| 44      | 61.1 | 78.4 | 28,700   | 27,200   | 25,900   | 24,600   | 44 |  |
| 46      | 59.5 | 77.2 | 26,900   | 25,600   | 24,400   | 23,200   | 46 |  |
| 48      | 57.8 | 76.0 | 25,400   | 24,200   | 23,100   | 22,000   | 48 |  |
| 50      | 56.2 | 74.6 | 23,900   | 22,900   | 21,800   | 20,900   | 50 |  |
| 55      | 51.8 | 70.9 | 20,900   | 20,000   | 19,200   | 18,500   | 55 |  |
| 60      | 47.2 | 66.6 | 18,400   | 17,700   | 17,100   | 16,500   | 60 |  |
| 65      | 42.2 | 61.4 | 16,400   | 15,800   | 15,300   | 14,800   | 65 |  |
| 70      | 36.6 | 55.2 | 14,700   | 14,200   | 13,800   | 13,400   | 70 |  |
| 75      | 30.2 | 47.5 | 13,200   | 12,800   | 12,500   | 12,100   | 75 |  |
| 80      | 22.1 | 37.0 | 11,900   | 11,600   | 11,400   | 11,100   | 80 |  |

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| ft | °    | ft   | 0°<br>lb | 1°<br>lb | 2°<br>lb | 3°<br>lb | ft |  |
|----|------|------|----------|----------|----------|----------|----|--|
| 19 | 80.9 | 97.5 | 100,800  |          |          |          | 19 |  |
| 20 | 80.3 | 97.4 | 92,400   |          |          |          | 20 |  |
| 22 | 79.0 | 97.0 | 79,100   | 69,800   | 62,300   |          | 22 |  |
| 24 | 77.7 | 96.5 | 69,000   | 61,700   | 55,600   | 50,400   | 24 |  |
| 26 | 76.4 | 96.1 | 61,100   | 55,100   | 50,100   | 45,800   | 26 |  |
| 28 | 75.1 | 95.5 | 54,700   | 49,800   | 45,600   | 41,900   | 28 |  |
| 30 | 73.8 | 95.0 | 49,400   | 45,300   | 41,700   | 38,600   | 30 |  |
| 32 | 72.5 | 94.3 | 45,000   | 41,500   | 38,400   | 35,700   | 32 |  |
| 34 | 71.2 | 93.7 | 41,200   | 38,200   | 35,600   | 33,100   | 34 |  |
| 36 | 69.9 | 92.9 | 38,000   | 35,400   | 33,000   | 30,900   | 36 |  |
| 38 | 68.6 | 92.2 | 35,200   | 32,900   | 30,800   | 28,900   | 38 |  |
| 40 | 67.2 | 91.3 | 32,700   | 30,700   | 28,900   | 27,200   | 40 |  |
| 42 | 65.8 | 90.4 | 30,600   | 28,800   | 27,100   | 25,600   | 42 |  |
| 44 | 64.5 | 89.5 | 28,600   | 27,000   | 25,500   | 24,100   | 44 |  |
| 46 | 63.1 | 88.5 | 26,900   | 25,400   | 24,100   | 22,800   | 46 |  |
| 48 | 61.6 | 87.4 | 25,300   | 24,000   | 22,800   | 21,600   | 48 |  |
| 50 | 60.2 | 86.3 | 23,900   | 22,700   | 21,600   | 20,500   | 50 |  |
| 55 | 56.5 | 83.1 | 20,900   | 19,900   | 19,000   | 18,100   | 55 |  |
| 60 | 52.7 | 79.5 | 18,400   | 17,600   | 16,900   | 16,200   | 60 |  |
| 65 | 48.6 | 75.4 | 16,300   | 15,700   | 15,100   | 14,500   | 65 |  |
| 70 | 44.3 | 70.5 | 14,600   | 14,100   | 13,600   | 13,100   | 70 |  |
| 75 | 39.6 | 64.9 | 13,200   | 12,700   | 12,300   | 11,900   | 75 |  |
| 80 | 34.3 | 58.1 | 11,900   | 11,500   | 11,200   | 10,800   | 80 |  |
| 85 | 28.2 | 49.7 | 10,800   | 10,500   | 10,200   | 9,900    | 85 |  |
| 90 | 20.5 | 38.4 | 9,800    | 9,600    | 9,300    | 9,100    | 90 |  |

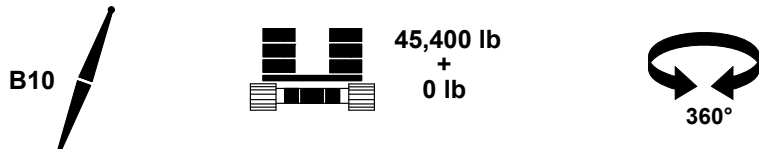
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| ft | °    | ft    | 0°<br>lb | 1°<br>lb | 2°<br>lb | 3°<br>lb | ft |  |
|----|------|-------|----------|----------|----------|----------|----|--|
| 22 | 80.1 | 107.0 | 79,000   |          |          |          | 22 |  |
| 24 | 78.9 | 106.6 | 68,900   | 60,900   | 54,400   |          | 24 |  |
| 26 | 77.8 | 106.2 | 61,000   | 54,500   | 49,100   | 44,600   | 26 |  |
| 28 | 76.6 | 105.7 | 54,500   | 49,200   | 44,700   | 40,800   | 28 |  |
| 30 | 75.4 | 105.2 | 49,300   | 44,800   | 40,900   | 37,600   | 30 |  |
| 32 | 74.3 | 104.6 | 44,800   | 41,000   | 37,700   | 34,800   | 32 |  |
| 34 | 73.1 | 104.0 | 41,100   | 37,800   | 34,900   | 32,300   | 34 |  |
| 36 | 71.9 | 103.4 | 37,900   | 35,000   | 32,400   | 30,200   | 36 |  |
| 38 | 70.7 | 102.7 | 35,000   | 32,500   | 30,300   | 28,200   | 38 |  |
| 40 | 69.5 | 102.0 | 32,600   | 30,300   | 28,300   | 26,500   | 40 |  |
| 42 | 68.3 | 101.2 | 30,400   | 28,400   | 26,600   | 24,900   | 42 |  |
| 44 | 67.1 | 100.3 | 28,400   | 26,700   | 25,000   | 23,500   | 44 |  |
| 46 | 65.9 | 99.4  | 26,700   | 25,100   | 23,600   | 22,200   | 46 |  |
| 48 | 64.6 | 98.5  | 25,100   | 23,700   | 22,300   | 21,100   | 48 |  |
| 50 | 63.4 | 97.5  | 23,700   | 22,400   | 21,100   | 20,000   | 50 |  |
| 55 | 60.1 | 94.8  | 20,700   | 19,600   | 18,600   | 17,700   | 55 |  |
| 60 | 56.8 | 91.6  | 18,200   | 17,300   | 16,500   | 15,700   | 60 |  |
| 65 | 53.4 | 88.1  | 16,100   | 15,400   | 14,700   | 14,100   | 65 |  |
| 70 | 49.8 | 84.1  | 14,400   | 13,800   | 13,300   | 12,700   | 70 |  |
| 75 | 45.9 | 79.5  | 13,000   | 12,500   | 12,000   | 11,500   | 75 |  |
| 80 | 41.8 | 74.2  | 11,700   | 11,300   | 10,900   | 10,500   | 80 |  |
| 85 | 37.4 | 68.0  | 10,600   | 10,200   | 9,900    | 9,500    | 85 |  |
| 90 | 32.4 | 60.8  | 9,600    | 9,300    | 9,000    | 8,700    | 90 |  |
| 95 | 26.6 | 51.7  | 8,700    | 8,500    | 8,200    | 8,000    | 95 |  |

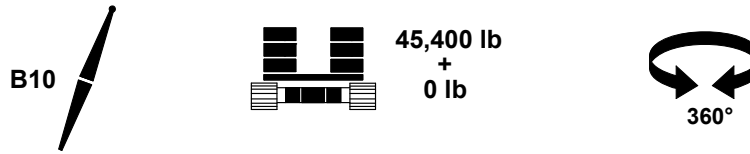


# MLC80A-1 S-1



| 111.5 ft |      |       |          |          |          |          |    |     |
|----------|------|-------|----------|----------|----------|----------|----|-----|
| ft       | °    | ft    | 0°<br>lb | 1°<br>lb | 2°<br>lb | 3°<br>lb | ft |     |
| 22       | 81.0 | 117.0 | 78,900   |          |          |          |    | 22  |
| 24       | 79.9 | 116.6 | 68,800   | 60,200   |          |          |    | 24  |
| 26       | 78.9 | 116.2 | 60,800   | 53,900   | 48,100   |          |    | 26  |
| 28       | 77.8 | 115.8 | 54,400   | 48,600   | 43,800   | 39,700   |    | 28  |
| 30       | 76.8 | 115.3 | 49,100   | 44,300   | 40,200   | 36,600   |    | 30  |
| 32       | 75.7 | 114.8 | 44,700   | 40,600   | 37,000   | 33,900   |    | 32  |
| 34       | 74.6 | 114.3 | 40,900   | 37,400   | 34,300   | 31,500   |    | 34  |
| 36       | 73.6 | 113.7 | 37,700   | 34,600   | 31,900   | 29,400   |    | 36  |
| 38       | 72.5 | 113.1 | 34,900   | 32,100   | 29,700   | 27,600   |    | 38  |
| 40       | 71.4 | 112.4 | 32,400   | 30,000   | 27,800   | 25,900   |    | 40  |
| 42       | 70.3 | 111.7 | 30,200   | 28,100   | 26,100   | 24,400   |    | 42  |
| 44       | 69.2 | 111.0 | 28,300   | 26,300   | 24,600   | 23,000   |    | 44  |
| 46       | 68.1 | 110.2 | 26,500   | 24,800   | 23,200   | 21,700   |    | 46  |
| 48       | 67.0 | 109.3 | 25,000   | 23,400   | 21,900   | 20,600   |    | 48  |
| 50       | 65.9 | 108.4 | 23,500   | 22,100   | 20,800   | 19,500   |    | 50  |
| 55       | 63.0 | 106.0 | 20,500   | 19,300   | 18,200   | 17,200   |    | 55  |
| 60       | 60.1 | 103.2 | 18,000   | 17,100   | 16,200   | 15,300   |    | 60  |
| 65       | 57.1 | 100.1 | 16,000   | 15,200   | 14,400   | 13,700   |    | 65  |
| 70       | 53.9 | 96.6  | 14,300   | 13,600   | 13,000   | 12,400   |    | 70  |
| 75       | 50.7 | 92.7  | 12,800   | 12,200   | 11,700   | 11,200   |    | 75  |
| 80       | 47.2 | 88.3  | 11,500   | 11,000   | 10,600   | 10,100   |    | 80  |
| 85       | 43.6 | 83.3  | 10,400   | 10,000   | 9,600    | 9,200    |    | 85  |
| 90       | 39.7 | 77.6  | 9,500    | 9,100    | 8,700    | 8,400    |    | 90  |
| 95       | 35.5 | 71.0  | 8,600    | 8,300    | 8,000    | 7,700    |    | 95  |
| 100      | 30.7 | 63.2  | 7,800    | 7,600    | 7,300    | 7,000    |    | 100 |
| 105      | 25.1 | 53.6  | 7,100    | 6,900    | 6,700    | 6,500    |    | 105 |

# MLC80A-1 S-1



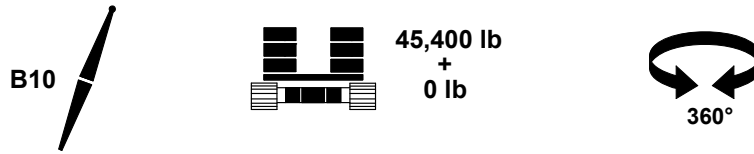
| 121.4 ft |      |       |          |          |          |          |    |     |
|----------|------|-------|----------|----------|----------|----------|----|-----|
| ft       | °    | ft    | 0°<br>lb | 1°<br>lb | 2°<br>lb | 3°<br>lb | ft |     |
| 24       | 80.7 | 126.6 | 68,700   |          |          |          |    | 24  |
| 26       | 79.8 | 126.3 | 60,700   | 53,200   |          |          |    | 26  |
| 28       | 78.8 | 125.9 | 54,300   | 48,100   | 43,000   |          |    | 28  |
| 30       | 77.9 | 125.5 | 49,000   | 43,800   | 39,400   | 35,700   |    | 30  |
| 32       | 76.9 | 125.0 | 44,500   | 40,100   | 36,300   | 33,100   |    | 32  |
| 34       | 75.9 | 124.5 | 40,800   | 36,900   | 33,600   | 30,700   |    | 34  |
| 36       | 74.9 | 124.0 | 37,500   | 34,200   | 31,300   | 28,700   |    | 36  |
| 38       | 74.0 | 123.4 | 34,700   | 31,700   | 29,200   | 26,900   |    | 38  |
| 40       | 73.0 | 122.8 | 32,200   | 29,600   | 27,300   | 25,200   |    | 40  |
| 42       | 72.0 | 122.1 | 30,000   | 27,700   | 25,600   | 23,800   |    | 42  |
| 44       | 71.0 | 121.5 | 28,100   | 26,000   | 24,100   | 22,400   |    | 44  |
| 46       | 70.0 | 120.7 | 26,300   | 24,400   | 22,700   | 21,200   |    | 46  |
| 48       | 69.0 | 120.0 | 24,800   | 23,000   | 21,500   | 20,100   |    | 48  |
| 50       | 67.9 | 119.2 | 23,300   | 21,800   | 20,300   | 19,000   |    | 50  |
| 55       | 65.4 | 117.0 | 20,300   | 19,000   | 17,800   | 16,800   |    | 55  |
| 60       | 62.7 | 114.5 | 17,800   | 16,800   | 15,800   | 14,900   |    | 60  |
| 65       | 60.0 | 111.7 | 15,800   | 14,900   | 14,100   | 13,300   |    | 65  |
| 70       | 57.3 | 108.6 | 14,000   | 13,300   | 12,600   | 12,000   |    | 70  |
| 75       | 54.4 | 105.2 | 12,600   | 11,900   | 11,400   | 10,800   |    | 75  |
| 80       | 51.4 | 101.4 | 11,300   | 10,800   | 10,300   | 9,800    |    | 80  |
| 85       | 48.3 | 97.1  | 10,200   | 9,700    | 9,300    | 8,900    |    | 85  |
| 90       | 45.1 | 92.3  | 9,200    | 8,800    | 8,400    | 8,100    |    | 90  |
| 95       | 41.6 | 86.9  | 8,400    | 8,000    | 7,700    | 7,300    |    | 95  |
| 100      | 37.9 | 80.8  | 7,600    | 7,300    | 7,000    | 6,700    |    | 100 |
| 105      | 33.8 | 73.8  | 6,900    | 6,600    | 6,400    | 6,100    |    | 105 |
| 110      | 29.2 | 65.6  | 6,300    | 6,000    | 5,800    | 5,600    |    | 110 |
| 115      | 23.9 | 55.4  | 5,700    | 5,500    | 5,300    | 5,100    |    | 115 |

# MLC80A-1 S-1



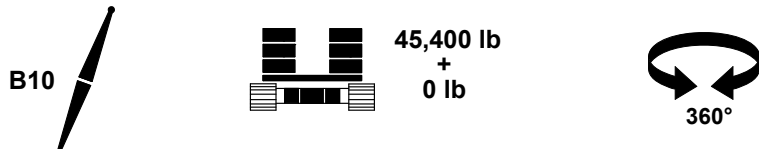
| ft  | °    | ft    | 0°<br>lb | 1°<br>lb | 2°<br>lb | 3°<br>lb | ft  |  |
|-----|------|-------|----------|----------|----------|----------|-----|--|
| 26  | 80.6 | 136.3 | 60,500   |          |          |          | 26  |  |
| 28  | 79.7 | 135.9 | 54,100   | 47,500   |          |          | 28  |  |
| 30  | 78.8 | 135.5 | 48,800   | 43,300   | 38,700   |          | 30  |  |
| 32  | 77.9 | 135.1 | 44,400   | 39,600   | 35,600   | 32,300   | 32  |  |
| 34  | 77.0 | 134.6 | 40,600   | 36,500   | 33,000   | 30,000   | 34  |  |
| 36  | 76.1 | 134.1 | 37,400   | 33,800   | 30,700   | 28,000   | 36  |  |
| 38  | 75.2 | 133.6 | 34,500   | 31,400   | 28,700   | 26,300   | 38  |  |
| 40  | 74.3 | 133.1 | 32,100   | 29,300   | 26,800   | 24,700   | 40  |  |
| 42  | 73.4 | 132.5 | 29,900   | 27,400   | 25,200   | 23,200   | 42  |  |
| 44  | 72.5 | 131.8 | 27,900   | 25,700   | 23,700   | 21,900   | 44  |  |
| 46  | 71.5 | 131.2 | 26,200   | 24,200   | 22,300   | 20,700   | 46  |  |
| 48  | 70.6 | 130.5 | 24,600   | 22,800   | 21,100   | 19,600   | 48  |  |
| 50  | 69.7 | 129.7 | 23,200   | 21,500   | 20,000   | 18,600   | 50  |  |
| 55  | 67.3 | 127.7 | 20,100   | 18,800   | 17,500   | 16,400   | 55  |  |
| 60  | 64.9 | 125.5 | 17,700   | 16,500   | 15,500   | 14,600   | 60  |  |
| 65  | 62.5 | 123.0 | 15,600   | 14,700   | 13,800   | 13,000   | 65  |  |
| 70  | 60.0 | 120.2 | 13,900   | 13,100   | 12,400   | 11,700   | 70  |  |
| 75  | 57.4 | 117.1 | 12,400   | 11,800   | 11,100   | 10,500   | 75  |  |
| 80  | 54.8 | 113.7 | 11,200   | 10,600   | 10,000   | 9,500    | 80  |  |
| 85  | 52.1 | 110.0 | 10,100   | 9,600    | 9,100    | 8,600    | 85  |  |
| 90  | 49.2 | 105.8 | 9,100    | 8,600    | 8,200    | 7,800    | 90  |  |
| 95  | 46.3 | 101.2 | 8,200    | 7,800    | 7,500    | 7,100    | 95  |  |
| 100 | 43.1 | 96.1  | 7,500    | 7,100    | 6,800    | 6,500    | 100 |  |
| 105 | 39.8 | 90.4  | 6,800    | 6,500    | 6,200    | 5,900    | 105 |  |
| 110 | 36.2 | 83.9  | 6,100    | 5,900    | 5,600    | 5,400    | 110 |  |
| 115 | 32.3 | 76.5  | 5,600    | 5,300    | 5,100    | 4,900    | 115 |  |
| 120 | 27.9 | 67.7  | 5,000    | 4,800    | 4,700    | 4,500    | 120 |  |
| 125 | 22.8 | 57.0  | 4,600    | 4,400    | 4,200    | 4,100    | 125 |  |

# MLC80A-1 S-1



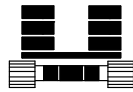
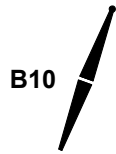
| ft  | °    | ft    | 0°<br>lb | 1°<br>lb | 2°<br>lb | 3°<br>lb | ft  |  |
|-----|------|-------|----------|----------|----------|----------|-----|--|
| 28  | 80.4 | 145.9 | 54,000   |          |          |          | 28  |  |
| 30  | 79.6 | 145.5 | 48,700   | 42,800   |          |          | 30  |  |
| 32  | 78.7 | 145.2 | 44,200   | 39,200   | 35,000   |          | 32  |  |
| 34  | 77.9 | 144.7 | 40,400   | 36,100   | 32,400   | 29,300   | 34  |  |
| 36  | 77.1 | 144.3 | 37,200   | 33,400   | 30,100   | 27,300   | 36  |  |
| 38  | 76.2 | 143.8 | 34,400   | 31,000   | 28,100   | 25,600   | 38  |  |
| 40  | 75.4 | 143.3 | 31,900   | 28,900   | 26,300   | 24,000   | 40  |  |
| 42  | 74.6 | 142.7 | 29,700   | 27,000   | 24,700   | 22,600   | 42  |  |
| 44  | 73.7 | 142.1 | 27,700   | 25,300   | 23,200   | 21,400   | 44  |  |
| 46  | 72.9 | 141.5 | 26,000   | 23,800   | 21,900   | 20,200   | 46  |  |
| 48  | 72.0 | 140.9 | 24,400   | 22,400   | 20,700   | 19,100   | 48  |  |
| 50  | 71.2 | 140.2 | 23,000   | 21,200   | 19,600   | 18,100   | 50  |  |
| 55  | 69.0 | 138.4 | 19,900   | 18,500   | 17,100   | 15,900   | 55  |  |
| 60  | 66.8 | 136.3 | 17,400   | 16,200   | 15,100   | 14,100   | 60  |  |
| 65  | 64.6 | 134.0 | 15,400   | 14,400   | 13,500   | 12,600   | 65  |  |
| 70  | 62.3 | 131.5 | 13,700   | 12,800   | 12,000   | 11,300   | 70  |  |
| 75  | 60.0 | 128.7 | 12,200   | 11,500   | 10,800   | 10,100   | 75  |  |
| 80  | 57.6 | 125.6 | 10,900   | 10,300   | 9,700    | 9,100    | 80  |  |
| 85  | 55.1 | 122.2 | 9,800    | 9,300    | 8,800    | 8,300    | 85  |  |
| 90  | 52.6 | 118.5 | 8,900    | 8,400    | 7,900    | 7,500    | 90  |  |
| 95  | 50.0 | 114.5 | 8,000    | 7,600    | 7,200    | 6,800    | 95  |  |
| 100 | 47.3 | 110.0 | 7,200    | 6,800    | 6,500    | 6,100    | 100 |  |
| 105 | 44.4 | 105.1 | 6,500    | 6,200    | 5,900    | 5,600    | 105 |  |
| 110 | 41.4 | 99.7  | 5,900    | 5,600    | 5,300    | 5,000    | 110 |  |
| 115 | 38.2 | 93.6  | 5,300    | 5,100    | 4,800    | 4,600    | 115 |  |
| 120 | 34.8 | 86.8  | 4,800    | 4,600    | 4,400    | 4,100    | 120 |  |
| 125 | 31.0 | 79.0  | 4,300    | 4,100    | 3,900    |          | 125 |  |
| 130 | 26.8 | 69.8  | 3,900    |          |          |          | 130 |  |

# MLC80A-1 S-1



| 150.9 ft |      |       |          |          |          |          |     |
|----------|------|-------|----------|----------|----------|----------|-----|
| ft       | °    | ft    | 0°<br>lb | 1°<br>lb | 2°<br>lb | 3°<br>lb | ft  |
| 30       | 80.3 | 155.6 | 48,500   |          |          |          | 30  |
| 32       | 79.5 | 155.2 | 44,000   | 38,700   |          |          | 32  |
| 34       | 78.7 | 154.8 | 40,300   | 35,600   | 31,800   |          | 34  |
| 36       | 77.9 | 154.4 | 37,000   | 33,000   | 29,600   | 26,700   | 36  |
| 38       | 77.2 | 153.9 | 34,200   | 30,600   | 27,600   | 25,000   | 38  |
| 40       | 76.4 | 153.4 | 31,700   | 28,500   | 25,800   | 23,500   | 40  |
| 42       | 75.6 | 152.9 | 29,500   | 26,700   | 24,200   | 22,100   | 42  |
| 44       | 74.8 | 152.4 | 27,500   | 25,000   | 22,800   | 20,800   | 44  |
| 46       | 74.0 | 151.8 | 25,800   | 23,500   | 21,500   | 19,700   | 46  |
| 48       | 73.2 | 151.2 | 24,200   | 22,100   | 20,300   | 18,600   | 48  |
| 50       | 72.4 | 150.6 | 22,800   | 20,900   | 19,200   | 17,600   | 50  |
| 55       | 70.4 | 148.9 | 19,700   | 18,200   | 16,800   | 15,500   | 55  |
| 60       | 68.4 | 147.0 | 17,200   | 16,000   | 14,800   | 13,700   | 60  |
| 65       | 66.3 | 144.9 | 15,200   | 14,100   | 13,100   | 12,200   | 65  |
| 70       | 64.2 | 142.5 | 13,500   | 12,600   | 11,700   | 10,900   | 70  |
| 75       | 62.1 | 140.0 | 12,000   | 11,200   | 10,500   | 9,800    | 75  |
| 80       | 59.9 | 137.2 | 10,700   | 10,100   | 9,400    | 8,800    | 80  |
| 85       | 57.7 | 134.1 | 9,600    | 9,000    | 8,500    | 7,900    | 85  |
| 90       | 55.4 | 130.8 | 8,600    | 8,100    | 7,600    | 7,200    | 90  |
| 95       | 53.1 | 127.1 | 7,800    | 7,300    | 6,900    | 6,500    | 95  |
| 100      | 50.6 | 123.1 | 7,000    | 6,600    | 6,200    | 5,800    | 100 |
| 105      | 48.1 | 118.8 | 6,300    | 6,000    | 5,600    | 5,300    | 105 |
| 110      | 45.5 | 114.1 | 5,700    | 5,400    | 5,100    | 4,800    | 110 |
| 115      | 42.8 | 108.9 | 5,100    | 4,800    | 4,600    | 4,300    | 115 |
| 120      | 39.9 | 103.1 | 4,600    | 4,300    | 4,100    | 3,900    | 120 |
| 125      | 36.8 | 96.7  | 4,100    | 3,900    |          |          | 125 |

# MLC80A-1 S-1

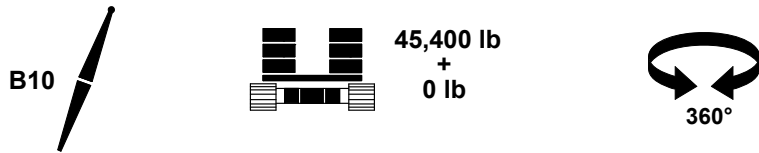


45,400 lb  
+  
0 lb



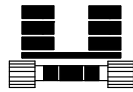
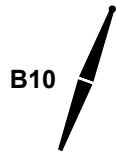
| <br>160.8 ft |      |       |          |          |          |          |     |
|--------------|------|-------|----------|----------|----------|----------|-----|
| ft           | °    | ft    | 0°<br>lb | 1°<br>lb | 2°<br>lb | 3°<br>lb | ft  |
| 30           | 80.9 | 165.5 | 48,300   |          |          |          | 30  |
| 32           | 80.1 | 165.2 | 43,900   |          |          |          | 32  |
| 34           | 79.4 | 164.8 | 40,100   | 35,200   |          |          | 34  |
| 36           | 78.7 | 164.4 | 36,800   | 32,600   | 29,000   |          | 36  |
| 38           | 78.0 | 164.0 | 34,000   | 30,200   | 27,000   | 24,300   | 38  |
| 40           | 77.2 | 163.6 | 31,500   | 28,200   | 25,300   | 22,900   | 40  |
| 42           | 76.5 | 163.1 | 29,300   | 26,300   | 23,700   | 21,500   | 42  |
| 44           | 75.8 | 162.6 | 27,300   | 24,600   | 22,300   | 20,300   | 44  |
| 46           | 75.0 | 162.0 | 25,600   | 23,100   | 21,000   | 19,100   | 46  |
| 48           | 74.3 | 161.5 | 24,000   | 21,800   | 19,800   | 18,100   | 48  |
| 50           | 73.5 | 160.9 | 22,600   | 20,500   | 18,800   | 17,200   | 50  |
| 55           | 71.7 | 159.3 | 19,500   | 17,900   | 16,400   | 15,100   | 55  |
| 60           | 69.8 | 157.5 | 17,000   | 15,700   | 14,400   | 13,300   | 60  |
| 65           | 67.9 | 155.6 | 15,000   | 13,800   | 12,800   | 11,800   | 65  |
| 70           | 65.9 | 153.4 | 13,200   | 12,300   | 11,400   | 10,500   | 70  |
| 75           | 63.9 | 151.0 | 11,800   | 10,900   | 10,200   | 9,400    | 75  |
| 80           | 61.9 | 148.4 | 10,500   | 9,800    | 9,100    | 8,500    | 80  |
| 85           | 59.9 | 145.6 | 9,400    | 8,700    | 8,200    | 7,600    | 85  |
| 90           | 57.8 | 142.6 | 8,400    | 7,800    | 7,300    | 6,800    | 90  |
| 95           | 55.7 | 139.3 | 7,500    | 7,000    | 6,600    | 6,100    | 95  |
| 100          | 53.5 | 135.7 | 6,800    | 6,300    | 5,900    | 5,500    | 100 |
| 105          | 51.2 | 131.8 | 6,100    | 5,700    | 5,300    | 4,900    | 105 |
| 110          | 48.9 | 127.5 | 5,400    | 5,100    | 4,800    | 4,400    | 110 |
| 115          | 46.5 | 122.9 | 4,900    | 4,600    | 4,300    | 4,000    | 115 |
| 120          | 43.9 | 117.9 | 4,400    | 4,100    | 3,800    |          | 120 |
| 125          | 41.3 | 112.4 | 3,900    |          |          |          | 125 |

# MLC80A-1 S-1



| 170.6 ft |      |       |          |          |          |          |     |  |
|----------|------|-------|----------|----------|----------|----------|-----|--|
| ft       | °    | ft    | 0°<br>lb | 1°<br>lb | 2°<br>lb | 3°<br>lb | ft  |  |
| 32       | 80.7 | 175.2 | 43,700   |          |          |          | 32  |  |
| 34       | 80.0 | 174.8 | 39,900   |          |          |          | 34  |  |
| 36       | 79.3 | 174.5 | 36,600   | 32,100   |          |          | 36  |  |
| 38       | 78.7 | 174.1 | 33,800   | 29,800   | 26,500   |          | 38  |  |
| 40       | 78.0 | 173.6 | 31,300   | 27,800   | 24,800   | 22,300   | 40  |  |
| 42       | 77.3 | 173.2 | 29,100   | 26,000   | 23,300   | 21,000   | 42  |  |
| 44       | 76.6 | 172.7 | 27,100   | 24,300   | 21,900   | 19,800   | 44  |  |
| 46       | 75.9 | 172.2 | 25,400   | 22,800   | 20,600   | 18,700   | 46  |  |
| 48       | 75.2 | 171.7 | 23,800   | 21,500   | 19,400   | 17,700   | 48  |  |
| 50       | 74.5 | 171.1 | 22,400   | 20,200   | 18,400   | 16,700   | 50  |  |
| 55       | 72.8 | 169.7 | 19,300   | 17,600   | 16,000   | 14,700   | 55  |  |
| 60       | 71.0 | 168.0 | 16,800   | 15,400   | 14,100   | 13,000   | 60  |  |
| 65       | 69.2 | 166.2 | 14,800   | 13,600   | 12,500   | 11,500   | 65  |  |
| 70       | 67.4 | 164.1 | 13,000   | 12,000   | 11,100   | 10,200   | 70  |  |
| 75       | 65.6 | 161.9 | 11,600   | 10,700   | 9,900    | 9,100    | 75  |  |
| 80       | 63.7 | 159.5 | 10,300   | 9,500    | 8,800    | 8,200    | 80  |  |
| 85       | 61.8 | 156.9 | 9,200    | 8,500    | 7,900    | 7,300    | 85  |  |
| 90       | 59.9 | 154.1 | 8,200    | 7,600    | 7,100    | 6,600    | 90  |  |
| 95       | 57.9 | 151.1 | 7,400    | 6,800    | 6,300    | 5,900    | 95  |  |
| 100      | 55.9 | 147.8 | 6,600    | 6,100    | 5,700    | 5,300    | 100 |  |
| 105      | 53.8 | 144.2 | 5,900    | 5,500    | 5,100    | 4,700    | 105 |  |
| 110      | 51.7 | 140.4 | 5,300    | 4,900    | 4,500    | 4,200    | 110 |  |
| 115      | 49.5 | 136.2 | 4,700    | 4,400    | 4,000    |          | 115 |  |
| 120      | 47.3 | 131.8 | 4,200    | 3,900    |          |          | 120 |  |

# MLC80A-1 S-1



45,400 lb  
+  
0 lb



180.4 ft

|     | ft   | ° | ft    | 0°<br>lb | 1°<br>lb | 2°<br>lb | 3°<br>lb | ft  |
|-----|------|---|-------|----------|----------|----------|----------|-----|
| 34  | 80.6 |   | 184.8 | 39,700   |          |          |          | 34  |
| 36  | 79.9 |   | 184.5 | 36,500   | 31,700   |          |          | 36  |
| 38  | 79.3 |   | 184.1 | 33,600   | 29,500   |          |          | 38  |
| 40  | 78.6 |   | 183.7 | 31,100   | 27,400   |          |          | 40  |
| 42  | 78.0 |   | 183.3 | 28,900   | 25,600   | 24,300   | 20,400   | 42  |
| 44  | 77.3 |   | 182.8 | 26,900   | 24,000   | 21,400   | 19,200   | 44  |
| 46  | 76.7 |   | 182.4 | 25,200   | 22,500   | 20,200   | 18,200   | 46  |
| 48  | 76.0 |   | 181.9 | 23,600   | 21,100   | 19,000   | 17,200   | 48  |
| 50  | 75.4 |   | 181.3 | 22,200   | 19,900   | 18,000   | 16,300   | 50  |
| 55  | 73.7 |   | 179.9 | 19,100   | 17,300   | 15,700   | 14,200   | 55  |
| 60  | 72.1 |   | 178.4 | 16,600   | 15,100   | 13,800   | 12,500   | 60  |
| 65  | 70.4 |   | 176.7 | 14,500   | 13,300   | 12,100   | 11,100   | 65  |
| 70  | 68.7 |   | 174.8 | 12,800   | 11,700   | 10,800   | 9,900    | 70  |
| 75  | 67.0 |   | 172.7 | 11,300   | 10,400   | 9,600    | 8,800    | 75  |
| 80  | 65.2 |   | 170.5 | 10,100   | 9,300    | 8,500    | 7,800    | 80  |
| 85  | 63.5 |   | 168.0 | 9,000    | 8,300    | 7,600    | 7,000    | 85  |
| 90  | 61.7 |   | 165.4 | 8,000    | 7,400    | 6,800    | 6,200    | 90  |
| 95  | 59.9 |   | 162.6 | 7,100    | 6,600    | 6,000    | 5,500    | 95  |
| 100 | 58.0 |   | 159.5 | 6,300    | 5,900    | 5,400    | 4,900    | 100 |
| 105 | 56.1 |   | 156.3 | 5,700    | 5,200    | 4,800    | 4,400    | 105 |
| 110 | 54.2 |   | 152.8 | 5,000    | 4,600    | 4,200    | 3,900    | 110 |
| 115 | 52.2 |   | 149.0 | 4,500    | 4,100    |          |          | 115 |
| 120 | 50.1 |   | 144.9 | 3,900    |          |          |          | 120 |