

# MANITOWOC ENGINEERING CO.

Division of The Manitowoc Company, Inc. Manitowoc, Wisconsin 54220



## LIFTCRANE CAPACITIES

MEETS  
ANSI B30.5  
REQUIREMENTS

**4600 SERIES 4**  
**RINGER SERIES 3**

**BOOM NO. 65 WITH TOP  
OFFSET 4-1/2 DEGREES  
60' RINGER ATTACHMENT ON  
BLOCKING OR PEDESTALS  
123,000 LB. CRANE COUNTERWEIGHT  
174,100 LB. AUXILIARY COUNTERWEIGHT  
360 DEGREE RATING**

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 LBS. FOR 1-1/4" WIRE ROPE, 45,000 LBS. FOR 1-3/8" WIRE ROPE AND 50,000 LBS. FOR 1-1/2" OR 1-5/8" WIRE ROPE. CAPACITIES FOR TWO PART LINE ARE 88,000 LBS. FOR 1-1/4" WIRE ROPE, 90,000 LBS. FOR 1-3/8" WIRE ROPE AND 100,000 LBS. FOR 1-1/2" OR 1-5/8" 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 THE 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.

MACHINE TO OPERATE ON A FIRM UNIFORMLY SUPPORTING SURFACE WITH ROLLER PATH LEVEL WITHIN A TOLERANCE OF 1-1/4" IN 60' AND PROPERLY SUPPORTED. REFER TO 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 IS THE HORIZONTAL DISTANCE FROM THE AXIS OF ROTATION TO THE CENTER OF VERTICAL HOIST LINE OR LOAD BLOCK. BOOM ANGLE IS THE 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 IS VERTICAL DISTANCE FROM GROUND LEVEL TO CENTERLINE OF BOOM POINT SHAFT.

MACHINE EQUIPPED WITH 60' RINGER ATTACHMENT, 30.5" CRAWLERS, 60" TREADS, 33' RETRACTABLE GANTRY, 130' MAST, 18 PART BOOM HOIST REEVING, EIGHT 1-3/8" BOOM PENDANTS, 123,000 LB. CRANE COUNTERWEIGHT (120,000 LBS. WITH COUNTERWEIGHT ASSEMBLY NO. 49667) AND 174,100 LB. AUXILIARY COUNTERWEIGHT.

MAXIMUM BOOM LENGTH LIFTED UNASSISTED  
IS 360'  
LOAD BLOCK, HOOK AND WEIGHT BALL ON  
GROUND AT START.  
JIB IS NOT TO BE USED ON AN OFFSET TOP.

**WARNING:** CHECK AMOUNT OF AUXILIARY COUNTERWEIGHT ON MACHINE BEFORE USE OF THIS CHART.

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | CAPACITY POUNDS | BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | CAPACITY POUNDS | BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | CAPACITY POUNDS |
|-----------------|-----------------|----------------|-----------------------|-----------------|-----------------|-----------------|----------------|-----------------------|-----------------|-----------------|-----------------|----------------|-----------------------|-----------------|
| <b>220</b>      | 65              | 82.2           | 225.1                 | 741,300         | <b>220</b>      | 195             | 42.7           | 152.5                 | 114,400         | <b>240</b>      | 145             | 62.6           | 218.2                 | 187,200         |
|                 | 70              | 80.9           | 224.2                 | 644,300         |                 | 200             | 40.6           | 146.5                 | 109,300         |                 | 150             | 61.2           | 215.3                 | 176,900         |
|                 | 75              | 79.5           | 223.2                 | 568,200         |                 | 205             | 38.5           | 140.1                 | 104,400         |                 | 155             | 59.8           | 212.3                 | 167,400         |
|                 | 80              | 78.2           | 222.1                 | 507,000         |                 | 210             | 36.3           | 133.2                 | 99,900          |                 | 160             | 58.4           | 209.1                 | 158,600         |
|                 | 85              | 76.9           | 220.8                 | 456,600         |                 | 215             | 33.9           | 125.6                 | 95,500          |                 | 165             | 57.0           | 205.8                 | 150,500         |
|                 | 90              | 75.5           | 219.4                 | 414,400         |                 | 220             | 31.4           | 117.3                 | 91,400          |                 | 170             | 55.5           | 202.3                 | 142,900         |
|                 | 95              | 74.2           | 217.9                 | 378,600         | <b>240</b>      | 225             | 28.7           | 108.1                 | 87,500          |                 | 175             | 54.0           | 198.5                 | 135,800         |
|                 | 100             | 72.8           | 216.3                 | 347,800         |                 | 230             | 25.7           | 97.7                  | 83,800          |                 | 180             | 52.5           | 194.6                 | 129,300         |
|                 | 105             | 71.4           | 214.5                 | 321,100         |                 | 235             | 22.2           | 85.5                  | 80,300          |                 | 185             | 51.0           | 190.5                 | 123,100         |
|                 | 110             | 70.0           | 212.6                 | 297,600         |                 | 240             | 18.2           | 70.6                  | 76,900          |                 | 190             | 49.4           | 186.1                 | 117,300         |
|                 | 115             | 68.6           | 210.5                 | 276,800         |                 | 65              | 82.8           | 245.3                 | 738,800         |                 | 195             | 47.7           | 181.4                 | 111,900         |
|                 | 120             | 67.2           | 208.3                 | 258,300         |                 | 70              | 81.6           | 244.5                 | 641,800         |                 | 200             | 46.1           | 176.5                 | 106,700         |
|                 | 125             | 65.7           | 206.0                 | 241,800         |                 | 75              | 80.4           | 243.6                 | 565,700         |                 | 205             | 44.3           | 171.3                 | 101,900         |
|                 | 130             | 64.3           | 203.5                 | 226,900         |                 | 80              | 79.2           | 242.6                 | 504,500         |                 | 210             | 42.5           | 165.7                 | 97,300          |
|                 | 135             | 62.8           | 200.8                 | 213,300         |                 | 85              | 78.0           | 241.4                 | 454,100         |                 | 215             | 40.7           | 159.8                 | 93,000          |
|                 | 140             | 61.3           | 198.0                 | 201,000         |                 | 90              | 76.8           | 240.2                 | 411,900         |                 | 220             | 38.8           | 153.4                 | 88,900          |
|                 | 145             | 59.8           | 195.0                 | 189,800         |                 | 95              | 75.5           | 238.8                 | 376,100         |                 | 225             | 36.8           | 146.6                 | 85,000          |
|                 | 150             | 58.3           | 191.8                 | 179,400         |                 | 100             | 74.3           | 237.3                 | 345,300         |                 | 230             | 34.6           | 139.3                 | 81,300          |
|                 | 155             | 56.7           | 188.4                 | 169,900         |                 | 105             | 73.0           | 235.7                 | 318,500         |                 | 235             | 32.4           | 131.3                 | 77,800          |
|                 | 160             | 55.1           | 184.8                 | 161,100         |                 | 110             | 71.8           | 234.0                 | 295,100         |                 | 240             | 30.0           | 122.5                 | 74,500          |
|                 | 165             | 53.4           | 181.0                 | 153,000         |                 | 115             | 70.5           | 232.1                 | 274,300         |                 | 245             | 27.4           | 112.8                 | 71,300          |
|                 | 170             | 51.8           | 177.0                 | 145,400         |                 | 120             | 69.2           | 230.1                 | 255,800         |                 | 250             | 24.5           | 101.8                 | 68,200          |
|                 | 175             | 50.1           | 172.7                 | 138,400         |                 | 125             | 67.9           | 228.0                 | 239,300         |                 | 255             | 21.2           | 89.0                  | 65,300          |
|                 | 180             | 48.3           | 168.1                 | 131,800         |                 | 130             | 66.6           | 225.8                 | 224,300         |                 | 260             | 17.3           | 73.5                  | 62,500          |
|                 | 185             | 46.5           | 163.2                 | 125,600         |                 | 135             | 65.3           | 223.4                 | 210,800         |                 |                 |                |                       |                 |
|                 | 190             | 44.6           | 158.0                 | 119,800         |                 | 140             | 63.9           | 220.8                 | 198,500         |                 |                 |                |                       |                 |

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|-----------------|-----------------|----------------|-----------------------|-----------------|-----------------|-----------------|----------------|-----------------------|-----------------|-----------------|-----------------|----------------|-----------------------|-----------------|---------|
| 260             | 70              | 82.3           | 264.8                 | 639,200         | 280             | 70              | 82.8           | 285.0                 | 636,500         | 300             | 180             | 61.0           | 267.3                 | 120,800         |         |
|                 | 75              | 81.2           | 263.9                 | 563,100         |                 | 75              | 81.8           | 284.2                 | 560,400         |                 | 185             | 59.9           | 264.3                 | 114,700         |         |
|                 | 80              | 80.0           | 263.0                 | 501,900         |                 | 80              | 80.8           | 283.3                 | 499,200         |                 | 190             | 58.7           | 261.2                 | 108,900         |         |
|                 | 85              | 78.9           | 261.9                 | 451,500         |                 | 85              | 79.7           | 282.4                 | 448,800         |                 | 195             | 57.6           | 257.9                 | 103,400         |         |
|                 | 90              | 77.8           | 260.8                 | 409,300         |                 | 90              | 78.7           | 281.3                 | 406,600         |                 | 200             | 56.4           | 254.5                 | 98,300          |         |
|                 | 95              | 76.7           | 259.5                 | 373,500         |                 | 95              | 77.6           | 280.1                 | 370,800         |                 | 205             | 55.3           | 251.0                 | 93,500          |         |
|                 | 100             | 75.5           | 258.1                 | 342,700         |                 | 100             | 76.6           | 278.9                 | 340,000         |                 | 210             | 54.1           | 247.3                 | 88,900          |         |
|                 | 105             | 74.4           | 256.7                 | 315,900         |                 | 105             | 75.5           | 277.5                 | 313,200         |                 | 215             | 52.9           | 243.4                 | 84,600          |         |
|                 | 110             | 73.2           | 255.1                 | 292,400         |                 | 110             | 74.5           | 276.1                 | 289,700         |                 | 220             | 51.6           | 239.4                 | 80,500          |         |
|                 | 115             | 72.0           | 253.4                 | 271,700         |                 | 115             | 73.4           | 274.5                 | 268,900         |                 | 225             | 50.4           | 235.2                 | 76,600          |         |
|                 | 120             | 70.9           | 251.6                 | 253,200         |                 | 120             | 72.3           | 272.8                 | 250,500         |                 | 230             | 49.1           | 230.8                 | 72,900          |         |
|                 | 125             | 69.7           | 249.7                 | 236,600         |                 | 125             | 71.2           | 271.1                 | 233,900         |                 | 235             | 47.8           | 226.1                 | 69,400          |         |
|                 | 130             | 68.5           | 247.6                 | 221,700         |                 | 130             | 70.1           | 269.2                 | 219,000         |                 | 240             | 46.5           | 221.3                 | 66,100          |         |
|                 | 135             | 67.3           | 245.4                 | 208,200         |                 | 135             | 69.0           | 267.2                 | 205,400         |                 | 245             | 45.1           | 216.3                 | 62,900          |         |
|                 | 140             | 66.1           | 243.2                 | 195,800         |                 | 140             | 67.9           | 265.1                 | 193,100         |                 | 250             | 43.7           | 210.9                 | 59,800          |         |
|                 | 145             | 64.9           | 240.7                 | 184,600         |                 | 145             | 66.8           | 262.9                 | 181,900         |                 | 255             | 42.3           | 205.4                 | 56,900          |         |
|                 | 150             | 63.6           | 238.2                 | 174,300         |                 | 150             | 65.7           | 260.5                 | 171,500         |                 | 260             | 40.8           | 199.5                 | 54,100          |         |
|                 | 155             | 62.4           | 235.5                 | 164,700         |                 | 155             | 64.5           | 258.1                 | 162,000         |                 | 265             | 39.3           | 193.3                 | 51,400          |         |
|                 | 160             | 61.1           | 232.6                 | 156,000         |                 | 160             | 63.4           | 255.5                 | 153,200         |                 | 320             | 75             | 82.8                  | 324.7           | 555,100 |
|                 | 165             | 59.8           | 229.6                 | 147,800         |                 | 165             | 62.2           | 252.8                 | 145,100         |                 |                 | 80             | 81.9                  | 323.9           | 493,800 |
|                 | 170             | 58.5           | 226.5                 | 140,200         |                 | 170             | 61.0           | 249.9                 | 137,500         |                 |                 | 85             | 81.0                  | 323.1           | 443,400 |
|                 | 175             | 57.2           | 223.2                 | 133,200         |                 | 175             | 59.8           | 247.0                 | 130,500         |                 |                 | 90             | 80.1                  | 322.1           | 401,200 |
|                 | 180             | 55.9           | 219.7                 | 126,600         |                 | 180             | 58.6           | 243.8                 | 123,900         |                 |                 | 95             | 79.2                  | 321.1           | 365,400 |
|                 | 185             | 54.5           | 216.1                 | 120,400         |                 | 185             | 57.4           | 240.6                 | 117,700         |                 |                 | 100            | 78.3                  | 320.0           | 334,600 |
|                 | 190             | 53.1           | 212.2                 | 114,700         |                 | 190             | 56.2           | 237.1                 | 111,900         |                 |                 | 105            | 77.4                  | 318.9           | 307,800 |
|                 | 195             | 51.7           | 208.2                 | 109,200         |                 | 195             | 54.9           | 233.5                 | 106,500         |                 |                 | 110            | 76.4                  | 317.6           | 284,300 |
|                 | 200             | 50.3           | 203.9                 | 104,100         |                 | 200             | 53.6           | 229.8                 | 101,400         |                 |                 | 115            | 75.5                  | 316.2           | 263,500 |
| 205             | 48.8            | 199.4          | 99,300                | 205             | 52.3            | 225.8           | 96,500         | 120                   | 74.6            | 314.8           |                 | 245,000        |                       |                 |         |
| 210             | 47.3            | 194.7          | 94,700                | 210             | 51.0            | 221.7           | 92,000         | 125                   | 73.7            | 313.3           | 228,500         |                |                       |                 |         |
| 215             | 45.7            | 189.7          | 90,400                | 215             | 49.7            | 217.4           | 87,700         | 130                   | 72.7            | 311.7           | 213,500         |                |                       |                 |         |
| 220             | 44.1            | 184.5          | 86,300                | 220             | 48.3            | 212.8           | 83,600         | 135                   | 71.8            | 310.0           | 200,000         |                |                       |                 |         |
| 225             | 42.5            | 178.9          | 82,400                | 225             | 46.9            | 208.0           | 79,700         | 140                   | 70.8            | 308.2           | 187,700         |                |                       |                 |         |
| 230             | 40.8            | 173.0          | 78,700                | 230             | 45.4            | 203.0           | 76,000         | 145                   | 69.9            | 306.3           | 176,400         |                |                       |                 |         |
| 235             | 39.0            | 166.7          | 75,200                | 235             | 43.9            | 197.7           | 72,500         | 150                   | 68.9            | 304.3           | 166,100         |                |                       |                 |         |
| 240             | 37.1            | 160.0          | 71,800                | 240             | 42.4            | 192.1           | 69,100         | 155                   | 67.9            | 302.2           | 156,600         |                |                       |                 |         |
| 245             | 35.2            | 152.8          | 68,600                | 245             | 40.8            | 186.2           | 65,900         | 160                   | 66.9            | 300.0           | 147,800         |                |                       |                 |         |
| 250             | 33.2            | 145.1          | 65,600                | 250             | 39.2            | 180.0           | 62,900         | 165                   | 66.0            | 297.7           | 139,600         |                |                       |                 |         |
| 255             | 31.0            | 136.7          | 62,700                | 255             | 37.5            | 173.4           | 59,900         | 170                   | 65.0            | 295.3           | 132,100         |                |                       |                 |         |
| 260             | 28.7            | 127.5          | 59,900                | 260             | 35.7            | 166.3           | 57,200         | 175                   | 64.0            | 292.8           | 125,000         |                |                       |                 |         |
| 265             | 26.2            | 117.3          | 57,200                | 265             | 33.9            | 158.8           | 54,500         | 180                   | 63.0            | 290.2           | 118,400         |                |                       |                 |         |
| 270             | 23.5            | 105.8          | 54,600                | 270             | 31.9            | 150.7           | 51,900         | 185                   | 61.9            | 287.4           | 112,300         |                |                       |                 |         |
| 275             | 20.3            | 92.4           | 52,100                | 300             | 75              | 82.4            | 304.5          | 557,500               | 190             | 60.9            | 284.6           | 106,500        |                       |                 |         |
| 340             | 360             | 380            | 400                   |                 | 80              | 81.4            | 303.7          | 496,200               | 195             | 59.9            | 281.6           | 101,000        |                       |                 |         |
|                 |                 |                |                       |                 | 85              | 80.4            | 302.7          | 445,800               | 200             | 58.8            | 278.5           | 95,900         |                       |                 |         |
|                 |                 |                |                       |                 | 90              | 79.4            | 301.8          | 403,600               | 205             | 57.7            | 275.3           | 91,100         |                       |                 |         |
|                 |                 |                |                       |                 | 95              | 78.5            | 300.7          | 367,700               | 210             | 56.7            | 271.9           | 86,500         |                       |                 |         |
|                 |                 |                |                       |                 | 100             | 77.5            | 299.5          | 336,900               | 215             | 55.6            | 268.4           | 82,200         |                       |                 |         |
|                 |                 |                |                       |                 | 105             | 76.5            | 298.2          | 310,200               | 220             | 54.5            | 264.8           | 78,100         |                       |                 |         |
|                 |                 |                |                       |                 | 110             | 75.5            | 296.9          | 286,700               | 225             | 53.3            | 261.0           | 74,200         |                       |                 |         |
|                 |                 |                |                       |                 | 115             | 74.5            | 295.4          | 265,900               | 230             | 52.2            | 257.0           | 70,500         |                       |                 |         |
|                 |                 |                |                       |                 | 120             | 73.5            | 293.9          | 247,400               | 235             | 51.0            | 252.9           | 67,000         |                       |                 |         |
|                 |                 |                |                       |                 | 125             | 72.5            | 292.2          | 230,900               | 240             | 49.9            | 248.6           | 63,700         |                       |                 |         |
| 130             | 71.5            | 290.5          | 215,900               | 245             | 48.7            | 244.1           | 60,500         |                       |                 |                 |                 |                |                       |                 |         |
| 135             | 70.5            | 288.7          | 202,400               | 250             | 47.4            | 239.5           | 57,400         |                       |                 |                 |                 |                |                       |                 |         |
| 140             | 69.5            | 286.7          | 190,100               | 255             | 46.2            | 234.6           | 54,500         |                       |                 |                 |                 |                |                       |                 |         |
| 145             | 68.4            | 284.7          | 178,800               | 260             | 44.9            | 229.5           | 51,700         |                       |                 |                 |                 |                |                       |                 |         |
| 150             | 67.4            | 282.5          | 168,500               | 320             | 340             | 360             | 380            | 400                   |                 | 150             | 67.4            | 282.5          | 168,500               |                 |         |
| 155             | 66.3            | 280.3          | 159,000               |                 |                 |                 |                |                       |                 | 155             | 66.3            | 280.3          | 159,000               |                 |         |
| 160             | 65.3            | 277.9          | 150,200               |                 |                 |                 |                |                       |                 | 160             | 65.3            | 277.9          | 150,200               |                 |         |
| 165             | 64.2            | 275.4          | 142,000               |                 |                 |                 |                |                       |                 | 165             | 64.2            | 275.4          | 142,000               |                 |         |
| 170             | 63.2            | 272.8          | 134,500               |                 |                 |                 |                |                       |                 | 170             | 63.2            | 272.8          | 134,500               |                 |         |
| 175             | 62.1            | 270.1          | 127,400               |                 |                 |                 |                |                       |                 |                 |                 |                |                       |                 |         |

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RINGER SERIES 3

| BOOM<br>LGTH.<br>FEET | OPER.<br>RAD.<br>FEET | BOOM<br>ANG.<br>DEG. | BOOM<br>POINT<br>ELEV.<br>FEET | CAPACITY<br>POUNDS | BOOM<br>LGTH.<br>FEET | OPER.<br>RAD.<br>FEET | BOOM<br>ANG.<br>DEG. | BOOM<br>POINT<br>ELEV.<br>FEET | CAPACITY<br>POUNDS |
|-----------------------|-----------------------|----------------------|--------------------------------|--------------------|-----------------------|-----------------------|----------------------|--------------------------------|--------------------|
| 340                   | 80                    | 82.4                 | 344.2                          | 490,800            | 360                   | 80                    | 82.8                 | 364.4                          | 443,800*           |
|                       | 85                    | 81.6                 | 343.4                          | 440,300            |                       | 85                    | 82.0                 | 363.6                          | 443,800*           |
|                       | 90                    | 80.7                 | 342.5                          | 398,100            |                       | 90                    | 81.2                 | 362.8                          | 395,700            |
|                       | 95                    | 79.8                 | 341.5                          | 362,300            |                       | 95                    | 80.4                 | 361.9                          | 359,900            |
|                       | 100                   | 79.0                 | 340.5                          | 331,500            |                       | 100                   | 79.6                 | 360.9                          | 329,000            |
|                       | 105                   | 78.1                 | 339.4                          | 304,700            |                       | 105                   | 78.8                 | 359.9                          | 302,300            |
|                       | 110                   | 77.3                 | 338.2                          | 281,200            |                       | 110                   | 78.0                 | 358.8                          | 278,800            |
|                       | 115                   | 76.4                 | 337.0                          | 260,400            |                       | 115                   | 77.2                 | 357.6                          | 258,000            |
|                       | 120                   | 75.5                 | 335.6                          | 241,900            |                       | 120                   | 76.3                 | 356.3                          | 239,500            |
|                       | 125                   | 74.6                 | 334.2                          | 225,400            |                       | 125                   | 75.5                 | 355.0                          | 222,900            |
|                       | 130                   | 73.8                 | 332.7                          | 210,400            |                       | 130                   | 74.7                 | 353.6                          | 208,000            |
|                       | 135                   | 72.9                 | 331.1                          | 196,900            |                       | 135                   | 73.9                 | 352.1                          | 194,500            |
|                       | 140                   | 72.0                 | 329.4                          | 184,600            |                       | 140                   | 73.0                 | 350.5                          | 182,100            |
|                       | 145                   | 71.1                 | 327.6                          | 173,300            |                       | 145                   | 72.2                 | 348.8                          | 170,900            |
|                       | 150                   | 70.2                 | 325.8                          | 163,000            |                       | 150                   | 71.3                 | 347.1                          | 160,500            |
|                       | 155                   | 69.3                 | 323.8                          | 153,500            |                       | 155                   | 70.5                 | 345.2                          | 151,000            |
|                       | 160                   | 68.4                 | 321.8                          | 144,700            |                       | 160                   | 69.6                 | 343.3                          | 142,200            |
|                       | 165                   | 67.5                 | 319.6                          | 136,500            |                       | 165                   | 68.8                 | 341.3                          | 134,100            |
|                       | 170                   | 66.5                 | 317.4                          | 129,000            |                       | 170                   | 67.9                 | 339.3                          | 126,500            |
|                       | 175                   | 65.6                 | 315.1                          | 121,900            |                       | 175                   | 67.1                 | 337.1                          | 119,500            |
|                       | 180                   | 64.7                 | 312.6                          | 115,300            |                       | 180                   | 66.2                 | 334.8                          | 112,900            |
|                       | 185                   | 63.7                 | 310.1                          | 109,100            |                       | 185                   | 65.3                 | 332.5                          | 106,700            |
|                       | 190                   | 62.8                 | 307.5                          | 103,400            |                       | 190                   | 64.4                 | 330.0                          | 100,900            |
|                       | 195                   | 61.8                 | 304.7                          | 97,900             |                       | 195                   | 63.5                 | 327.5                          | 95,500             |
|                       | 200                   | 60.9                 | 301.9                          | 92,800             |                       | 200                   | 62.6                 | 324.8                          | 90,400             |
|                       | 205                   | 59.9                 | 298.9                          | 88,000             |                       | 205                   | 61.7                 | 322.1                          | 85,500             |
|                       | 210                   | 58.9                 | 295.8                          | 83,400             |                       | 210                   | 60.8                 | 319.2                          | 81,000             |
|                       | 215                   | 57.9                 | 292.6                          | 79,100             |                       | 215                   | 59.9                 | 316.2                          | 76,600             |
|                       | 220                   | 56.9                 | 289.3                          | 75,000             |                       | 220                   | 58.9                 | 313.2                          | 72,500             |
|                       | 225                   | 55.8                 | 285.9                          | 71,100             |                       | 225                   | 58.0                 | 310.0                          | 68,700             |
|                       | 230                   | 54.8                 | 282.3                          | 67,400             |                       | 230                   | 57.0                 | 306.7                          | 65,000             |
|                       | 235                   | 53.8                 | 278.5                          | 63,900             |                       | 235                   | 56.1                 | 303.3                          | 61,400             |
|                       | 240                   | 52.7                 | 274.6                          | 60,600             |                       | 240                   | 55.1                 | 299.7                          | 58,100             |
|                       | 245                   | 51.6                 | 270.6                          | 57,400             |                       | 245                   | 54.1                 | 296.0                          | 54,900             |
|                       | 250                   | 50.5                 | 266.4                          | 54,300             |                       | 250                   | 53.1                 | 292.2                          | 51,900             |
|                       | 255                   | 49.4                 | 262.1                          | 51,400             |                       |                       |                      |                                |                    |