

# Liftcrane Boom Capacities

Boom No. 49A-44 With Heavy Lift Top  
No Crane Counterweight  
400,000 Lb. Wheeled Counterweight  
360 Degree Rating

## MAX-ER 400 On 2250 or M-250

**LIFTING CAPACITIES:** Lifting capacities for various boom lengths and operating radii are for freely suspended loads and do not exceed 75% of a static tipping load. Capacities based on structural competence are denoted by an asterisk (\*).

Wheeled counterweight must be attached to support beam and MAX-ER mode must be selected to operate. Swing and travel (forward or side crawl) requires proper position of counterweight wheels when contacting ground. Lower boom to ground before removing wheeled counterweight.

Upper boom point capacity for liftcrane service with single part whip line is 30,000 Lbs. or 60,000 Lbs. with two part whip line. 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 main boom 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 uniformly supporting surface with gantry and mast up. Refer to boom rigging **No. 176364** or **No. 192633**, Wire Rope Specification chart **No. 7581-L** and Counterweight Arrangement chart **No. 7692-A** or **No. 8026-A**. Crane operator judgment must be used to allow for dynamic load effects of

swinging, hoisting or lowering, travel, wind conditions, as well as adverse operating conditions and physical machine depreciation. Refer to operators manual for operating guidelines.

**MACHINE TRAVEL:** Machine to travel on a firm, level and uniformly supporting surface with boom within boom angle range shown in capacity chart. Travel may be limited depending upon ground conditions. Refer to Maximum Allowable Travel Specification chart **No. 7748-B** when operating without load.

**OPERATING RADIUS:** Operating radius is horizontal distance from axis of rotation to center of vertical hoist line or load block. Boom angle 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 ground level to centerline of boom point shaft.

**MACHINE EQUIPMENT:** Machine equipped with MAX-ER 400, 30 Ft. 9 in. crawlers, 48 in. treads, 28 Ft. retractable gantry, 80 Ft. mast, 12 part boom hoist reeving, four 1-1/2 in. boom pendants or boom support straps, no crane counterweight and 400,000 Lb. wheeled counterweight.

|                                                                  |
|------------------------------------------------------------------|
| Maximum boom length lifted unassisted over side or end = 300 Ft. |
| Load block, hook and weight ball on ground at start.             |



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**Boom No. 49A-44 With Heavy Lift Top**  
**No Crane Counterweight**  
**400,000 Lb. Wheeled Counterweight**  
**360 Degree Rating**

**MAX-ER 400**  
**On 2250 or**  
**M-250**

| Oper.<br>Rad.<br>Feet | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | Boom<br>Capacity<br>Pounds |
|-----------------------|----------------------|--------------------------------|----------------------------|
| <b>100 Ft. BOOM</b>   |                      |                                |                            |
| 21                    | 82.7                 | 108.8                          | 500,000 *                  |
| 22                    | 82.1                 | 108.7                          | 500,000 *                  |
| 23                    | 81.5                 | 108.5                          | 500,000 *                  |
| 24                    | 81.0                 | 108.3                          | 500,000 *                  |
| 25                    | 80.4                 | 108.1                          | 500,000 *                  |
| 26                    | 79.8                 | 107.9                          | 500,000 *                  |
| 28                    | 78.6                 | 107.5                          | 500,000 *                  |
| 30                    | 77.4                 | 107.0                          | 500,000 *                  |
| 32                    | 76.2                 | 106.4                          | 500,000 *                  |
| 34                    | 75.1                 | 105.9                          | 500,000 *                  |
| 36                    | 73.9                 | 105.3                          | 489,500 *                  |
| 38                    | 72.7                 | 104.6                          | 464,100 *                  |
| 40                    | 71.4                 | 103.9                          | 441,100 *                  |
| 42                    | 70.2                 | 103.1                          | 420,100 *                  |
| 44                    | 69.0                 | 102.3                          | 401,000 *                  |
| 46                    | 67.7                 | 101.4                          | 383,500 *                  |
| 48                    | 66.5                 | 100.5                          | 367,400 *                  |
| 50                    | 65.2                 | 99.6                           | 352,500 *                  |
| 55                    | 61.9                 | 96.9                           | 319,800 *                  |
| 60                    | 58.6                 | 93.8                           | 292,400 *                  |
| 65                    | 55.1                 | 90.4                           | 269,000 *                  |
| 70                    | 51.4                 | 86.4                           | 248,900 *                  |
| 75                    | 47.6                 | 81.9                           | 231,400 *                  |
| 80                    | 43.4                 | 76.7                           | 216,000 *                  |
| 85                    | 38.9                 | 70.6                           | 200,100                    |
| 90                    | 33.9                 | 63.4                           | 186,000                    |
| 95                    | 28.1                 | 54.5                           | 173,600                    |
| <b>120 Ft. BOOM</b>   |                      |                                |                            |
| 23                    | 83.0                 | 128.7                          | 500,000 *                  |
| 24                    | 82.5                 | 128.6                          | 500,000 *                  |
| 25                    | 82.0                 | 128.4                          | 500,000 *                  |
| 26                    | 81.5                 | 128.3                          | 500,000 *                  |
| 28                    | 80.5                 | 127.9                          | 500,000 *                  |
| 30                    | 79.6                 | 127.5                          | 500,000 *                  |
| 32                    | 78.6                 | 127.1                          | 500,000 *                  |
| 34                    | 77.6                 | 126.6                          | 500,000 *                  |
| 36                    | 76.6                 | 126.1                          | 489,200 *                  |
| 38                    | 75.6                 | 125.5                          | 463,700 *                  |
| 40                    | 74.6                 | 124.9                          | 440,700 *                  |
| 42                    | 73.6                 | 124.3                          | 419,800 *                  |
| 44                    | 72.6                 | 123.7                          | 400,700 *                  |
| 46                    | 71.6                 | 123.0                          | 383,100 *                  |
| 48                    | 70.6                 | 122.2                          | 367,000 *                  |
| 50                    | 69.6                 | 121.4                          | 352,100 *                  |
| 55                    | 67.0                 | 119.3                          | 319,400 *                  |
| 60                    | 64.3                 | 116.9                          | 292,000 *                  |
| 65                    | 61.6                 | 114.2                          | 268,700 *                  |

| Oper.<br>Rad.<br>Feet | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | Boom<br>Capacity<br>Pounds |
|-----------------------|----------------------|--------------------------------|----------------------------|
| <b>120 Ft. BOOM</b>   |                      |                                |                            |
| 70                    | 58.8                 | 111.2                          | 248,600 *                  |
| 75                    | 56.0                 | 107.8                          | 231,100 *                  |
| 80                    | 53.0                 | 104.0                          | 215,700 *                  |
| 85                    | 49.9                 | 99.8                           | 200,200                    |
| 90                    | 46.6                 | 95.2                           | 186,100                    |
| 95                    | 43.1                 | 89.9                           | 173,700                    |
| 100                   | 39.4                 | 83.9                           | 162,600                    |
| 105                   | 35.3                 | 77.0                           | 152,800                    |
| 110                   | 30.8                 | 68.9                           | 143,900                    |
| 115                   | 25.5                 | 58.9                           | 135,800                    |
| <b>140 Ft. BOOM</b>   |                      |                                |                            |
| 26                    | 82.7                 | 148.5                          | 500,000 *                  |
| 28                    | 81.9                 | 148.2                          | 500,000 *                  |
| 30                    | 81.1                 | 147.9                          | 500,000 *                  |
| 32                    | 80.2                 | 147.5                          | 500,000 *                  |
| 34                    | 79.4                 | 147.1                          | 500,000 *                  |
| 36                    | 78.6                 | 146.6                          | 484,500 *                  |
| 38                    | 77.7                 | 146.2                          | 459,200 *                  |
| 40                    | 76.9                 | 145.7                          | 436,200 *                  |
| 42                    | 76.0                 | 145.2                          | 415,300 *                  |
| 44                    | 75.2                 | 144.6                          | 396,300 *                  |
| 46                    | 74.3                 | 144.0                          | 378,800 *                  |
| 48                    | 73.5                 | 143.4                          | 362,700 *                  |
| 50                    | 72.6                 | 142.7                          | 347,900 *                  |
| 55                    | 70.4                 | 141.0                          | 315,300 *                  |
| 60                    | 68.2                 | 138.9                          | 287,900 *                  |
| 65                    | 66.0                 | 136.7                          | 264,700 *                  |
| 70                    | 63.7                 | 134.2                          | 244,600 *                  |
| 75                    | 61.4                 | 131.5                          | 227,100 *                  |
| 80                    | 59.0                 | 128.5                          | 211,800 *                  |
| 85                    | 56.5                 | 125.2                          | 197,000                    |
| 90                    | 54.0                 | 121.6                          | 182,900                    |
| 95                    | 51.4                 | 117.6                          | 170,500                    |
| 100                   | 48.7                 | 113.2                          | 159,500                    |
| 105                   | 45.9                 | 108.4                          | 149,600                    |
| 110                   | 42.9                 | 103.1                          | 140,700                    |
| 115                   | 39.7                 | 97.2                           | 132,700                    |
| 120                   | 36.3                 | 90.5                           | 125,400                    |
| 125                   | 32.5                 | 82.8                           | 118,800                    |
| 130                   | 28.3                 | 73.9                           | 112,700                    |

| Oper.<br>Rad.<br>Feet | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | Boom<br>Capacity<br>Pounds |
|-----------------------|----------------------|--------------------------------|----------------------------|
| <b>160 Ft. BOOM</b>   |                      |                                |                            |
| 28                    | 82.9                 | 168.4                          | 500,000 *                  |
| 30                    | 82.2                 | 168.1                          | 500,000 *                  |
| 32                    | 81.5                 | 167.8                          | 500,000 *                  |
| 34                    | 80.7                 | 167.5                          | 500,000 *                  |
| 36                    | 80.0                 | 167.1                          | 484,100 *                  |
| 38                    | 79.3                 | 166.7                          | 458,700 *                  |
| 40                    | 78.6                 | 166.2                          | 435,700 *                  |
| 42                    | 77.8                 | 165.8                          | 414,900 *                  |
| 44                    | 77.1                 | 165.3                          | 395,800 *                  |
| 46                    | 76.3                 | 164.8                          | 378,400 *                  |
| 48                    | 75.6                 | 164.3                          | 362,300 *                  |
| 50                    | 74.9                 | 163.7                          | 347,400 *                  |
| 55                    | 73.0                 | 162.1                          | 314,900 *                  |
| 60                    | 71.1                 | 160.4                          | 287,500 *                  |
| 65                    | 69.2                 | 158.5                          | 264,300 *                  |
| 70                    | 67.2                 | 156.4                          | 244,200 *                  |
| 75                    | 65.3                 | 154.1                          | 226,800 *                  |
| 80                    | 63.3                 | 151.6                          | 211,500 *                  |
| 85                    | 61.2                 | 148.8                          | 197,100                    |
| 90                    | 59.1                 | 145.8                          | 183,000                    |
| 95                    | 57.0                 | 142.6                          | 170,500                    |
| 100                   | 54.8                 | 139.1                          | 159,500                    |
| 105                   | 52.6                 | 135.3                          | 149,600                    |
| 110                   | 50.2                 | 131.1                          | 140,800                    |
| 115                   | 47.8                 | 126.6                          | 132,700                    |
| 120                   | 45.3                 | 121.7                          | 125,400                    |
| 125                   | 42.7                 | 116.3                          | 118,800                    |
| 130                   | 39.9                 | 110.4                          | 112,700                    |
| 135                   | 37.0                 | 103.9                          | 107,100                    |
| 140                   | 33.8                 | 96.6                           | 101,900                    |
| 145                   | 30.3                 | 88.2                           | 97,100                     |
| 150                   | 26.4                 | 78.5                           | 92,600                     |

# Liftcrane Boom Capacities

**Boom No. 49A-44 With Heavy Lift Top**  
**No Crane Counterweight**  
**400,000 Lb. Wheeled Counterweight**  
**360 Degree Rating**

## MAX-ER 400 On 2250 or M-250

| Oper.<br>Rad.<br>Feet | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | Boom<br>Capacity<br>Pounds |
|-----------------------|----------------------|--------------------------------|----------------------------|
| <b>180 Ft. BOOM</b>   |                      |                                |                            |
| 32                    | 82.4                 | 188.1                          | 489,000 *                  |
| 34                    | 81.8                 | 187.7                          | 488,000 *                  |
| 36                    | 81.1                 | 187.4                          | 480,800 *                  |
| 38                    | 80.5                 | 187.1                          | 455,500 *                  |
| 40                    | 79.8                 | 186.7                          | 432,500 *                  |
| 42                    | 79.2                 | 186.3                          | 411,600 *                  |
| 44                    | 78.5                 | 185.8                          | 392,600 *                  |
| 46                    | 77.9                 | 185.4                          | 375,100 *                  |
| 48                    | 77.2                 | 184.9                          | 359,100 *                  |
| 50                    | 76.6                 | 184.4                          | 344,200 *                  |
| 55                    | 74.9                 | 183.1                          | 311,700 *                  |
| 60                    | 73.3                 | 181.5                          | 284,300 *                  |
| 65                    | 71.6                 | 179.9                          | 261,100 *                  |
| 70                    | 69.9                 | 178.0                          | 241,000 *                  |
| 75                    | 68.2                 | 176.0                          | 223,600 *                  |
| 80                    | 66.4                 | 173.8                          | 208,300 *                  |
| 85                    | 64.7                 | 171.5                          | 194,500                    |
| 90                    | 62.9                 | 168.9                          | 180,300                    |
| 95                    | 61.1                 | 166.1                          | 167,900                    |
| 100                   | 59.2                 | 163.2                          | 156,800                    |
| 105                   | 57.3                 | 160.0                          | 146,900                    |
| 110                   | 55.4                 | 156.5                          | 138,100                    |
| 115                   | 53.4                 | 152.8                          | 130,000                    |
| 120                   | 51.4                 | 148.8                          | 122,700                    |
| 125                   | 49.3                 | 144.6                          | 116,100                    |
| 130                   | 47.1                 | 139.9                          | 109,900                    |
| 135                   | 44.9                 | 134.9                          | 104,300                    |
| 140                   | 42.5                 | 129.5                          | 99,100                     |
| 145                   | 40.1                 | 123.7                          | 94,300                     |
| 150                   | 37.5                 | 117.2                          | 89,900                     |
| 155                   | 34.7                 | 110.1                          | 85,700                     |
| 160                   | 31.7                 | 102.2                          | 81,800                     |
| 165                   | 28.5                 | 93.3                           | 78,200                     |
| <b>200 Ft. BOOM</b>   |                      |                                |                            |
| 34                    | 82.6                 | 208.0                          | 462,000 *                  |
| 36                    | 82.0                 | 207.7                          | 458,000 *                  |
| 38                    | 81.5                 | 207.4                          | 454,600 *                  |
| 40                    | 80.9                 | 207.0                          | 431,700 *                  |
| 42                    | 80.3                 | 206.6                          | 410,800 *                  |
| 44                    | 79.7                 | 206.3                          | 391,800 *                  |
| 46                    | 79.1                 | 205.9                          | 374,300 *                  |
| 48                    | 78.5                 | 205.4                          | 358,200 *                  |
| 50                    | 78.0                 | 205.0                          | 343,400 *                  |
| 55                    | 76.5                 | 203.8                          | 310,900 *                  |
| 60                    | 75.0                 | 202.4                          | 283,500 *                  |
| 65                    | 73.5                 | 200.9                          | 260,300 *                  |
| 70                    | 72.0                 | 199.3                          | 240,300 *                  |
| 75                    | 70.5                 | 197.5                          | 222,800 *                  |
| 80                    | 68.9                 | 195.6                          | 207,500 *                  |
| 85                    | 67.4                 | 193.5                          | 194,000 *                  |
| 90                    | 65.8                 | 191.3                          | 180,000                    |
| 95                    | 64.2                 | 188.8                          | 167,500                    |
| 100                   | 62.6                 | 186.2                          | 156,400                    |

| Oper.<br>Rad.<br>Feet | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | Boom<br>Capacity<br>Pounds |
|-----------------------|----------------------|--------------------------------|----------------------------|
| <b>200 Ft. BOOM</b>   |                      |                                |                            |
| 105                   | 61.0                 | 183.5                          | 146,500                    |
| 110                   | 59.3                 | 180.5                          | 137,600                    |
| 115                   | 57.6                 | 177.3                          | 129,600                    |
| 120                   | 55.9                 | 173.9                          | 122,300                    |
| 125                   | 54.1                 | 170.3                          | 115,600                    |
| 130                   | 52.3                 | 166.5                          | 109,500                    |
| 135                   | 50.4                 | 162.4                          | 103,900                    |
| 140                   | 48.5                 | 158.0                          | 98,700                     |
| 145                   | 46.6                 | 153.2                          | 93,900                     |
| 150                   | 44.5                 | 148.2                          | 89,400                     |
| 155                   | 42.4                 | 142.8                          | 85,300                     |
| 160                   | 40.2                 | 136.9                          | 81,400                     |
| 165                   | 37.9                 | 130.6                          | 77,700                     |
| 170                   | 35.5                 | 123.6                          | 74,300                     |
| 175                   | 32.8                 | 116.0                          | 71,100                     |
| 180                   | 30.0                 | 107.6                          | 68,100                     |
| 185                   | 26.9                 | 98.0                           | 65,200                     |
| <b>220 Ft. BOOM</b>   |                      |                                |                            |
| 36                    | 82.8                 | 227.9                          | 364,700 *                  |
| 38                    | 82.2                 | 227.6                          | 364,000 *                  |
| 40                    | 81.7                 | 227.3                          | 363,300 *                  |
| 42                    | 81.2                 | 227.0                          | 362,600 *                  |
| 44                    | 80.7                 | 226.6                          | 361,900 *                  |
| 46                    | 80.1                 | 226.2                          | 361,300 *                  |
| 48                    | 79.6                 | 225.9                          | 353,800 *                  |
| 50                    | 79.1                 | 225.5                          | 342,600 *                  |
| 55                    | 77.7                 | 224.4                          | 310,000 *                  |
| 60                    | 76.4                 | 223.1                          | 282,700 *                  |
| 65                    | 75.0                 | 221.8                          | 259,500 *                  |
| 70                    | 73.7                 | 220.3                          | 239,500 *                  |
| 75                    | 72.3                 | 218.7                          | 222,100 *                  |
| 80                    | 70.9                 | 217.0                          | 206,800 *                  |
| 85                    | 69.5                 | 215.1                          | 193,200 *                  |
| 90                    | 68.1                 | 213.1                          | 179,600                    |
| 95                    | 66.7                 | 211.0                          | 167,100                    |
| 100                   | 65.3                 | 208.6                          | 156,000                    |
| 105                   | 63.8                 | 206.2                          | 146,100                    |
| 110                   | 62.4                 | 203.6                          | 137,200                    |
| 115                   | 60.9                 | 200.8                          | 129,200                    |
| 120                   | 59.4                 | 197.8                          | 121,900                    |
| 125                   | 57.8                 | 194.7                          | 115,200                    |
| 130                   | 56.3                 | 191.3                          | 109,100                    |
| 135                   | 54.7                 | 187.8                          | 103,500                    |
| 140                   | 53.0                 | 184.0                          | 98,300                     |
| 145                   | 51.4                 | 180.1                          | 93,500                     |
| 150                   | 49.7                 | 175.8                          | 89,000                     |
| 155                   | 47.9                 | 171.3                          | 84,800                     |

| Oper.<br>Rad.<br>Feet | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | Boom<br>Capacity<br>Pounds |
|-----------------------|----------------------|--------------------------------|----------------------------|
| <b>220 Ft. BOOM</b>   |                      |                                |                            |
| 160                   | 46.1                 | 166.5                          | 81,000                     |
| 165                   | 44.3                 | 161.4                          | 77,300                     |
| 170                   | 42.3                 | 156.0                          | 73,900                     |
| 175                   | 40.3                 | 150.2                          | 70,700                     |
| 180                   | 38.2                 | 143.9                          | 67,700                     |
| 185                   | 36.0                 | 137.1                          | 64,900                     |
| 190                   | 33.7                 | 129.7                          | 62,200                     |
| 195                   | 31.2                 | 121.6                          | 59,600                     |
| 200                   | 28.6                 | 112.7                          | 57,200                     |
| 205                   | 25.6                 | 102.6                          | 54,900                     |
| <b>240 Ft. BOOM</b>   |                      |                                |                            |
| 38                    | 82.9                 | 247.8                          | 346,900 *                  |
| 40                    | 82.4                 | 247.5                          | 346,400 *                  |
| 42                    | 81.9                 | 247.2                          | 345,700 *                  |
| 44                    | 81.4                 | 246.9                          | 345,400 *                  |
| 46                    | 81.0                 | 246.6                          | 338,200 *                  |
| 48                    | 80.5                 | 246.2                          | 331,200 *                  |
| 50                    | 80.0                 | 245.8                          | 324,400 *                  |
| 55                    | 78.8                 | 244.8                          | 308,400 *                  |
| 60                    | 77.5                 | 243.7                          | 282,200 *                  |
| 65                    | 76.3                 | 242.5                          | 259,000 *                  |
| 70                    | 75.1                 | 241.2                          | 239,000 *                  |
| 75                    | 73.8                 | 239.7                          | 221,600 *                  |
| 80                    | 72.6                 | 238.1                          | 206,300 *                  |
| 85                    | 71.3                 | 236.4                          | 192,700 *                  |
| 90                    | 70.1                 | 234.6                          | 179,400                    |
| 95                    | 68.8                 | 232.7                          | 166,900                    |
| 100                   | 67.5                 | 230.6                          | 155,800                    |
| 105                   | 66.2                 | 228.4                          | 145,900                    |
| 110                   | 64.9                 | 226.0                          | 137,000                    |
| 115                   | 63.5                 | 223.5                          | 129,000                    |
| 120                   | 62.2                 | 220.9                          | 121,700                    |
| 125                   | 60.8                 | 218.1                          | 115,000                    |
| 130                   | 59.4                 | 215.1                          | 108,900                    |
| 135                   | 58.0                 | 212.0                          | 103,200                    |
| 140                   | 56.6                 | 208.7                          | 98,000                     |
| 145                   | 55.1                 | 205.2                          | 93,200                     |
| 150                   | 53.6                 | 201.6                          | 88,800                     |
| 155                   | 52.1                 | 197.7                          | 84,600                     |
| 160                   | 50.6                 | 193.6                          | 80,700                     |
| 165                   | 49.0                 | 189.3                          | 77,100                     |
| 170                   | 47.4                 | 184.7                          | 73,700                     |
| 175                   | 45.7                 | 179.8                          | 70,500                     |
| 180                   | 44.0                 | 174.7                          | 67,500                     |
| 185                   | 42.3                 | 169.2                          | 64,600                     |
| 190                   | 40.4                 | 163.4                          | 62,000                     |
| 195                   | 38.5                 | 157.2                          | 59,400                     |
| 200                   | 36.5                 | 150.5                          | 57,000                     |
| 205                   | 34.4                 | 143.3                          | 54,700                     |
| 210                   | 32.2                 | 135.5                          | 52,500                     |
| 215                   | 29.9                 | 126.9                          | 50,400                     |
| 220                   | 27.3                 | 117.5                          | 48,400                     |



# Liftcrane Boom Capacities

**Boom No. 49A-44 With Heavy Lift Top**  
**No Crane Counterweight**  
**400,000 Lb. Wheeled Counterweight**  
**360 Degree Rating**

**MAX-ER 400**  
**On 2250 or**  
**M-250**

| Oper.<br>Rad.<br>Feet | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | Boom<br>Capacity<br>Pounds |
|-----------------------|----------------------|--------------------------------|----------------------------|
| <b>260 Ft. BOOM</b>   |                      |                                |                            |
| 40                    | 83.0                 | 267.7                          | 278,700 *                  |
| 42                    | 82.5                 | 267.4                          | 273,400 *                  |
| 44                    | 82.1                 | 267.1                          | 268,200 *                  |
| 46                    | 81.7                 | 266.8                          | 263,100 *                  |
| 48                    | 81.2                 | 266.5                          | 258,100 *                  |
| 50                    | 80.8                 | 266.2                          | 253,300 *                  |
| 55                    | 79.6                 | 265.2                          | 241,600 *                  |
| 60                    | 78.5                 | 264.2                          | 230,700 *                  |
| 65                    | 77.4                 | 263.1                          | 220,300 *                  |
| 70                    | 76.3                 | 261.9                          | 210,600 *                  |
| 75                    | 75.1                 | 260.5                          | 201,400 *                  |
| 80                    | 74.0                 | 259.1                          | 192,700 *                  |
| 85                    | 72.8                 | 257.5                          | 184,500 *                  |
| 90                    | 71.7                 | 255.9                          | 176,600 *                  |
| 95                    | 70.5                 | 254.1                          | 166,300                    |
| 100                   | 69.3                 | 252.2                          | 155,200                    |
| 105                   | 68.1                 | 250.2                          | 145,200                    |
| 110                   | 66.9                 | 248.1                          | 136,300                    |
| 115                   | 65.7                 | 245.8                          | 128,300                    |
| 120                   | 64.5                 | 243.4                          | 120,900                    |
| 125                   | 63.3                 | 240.9                          | 114,300                    |
| 130                   | 62.0                 | 238.2                          | 108,100                    |
| 135                   | 60.7                 | 235.4                          | 102,500                    |
| 140                   | 59.5                 | 232.5                          | 97,300                     |
| 145                   | 58.2                 | 229.4                          | 92,500                     |
| 150                   | 56.9                 | 226.1                          | 88,100                     |
| 155                   | 55.5                 | 222.7                          | 83,900                     |
| 160                   | 54.2                 | 219.1                          | 80,000                     |
| 165                   | 52.8                 | 215.3                          | 76,400                     |
| 170                   | 51.4                 | 211.3                          | 73,000                     |
| 175                   | 49.9                 | 207.1                          | 69,800                     |
| 180                   | 48.5                 | 202.7                          | 66,800                     |
| 185                   | 47.0                 | 198.0                          | 63,900                     |
| 190                   | 45.4                 | 193.1                          | 61,300                     |
| 195                   | 43.8                 | 187.9                          | 58,700                     |
| 200                   | 42.2                 | 182.5                          | 56,300                     |
| 205                   | 40.5                 | 176.6                          | 54,000                     |
| 210                   | 38.7                 | 170.5                          | 51,800                     |
| 215                   | 36.9                 | 163.9                          | 49,800                     |
| 220                   | 35.0                 | 156.8                          | 47,800                     |
| 225                   | 33.0                 | 149.2                          | 45,800 *                   |
| 230                   | 30.9                 | 141.0                          | 42,400 *                   |
| 235                   | 28.6                 | 132.0                          | 39,000 *                   |
| 240                   | 26.2                 | 122.1                          | 35,600 *                   |

| Oper.<br>Rad.<br>Feet | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | Boom<br>Capacity<br>Pounds |
|-----------------------|----------------------|--------------------------------|----------------------------|
| <b>280 Ft. BOOM</b>   |                      |                                |                            |
| 44                    | 82.7                 | 287.3                          | 247,100 *                  |
| 46                    | 82.3                 | 287.1                          | 242,500 *                  |
| 48                    | 81.8                 | 286.8                          | 238,000 *                  |
| 50                    | 81.4                 | 286.4                          | 233,600 *                  |
| 55                    | 80.4                 | 285.6                          | 222,900 *                  |
| 60                    | 79.4                 | 284.6                          | 212,800 *                  |
| 65                    | 78.3                 | 283.6                          | 203,200 *                  |
| 70                    | 77.3                 | 282.5                          | 194,100 *                  |
| 75                    | 76.2                 | 281.2                          | 185,400 *                  |
| 80                    | 75.1                 | 279.9                          | 177,300 *                  |
| 85                    | 74.1                 | 278.5                          | 169,500 *                  |
| 90                    | 73.0                 | 276.9                          | 162,200 *                  |
| 95                    | 71.9                 | 275.3                          | 155,200 *                  |
| 100                   | 70.9                 | 273.6                          | 148,500 *                  |
| 105                   | 69.8                 | 271.7                          | 142,100 *                  |
| 110                   | 68.7                 | 269.7                          | 135,900                    |
| 115                   | 67.6                 | 267.7                          | 127,800                    |
| 120                   | 66.4                 | 265.5                          | 120,500                    |
| 125                   | 65.3                 | 263.2                          | 113,800                    |
| 130                   | 64.2                 | 260.8                          | 107,700                    |
| 135                   | 63.0                 | 258.2                          | 102,000                    |
| 140                   | 61.9                 | 255.5                          | 96,800                     |
| 145                   | 60.7                 | 252.7                          | 92,000                     |
| 150                   | 59.5                 | 249.8                          | 87,600                     |
| 155                   | 58.3                 | 246.7                          | 83,400                     |
| 160                   | 57.1                 | 243.5                          | 79,500                     |
| 165                   | 55.8                 | 240.1                          | 75,900                     |
| 170                   | 54.6                 | 236.5                          | 72,500                     |
| 175                   | 53.3                 | 232.8                          | 69,300                     |
| 180                   | 52.0                 | 228.9                          | 66,300                     |
| 185                   | 50.7                 | 224.8                          | 63,500                     |
| 190                   | 49.4                 | 220.6                          | 60,800                     |
| 195                   | 48.0                 | 216.1                          | 58,200                     |
| 200                   | 46.6                 | 211.3                          | 55,800                     |
| 205                   | 45.1                 | 206.4                          | 53,500                     |
| 210                   | 43.7                 | 201.2                          | 50,400 *                   |
| 215                   | 42.1                 | 195.7                          | 47,300 *                   |
| 220                   | 40.6                 | 189.9                          | 44,200 *                   |
| 225                   | 38.9                 | 183.7                          | 41,100 *                   |
| 230                   | 37.3                 | 177.2                          | 38,100 *                   |
| 235                   | 35.5                 | 170.3                          | 35,200 *                   |
| 240                   | 33.7                 | 162.9                          | 32,200 *                   |
| 245                   | 31.8                 | 154.9                          | 29,400 *                   |
| 250                   | 29.7                 | 146.3                          | 26,500 *                   |
| 255                   | 27.5                 | 136.9                          | 23,700 *                   |
| 260                   | 25.2                 | 126.6                          | 20,800 *                   |

| Oper.<br>Rad.<br>Feet | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | Boom<br>Capacity<br>Pounds |
|-----------------------|----------------------|--------------------------------|----------------------------|
| <b>300 Ft. BOOM</b>   |                      |                                |                            |
| 46                    | 82.8                 | 307.3                          | 194,500 *                  |
| 48                    | 82.4                 | 307.0                          | 191,200 *                  |
| 50                    | 82.0                 | 306.7                          | 187,800 *                  |
| 55                    | 81.0                 | 305.9                          | 179,700 *                  |
| 60                    | 80.1                 | 305.0                          | 171,900 *                  |
| 65                    | 79.1                 | 304.0                          | 164,300 *                  |
| 70                    | 78.1                 | 303.0                          | 157,100 *                  |
| 75                    | 77.1                 | 301.8                          | 150,200 *                  |
| 80                    | 76.2                 | 300.6                          | 143,600 *                  |
| 85                    | 75.2                 | 299.3                          | 137,300 *                  |
| 90                    | 74.2                 | 297.8                          | 131,200 *                  |
| 95                    | 73.2                 | 296.3                          | 125,400 *                  |
| 100                   | 72.2                 | 294.7                          | 119,800 *                  |
| 105                   | 71.2                 | 293.0                          | 114,400 *                  |
| 110                   | 70.2                 | 291.2                          | 109,200 *                  |
| 115                   | 69.1                 | 289.3                          | 104,300 *                  |
| 120                   | 68.1                 | 287.3                          | 99,500 *                   |
| 125                   | 67.1                 | 285.1                          | 94,900 *                   |
| 130                   | 66.0                 | 282.9                          | 90,400 *                   |
| 135                   | 65.0                 | 280.6                          | 86,100 *                   |
| 140                   | 63.9                 | 278.1                          | 81,900 *                   |
| 145                   | 62.8                 | 275.6                          | 77,900 *                   |
| 150                   | 61.7                 | 272.9                          | 74,000 *                   |
| 155                   | 60.6                 | 270.1                          | 70,200 *                   |
| 160                   | 59.5                 | 267.1                          | 66,500 *                   |
| 165                   | 58.4                 | 264.0                          | 62,900 *                   |
| 170                   | 57.3                 | 260.8                          | 59,400 *                   |
| 175                   | 56.1                 | 257.5                          | 56,100 *                   |
| 180                   | 55.0                 | 254.0                          | 52,700 *                   |
| 185                   | 53.8                 | 250.3                          | 49,500 *                   |
| 190                   | 52.6                 | 246.5                          | 46,400 *                   |
| 195                   | 51.4                 | 242.5                          | 43,300 *                   |
| 200                   | 50.1                 | 238.3                          | 40,300 *                   |
| 205                   | 48.9                 | 234.0                          | 37,400 *                   |
| 210                   | 47.6                 | 229.4                          | 34,500 *                   |
| 215                   | 46.2                 | 224.7                          | 31,700 *                   |
| 220                   | 44.9                 | 219.7                          | 29,000 *                   |
| 225                   | 43.5                 | 214.4                          | 26,300 *                   |
| 230                   | 42.1                 | 208.9                          | 23,700 *                   |
| 235                   | 40.6                 | 203.1                          | 21,100 *                   |
| 240                   | 39.1                 | 197.0                          | 18,600 *                   |
| 245                   | 37.6                 | 190.6                          | 16,100 *                   |
| 250                   | 35.9                 | 183.7                          | 13,600 *                   |
| 255                   | 34.3                 | 176.5                          | 11,200 *                   |