

# Liftcrane Boom Capacities

## 4600 SERIES 4 RINGER SERIES 3

**Boom No. 65**  
**60 ft RINGER Attachment On**  
**Blocking Or Pedestals**  
**123,000 lb Crane Counterweight**  
**889,300 lb Auxiliary Counterweight**  
**Barge Mount - 0 Degree thru 2 Degree Static Machine List**  
**360 Degree Rating**

**LIFTING CAPACITIES:** Lifting capacities are for a RINGER 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 do not exceed 75% of a static tipping load. Capacities based on structural competence are denoted by an asterisk (\*).

Upper boom point capacities for liftcrane service with single part whip line are 44,000 lb for 1-1/4 in. wire rope, 45,000 lb for 1-3/8 in. wire rope and 50,000 lb for 1-1/2 in. or 1-5/8 in. wire rope. Capacities for two part line are 88,000 lb for 1-1/4 in. wire rope, 90,000 lb for 1-3/8 in. wire rope and 100,000 lb for 1-1/2 in. or 1-5/8 in. wire rope. In all cases, upper boom point capacities cannot exceed those listed for the 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 roller path properly supported and machine list not to exceed degrees noted with exception of 0 degree machine list which must not

exceed 1-1/4 in. in 60 ft. Refer to boom rigging **No. 66184** and Wire Rope Specification chart **No. 7307-A** or **No. 7357-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.

**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 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 60 ft RINGER attachment, 30 ft 5 in. crawlers, 60 in. treads, 33 ft retractable gantry, 130 ft mast, 18 part boom hoist reeving, eight 1-3/8 in. boom pendants, 123,000 lb crane counterweight. (120,000 lb with counterweight assembly **No. 49667**) and 889,300 lb auxiliary counterweight.

**Warning:** Check amount of auxiliary counterweight on machine before use of this chart.

| Maximum Boom Lengths Lifted Unassisted                                                                    |             |
|-----------------------------------------------------------------------------------------------------------|-------------|
| List                                                                                                      | Boom Length |
| 0 Degree                                                                                                  | 400 ft      |
| 1/2 Degree                                                                                                | 360 ft      |
| 1 Degree                                                                                                  | 320 ft      |
| 2 Degree                                                                                                  | 280 ft      |
| Load block, hook and weight ball on barge deck until combined weights are within rated capacity of chart. |             |

Jib must be removed before use of this chart.

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 360 Degree Rating

| Oper.<br>Radius<br>Feet | Boom<br>Angle<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | 0 Degree<br>List<br>Boom<br>Capacity<br>Pounds | 1/2 Degree<br>List<br>Boom<br>Capacity<br>Pounds | 1 Degree<br>List<br>Boom<br>Capacity<br>Pounds | 2 Degree<br>List<br>Boom<br>Capacity<br>Pounds | Oper.<br>Radius<br>Feet |
|-------------------------|-----------------------|--------------------------------|------------------------------------------------|--------------------------------------------------|------------------------------------------------|------------------------------------------------|-------------------------|
| 140.0 ft                |                       |                                |                                                |                                                  |                                                |                                                |                         |
| 55                      | 80.1                  | 145.5                          | 1,500,000 *                                    | 600,800 *                                        | 572,200 *                                      |                                                | 55                      |
| 60                      | 78.0                  | 144.4                          | 1,500,000 *                                    | 549,200 *                                        | 522,000 *                                      | 493,700 *                                      | 60                      |
| 65                      | 75.9                  | 143.2                          | 1,500,000 *                                    | 505,400 *                                        | 479,600 *                                      | 452,600 *                                      | 65                      |
| 70                      | 73.8                  | 141.8                          | 1,406,500                                      | 468,000 *                                        | 443,300 *                                      | 417,400 *                                      | 70                      |
| 75                      | 71.6                  | 140.1                          | 1,249,600                                      | 435,500 *                                        | 411,700 *                                      | 386,900 *                                      | 75                      |
| 80                      | 69.5                  | 138.3                          | 1,123,300                                      | 407,100 *                                        | 384,200 *                                      | 360,200 *                                      | 80                      |
| 85                      | 67.2                  | 136.2                          | 1,019,400                                      | 382,000 *                                        | 359,800 *                                      | 336,700 *                                      | 85                      |
| 90                      | 65.0                  | 133.9                          | 932,400                                        | 359,700 *                                        | 338,200 *                                      | 315,700 *                                      | 90                      |
| 95                      | 62.7                  | 131.4                          | 858,600                                        | 339,800 *                                        | 318,900 *                                      | 297,000 *                                      | 95                      |
| 100                     | 60.3                  | 128.6                          | 795,100                                        | 321,800 *                                        | 301,400 *                                      | 280,100 *                                      | 100                     |
| 105                     | 57.9                  | 125.5                          | 733,300 *                                      | 305,600 *                                        | 285,700 *                                      | 264,900 *                                      | 105                     |
| 110                     | 55.5                  | 122.1                          | 677,700 *                                      | 290,800 *                                        | 271,300 *                                      | 251,000 *                                      | 110                     |
| 115                     | 52.9                  | 118.4                          | 628,500 *                                      | 277,300 *                                        | 258,300 *                                      | 238,300 *                                      | 115                     |
| 120                     | 50.3                  | 114.3                          | 584,500 *                                      | 265,000 *                                        | 246,300 *                                      | 226,700 *                                      | 120                     |
| 125                     | 47.5                  | 109.8                          | 544,900 *                                      | 253,600 *                                        | 235,200 *                                      | 216,000 *                                      | 125                     |
| 130                     | 44.7                  | 104.9                          | 508,900 *                                      | 243,100 *                                        | 225,000 *                                      | 206,200 *                                      | 130                     |
| 135                     | 41.6                  | 99.4                           | 475,300 *                                      | 233,400 *                                        | 215,600 *                                      | 197,000 *                                      | 135                     |
| 140                     | 38.4                  | 93.2                           | 442,400 *                                      | 224,300 *                                        | 206,800 *                                      | 188,500 *                                      | 140                     |
| 145                     | 34.9                  | 86.3                           | 411,600 *                                      | 215,900 *                                        | 198,700 *                                      | 180,600 *                                      | 145                     |
| 150                     | 31.0                  | 78.4                           | 382,600 *                                      | 208,100 *                                        | 191,100 *                                      | 173,200 *                                      | 150                     |
| 155                     | 26.7                  | 69.0                           | 354,500 *                                      | 200,700 *                                        | 183,900 *                                      | 166,300 *                                      | 155                     |
| 160                     | 21.5                  | 57.3                           | 326,500 *                                      | 193,800 *                                        | 177,200 *                                      | 159,900 *                                      | 160                     |

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Boom No. 65  
 60 ft RINGER Attachment On  
 Blocking Or Pedestals  
 123,000 lb Crane Counterweight  
 889,300 lb Auxiliary Counterweight  
 Barge Mount - 0 Degree thru 2 Degree Static Machine List  
 360 Degree Rating

| Oper.<br>Radius<br>Feet | Boom<br>Angle<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | 0 Degree<br>List<br>Boom<br>Capacity<br>Pounds | 1/2 Degree<br>List<br>Boom<br>Capacity<br>Pounds | 1 Degree<br>List<br>Boom<br>Capacity<br>Pounds | 2 Degree<br>List<br>Boom<br>Capacity<br>Pounds | Oper.<br>Radius<br>Feet |
|-------------------------|-----------------------|--------------------------------|------------------------------------------------|--------------------------------------------------|------------------------------------------------|------------------------------------------------|-------------------------|
| 180.0 ft                |                       |                                |                                                |                                                  |                                                |                                                |                         |
| 60                      | 80.7                  | 185.2                          | 1,500,000 *                                    | 544,700 *                                        | 515,200 *                                      |                                                | 60                      |
| 65                      | 79.1                  | 184.3                          | 1,500,000 *                                    | 501,100 *                                        | 472,900 *                                      | 443,400 *                                      | 65                      |
| 70                      | 77.5                  | 183.2                          | 1,399,000                                      | 463,700 *                                        | 436,700 *                                      | 408,400 *                                      | 70                      |
| 75                      | 75.8                  | 181.9                          | 1,242,100                                      | 431,300 *                                        | 405,300 *                                      | 378,100 *                                      | 75                      |
| 80                      | 74.2                  | 180.6                          | 1,115,700                                      | 402,900 *                                        | 377,800 *                                      | 351,500 *                                      | 80                      |
| 85                      | 72.5                  | 179.0                          | 1,011,800                                      | 377,900 *                                        | 353,600 *                                      | 328,100 *                                      | 85                      |
| 90                      | 70.8                  | 177.3                          | 924,800                                        | 355,700 *                                        | 332,000 *                                      | 307,300 *                                      | 90                      |
| 95                      | 69.1                  | 175.4                          | 851,000                                        | 335,800 *                                        | 312,700 *                                      | 288,600 *                                      | 95                      |
| 100                     | 67.4                  | 173.3                          | 787,400                                        | 317,900 *                                        | 295,400 *                                      | 271,900 *                                      | 100                     |
| 105                     | 65.7                  | 171.1                          | 732,200                                        | 301,700 *                                        | 279,700 *                                      | 256,700 *                                      | 105                     |
| 110                     | 63.9                  | 168.7                          | 683,800                                        | 286,900 *                                        | 265,400 *                                      | 242,900 *                                      | 110                     |
| 115                     | 62.1                  | 166.1                          | 641,000                                        | 273,500 *                                        | 252,400 *                                      | 230,300 *                                      | 115                     |
| 120                     | 60.3                  | 163.2                          | 602,900                                        | 261,100 *                                        | 240,400 *                                      | 218,700 *                                      | 120                     |
| 125                     | 58.4                  | 160.2                          | 568,700                                        | 249,800 *                                        | 229,400 *                                      | 208,100 *                                      | 125                     |
| 130                     | 56.5                  | 156.9                          | 537,900                                        | 239,300 *                                        | 219,300 *                                      | 198,300 *                                      | 130                     |
| 135                     | 54.6                  | 153.4                          | 510,000                                        | 229,600 *                                        | 209,900 *                                      | 189,200 *                                      | 135                     |
| 140                     | 52.6                  | 149.6                          | 484,600                                        | 220,600 *                                        | 201,200 *                                      | 180,800 *                                      | 140                     |
| 145                     | 50.5                  | 145.6                          | 461,400                                        | 212,200 *                                        | 193,000 *                                      | 172,900 *                                      | 145                     |
| 150                     | 48.4                  | 141.2                          | 440,100                                        | 204,400 *                                        | 185,400 *                                      | 165,600 *                                      | 150                     |
| 155                     | 46.2                  | 136.5                          | 416,000 *                                      | 197,100 *                                        | 178,300 *                                      | 158,700 *                                      | 155                     |
| 160                     | 43.9                  | 131.4                          | 392,800 *                                      | 190,200 *                                        | 171,700 *                                      | 152,300 *                                      | 160                     |
| 165                     | 41.6                  | 125.8                          | 371,200 *                                      | 183,800 *                                        | 165,400 *                                      | 146,300 *                                      | 165                     |
| 170                     | 39.1                  | 119.8                          | 350,900 *                                      | 177,700 *                                        | 159,600 *                                      | 140,600 *                                      | 170                     |
| 175                     | 36.4                  | 113.2                          | 331,900 *                                      | 172,000 *                                        | 154,000 *                                      | 135,200 *                                      | 175                     |
| 180                     | 33.6                  | 105.9                          | 313,800 *                                      | 166,600 *                                        | 148,800 *                                      | 130,100 *                                      | 180                     |
| 185                     | 30.6                  | 97.7                           | 296,600 *                                      | 161,500 *                                        | 143,800 *                                      | 125,300 *                                      | 185                     |
| 190                     | 27.2                  | 88.4                           | 278,900 *                                      | 156,600 *                                        | 139,100 *                                      | 120,800 *                                      | 190                     |
| 195                     | 23.4                  | 77.5                           | 260,100 *                                      | 152,000 *                                        | 134,600 *                                      | 116,500 *                                      | 195                     |
| 200                     | 18.8                  | 64.2                           | 241,000 *                                      | 147,600 *                                        | 130,400 *                                      | 112,300 *                                      | 200                     |

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 60 ft RINGER Attachment On  
 Blocking Or Pedestals  
 123,000 lb Crane Counterweight  
 889,300 lb Auxiliary Counterweight  
 Barge Mount - 0 Degree thru 2 Degree Static Machine List  
 360 Degree Rating

| Oper.<br>Radius<br>Feet | Boom<br>Angle<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | 0 Degree<br>List<br>Boom<br>Capacity<br>Pounds | 1/2 Degree<br>List<br>Boom<br>Capacity<br>Pounds | 1 Degree<br>List<br>Boom<br>Capacity<br>Pounds | 2 Degree<br>List<br>Boom<br>Capacity<br>Pounds | Oper.<br>Radius<br>Feet |
|-------------------------|-----------------------|--------------------------------|------------------------------------------------|--------------------------------------------------|------------------------------------------------|------------------------------------------------|-------------------------|
| 200.0 ft                |                       |                                |                                                |                                                  |                                                |                                                |                         |
| 60                      | 81.7                  | 205.5                          | 1,301,700 *                                    |                                                  |                                                |                                                | 60                      |
| 65                      | 80.2                  | 204.7                          | 1,301,700 *                                    | 499,300 *                                        | 470,200 *                                      |                                                | 65                      |
| 70                      | 78.7                  | 203.7                          | 1,281,600 *                                    | 462,000 *                                        | 434,100 *                                      | 404,900 *                                      | 70                      |
| 75                      | 77.3                  | 202.6                          | 1,239,300                                      | 429,600 *                                        | 402,700 *                                      | 374,600 *                                      | 75                      |
| 80                      | 75.8                  | 201.3                          | 1,112,900                                      | 401,300 *                                        | 375,300 *                                      | 348,100 *                                      | 80                      |
| 85                      | 74.3                  | 199.9                          | 1,009,000                                      | 376,300 *                                        | 351,100 *                                      | 324,700 *                                      | 85                      |
| 90                      | 72.8                  | 198.4                          | 922,000                                        | 354,100 *                                        | 329,600 *                                      | 304,000 *                                      | 90                      |
| 95                      | 71.3                  | 196.7                          | 848,100                                        | 334,200 *                                        | 310,300 *                                      | 285,400 *                                      | 95                      |
| 100                     | 69.8                  | 194.9                          | 784,600                                        | 316,300 *                                        | 293,000 *                                      | 268,700 *                                      | 100                     |
| 105                     | 68.2                  | 192.9                          | 729,400                                        | 300,100 *                                        | 277,400 *                                      | 253,500 *                                      | 105                     |
| 110                     | 66.7                  | 190.8                          | 681,000                                        | 285,400 *                                        | 263,100 *                                      | 239,700 *                                      | 110                     |
| 115                     | 65.1                  | 188.5                          | 638,200                                        | 272,000 *                                        | 250,100 *                                      | 227,200 *                                      | 115                     |
| 120                     | 63.5                  | 186.0                          | 600,100                                        | 259,700 *                                        | 238,200 *                                      | 215,700 *                                      | 120                     |
| 125                     | 61.9                  | 183.4                          | 565,900                                        | 248,300 *                                        | 227,200 *                                      | 205,100 *                                      | 125                     |
| 130                     | 60.2                  | 180.6                          | 535,100                                        | 237,900 *                                        | 217,100 *                                      | 195,300 *                                      | 130                     |
| 135                     | 58.6                  | 177.5                          | 507,200                                        | 228,200 *                                        | 207,700 *                                      | 186,200 *                                      | 135                     |
| 140                     | 56.9                  | 174.3                          | 481,800                                        | 219,200 *                                        | 199,000 *                                      | 177,800 *                                      | 140                     |
| 145                     | 55.1                  | 170.9                          | 458,600                                        | 210,800 *                                        | 190,900 *                                      | 170,000 *                                      | 145                     |
| 150                     | 53.3                  | 167.2                          | 437,300                                        | 203,000 *                                        | 183,300 *                                      | 162,700 *                                      | 150                     |
| 155                     | 51.5                  | 163.2                          | 417,700                                        | 195,700 *                                        | 176,200 *                                      | 155,800 *                                      | 155                     |
| 160                     | 49.7                  | 159.1                          | 399,600                                        | 188,800 *                                        | 169,600 *                                      | 149,400 *                                      | 160                     |
| 165                     | 47.7                  | 154.6                          | 382,800                                        | 182,400 *                                        | 163,300 *                                      | 143,400 *                                      | 165                     |
| 170                     | 45.7                  | 149.8                          | 367,200                                        | 176,300 *                                        | 157,500 *                                      | 137,700 *                                      | 170                     |
| 175                     | 43.7                  | 144.6                          | 349,800 *                                      | 170,600 *                                        | 151,900 *                                      | 132,300 *                                      | 175                     |
| 180                     | 41.6                  | 139.1                          | 331,700 *                                      | 165,200 *                                        | 146,700 *                                      | 127,300 *                                      | 180                     |
| 185                     | 39.3                  | 133.1                          | 314,700 *                                      | 160,100 *                                        | 141,700 *                                      | 122,500 *                                      | 185                     |
| 190                     | 37.0                  | 126.6                          | 298,600 *                                      | 155,300 *                                        | 137,100 *                                      | 118,000 *                                      | 190                     |
| 195                     | 34.5                  | 119.5                          | 283,300 *                                      | 150,700 *                                        | 132,600 *                                      | 113,700 *                                      | 195                     |
| 200                     | 31.8                  | 111.7                          | 268,700 *                                      | 146,300 *                                        | 128,400 *                                      | 109,600 *                                      | 200                     |
| 205                     | 28.9                  | 102.9                          | 254,600 *                                      | 142,200 *                                        | 124,400 *                                      | 105,700 *                                      | 205                     |
| 210                     | 25.8                  | 93.0                           | 240,800 *                                      | 138,200 *                                        | 120,500 *                                      | 102,000 *                                      | 210                     |
| 215                     | 22.1                  | 81.4                           | 225,800 *                                      | 134,400 *                                        | 116,900 *                                      | 98,500 *                                       | 215                     |
| 220                     | 17.8                  | 67.3                           | 209,500 *                                      | 130,800 *                                        | 113,400 *                                      | 95,100 *                                       | 220                     |

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 Blocking Or Pedestals  
 123,000 lb Crane Counterweight  
 889,300 lb Auxiliary Counterweight  
 Barge Mount - 0 Degree thru 2 Degree Static Machine List  
 360 Degree Rating

| Oper.<br>Radius<br>Feet | Boom<br>Angle<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | 0 Degree<br>List<br>Boom<br>Capacity<br>Pounds | 1/2 Degree<br>List<br>Boom<br>Capacity<br>Pounds | 1 Degree<br>List<br>Boom<br>Capacity<br>Pounds | 2 Degree<br>List<br>Boom<br>Capacity<br>Pounds | Oper.<br>Radius<br>Feet |
|-------------------------|-----------------------|--------------------------------|------------------------------------------------|--------------------------------------------------|------------------------------------------------|------------------------------------------------|-------------------------|
| 220.0 ft                |                       |                                |                                                |                                                  |                                                |                                                |                         |
| 65                      | 81.1                  | 225.0                          | 1,138,000 *                                    | 497,700 *                                        |                                                |                                                | 65                      |
| 70                      | 79.8                  | 224.1                          | 1,110,500 *                                    | 460,400 *                                        | 431,700 *                                      | 401,600 *                                      | 70                      |
| 75                      | 78.5                  | 223.1                          | 1,083,900 *                                    | 428,100 *                                        | 400,400 *                                      | 371,400 *                                      | 75                      |
| 80                      | 77.1                  | 221.9                          | 1,058,300 *                                    | 399,800 *                                        | 373,000 *                                      | 345,000 *                                      | 80                      |
| 85                      | 75.8                  | 220.7                          | 1,006,500                                      | 374,800 *                                        | 348,800 *                                      | 321,700 *                                      | 85                      |
| 90                      | 74.4                  | 219.3                          | 919,500                                        | 352,600 *                                        | 327,400 *                                      | 300,900 *                                      | 90                      |
| 95                      | 73.1                  | 217.8                          | 845,600                                        | 332,800 *                                        | 308,100 *                                      | 282,400 *                                      | 95                      |
| 100                     | 71.7                  | 216.1                          | 782,100                                        | 314,900 *                                        | 290,900 *                                      | 265,700 *                                      | 100                     |
| 105                     | 70.3                  | 214.4                          | 726,900                                        | 298,700 *                                        | 275,200 *                                      | 250,600 *                                      | 105                     |
| 110                     | 68.9                  | 212.5                          | 678,400                                        | 284,000 *                                        | 261,000 *                                      | 236,900 *                                      | 110                     |
| 115                     | 67.5                  | 210.4                          | 635,600                                        | 270,600 *                                        | 248,000 *                                      | 224,300 *                                      | 115                     |
| 120                     | 66.1                  | 208.2                          | 597,500                                        | 258,300 *                                        | 236,100 *                                      | 212,800 *                                      | 120                     |
| 125                     | 64.6                  | 205.9                          | 563,300                                        | 247,000 *                                        | 225,100 *                                      | 202,300 *                                      | 125                     |
| 130                     | 63.2                  | 203.4                          | 532,600                                        | 236,600 *                                        | 215,000 *                                      | 192,500 *                                      | 130                     |
| 135                     | 61.7                  | 200.7                          | 504,600                                        | 226,900 *                                        | 205,700 *                                      | 183,500 *                                      | 135                     |
| 140                     | 60.2                  | 197.9                          | 479,300                                        | 217,900 *                                        | 197,000 *                                      | 175,100 *                                      | 140                     |
| 145                     | 58.7                  | 194.9                          | 456,000                                        | 209,500 *                                        | 188,900 *                                      | 167,200 *                                      | 145                     |
| 150                     | 57.2                  | 191.7                          | 434,700                                        | 201,700 *                                        | 181,300 *                                      | 160,000 *                                      | 150                     |
| 155                     | 55.6                  | 188.3                          | 415,100                                        | 194,400 *                                        | 174,200 *                                      | 153,100 *                                      | 155                     |
| 160                     | 54.0                  | 184.7                          | 397,000                                        | 187,600 *                                        | 167,600 *                                      | 146,700 *                                      | 160                     |
| 165                     | 52.3                  | 180.9                          | 380,200                                        | 181,100 *                                        | 161,400 *                                      | 140,700 *                                      | 165                     |
| 170                     | 50.7                  | 176.8                          | 364,600                                        | 175,100 *                                        | 155,500 *                                      | 135,100 *                                      | 170                     |
| 175                     | 48.9                  | 172.5                          | 350,100                                        | 169,400 *                                        | 150,000 *                                      | 129,700 *                                      | 175                     |
| 180                     | 47.2                  | 167.9                          | 336,500                                        | 164,000 *                                        | 144,800 *                                      | 124,700 *                                      | 180                     |
| 185                     | 45.4                  | 163.1                          | 323,800                                        | 158,900 *                                        | 139,800 *                                      | 119,900 *                                      | 185                     |
| 190                     | 43.5                  | 157.9                          | 311,800                                        | 154,000 *                                        | 135,200 *                                      | 115,400 *                                      | 190                     |
| 195                     | 41.5                  | 152.3                          | 297,800 *                                      | 149,500 *                                        | 130,700 *                                      | 111,100 *                                      | 195                     |
| 200                     | 39.5                  | 146.3                          | 283,300 *                                      | 145,100 *                                        | 126,500 *                                      | 107,000 *                                      | 200                     |
| 205                     | 37.4                  | 139.9                          | 269,500 *                                      | 141,000 *                                        | 122,500 *                                      | 103,200 *                                      | 205                     |
| 210                     | 35.2                  | 133.0                          | 256,400 *                                      | 137,000 *                                        | 118,700 *                                      | 99,500 *                                       | 210                     |
| 215                     | 32.8                  | 125.4                          | 243,800 *                                      | 133,200 *                                        | 115,000 *                                      | 95,900 *                                       | 215                     |
| 220                     | 30.3                  | 117.1                          | 231,700 *                                      | 129,700 *                                        | 111,500 *                                      | 92,600 *                                       | 220                     |
| 225                     | 27.5                  | 107.8                          | 220,000 *                                      | 126,200 *                                        | 108,200 *                                      | 89,400 *                                       | 225                     |
| 230                     | 24.5                  | 97.4                           | 208,500 *                                      | 122,900 *                                        | 105,000 *                                      | 86,300 *                                       | 230                     |
| 235                     | 21.1                  | 85.2                           | 196,900 *                                      | 119,800 *                                        | 102,000 *                                      | 83,300 *                                       | 235                     |
| 240                     | 17.0                  | 70.2                           | 182,800 *                                      | 116,800 *                                        | 99,000 *                                       | 80,500 *                                       | 240                     |

# Manitowoc Cranes

Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Boom Capacities

## 4600 SERIES 4 RINGER SERIES 3

Boom No. 65  
60 ft RINGER Attachment On  
Blocking Or Pedestals  
123,000 lb Crane Counterweight  
889,300 lb Auxiliary Counterweight  
Barge Mount - 0 Degree thru 2 Degree Static Machine List  
360 Degree Rating

| Oper.<br>Radius<br>Feet | Boom<br>Angle<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | 0 Degree<br>List<br>Boom<br>Capacity<br>Pounds | 1/2 Degree<br>List<br>Boom<br>Capacity<br>Pounds | 1 Degree<br>List<br>Boom<br>Capacity<br>Pounds | 2 Degree<br>List<br>Boom<br>Capacity<br>Pounds | Oper.<br>Radius<br>Feet |
|-------------------------|-----------------------|--------------------------------|------------------------------------------------|--------------------------------------------------|------------------------------------------------|------------------------------------------------|-------------------------|
| 240.0 ft                |                       |                                |                                                |                                                  |                                                |                                                |                         |
| 65                      | 81.9                  | 245.2                          | 1,009,900 *                                    |                                                  |                                                |                                                | 65                      |
| 70                      | 80.6                  | 244.4                          | 992,400 *                                      | 458,900 *                                        |                                                |                                                | 70                      |
| 75                      | 79.4                  | 243.5                          | 975,000 *                                      | 426,600 *                                        | 398,100 *                                      |                                                | 75                      |
| 80                      | 78.2                  | 242.4                          | 957,700 *                                      | 398,300 *                                        | 370,700 *                                      | 341,900 *                                      | 80                      |
| 85                      | 77.0                  | 241.3                          | 940,700 *                                      | 373,400 *                                        | 346,600 *                                      | 318,600 *                                      | 85                      |
| 90                      | 75.8                  | 240.0                          | 917,000                                        | 351,200 *                                        | 325,200 *                                      | 297,900 *                                      | 90                      |
| 95                      | 74.5                  | 238.7                          | 843,100                                        | 331,400 *                                        | 306,000 *                                      | 279,400 *                                      | 95                      |
| 100                     | 73.3                  | 237.2                          | 779,500                                        | 313,500 *                                        | 288,700 *                                      | 262,800 *                                      | 100                     |
| 105                     | 72.0                  | 235.6                          | 724,300                                        | 297,400 *                                        | 273,100 *                                      | 247,700 *                                      | 105                     |
| 110                     | 70.8                  | 233.8                          | 675,900                                        | 282,700 *                                        | 258,900 *                                      | 234,000 *                                      | 110                     |
| 115                     | 69.5                  | 232.0                          | 633,100                                        | 269,300 *                                        | 245,900 *                                      | 221,500 *                                      | 115                     |
| 120                     | 68.2                  | 230.0                          | 595,000                                        | 257,000 *                                        | 234,000 *                                      | 210,000 *                                      | 120                     |
| 125                     | 66.9                  | 227.9                          | 560,800                                        | 245,700 *                                        | 223,100 *                                      | 199,500 *                                      | 125                     |
| 130                     | 65.6                  | 225.6                          | 530,000                                        | 235,200 *                                        | 213,000 *                                      | 189,800 *                                      | 130                     |
| 135                     | 64.3                  | 223.2                          | 502,100                                        | 225,600 *                                        | 203,700 *                                      | 180,700 *                                      | 135                     |
| 140                     | 62.9                  | 220.7                          | 476,700                                        | 216,600 *                                        | 195,000 *                                      | 172,400 *                                      | 140                     |
| 145                     | 61.6                  | 218.0                          | 453,500                                        | 208,300 *                                        | 186,900 *                                      | 164,600 *                                      | 145                     |
| 150                     | 60.2                  | 215.2                          | 432,200                                        | 200,500 *                                        | 179,400 *                                      | 157,300 *                                      | 150                     |
| 155                     | 58.8                  | 212.2                          | 412,600                                        | 193,200 *                                        | 172,300 *                                      | 150,500 *                                      | 155                     |
| 160                     | 57.4                  | 209.0                          | 394,500                                        | 186,300 *                                        | 165,700 *                                      | 144,100 *                                      | 160                     |
| 165                     | 56.0                  | 205.7                          | 377,700                                        | 179,900 *                                        | 159,500 *                                      | 138,100 *                                      | 165                     |
| 170                     | 54.5                  | 202.1                          | 362,100                                        | 173,800 *                                        | 153,600 *                                      | 132,500 *                                      | 170                     |
| 175                     | 53.0                  | 198.4                          | 347,500                                        | 168,100 *                                        | 148,100 *                                      | 127,100 *                                      | 175                     |
| 180                     | 51.5                  | 194.5                          | 333,900                                        | 162,800 *                                        | 142,900 *                                      | 122,100 *                                      | 180                     |
| 185                     | 49.9                  | 190.3                          | 321,200                                        | 157,700 *                                        | 138,000 *                                      | 117,400 *                                      | 185                     |
| 190                     | 48.3                  | 185.9                          | 309,300                                        | 152,800 *                                        | 133,300 *                                      | 112,900 *                                      | 190                     |
| 195                     | 46.7                  | 181.3                          | 298,100                                        | 148,300 *                                        | 128,900 *                                      | 108,600 *                                      | 195                     |
| 200                     | 45.0                  | 176.3                          | 287,500                                        | 143,900 *                                        | 124,700 *                                      | 104,500 *                                      | 200                     |
| 205                     | 43.3                  | 171.1                          | 277,600                                        | 139,800 *                                        | 120,600 *                                      | 100,600 *                                      | 205                     |
| 210                     | 41.5                  | 165.5                          | 267,500 *                                      | 135,800 *                                        | 116,800 *                                      | 97,000 *                                       | 210                     |
| 215                     | 39.7                  | 159.6                          | 255,000 *                                      | 132,100 *                                        | 113,200 *                                      | 93,500 *                                       | 215                     |
| 220                     | 37.7                  | 153.2                          | 243,100 *                                      | 128,500 *                                        | 109,700 *                                      | 90,100 *                                       | 220                     |
| 225                     | 35.7                  | 146.4                          | 231,800 *                                      | 125,000 *                                        | 106,400 *                                      | 86,900 *                                       | 225                     |
| 230                     | 33.6                  | 139.1                          | 220,900 *                                      | 121,800 *                                        | 103,200 *                                      | 83,800 *                                       | 230                     |
| 235                     | 31.4                  | 131.1                          | 210,400 *                                      | 118,600 *                                        | 100,200 *                                      | 80,900 *                                       | 235                     |
| 240                     | 28.9                  | 122.3                          | 200,200 *                                      | 115,600 *                                        | 97,300 *                                       | 78,100 *                                       | 240                     |
| 245                     | 26.3                  | 112.5                          | 190,200 *                                      | 112,700 *                                        | 94,500 *                                       | 75,400 *                                       | 245                     |
| 250                     | 23.4                  | 101.5                          | 180,400 *                                      | 109,900 *                                        | 91,800 *                                       | 72,800 *                                       | 250                     |
| 255                     | 20.1                  | 88.7                           | 170,500 *                                      | 107,300 *                                        | 89,200 *                                       | 70,300 *                                       | 255                     |
| 260                     | 16.2                  | 73.1                           | 158,900 *                                      | 104,700 *                                        | 86,700 *                                       | 67,900 *                                       | 260                     |

# Liftcrane Boom Capacities

## 4600 SERIES 4 RINGER SERIES 3

Boom No. 65  
 60 ft RINGER Attachment On  
 Blocking Or Pedestals  
 123,000 lb Crane Counterweight  
 889,300 lb Auxiliary Counterweight  
 Barge Mount - 0 Degree thru 2 Degree Static Machine List  
 360 Degree Rating

| Oper.<br>Radius<br>Feet | Boom<br>Angle<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | 0 Degree<br>List<br>Boom<br>Capacity<br>Pounds | 1/2 Degree<br>List<br>Boom<br>Capacity<br>Pounds | 1 Degree<br>List<br>Boom<br>Capacity<br>Pounds | 2 Degree<br>List<br>Boom<br>Capacity<br>Pounds | Oper.<br>Radius<br>Feet |
|-------------------------|-----------------------|--------------------------------|------------------------------------------------|--------------------------------------------------|------------------------------------------------|------------------------------------------------|-------------------------|
| 260.0 ft                |                       |                                |                                                |                                                  |                                                |                                                |                         |
| 70                      | 81.4                  | 264.7                          | 862,800 *                                      | 457,300 *                                        |                                                |                                                | 70                      |
| 75                      | 80.3                  | 263.8                          | 848,600 *                                      | 425,000 *                                        | 395,700 *                                      |                                                | 75                      |
| 80                      | 79.1                  | 262.9                          | 834,500 *                                      | 396,800 *                                        | 368,400 *                                      | 338,700 *                                      | 80                      |
| 85                      | 78.0                  | 261.8                          | 820,400 *                                      | 371,900 *                                        | 344,300 *                                      | 315,500 *                                      | 85                      |
| 90                      | 76.9                  | 260.7                          | 806,400 *                                      | 349,700 *                                        | 322,900 *                                      | 294,900 *                                      | 90                      |
| 95                      | 75.7                  | 259.4                          | 792,700 *                                      | 329,900 *                                        | 303,800 *                                      | 276,400 *                                      | 95                      |
| 100                     | 74.6                  | 258.0                          | 776,900                                        | 312,100 *                                        | 286,500 *                                      | 259,800 *                                      | 100                     |
| 105                     | 73.4                  | 256.6                          | 721,700                                        | 295,900 *                                        | 270,900 *                                      | 244,800 *                                      | 105                     |
| 110                     | 72.3                  | 255.0                          | 673,300                                        | 281,300 *                                        | 256,800 *                                      | 231,100 *                                      | 110                     |
| 115                     | 71.1                  | 253.3                          | 630,500                                        | 267,900 *                                        | 243,800 *                                      | 218,600 *                                      | 115                     |
| 120                     | 70.0                  | 251.5                          | 592,400                                        | 255,600 *                                        | 231,900 *                                      | 207,200 *                                      | 120                     |
| 125                     | 68.8                  | 249.6                          | 558,200                                        | 244,300 *                                        | 221,000 *                                      | 196,600 *                                      | 125                     |
| 130                     | 67.6                  | 247.5                          | 527,400                                        | 233,900 *                                        | 210,900 *                                      | 186,900 *                                      | 130                     |
| 135                     | 66.4                  | 245.3                          | 499,500                                        | 224,200 *                                        | 201,600 *                                      | 177,900 *                                      | 135                     |
| 140                     | 65.2                  | 243.0                          | 474,100                                        | 215,300 *                                        | 192,900 *                                      | 169,600 *                                      | 140                     |
| 145                     | 63.9                  | 240.6                          | 450,900                                        | 206,900 *                                        | 184,900 *                                      | 161,800 *                                      | 145                     |
| 150                     | 62.7                  | 238.1                          | 429,600                                        | 199,100 *                                        | 177,300 *                                      | 154,500 *                                      | 150                     |
| 155                     | 61.5                  | 235.4                          | 410,000                                        | 191,800 *                                        | 170,300 *                                      | 147,700 *                                      | 155                     |
| 160                     | 60.2                  | 232.5                          | 391,800                                        | 185,000 *                                        | 163,700 *                                      | 141,400 *                                      | 160                     |
| 165                     | 58.9                  | 229.5                          | 375,000                                        | 178,600 *                                        | 157,500 *                                      | 135,400 *                                      | 165                     |
| 170                     | 57.6                  | 226.4                          | 359,400                                        | 172,600 *                                        | 151,600 *                                      | 129,800 *                                      | 170                     |
| 175                     | 56.3                  | 223.1                          | 344,900                                        | 166,900 *                                        | 146,100 *                                      | 124,500 *                                      | 175                     |
| 180                     | 54.9                  | 219.6                          | 331,300                                        | 161,500 *                                        | 140,900 *                                      | 119,400 *                                      | 180                     |
| 185                     | 53.6                  | 215.9                          | 318,600                                        | 156,400 *                                        | 136,000 *                                      | 114,700 *                                      | 185                     |
| 190                     | 52.2                  | 212.1                          | 306,700                                        | 151,600 *                                        | 131,400 *                                      | 110,200 *                                      | 190                     |
| 195                     | 50.8                  | 208.0                          | 295,500                                        | 147,000 *                                        | 126,900 *                                      | 105,900 *                                      | 195                     |
| 200                     | 49.3                  | 203.8                          | 284,900                                        | 142,600 *                                        | 122,700 *                                      | 101,900 *                                      | 200                     |
| 205                     | 47.8                  | 199.3                          | 274,900                                        | 138,500 *                                        | 118,700 *                                      | 98,000 *                                       | 205                     |
| 210                     | 46.3                  | 194.6                          | 265,500                                        | 134,600 *                                        | 114,900 *                                      | 94,400 *                                       | 210                     |
| 215                     | 44.8                  | 189.6                          | 256,600                                        | 130,800 *                                        | 111,300 *                                      | 90,900 *                                       | 215                     |
| 220                     | 43.2                  | 184.3                          | 248,200                                        | 127,200 *                                        | 107,800 *                                      | 87,500 *                                       | 220                     |
| 225                     | 41.5                  | 178.8                          | 240,200                                        | 123,800 *                                        | 104,500 *                                      | 84,300 *                                       | 225                     |
| 230                     | 39.8                  | 172.8                          | 230,400 *                                      | 120,500 *                                        | 101,300 *                                      | 81,300 *                                       | 230                     |
| 235                     | 38.0                  | 166.6                          | 220,000 *                                      | 117,400 *                                        | 98,300 *                                       | 78,300 *                                       | 235                     |
| 240                     | 36.2                  | 159.8                          | 210,000 *                                      | 114,400 *                                        | 95,400 *                                       | 75,500 *                                       | 240                     |
| 245                     | 34.3                  | 152.6                          | 200,500 *                                      | 111,500 *                                        | 92,600 *                                       | 72,800 *                                       | 245                     |
| 250                     | 32.2                  | 144.9                          | 191,200 *                                      | 108,700 *                                        | 89,900 *                                       | 70,300 *                                       | 250                     |
| 255                     | 30.1                  | 136.5                          | 182,300 *                                      | 106,100 *                                        | 87,400 *                                       | 67,800 *                                       | 255                     |
| 260                     | 27.8                  | 127.3                          | 173,500 *                                      | 103,500 *                                        | 84,900 *                                       | 65,400 *                                       | 260                     |
| 270                     | 22.5                  | 105.5                          | 156,500 *                                      | 98,700 *                                         | 80,200 *                                       | 60,900 *                                       | 270                     |
| 280                     | 15.6                  | 75.8                           | 138,400 *                                      | 94,200 *                                         | 75,800 *                                       | 56,600 *                                       | 280                     |

# Liftcrane Boom Capacities

## 4600 SERIES 4 RINGER SERIES 3

Boom No. 65

60 ft RINGER Attachment On

Blocking Or Pedestals

123,000 lb Crane Counterweight

889,300 lb Auxiliary Counterweight

Barge Mount - 0 Degree thru 2 Degree Static Machine List

360 Degree Rating

| Oper.<br>Radius<br>Feet | Boom<br>Angle<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | 0 Degree<br>List<br>Boom<br>Capacity<br>Pounds | 1/2 Degree<br>List<br>Boom<br>Capacity<br>Pounds | 1 Degree<br>List<br>Boom<br>Capacity<br>Pounds | 2 Degree<br>List<br>Boom<br>Capacity<br>Pounds | Oper.<br>Radius<br>Feet |
|-------------------------|-----------------------|--------------------------------|------------------------------------------------|--------------------------------------------------|------------------------------------------------|------------------------------------------------|-------------------------|
| 280.0 ft                |                       |                                |                                                |                                                  |                                                |                                                |                         |
| 70                      | 82.0                  | 284.9                          | 759,800 *                                      |                                                  |                                                |                                                | 70                      |
| 75                      | 81.0                  | 284.1                          | 748,200 *                                      | 423,500 *                                        | 393,400 *                                      |                                                | 75                      |
| 80                      | 79.9                  | 283.2                          | 736,500 *                                      | 395,300 *                                        | 366,100 *                                      | 335,600 *                                      | 80                      |
| 85                      | 78.9                  | 282.3                          | 724,700 *                                      | 370,400 *                                        | 342,100 *                                      | 312,400 *                                      | 85                      |
| 90                      | 77.8                  | 281.2                          | 713,000 *                                      | 348,300 *                                        | 320,700 *                                      | 291,800 *                                      | 90                      |
| 95                      | 76.8                  | 280.0                          | 701,300 *                                      | 328,500 *                                        | 301,600 *                                      | 273,400 *                                      | 95                      |
| 100                     | 75.7                  | 278.8                          | 689,700 *                                      | 310,700 *                                        | 284,400 *                                      | 256,800 *                                      | 100                     |
| 105                     | 74.7                  | 277.4                          | 678,200 *                                      | 294,500 *                                        | 268,800 *                                      | 241,800 *                                      | 105                     |
| 110                     | 73.6                  | 276.0                          | 666,800 *                                      | 279,900 *                                        | 254,600 *                                      | 228,200 *                                      | 110                     |
| 115                     | 72.5                  | 274.4                          | 627,800                                        | 266,500 *                                        | 241,700 *                                      | 215,700 *                                      | 115                     |
| 120                     | 71.4                  | 272.7                          | 589,600                                        | 254,200 *                                        | 229,800 *                                      | 204,300 *                                      | 120                     |
| 125                     | 70.4                  | 271.0                          | 555,500                                        | 243,000 *                                        | 218,900 *                                      | 193,800 *                                      | 125                     |
| 130                     | 69.3                  | 269.1                          | 524,700                                        | 232,500 *                                        | 208,900 *                                      | 184,100 *                                      | 130                     |
| 135                     | 68.2                  | 267.1                          | 496,700                                        | 222,900 *                                        | 199,600 *                                      | 175,100 *                                      | 135                     |
| 140                     | 67.1                  | 265.0                          | 471,400                                        | 213,900 *                                        | 190,900 *                                      | 166,800 *                                      | 140                     |
| 145                     | 65.9                  | 262.8                          | 448,100                                        | 205,600 *                                        | 182,800 *                                      | 159,000 *                                      | 145                     |
| 150                     | 64.8                  | 260.4                          | 426,800                                        | 197,800 *                                        | 175,300 *                                      | 151,800 *                                      | 150                     |
| 155                     | 63.7                  | 258.0                          | 407,200                                        | 190,500 *                                        | 168,300 *                                      | 145,000 *                                      | 155                     |
| 160                     | 62.5                  | 255.4                          | 389,100                                        | 183,700 *                                        | 161,700 *                                      | 138,700 *                                      | 160                     |
| 165                     | 61.4                  | 252.7                          | 372,300                                        | 177,300 *                                        | 155,500 *                                      | 132,700 *                                      | 165                     |
| 170                     | 60.2                  | 249.8                          | 356,700                                        | 171,300 *                                        | 149,700 *                                      | 127,100 *                                      | 170                     |
| 175                     | 59.0                  | 246.8                          | 342,100                                        | 165,600 *                                        | 144,200 *                                      | 121,800 *                                      | 175                     |
| 180                     | 57.8                  | 243.7                          | 328,600                                        | 160,200 *                                        | 139,000 *                                      | 116,800 *                                      | 180                     |
| 185                     | 56.6                  | 240.4                          | 315,900                                        | 155,100 *                                        | 134,100 *                                      | 112,000 *                                      | 185                     |
| 190                     | 55.3                  | 237.0                          | 303,900                                        | 150,300 *                                        | 129,400 *                                      | 107,500 *                                      | 190                     |
| 195                     | 54.1                  | 233.4                          | 292,700                                        | 145,700 *                                        | 125,000 *                                      | 103,300 *                                      | 195                     |
| 200                     | 52.8                  | 229.6                          | 282,200                                        | 141,400 *                                        | 120,800 *                                      | 99,200 *                                       | 200                     |
| 205                     | 51.5                  | 225.7                          | 272,200                                        | 137,300 *                                        | 116,800 *                                      | 95,400 *                                       | 205                     |
| 210                     | 50.1                  | 221.6                          | 262,800                                        | 133,300 *                                        | 113,000 *                                      | 91,700 *                                       | 210                     |
| 215                     | 48.8                  | 217.2                          | 253,900                                        | 129,600 *                                        | 109,400 *                                      | 88,200 *                                       | 215                     |
| 220                     | 47.4                  | 212.7                          | 245,500                                        | 126,000 *                                        | 105,900 *                                      | 84,900 *                                       | 220                     |
| 225                     | 46.0                  | 207.9                          | 237,500                                        | 122,600 *                                        | 102,600 *                                      | 81,700 *                                       | 225                     |
| 230                     | 44.5                  | 202.9                          | 229,800                                        | 119,300 *                                        | 99,400 *                                       | 78,700 *                                       | 230                     |
| 235                     | 43.0                  | 197.6                          | 222,600                                        | 116,200 *                                        | 96,400 *                                       | 75,700 *                                       | 235                     |
| 240                     | 41.5                  | 192.0                          | 215,700                                        | 113,200 *                                        | 93,500 *                                       | 72,900 *                                       | 240                     |
| 245                     | 39.9                  | 186.1                          | 208,100 *                                      | 110,300 *                                        | 90,700 *                                       | 70,300 *                                       | 245                     |
| 250                     | 38.3                  | 179.9                          | 198,900 *                                      | 107,500 *                                        | 88,000 *                                       | 67,700 *                                       | 250                     |
| 255                     | 36.6                  | 173.2                          | 190,100 *                                      | 104,800 *                                        | 85,500 *                                       | 65,200 *                                       | 255                     |
| 260                     | 34.8                  | 166.2                          | 181,600 *                                      | 102,300 *                                        | 83,000 *                                       | 62,800 *                                       | 260                     |
| 270                     | 31.0                  | 150.5                          | 165,500 *                                      | 97,500 *                                         | 78,300 *                                       | 58,300 *                                       | 270                     |
| 280                     | 26.7                  | 132.0                          | 150,200 *                                      | 93,000 *                                         | 74,000 *                                       | 54,100 *                                       | 280                     |
| 290                     | 21.6                  | 109.3                          | 135,300 *                                      | 88,800 *                                         | 69,900 *                                       | 50,200 *                                       | 290                     |

# Liftcrane Boom Capacities

## 4600 SERIES 4 RINGER SERIES 3

Boom No. 65  
 60 ft RINGER Attachment On  
 Blocking Or Pedestals  
 123,000 lb Crane Counterweight  
 889,300 lb Auxiliary Counterweight  
 Barge Mount - 0 Degree thru 2 Degree Static Machine List  
 360 Degree Rating

| Oper.<br>Radius<br>Feet | Boom<br>Angle<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | 0 Degree<br>List<br>Boom<br>Capacity<br>Pounds | 1/2 Degree<br>List<br>Boom<br>Capacity<br>Pounds | 1 Degree<br>List<br>Boom<br>Capacity<br>Pounds | Oper.<br>Radius<br>Feet |
|-------------------------|-----------------------|--------------------------------|------------------------------------------------|--------------------------------------------------|------------------------------------------------|-------------------------|
| 300.0 ft                |                       |                                |                                                |                                                  |                                                |                         |
| 75                      | 81.6                  | 304.4                          | 653,500 *                                      |                                                  |                                                | 75                      |
| 80                      | 80.6                  | 303.5                          | 643,900 *                                      | 393,600 *                                        |                                                | 80                      |
| 85                      | 79.6                  | 302.6                          | 634,100 *                                      | 368,700 *                                        |                                                | 85                      |
| 90                      | 78.7                  | 301.6                          | 624,200 *                                      | 346,600 *                                        |                                                | 90                      |
| 95                      | 77.7                  | 300.6                          | 614,300 *                                      | 326,900 *                                        |                                                | 95                      |
| 100                     | 76.7                  | 299.4                          | 604,400 *                                      | 309,100 *                                        | 281,900 *                                      | 100                     |
| 105                     | 75.7                  | 298.1                          | 594,600 *                                      | 293,000 *                                        | 266,300 *                                      | 105                     |
| 110                     | 74.7                  | 296.8                          | 584,800 *                                      | 278,300 *                                        | 252,200 *                                      | 110                     |
| 115                     | 73.7                  | 295.3                          | 575,000 *                                      | 265,000 *                                        | 239,300 *                                      | 115                     |
| 120                     | 72.7                  | 293.8                          | 565,300 *                                      | 252,700 *                                        | 227,500 *                                      | 120                     |
| 125                     | 71.7                  | 292.1                          | 552,400 *                                      | 241,400 *                                        | 216,600 *                                      | 125                     |
| 130                     | 70.7                  | 290.4                          | 521,600 *                                      | 231,000 *                                        | 206,500 *                                      | 130                     |
| 135                     | 69.7                  | 288.6                          | 493,700 *                                      | 221,400 *                                        | 197,200 *                                      | 135                     |
| 140                     | 68.7                  | 286.6                          | 468,300 *                                      | 212,400 *                                        | 188,600 *                                      | 140                     |
| 145                     | 67.6                  | 284.6                          | 445,100 *                                      | 204,100 *                                        | 180,600 *                                      | 145                     |
| 150                     | 66.6                  | 282.4                          | 423,800 *                                      | 196,300 *                                        | 173,000 *                                      | 150                     |
| 155                     | 65.5                  | 280.2                          | 404,200 *                                      | 189,100 *                                        | 166,000 *                                      | 155                     |
| 160                     | 64.5                  | 277.8                          | 386,000 *                                      | 182,200 *                                        | 159,400 *                                      | 160                     |
| 165                     | 63.4                  | 275.3                          | 369,200 *                                      | 175,800 *                                        | 153,200 *                                      | 165                     |
| 170                     | 62.3                  | 272.7                          | 353,600 *                                      | 169,800 *                                        | 147,400 *                                      | 170                     |
| 175                     | 61.3                  | 270.0                          | 339,100 *                                      | 164,100 *                                        | 141,900 *                                      | 175                     |
| 180                     | 60.2                  | 267.1                          | 325,500 *                                      | 158,800 *                                        | 136,800 *                                      | 180                     |
| 185                     | 59.1                  | 264.2                          | 312,800 *                                      | 153,700 *                                        | 131,800 *                                      | 185                     |
| 190                     | 57.9                  | 261.1                          | 300,900 *                                      | 148,900 *                                        | 127,200 *                                      | 190                     |
| 195                     | 56.8                  | 257.8                          | 289,700 *                                      | 144,300 *                                        | 122,800 *                                      | 195                     |
| 200                     | 55.6                  | 254.4                          | 279,100 *                                      | 140,000 *                                        | 118,600 *                                      | 200                     |
| 205                     | 54.5                  | 250.9                          | 269,200 *                                      | 135,800 *                                        | 114,600 *                                      | 205                     |
| 210                     | 53.3                  | 247.2                          | 259,800 *                                      | 131,900 *                                        | 110,800 *                                      | 210                     |
| 215                     | 52.1                  | 243.3                          | 250,800 *                                      | 128,200 *                                        | 107,200 *                                      | 215                     |
| 220                     | 50.8                  | 239.3                          | 242,400 *                                      | 124,600 *                                        | 103,700 *                                      | 220                     |
| 225                     | 49.6                  | 235.0                          | 234,400 *                                      | 121,200 *                                        | 100,400 *                                      | 225                     |
| 230                     | 48.3                  | 230.6                          | 226,800 *                                      | 117,900 *                                        | 97,300 *                                       | 230                     |
| 235                     | 47.0                  | 226.0                          | 219,500 *                                      | 114,800 *                                        | 94,300 *                                       | 235                     |
| 240                     | 45.7                  | 221.2                          | 212,600 *                                      | 111,800 *                                        | 91,400 *                                       | 240                     |
| 245                     | 44.3                  | 216.1                          | 206,100 *                                      | 108,900 *                                        | 88,600 *                                       | 245                     |
| 250                     | 42.9                  | 210.8                          | 199,800 *                                      | 106,100 *                                        | 85,900 *                                       | 250                     |
| 255                     | 41.5                  | 205.2                          | 193,800 *                                      | 103,500 *                                        | 83,400 *                                       | 255                     |
| 260                     | 40.0                  | 199.3                          | 187,400 *                                      | 100,900 *                                        | 80,900 *                                       | 260                     |
| 270                     | 36.9                  | 186.6                          | 171,400 *                                      | 96,100 *                                         | 76,200 *                                       | 270                     |
| 280                     | 33.6                  | 172.2                          | 156,600 *                                      | 91,600 *                                         | 71,900 *                                       | 280                     |
| 290                     | 29.9                  | 155.8                          | 142,600 *                                      | 87,400 *                                         | 67,900 *                                       | 290                     |
| 300                     | 25.8                  | 136.6                          | 129,200 *                                      | 83,500 *                                         | 64,100 *                                       | 300                     |
| 310                     | 20.9                  | 113.0                          | 116,100 *                                      | 79,900 *                                         | 60,600 *                                       | 310                     |

# Liftcrane Boom Capacities

## 4600 SERIES 4 RINGER SERIES 3

Boom No. 65  
 60 ft RINGER Attachment On  
 Blocking Or Pedestals  
 123,000 lb Crane Counterweight  
 889,300 lb Auxiliary Counterweight  
 Barge Mount - 0 Degree thru 2 Degree Static Machine List  
 360 Degree Rating

| Oper.<br>Radius<br>Feet | Boom<br>Angle<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | 0 Degree<br>List<br>Boom<br>Capacity<br>Pounds | 1/2 Degree<br>List<br>Boom<br>Capacity<br>Pounds | 1 Degree<br>List<br>Boom<br>Capacity<br>Pounds | Oper.<br>Radius<br>Feet |
|-------------------------|-----------------------|--------------------------------|------------------------------------------------|--------------------------------------------------|------------------------------------------------|-------------------------|
| 320.0 ft                |                       |                                |                                                |                                                  |                                                |                         |
| 80                      | 81.2                  | 323.8                          | 567,200 *                                      |                                                  |                                                | 80                      |
| 85                      | 80.3                  | 323.0                          | 559,000 *                                      |                                                  |                                                | 85                      |
| 90                      | 79.4                  | 322.0                          | 550,700 *                                      | 345,300 *                                        |                                                | 90                      |
| 95                      | 78.5                  | 321.0                          | 542,300 *                                      | 325,600 *                                        |                                                | 95                      |
| 100                     | 77.5                  | 319.9                          | 533,900 *                                      | 307,800 *                                        |                                                | 100                     |
| 105                     | 76.6                  | 318.8                          | 525,400 *                                      | 291,700 *                                        |                                                | 105                     |
| 110                     | 75.7                  | 317.5                          | 517,000 *                                      | 277,100 *                                        | 250,300 *                                      | 110                     |
| 115                     | 74.8                  | 316.1                          | 508,500 *                                      | 263,700 *                                        | 237,400 *                                      | 115                     |
| 120                     | 73.8                  | 314.7                          | 500,100 *                                      | 251,500 *                                        | 225,600 *                                      | 120                     |
| 125                     | 72.9                  | 313.2                          | 491,700 *                                      | 240,200 *                                        | 214,700 *                                      | 125                     |
| 130                     | 72.0                  | 311.6                          | 483,300 *                                      | 229,800 *                                        | 204,700 *                                      | 130                     |
| 135                     | 71.0                  | 309.9                          | 475,000 *                                      | 220,200 *                                        | 195,400 *                                      | 135                     |
| 140                     | 70.1                  | 308.0                          | 465,900 *                                      | 211,200 *                                        | 186,800 *                                      | 140                     |
| 145                     | 69.1                  | 306.1                          | 442,700 *                                      | 202,900 *                                        | 178,700 *                                      | 145                     |
| 150                     | 68.1                  | 304.2                          | 421,400 *                                      | 195,100 *                                        | 171,200 *                                      | 150                     |
| 155                     | 67.2                  | 302.1                          | 401,800 *                                      | 187,900 *                                        | 164,200 *                                      | 155                     |
| 160                     | 66.2                  | 299.9                          | 383,700 *                                      | 181,100 *                                        | 157,600 *                                      | 160                     |
| 165                     | 65.2                  | 297.6                          | 366,900 *                                      | 174,700 *                                        | 151,500 *                                      | 165                     |
| 170                     | 64.2                  | 295.2                          | 351,200 *                                      | 168,600 *                                        | 145,600 *                                      | 170                     |
| 175                     | 63.2                  | 292.7                          | 336,700 *                                      | 163,000 *                                        | 140,200 *                                      | 175                     |
| 180                     | 62.2                  | 290.0                          | 323,100 *                                      | 157,600 *                                        | 135,000 *                                      | 180                     |
| 185                     | 61.2                  | 287.3                          | 310,400 *                                      | 152,500 *                                        | 130,100 *                                      | 185                     |
| 190                     | 60.2                  | 284.5                          | 298,500 *                                      | 147,700 *                                        | 125,400 *                                      | 190                     |
| 195                     | 59.1                  | 281.5                          | 287,300 *                                      | 143,200 *                                        | 121,000 *                                      | 195                     |
| 200                     | 58.1                  | 278.4                          | 276,700 *                                      | 138,800 *                                        | 116,900 *                                      | 200                     |
| 205                     | 57.0                  | 275.2                          | 266,800 *                                      | 134,700 *                                        | 112,900 *                                      | 205                     |
| 210                     | 55.9                  | 271.8                          | 257,400 *                                      | 130,800 *                                        | 109,100 *                                      | 210                     |
| 215                     | 54.8                  | 268.3                          | 248,500 *                                      | 127,000 *                                        | 105,500 *                                      | 215                     |
| 220                     | 53.7                  | 264.7                          | 240,000 *                                      | 123,500 *                                        | 102,000 *                                      | 220                     |
| 225                     | 52.6                  | 260.9                          | 232,000 *                                      | 120,000 *                                        | 98,700 *                                       | 225                     |
| 230                     | 51.4                  | 256.9                          | 224,400 *                                      | 116,800 *                                        | 95,600 *                                       | 230                     |
| 235                     | 50.3                  | 252.8                          | 217,200 *                                      | 113,700 *                                        | 92,600 *                                       | 235                     |
| 240                     | 49.1                  | 248.5                          | 210,300 *                                      | 110,700 *                                        | 89,700 *                                       | 240                     |
| 245                     | 47.9                  | 244.0                          | 203,700 *                                      | 107,800 *                                        | 86,900 *                                       | 245                     |
| 250                     | 46.7                  | 239.4                          | 197,400 *                                      | 105,000 *                                        | 84,200 *                                       | 250                     |
| 255                     | 45.4                  | 234.5                          | 191,400 *                                      | 102,400 *                                        | 81,700 *                                       | 255                     |
| 260                     | 44.1                  | 229.4                          | 185,600 *                                      | 99,800 *                                         | 79,200 *                                       | 260                     |
| 270                     | 41.5                  | 218.4                          | 174,800 *                                      | 95,000 *                                         | 74,600 *                                       | 270                     |
| 280                     | 38.7                  | 206.4                          | 162,100 *                                      | 90,500 *                                         | 70,200 *                                       | 280                     |
| 290                     | 35.7                  | 193.1                          | 148,300 *                                      | 86,400 *                                         | 66,200 *                                       | 290                     |
| 300                     | 32.5                  | 178.1                          | 135,300 *                                      | 82,500 *                                         | 62,500 *                                       | 300                     |
| 310                     | 28.9                  | 161.0                          | 123,100 *                                      | 78,800 *                                         | 58,900 *                                       | 310                     |
| 320                     | 24.9                  | 141.0                          | 111,200 *                                      | 75,400 *                                         | 55,600 *                                       | 320                     |
| 330                     | 20.2                  | 116.6                          | 99,000 *                                       | 72,200 *                                         | 52,500 *                                       | 330                     |

# Liftcrane Boom Capacities

## 4600 SERIES 4 RINGER SERIES 3

Boom No. 65  
 60 ft RINGER Attachment On  
 Blocking Or Pedestals  
 123,000 lb Crane Counterweight  
 889,300 lb Auxiliary Counterweight  
 Barge Mount - 0 Degree thru 2 Degree Static Machine List  
 360 Degree Rating

| Oper.<br>Radius<br>Feet | Boom<br>Angle<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | 0 Degree<br>List<br>Boom<br>Capacity<br>Pounds | 1/2 Degree<br>List<br>Boom<br>Capacity<br>Pounds |
|-------------------------|-----------------------|--------------------------------|------------------------------------------------|--------------------------------------------------|
| 340.0 ft                |                       |                                |                                                |                                                  |
| 80                      | 81.7                  | 344.1                          | 508,800 *                                      |                                                  |
| 85                      | 80.9                  | 343.3                          | 501,700 *                                      |                                                  |
| 90                      | 80.0                  | 342.4                          | 494,500 *                                      |                                                  |
| 95                      | 79.1                  | 341.5                          | 487,100 *                                      |                                                  |
| 100                     | 78.3                  | 340.4                          | 479,700 *                                      | 306,100 *                                        |
| 105                     | 77.4                  | 339.3                          | 472,100 *                                      | 290,100 *                                        |
| 110                     | 76.6                  | 338.1                          | 464,500 *                                      | 275,500 *                                        |
| 115                     | 75.7                  | 336.9                          | 456,900 *                                      | 262,100 *                                        |
| 120                     | 74.8                  | 335.5                          | 449,300 *                                      | 249,900 *                                        |
| 125                     | 73.9                  | 334.1                          | 441,700 *                                      | 238,600 *                                        |
| 130                     | 73.1                  | 332.6                          | 434,100 *                                      | 228,300 *                                        |
| 135                     | 72.2                  | 331.0                          | 426,500 *                                      | 218,600 *                                        |
| 140                     | 71.3                  | 329.3                          | 419,000 *                                      | 209,700 *                                        |
| 145                     | 70.4                  | 327.5                          | 411,500 *                                      | 201,400 *                                        |
| 150                     | 69.5                  | 325.7                          | 404,000 *                                      | 193,600 *                                        |
| 155                     | 68.6                  | 323.7                          | 396,600 *                                      | 186,400 *                                        |
| 160                     | 67.7                  | 321.7                          | 380,500 *                                      | 179,600 *                                        |
| 165                     | 66.8                  | 319.5                          | 363,700 *                                      | 173,200 *                                        |
| 170                     | 65.8                  | 317.3                          | 348,100 *                                      | 167,200 *                                        |
| 175                     | 64.9                  | 315.0                          | 333,600 *                                      | 161,500 *                                        |
| 180                     | 64.0                  | 312.5                          | 320,000 *                                      | 156,100 *                                        |
| 185                     | 63.0                  | 310.0                          | 307,300 *                                      | 151,100 *                                        |
| 190                     | 62.1                  | 307.4                          | 295,400 *                                      | 146,300 *                                        |
| 195                     | 61.1                  | 304.6                          | 284,200 *                                      | 141,700 *                                        |
| 200                     | 60.1                  | 301.8                          | 273,600 *                                      | 137,400 *                                        |
| 205                     | 59.2                  | 298.8                          | 263,600 *                                      | 133,300 *                                        |
| 210                     | 58.2                  | 295.7                          | 254,200 *                                      | 129,300 *                                        |
| 215                     | 57.2                  | 292.5                          | 245,300 *                                      | 125,600 *                                        |
| 220                     | 56.2                  | 289.2                          | 236,900 *                                      | 122,000 *                                        |
| 225                     | 55.1                  | 285.7                          | 228,900 *                                      | 118,600 *                                        |
| 230                     | 54.1                  | 282.1                          | 221,300 *                                      | 115,400 *                                        |
| 235                     | 53.0                  | 278.4                          | 214,000 *                                      | 112,200 *                                        |
| 240                     | 52.0                  | 274.5                          | 207,100 *                                      | 109,200 *                                        |
| 245                     | 50.9                  | 270.5                          | 200,600 *                                      | 106,400 *                                        |
| 250                     | 49.8                  | 266.3                          | 194,300 *                                      | 103,600 *                                        |
| 255                     | 48.7                  | 261.9                          | 188,300 *                                      | 101,000 *                                        |
| 260                     | 47.5                  | 257.4                          | 182,500 *                                      | 98,400 *                                         |
| 270                     | 45.2                  | 247.8                          | 171,700 *                                      | 93,600 *                                         |
| 280                     | 42.8                  | 237.3                          | 161,800 *                                      | 89,100 *                                         |
| 290                     | 40.2                  | 225.8                          | 151,800 *                                      | 85,000 *                                         |
| 300                     | 37.5                  | 213.2                          | 138,900 *                                      | 81,100 *                                         |
| 310                     | 34.6                  | 199.3                          | 126,800 *                                      | 77,400 *                                         |
| 320                     | 31.5                  | 183.8                          | 115,500 *                                      | 74,000 *                                         |
| 330                     | 28.1                  | 166.0                          | 104,600 *                                      | 70,800 *                                         |
| 340                     | 24.2                  | 145.3                          | 94,100 *                                       | 67,800 *                                         |
| 350                     | 19.6                  | 120.0                          | 83,600 *                                       | 65,000 *                                         |

# Liftcrane Boom Capacities

## 4600 SERIES 4 RINGER SERIES 3

Boom No. 65  
 60 ft RINGER Attachment On  
 Blocking Or Pedestals  
 123,000 lb Crane Counterweight  
 889,300 lb Auxiliary Counterweight  
 Barge Mount - 0 Degree thru 2 Degree Static Machine List  
 360 Degree Rating

| Oper.<br>Radius<br>Feet | Boom<br>Angle<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | 0 Degree<br>List<br>Boom<br>Capacity<br>Pounds | 1/2 Degree<br>List<br>Boom<br>Capacity<br>Pounds |
|-------------------------|-----------------------|--------------------------------|------------------------------------------------|--------------------------------------------------|
| 360.0 ft                |                       |                                |                                                |                                                  |
| 90                      | 80.6                  | 362.7                          | 434,300 *                                      |                                                  |
| 95                      | 79.8                  | 361.8                          | 428,000 *                                      |                                                  |
| 100                     | 78.9                  | 360.9                          | 421,700 *                                      |                                                  |
| 105                     | 78.1                  | 359.8                          | 415,200 *                                      | 288,800 *                                        |
| 110                     | 77.3                  | 358.7                          | 408,700 *                                      | 274,200 *                                        |
| 115                     | 76.5                  | 357.5                          | 402,100 *                                      | 260,900 *                                        |
| 120                     | 75.7                  | 356.2                          | 395,400 *                                      | 248,600 *                                        |
| 125                     | 74.9                  | 354.9                          | 388,800 *                                      | 237,400 *                                        |
| 130                     | 74.0                  | 353.5                          | 382,100 *                                      | 227,000 *                                        |
| 135                     | 73.2                  | 352.0                          | 375,400 *                                      | 217,400 *                                        |
| 140                     | 72.4                  | 350.4                          | 368,800 *                                      | 208,500 *                                        |
| 145                     | 71.5                  | 348.7                          | 362,100 *                                      | 200,200 *                                        |
| 150                     | 70.7                  | 347.0                          | 355,500 *                                      | 192,400 *                                        |
| 155                     | 69.8                  | 345.1                          | 348,800 *                                      | 185,200 *                                        |
| 160                     | 69.0                  | 343.2                          | 341,800 *                                      | 178,400 *                                        |
| 165                     | 68.1                  | 341.2                          | 334,900 *                                      | 172,000 *                                        |
| 170                     | 67.3                  | 339.2                          | 328,100 *                                      | 166,000 *                                        |
| 175                     | 66.4                  | 337.0                          | 321,300 *                                      | 160,300 *                                        |
| 180                     | 65.5                  | 334.7                          | 314,600 *                                      | 155,000 *                                        |
| 185                     | 64.6                  | 332.4                          | 304,800                                        | 149,900 *                                        |
| 190                     | 63.8                  | 329.9                          | 292,900                                        | 145,100 *                                        |
| 195                     | 62.9                  | 327.4                          | 281,700                                        | 140,500 *                                        |
| 200                     | 62.0                  | 324.7                          | 271,200                                        | 136,200 *                                        |
| 205                     | 61.1                  | 322.0                          | 261,200                                        | 132,100 *                                        |
| 210                     | 60.1                  | 319.1                          | 251,800                                        | 128,200 *                                        |
| 215                     | 59.2                  | 316.1                          | 242,900                                        | 124,500 *                                        |
| 220                     | 58.3                  | 313.1                          | 234,400                                        | 120,900 *                                        |
| 225                     | 57.3                  | 309.9                          | 226,400                                        | 117,500 *                                        |
| 230                     | 56.4                  | 306.6                          | 218,800                                        | 114,200 *                                        |
| 235                     | 55.4                  | 303.1                          | 211,600                                        | 111,100 *                                        |
| 240                     | 54.4                  | 299.6                          | 204,700                                        | 108,100 *                                        |
| 245                     | 53.4                  | 295.9                          | 198,100                                        | 105,200 *                                        |
| 250                     | 52.4                  | 292.1                          | 191,800                                        | 102,500 *                                        |
| 255                     | 51.4                  | 288.1                          | 185,800                                        | 99,800 *                                         |
| 260                     | 50.4                  | 284.0                          | 180,100                                        | 97,300 *                                         |
| 270                     | 48.3                  | 275.4                          | 169,300                                        | 92,500 *                                         |
| 280                     | 46.1                  | 266.0                          | 159,400                                        | 88,000 *                                         |
| 290                     | 43.9                  | 255.9                          | 150,200                                        | 83,900 *                                         |
| 300                     | 41.5                  | 244.9                          | 141,700                                        | 80,000 *                                         |
| 310                     | 39.0                  | 232.9                          | 130,500 *                                      | 76,400 *                                         |
| 320                     | 36.4                  | 219.9                          | 119,200 *                                      | 73,000 *                                         |
| 330                     | 33.6                  | 205.4                          | 108,600 *                                      | 69,800 *                                         |
| 340                     | 30.6                  | 189.2                          | 95,900 *                                       | 66,700 *                                         |
| 350                     | 27.2                  | 170.9                          | 72,300 *                                       | 63,900 *                                         |

# Liftcrane Boom Capacities

## 4600 SERIES 4 RINGER SERIES 3

Boom No. 65  
 60 ft RINGER Attachment On  
 Blocking Or Pedestals  
 123,000 lb Crane Counterweight  
 889,300 lb Auxiliary Counterweight  
 Barge Mount - 0 Degree thru 2 Degree Static Machine List  
 360 Degree Rating

| Oper.<br>Radius<br>Feet | Boom<br>Angle<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | 0 Degree<br>List<br>Boom<br>Capacity<br>Pounds |
|-------------------------|-----------------------|--------------------------------|------------------------------------------------|
| 380.0 ft                |                       |                                |                                                |
| 95                      | 80.3                  | 382.1                          | 385,100 *                                      |
| 100                     | 79.5                  | 381.2                          | 379,500 *                                      |
| 105                     | 78.8                  | 380.2                          | 373,700 *                                      |
| 110                     | 78.0                  | 379.2                          | 367,800 *                                      |
| 115                     | 77.2                  | 378.1                          | 361,800 *                                      |
| 120                     | 76.4                  | 376.9                          | 355,800 *                                      |
| 125                     | 75.7                  | 375.6                          | 349,700 *                                      |
| 130                     | 74.9                  | 374.2                          | 343,600 *                                      |
| 135                     | 74.1                  | 372.8                          | 337,400 *                                      |
| 140                     | 73.3                  | 371.3                          | 331,300 *                                      |
| 145                     | 72.5                  | 369.8                          | 325,100 *                                      |
| 150                     | 71.7                  | 368.1                          | 318,800 *                                      |
| 155                     | 70.9                  | 366.4                          | 312,500 *                                      |
| 160                     | 70.1                  | 364.6                          | 306,200 *                                      |
| 165                     | 69.3                  | 362.8                          | 299,900 *                                      |
| 170                     | 68.5                  | 360.8                          | 293,600 *                                      |
| 175                     | 67.7                  | 358.8                          | 287,200 *                                      |
| 180                     | 66.9                  | 356.6                          | 281,000 *                                      |
| 185                     | 66.1                  | 354.4                          | 274,700 *                                      |
| 190                     | 65.2                  | 352.1                          | 268,600 *                                      |
| 195                     | 64.4                  | 349.7                          | 262,400 *                                      |
| 200                     | 63.6                  | 347.3                          | 256,300 *                                      |
| 205                     | 62.7                  | 344.7                          | 250,100 *                                      |
| 210                     | 61.9                  | 342.0                          | 244,100 *                                      |
| 215                     | 61.0                  | 339.3                          | 238,100 *                                      |
| 220                     | 60.1                  | 336.4                          | 231,300                                        |
| 225                     | 59.3                  | 333.5                          | 223,300                                        |
| 230                     | 58.4                  | 330.4                          | 215,700                                        |
| 235                     | 57.5                  | 327.2                          | 208,500                                        |
| 240                     | 56.6                  | 324.0                          | 201,600                                        |
| 245                     | 55.7                  | 320.6                          | 195,000                                        |
| 250                     | 54.7                  | 317.0                          | 188,700                                        |
| 255                     | 53.8                  | 313.4                          | 182,700                                        |
| 260                     | 52.9                  | 309.6                          | 176,900                                        |
| 270                     | 50.9                  | 301.7                          | 166,200                                        |
| 280                     | 49.0                  | 293.2                          | 156,200                                        |
| 290                     | 46.9                  | 284.1                          | 147,100                                        |
| 300                     | 44.8                  | 274.3                          | 138,600                                        |
| 310                     | 42.6                  | 263.7                          | 130,700                                        |
| 320                     | 40.3                  | 252.3                          | 110,600 *                                      |
| 330                     | 37.9                  | 239.9                          | 88,600 *                                       |
| 340                     | 35.4                  | 226.3                          | 67,100 *                                       |

# Liftcrane Boom Capacities

## 4600 SERIES 4 RINGER SERIES 3

Boom No. 65  
 60 ft RINGER Attachment On  
 Blocking Or Pedestals  
 123,000 lb Crane Counterweight  
 889,300 lb Auxiliary Counterweight  
 Barge Mount - 0 Degree thru 2 Degree Static Machine List  
 360 Degree Rating

| Oper.<br>Radius<br>Feet | Boom<br>Angle<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | 0 Degree<br>List<br>Boom<br>Capacity<br>Pounds |
|-------------------------|-----------------------|--------------------------------|------------------------------------------------|
| 400.0 ft                |                       |                                |                                                |
| 95                      | 80.8                  | 402.4                          | 333,800 *                                      |
| 100                     | 80.1                  | 401.6                          | 329,100 *                                      |
| 105                     | 79.3                  | 400.6                          | 324,300 *                                      |
| 110                     | 78.6                  | 399.6                          | 319,300 *                                      |
| 115                     | 77.9                  | 398.6                          | 314,000 *                                      |
| 120                     | 77.1                  | 397.4                          | 308,400 *                                      |
| 125                     | 76.4                  | 396.2                          | 302,700 *                                      |
| 130                     | 75.7                  | 395.0                          | 296,900 *                                      |
| 135                     | 74.9                  | 393.6                          | 291,200 *                                      |
| 140                     | 74.2                  | 392.2                          | 285,400 *                                      |
| 145                     | 73.4                  | 390.7                          | 279,600 *                                      |
| 150                     | 72.7                  | 389.2                          | 273,800 *                                      |
| 155                     | 71.9                  | 387.5                          | 268,000 *                                      |
| 160                     | 71.2                  | 385.9                          | 262,200 *                                      |
| 165                     | 70.4                  | 384.1                          | 256,400 *                                      |
| 170                     | 69.6                  | 382.2                          | 250,600 *                                      |
| 175                     | 68.9                  | 380.3                          | 244,800 *                                      |
| 180                     | 68.1                  | 378.3                          | 239,000 *                                      |
| 185                     | 67.3                  | 376.2                          | 233,300 *                                      |
| 190                     | 66.6                  | 374.1                          | 227,700 *                                      |
| 195                     | 65.8                  | 371.9                          | 222,000 *                                      |
| 200                     | 65.0                  | 369.5                          | 216,300 *                                      |
| 205                     | 64.2                  | 367.1                          | 210,800 *                                      |
| 210                     | 63.4                  | 364.6                          | 205,200 *                                      |
| 215                     | 62.6                  | 362.0                          | 199,800 *                                      |
| 220                     | 61.8                  | 359.4                          | 194,400 *                                      |
| 225                     | 60.9                  | 356.6                          | 189,100 *                                      |
| 230                     | 60.1                  | 353.8                          | 183,800 *                                      |
| 235                     | 59.3                  | 350.8                          | 178,500 *                                      |
| 240                     | 58.5                  | 347.7                          | 173,300 *                                      |
| 245                     | 57.6                  | 344.6                          | 168,200 *                                      |
| 250                     | 56.7                  | 341.3                          | 163,100 *                                      |
| 255                     | 55.9                  | 338.0                          | 158,100 *                                      |
| 260                     | 55.0                  | 334.5                          | 153,100 *                                      |
| 270                     | 53.2                  | 327.2                          | 143,400 *                                      |
| 280                     | 51.4                  | 319.4                          | 133,900 *                                      |
| 290                     | 49.6                  | 311.0                          | 124,600 *                                      |
| 300                     | 47.6                  | 302.1                          | 113,700 *                                      |
| 310                     | 45.7                  | 292.6                          | 93,700 *                                       |
| 320                     | 43.6                  | 282.4                          | 74,100 *                                       |
| 330                     | 41.5                  | 271.4                          | 54,800 *                                       |