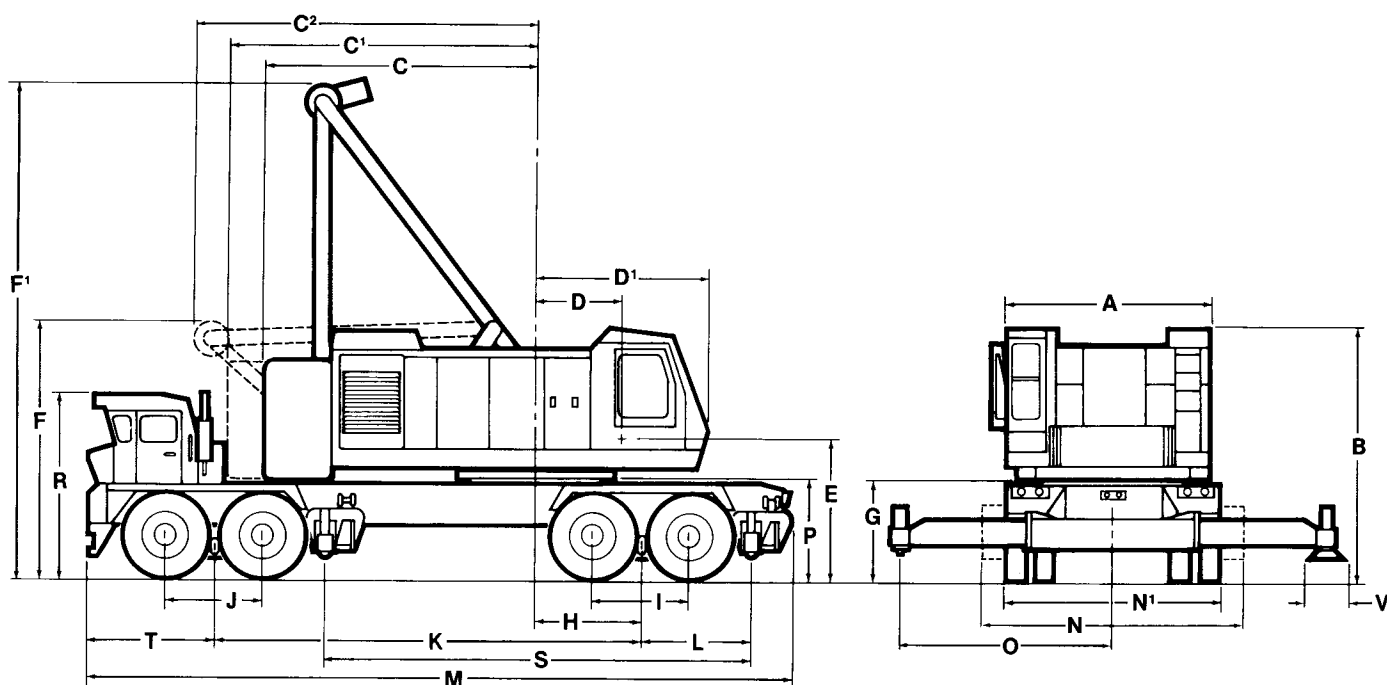




# 8470 CARRIER

## SPECIFICATION



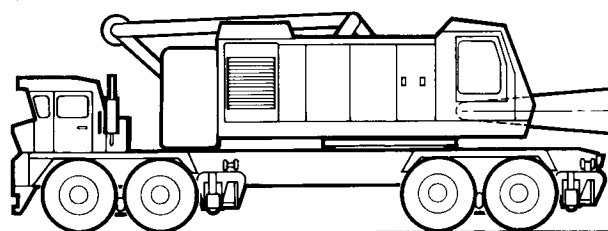
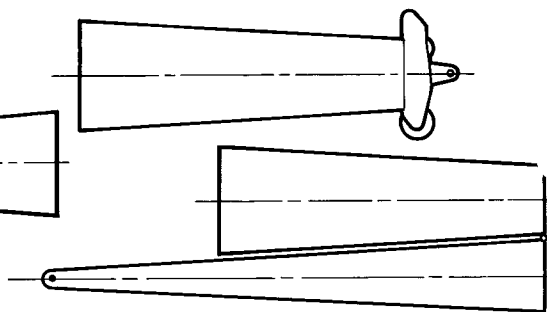
### GENERAL DIMENSIONS

|                                                   | Ft.    | MM       |                                                  | Ft.    | MM       |
|---------------------------------------------------|--------|----------|--------------------------------------------------|--------|----------|
| A. Width of Cab.....                              | 10'4"  | 3150 mm  | L. Centerline of Rear Bogie to                   |        |          |
| B. Height to Top of Cab .....                     | 13'0"  | 3962 mm  | Centerline of Rear Outrigger...                  | 6'3¾"  | 1924 mm  |
| C. Tailswing Over Cwt. Retracted ...              | 14'0"  | 4267 mm  | M. Overall Length .....                          | 36'1¼" | 11004 mm |
| C <sub>1</sub> . Tailswing Over Cwt. Extended ... | 16'0"  | 4876 mm  | N. Width Over Outriggers Retracted ..            | 13'0"  | 3962 mm  |
| C <sub>2</sub> . Tailswing Over A-Frame           |        |          | N <sub>1</sub> . Width, Outriggers Removed ..... | 11'0"  | 3352 mm  |
| Lowered .....                                     | 17'9½" | 54223 mm | O. Centerline of Rotation to Centerline          |        |          |
| D. Centerline of Rotation to                      |        |          | of Outrigger Jack, Extended ....                 | 12'0"  | 3657 mm  |
| Centerline of Boom Foot .....                     | 4'6"   | 1371 mm  | P. Height Over Mounting Plate .....              | 5'0½"  | 1536 mm  |
| D <sub>1</sub> . Centerline of Rotation           |        |          | R. Height Over Carrier Cab .....                 | 9'4"   | 2845 mm  |
| to Front of Cab.....                              | 8'10¾" | 2711 mm  | S. Centerline of Rear Outrigger to               |        |          |
| E. Ground to Centerline                           |        |          | Centerline of Front Outrigger ...                | 22'0"  | 6705 mm  |
| of Boom Foot .....                                | 7'2¾"  | 2203 mm  | T. Center of Rear Outrigger to                   |        |          |
| F. Height Over A-Frame Lowered ...                | 13'2"  | 4013 mm  | Rear of Carrier .....                            | 1'7½"  | 495 mm   |
| F <sub>1</sub> . Height Over A-Frame Raised ..... | 25'2"  | 7670 mm  | U. Distance from Front Bogie to                  |        |          |
| G. Ground to Bottom of Cwt. ....                  | 5'3½"  | 1613 mm  | Front Bumper .....                               | 6'2"   | 1879 mm  |
| H. Centerline of Rotation to                      |        |          | V. Outrigger Float Diameter .....                | 3'6"   | 1066 mm  |
| Centerline of Rear Bogie .....                    | 5'6¼"  | 1682 mm  | Turning Radius Over                              |        |          |
| I. Distance Between Rear Axles .....              | 5'0"   | 1524 mm  | Front Bumper .....                               | 65'0"  | 19812 mm |
| J. Distance Between Front Axles .....             | 5'0"   | 1524 mm  | Clearance Under Equalizing Beam ..               | 7½"    | 190 mm   |
| K. Centerline of Rear Bogie to Centerline         |        |          | Clearance Under Differential .....               | 12"    | 304 mm   |
| of Front Bogie (Wheelbase).....                   | 22'0"  | 6705 mm  |                                                  |        |          |



# 8470 TRAVELING WEIGHTS

X = IN PLACE  
O = REMOVED

**BOOM REARWARD\***

| A<br>Taper<br>Tip<br>Folded | B<br>Block | C<br>Outer<br>Boom<br>Hammer-<br>head | D<br>Inner<br>Boom | E<br>Counter-<br>weight<br>Retracted | F<br>Front<br>Out-<br>rigger | G<br>Rear<br>Out-<br>rigger | Front Tandem |       | Rear Tandem |       | Gross Weight |       |
|-----------------------------|------------|---------------------------------------|--------------------|--------------------------------------|------------------------------|-----------------------------|--------------|-------|-------------|-------|--------------|-------|
|                             |            |                                       |                    |                                      |                              |                             | Lbs.         | Kgs.  | Lbs.        | Kgs.  | Lbs.         | Kgs.  |
| O                           | X          | X                                     | X                  | X                                    | X                            | X                           | 73310        | 33255 | 144580      | 65580 | 217890       | 98835 |
| O                           | O          | X                                     | X                  | X                                    | X                            | X                           | 81490        | 36965 | 132800      | 60240 | 214290       | 97205 |
| X                           | O          | O                                     | X                  | X                                    | X                            | X                           | 91900        | 41685 | 118850      | 53910 | 210750       | 95595 |
| O                           | X          | X                                     | X                  | O                                    | X                            | X                           | 17850        | 8095  | 131540      | 59665 | 149390       | 67760 |
| O                           | O          | X                                     | X                  | O                                    | X                            | X                           | 26030        | 11805 | 119760      | 54325 | 145790       | 66130 |
| X                           | O          | O                                     | X                  | O                                    | X                            | X                           | 36440        | 16530 | 105800      | 47990 | 142240       | 64520 |
| O                           | X          | X                                     | X                  | O                                    | O                            | X                           | 8650         | 3925  | 127830      | 57985 | 136480       | 61910 |
| O                           | O          | X                                     | X                  | O                                    | O                            | X                           | 16830        | 7635  | 116060      | 52645 | 132890       | 60280 |
| X                           | O          | O                                     | X                  | O                                    | O                            | X                           | 27250        | 12360 | 102100      | 46315 | 129350       | 58675 |
| O                           | X          | X                                     | X                  | O                                    | X                            | O                           | 21330        | 9675  | 115960      | 52600 | 137290       | 62275 |
| O                           | O          | X                                     | X                  | O                                    | X                            | O                           | 29500        | 13380 | 104190      | 47260 | 133690       | 60640 |
| X                           | O          | O                                     | X                  | O                                    | X                            | O                           | 39920        | 18110 | 90230       | 40930 | 130150       | 59040 |
| O                           | X          | X                                     | X                  | O                                    | O                            | O                           | 12130        | 5500  | 112260      | 50920 | 124390       | 56420 |
| O                           | O          | X                                     | X                  | O                                    | O                            | O                           | 20300        | 9210  | 100480      | 45580 | 120780       | 54790 |
| X                           | O          | O                                     | X                  | O                                    | O                            | O                           | 36630        | 16615 | 76480       | 34690 | 113110       | 51305 |
| O                           | O          | O                                     | X                  | X                                    | X                            | X                           | 97820        | 44370 | 108790      | 49345 | 206610       | 93715 |
| O                           | O          | O                                     | X                  | O                                    | X                            | X                           | 42360        | 19215 | 95750       | 43430 | 138110       | 62645 |
| O                           | O          | O                                     | X                  | O                                    | O                            | X                           | 33160        | 15040 | 92050       | 41755 | 125210       | 56795 |
| O                           | O          | O                                     | X                  | O                                    | X                            | O                           | 45830        | 20790 | 80180       | 36370 | 126010       | 57160 |
| O                           | O          | O                                     | X                  | O                                    | O                            | O                           | 36630        | 16615 | 76480       | 34690 | 113110       | 51305 |
| O                           | O          | O                                     | O                  | X                                    | X                            | X                           | 105480       | 47845 | 91920       | 41695 | 197400       | 89540 |
| O                           | O          | O                                     | O                  | O                                    | X                            | X                           | 50030        | 22695 | 78880       | 35780 | 128910       | 58475 |
| O                           | O          | O                                     | O                  | O                                    | O                            | X                           | 40830        | 18520 | 75180       | 34100 | 116010       | 52620 |
| O                           | O          | O                                     | O                  | O                                    | X                            | O                           | 53500        | 24265 | 63310       | 28715 | 116810       | 52980 |
| O                           | O          | O                                     | O                  | O                                    | O                            | O                           | 44300        | 20095 | 59610       | 27040 | 103910       | 47135 |

\*NOTE: In all conditions the traveling weights for the front and rear tandem are more equally balanced with the boom foot facing the rear of the carrier.

NOTE: Due to back stability, full counterweight must not be swung over side of machine without outriggers extended and set.

## ADDITIONAL WEIGHT REDUCTION

| Item                                                   | Total<br>Weight<br>Adjustment<br>(Lb) | Effect Per Item         |                        | Items<br>Removed | Front<br>Tandem<br>(Lb) | Rear<br>Tandem<br>(Lb) | Gross<br>Weight<br>(Lb) |
|--------------------------------------------------------|---------------------------------------|-------------------------|------------------------|------------------|-------------------------|------------------------|-------------------------|
|                                                        |                                       | Front<br>Tandem<br>(Lb) | Rear<br>Tandem<br>(Lb) |                  |                         |                        |                         |
| H—Counterweight Beams<br>Rollers and Pins              | 2,380<br>(1080 kg)                    | —1560<br>(708 kg)       | — 820<br>(372 kg)      | A thru H         | 42740<br>(19385 kg)     | 58790<br>(26665 kg)    | 101530<br>(46055 kg)    |
| J—Laggings and Ropes,<br>Main Hoist Drums              | 4,770<br>(2164 kg)                    | —1430<br>(649 kg)       | —3340<br>(1575 kg)     | A thru J         | 41310<br>(18740 kg)     | 55450<br>(25150 kg)    | 96760<br>(43890 kg)     |
| K—Retractable A-Frame                                  | 4,700<br>(2132 kg)                    | —4070<br>(1846 kg)      | — 630<br>(286 kg)      | A thru K         | 37240<br>(16890 kg)     | 54820<br>(24865 kg)    | 92060<br>(41760 kg)     |
| L—25% Full Upper Fuel<br>Tank ... Was 50% Full         | 200<br>(91 kg)                        | — 130<br>(59 kg)        | — 70<br>(32 kg)        | A thru L         | 37110<br>(16835 kg)     | 54750                  | 91860<br>(41670 kg)     |
| M—Modular Operator's Cab                               | 470                                   | — 0                     | — 470                  | A thru M         | 37110<br>(16835 kg)     | 54280<br>(24620 kg)    | 91390<br>(41455 kg)     |
| Carrier with outriggers and swing bearing — less upper |                                       |                         |                        |                  | 28030<br>(12714 kg)     | 51470<br>(23346 kg)    | 79500<br>(36060 kg)     |
| Carrier with swing bearing — less upper and outriggers |                                       |                         |                        |                  | 22300<br>(10115 kg)     | 32200<br>(14605 kg)    | 54500<br>(24720 kg)     |

NOTE: Because of variable manufacturing tolerances a variance of  $\pm 3\%$  should be allowed on these weights.

SEE OPERATOR'S MANUAL FOR MAXIMUM MPH TRAVEL SPEED RESTRICTIONS AS LIMITED BY TIRE LOADS.



## 8470 CARRIER SPECIFICATIONS

Specifications for AMERICAN MODEL 8470, 180 ton (163.3 M.T.), 264" (6706 mm) wheelbase, 8 x 4 carrier.

**FRAME:** Box welded frame members designed and manufactured to provide adequate support for crane weight and capacities; high strength alloy steel used throughout the construction of the carrier; tow bars are provided front and rear.

**HYDRAULIC OUTRIGGERS:** Two independent housings fabricated from 100,000 PSI 689475.7 kPa yield steel; outrigger beams with horizontal and vertical hydraulic movements; automatic check and manual shutoff valves in hydraulic jacks to assure maximum safety for all lifts; hardened chrome plated rams, fitted with 42" (1.067 mm) dia. spun high strength steel floats, pin connected and removable; maximum stroke of vertical jacks is 12 inches (305 mm) maximum lift under floats is 7 inches (179 mm) outrigger controls for RH outriggers on RH side of carrier and controls for LH outriggers on LH side.

**ENGINE:** Detroit Diesel (GM) 6V92TAC model 8067-7440 diesel engine, 6-cylinder, 4.84" (123 mm) bore, 5" (127 mm) stroke, 552 cu. in. (9.046 cu. cm) displacement, rated 305 HP at 2100 RPM

**OPTIONAL ENGINE:** Cummins NTC-350 diesel engine, 6 cylinder, 5-1/2" (140 mm) bore x 6" (152 mm) stroke, 855 cu. in. (14.011 cu. cm) displacement, rated 350 HP at 2100 RPM thermostatically controlled radiator shutters.

**FUEL TANK:** One 125 (U.S.) gallon (473 L) safety fuel tank.

**ELECTRICAL:** 12 volt system; 500 watt alternator; two —8D 12 volt batteries.

**POWER STEERING:** Garrison twin-ram hydraulic power steering with Ross cam, 20" (508 mm) dia. steering wheel.

**CLUTCH:** Spicer AS 1402, two plate, dry type, angle spring clutch hydraulically actuated.

**MAIN TRANSMISSION:** Fuller Model T955ALL modified to give 5+1 speeds forward and 1+1 reverse.

### RATIOS:

|             |         |                |         |
|-------------|---------|----------------|---------|
| Low .....   | 26.54:1 | Fourth .....   | 1.16:1  |
| First ..... | 6.35:1  | Fifth .....    | 1.00:1  |
| Second ...  | 3.75:1  | Reverse .....  | 6.48:1  |
| Third ..... | 2.04:1  | Reverse Low .. | 27.09:1 |

**AUXILIARY TRANSMISSION:** Spicer Model 1241C, Four Speed.

### RATIOS:

|              |        |
|--------------|--------|
| First .....  | 2.37:1 |
| Second ..... | 1.24:1 |
| Third .....  | 1.00:1 |
| Fourth ..... | 0.81:1 |

**FRONT AXLES:** Shuler FTCA-34-L-30 in tandem. 48,000# highway capacity.

**REAR AXLES:** Clark planetary 91000 tandem assembly, non-spin differential on leading axle; ratio 9.00:1.

**SUSPENSION:** Hendrickson solid mount with rubber bushed torque rods front and rear.

**PROPEL SHAFT:** Spicer 1710 Series and 1810 Series.

**SERVICE BRAKES:** Air on all wheels with 14.5 C.F.M. air compressor and two reservoirs; lining area 20" (508 mm) x 7" (179 mm) (1000 sq. in., 6452 cm<sup>2</sup>) rear; 17-1/2" (445 mm) x 4" (102 mm) (495 sq. in., 3194 cm<sup>2</sup>) front; 1495 sq. in. (9645 cm<sup>2</sup>) total lining area.

**EMERGENCY BRAKES:** Spring set, air release system on both rear axles with operator's control on dash panel; air reservoir for release of spring set chambers.

**WHEELS:** Cast spoke front; rear integrally cast with axles; 10.00 x 24 rims.

**TIRES:** Michelin 14:00 x 24XVC.

**CAB:** One man cab 32" (813 mm) wide; fully enclosed offset to left side; hinged and removable panel for engine access; air cushion driver's seat.

**STANDARD EQUIPMENT:** West Coast type mirrors, air windshield wiper, windshield washer, heater, defroster, sealed beam oval headlights, front and rear directional signals, combination stop and taillights, backup lights, clearance lights on cab top and side, electrical and air horns, seat belts, dome light, indirect lighted instrument panel, speedometer, ammeter, fuel gauge, engine temperature indicator, air pressure gauge, oil pressure gauge, low air pressure warning signal, tachometer, and Tire Inflation Kit.

### OPTIONAL ACCESSORIES:

Jacobs Engine Brake  
Cold Weather Starting Kit  
Back-Up Alarm  
Front Outrigger  
Front Bumper Counterweight  
Spare Tire and Rim  
Closed Rigging Box  
Outrigger Float Racks  
Remote Control of Outriggers  
Remote Control of Carrier  
10 x 4 (Three Axles Front)  
12 x 4 (Three Axles Front Plus #4 Air Bag Axle)

### PERFORMANCE:

Maximum Governed Speed ..... 45 MPH (72 km/h)  
Minimum Speed (1000 RPM) .... 0.26 MPH (.42 km/h)  
Maximum Gradeability (Off Highway  
With Counterweight)..... 25%

**NOTE:** In accordance with varying material situations, and the Company's policy of constant product improvement, these specifications are subject to change without notice and without incurring responsibility to units previously sold.



# 800 SERIES MODEL 8470 TRUCK CRANE

## LIFT CRANE RATINGS IN POUNDS

With 77SL Tubular Chord Lattice Boom With Hammerhead and "A-B" Counterweight (68,000 lbs.) In Extended Position

| Boom Lgth. | Radius In Feet | Boom Angle Degrees | Free Over Side | Free Over Rear | Outriggers Set      |           | Feet From Boom Point |
|------------|----------------|--------------------|----------------|----------------|---------------------|-----------|----------------------|
|            |                |                    |                |                | Over Front* Or Side | Over Rear |                      |
| 50' boom   | 12             | 84.3               |                | 99,970         | 360,000             | 360,000   | 58                   |
|            | 13             | 83.1               |                | 96,140         | 360,000             | 360,000   | 58                   |
|            | 14             | 82.0               |                | 92,720         | 340,060             | 340,060   | 58                   |
|            | 15             | 80.9               |                | 89,530         | 317,410             | 317,410   | 58                   |
|            | 20             | 75.0               |                | 76,000         | 238,040             | 238,040   | 57                   |
|            | 25             | 69.0               |                | 65,740         | 190,480             | 190,480   | 55                   |
|            | 30             | 62.8               |                | 57,620         | 158,750             | 158,750   | 53                   |
|            | 35             | 56.0               |                | 51,070         | 122,740             | 126,950   | 50                   |
|            | 40             | 48.7               |                | 45,610         | 99,250              | 102,850   | 46                   |
|            | 50             | 29.7               |                | 37,150         | 70,800              | 73,580    | 32                   |
| 60' boom   | 13             | 84.3               |                | 95,150         | 360,000             | 360,000   | 68                   |
|            | 14             | 83.3               |                | 91,780         | 339,860             | 339,860   | 68                   |
|            | 15             | 82.4               |                | 88,620         | 317,230             | 317,230   | 68                   |
|            | 20             | 77.6               |                | 75,190         | 237,880             | 237,880   | 67                   |
|            | 25             | 72.6               |                | 65,050         | 190,360             | 190,360   | 65                   |
|            | 30             | 67.6               |                | 57,000         | 158,540             | 158,650   | 64                   |
|            | 35             | 62.3               |                | 50,530         | 122,990             | 127,190   | 61                   |
|            | 40             | 56.7               |                | 45,100         | 99,440              | 103,030   | 58                   |
|            | 50             | 44.1               |                | 36,740         | 70,960              | 73,740    | 50                   |
|            | 60             | 26.9               |                | 29,410         | 54,290              | 56,540    | 35                   |
| 70' boom   | 14             | 84.3               |                | 90,850         | 339,650             | 339,650   | 78                   |
|            | 15             | 83.4               |                | 87,730         | 317,040             | 317,040   | 78                   |
|            | 20             | 79.4               |                | 74,410         | 237,730             | 237,730   | 77                   |
|            | 25             | 75.2               |                | 64,350         | 190,240             | 190,240   | 76                   |
|            | 30             | 70.9               |                | 56,370         | 156,800             | 158,550   | 74                   |
|            | 35             | 66.5               |                | 49,950         | 123,090             | 127,280   | 72                   |
|            | 40             | 62.0               |                | 44,560         | 99,490              | 103,080   | 70                   |
|            | 50             | 52.1               | 21,770         | 36,300         | 70,990              | 73,760    | 63                   |
|            | 60             | 40.6               | 16,670         | 29,350         | 54,340              | 56,590    | 53                   |
|            | 70             | 24.7               | 12,840         | 23,320         | 43,330              | 45,220    | 37                   |
| 80' boom   | 14             | 85.0               |                | 89,810         | 338,560             | 339,450   | 88                   |
|            | 15             | 84.3               |                | 86,730         | 316,860             | 316,860   | 88                   |
|            | 20             | 80.7               |                | 73,500         | 237,580             | 237,580   | 87                   |
|            | 25             | 77.1               |                | 63,530         | 190,130             | 190,130   | 86                   |
|            | 30             | 73.4               |                | 55,600         | 155,250             | 158,450   | 85                   |
|            | 35             | 69.6               |                | 49,240         | 122,570             | 127,250   | 83                   |
|            | 40             | 65.7               |                | 43,880         | 99,410              | 102,990   | 81                   |
|            | 50             | 57.6               | 21,310         | 35,690         | 70,870              | 73,640    | 76                   |
|            | 60             | 48.5               | 16,280         | 29,130         | 54,230              | 56,480    | 68                   |
|            | 70             | 37.8               | 12,490         | 23,110         | 43,220              | 45,110    | 57                   |
| 90' boom   | 15             | 84.9               |                | 85,780         | 316,670             | 316,670   | 98                   |
|            | 20             | 81.7               |                | 72,640         | 237,430             | 237,430   | 97                   |
|            | 25             | 78.5               |                | 62,750         | 190,020             | 190,020   | 96                   |
|            | 30             | 75.3               |                | 54,890         | 153,640             | 158,360   | 95                   |
|            | 35             | 71.9               |                | 48,570         | 121,510             | 127,170   | 94                   |
|            | 40             | 68.6               |                | 43,230         | 99,280              | 102,860   | 92                   |
|            | 50             | 61.5               | 20,860         | 35,100         | 70,720              | 73,480    | 87                   |
|            | 60             | 54.0               | 15,860         | 28,870         | 54,070              | 56,320    | 81                   |
|            | 70             | 45.5               | 12,110         | 22,880         | 43,060              | 44,950    | 72                   |
|            | 80             | 35.5               | 9,220          | 18,460         | 35,250              | 36,890    | 60                   |
| 90' boom   | 90             | 21.6               | 6,980          | 15,130         | 29,490              | 30,920    | 41                   |

| Boom Lgth. | Radius In Feet | Boom Angle Degrees | Free Over Side | Free Over Rear | Outriggers Set      |           | Feet From Boom Point |
|------------|----------------|--------------------|----------------|----------------|---------------------|-----------|----------------------|
|            |                |                    |                |                | Over Front* Or Side | Over Rear |                      |
| 100' boom  | 16             | 84.8               |                | 83,230         | 247,040             | 247,040   | 108                  |
|            | 20             | 82.6               |                | 72,970         | 203,710             | 237,460   | 107                  |
|            | 25             | 79.7               |                | 63,120         | 163,240             | 190,080   | 107                  |
|            | 30             | 76.8               |                | 55,090         | 135,270             | 158,260   | 106                  |
|            | 35             | 73.8               |                | 48,800         | 115,410             | 127,420   | 104                  |
|            | 40             | 70.8               |                | 43,470         | 99,130              | 103,110   | 103                  |
|            | 50             | 64.6               | 21,140         | 35,360         | 70,970              | 73,740    | 98                   |
|            | 60             | 58.1               | 16,190         | 29,150         | 54,360              | 56,610    | 93                   |
|            | 70             | 50.9               | 12,450         | 23,160         | 43,350              | 45,250    | 86                   |
|            | 80             | 43.0               | 9,570          | 18,760         | 35,560              | 37,200    | 76                   |
| 110' boom  | 90             | 33.6               | 7,410          | 15,490         | 29,860              | 31,300    | 63                   |
|            | 100            | 20.4               | 5,500          | 12,780         | 25,320              | 26,600    | 42                   |
| 110' boom  | 17             | 84.8               |                | 79,410         | 234,050             | 234,050   | 118                  |
|            | 20             | 83.2               |                | 72,040         | 201,900             | 226,950   | 117                  |
|            | 25             | 80.6               |                | 62,270         | 161,600             | 189,990   | 117                  |
|            | 30             | 78.0               |                | 54,290         | 134,130             | 158,170   | 116                  |
|            | 35             | 75.3               |                | 48,030         | 114,350             | 127,300   | 115                  |
|            | 40             | 72.6               |                | 42,730         | 98,360              | 102,930   | 113                  |
|            | 50             | 67.1               | 20,600         | 34,690         | 70,770              | 73,530    | 109                  |
|            | 60             | 61.3               | 15,700         | 28,790         | 54,150              | 56,390    | 105                  |
|            | 70             | 55.1               | 11,960         | 22,840         | 43,110              | 45,000    | 98                   |
|            | 80             | 48.4               | 9,110          | 18,450         | 35,320              | 36,950    | 90                   |
| 120' boom  | 90             | 40.9               | 6,990          | 15,220         | 29,650              | 31,080    | 80                   |
|            | 100            | 31.9               | 5,130          | 12,530         | 25,120              | 26,400    | 66                   |
|            | 110            | 19.4               | 3,570          | 10,330         | 21,490              | 22,650    | 44                   |
| 120' boom  | 18             | 84.7               |                | 76,060         | 220,560             | 220,560   | 128                  |
|            | 20             | 83.8               |                | 71,180         | 199,990             | 216,990   | 128                  |
|            | 25             | 81.4               |                | 61,480         | 160,310             | 189,890   | 127                  |
|            | 30             | 79.0               |                | 53,520         | 132,960             | 158,070   | 126                  |
|            | 35             | 76.6               |                | 47,320         | 113,290             | 127,150   | 125                  |
|            | 40             | 74.1               | 27,460         | 42,240         | 97,790              | 102,950   | 124                  |
|            | 50             | 69.1               | 20,080         | 34,050         | 70,540              | 73,300    | 120                  |
|            | 60             | 63.9               | 15,200         | 28,190         | 53,900              | 56,140    | 116                  |
|            | 70             | 58.4               | 11,490         | 22,510         | 42,850              | 44,740    | 110                  |
|            | 80             | 52.6               | 8,650          | 18,120         | 35,050              | 36,680    | 103                  |
| 130' boom  | 90             | 46.2               | 6,570          | 14,920         | 29,400              | 30,840    | 95                   |
|            | 100            | 39.0               | 4,730          | 12,250         | 24,890              | 26,170    | 83                   |
|            | 110            | 30.5               | 3,200          | 10,070         | 21,280              | 22,440    | 69                   |
|            | 120            | 18.5               | 1,890          | 8,250          | 18,310              | 19,370    | 46                   |
| 130' boom  | 19             | 84.7               |                |                | 207,960             | 207,960   | 138                  |
|            | 20             | 84.3               |                |                | 198,080             | 206,060   | 138                  |
|            | 25             | 82.1               |                |                | 158,960             | 189,800   | 137                  |
|            | 30             | 79.8               |                |                | 131,780             | 157,980   | 136                  |
|            | 35             | 77.6               |                |                | 112,430             | 126,980   | 135                  |
|            | 40             | 75.3               |                |                | 96,990              | 102,750   | 134                  |
|            | 50             | 70.7               |                |                | 70,280              | 73,030    | 131                  |
|            | 60             | 66.0               |                |                | 53,620              | 55,870    | 127                  |
|            | 70             | 61.1               |                |                | 42,560              | 44,450    | 122                  |
|            | 80             | 55.9               |                |                | 34,740              | 36,370    | 116                  |
| 130' boom  | 90             | 50.3               |                |                | 29,100              | 30,540    | 108                  |
|            | 100            | 44.3               |                |                | 24,590              | 25,870    | 99                   |
|            | 110            | 37.4               |                |                | 20,980              | 22,140    | 87                   |
|            | 120            | 29.2               |                |                | 18,040              | 19,090    | 71                   |
|            | 130            | 17.8               |                |                | 15,570              | 16,540    | 47                   |

\*With Optional Front Bumper Outrigger

(continued)



# LIFT CRANE RATINGS IN POUNDS (cont.)

With 77SL Tubular Chord Lattice Boom With Hammerhead and "A-B"  
Counterweight (68,000 lbs.) In Extended Position

| Boom Lgth. | Radius In Feet | Boom Angle Degrees | Free Over Side | Free Over Rear | Outriggers Set      |           | Feet From Boom Point |
|------------|----------------|--------------------|----------------|----------------|---------------------|-----------|----------------------|
|            |                |                    |                |                | Over Front* Or Side | Over Rear |                      |
| 140' boom  | 20             | 84.7               |                |                | 190,730             | 190,730   | 148                  |
|            | 25             | 82.6               |                |                | 157,570             | 185,980   | 147                  |
|            | 30             | 80.6               |                |                | 130,560             | 157,880   | 146                  |
|            | 35             | 78.5               |                |                | 111,300             | 126,780   | 145                  |
|            | 40             | 76.4               |                |                | 96,190              | 102,520   | 144                  |
|            | 50             | 72.2               |                |                | 69,730              | 72,760    | 141                  |
|            | 60             | 67.8               |                |                | 53,340              | 55,580    | 138                  |
|            | 70             | 63.3               |                |                | 42,260              | 44,150    | 133                  |
|            | 80             | 58.6               |                |                | 34,430              | 36,060    | 128                  |
|            | 90             | 53.7               |                |                | 28,810              | 30,240    | 121                  |
|            | 100            | 48.4               |                |                | 24,290              | 25,570    | 113                  |
|            | 110            | 42.6               |                |                | 20,680              | 21,830    | 103                  |
|            | 120            | 36.0               |                |                | 17,740              | 18,790    | 90                   |
|            | 130            | 28.1               |                |                | 15,290              | 16,250    | 74                   |
|            | 140            | 17.1               |                |                | 13,190              | 14,090    | 49                   |
| 150' boom  | 26             | 82.7               |                |                | 145,930             | 145,930   | 157                  |
|            | 30             | 81.2               |                |                | 130,220             | 143,940   | 156                  |
|            | 35             | 79.3               |                |                | 110,790             | 126,730   | 156                  |
|            | 40             | 77.3               |                |                | 95,540              | 102,480   | 155                  |
|            | 50             | 73.4               |                |                | 69,400              | 72,720    | 152                  |
|            | 60             | 69.4               |                |                | 53,320              | 55,560    | 149                  |
|            | 70             | 65.2               |                |                | 42,240              | 44,130    | 144                  |
|            | 80             | 60.9               |                |                | 34,420              | 36,050    | 139                  |
|            | 90             | 56.4               |                |                | 28,820              | 30,260    | 133                  |
|            | 100            | 51.7               |                |                | 24,310              | 25,580    | 126                  |
|            | 110            | 46.6               |                |                | 20,710              | 21,860    | 117                  |
|            | 120            | 41.0               |                |                | 17,770              | 18,820    | 106                  |
|            | 130            | 34.7               |                |                | 15,320              | 16,290    | 93                   |
|            | 140            | 27.1               |                |                | 13,250              | 14,140    | 76                   |
|            | 150            | 16.4               |                |                | 11,460              | 12,300    | 50                   |
| 160' boom  | 27             | 82.8               |                |                | 134,540             | 134,540   | 167                  |
|            | 30             | 81.8               |                |                | 129,320             | 134,540   | 167                  |
|            | 35             | 79.9               |                |                | 109,840             | 126,560   | 166                  |
|            | 40             | 78.1               |                |                | 94,790              | 102,290   | 165                  |
|            | 50             | 74.4               |                |                | 68,870              | 72,460    | 162                  |
|            | 60             | 70.7               |                |                | 53,050              | 55,290    | 159                  |
|            | 70             | 66.9               |                |                | 41,950              | 43,840    | 155                  |
|            | 80             | 62.9               |                |                | 34,100              | 35,730    | 151                  |
|            | 90             | 58.8               |                |                | 28,530              | 29,960    | 145                  |
|            | 100            | 54.5               |                |                | 24,010              | 25,280    | 138                  |
|            | 110            | 49.9               |                |                | 20,400              | 21,550    | 130                  |
|            | 120            | 45.0               |                |                | 17,460              | 18,510    | 121                  |
|            | 130            | 39.6               |                |                | 15,010              | 15,980    | 110                  |
|            | 140            | 33.6               |                |                | 12,950              | 13,840    | 96                   |
|            | 150            | 26.2               |                |                | 11,170              | 12,000    | 78                   |
|            | 160            | 15.9               |                |                | 9,620               | 10,400    | 51                   |
| 170' boom  | 28             | 82.9               |                |                | 123,230             | 123,230   | 177                  |
|            | 30             | 82.2               |                |                | 123,230             | 123,230   | 177                  |
|            | 35             | 80.5               |                |                | 109,010             | 123,230   | 176                  |
|            | 40             | 78.8               |                |                | 93,980              | 102,080   | 175                  |
|            | 50             | 75.4               |                |                | 68,180              | 72,190    | 173                  |
|            | 60             | 71.9               |                |                | 52,660              | 55,000    | 170                  |
|            | 70             | 68.3               |                |                | 41,650              | 43,530    | 166                  |
|            | 80             | 64.6               |                |                | 33,790              | 35,420    | 162                  |
|            | 90             | 60.8               |                |                | 28,220              | 29,650    | 157                  |
|            | 100            | 56.9               |                |                | 23,700              | 24,980    | 150                  |
|            | 110            | 52.7               |                |                | 20,090              | 21,240    | 143                  |
|            | 120            | 48.3               |                |                | 17,140              | 18,190    | 135                  |
|            | 130            | 43.6               |                |                | 14,690              | 15,660    | 125                  |
|            | 140            | 38.4               |                |                | 12,620              | 13,510    | 113                  |
|            | 150            | 32.5               |                |                | 10,850              | 11,680    | 99                   |
|            | 160            | 25.4               |                |                | 9,310               | 10,090    | 81                   |
|            | 170            | 15.4               |                |                | 7,970               | 8,700     | 53                   |
| 180' boom  | 29             | 83.0               |                |                | 112,940             | 112,940   | 187                  |
|            | 30             | 82.7               |                |                | 112,940             | 112,940   | 187                  |
|            | 35             | 81.1               |                |                | 107,950             | 112,940   | 186                  |
|            | 40             | 79.5               |                |                | 93,160              | 101,850   | 185                  |
|            | 50             | 76.2               |                |                | 67,620              | 71,900    | 183                  |
|            | 60             | 72.9               |                |                | 52,160              | 54,710    | 180                  |
|            | 70             | 69.6               |                |                | 41,330              | 43,210    | 177                  |
|            | 80             | 66.1               |                |                | 33,460              | 35,080    | 173                  |
|            | 90             | 62.6               |                |                | 27,890              | 29,320    | 168                  |
|            | 100            | 58.9               |                |                | 23,360              | 24,630    | 162                  |
|            | 110            | 55.1               |                |                | 19,750              | 20,900    | 156                  |
|            | 120            | 51.1               |                |                | 16,800              | 17,850    | 148                  |
|            | 130            | 46.9               |                |                | 14,350              | 15,320    | 139                  |
|            | 140            | 42.3               |                |                | 12,270              | 13,170    | 129                  |
|            | 150            | 37.3               |                |                | 10,510              | 11,340    | 117                  |
|            | 160            | 31.6               |                |                | 8,960               | 9,740     | 102                  |
|            | 170            | 24.7               |                |                | 7,620               | 8,350     | 83                   |
|            | 180            | 14.9               |                |                | 6,430               | 7,120     | 54                   |

| Boom Lgth. | Radius In Feet | Boom Angle Degrees | Free Over Side | Free Over Rear | Outriggers Set      |           | Feet From Boom Point |
|------------|----------------|--------------------|----------------|----------------|---------------------|-----------|----------------------|
|            |                |                    |                |                | Over Front* Or Side | Over Rear |                      |
| 190' boom  | 31             | 82.8               |                |                | 104,390             | 104,390   | 197                  |
|            | 35             | 81.5               |                |                | 104,390             | 104,390   | 196                  |
|            | 40             | 80.0               |                |                | 92,380              | 101,620   | 195                  |
|            | 50             | 76.9               |                |                | 66,930              | 71,620    | 193                  |
|            | 60             | 73.8               |                |                | 51,650              | 54,410    | 191                  |
|            | 70             | 70.7               |                |                | 41,010              | 42,890    | 187                  |
|            | 80             | 67.4               |                |                | 33,120              | 34,740    | 184                  |
|            | 90             | 64.1               |                |                | 27,570              | 28,990    | 179                  |
|            | 100            | 60.7               |                |                | 23,020              | 24,300    | 174                  |
|            | 110            | 57.2               |                |                | 19,400              | 20,550    | 168                  |
|            | 120            | 53.5               |                |                | 16,460              | 17,510    | 161                  |
|            | 130            | 49.6               |                |                | 14,000              | 14,960    | 153                  |
|            | 140            | 45.5               |                |                | 11,930              | 12,820    | 144                  |
|            | 150            | 41.1               |                |                | 10,160              | 10,990    | 133                  |
|            | 160            | 36.2               |                |                | 8,620               | 9,390     | 120                  |
|            | 170            | 30.7               |                |                | 7,280               | 8,000     | 105                  |
|            | 180            | 24.0               |                |                | 6,100               | 6,780     | 85                   |
|            | 190            | 14.5               |                |                | 5,030               | 5,680     | 55                   |
| 200' boom  | 32             | 82.8               |                |                | 79,450              | 79,450    | 207                  |
|            | 35             | 82.0               |                |                | 79,450              | 79,450    | 206                  |
|            | 40             | 80.5               |                |                | 79,450              | 79,450    | 205                  |
|            | 50             | 77.6               |                |                | 66,480              | 71,450    | 204                  |
|            | 60             | 74.7               |                |                | 51,300              | 54,260    | 201                  |
|            | 70             | 71.7               |                |                | 40,700              | 42,740    | 198                  |
|            | 80             | 68.6               |                |                | 32,980              | 34,600    | 194                  |
|            | 90             | 65.5               |                |                | 27,450              | 28,880    | 190                  |
|            | 100            | 62.3               |                |                | 22,910              | 24,180    | 185                  |
|            | 110            | 59.0               |                |                | 19,290              | 20,440    | 180                  |
|            | 120            | 55.6               |                |                | 16,340              | 17,390    | 173                  |
|            | 130            | 52.1               |                |                | 13,900              | 14,860    | 166                  |
|            | 140            | 48.3               |                |                | 11,820              | 12,710    | 157                  |
|            | 150            | 44.3               |                |                | 10,050              | 10,880    | 148                  |
|            | 160            | 40.0               |                |                | 8,520               | 9,290     | 136                  |
|            | 170            | 35.3               |                |                | 7,190               | 7,910     | 123                  |
|            | 180            | 29.9               |                |                | 5,990               | 6,680     | 107                  |
|            | 190            | 23.4               |                |                | 4,950               | 5,590     | 87                   |
|            | 200            | 14.1               |                |                | 4,010               | 4,620     | 56                   |
| 210' boom  | 33             | 82.9               |                |                | 74,820              | 74,820    | 217                  |
|            | 35             | 82.4               |                |                | 74,800              | 74,800    | 216                  |
|            | 40             | 81.0               |                |                | 74,800              | 74,800    | 216                  |
|            | 50             | 78.2               |                |                | 65,950              | 71,180    | 214                  |
|            | 60             | 75.4               |                |                | 50,810              | 53,980    | 211                  |
|            | 70             | 72.6               |                |                | 40,230              | 42,440    | 209                  |
|            | 80             | 69.7               |                |                | 32,660              | 34,280    | 205                  |
|            | 90             | 66.8               |                |                | 27,140              | 28,560    | 201                  |
|            | 100            | 63.8               |                |                | 22,590              | 23,860    | 196                  |
|            | 110            | 60.7               |                |                | 18,970              | 20,120    | 191                  |
|            | 120            | 57.5               |                |                | 16,010              | 17,060    | 185                  |
|            | 130            | 54.2               |                |                | 13,560              | 14,520    | 178                  |
|            | 140            | 50.7               |                |                | 11,490              | 12,380    | 171                  |
|            | 150            | 47.1               |                |                | 9,710               | 10,540    | 162                  |
|            | 160            | 43.2               |                |                | 8,170               | 8,950     | 152                  |
|            | 170            | 39.0               |                |                | 6,830               | 7,560     | 140                  |
|            | 180            | 34.4               |                |                | 5,650               | 6,340     | 126                  |
|            | 190            | 29.1               |                |                | 4,600               | 5,250     | 110                  |
|            | 200            | 22.8               |                |                | 3,670               | 4,280     | 89                   |
|            | 210            | 13.8               |                |                | 2,820               | 3,410     | 57                   |
| 220' boom  | 34             | 83.0               |                |                | 69,920              | 69,920    | 227                  |
|            | 35             | 82.7               |                |                | 69,920              | 69,920    | 226                  |
|            | 40             | 81.4               |                |                | 69,860              | 69,860    | 226                  |
|            | 50             | 78.8               |                |                | 65,270              | 68,940    | 224                  |
|            | 60             | 76.1               |                |                | 50,310              | 53,690    | 222                  |
|            | 70             | 73.4               |                |                | 39,840              | 42,120    | 219                  |
|            | 80             | 70.6               |                |                | 32,200              | 33,950    | 216                  |
|            | 90             | 67.9               |                |                | 26,820              | 28,250    | 212                  |
|            | 100            | 65.0               |                |                | 22,270              | 23,540    | 208                  |
|            | 110            | 62.1               |                |                | 18,640              | 19,790    | 203                  |
|            | 120            | 59.1               |                |                | 15,680              | 16,730    | 197                  |
|            | 130            | 56.0               |                |                | 13,220              | 14,180    | 191                  |
|            | 140            | 52.8               |                |                | 11,140              | 12,030    | 183                  |
|            | 150            | 49.4               |                |                | 9,370               | 10,200    | 175                  |
|            | 160            | 45.9               |                |                | 7,840               | 8,610     | 166                  |
|            | 170            | 42.1               |                |                | 6,490               | 7,220     | 156                  |
|            | 180            | 38.1               |                |                | 5,310               | 5,990     | 143                  |
|            | 190            | 33.6               |                |                | 4,250               | 4,900     | 129                  |
|            | 200            | 28.4               |                |                | 3,320               | 3,930     | 112                  |
|            | 210            | 22.2               |                |                | 2,480               | 3,060     | 91                   |
|            | 220            | 13.4               |                |                | 1,720               | 2,270     | 59                   |



## LIFT CRANE RATINGS IN POUNDS (cont.)

With 77SL Tubular Chord Lattice Boom With Hammerhead and "A-B"  
Counterweight (68,000 lbs.) In Extended Position

| Boom<br>Lgth. | Radius<br>In<br>Feet | Boom<br>Angle<br>Degrees | Free<br>Over<br>Side | Free<br>Over<br>Rear | Outriggers Set         |              | Feet<br>From<br>Boom<br>Point |
|---------------|----------------------|--------------------------|----------------------|----------------------|------------------------|--------------|-------------------------------|
|               |                      |                          |                      |                      | Over Front*<br>Or Side | Over<br>Rear |                               |
| 230'<br>boom  | 36                   | 82.8                     |                      |                      | 64,050                 | 64,050       | 236                           |
|               | 40                   | 81.8                     |                      |                      | 64,040                 | 64,040       | 236                           |
|               | 50                   | 79.2                     |                      |                      | 63,190                 | 63,190       | 234                           |
|               | 60                   | 76.7                     |                      |                      | 49,820                 | 53,380       | 232                           |
|               | 70                   | 74.1                     |                      |                      | 39,360                 | 41,800       | 229                           |
|               | 80                   | 71.5                     |                      |                      | 32,130                 | 34,010       | 226                           |
|               | 90                   | 68.9                     |                      |                      | 26,440                 | 27,910       | 223                           |
|               | 100                  | 66.2                     |                      |                      | 21,930                 | 23,200       | 219                           |
|               | 110                  | 63.4                     |                      |                      | 18,290                 | 19,440       | 214                           |
|               | 120                  | 60.6                     |                      |                      | 15,330                 | 16,380       | 208                           |
|               | 130                  | 57.7                     |                      |                      | 12,870                 | 13,830       | 202                           |
|               | 140                  | 54.7                     |                      |                      | 10,780                 | 11,670       | 196                           |
|               | 150                  | 51.6                     |                      |                      | 9,010                  | 9,840        | 188                           |
|               | 160                  | 48.3                     |                      |                      | 7,470                  | 8,240        | 180                           |
|               | 170                  | 44.8                     |                      |                      | 6,120                  | 6,850        | 170                           |
|               | 180                  | 41.2                     |                      |                      | 4,940                  | 5,620        | 159                           |
|               | 190                  | 37.2                     |                      |                      | 3,890                  | 4,530        | 147                           |
|               | 200                  | 32.8                     |                      |                      | 2,950                  | 3,560        | 132                           |
|               | 210                  | 27.8                     |                      |                      | 2,100                  | 2,680        | 115                           |
|               | 220                  | 21.7                     |                      |                      | 1,330                  | 1,890        | 93                            |

| Boom<br>Lgth. | Radius<br>In<br>Feet | Boom<br>Angle<br>Degrees | Free<br>Over<br>Side | Free<br>Over<br>Rear | Outriggers Set         |              | Feet<br>From<br>Boom<br>Point |
|---------------|----------------------|--------------------------|----------------------|----------------------|------------------------|--------------|-------------------------------|
|               |                      |                          |                      |                      | Over Front*<br>Or Side | Over<br>Rear |                               |
| 240'<br>boom  | 37                   | 82.8                     |                      |                      | 59,860                 | 59,860       | 246                           |
|               | 40                   | 82.1                     |                      |                      | 59,710                 | 59,710       | 246                           |
|               | 50                   | 79.7                     |                      |                      | 58,700                 | 58,700       | 244                           |
|               | 60                   | 77.3                     |                      |                      | 49,210                 | 53,090       | 242                           |
|               | 70                   | 74.8                     |                      |                      | 38,790                 | 41,470       | 240                           |
|               | 80                   | 72.3                     |                      |                      | 31,750                 | 33,700       | 237                           |
|               | 90                   | 69.8                     |                      |                      | 26,000                 | 27,580       | 233                           |
|               | 100                  | 67.2                     |                      |                      | 21,540                 | 22,860       | 229                           |
|               | 110                  | 64.6                     |                      |                      | 17,950                 | 19,090       | 225                           |
|               | 120                  | 61.9                     |                      |                      | 14,980                 | 16,020       | 220                           |
|               | 130                  | 59.2                     |                      |                      | 12,510                 | 13,470       | 214                           |
|               | 140                  | 56.4                     |                      |                      | 10,430                 | 11,310       | 208                           |
|               | 150                  | 53.4                     |                      |                      | 8,640                  | 9,470        | 201                           |
|               | 160                  | 50.4                     |                      |                      | 7,110                  | 7,880        | 193                           |
|               | 170                  | 47.2                     |                      |                      | 5,750                  | 6,480        | 184                           |
|               | 180                  | 43.8                     |                      |                      | 4,570                  | 5,250        | 174                           |
|               | 190                  | 40.3                     |                      |                      | 3,500                  | 4,160        | 163                           |
|               | 200                  | 36.4                     |                      |                      | 2,550                  | 3,190        | 150                           |
|               | 210                  | 32.1                     |                      |                      | 1,690                  | 2,310        | 135                           |
|               | 220                  | 27.2                     |                      |                      |                        | 1,530        | 117                           |

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\*With Optional Front Bumper Outrigger

## LIFT CRANE RATINGS IN POUNDS

With 77SL Tubular Chord Lattice Boom With Tapered Tip and "A-B"  
Counterweight (68,000 lbs.) In Extended Position

| Boom<br>Lgth. | Radius<br>In<br>Feet | Boom<br>Angle<br>Degrees | Free<br>Over<br>Side | Free<br>Over<br>Rear | Outriggers Set         |              | Feet<br>From<br>Boom<br>Point |
|---------------|----------------------|--------------------------|----------------------|----------------------|------------------------|--------------|-------------------------------|
|               |                      |                          |                      |                      | Over Front*<br>Or Side | Over<br>Rear |                               |
| 80'<br>boom   | 18                   | 80.3                     |                      | 82,610               | 176,410                | 176,410      | 86                            |
|               | 20                   | 78.8                     |                      | 77,700               | 176,410                | 176,410      | 86                            |
|               | 25                   | 75.1                     |                      | 67,650               | 160,780                | 160,780      | 85                            |
|               | 30                   | 71.4                     |                      | 59,630               | 133,880                | 133,880      | 83                            |
|               | 35                   | 67.6                     |                      | 53,300               | 114,800                | 114,800      | 81                            |
|               | 40                   | 63.7                     |                      | 47,980               | 100,400                | 100,400      | 79                            |
|               | 50                   | 55.3                     |                      | 39,860               | 73,860                 | 76,630       | 73                            |
|               | 60                   | 46.1                     |                      | 32,400               | 57,390                 | 59,640       | 65                            |
| 90'<br>boom   | 70                   | 35.0                     |                      | 26,500               | 46,520                 | 48,420       | 53                            |
|               | 80                   | 19.3                     |                      | 22,180               | 38,850                 | 40,480       | 34                            |
|               | 19                   | 80.7                     |                      | 79,170               | 176,410                | 176,410      | 96                            |
|               | 20                   | 80.1                     |                      | 76,800               | 176,410                | 176,410      | 96                            |
|               | 25                   | 76.8                     |                      | 66,810               | 160,680                | 160,680      | 95                            |
|               | 30                   | 73.5                     |                      | 58,830               | 133,780                | 133,780      | 94                            |
|               | 35                   | 70.2                     |                      | 52,560               | 114,720                | 114,720      | 92                            |
|               | 40                   | 66.8                     |                      | 47,270               | 100,320                | 100,320      | 90                            |
| 100'<br>boom  | 50                   | 59.6                     |                      | 39,210               | 73,690                 | 76,450       | 85                            |
|               | 60                   | 51.9                     |                      | 32,120               | 57,210                 | 59,460       | 78                            |
|               | 70                   | 43.3                     |                      | 26,220               | 46,320                 | 48,220       | 69                            |
|               | 80                   | 33.0                     |                      | 21,890               | 38,620                 | 40,260       | 56                            |
|               | 90                   | 18.2                     |                      | 18,600               | 32,910                 | 34,350       | 35                            |
|               | 21                   | 80.5                     |                      | 73,710               | 176,410                | 176,410      | 106                           |
|               | 25                   | 78.2                     |                      | 66,030               | 160,590                | 160,590      | 105                           |
|               | 30                   | 75.2                     |                      | 58,090               | 133,690                | 133,690      | 104                           |
| 110'<br>boom  | 35                   | 72.2                     |                      | 51,860               | 114,640                | 114,640      | 102                           |
|               | 40                   | 69.2                     |                      | 46,590               | 100,240                | 100,240      | 101                           |
|               | 50                   | 62.9                     |                      | 38,600               | 73,490                 | 76,250       | 96                            |
|               | 60                   | 56.3                     |                      | 31,830               | 57,010                 | 59,260       | 90                            |
|               | 70                   | 49.1                     | 15,790               | 25,920               | 46,100                 | 47,990       | 83                            |
|               | 80                   | 41.0                     | 13,000               | 21,590               | 38,390                 | 40,020       | 73                            |
|               | 90                   | 31.2                     | 10,890               | 18,380               | 32,750                 | 34,190       | 59                            |
|               | 100                  | 17.3                     | 9,090                | 15,760               | 28,300                 | 29,590       | 37                            |

| Boom<br>Lgth.           | Radius<br>In<br>Feet | Boom<br>Angle<br>Degrees | Free<br>Over<br>Side | Free<br>Over<br>Rear | Outriggers Set         |              | Feet<br>From<br>Boom<br>Point |
|-------------------------|----------------------|--------------------------|----------------------|----------------------|------------------------|--------------|-------------------------------|
|                         |                      |                          |                      |                      | Over Front*<br>Or Side | Over<br>Rear |                               |
| 110'<br>boom<br>(cont.) | 60                   | 59.7                     |                      | 31,470               | 56,730                 | 58,980       | 102                           |
|                         | 70                   | 53.4                     | 15,260               | 25,560               | 45,810                 | 47,700       | 96                            |
|                         | 80                   | 46.7                     | 12,480               | 21,230               | 38,090                 | 39,730       | 87                            |
|                         | 90                   | 39.0                     | 10,420               | 18,050               | 32,480                 | 33,910       | 76                            |
|                         | 100                  | 29.8                     | 8,630                | 15,430               | 28,020                 | 29,300       | 62                            |
|                         | 110                  | 16.4                     | 7,130                | 13,300               | 24,460                 | 25,620       | 38                            |
|                         | 24                   | 80.6                     |                      | 65,900               | 166,900                | 166,900      | 126                           |
| 120'<br>boom            | 25                   | 80.2                     |                      | 64,310               | 160,400                | 160,400      | 125                           |
|                         | 30                   | 77.7                     |                      | 56,450               | 133,500                | 133,500      | 124                           |
|                         | 35                   | 75.3                     |                      | 50,320               | 114,490                | 114,490      | 123                           |
|                         | 40                   | 72.8                     |                      | 45,100               | 100,090                | 100,090      | 122                           |
|                         | 50                   | 67.7                     |                      | 37,210               | 72,940                 | 75,700       | 118                           |
|                         | 60                   | 62.4                     | 18,380               | 31,110               | 56,450                 | 58,700       | 114                           |
|                         | 70                   | 56.9                     | 14,750               | 25,190               | 45,510                 | 47,400       | 108                           |
|                         | 80                   | 51.0                     | 11,980               | 20,870               | 37,790                 | 39,420       | 101                           |
|                         | 90                   | 44.6                     | 9,950                | 17,710               | 32,190                 | 33,620       | 91                            |
|                         | 100                  | 37.3                     | 8,170                | 15,100               | 27,740                 | 29,020       | 80                            |
|                         | 110                  | 28.5                     | 6,690                | 12,970               | 24,170                 | 25,330       | 64                            |
|                         | 120                  | 15.7                     | 5,450                | 11,210               | 21,280                 | 22,330       | 40                            |
| 130'<br>boom            | 25                   | 80.9                     |                      |                      | 160,300                | 160,300      | 136                           |
|                         | 30                   | 78.7                     |                      |                      | 133,400                | 113,400      | 135                           |
|                         | 35                   | 76.4                     |                      |                      | 114,410                | 114,410      | 134                           |
|                         | 40                   | 74.1                     |                      |                      | 99,540                 | 100,010      | 132                           |
|                         | 50                   | 69.5                     |                      |                      | 72,990                 | 75,750       | 129                           |
|                         | 60                   | 64.7                     |                      |                      | 56,530                 | 58,770       | 125                           |
|                         | 70                   | 59.8                     |                      |                      | 45,580                 | 47,480       | 120                           |
|                         | 80                   | 54.5                     |                      |                      | 37,860                 | 39,490       | 113                           |
|                         | 90                   | 48.9                     |                      |                      | 32,290                 | 33,730       | 105                           |
|                         | 100                  | 42.7                     |                      |                      | 27,840                 | 29,120       | 95                            |
|                         | 110                  | 35.8                     |                      |                      | 24,280                 | 25,440       | 83                            |
|                         | 120                  | 27.3                     |                      |                      | 21,390                 | 22,440       | 67                            |
|                         | 130                  | 15.1                     |                      |                      | 18,980                 | 19,950       | 41                            |
| 140'<br>boom            | 27                   | 80.8                     |                      |                      | 148,250                | 148,250      | 145                           |
|                         | 30                   | 79.5                     |                      |                      | 133,310                | 133,310      | 145                           |
|                         | 35                   | 77.4                     |                      |                      | 114,330                | 114,330      | 144                           |
|                         | 40                   | 75.3                     |                      |                      | 98,690                 | 99,930       | 143                           |
|                         | 50                   | 71.0                     |                      |                      | 72,730                 | 75,490       | 140                           |
|                         | 60                   | 66.6                     |                      |                      | 56,250                 | 58,490       | 136                           |
|                         | 70                   | 62.1                     |                      |                      | 45,290                 | 47,180       | 131                           |

(continued)

\*With Optional Front Bumper Outrigger



# LIFT CRANE RATINGS IN POUNDS (cont.)

With 77SL Tubular Chord Lattice Boom With Tapered Tip and "A-B" Counterweight (68,000 lbs.) In Extended Position

| Boom Lgth.        | Radius In Feet | Boom Angle Degrees | Free Over Side | Free Over Rear | Outriggers Set      |           | Feet From Boom Point |
|-------------------|----------------|--------------------|----------------|----------------|---------------------|-----------|----------------------|
|                   |                |                    |                |                | Over Front* Or Side | Over Rear |                      |
| 140' boom (cont.) | 80             | 57.4               |                |                | 37,550              | 39,180    | 125                  |
|                   | 90             | 52.4               |                |                | 32,000              | 33,430    | 118                  |
|                   | 100            | 47.0               |                |                | 27,530              | 28,810    | 110                  |
|                   | 110            | 41.1               |                |                | 23,980              | 25,130    | 99                   |
|                   | 120            | 34.4               |                |                | 21,070              | 22,130    | 86                   |
|                   | 130            | 26.3               |                |                | 18,670              | 19,640    | 69                   |
|                   | 140            | 14.6               |                |                | 16,630              | 17,530    | 42                   |
| 150' boom         | 28             | 81.0               |                |                | 142,410             | 142,820   | 155                  |
|                   | 30             | 80.2               |                |                | 132,690             | 133,210   | 155                  |
|                   | 35             | 78.3               |                |                | 113,600             | 114,260   | 154                  |
|                   | 40             | 76.3               |                |                | 97,850              | 99,860    | 153                  |
|                   | 50             | 72.3               |                |                | 72,150              | 75,200    | 150                  |
|                   | 60             | 68.3               |                |                | 55,950              | 58,190    | 147                  |
|                   | 70             | 64.1               |                |                | 44,980              | 46,870    | 142                  |
|                   | 80             | 59.8               |                |                | 37,230              | 38,860    | 137                  |
|                   | 90             | 55.3               |                |                | 31,690              | 33,120    | 130                  |
|                   | 100            | 50.5               |                |                | 27,230              | 28,500    | 123                  |
|                   | 110            | 45.3               |                |                | 23,660              | 24,820    | 114                  |
|                   | 120            | 39.6               |                |                | 20,760              | 21,810    | 103                  |
|                   | 130            | 33.2               |                |                | 18,350              | 19,320    | 89                   |
|                   | 140            | 25.4               |                |                | 16,320              | 17,210    | 72                   |
|                   | 150            | 14.1               |                |                | 14,580              | 15,410    | 44                   |
| 160' boom         | 30             | 80.8               |                |                | 131,700             | 133,120   | 165                  |
|                   | 35             | 79.0               |                |                | 112,620             | 114,180   | 164                  |
|                   | 40             | 77.2               |                |                | 97,240              | 100,060   | 163                  |
|                   | 50             | 73.5               |                |                | 71,410              | 74,890    | 161                  |
|                   | 60             | 69.7               |                |                | 55,640              | 57,870    | 157                  |
|                   | 70             | 65.8               |                |                | 44,650              | 46,530    | 153                  |
|                   | 80             | 61.8               |                |                | 36,880              | 38,500    | 148                  |
|                   | 90             | 57.7               |                |                | 31,350              | 32,780    | 142                  |
|                   | 100            | 53.4               |                |                | 26,880              | 28,150    | 136                  |
|                   | 110            | 48.8               |                |                | 23,320              | 24,470    | 128                  |
|                   | 120            | 43.8               |                |                | 20,420              | 21,470    | 118                  |
|                   | 130            | 38.3               |                |                | 18,000              | 18,970    | 106                  |
|                   | 140            | 32.1               |                |                | 15,960              | 16,850    | 92                   |
|                   | 150            | 24.6               |                |                | 14,230              | 15,060    | 74                   |
|                   | 160            | 13.6               |                |                | 12,720              | 13,500    | 45                   |
| 170' boom         | 32             | 80.7               |                |                | 122,520             | 124,920   | 175                  |
|                   | 35             | 79.7               |                |                | 111,660             | 114,110   | 174                  |
|                   | 40             | 77.9               |                |                | 96,370              | 100,010   | 173                  |
|                   | 50             | 74.5               |                |                | 70,810              | 74,570    | 171                  |
|                   | 60             | 70.9               |                |                | 55,310              | 57,550    | 168                  |
|                   | 70             | 67.3               |                |                | 44,300              | 46,180    | 164                  |
|                   | 80             | 63.6               |                |                | 36,530              | 38,150    | 160                  |
|                   | 90             | 59.8               |                |                | 31,020              | 32,450    | 154                  |
|                   | 100            | 55.8               |                |                | 26,540              | 27,810    | 148                  |
|                   | 110            | 51.6               |                |                | 22,970              | 24,120    | 141                  |
|                   | 120            | 47.2               |                |                | 20,060              | 21,110    | 132                  |
|                   | 130            | 42.4               |                |                | 17,650              | 18,610    | 122                  |
|                   | 140            | 37.1               |                |                | 15,610              | 16,500    | 110                  |
|                   | 150            | 31.1               |                |                | 13,870              | 14,700    | 95                   |
|                   | 160            | 23.8               |                |                | 12,360              | 13,130    | 76                   |
|                   | 170            | 13.2               |                |                | 11,050              | 11,780    | 46                   |
| 180' boom         | 33             | 80.9               |                |                | 101,880             | 101,880   | 185                  |
|                   | 35             | 80.2               |                |                | 101,880             | 101,880   | 185                  |
|                   | 40             | 78.6               |                |                | 95,840              | 99,950    | 184                  |
|                   | 50             | 75.4               |                |                | 70,380              | 74,430    | 181                  |
|                   | 60             | 72.0               |                |                | 55,090              | 57,440    | 178                  |
|                   | 70             | 68.7               |                |                | 44,190              | 46,070    | 175                  |
|                   | 80             | 65.2               |                |                | 36,420              | 38,050    | 171                  |
|                   | 90             | 61.6               |                |                | 30,940              | 32,370    | 166                  |
|                   | 100            | 58.0               |                |                | 26,460              | 27,740    | 160                  |
|                   | 110            | 54.1               |                |                | 22,890              | 24,050    | 153                  |
|                   | 120            | 50.1               |                |                | 19,980              | 21,040    | 145                  |
|                   | 130            | 45.8               |                |                | 17,570              | 18,540    | 136                  |
|                   | 140            | 41.2               |                |                | 15,540              | 16,430    | 126                  |
|                   | 150            | 36.1               |                |                | 13,790              | 14,620    | 113                  |
|                   | 160            | 30.2               |                |                | 12,290              | 13,070    | 98                   |
|                   | 170            | 23.2               |                |                | 10,980              | 11,710    | 78                   |
|                   | 180            | 12.8               |                |                | 9,840               | 10,520    | 47                   |
| 190' boom         | 35             | 80.8               |                |                | 94,210              | 94,210    | 195                  |
|                   | 40             | 79.2               |                |                | 94,210              | 94,210    | 194                  |
|                   | 50             | 76.1               |                |                | 69,810              | 74,150    | 192                  |
|                   | 60             | 73.0               |                |                | 54,570              | 57,130    | 189                  |
|                   | 70             | 69.8               |                |                | 43,880              | 45,760    | 186                  |
|                   | 80             | 66.6               |                |                | 36,090              | 37,710    | 182                  |
|                   | 90             | 63.3               |                |                | 30,610              | 32,040    | 177                  |
|                   | 100            | 59.8               |                |                | 26,130              | 27,410    | 171                  |
|                   | 110            | 56.3               |                |                | 22,560              | 23,710    | 165                  |

| Boom Lgth.        | Radius In Feet | Boom Angle Degrees | Free Over Side | Free Over Rear | Outriggers Set      |           | Feet From Boom Point |
|-------------------|----------------|--------------------|----------------|----------------|---------------------|-----------|----------------------|
|                   |                |                    |                |                | Over Front* Or Side | Over Rear |                      |
| 190' boom (cont.) | 120            | 52.6               |                |                | 19,650              | 20,700    | 158                  |
|                   | 130            | 48.7               |                |                | 17,240              | 18,200    | 150                  |
|                   | 140            | 44.5               |                |                | 15,190              | 16,080    | 140                  |
|                   | 150            | 40.0               |                |                | 13,450              | 14,270    | 129                  |
|                   | 160            | 35.1               |                |                | 11,940              | 12,720    | 116                  |
|                   | 170            | 29.4               |                |                | 10,630              | 11,360    | 101                  |
|                   | 180            | 22.5               |                |                | 9,480               | 10,160    | 80                   |
|                   | 190            | 12.5               |                |                | 8,450               | 9,100     | 48                   |
| 200' boom         | 36             | 80.9               |                |                | 87,680              | 87,680    | 205                  |
|                   | 40             | 79.8               |                |                | 87,680              | 87,680    | 204                  |
|                   | 50             | 76.9               |                |                | 69,090              | 73,840    | 202                  |
|                   | 60             | 73.9               |                |                | 54,040              | 56,820    | 199                  |
|                   | 70             | 70.9               |                |                | 43,550              | 45,430    | 196                  |
|                   | 80             | 67.8               |                |                | 35,750              | 37,370    | 192                  |
|                   | 90             | 64.7               |                |                | 30,290              | 31,710    | 188                  |
|                   | 100            | 61.5               |                |                | 25,800              | 27,070    | 183                  |
|                   | 110            | 58.2               |                |                | 22,220              | 23,370    | 177                  |
|                   | 120            | 54.7               |                |                | 19,310              | 20,360    | 171                  |
|                   | 130            | 51.1               |                |                | 16,890              | 17,850    | 163                  |
|                   | 140            | 47.4               |                |                | 14,850              | 15,740    | 154                  |
|                   | 150            | 43.3               |                |                | 13,100              | 13,930    | 144                  |
|                   | 160            | 39.0               |                |                | 11,590              | 12,370    | 133                  |
|                   | 170            | 34.2               |                |                | 10,270              | 11,000    | 120                  |
|                   | 180            | 28.7               |                |                | 9,110               | 9,800     | 103                  |
|                   | 190            | 21.9               |                |                | 8,090               | 8,740     | 82                   |
|                   | 200            | 12.2               |                |                | 7,180               | 7,800     | 49                   |
| 210' boom         | 38             | 80.8               |                |                | 81,680              | 81,680    | 215                  |
|                   | 40             | 80.3               |                |                | 81,680              | 81,680    | 214                  |
|                   | 50             | 77.5               |                |                | 68,490              | 73,520    | 212                  |
|                   | 60             | 74.7               |                |                | 53,510              | 56,500    | 210                  |
|                   | 70             | 71.8               |                |                | 43,120              | 45,090    | 207                  |
|                   | 80             | 68.9               |                |                | 35,390              | 37,010    | 203                  |
|                   | 90             | 66.0               |                |                | 29,940              | 31,370    | 199                  |
|                   | 100            | 62.9               |                |                | 25,440              | 26,710    | 194                  |
|                   | 110            | 59.8               |                |                | 21,860              | 23,010    | 189                  |
|                   | 120            | 56.6               |                |                | 18,950              | 20,000    | 183                  |
|                   | 130            | 53.3               |                |                | 16,520              | 17,480    | 176                  |
|                   | 140            | 49.8               |                |                | 14,470              | 15,360    | 168                  |
|                   | 150            | 46.1               |                |                | 12,730              | 13,550    | 159                  |
|                   | 160            | 42.2               |                |                | 11,220              | 11,990    | 148                  |
|                   | 170            | 38.0               |                |                | 9,900               | 10,620    | 136                  |
|                   | 180            | 33.3               |                |                | 8,740               | 9,420     | 123                  |
|                   | 190            | 27.9               |                |                | 7,710               | 8,360     | 106                  |
|                   | 200            | 21.4               |                |                | 6,800               | 7,410     | 84                   |
|                   | 210            | 11.9               |                |                | 5,980               | 6,570     | 50                   |
| 220' boom         | 39             | 81.0               |                |                | 75,830              | 75,830    | 225                  |
|                   | 40             | 80.7               |                |                | 75,830              | 75,830    | 224                  |
|                   | 50             | 78.1               |                |                | 67,900              | 73,210    | 222                  |
|                   | 60             | 75.4               |                |                | 52,960              | 56,170    | 220                  |
|                   | 70             | 72.7               |                |                | 42,600              | 44,740    | 217                  |
|                   | 80             | 69.9               |                |                | 35,030              | 36,650    | 214                  |
|                   | 90             | 67.1               |                |                | 29,590              | 31,020    | 210                  |
|                   | 100            | 64.3               |                |                | 25,080              | 26,350    | 205                  |
|                   | 110            | 61.3               |                |                | 21,500              | 22,650    | 200                  |
|                   | 120            | 58.3               |                |                | 18,580              | 19,620    | 194                  |
|                   | 130            | 55.2               |                |                | 16,160              | 17,120    | 188                  |
|                   | 140            | 52.0               |                |                | 14,110              | 15,000    | 181                  |
|                   | 150            | 48.6               |                |                | 12,350              | 13,180    | 172                  |
|                   | 160            | 45.0               |                |                | 10,840              | 11,610    | 163                  |
|                   | 170            | 41.2               |                |                | 9,520               | 10,240    | 152                  |
|                   | 180            | 37.1               |                |                | 8,350               | 9,040     | 140                  |
|                   | 190            | 32.5               |                |                | 7,330               | 7,970     | 126                  |
|                   | 200            | 27.3               |                |                | 6,410               | 7,020     | 108                  |
|                   | 210            | 20.9               |                |                | 5,590               | 6,170     | 86                   |
|                   | 220            | 11.6               |                |                | 4,870               | 5,420     | 51                   |
| 230' boom         | 41             | 80.9               |                |                | 58,590              | 58,590    | 234                  |
|                   | 50             | 78.6               |                |                | 57,800              | 57,800    | 233                  |
|                   | 60             | 76.0               |                |                | 52,660              | 55,970    | 230                  |
|                   | 70             | 73.4               |                |                | 42,320              | 44,540    | 228                  |
|                   | 80             | 70.8               |                |                | 34,840              | 36,460    | 224                  |
|                   | 90             | 68.2               |                |                | 29,420              | 30,850    | 221                  |
|                   | 100            | 65.5               |                |                | 24,920              | 26,190    | 216                  |
|                   | 110            | 62.7               |                |                | 21,340              | 22,480    | 212                  |
|                   | 120            | 59.9               |                |                | 18,420              | 19,460    | 206                  |
|                   | 130            | 56.9               |                |                | 15,990              | 16,950    | 200                  |
|                   | 140            | 53.9               |                |                | 13,950              | 14,840    | 193                  |
|                   | 150            | 50.8               |                |                | 12,200              | 13,020    | 185                  |
|                   | 160            | 47.5               |                |                | 10,690              | 11,460    | 177                  |

**LIFT CRANE RATINGS IN POUNDS (cont.)****With 77SL Tubular Chord Lattice Boom With Tapered Tip and "A-B" Counterweight (68,000 lbs.) In Extended Position**

| Boom Lgth.               | Radius In Feet | Boom Angle Degrees | Free Over Side | Free Over Rear | Outriggers Set      |           | Feet From Boom Point |
|--------------------------|----------------|--------------------|----------------|----------------|---------------------|-----------|----------------------|
|                          |                |                    |                |                | Over Front* Or Side | Over Rear |                      |
| <b>230' boom (cont.)</b> | 170            | 44.0               |                |                | 9,360               | 10,090    | 167                  |
|                          | 180            | 40.3               |                |                | 8,210               | 8,890     | 156                  |
|                          | 190            | 36.2               |                |                | 7,180               | 7,820     | 143                  |
|                          | 200            | 31.8               |                |                | 6,260               | 6,870     | 128                  |
|                          | 210            | 26.7               |                |                | 5,440               | 6,020     | 111                  |
|                          | 220            | 20.4               |                |                | 4,700               | 5,250     | 88                   |
|                          | 230            | 11.4               |                |                | 4,050               | 4,580     | 53                   |
| <b>240' boom</b>         | 43             | 80.8               |                |                | 55,160              | 55,160    | 244                  |
|                          | 50             | 79.1               |                |                | 54,550              | 54,550    | 243                  |
|                          | 60             | 76.6               |                |                | 52,140              | 53,180    | 241                  |
|                          | 70             | 74.2               |                |                | 41,820              | 44,210    | 238                  |
|                          | 80             | 71.7               |                |                | 34,360              | 36,120    | 235                  |
|                          | 90             | 69.1               |                |                | 29,090              | 30,520    | 231                  |
|                          | 100            | 66.6               |                |                | 24,580              | 25,850    | 227                  |
|                          | 110            | 63.9               |                |                | 20,990              | 22,140    | 223                  |
|                          | 120            | 61.2               |                |                | 18,070              | 19,120    | 218                  |
|                          | 130            | 58.5               |                |                | 15,640              | 16,600    | 212                  |
|                          | 140            | 55.6               |                |                | 13,590              | 14,480    | 205                  |
|                          | 150            | 52.7               |                |                | 11,840              | 12,670    | 198                  |
|                          | 160            | 49.6               |                |                | 10,320              | 11,100    | 190                  |
|                          | 170            | 46.4               |                |                | 9,000               | 9,730     | 181                  |
|                          | 180            | 43.0               |                |                | 7,840               | 8,520     | 171                  |
|                          | 190            | 39.4               |                |                | 6,810               | 7,450     | 160                  |
|                          | 200            | 35.4               |                |                | 5,880               | 6,500     | 146                  |
|                          | 210            | 31.1               |                |                | 5,060               | 5,640     | 131                  |
|                          | 220            | 26.1               |                |                | 4,320               | 4,870     | 113                  |
|                          | 230            | 20.0               |                |                | 3,660               | 4,190     | 89                   |
|                          | 240            | 11.1               |                |                | 3,050               | 3,560     | 53                   |
| <b>250' boom</b>         | 44             | 80.9               |                |                | 51,810              | 51,810    | 254                  |
|                          | 50             | 79.5               |                |                | 51,180              | 51,180    | 253                  |
|                          | 60             | 77.2               |                |                | 49,920              | 49,920    | 251                  |
|                          | 70             | 74.8               |                |                | 41,320              | 43,880    | 248                  |
|                          | 80             | 72.4               |                |                | 33,880              | 35,770    | 246                  |
|                          | 90             | 70.0               |                |                | 28,700              | 30,180    | 242                  |
|                          | 100            | 67.5               |                |                | 24,240              | 25,510    | 238                  |
|                          | 110            | 65.0               |                |                | 20,650              | 21,790    | 234                  |
|                          | 120            | 62.5               |                |                | 17,720              | 18,770    | 229                  |
|                          | 130            | 59.9               |                |                | 15,290              | 16,250    | 223                  |
|                          | 140            | 57.2               |                |                | 13,230              | 14,120    | 217                  |
|                          | 150            | 54.4               |                |                | 11,480              | 12,300    | 211                  |
|                          | 160            | 51.5               |                |                | 9,970               | 10,740    | 203                  |
|                          | 170            | 48.6               |                |                | 8,640               | 9,360     | 195                  |
|                          | 180            | 45.4               |                |                | 7,470               | 8,160     | 185                  |
|                          | 190            | 42.1               |                |                | 6,440               | 7,090     | 175                  |
|                          | 200            | 38.6               |                |                | 5,520               | 6,130     | 163                  |
|                          | 210            | 34.7               |                |                | 4,700               | 5,280     | 150                  |
|                          | 220            | 30.5               |                |                | 3,950               | 4,510     | 134                  |
|                          | 230            | 25.6               |                |                | 3,280               | 3,810     | 115                  |
|                          | 240            | 19.6               |                |                | 2,670               | 3,170     | 91                   |
|                          | 250            | 10.9               |                |                | 2,130               | 2,610     | 54                   |
| <b>260' boom</b>         | 46             | 80.8               |                |                | 48,860              | 48,860    | 264                  |
|                          | 50             | 79.9               |                |                | 48,450              | 48,450    | 263                  |
|                          | 60             | 77.7               |                |                | 47,110              | 47,110    | 261                  |
|                          | 70             | 75.4               |                |                | 41,450              | 44,100    | 259                  |
|                          | 80             | 73.1               |                |                | 34,010              | 35,980    | 256                  |
|                          | 90             | 70.8               |                |                | 28,860              | 30,400    | 253                  |
|                          | 100            | 68.4               |                |                | 24,450              | 25,720    | 249                  |
|                          | 110            | 66.1               |                |                | 20,850              | 22,000    | 245                  |
|                          | 120            | 63.6               |                |                | 17,920              | 18,960    | 240                  |
|                          | 130            | 61.1               |                |                | 15,480              | 16,440    | 235                  |

| Boom Lgth.               | Radius In Feet | Boom Angle Degrees | Free Over Side | Free Over Rear | Outriggers Set      |           | Feet From Boom Point |
|--------------------------|----------------|--------------------|----------------|----------------|---------------------|-----------|----------------------|
|                          |                |                    |                |                | Over Front* Or Side | Over Rear |                      |
| <b>260' boom (cont.)</b> | 140            | 58.6               |                |                | 13,430              | 14,310    | 229                  |
|                          | 150            | 56.0               |                |                | 11,670              | 12,490    | 223                  |
|                          | 160            | 53.3               |                |                | 10,150              | 10,920    | 216                  |
|                          | 170            | 50.5               |                |                | 8,820               | 9,550     | 208                  |
|                          | 180            | 47.6               |                |                | 7,660               | 8,340     | 199                  |
|                          | 190            | 44.5               |                |                | 6,620               | 7,260     | 189                  |
|                          | 200            | 41.2               |                |                | 5,690               | 6,310     | 179                  |
|                          | 210            | 37.8               |                |                | 4,870               | 5,450     | 167                  |
|                          | 220            | 34.0               |                |                | 4,120               | 4,670     | 153                  |
|                          | 230            | 29.9               |                |                | 3,450               | 3,970     | 137                  |
|                          | 240            | 25.1               |                |                | 2,840               | 3,350     | 117                  |
|                          | 250            | 19.2               |                |                | 2,280               | 2,770     | 93                   |
|                          | 260            | 10.7               |                |                | 1,790               | 2,250     | 55                   |
| <b>270' boom</b>         | 47             | 80.9               |                |                | 45,930              | 45,930    | 274                  |
|                          | 50             | 80.3               |                |                | 45,610              | 45,610    | 273                  |
|                          | 60             | 78.1               |                |                | 44,130              | 44,130    | 271                  |
|                          | 70             | 76.0               |                |                | 40,950              | 42,750    | 269                  |
|                          | 80             | 73.8               |                |                | 33,530              | 35,630    | 266                  |
|                          | 90             | 71.5               |                |                | 28,450              | 30,050    | 263                  |
|                          | 100            | 69.3               |                |                | 24,040              | 25,360    | 260                  |
|                          | 110            | 67.0               |                |                | 20,490              | 21,630    | 256                  |
|                          | 120            | 64.7               |                |                | 17,550              | 18,600    | 251                  |
|                          | 130            | 62.3               |                |                | 15,120              | 16,070    | 246                  |
|                          | 140            | 59.9               |                |                | 13,060              | 13,940    | 241                  |
|                          | 150            | 57.4               |                |                | 11,300              | 12,120    | 235                  |
|                          | 160            | 54.8               |                |                | 9,770               | 10,540    | 228                  |
|                          | 170            | 52.2               |                |                | 8,450               | 9,170     | 221                  |
|                          | 180            | 49.5               |                |                | 7,280               | 7,960     | 212                  |
|                          | 190            | 46.6               |                |                | 6,240               | 6,890     | 203                  |
|                          | 200            | 43.6               |                |                | 5,320               | 5,930     | 193                  |
|                          | 210            | 40.4               |                |                | 4,490               | 5,070     | 182                  |
|                          | 220            | 37.1               |                |                | 3,740               | 4,290     | 170                  |
|                          | 230            | 33.4               |                |                | 3,060               | 3,590     | 156                  |
|                          | 240            | 29.3               |                |                | 2,450               | 2,950     | 139                  |
|                          | 250            | 24.6               |                |                | 1,880               | 2,370     | 120                  |
|                          | 260            | 18.9               |                |                | 1,380               | 1,850     | 95                   |
|                          | 270            | 10.5               |                |                | 1,380               | 1,380     | 56                   |
| <b>280' boom</b>         | 49             | 80.9               |                |                | 36,730              | 36,730    | 284                  |
|                          | 50             | 80.6               |                |                | 36,510              | 36,510    | 284                  |
|                          | 60             | 78.6               |                |                | 35,370              | 35,370    | 282                  |
|                          | 70             | 76.5               |                |                | 33,990              | 33,990    | 279                  |
|                          | 80             | 74.4               |                |                | 32,600              | 32,600    | 277                  |
|                          | 90             | 72.2               |                |                | 28,120              | 29,830    | 274                  |
|                          | 100            | 70.1               |                |                | 23,780              | 25,140    | 270                  |
|                          | 110            | 67.9               |                |                | 20,230              | 21,420    | 267                  |
|                          | 120            | 65.6               |                |                | 17,340              | 18,380    | 262                  |
|                          | 130            | 63.4               |                |                | 14,900              | 15,860    | 258                  |
|                          | 140            | 61.1               |                |                | 12,850              | 13,730    | 252                  |
|                          | 150            | 58.7               |                |                | 11,090              | 11,910    | 246                  |
|                          | 160            | 56.3               |                |                | 9,570               | 10,340    | 240                  |
|                          | 170            | 53.8               |                |                | 8,240               | 8,960     | 233                  |
|                          | 180            | 51.2               |                |                | 7,070               | 7,750     | 225                  |
|                          | 190            | 48.5               |                |                | 6,030               | 6,680     | 217                  |
|                          | 200            | 45.7               |                |                | 5,110               | 5,720     | 208                  |
|                          | 210            | 42.8               |                |                | 4,280               | 4,860     | 197                  |
|                          | 220            | 39.7               |                |                | 3,530               | 4,080     | 186                  |
|                          | 230            | 36.4               |                |                | 2,850               | 3,380     | 173                  |
|                          | 240            | 32.8               |                |                | 2,230               | 2,740     | 159                  |
|                          | 250            | 28.7               |                |                | 1,660               | 2,160     | 142                  |
|                          | 260            | 24.1               |                |                | 1,150               | 1,630     | 122                  |
|                          | 270            | 18.5               |                |                | 1,150               | 1,150     | 96                   |

8470.24

\*With Optional Front Bumper Outrigger



# LIFT CRANE RATINGS IN POUNDS

With 77SL Tubular Chord Lattice Boom With Hammerhead and "A-B"  
Counterweight (68,000 lbs.) In Extended Position Plus 18,000 lbs. Front Bumper  
Counterweight

| Boom Length<br>In Feet | Radius<br>In Feet | Boom Angle<br>Degrees | Outriggers Set         |           | Ft. From Boom Pt. to Ground |
|------------------------|-------------------|-----------------------|------------------------|-----------|-----------------------------|
|                        |                   |                       | Over Front*<br>Or Side | Over Rear |                             |
| 50' boom               | 12                | 84.3                  | 360,000                | 360,000   | 58                          |
|                        | 13                | 83.1                  | 343,280                | 360,000   | 58                          |
|                        | 14                | 82.0                  | 324,480                | 340,150   | 58                          |
|                        | 15                | 80.9                  | 307,710                | 317,410   | 58                          |
|                        | 20                | 75.0                  | 238,040                | 238,040   | 57                          |
|                        | 25                | 69.0                  | 190,480                | 190,480   | 55                          |
|                        | 30                | 62.8                  | 158,750                | 158,750   | 53                          |
|                        | 35                | 56.0                  | 130,540                | 136,120   | 50                          |
|                        | 40                | 48.7                  | 105,660                | 119,100   | 46                          |
|                        | 50                | 29.7                  | 75,520                 | 86,980    | 32                          |
| 60' boom               | 13                | 84.3                  | 343,080                | 360,000   | 68                          |
|                        | 14                | 83.3                  | 324,300                | 339,970   | 68                          |
|                        | 15                | 82.4                  | 307,530                | 317,230   | 68                          |
|                        | 20                | 77.6                  | 237,880                | 237,880   | 67                          |
|                        | 25                | 72.6                  | 190,360                | 190,360   | 65                          |
|                        | 30                | 67.6                  | 158,650                | 158,650   | 64                          |
|                        | 35                | 62.3                  | 130,790                | 136,040   | 61                          |
|                        | 40                | 56.7                  | 105,840                | 119,010   | 58                          |
|                        | 50                | 44.1                  | 75,680                 | 87,140    | 50                          |
|                        | 60                | 26.9                  | 58,020                 | 67,160    | 35                          |
| 70' boom               | 14                | 84.3                  | 324,110                | 339,780   | 78                          |
|                        | 15                | 83.4                  | 306,100                | 317,040   | 78                          |
|                        | 20                | 79.4                  | 237,730                | 237,730   | 77                          |
|                        | 25                | 75.2                  | 190,240                | 190,240   | 76                          |
|                        | 30                | 70.9                  | 158,550                | 158,550   | 74                          |
|                        | 35                | 66.5                  | 130,890                | 135,950   | 72                          |
|                        | 40                | 62.0                  | 105,890                | 118,920   | 70                          |
|                        | 50                | 52.1                  | 75,710                 | 87,160    | 63                          |
|                        | 60                | 40.6                  | 58,070                 | 67,210    | 53                          |
|                        | 70                | 24.7                  | 46,420                 | 54,020    | 37                          |
| 80' boom               | 14                | 85.0                  | 322,570                | 339,590   | 88                          |
|                        | 15                | 84.3                  | 305,920                | 316,860   | 88                          |
|                        | 20                | 80.7                  | 237,580                | 237,580   | 87                          |
|                        | 25                | 77.1                  | 190,130                | 190,130   | 86                          |
|                        | 30                | 73.4                  | 158,450                | 158,450   | 85                          |
|                        | 35                | 69.6                  | 129,810                | 135,870   | 83                          |
|                        | 40                | 65.7                  | 105,810                | 118,840   | 81                          |
|                        | 50                | 57.6                  | 75,590                 | 87,040    | 76                          |
|                        | 60                | 48.5                  | 57,960                 | 67,100    | 68                          |
|                        | 70                | 37.8                  | 46,310                 | 53,910    | 57                          |
| 90' boom               | 15                | 84.9                  | 304,500                | 316,670   | 98                          |
|                        | 20                | 81.7                  | 237,430                | 237,430   | 97                          |
|                        | 25                | 78.5                  | 190,020                | 190,020   | 96                          |
|                        | 30                | 75.3                  | 158,360                | 158,360   | 95                          |
|                        | 35                | 71.9                  | 128,690                | 135,800   | 94                          |
|                        | 40                | 68.6                  | 105,690                | 118,760   | 92                          |
|                        | 50                | 61.5                  | 75,430                 | 86,880    | 87                          |
|                        | 60                | 54.0                  | 57,800                 | 66,940    | 81                          |
|                        | 70                | 45.5                  | 46,150                 | 53,740    | 72                          |
|                        | 80                | 35.5                  | 37,890                 | 44,390    | 60                          |
| 100' boom              | 16                | 84.8                  | 247,040                | 247,040   | 108                         |
|                        | 20                | 82.6                  | 203,590                | 237,460   | 107                         |
|                        | 25                | 79.7                  | 163,320                | 190,080   | 107                         |
|                        | 30                | 76.8                  | 135,470                | 158,260   | 106                         |
|                        | 35                | 73.8                  | 115,270                | 135,720   | 104                         |
|                        | 40                | 70.8                  | 100,200                | 118,680   | 103                         |
|                        | 50                | 64.6                  | 75,690                 | 87,140    | 98                          |
|                        | 60                | 58.1                  | 58,100                 | 67,230    | 93                          |
|                        | 70                | 50.9                  | 46,450                 | 54,040    | 86                          |
|                        | 80                | 43.0                  | 38,200                 | 44,700    | 76                          |
| 110' boom              | 90                | 33.6                  | 32,160                 | 37,840    | 63                          |
|                        | 100               | 20.4                  | 27,350                 | 32,400    | 42                          |
| 110' boom (cont.)      | 17                | 84.8                  | 234,050                | 234,050   | 118                         |
|                        | 20                | 83.2                  | 202,000                | 226,950   | 117                         |
|                        | 25                | 80.6                  | 161,690                | 189,990   | 117                         |
|                        | 30                | 78.0                  | 134,060                | 158,170   | 116                         |
|                        | 35                | 75.3                  | 114,460                | 135,640   | 115                         |
|                        | 40                | 72.6                  | 99,230                 | 118,600   | 113                         |
|                        | 50                | 67.1                  | 75,480                 | 86,930    | 109                         |
|                        | 60                | 61.3                  | 57,880                 | 67,010    | 105                         |

| Boom Length<br>In Feet | Radius<br>In Feet | Boom Angle<br>Degrees | Outriggers Set         |           | Ft. From Boom Pt. to Ground |
|------------------------|-------------------|-----------------------|------------------------|-----------|-----------------------------|
|                        |                   |                       | Over Front*<br>Or Side | Over Rear |                             |
| 110' boom (cont.)      | 70                | 55.1                  | 46,200                 | 53,800    | 98                          |
|                        | 80                | 48.4                  | 37,960                 | 44,460    | 90                          |
|                        | 90                | 40.9                  | 31,940                 | 37,630    | 80                          |
|                        | 100               | 31.9                  | 27,160                 | 32,200    | 66                          |
|                        | 110               | 19.4                  | 23,320                 | 27,860    | 44                          |
| 120' boom              | 18                | 84.7                  | 220,560                | 220,560   | 128                         |
|                        | 20                | 83.8                  | 199,810                | 216,990   | 128                         |
|                        | 25                | 81.4                  | 160,390                | 189,890   | 127                         |
|                        | 30                | 79.0                  | 132,890                | 158,070   | 126                         |
|                        | 35                | 76.6                  | 113,370                | 135,560   | 125                         |
|                        | 40                | 74.1                  | 98,240                 | 118,520   | 124                         |
|                        | 50                | 69.1                  | 75,260                 | 86,700    | 120                         |
|                        | 60                | 63.9                  | 57,640                 | 66,760    | 116                         |
|                        | 70                | 58.4                  | 45,950                 | 53,540    | 110                         |
|                        | 80                | 52.6                  | 37,690                 | 44,190    | 103                         |
|                        | 90                | 46.2                  | 31,700                 | 37,380    | 95                          |
|                        | 100               | 39.0                  | 26,920                 | 31,970    | 83                          |
|                        | 110               | 30.5                  | 23,110                 | 27,650    | 69                          |
|                        | 120               | 18.5                  | 19,970                 | 24,100    | 46                          |
| 130' boom              | 19                | 84.7                  | 207,960                | 207,960   | 138                         |
|                        | 20                | 84.3                  | 198,320                | 206,060   | 138                         |
|                        | 25                | 82.1                  | 159,050                | 189,800   | 137                         |
|                        | 30                | 79.8                  | 131,700                | 157,980   | 136                         |
|                        | 35                | 77.6                  | 112,280                | 135,490   | 135                         |
|                        | 40                | 75.3                  | 97,660                 | 118,680   | 134                         |
|                        | 50                | 70.7                  | 74,840                 | 86,430    | 131                         |
|                        | 60                | 66.0                  | 57,360                 | 66,490    | 127                         |
|                        | 70                | 61.1                  | 45,650                 | 53,240    | 122                         |
|                        | 80                | 55.9                  | 37,380                 | 43,870    | 116                         |
|                        | 90                | 50.3                  | 31,400                 | 37,080    | 108                         |
|                        | 100               | 44.3                  | 26,630                 | 31,670    | 99                          |
|                        | 110               | 37.4                  | 22,810                 | 27,350    | 87                          |
|                        | 120               | 29.2                  | 19,700                 | 23,820    | 71                          |
| 140' boom              | 130               | 17.8                  | 17,090                 | 20,870    | 47                          |
|                        | 20                | 84.7                  | 190,730                | 190,730   | 148                         |
|                        | 25                | 82.6                  | 157,670                | 185,980   | 147                         |
|                        | 30                | 80.6                  | 130,750                | 157,880   | 146                         |
|                        | 35                | 78.5                  | 111,420                | 135,410   | 145                         |
|                        | 40                | 76.4                  | 96,650                 | 118,620   | 144                         |
|                        | 50                | 72.2                  | 74,130                 | 86,170    | 141                         |
|                        | 60                | 67.8                  | 57,080                 | 66,200    | 138                         |
|                        | 70                | 63.3                  | 45,350                 | 52,940    | 133                         |
|                        | 80                | 58.6                  | 37,070                 | 43,560    | 128                         |
|                        | 90                | 53.7                  | 31,110                 | 36,790    | 121                         |
|                        | 100               | 48.4                  | 26,330                 | 31,370    | 113                         |
|                        | 110               | 42.6                  | 22,510                 | 27,050    | 103                         |
|                        | 120               | 36.0                  | 19,400                 | 23,520    | 90                          |
| 150' boom              | 130               | 28.1                  | 16,810                 | 20,580    | 74                          |
|                        | 140               | 17.1                  | 14,590                 | 18,080    | 49                          |
|                        | 26                | 82.7                  | 145,930                | 145,930   | 157                         |
|                        | 30                | 81.2                  | 130,140                | 143,670   | 156                         |
|                        | 35                | 79.3                  | 110,860                | 135,340   | 156                         |
|                        | 40                | 77.3                  | 96,410                 | 118,560   | 155                         |
|                        | 50                | 73.4                  | 73,780                 | 86,120    | 152                         |
|                        | 60                | 69.4                  | 57,060                 | 66,180    | 149                         |
|                        | 70                | 65.2                  | 45,340                 | 52,920    | 144                         |
|                        | 80                | 60.9                  | 37,060                 | 43,550    | 139                         |
|                        | 90                | 56.4                  | 31,120                 | 36,800    | 133                         |
|                        | 100               | 51.7                  | 26,340                 | 31,390    | 126                         |
|                        | 110               | 46.6                  | 22,540                 | 27,080    | 117                         |
|                        | 120               | 41.0                  | 19,430                 | 23,550    | 106                         |
| 160' boom              | 130               | 34.7                  | 16,840                 | 20,620    | 93                          |
|                        | 140               | 27.1                  | 14,650                 | 18,130    | 76                          |
|                        | 150               | 16.5                  | 12,760                 | 16,000    | 50                          |
|                        | 27                | 82.8                  | 134,540                | 134,540   | 167                         |
|                        | 30                | 81.8                  | 129,250                | 134,540   | 167                         |
|                        | 35                | 79.9                  | 109,840                | 133,260   | 166                         |
|                        | 40                | 78.1                  | 95,430                 | 118,510   | 165                         |
|                        | 50                | 74.4                  | 73,080                 | 85,860    | 162                         |
| 160' boom              | 60                | 70.7                  | 56,670                 | 65,910    | 159                         |
|                        | 70                | 66.9                  | 45,040                 | 52,630    | 155                         |
|                        | 80                | 62.9                  | 36,740                 | 43,230    | 151                         |

\*With Optional Front Bumper Outrigger

**LIFT CRANE RATINGS IN POUNDS (cont.)**

With 77SL Tubular Chord Lattice Boom With Hammerhead and "A-B"  
Counterweight (68,000 lbs.) In Extended Position Plus 18,000 lbs. Front Bumper  
Counterweight

| Boom Length<br>In Feet | Radius<br>In Feet | Boom Angle<br>Degrees | Outriggers Set         |           | Ft. From<br>Boom<br>Pt. to<br>Ground |
|------------------------|-------------------|-----------------------|------------------------|-----------|--------------------------------------|
|                        |                   |                       | Over Front*<br>Or Side | Over Rear |                                      |
| 160'<br>boom           | 90                | 58.8                  | 30,830                 | 36,500    | 145                                  |
|                        | 100               | 54.5                  | 26,040                 | 31,080    | 138                                  |
|                        | 110               | 49.9                  | 22,230                 | 26,760    | 130                                  |
|                        | 120               | 45.0                  | 19,120                 | 23,240    | 121                                  |
|                        | 130               | 39.6                  | 16,530                 | 20,310    | 110                                  |
|                        | 140               | 33.6                  | 14,350                 | 17,830    | 96                                   |
|                        | 150               | 26.2                  | 12,470                 | 15,700    | 78                                   |
|                        | 160               | 15.9                  | 10,830                 | 13,850    | 51                                   |
| 170'<br>boom           | 28                | 82.9                  | 123,230                | 123,230   | 177                                  |
|                        | 30                | 82.2                  | 123,230                | 123,230   | 177                                  |
|                        | 35                | 80.5                  | 109,010                | 123,230   | 176                                  |
|                        | 40                | 78.8                  | 94,650                 | 118,450   | 175                                  |
|                        | 50                | 75.4                  | 72,510                 | 85,590    | 173                                  |
|                        | 60                | 71.9                  | 56,160                 | 65,620    | 170                                  |
|                        | 70                | 68.3                  | 44,740                 | 52,330    | 166                                  |
|                        | 80                | 64.6                  | 36,430                 | 42,920    | 162                                  |
|                        | 90                | 60.8                  | 30,520                 | 36,190    | 157                                  |
|                        | 100               | 56.9                  | 25,740                 | 30,780    | 150                                  |
|                        | 110               | 52.7                  | 21,920                 | 26,450    | 143                                  |
|                        | 120               | 48.3                  | 18,800                 | 22,920    | 135                                  |
|                        | 130               | 43.6                  | 16,210                 | 19,990    | 125                                  |
|                        | 140               | 38.4                  | 14,020                 | 17,510    | 113                                  |
|                        | 150               | 32.5                  | 12,150                 | 15,380    | 99                                   |
|                        | 160               | 25.4                  | 10,520                 | 13,540    | 81                                   |
|                        | 170               | 15.4                  | 9,100                  | 11,930    | 53                                   |
| 180'<br>boom           | 29                | 83.0                  | 112,940                | 112,940   | 187                                  |
|                        | 30                | 82.7                  | 112,940                | 112,940   | 187                                  |
|                        | 35                | 81.1                  | 107,960                | 112,940   | 186                                  |
|                        | 40                | 79.5                  | 93,760                 | 112,940   | 185                                  |
|                        | 50                | 76.2                  | 71,800                 | 85,310    | 183                                  |
|                        | 60                | 72.9                  | 55,650                 | 65,330    | 180                                  |
|                        | 70                | 69.6                  | 44,420                 | 52,010    | 177                                  |
|                        | 80                | 66.1                  | 36,090                 | 42,580    | 173                                  |
|                        | 90                | 62.6                  | 30,190                 | 35,870    | 168                                  |
|                        | 100               | 58.9                  | 25,390                 | 30,430    | 162                                  |
|                        | 110               | 55.1                  | 21,580                 | 26,110    | 156                                  |
|                        | 120               | 51.1                  | 18,460                 | 22,580    | 148                                  |
|                        | 130               | 46.9                  | 15,870                 | 19,650    | 139                                  |
|                        | 140               | 42.3                  | 13,670                 | 17,160    | 129                                  |
|                        | 150               | 37.3                  | 11,810                 | 15,040    | 117                                  |
|                        | 160               | 31.6                  | 10,180                 | 13,190    | 102                                  |
|                        | 170               | 24.7                  | 8,760                  | 11,590    | 83                                   |
|                        | 180               | 14.9                  | 7,500                  | 10,160    | 54                                   |
| 190'<br>boom           | 31                | 82.8                  | 104,390                | 104,390   | 197                                  |
|                        | 35                | 81.5                  | 104,390                | 104,390   | 196                                  |
|                        | 40                | 80.0                  | 92,800                 | 104,390   | 195                                  |
|                        | 50                | 76.9                  | 71,210                 | 85,020    | 193                                  |
|                        | 60                | 73.8                  | 55,120                 | 65,030    | 191                                  |
|                        | 70                | 70.7                  | 43,920                 | 51,680    | 187                                  |
|                        | 80                | 67.4                  | 35,750                 | 42,240    | 184                                  |
|                        | 90                | 64.1                  | 29,860                 | 35,540    | 179                                  |
|                        | 100               | 60.7                  | 25,060                 | 30,100    | 174                                  |
|                        | 110               | 57.2                  | 21,230                 | 25,760    | 168                                  |
|                        | 120               | 53.5                  | 18,120                 | 22,240    | 161                                  |
|                        | 130               | 49.6                  | 15,520                 | 19,290    | 153                                  |
|                        | 140               | 45.5                  | 13,330                 | 16,810    | 144                                  |
|                        | 150               | 41.1                  | 11,460                 | 14,690    | 133                                  |
|                        | 160               | 36.2                  | 9,830                  | 12,850    | 120                                  |
|                        | 170               | 30.7                  | 8,410                  | 11,240    | 105                                  |
|                        | 180               | 24.0                  | 7,160                  | 9,820     | 85                                   |
|                        | 190               | 14.5                  | 6,040                  | 8,550     | 55                                   |
| 200'<br>boom           | 32                | 82.8                  | 79,450                 | 79,450    | 207                                  |
|                        | 35                | 82.0                  | 79,450                 | 79,450    | 206                                  |
|                        | 40                | 80.5                  | 79,450                 | 79,450    | 205                                  |
|                        | 50                | 77.6                  | 70,760                 | 79,270    | 204                                  |
|                        | 60                | 74.7                  | 54,750                 | 64,880    | 201                                  |
|                        | 70                | 71.7                  | 43,690                 | 51,540    | 198                                  |
|                        | 80                | 68.6                  | 35,610                 | 42,100    | 194                                  |
|                        | 90                | 65.5                  | 29,750                 | 35,420    | 190                                  |
|                        | 100               | 62.3                  | 24,950                 | 29,990    | 185                                  |
|                        | 110               | 59.0                  | 21,120                 | 25,650    | 180                                  |
|                        | 120               | 55.6                  | 18,000                 | 22,120    | 173                                  |

| Boom Length<br>In Feet  | Radius<br>In Feet | Boom Angle<br>Degrees | Outriggers Set         |           | Ft. From<br>Boom<br>Pt. to<br>Ground |
|-------------------------|-------------------|-----------------------|------------------------|-----------|--------------------------------------|
|                         |                   |                       | Over Front*<br>Or Side | Over Rear |                                      |
| 200'<br>boom<br>(cont.) | 130               | 52.1                  | 15,420                 | 19,190    | 166                                  |
|                         | 140               | 48.3                  | 13,220                 | 16,710    | 157                                  |
|                         | 150               | 44.3                  | 11,350                 | 14,580    | 148                                  |
|                         | 160               | 40.0                  | 9,730                  | 12,750    | 136                                  |
|                         | 170               | 35.3                  | 8,320                  | 11,150    | 123                                  |
|                         | 180               | 29.9                  | 7,060                  | 9,720     | 107                                  |
|                         | 190               | 23.4                  | 5,950                  | 8,460     | 87                                   |
|                         | 200               | 14.1                  | 4,960                  | 7,340     | 56                                   |
| 210'<br>boom            | 33                | 82.9                  | 74,820                 | 74,820    | 217                                  |
|                         | 35                | 82.4                  | 74,800                 | 74,800    | 216                                  |
|                         | 40                | 81.0                  | 74,800                 | 74,800    | 216                                  |
|                         | 50                | 78.2                  | 70,050                 | 73,970    | 214                                  |
|                         | 60                | 75.4                  | 54,250                 | 64,600    | 211                                  |
|                         | 70                | 72.6                  | 43,210                 | 51,230    | 209                                  |
|                         | 80                | 69.7                  | 35,220                 | 41,780    | 205                                  |
|                         | 90                | 66.8                  | 29,440                 | 35,110    | 201                                  |
|                         | 100               | 63.8                  | 24,630                 | 29,660    | 196                                  |
|                         | 110               | 60.7                  | 20,800                 | 25,330    | 191                                  |
|                         | 120               | 57.5                  | 17,670                 | 21,790    | 185                                  |
|                         | 130               | 54.2                  | 15,070                 | 18,850    | 178                                  |
|                         | 140               | 50.7                  | 12,890                 | 16,370    | 171                                  |
|                         | 150               | 47.1                  | 11,010                 | 14,240    | 162                                  |
|                         | 160               | 43.2                  | 9,390                  | 12,400    | 152                                  |
|                         | 170               | 39.0                  | 7,970                  | 10,790    | 140                                  |
|                         | 180               | 34.4                  | 6,720                  | 9,380     | 126                                  |
|                         | 190               | 29.1                  | 5,610                  | 8,120     | 110                                  |
|                         | 200               | 22.8                  | 4,620                  | 7,000     | 89                                   |
|                         | 210               | 13.8                  | 3,730                  | 5,990     | 57                                   |
| 220'<br>boom            | 34                | 83.0                  | 69,920                 | 69,920    | 227                                  |
|                         | 35                | 82.7                  | 69,920                 | 69,920    | 226                                  |
|                         | 40                | 81.4                  | 69,860                 | 69,860    | 226                                  |
|                         | 50                | 78.8                  | 68,940                 | 68,940    | 224                                  |
|                         | 60                | 76.1                  | 53,750                 | 64,310    | 222                                  |
|                         | 70                | 73.4                  | 42,720                 | 50,920    | 219                                  |
|                         | 80                | 70.6                  | 34,750                 | 41,460    | 216                                  |
|                         | 90                | 67.9                  | 29,120                 | 34,790    | 212                                  |
|                         | 100               | 65.0                  | 24,300                 | 29,340    | 208                                  |
|                         | 110               | 62.1                  | 20,470                 | 25,000    | 203                                  |
|                         | 120               | 59.1                  | 17,340                 | 21,460    | 197                                  |
|                         | 130               | 56.0                  | 14,740                 | 18,510    | 191                                  |
|                         | 140               | 52.8                  | 12,540                 | 16,020    | 183                                  |
|                         | 150               | 49.4                  | 10,670                 | 13,900    | 175                                  |
|                         | 160               | 45.9                  | 9,050                  | 12,060    | 166                                  |
|                         | 170               | 42.1                  | 7,630                  | 10,450    | 156                                  |
|                         | 180               | 38.1                  | 6,380                  | 9,030     | 143                                  |
|                         | 190               | 33.6                  | 5,260                  | 7,770     | 129                                  |
|                         | 200               | 28.4                  | 4,280                  | 6,650     | 112                                  |
|                         | 210               | 22.2                  | 3,380                  | 5,640     | 91                                   |
|                         | 220               | 13.4                  | 2,580                  | 4,730     | 59                                   |
| 230'<br>boom            | 36                | 82.8                  | 64,050                 | 64,050    | 236                                  |
|                         | 40                | 81.8                  | 64,040                 | 64,040    | 236                                  |
|                         | 50                | 79.2                  | 63,190                 | 63,190    | 234                                  |
|                         | 60                | 76.7                  | 53,120                 | 61,500    | 232                                  |
|                         | 70                | 74.1                  | 42,230                 | 50,590    | 229                                  |
|                         | 80                | 71.5                  | 34,270                 | 41,110    | 226                                  |
|                         | 90                | 68.9                  | 28,670                 | 34,460    | 223                                  |
|                         | 100               | 66.2                  | 23,960                 | 29,000    | 219                                  |
|                         | 110               | 63.4                  | 20,120                 | 24,650    | 214                                  |
|                         | 120               | 60.6                  | 16,990                 | 21,100    | 208                                  |
|                         | 130               | 57.7                  | 14,380                 | 18,160    | 202                                  |
|                         | 140               | 54.7                  | 12,180                 | 15,660    | 196                                  |
|                         | 150               | 51.6                  | 10,310                 | 13,540    | 188                                  |
|                         | 160               | 48.3                  | 8,680                  | 11,690    | 180                                  |
|                         | 170               | 44.8                  | 7,260                  | 10,080    | 170                                  |
|                         | 180               | 41.2                  | 6,010                  | 8,660     | 159                                  |
|                         | 190               | 37.2                  | 4,890                  | 7,400     | 147                                  |
|                         | 200               | 32.8                  | 3,900                  | 6,280     | 132                                  |
|                         | 210               | 27.8                  | 3,010                  | 5,270     | 115                                  |
|                         | 220               | 21.7                  | 2,200                  | 4,350     | 93                                   |
|                         | 230               | 13.1                  | 1,470                  | 3,400     | 60                                   |
| 240'<br>boom            | 37                | 82.8                  | 59,860                 | 59,860    | 246                                  |
|                         | 40                | 82.1                  | 59,710                 | 59,710    | 246                                  |

(continued)

\*With Optional Front Bumper Outrigger

**LIFT CRANE RATINGS IN POUNDS (cont.)**

With 77SL Tubular Chord Lattice Boom With Hammerhead and "A-B"  
Counterweight (68,000 lbs.) In Extended Position Plus 180,000 lbs. Front Bumper  
Counterweight

| Boom Length<br>In Feet  | Radius<br>In Feet | Boom Angle<br>Degrees | Outriggers Set         |           | Ft. From Boom Pt. to Ground |
|-------------------------|-------------------|-----------------------|------------------------|-----------|-----------------------------|
|                         |                   |                       | Over Front*<br>Or Side | Over Rear |                             |
| 240'<br>boom<br>(cont.) | 50                | 79.7                  | 58,700                 | 58,700    | 244                         |
|                         | 60                | 77.3                  | 52,610                 | 57,090    | 242                         |
|                         | 70                | 74.8                  | 41,730                 | 50,260    | 240                         |
|                         | 80                | 72.3                  | 33,810                 | 40,780    | 237                         |
|                         | 90                | 69.8                  | 28,220                 | 34,120    | 233                         |
|                         | 100               | 67.2                  | 23,530                 | 28,660    | 229                         |
|                         | 110               | 64.6                  | 19,780                 | 24,300    | 225                         |
|                         | 120               | 61.9                  | 16,640                 | 20,750    | 220                         |
|                         | 130               | 59.2                  | 14,030                 | 17,800    | 214                         |
|                         | 140               | 56.4                  | 11,830                 | 15,310    | 208                         |

| Boom Length<br>In Feet  | Radius<br>In Feet | Boom Angle<br>Degrees | Outriggers Set         |           | Ft. From Boom Pt. to Ground |
|-------------------------|-------------------|-----------------------|------------------------|-----------|-----------------------------|
|                         |                   |                       | Over Front*<br>Or Side | Over Rear |                             |
| 240'<br>boom<br>(cont.) | 150               | 53.4                  |                        | 13,170    | 201                         |
|                         | 160               | 50.4                  |                        | 11,330    | 193                         |
|                         | 170               | 47.2                  | 9,940                  | 9,710     | 184                         |
|                         | 180               | 43.8                  | 8,210                  | 8,190     | 174                         |
|                         | 190               | 40.3                  | 6,890                  | 7,030     | 163                         |
|                         | 200               | 36.4                  | 5,640                  | 5,910     | 150                         |
|                         | 210               | 32.1                  | 4,520                  | 4,890     | 1335                        |
|                         | 220               | 27.2                  | 3,540                  | 3,990     | 117                         |
|                         | 230               | 21.2                  | 2,620                  | 3,160     | 95                          |
|                         | 240               | 12.9                  | 1,820                  | 1,820     | 61                          |

8470.25

\*With Optional Front Bumper Outrigger

**LIFT CRANE RATINGS IN POUNDS**

With 77SL Tubular Chord Lattice Boom With Hammerhead and "A"  
Counterweight (30,200 lbs.) In Extended Position Plus 18,000 lbs. Front Bumper  
Counterweight

| Boom Lgth.  | Radius In Feet | Boom Angle Degrees | Free Over Side | Free Over Rear | Outriggers Set         |           | Feet From Boom Point |
|-------------|----------------|--------------------|----------------|----------------|------------------------|-----------|----------------------|
|             |                |                    |                |                | Over Front*<br>Or Side | Over Rear |                      |
| 50'<br>boom | 12             | 84.3               | 70,510         | 106,660        | 343,280                | 360,000   | 58                   |
|             | 13             | 83.1               | 65,760         | 102,780        | 323,130                | 360,000   | 58                   |
|             | 14             | 82.0               | 61,470         | 99,060         | 304,020                | 340,150   | 58                   |
|             | 15             | 80.9               | 57,730         | 95,670         | 287,330                | 317,500   | 58                   |
|             | 20             | 75.0               | 43,560         | 81,300         | 222,390                | 238,120   | 57                   |
|             | 25             | 69.0               | 34,270         | 70,340         | 172,150                | 190,480   | 55                   |
|             | 30             | 62.8               | 27,810         | 61,800         | 122,820                | 146,770   | 53                   |
|             | 35             | 56.0               | 22,950         | 54,820         | 94,310                 | 113,300   | 50                   |
|             | 40             | 48.7               | 19,110         | 45,590         | 75,900                 | 91,630    | 46                   |
|             | 50             | 29.7               | 13,550         | 33,340         | 53,580                 | 65,280    | 32                   |
| 60'<br>boom | 13             | 84.3               | 65,140         | 101,820        | 321,640                | 360,000   | 68                   |
|             | 14             | 83.3               | 60,870         | 98,130         | 303,840                | 339,970   | 68                   |
|             | 15             | 82.4               | 57,150         | 94,770         | 287,060                | 317,330   | 68                   |
|             | 20             | 77.6               | 43,080         | 80,530         | 222,200                | 237,990   | 67                   |
|             | 25             | 72.6               | 33,840         | 69,640         | 170,220                | 190,360   | 65                   |
|             | 30             | 67.6               | 27,450         | 61,200         | 123,170                | 147,100   | 64                   |
|             | 35             | 62.3               | 22,640         | 54,320         | 94,570                 | 113,550   | 61                   |
|             | 40             | 56.7               | 18,830         | 45,560         | 76,110                 | 91,820    | 58                   |
|             | 50             | 44.1               | 13,380         | 33,370         | 53,780                 | 65,480    | 50                   |
|             | 60             | 26.9               | 9,500          | 25,520         | 40,620                 | 49,940    | 35                   |
| 70'<br>boom | 14             | 84.3               | 60,240         | 97,230         | 302,380                | 339,780   | 78                   |
|             | 15             | 83.4               | 56,560         | 93,910         | 285,750                | 317,170   | 78                   |
|             | 20             | 79.4               | 42,560         | 79,760         | 221,800                | 237,860   | 77                   |
|             | 25             | 75.2               | 33,370         | 68,940         | 168,420                | 190,240   | 76                   |
|             | 30             | 70.9               | 27,050         | 60,590         | 123,360                | 147,290   | 74                   |
|             | 35             | 66.5               | 22,280         | 53,770         | 94,700                 | 113,670   | 72                   |
|             | 40             | 62.0               | 18,490         | 45,440         | 76,180                 | 91,890    | 70                   |
|             | 50             | 52.1               | 13,110         | 33,270         | 53,830                 | 65,520    | 63                   |
|             | 60             | 40.6               | 9,290          | 25,540         | 40,680                 | 49,990    | 53                   |
|             | 70             | 24.7               | 6,510          | 20,080         | 31,630                 | 39,800    | 37                   |
| 80'<br>boom | 14             | 85.0               | 59,470         | 96,200         | 302,190                | 339,590   | 88                   |
|             | 15             | 84.3               | 55,820         | 92,920         | 285,580                | 317,000   | 88                   |
|             | 20             | 80.7               | 41,900         | 78,870         | 221,250                | 237,730   | 87                   |
|             | 25             | 77.1               | 32,760         | 68,120         | 166,850                | 190,130   | 86                   |
|             | 30             | 73.4               | 26,500         | 59,840         | 122,430                | 147,330   | 85                   |
|             | 35             | 69.6               | 21,770         | 53,080         | 94,690                 | 113,650   | 83                   |
|             | 40             | 65.7               | 18,000         | 45,200         | 76,120                 | 91,820    | 81                   |
|             | 50             | 57.6               | 12,670         | 33,040         | 53,730                 | 65,420    | 76                   |

| Boom Lgth.             | Radius In Feet | Boom Angle Degrees | Free Over Side | Free Over Rear | Outriggers Set         |           | Feet From Boom Point |
|------------------------|----------------|--------------------|----------------|----------------|------------------------|-----------|----------------------|
|                        |                |                    |                |                | Over Front*<br>Or Side | Over Rear |                      |
| 80'<br>boom<br>(cont.) | 60             | 48.5               | 8,890          | 25,240         | 40,570                 | 49,870    | 68                   |
|                        | 70             | 37.8               | 6,200          | 19,920         | 31,630                 | 39,730    | 57                   |
|                        | 80             | 23.0               | 4,000          | 15,890         | 25,140                 | 32,430    | 39                   |
| 90'<br>boom            | 15             | 84.9               | 55,120         | 91,990         | 284,260                | 316,830   | 98                   |
|                        | 20             | 81.7               | 41,260         | 78,030         | 220,640                | 237,590   | 97                   |
|                        | 25             | 78.5               | 32,180         | 67,350         | 164,870                | 190,020   | 96                   |
|                        | 30             | 75.3               | 25,960         | 59,130         | 121,440                | 147,320   | 95                   |
|                        | 35             | 71.9               | 21,270         | 52,420         | 94,630                 | 113,580   | 94                   |
|                        | 40             | 68.6               | 17,520         | 44,930         | 76,010                 | 91,710    | 92                   |
|                        | 50             | 61.5               | 12,240         | 32,790         | 53,600                 | 65,280    | 87                   |
|                        | 60             | 54.0               | 8,480          | 24,980         | 40,400                 | 49,710    | 81                   |
|                        | 70             | 45.5               | 5,840          | 19,700         | 31,540                 | 39,590    | 72                   |
|                        | 80             | 35.5               | 3,690          | 15,700         | 25,070                 | 32,310    | 60                   |
| 100'<br>boom           | 90             | 21.6               | 1,960          | 12,620         | 20,310                 | 26,850    | 41                   |
|                        | 16             | 84.8               | 52,070         | 89,100         | 247,040                | 247,040   | 108                  |
|                        | 20             | 82.6               | 41,470         | 78,190         | 203,890                | 237,480   | 107                  |
|                        | 25             | 79.7               | 32,570         | 67,710         | 163,290                | 190,080   | 107                  |
|                        | 30             | 76.8               | 26,220         | 59,370         | 120,960                | 147,600   | 106                  |
|                        | 35             | 73.8               | 21,550         | 52,670         | 94,710                 | 113,860   | 104                  |
|                        | 40             | 70.8               | 17,800         | 45,180         | 76,280                 | 91,980    | 103                  |
|                        | 50             | 64.6               | 12,550         | 33,060         | 53,890                 | 65,570    | 98                   |
|                        | 60             | 58.1               | 8,800          | 25,260         | 40,700                 | 50,000    | 93                   |
|                        | 70             | 50.9               | 6,200          | 20,010         | 31,880                 | 39,920    | 86                   |
| 110'<br>boom           | 80             | 43.0               | 4,070          | 16,030         | 25,420                 | 32,650    | 76                   |
|                        | 90             | 33.6               | 2,380          | 12,980         | 20,690                 | 27,230    | 63                   |
|                        | 100            | 20.4               | 970            | 10,530         | 17,030                 | 22,990    | 42                   |
|                        | 17             | 84.8               | 48,230         | 85,100         | 234,050                | 234,050   | 118                  |
|                        | 20             | 83.2               | 40,760         | 77,270         | 201,770                | 226,950   | 117                  |
|                        | 25             | 80.6               | 31,930         | 66,870         | 161,730                | 189,990   | 117                  |
|                        | 30             | 78.0               | 25,610         | 58,570         | 119,950                | 147,550   | 116                  |
|                        | 35             | 75.3               | 20,970         | 51,920         | 94,050                 | 113,750   | 115                  |
|                        | 40             | 72.6               | 17,240         | 44,860         | 76,130                 | 91,830    | 113                  |
|                        | 50             | 67.1               | 12,030         | 32,750         | 53,700                 | 65,380    | 109                  |
| 110'<br>boom           | 60             | 61.3               | 8,310          | 24,950         | 40,480                 | 49,780    | 105                  |
|                        | 70             | 55.1               | 5,740          | 19,710         | 31,710                 | 39,690    | 98                   |
|                        | 80             | 48.4               | 3,640          | 15,750         | 25,250                 | 32,430    | 90                   |
|                        | 90             | 40.9               | 1,970          | 12,710         | 20,510                 | 27,010    | 80                   |
|                        | 100            | 31.9               | 590            | 10,280         | 16,870                 | 22,790    | 66                   |
|                        | 110            | 19.4               |                | 8,300          | 13,980                 | 19,410    | 44                   |

\*With Optional Front Bumper Outrigger

**LIFT CRANE RATINGS IN POUNDS (cont.)**

With 77SL Tubular Chord Lattice Boom With Hammerhead and "A"  
Counterweight (30,200 lbs.) In Extended Position Plus 18,000 lbs. Front Bumper  
Counterweight

| Boom<br>Lgth. | Radius<br>In<br>Feet | Boom<br>Angle<br>Degrees | Free<br>Over<br>Side | Free<br>Over<br>Rear | Outriggers Set |           | Feet<br>From<br>Boom<br>Point |
|---------------|----------------------|--------------------------|----------------------|----------------------|----------------|-----------|-------------------------------|
|               |                      |                          |                      |                      | Over Front*    | Over Rear |                               |
| 120'<br>boom  | 18                   | 84.7                     | 44,960               | 81,590               | 220,560        | 220,560   | 128                           |
|               | 20                   | 83.8                     | 40,090               | 76,400               | 199,920        | 216,990   | 128                           |
|               | 25                   | 81.4                     | 31,310               | 66,070               | 160,100        | 189,890   | 127                           |
|               | 30                   | 79.0                     | 25,040               | 57,840               | 118,900        | 147,490   | 126                           |
|               | 35                   | 76.6                     | 20,430               | 51,240               | 93,360         | 113,630   | 125                           |
|               | 40                   | 74.1                     | 16,700               | 44,540               | 75,960         | 91,650    | 124                           |
|               | 50                   | 69.1                     | 11,530               | 32,430               | 53,490         | 65,170    | 120                           |
|               | 60                   | 63.9                     | 7,820                | 24,620               | 40,240         | 49,540    | 116                           |
|               | 70                   | 58.4                     | 5,290                | 19,420               | 31,530         | 39,460    | 110                           |
|               | 80                   | 52.6                     | 3,200                | 15,450               | 25,050         | 32,190    | 103                           |
|               | 90                   | 46.2                     | 1,550                | 12,410               | 20,300         | 26,770    | 95                            |
|               | 100                  | 39.0                     |                      | 10,000               | 16,670         | 22,560    | 83                            |
| 130'<br>boom  | 110                  | 30.5                     |                      | 8,040                | 13,790         | 19,190    | 69                            |
|               | 120                  | 18.5                     |                      | 6,400                | 11,440         | 16,420    | 46                            |
|               | 19                   | 84.7                     |                      |                      | 207,960        | 207,960   | 138                           |
|               | 20                   | 84.3                     |                      |                      | 198,080        | 206,060   | 138                           |
|               | 25                   | 82.1                     |                      |                      | 158,480        | 189,800   | 137                           |
|               | 30                   | 79.8                     |                      |                      | 117,820        | 147,390   | 136                           |
|               | 35                   | 77.6                     |                      |                      | 92,650         | 113,480   | 135                           |
|               | 40                   | 75.3                     |                      |                      | 75,460         | 91,450    | 134                           |
|               | 50                   | 70.7                     |                      |                      | 53,250         | 64,920    | 131                           |
|               | 60                   | 66.0                     |                      |                      | 39,960         | 49,260    | 127                           |
|               | 70                   | 61.1                     |                      |                      | 31,300         | 39,190    | 122                           |
|               | 80                   | 55.9                     |                      |                      | 24,810         | 31,900    | 116                           |
| 140'<br>boom  | 90                   | 50.3                     |                      |                      | 20,040         | 26,470    | 108                           |
|               | 100                  | 44.3                     |                      |                      | 16,400         | 22,260    | 99                            |
|               | 110                  | 37.4                     |                      |                      | 13,520         | 18,900    | 87                            |
|               | 120                  | 29.2                     |                      |                      | 11,190         | 16,150    | 71                            |
|               | 130                  | 17.8                     |                      |                      | 9,240          | 13,850    | 47                            |
|               | 20                   | 84.7                     |                      |                      | 190,730        | 190,730   | 148                           |
|               | 25                   | 82.6                     |                      |                      | 156,690        | 185,980   | 147                           |
|               | 30                   | 80.6                     |                      |                      | 116,950        | 147,270   | 146                           |
|               | 35                   | 78.5                     |                      |                      | 91,910         | 113,300   | 145                           |
|               | 40                   | 76.4                     |                      |                      | 74,940         | 91,230    | 144                           |
|               | 50                   | 72.2                     |                      |                      | 52,990         | 64,660    | 141                           |
|               | 60                   | 67.8                     |                      |                      | 39,680         | 48,970    | 138                           |
| 150'<br>boom  | 70                   | 63.3                     |                      |                      | 31,070         | 38,900    | 133                           |
|               | 80                   | 58.6                     |                      |                      | 24,550         | 31,610    | 128                           |
|               | 90                   | 53.7                     |                      |                      | 19,780         | 26,170    | 121                           |
|               | 100                  | 48.4                     |                      |                      | 16,130         | 21,960    | 113                           |
|               | 110                  | 42.6                     |                      |                      | 13,240         | 18,590    | 103                           |
|               | 120                  | 36.0                     |                      |                      | 10,910         | 15,850    | 90                            |
|               | 130                  | 28.1                     |                      |                      | 8,980          | 13,560    | 74                            |
|               | 140                  | 17.1                     |                      |                      | 7,330          | 11,600    | 49                            |
|               | 26                   | 82.7                     |                      |                      | 145,370        | 145,930   | 157                           |
|               | 30                   | 81.2                     |                      |                      | 115,940        | 143,940   | 156                           |
|               | 35                   | 79.3                     |                      |                      | 91,500         | 113,260   | 156                           |
|               | 40                   | 77.3                     |                      |                      | 74,590         | 91,180    | 155                           |
| 160'<br>boom  | 50                   | 73.4                     |                      |                      | 52,970         | 64,640    | 152                           |
|               | 60                   | 69.4                     |                      |                      | 39,660         | 48,950    | 149                           |
|               | 70                   | 65.2                     |                      |                      | 31,060         | 38,910    | 144                           |
|               | 80                   | 60.9                     |                      |                      | 24,550         | 31,620    | 139                           |
|               | 90                   | 56.4                     |                      |                      | 19,780         | 26,180    | 133                           |
|               | 100                  | 51.7                     |                      |                      | 16,140         | 21,970    | 126                           |
|               | 110                  | 46.6                     |                      |                      | 13,270         | 18,620    | 117                           |
|               | 120                  | 41.0                     |                      |                      | 10,940         | 15,880    | 106                           |
|               | 130                  | 34.7                     |                      |                      | 9,010          | 13,590    | 93                            |
|               | 140                  | 27.1                     |                      |                      | 7,380          | 11,660    | 76                            |
|               | 150                  | 16.4                     |                      |                      | 5,980          | 9,990     | 50                            |
|               | 27                   | 82.8                     |                      |                      | 134,540        | 134,540   | 167                           |
| 160'<br>boom  | 30                   | 81.8                     |                      |                      | 114,930        | 134,540   | 167                           |
|               | 35                   | 79.9                     |                      |                      | 90,790         | 113,120   | 166                           |
|               | 40                   | 78.1                     |                      |                      | 73,950         | 90,990    | 165                           |
|               | 50                   | 74.4                     |                      |                      | 52,730         | 64,400    | 162                           |
|               | 60                   | 70.7                     |                      |                      | 39,390         | 48,680    | 159                           |
|               | 70                   | 66.9                     |                      |                      | 30,840         | 38,630    | 155                           |
|               | 80                   | 62.9                     |                      |                      | 24,300         | 31,320    | 151                           |
|               | 90                   | 58.8                     |                      |                      | 19,520         | 25,890    | 145                           |
|               | 100                  | 54.5                     |                      |                      | 15,870         | 21,670    | 138                           |
|               | 110                  | 49.9                     |                      |                      | 12,980         | 18,310    | 130                           |
|               | 120                  | 45.0                     |                      |                      | 10,650         | 15,570    | 121                           |
|               | 130                  | 39.6                     |                      |                      | 8,720          | 13,280    | 110                           |
| 160'<br>boom  | 140                  | 33.6                     |                      |                      | 7,100          | 11,360    | 96                            |
|               | 150                  | 26.2                     |                      |                      | 5,710          | 9,700     | 78                            |
|               | 160                  | 15.9                     |                      |                      | 4,500          | 8,250     | 51                            |

| Boom<br>Lgth. | Radius<br>In<br>Feet | Boom<br>Angle<br>Degrees | Free<br>Over<br>Side | Free<br>Over<br>Rear | Outriggers Set |           | Feet<br>From<br>Boom<br>Point |
|---------------|----------------------|--------------------------|----------------------|----------------------|----------------|-----------|-------------------------------|
|               |                      |                          |                      |                      | Over Front*    | Over Rear |                               |
| 170'<br>boom  | 28                   | 82.9                     |                      |                      | 123,230        | 123,230   | 177                           |
|               | 30                   | 82.2                     |                      |                      | 114,120        | 123,230   | 177                           |
|               | 35                   | 80.5                     |                      |                      | 90,050         | 112,950   | 176                           |
|               | 40                   | 78.8                     |                      |                      | 73,440         | 90,780    | 175                           |
|               | 50                   | 75.4                     |                      |                      | 52,380         | 64,150    | 173                           |
|               | 60                   | 71.9                     |                      |                      | 39,110         | 48,400    | 170                           |
|               | 70                   | 68.3                     |                      |                      | 30,600         | 38,350    | 166                           |
|               | 80                   | 64.6                     |                      |                      | 24,040         | 31,030    | 162                           |
|               | 90                   | 60.8                     |                      |                      | 19,250         | 25,580    | 157                           |
|               | 100                  | 56.9                     |                      |                      | 15,590         | 21,370    | 150                           |
|               | 110                  | 52.7                     |                      |                      | 12,700         | 18,000    | 143                           |
|               | 120                  | 48.3                     |                      |                      | 10,350         | 15,250    | 135                           |
| 180'<br>boom  | 130                  | 43.6                     |                      |                      | 8,420          | 12,960    | 125                           |
|               | 140                  | 38.4                     |                      |                      | 6,790          | 11,030    | 113                           |
|               | 150                  | 32.5                     |                      |                      | 5,410          | 9,380     | 99                            |
|               | 160                  | 25.4                     |                      |                      | 4,200          | 7,940     | 81                            |
|               | 170                  | 15.4                     |                      |                      | 3,160          | 6,680     | 53                            |
|               | 29                   | 83.0                     |                      |                      | 112,940        | 112,940   | 187                           |
|               | 30                   | 82.7                     |                      |                      | 112,940        | 112,940   | 187                           |
|               | 35                   | 81.1                     |                      |                      | 89,350         | 112,790   | 186                           |
|               | 40                   | 79.5                     |                      |                      | 72,780         | 90,550    | 185                           |
|               | 50                   | 76.2                     |                      |                      | 51,910         | 63,890    | 183                           |
|               | 60                   | 72.9                     |                      |                      | 38,820         | 48,100    | 180                           |
|               | 70                   | 69.6                     |                      |                      | 30,340         | 38,050    | 177                           |
| 190'<br>boom  | 80                   | 66.1                     |                      |                      | 23,770         | 30,710    | 173                           |
|               | 90                   | 62.6                     |                      |                      | 18,960         | 25,250    | 168                           |
|               | 100                  | 58.9                     |                      |                      | 15,280         | 21,020    | 162                           |
|               | 110                  | 55.1                     |                      |                      | 12,390         | 17,660    | 156                           |
|               | 120                  | 51.1                     |                      |                      | 10,040         | 14,910    | 148                           |
|               | 130                  | 46.9                     |                      |                      | 8,100          | 12,620    | 139                           |
|               | 140                  | 42.3                     |                      |                      | 6,460          | 10,680    | 129                           |
|               | 150                  | 37.3                     |                      |                      | 5,080          | 9,030     | 117                           |
|               | 160                  | 31.6                     |                      |                      | 3,880          | 7,590     | 102                           |
|               | 170                  | 24.7                     |                      |                      | 2,830          | 6,340     | 83                            |
|               | 180                  | 14.9                     |                      |                      | 1,900          | 5,220     | 54                            |
|               | 31                   | 82.8                     |                      |                      | 104,390        | 140,390   | 197                           |
| 200'<br>boom  | 35                   | 81.5                     |                      |                      | 88,590         | 104,390   | 196                           |
|               | 40                   | 80.0                     |                      |                      | 72,250         | 90,320    | 195                           |
|               | 50                   | 76.9                     |                      |                      | 51,440         | 63,260    | 193                           |
|               | 60                   | 73.8                     |                      |                      | 38,520         | 47,800    | 191                           |
|               | 70                   | 70.7                     |                      |                      | 30,030         | 37,740    | 187                           |
|               | 80                   | 67.4                     |                      |                      | 23,480         | 30,390    | 184                           |
|               | 90                   | 64.1                     |                      |                      | 18,660         | 24,920    | 179                           |
|               | 100                  | 60.7                     |                      |                      | 14,970         | 20,690    | 174                           |
|               | 110                  | 57.2                     |                      |                      | 12,060         | 17,310    | 168                           |
|               | 120                  | 53.5                     |                      |                      | 9,720          | 14,570    | 161                           |
|               | 130                  | 49.6                     |                      |                      | 7,770          | 12,270    | 153                           |
|               | 140                  | 45.5                     |                      |                      | 6,140          | 10,340    | 144                           |
| 200'<br>boom  | 150                  | 41.1                     |                      |                      | 4,750          | 8,680     | 133                           |
|               | 160                  | 36.2                     |                      |                      | 3,540          | 7,250     | 120                           |
|               | 170                  | 30.7                     |                      |                      | 2,500          | 5,990     | 105                           |
|               | 180                  | 24.0                     |                      |                      | 1,580          | 4,890     | 85                            |
|               | 190                  | 14.5                     |                      |                      | 760            | 3,900     | 55                            |
|               | 32                   | 82.8                     |                      |                      | 79,450         | 79,450    | 207                           |
|               | 35                   | 82.0                     |                      |                      | 79,450         | 79,450    | 206                           |
|               | 40                   | 80.5                     |                      |                      | 71,630         | 79,450    | 205                           |
|               | 50                   | 77.6                     |                      |                      | 51,180         | 63,470    | 204                           |
|               | 60                   | 74.7                     |                      |                      | 38,370         | 47,650    | 201                           |
|               | 70                   | 71.7                     |                      |                      | 29,910         | 37,620    | 198                           |
|               | 80                   | 68.6                     |                      |                      | 23,350         | 30,270    | 194                           |
|               | 90                   | 65.5                     |                      |                      | 18,530         | 24,800    | 190                           |
| 200'<br>boom  | 100                  | 62.3                     |                      |                      | 14,850         | 20,570    | 185                           |
|               | 110                  | 59.0                     |                      |                      | 11,940         | 17,200    | 180                           |
|               | 120                  | 55.6                     |                      |                      | 9,590          | 14,450    | 173                           |
|               | 130                  | 52.1                     |                      |                      | 7,660          | 12,170    | 166                           |
|               | 140                  | 48.3                     |                      |                      | 6,020          | 10,230    | 157                           |
|               | 150                  | 44.3                     |                      |                      | 4,640          | 8,580     | 148                           |
|               | 160                  | 40.0                     |                      |                      | 3,440          | 7,150     | 136                           |
|               | 170                  | 35.3                     |                      |                      | 2,400          | 5,900     | 123                           |
|               | 180                  | 29.9                     |                      |                      | 1,470          | 4,790     | 107                           |
|               | 190                  | 23.4                     |                      |                      | 660            | 3,810     | 97                            |
|               | 200                  | 14.1                     |                      |                      |                | 2,930     | 56                            |

(continued)

\*With Optional Front Bumper Outrigger



# LIFT CRANE RATINGS IN POUNDS (cont.)

With 77SL Tubular Chord Lattice Boom With Hammerhead and "A"  
Counterweight (30,200 lbs.) In Extended Position Plus 18,000 lbs. Front Bumper  
Counterweight

| Boom<br>Lgth. | Radius<br>In<br>Feet | Boom<br>Angle<br>Degrees | Free<br>Over<br>Side | Free<br>Over<br>Rear | Outriggers Set |           | Feet<br>From<br>Boom<br>Point |
|---------------|----------------------|--------------------------|----------------------|----------------------|----------------|-----------|-------------------------------|
|               |                      |                          |                      |                      | Over Front*    | Over Rear |                               |
| 210'<br>boom  | 33                   | 82.9                     |                      |                      | 74,820         | 74,820    | 217                           |
|               | 35                   | 82.4                     |                      |                      | 74,800         | 74,800    | 216                           |
|               | 40                   | 81.0                     |                      |                      | 71,130         | 74,800    | 216                           |
|               | 50                   | 78.2                     |                      |                      | 50,730         | 63,220    | 214                           |
|               | 60                   | 75.4                     |                      |                      | 38,010         | 47,370    | 211                           |
|               | 70                   | 72.6                     |                      |                      | 29,620         | 37,340    | 209                           |
|               | 80                   | 69.7                     |                      |                      | 23,090         | 29,970    | 205                           |
|               | 90                   | 66.8                     |                      |                      | 18,250         | 24,490    | 201                           |
|               | 100                  | 63.8                     |                      |                      | 14,560         | 20,250    | 196                           |
|               | 110                  | 60.7                     |                      |                      | 11,640         | 16,880    | 191                           |

| Boom<br>Lgth.           | Radius<br>In<br>Feet | Boom<br>Angle<br>Degrees | Free<br>Over<br>Side | Free<br>Over<br>Rear | Outriggers Set |           | Feet<br>From<br>Boom<br>Point |
|-------------------------|----------------------|--------------------------|----------------------|----------------------|----------------|-----------|-------------------------------|
|                         |                      |                          |                      |                      | Over Front*    | Over Rear |                               |
| 210'<br>boom<br>(cont.) | 120                  | 57.5                     |                      |                      | 9,290          | 14,120    | 185                           |
|                         | 130                  | 54.2                     |                      |                      | 7,340          | 11,820    | 178                           |
|                         | 140                  | 50.7                     |                      |                      | 5,710          | 9,900     | 171                           |
|                         | 150                  | 47.1                     |                      |                      | 4,310          | 8,230     | 162                           |
|                         | 160                  | 43.2                     |                      |                      | 3,110          | 6,800     | 152                           |
|                         | 170                  | 39.0                     |                      |                      | 2,060          | 5,550     | 140                           |
|                         | 180                  | 34.4                     |                      |                      | 1,150          | 4,450     | 126                           |
|                         | 190                  | 29.1                     |                      |                      |                | 3,460     | 110                           |
|                         | 200                  | 22.8                     |                      |                      |                | 2,590     | 89                            |
|                         | 210                  | 13.8                     |                      |                      |                | 1,800     | 57                            |

\*With Optional Front Bumper Outrigger

8470.23

## CRANE RATING DATA

Load ratings are in pounds and do not exceed 85% of the load which would cause tipping with crane standing level on firm uniformly supporting surface. Safe loads depend on ground conditions, boom length, radius of operation, and proper handling, all of which much be taken into consideration by user.

Tire inflation pressure for "Free Ratings" is 115 P.S.I. Free ratings do not exceed maximum permissible tire load. Tire pressure shall be reduced for over-the-road-travel.

Approved working areas "Free Over Side" and "Free Over Rear" are shown under Diagram No. 1. Approved working areas "Outriggers Extended and Set Over Side, Front or Rear" are shown under Diagram No. 2.

"Radius in feet" is the horizontal distance at crane base level from center pin to a vertical line through the center of gravity of the suspended load.

Lifting is approved only in those areas for which ratings are shown in the rating chart. Blocks, slings, buckets, and other load carrying devices are considered part of the load. Retractable A-frame must be in fully raised position for all ratings. Ratings in shaded areas are limited by strength of material or factors other than stability.

Main load line is 1 inch diameter with a minimum breaking strength of 115,000 pounds. Boom suspension line is 3/4 inch diameter with a minimum breaking strength of 58,800 pounds. Boom suspension pendants are 1-1/4 inch diameter with a minimum breaking strength of 175,800 pounds.

Boom and jib erection is over the rear of the machine with outriggers extended and set and with specified counterweight. A-frame must be fully raised and blocks, slings and other load carrying devices must be on the ground.

Compliance to B30.5 based on AMERICAN® carrier mounting.

Designed and rated to comply with ANSI Code B30.5.

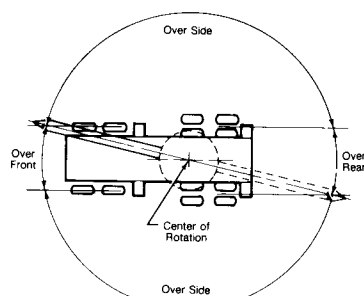


DIAGRAM NO.1  
FREE RATINGS

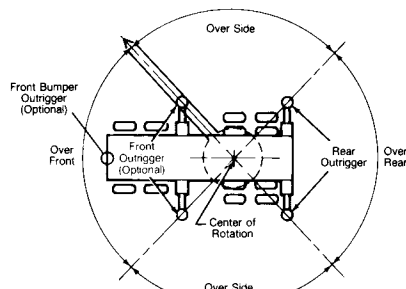


DIAGRAM NO.2  
OUTRIGGERS EXTENDED AND SET

## LOAD HOISTING DATA

| Maximum<br>Lifting<br>Capacity<br>In Pounds | Minimum<br>Parts<br>of<br>Load Line | Maximum<br>Hoisting Distance |                     |
|---------------------------------------------|-------------------------------------|------------------------------|---------------------|
|                                             |                                     | Main (R.H.)<br>Drum          | Aux. (L.H.)<br>Drum |
| 360,000                                     | 12                                  | 70                           | 49                  |
| 330,000                                     | 11                                  | 76                           | 53                  |
| 300,000                                     | 10                                  | 84                           | 59                  |
| 270,000                                     | 9                                   | 93                           | 65                  |
| 240,000                                     | 8                                   | 105                          | 73                  |
| 210,000                                     | 7                                   | 120                          | 84                  |
| 180,000                                     | 6                                   | 140                          | 98                  |
| 150,000                                     | 5                                   | 168                          | 118                 |
| 120,000                                     | 4                                   | 210                          | 147                 |
| 90,000                                      | 3                                   | 280                          | 196                 |
| 60,000                                      | 2                                   | 420                          | 295                 |
| 30,000                                      | 1                                   | 480                          | 590                 |

Based on 1" dia. AAA Load Line With 115,000 lbs. Minimum Breaking Strength

**BOOM AND JIB ERECTION**

**With “AB” Counterweight In Extended Position Plus 18,000 Lb. Front Bumper Counterweight**

| Boom Length              | NO. 9HL Jib | NO. 16HL Jib |
|--------------------------|-------------|--------------|
| 280 ft. 77SL Tapered Tip | —           | —            |
| 270 ft. 77SL Tapered Tip | 80 ft.      | 80 ft.       |
| 260 ft. 77SL Tapered Tip | 80 ft.      | 100 ft.      |
| 240 ft. 77SL Hammerhead  | —           | —            |
| 230 ft. 77SL Hammerhead  | 80 ft.      | 70 ft.       |
| 220 ft. 77SL Hammerhead  | 80 ft.      | 80 ft.       |

**With “AB” Counterweight In Extended Position Less Front Bumper Counterweight**

| Boom Length              | NO. 9HL Jib | NO. 16HL Jib |
|--------------------------|-------------|--------------|
| 280 ft. 77SL Tapered Tip | —           | —            |
| 260 ft. 77SL Tapered Tip | 40 ft.      | 40 ft.       |
| 250 ft. 77SL Tapered Tip | 60 ft.      | 50 ft.       |
| 240 ft. 77SL Tapered Tip | 80 ft.      | 90 ft.       |
| 230 ft. 77SL Hammerhead  | —           | —            |
| 210 ft. 77SL Hammerhead  | 70 ft.      | 70 ft.       |
| 200 ft. 77SL Hammerhead  | 80 ft.      | 80 ft.       |

**BOOM COMPOSITION****77SL HAMMERHEAD**

| Boom Length In Feet | 30 ft. 77S Inner | 10 ft. 77S Center | 20 ft. 77S Center | 50 ft. 77L Center | 19.5 ft. 77H Outer Base | Hammerhead |
|---------------------|------------------|-------------------|-------------------|-------------------|-------------------------|------------|
| 50                  | 1                | 0                 | 0                 | 0                 | 1                       | 1          |
| 60                  | 1                | 1                 | 0                 | 0                 | 1                       | 1          |
| 70                  | 1                | 0                 | 1                 | 0                 | 1                       | 1          |
| 80                  | 1                | 1                 | 1                 | 0                 | 1                       | 1          |
| 90                  | 1                | 0                 | 2                 | 0                 | 1                       | 1          |
| 100                 | 1                | 0                 | 0                 | 1                 | 1                       | 1          |
| 110                 | 1                | 1                 | 0                 | 1                 | 1                       | 1          |
| 120                 | 1                | 0                 | 1                 | 1                 | 1                       | 1          |
| 130                 | 1                | 1                 | 1                 | 1                 | 1                       | 1          |
| 140                 | 1                | 0                 | 2                 | 1                 | 1                       | 1          |
| 150                 | 1                | 0                 | 0                 | 2                 | 1                       | 1          |
| 160                 | 1                | 1                 | 0                 | 2                 | 1                       | 1          |
| 170                 | 1                | 0                 | 1                 | 2                 | 1                       | 1          |
| 180                 | 1                | 1                 | 1                 | 2                 | 1                       | 1          |
| 190                 | 1                | 0                 | 2                 | 2                 | 1                       | 1          |
| 200                 | 1                | 0                 | 0                 | 3                 | 1                       | 1          |
| 210                 | 1                | 1                 | 0                 | 3                 | 1                       | 1          |
| 220                 | 1                | 0                 | 1                 | 3                 | 1                       | 1          |
| 230                 | 1                | 1                 | 1                 | 3                 | 1                       | 1          |
| 240                 | 1                | 0                 | 2                 | 3                 | 1                       | 1          |

**77SL TAPERED TIP**

| Boom Length In Feet | 30 ft. 77S Inner | 10 ft. 77S Center | 20 ft. 77S Center | 50 ft. 77L Center | 19.5 ft. 77H Outer Base | 30 ft. 77L Tapered Tip |
|---------------------|------------------|-------------------|-------------------|-------------------|-------------------------|------------------------|
| 80                  | 1                | 0                 | 0                 | 0                 | 1                       | 1                      |
| 90                  | 1                | 1                 | 0                 | 0                 | 1                       | 1                      |
| 100                 | 1                | 0                 | 1                 | 0                 | 1                       | 1                      |
| 110                 | 1                | 1                 | 1                 | 0                 | 1                       | 1                      |
| 120                 | 1                | 0                 | 2                 | 0                 | 1                       | 1                      |
| 130                 | 1                | 0                 | 0                 | 1                 | 1                       | 1                      |
| 140                 | 1                | 1                 | 0                 | 1                 | 1                       | 1                      |
| 150                 | 1                | 0                 | 1                 | 1                 | 1                       | 1                      |
| 160                 | 1                | 1                 | 1                 | 1                 | 1                       | 1                      |
| 170                 | 1                | 0                 | 2                 | 1                 | 1                       | 1                      |
| 180                 | 1                | 0                 | 0                 | 2                 | 1                       | 1                      |
| 190                 | 1                | 1                 | 0                 | 2                 | 1                       | 1                      |
| 200                 | 1                | 0                 | 1                 | 2                 | 1                       | 1                      |
| 210                 | 1                | 1                 | 1                 | 2                 | 1                       | 1                      |
| 220                 | 1                | 0                 | 2                 | 2                 | 1                       | 1                      |
| 230                 | 1                | 0                 | 0                 | 3                 | 1                       | 1                      |
| 240                 | 1                | 1                 | 0                 | 3                 | 1                       | 1                      |
| 250                 | 1                | 0                 | 1                 | 3                 | 1                       | 1                      |
| 260                 | 1                | 1                 | 1                 | 3                 | 1                       | 1                      |
| 270                 | 1                | 0                 | 2                 | 3                 | 1                       | 1                      |
| 280                 | 1                | 0                 | 0                 | 4                 | 1                       | 1                      |

**PERFORMANCE:**

Swing Speed .....3.5 RPM Maximum

**HOISTING PERFORMANCE:**

| Hoisting Function         | Single Line Pull at Single Line Speed |
|---------------------------|---------------------------------------|
|                           | SLP (Pounds) at SLS (Feet Per Minute) |
| Main Hoist Drum:          |                                       |
| Low speed — bottom layer  | 45,000 lbs. at 81 FPM                 |
| Low speed — top layer     | 30,000 lbs. at 118 FPM                |
| High speed — bottom layer | 22,500 lbs. at 160 FPM                |
| High speed — top layer    | 15,000 lbs. at 233 FPM                |
| Auxiliary Hoist Drum:     |                                       |
| Low speed — bottom layer  | 45,000 lbs. at 81 FPM                 |
| Low speed — top layer     | 30,000 lbs. at 118 FPM                |
| High speed — bottom layer | 22,500 lbs. at 160 FPM                |
| High speed — top layer    | 15,000 lbs. at 233 FPM                |
| Auxiliary Third Drum:     |                                       |
| Low speed — bottom layer  | 37,300 lbs. at 97 FPM                 |
| Low speed — top layer     | 29,600 lbs. at 119 FPM                |
| High speed — bottom layer | 18,650 lbs. at 195 FPM                |
| High speed — top layer    | 14,800 lbs. at 236 FPM                |

**BOOMING PERFORMANCE:**

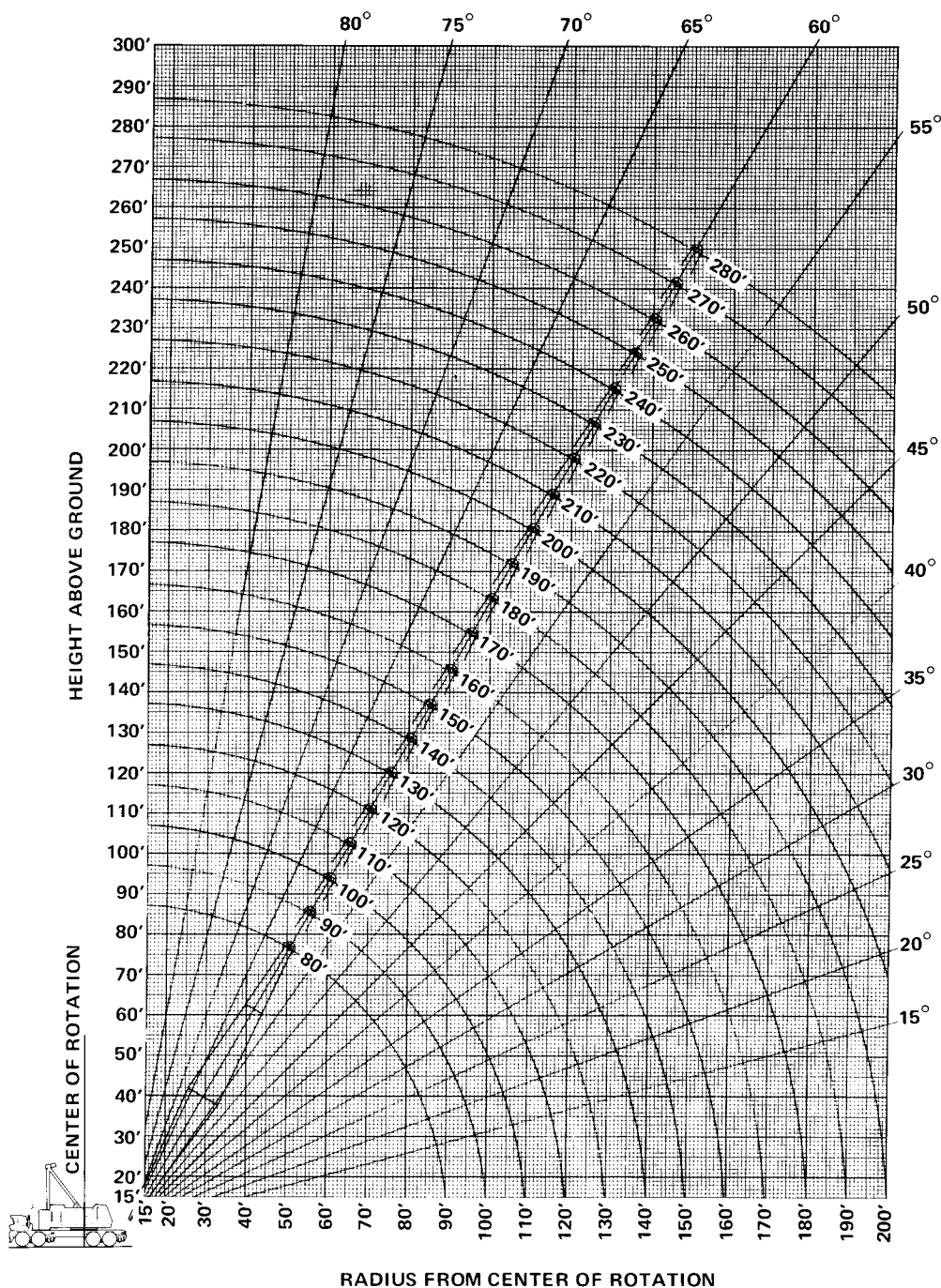
Time to raise 50 ft. boom from ground to minimum radius .....1.9 minutes  
Time to lower 50 foot boom from minimum radius to ground .....1.67 minutes

**NOTE:** In accordance with our established policy of constant product improvement and varying material conditions, specifications are subject to change without notice and without incurring responsibility for machines previously sold.



## AMERICAN MODEL 8470 TRUCK CRANE WORKING RANGES

BOOM  
ANGLE  
DIAGRAM



6JR8311

FORM NO. 8470-TR-2

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