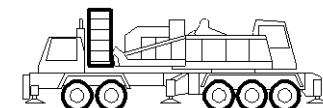


# Liftcrane Boom Capacities

**Boom No. 78T With Heavy Lift Top**  
**0 kg to 43 270 kg Crane Counterweight**  
**Without Front Bumper Counterweight**  
**Rating Straight Over Rear On Rubber - 0.4 kms/hr Travel**

Meets  
ANSI B30.5  
Requirements



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

Upper boom point capacity for liftcrane service with single part whip line is 13 380 kg or 26 760 kg with two part whip line. When boom butt mounted auxiliary drum is used, capacity with single part whip line is 9 070 kg or 18 140 kg with two part whip line. In all cases, upper boom point capacities cannot exceed those listed for main boom capacity.

Weight of jib, all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom and jib point sheaves, is considered part of main boom load. Boom is not to be lowered beyond radii where combined weights are greater than rated capacity. Where no capacity is shown, operation is not intended or approved.

**OPERATING CONDITIONS:** Machine to operate in a level position on a firm uniformly supporting surface. Refer to boom rigging **No. 192043**, Wire Rope Specification chart **No. 7973-A** and Operating Range Diagram chart **No. 7974-D**. Crane operator judgment must be used to allow for dynamic load effects of hoisting or lowering, travel, wind conditions, ground conditions, condition and inflation of tires (800 kPa minimum), as well as adverse operating conditions and physical machine depreciation.

Loads lifted may increase radius due to tire deflection. This increase must be compensated for by raising boom. Refer to operators manual for operating guidelines.

**MACHINE TRAVEL:** Machine to travel (0.4 kms/hr) on a firm, level and uniformly supporting surface and boom within boom angle range shown in capacity chart. Refer to Maximum

Allowable Travel Specification chart **No. 7976-A**, Maximum Allowable Traveling Weight chart **No. 7972-A** and Weight Distribution chart **No. 7975-A**.

**OPERATING RADIUS:** Operating radius is horizontal distance from axis of rotation to center of vertical hoist line or load block. Boom angle is angle between horizontal and centerline of boom butt and inserts, and is an indication of operating radius. In all cases, operating radius shall govern capacity.

**BOOM POINT ELEVATION:** Boom point elevation is vertical distance from ground level to centerline of boom point shaft.

**MACHINE EQUIPMENT:** Machine equipped with Manitowoc 10 x 6 carrier, 7 036 mm wheel base, 2 972 mm front axle track, 2 540 mm rear axle track, 385/95 R 24 tires, 2 438 mm front outriggers, 1 778 mm rear outriggers, two 305 mm boom hoist cylinders, 7.9m mast, two boom support straps, crane counterweight as specified and without front bumper counterweight.

**Note:** Travel not allowed with 43 270 kg crane counterweight without boom attached.

Swing over side on rubber not allowed with 12 430 kg thru 43 270 kg crane counterweight.

Swing over side on rubber with 0 kg or 4 720 kg crane counterweight is allowed with or without boom attached.

360 degree swing on rubber with 0 kg or 4 720 kg crane counterweight is allowed without boom attached.

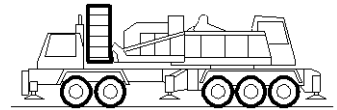
| Deduct From Capacities<br>When Jib Is Attached |             |
|------------------------------------------------|-------------|
| Jib Length                                     | Jib No. 134 |
| 9.1m                                           | 1 770 kg    |
| 12.2m                                          | 2 130 kg    |
| 15.2m                                          | 2 540 kg    |
| 18.3m                                          | 2 990 kg    |
| 21.3m                                          | 3 450 kg    |
| 24.4m                                          | 3 950 kg    |

| Upper Boom Point Deduct                                          |
|------------------------------------------------------------------|
| Deduct 450 kg from capacities when upper boom point is attached. |

| Auxiliary Drum Deduct                                                         |
|-------------------------------------------------------------------------------|
| Deduct 770 kg from capacities when boom butt is equipped with auxiliary drum. |

# Liftcrane Boom Capacities

**Boom No. 78T With Heavy Lift Top**
**0 kg to 43 270 kg Crane Counterweight**
**Without Front Bumper Counterweight**
**Rating Straight Over Rear On Rubber - 0.4 kms/hr Travel**

 Meets  
ANSI B30.5  
Requirements


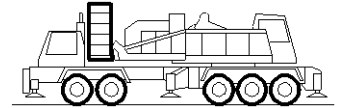
| Maximum Boom and Jib Lengths Lifted Unassisted On Outriggers                                                                                                                                                                                        |             |                                        |             |                                            |             |                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------|-------------|--------------------------------------------|-------------|-----------------------------------------|
| Over Rear of Outriggers                                                                                                                                                                                                                             |             | Over Side of Fully Extended Outriggers |             | Over Side of Partially Extended Outriggers |             | Over Side of Fully Retracted Outriggers |
| Boom Length                                                                                                                                                                                                                                         | Jib No. 134 | Boom Length                            | Jib No. 134 | Boom Length                                | Jib No. 134 | Boom Length                             |
| 43 270 kg Crane Counterweight + 11 340 kg Front Bumper Cwt.                                                                                                                                                                                         |             |                                        |             |                                            |             |                                         |
| (a) 82.3m                                                                                                                                                                                                                                           | —           | 67.1m                                  | —           | Not Allowed                                | Not Allowed |                                         |
| (b) 79.2m                                                                                                                                                                                                                                           | —           | 64.0m                                  | —           |                                            |             |                                         |
| 76.2m                                                                                                                                                                                                                                               | —           | 61.0m                                  | 9.1m        |                                            |             |                                         |
| 73.2m                                                                                                                                                                                                                                               | 9.1m        | 57.9m                                  | 18.3m       |                                            |             |                                         |
| 70.1m                                                                                                                                                                                                                                               | 15.2m       | 54.9m                                  | 24.4m       |                                            |             |                                         |
| 67.1m                                                                                                                                                                                                                                               | 24.4m       |                                        |             |                                            |             |                                         |
| 43 270 kg Crane Counterweight                                                                                                                                                                                                                       |             |                                        |             |                                            |             |                                         |
| (c) 73.2m                                                                                                                                                                                                                                           | —           | 67.1m                                  | —           | Not Allowed                                | Not Allowed |                                         |
| 70.1m                                                                                                                                                                                                                                               | —           | 64.0m                                  | —           |                                            |             |                                         |
| 67.1m                                                                                                                                                                                                                                               | —           | 61.0m                                  | 9.1m        |                                            |             |                                         |
| 64.0m                                                                                                                                                                                                                                               | 12.2m       | 57.9m                                  | 18.3m       |                                            |             |                                         |
| 61.0m                                                                                                                                                                                                                                               | 21.3m       | 54.9m                                  | 24.4m       |                                            |             |                                         |
| 57.9m                                                                                                                                                                                                                                               | 24.4m       |                                        |             |                                            |             |                                         |
| 35 560 kg Crane Counterweight                                                                                                                                                                                                                       |             |                                        |             |                                            |             |                                         |
| 67.1m                                                                                                                                                                                                                                               | —           | 61.0m                                  | —           | 54.9m                                      | —           | Not Allowed                             |
| 64.0m                                                                                                                                                                                                                                               | —           | 57.9m                                  | —           | 51.8m                                      | —           |                                         |
| 61.0m                                                                                                                                                                                                                                               | 9.1m        | 54.9m                                  | 15.2m       | 48.8m                                      | 12.2m       |                                         |
| 57.9m                                                                                                                                                                                                                                               | 18.3m       | 51.8m                                  | 21.3m       | 45.7m                                      | 21.3m       |                                         |
| 54.9m                                                                                                                                                                                                                                               | 24.4m       | 48.8m                                  | 24.4m       | 42.7m                                      | 24.4m       |                                         |
|                                                                                                                                                                                                                                                     |             |                                        |             |                                            |             |                                         |
| 27 850 kg Crane Counterweight                                                                                                                                                                                                                       |             |                                        |             |                                            |             |                                         |
| 61.0m                                                                                                                                                                                                                                               | —           | 54.9m                                  | —           | 48.8m                                      | —           | Not Allowed                             |
| 57.9m                                                                                                                                                                                                                                               | —           | 51.8m                                  | 9.1m        | 45.7m                                      | —           |                                         |
| 54.9m                                                                                                                                                                                                                                               | 12.2m       | 48.8m                                  | 15.2m       | 42.7m                                      | 15.2m       |                                         |
| 51.8m                                                                                                                                                                                                                                               | 21.3m       | 45.7m                                  | 21.3m       | 39.6m                                      | 24.4m       |                                         |
| 48.8m                                                                                                                                                                                                                                               | 24.4m       | 42.7m                                  | 24.4m       |                                            |             |                                         |
|                                                                                                                                                                                                                                                     |             |                                        |             |                                            |             |                                         |
| 20 140 kg Crane Counterweight                                                                                                                                                                                                                       |             |                                        |             |                                            |             |                                         |
| 54.9m                                                                                                                                                                                                                                               | —           | 48.8m                                  | —           | 42.7m                                      | —           | Not Allowed                             |
| 51.8m                                                                                                                                                                                                                                               | —           | 45.7m                                  | 9.1m        | 39.6m                                      | 9.1m        |                                         |
| 48.8m                                                                                                                                                                                                                                               | 12.2m       | 42.7m                                  | 18.3m       | 36.6m                                      | 18.3m       |                                         |
| 45.7m                                                                                                                                                                                                                                               | 21.3m       | 39.6m                                  | 24.4m       | 33.5m                                      | 24.4m       |                                         |
| 42.7m                                                                                                                                                                                                                                               | 24.4m       |                                        |             |                                            |             |                                         |
|                                                                                                                                                                                                                                                     |             |                                        |             |                                            |             |                                         |
| Load block, hook and weight ball on ground at start. (a) Upper boom point and auxiliary drum cannot be used on 82.3m boom. (b) Upper boom point cannot be used on 79.2m boom over rear. (c) Upper boom point cannot be used on 73.2 boom over rear. |             |                                        |             |                                            |             |                                         |

| Maximum Boom<br>and Jib Lengths<br>Lifted Unassisted On Rubber |                |                |
|----------------------------------------------------------------|----------------|----------------|
| Over Rear                                                      |                | Over Side      |
| Boom<br>Length                                                 | Jib<br>No. 134 | Boom<br>Length |
| 43 270 kg Crane Counterweight<br>+ 11 340 kg Front Bumper Cwt. |                |                |
| Not<br>Allowed                                                 |                |                |
| 43 270 kg Crane Counterweight                                  |                |                |
| 45.7m                                                          | —              | Not<br>Allowed |
| 42.7m                                                          | —              |                |
| 39.6m                                                          | 12.2m          |                |
| 36.6m                                                          | 21.3m          |                |
| 33.5m                                                          | 24.4m          |                |
| 35 560 kg Crane Counterweight                                  |                |                |
| 39.6m                                                          | —              | Not<br>Allowed |
| 36.6m                                                          | 9.1m           |                |
| 33.5m                                                          | 15.2m          |                |
| 30.5m                                                          | 24.4m          |                |
| 27 850 kg Crane Counterweight                                  |                |                |
| 36.6m                                                          | —              | Not<br>Allowed |
| 33.5m                                                          | —              |                |
| 30.5m                                                          | 12.2m          |                |
| 20 140 kg Crane Counterweight                                  |                |                |
| 30.5m                                                          | —              | Not<br>Allowed |
| Load block, hook and weight<br>ball on ground at start.        |                |                |

# Liftcrane Boom Capacities

**Boom No. 78T With Heavy Lift Top**  
**0 kg to 43 270 kg Crane Counterweight**  
**Without Front Bumper Counterweight**  
**Rating Straight Over Rear On Rubber - 0.4 kms/hr Travel**

Meets  
ANSI B30.5  
Requirements



| Maximum Boom and Jib Lengths Lifted Unassisted On Outriggers |             |                                        |             |                                            |             |                                         |
|--------------------------------------------------------------|-------------|----------------------------------------|-------------|--------------------------------------------|-------------|-----------------------------------------|
| Over Rear of Outriggers                                      |             | Over Side of Fully Extended Outriggers |             | Over Side of Partially Extended Outriggers |             | Over Side of Fully Retracted Outriggers |
| Boom Length                                                  | Jib No. 134 | Boom Length                            | Jib No. 134 | Boom Length                                | Jib No. 134 | Boom Length                             |
| 12 430 kg Crane Counterweight                                |             |                                        |             |                                            |             |                                         |
| 48.8m                                                        | —           | 42.7m                                  | —           | 36.6m                                      | —           | 21.3m                                   |
| 45.7m                                                        | —           | 39.6m                                  | 9.1m        | 33.5m                                      | —           | —                                       |
| 42.7m                                                        | 15.2m       | 36.6m                                  | 18.3m       | 30.5m                                      | 15.2m       | —                                       |
| 39.6m                                                        | 24.4m       | 33.5m                                  | 24.4m       | —                                          | —           | —                                       |
| 4 720 kg Crane Counterweight                                 |             |                                        |             |                                            |             |                                         |
| 42.7m                                                        | —           | 36.6m                                  | —           | 30.5m                                      | —           | 13m                                     |
| 39.6m                                                        | —           | 33.5m                                  | —           | —                                          | —           | —                                       |
| 36.6m                                                        | 15.2m       | 30.5m                                  | 15.2m       | —                                          | —           | —                                       |
| 33.5m                                                        | 21.3m       | —                                      | —           | —                                          | —           | —                                       |
| 30.5m                                                        | 24.4m       | —                                      | —           | —                                          | —           | —                                       |
| 0 kg Crane Counterweight                                     |             |                                        |             |                                            |             |                                         |
| 39.6m                                                        | —           | 30.5m                                  | —           | 24.4m                                      | —           | —                                       |
| 36.6m                                                        | —           | —                                      | —           | —                                          | —           | Not Allowed                             |
| 33.5m                                                        | 12.2m       | —                                      | —           | —                                          | —           | —                                       |
| 30.5m                                                        | 18.3m       | —                                      | —           | —                                          | —           | —                                       |
| Load block, hook and weight ball on ground at start.         |             |                                        |             |                                            |             |                                         |

| Maximum Boom and Jib Lengths Lifted Unassisted On Rubber |             |             |
|----------------------------------------------------------|-------------|-------------|
| Over Rear                                                |             | Over Side   |
| Boom Length                                              | Jib No. 134 | Boom Length |
| 12 430 kg Crane Counterweight                            |             |             |
| 24.4m                                                    | —           | Not Allowed |
| 4 720 kg Crane Counterweight                             |             |             |
| 18.3m                                                    | —           | 13m         |
| 0 kg Crane Counterweight                                 |             |             |
| 13m                                                      | —           | Not Allowed |
| Load block, hook and weight ball on ground at start.     |             |             |

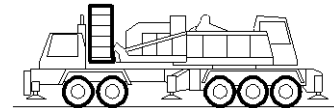
Jib may remain attached as shown in raising table for raising over rear on rubber but must not be used to pick loads on rubber.

Refer to chart **No. 8094-BM** for over side sector on rubber boom capacities, chart **No. 8063-AM** for fully extended outrigger boom capacities, chart **No. 8095-AM** for partially extended outrigger boom capacities and chart **No. 8096-AM** for fully retracted outrigger boom capacities.

# Liftcrane Boom Capacities

Boom No. 78T With Heavy Lift Top  
0 kg to 43 270 kg Crane Counterweight  
Without Front Bumper Counterweight  
Rating Straight Over Rear On Rubber - 0.4 kms/hr Travel

Meets  
ANSI B30.5  
Requirements



13.0m (42.5 Ft.)  
Boom

| Oper. Rad. m | Boom Ang. Deg. | Boom Point Elev. m | 43 270 kg Counterweight<br>Boom Capacity Kilograms | 35 560 kg Counterweight<br>Boom Capacity Kilograms | 27 850 kg Counterweight<br>Boom Capacity Kilograms | 20 140 kg Counterweight<br>Boom Capacity Kilograms | 12 430 kg Counterweight<br>Boom Capacity Kilograms | 4 720 kg Counterweight<br>Boom Capacity Kilograms | 0 kg Counterweight<br>Boom Capacity Kilograms | Oper. Rad. m |
|--------------|----------------|--------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|---------------------------------------------------|-----------------------------------------------|--------------|
| 3.7          | 81.6           | 15.3               | 76 200 *                                           | 76 200 *                                           | 76 200 *                                           | 64 400                                             | 51 800                                             | 39 300                                            | 31 600                                        | 3.7          |
| 4.0          | 80.1           | 15.2               | 73 500 *                                           | 73 500 *                                           | 68 400                                             | 57 100                                             | 45 800                                             | 34 500                                            | 27 700                                        | 4.0          |
| 4.5          | 77.8           | 15.1               | 69 800 *                                           | 68 200                                             | 58 500                                             | 48 800                                             | 39 000                                             | 29 200                                            | 23 300                                        | 4.5          |
| 5.0          | 75.4           | 15.0               | 66 400                                             | 59 600                                             | 51 000                                             | 42 400                                             | 33 700                                             | 25 200                                            | 19 900                                        | 5.0          |
| 5.5          | 73.1           | 14.8               | 60 500                                             | 52 800                                             | 45 000                                             | 37 300                                             | 29 600                                             | 21 900                                            | 17 200                                        | 5.5          |
| 6.0          | 70.7           | 14.6               | 54 200                                             | 47 200                                             | 40 200                                             | 33 300                                             | 26 200                                             | 19 300                                            | 15 000                                        | 6.0          |
| 7.0          | 65.7           | 14.1               | 44 600                                             | 38 700                                             | 32 900                                             | 27 000                                             | 21 100                                             | 15 300                                            | 11 700                                        | 7.0          |
| 8.0          | 60.6           | 13.6               | 37 600                                             | 32 600                                             | 27 500                                             | 22 500                                             | 17 400                                             | 12 400                                            | 9 300                                         | 8.0          |
| 9.0          | 55.1           | 12.8               | 32 400                                             | 27 900                                             | 23 400                                             | 19 000                                             | 14 500                                             | 10 100                                            | 7 400                                         | 9.0          |
| 10.0         | 49.1           | 12.0               | 28 200                                             | 24 200                                             | 20 200                                             | 16 200                                             | 12 300                                             | 8 300                                             | 5 900                                         | 10.0         |
| 11.0         | 42.5           | 10.9               | 24 800                                             | 21 200                                             | 17 600                                             | 14 000                                             | 10 500                                             | 6 900                                             | 4 700                                         | 11.0         |
| 12.0         | 34.8           | 9.5                | 22 000                                             | 18 700                                             | 15 400                                             | 12 200                                             | 8 900                                              | 5 700                                             | 3 700                                         | 12.0         |

# Liftcrane Boom Capacities

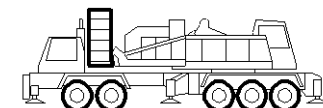
**Boom No. 78T With Heavy Lift Top**

**0 kg to 43 270 kg Crane Counterweight**

**Without Front Bumper Counterweight**

**Rating Straight Over Rear On Rubber - 0.4 kms/hr Travel**

Meets  
ANSI B30.5  
Requirements



**18.3m (60 Ft.)**

**Boom**



| Oper.<br>Rad.<br>m | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>m | 43 270 kg<br>Counterweight    | 35 560 kg<br>Counterweight    | 27 850 kg<br>Counterweight    | 20 140 kg<br>Counterweight    | 12 430 kg<br>Counterweight    | 4 720 kg<br>Counterweight     | Oper.<br>Rad.<br>m |
|--------------------|----------------------|-----------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------|
|                    |                      |                             | Boom<br>Capacity<br>Kilograms | Boom<br>Capacity<br>Kilograms | Boom<br>Capacity<br>Kilograms | Boom<br>Capacity<br>Kilograms | Boom<br>Capacity<br>Kilograms | Boom<br>Capacity<br>Kilograms |                    |
| 4.3                | 82.2                 | 20.8                        | 69 400 *                      | 69 400 *                      | 62 700                        | 52 300                        | 41 900                        | 31 500                        | 4.3                |
| 4.5                | 81.5                 | 20.7                        | 67 800 *                      | 67 500                        | 58 600                        | 48 800                        | 39 000                        | 29 200                        | 4.5                |
| 5.0                | 79.9                 | 20.6                        | 64 600 *                      | 59 600                        | 51 000                        | 42 300                        | 33 700                        | 25 100                        | 5.0                |
| 5.5                | 78.3                 | 20.5                        | 60 500                        | 52 700                        | 45 000                        | 37 300                        | 29 600                        | 21 900                        | 5.5                |
| 6.0                | 76.7                 | 20.4                        | 54 200                        | 47 200                        | 40 200                        | 33 200                        | 26 200                        | 19 300                        | 6.0                |
| 7.0                | 73.4                 | 20.1                        | 44 600                        | 38 700                        | 32 800                        | 27 000                        | 21 100                        | 15 200                        | 7.0                |
| 8.0                | 70.0                 | 19.7                        | 37 600                        | 32 600                        | 27 500                        | 22 500                        | 17 400                        | 12 400                        | 8.0                |
| 9.0                | 66.6                 | 19.3                        | 32 400                        | 27 900                        | 23 500                        | 19 000                        | 14 600                        | 10 200                        | 9.0                |
| 10.0               | 63.1                 | 18.7                        | 28 200                        | 24 300                        | 20 300                        | 16 400                        | 12 400                        | 8 400                         | 10.0               |
| 11.0               | 59.4                 | 18.1                        | 24 900                        | 21 300                        | 17 700                        | 14 100                        | 10 600                        | 7 000                         | 11.0               |
| 12.0               | 55.6                 | 17.4                        | 22 100                        | 18 900                        | 15 600                        | 12 400                        | 9 100                         | 5 800                         | 12.0               |
| 14.0               | 47.3                 | 15.7                        | 17 800                        | 15 100                        | 12 300                        | 9 500                         | 6 800                         | 4 000                         | 14.0               |
| 16.0               | 37.6                 | 13.4                        | 14 600                        | 12 200                        | 9 800                         | 7 400                         | 5 000                         | 2 600                         | 16.0               |
| 18.0               | 24.6                 | 9.7                         | 12 100                        | 10 000                        | 7 900                         | 5 700                         | 3 600                         | 1 500                         | 18.0               |

# Liftcrane Boom Capacities

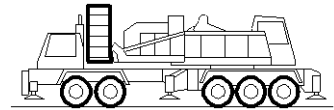
Boom No. 78T With Heavy Lift Top  
0 kg to 43 270 kg Crane Counterweight

Without Front Bumper Counterweight

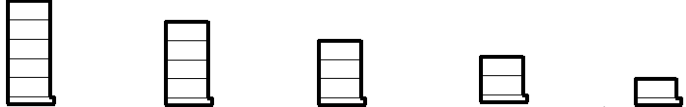
Rating Straight Over Rear On Rubber - 0.4 kms/hr Travel

Meets  
ANSI B30.5  
Requirements

**777T**



21.3m (70 Ft.)  
Boom



| Oper.<br>Rad.<br>m | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>m | 43 270 kg<br>Counterweight    | 35 560 kg<br>Counterweight    | 27 850 kg<br>Counterweight    | 20 140 kg<br>Counterweight    | 12 430 kg<br>Counterweight    | Oper.<br>Rad.<br>m |
|--------------------|----------------------|-----------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------|
|                    |                      |                             | Boom<br>Capacity<br>Kilograms | Boom<br>Capacity<br>Kilograms | Boom<br>Capacity<br>Kilograms | Boom<br>Capacity<br>Kilograms | Boom<br>Capacity<br>Kilograms |                    |
| 4.6                | 82.5                 | 23.8                        | 67 100 *                      | 67 100 *                      | 57 800                        | 48 200                        | 38 600                        | 4.6                |
| 5.0                | 81.4                 | 23.7                        | 64 400 *                      | 60 100                        | 51 400                        | 42 800                        | 34 200                        | 5.0                |
| 5.5                | 80.0                 | 23.6                        | 61 000                        | 53 200                        | 45 500                        | 37 800                        | 30 100                        | 5.5                |
| 6.0                | 78.6                 | 23.5                        | 54 600                        | 47 700                        | 40 600                        | 33 700                        | 26 700                        | 6.0                |
| 7.0                | 75.8                 | 23.3                        | 45 000                        | 39 200                        | 33 300                        | 27 400                        | 21 600                        | 7.0                |
| 8.0                | 73.0                 | 23.0                        | 38 100                        | 33 100                        | 28 000                        | 22 900                        | 17 900                        | 8.0                |
| 9.0                | 70.2                 | 22.6                        | 32 900                        | 28 400                        | 23 900                        | 19 500                        | 15 100                        | 9.0                |
| 10.0               | 67.2                 | 22.1                        | 28 700                        | 24 800                        | 20 800                        | 16 800                        | 12 900                        | 10.0               |
| 11.0               | 64.2                 | 21.7                        | 25 400                        | 21 800                        | 18 200                        | 14 600                        | 11 100                        | 11.0               |
| 12.0               | 61.2                 | 21.1                        | 22 600                        | 19 400                        | 16 100                        | 12 900                        | 9 600                         | 12.0               |
| 14.0               | 54.7                 | 19.7                        | 18 400                        | 15 600                        | 12 800                        | 10 100                        | 7 300                         | 14.0               |
| 16.0               | 47.6                 | 18.0                        | 15 200                        | 12 800                        | 10 400                        | 8 000                         | 5 600                         | 16.0               |
| 18.0               | 39.5                 | 15.8                        | 12 700                        | 10 600                        | 8 500                         | 6 400                         | 4 200                         | 18.0               |
| 20.0               | 29.5                 | 12.6                        | 10 800                        | 8 900                         | 6 900                         | 5 000                         | 3 100                         | 20.0               |

# Liftcrane Boom Capacities

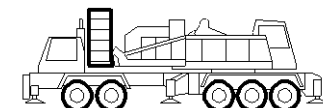
**Boom No. 78T With Heavy Lift Top**

**0 kg to 43 270 kg Crane Counterweight**

**Without Front Bumper Counterweight**

**Rating Straight Over Rear On Rubber - 0.4 kms/hr Travel**

Meets  
ANSI B30.5  
Requirements



**24.4m (80 Ft.)**

**Boom**



| Oper.<br>Rad.<br>m | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>m | 43 270 kg<br>Counterweight    | 35 560 kg<br>Counterweight    | 27 850 kg<br>Counterweight    | 20 140 kg<br>Counterweight    | 12 430 kg<br>Counterweight    | Oper.<br>Rad.<br>m |
|--------------------|----------------------|-----------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------|
|                    |                      |                             | Boom<br>Capacity<br>Kilograms | Boom<br>Capacity<br>Kilograms | Boom<br>Capacity<br>Kilograms | Boom<br>Capacity<br>Kilograms | Boom<br>Capacity<br>Kilograms |                    |
| 4.9                | 82.7                 | 26.9                        | 64 500 *                      | 62 100                        | 53 200                        | 44 300                        | 35 500                        | 4.9                |
| 5.0                | 82.5                 | 26.8                        | 63 800 *                      | 60 200                        | 51 600                        | 42 900                        | 34 300                        | 5.0                |
| 5.5                | 81.3                 | 26.7                        | 60 800                        | 53 300                        | 45 500                        | 37 800                        | 30 100                        | 5.5                |
| 6.0                | 80.1                 | 26.6                        | 54 700                        | 47 700                        | 40 700                        | 33 700                        | 26 700                        | 6.0                |
| 7.0                | 77.7                 | 26.4                        | 45 100                        | 39 200                        | 33 400                        | 27 500                        | 21 600                        | 7.0                |
| 8.0                | 75.2                 | 26.1                        | 38 100                        | 33 100                        | 28 000                        | 23 000                        | 17 900                        | 8.0                |
| 9.0                | 72.8                 | 25.8                        | 32 900                        | 28 400                        | 24 000                        | 19 600                        | 15 100                        | 9.0                |
| 10.0               | 70.2                 | 25.5                        | 28 800                        | 24 800                        | 20 800                        | 16 800                        | 12 900                        | 10.0               |
| 11.0               | 67.7                 | 25.0                        | 25 400                        | 21 800                        | 18 300                        | 14 700                        | 11 100                        | 11.0               |
| 12.0               | 65.1                 | 24.6                        | 22 700                        | 19 400                        | 16 100                        | 12 900                        | 9 600                         | 12.0               |
| 14.0               | 59.7                 | 23.5                        | 18 400                        | 15 600                        | 12 900                        | 10 100                        | 7 300                         | 14.0               |
| 16.0               | 54.0                 | 22.0                        | 15 300                        | 12 900                        | 10 400                        | 8 000                         | 5 600                         | 16.0               |
| 18.0               | 47.8                 | 20.3                        | 12 800                        | 10 700                        | 8 600                         | 6 400                         | 4 300                         | 18.0               |
| 20.0               | 40.8                 | 18.1                        | 10 800                        | 9 000                         | 7 000                         | 5 100                         | 3 200                         | 20.0               |
| 22.0               | 32.6                 | 15.3                        | 9 300                         | 7 500                         | 5 800                         | 4 100                         | 2 300                         | 22.0               |
| 24.0               | 21.7                 | 11.1                        | 7 900                         | 6 300                         | 4 700                         | 3 200                         | 1 500                         | 24.0               |

# Liftcrane Boom Capacities

Boom No. 78T With Heavy Lift Top

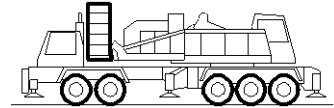
0 kg to 43 270 kg Crane Counterweight

Without Front Bumper Counterweight

Rating Straight Over Rear On Rubber - 0.4 kms/hr Travel

Meets  
ANSI B30.5  
Requirements

**777T**



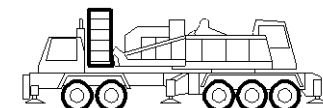
**27.4m (90 Ft.)  
Boom**



| Oper.<br>Rad.<br>m | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>m | 43 270 kg<br>Counterweight    | 35 560 kg<br>Counterweight    | 27 850 kg<br>Counterweight    | 20 140 kg<br>Counterweight    | Oper.<br>Rad.<br>m |
|--------------------|----------------------|-----------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------|
|                    |                      |                             | Boom<br>Capacity<br>Kilograms | Boom<br>Capacity<br>Kilograms | Boom<br>Capacity<br>Kilograms | Boom<br>Capacity<br>Kilograms |                    |
| 5.2                | 82.9                 | 29.9                        | 62 000 *                      | 57 500                        | 49 200                        | 41 000                        | 5.2                |
| 5.5                | 82.2                 | 29.9                        | 60 300                        | 53 300                        | 45 600                        | 37 900                        | 5.5                |
| 6.0                | 81.2                 | 29.8                        | 54 800                        | 47 700                        | 40 700                        | 33 800                        | 6.0                |
| 7.0                | 79.1                 | 29.6                        | 45 100                        | 39 200                        | 33 400                        | 27 500                        | 7.0                |
| 8.0                | 76.9                 | 29.3                        | 38 200                        | 33 100                        | 28 000                        | 23 000                        | 8.0                |
| 9.0                | 74.7                 | 29.0                        | 32 900                        | 28 500                        | 24 000                        | 19 600                        | 9.0                |
| 10.0               | 72.5                 | 28.7                        | 28 800                        | 24 800                        | 20 800                        | 16 800                        | 10.0               |
| 11.0               | 70.3                 | 28.3                        | 25 400                        | 21 800                        | 18 300                        | 14 700                        | 11.0               |
| 12.0               | 68.1                 | 27.9                        | 22 700                        | 19 400                        | 16 200                        | 12 900                        | 12.0               |
| 14.0               | 63.4                 | 27.0                        | 18 400                        | 15 700                        | 12 900                        | 10 100                        | 14.0               |
| 16.0               | 58.6                 | 25.8                        | 15 300                        | 12 800                        | 10 400                        | 8 100                         | 16.0               |
| 18.0               | 53.4                 | 24.4                        | 12 900                        | 10 700                        | 8 600                         | 6 400                         | 18.0               |
| 20.0               | 47.9                 | 22.6                        | 10 900                        | 9 000                         | 7 100                         | 5 200                         | 20.0               |
| 22.0               | 41.8                 | 20.5                        | 9 300                         | 7 600                         | 5 900                         | 4 200                         | 22.0               |
| 24.0               | 34.8                 | 17.8                        | 8 000                         | 6 400                         | 4 800                         | 3 300                         | 24.0               |
| 26.0               | 26.2                 | 14.2                        | 6 800                         | 5 400                         | 3 900                         | 2 500                         | 26.0               |

# Liftcrane Boom Capacities

**Boom No. 78T With Heavy Lift Top**
**0 kg to 43 270 kg Crane Counterweight**
**Without Front Bumper Counterweight**
**Rating Straight Over Rear On Rubber - 0.4 kms/hr Travel**

 Meets  
ANSI B30.5  
Requirements

**30.5m (100 Ft.)**
**Boom**


| Oper.<br>Rad.<br>m | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>m | 43 270 kg<br>Counterweight    | 35 560 kg<br>Counterweight    | 27 850 kg<br>Counterweight    | 20 140 kg<br>Counterweight    | Oper.<br>Rad.<br>m |
|--------------------|----------------------|-----------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------|
|                    |                      |                             | Boom<br>Capacity<br>Kilograms | Boom<br>Capacity<br>Kilograms | Boom<br>Capacity<br>Kilograms | Boom<br>Capacity<br>Kilograms |                    |
| 5.5                | 83.0                 | 32.9                        | 59 600 *                      | 53 400                        | 45 700                        | 38 000                        | 5.5                |
| 6.0                | 82.1                 | 32.8                        | 54 800                        | 47 700                        | 40 700                        | 33 700                        | 6.0                |
| 7.0                | 80.2                 | 32.7                        | 45 100                        | 39 200                        | 33 300                        | 27 500                        | 7.0                |
| 8.0                | 78.2                 | 32.5                        | 38 100                        | 33 100                        | 28 000                        | 22 900                        | 8.0                |
| 9.0                | 76.3                 | 32.2                        | 32 800                        | 28 400                        | 23 900                        | 19 500                        | 9.0                |
| 10.0               | 74.3                 | 31.9                        | 28 700                        | 24 700                        | 20 800                        | 16 800                        | 10.0               |
| 11.0               | 72.4                 | 31.6                        | 25 400                        | 21 800                        | 18 200                        | 14 600                        | 11.0               |
| 12.0               | 70.4                 | 31.2                        | 22 600                        | 19 300                        | 16 100                        | 12 800                        | 12.0               |
| 14.0               | 66.3                 | 30.4                        | 18 300                        | 15 600                        | 12 800                        | 10 000                        | 14.0               |
| 16.0               | 62.1                 | 29.4                        | 15 200                        | 12 800                        | 10 400                        | 8 000                         | 16.0               |
| 18.0               | 57.6                 | 28.1                        | 12 800                        | 10 600                        | 8 500                         | 6 400                         | 18.0               |
| 20.0               | 53.0                 | 26.7                        | 10 900                        | 9 000                         | 7 000                         | 5 100                         | 20.0               |
| 22.0               | 48.0                 | 24.9                        | 9 300                         | 7 500                         | 5 800                         | 4 100                         | 22.0               |
| 24.0               | 42.6                 | 22.9                        | 8 000                         | 6 400                         | 4 800                         | 3 200                         | 24.0               |
| 26.0               | 36.5                 | 20.3                        | 6 800                         | 5 400                         | 4 000                         | 2 500                         | 26.0               |
| 28.0               | 29.3                 | 17.0                        | 5 900                         | 4 500                         | 3 200                         | 1 800                         | 28.0               |
| 30.0               | 19.8                 | 12.4                        | 5 000                         | 3 800                         | 2 500                         | 1 200                         | 30.0               |

# Liftcrane Boom Capacities

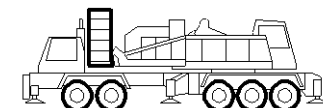
**Boom No. 78T With Heavy Lift Top**

**0 kg to 43 270 kg Crane Counterweight**

**Without Front Bumper Counterweight**

**Rating Straight Over Rear On Rubber - 0.4 kms/hr Travel**

Meets  
ANSI B30.5  
Requirements



**33.5m (110 Ft.)**

**Boom**



| Oper.<br>Rad.<br>m | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>m | 43 270 kg<br>Counterweight    | 35 560 kg<br>Counterweight    | 27 850 kg<br>Counterweight    | Oper.<br>Rad.<br>m |
|--------------------|----------------------|-----------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------|
|                    |                      |                             | Boom<br>Capacity<br>Kilograms | Boom<br>Capacity<br>Kilograms | Boom<br>Capacity<br>Kilograms |                    |
| 6.1                | 82.6                 | 35.9                        | 53 600                        | 46 700                        | 39 900                        | 6.1                |
| 7.0                | 81.1                 | 35.8                        | 45 000                        | 39 200                        | 33 300                        | 7.0                |
| 8.0                | 79.3                 | 35.6                        | 38 100                        | 33 000                        | 27 900                        | 8.0                |
| 9.0                | 77.6                 | 35.3                        | 32 800                        | 28 300                        | 23 900                        | 9.0                |
| 10.0               | 75.8                 | 35.1                        | 28 600                        | 24 700                        | 20 700                        | 10.0               |
| 11.0               | 74.0                 | 34.8                        | 25 300                        | 21 700                        | 18 200                        | 11.0               |
| 12.0               | 72.2                 | 34.5                        | 22 600                        | 19 300                        | 16 000                        | 12.0               |
| 14.0               | 68.6                 | 33.7                        | 18 300                        | 15 500                        | 12 800                        | 14.0               |
| 16.0               | 64.8                 | 32.8                        | 15 200                        | 12 800                        | 10 300                        | 16.0               |
| 18.0               | 60.9                 | 31.7                        | 12 700                        | 10 600                        | 8 500                         | 18.0               |
| 20.0               | 56.9                 | 30.4                        | 10 800                        | 8 900                         | 7 000                         | 20.0               |
| 22.0               | 52.6                 | 29.0                        | 9 300                         | 7 500                         | 5 800                         | 22.0               |
| 24.0               | 48.1                 | 27.2                        | 7 900                         | 6 400                         | 4 800                         | 24.0               |
| 26.0               | 43.2                 | 25.2                        | 6 800                         | 5 400                         | 3 900                         | 26.0               |
| 28.0               | 37.8                 | 22.7                        | 5 900                         | 4 500                         | 3 200                         | 28.0               |
| 30.0               | 31.6                 | 19.7                        | 5 000                         | 3 800                         | 2 500                         | 30.0               |
| 32.0               | 24.0                 | 15.7                        | 4 300                         | 3 100                         | 1 900                         | 32.0               |

# Liftcrane Boom Capacities

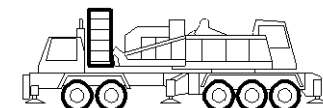
**Boom No. 78T With Heavy Lift Top**

**0 kg to 43 270 kg Crane Counterweight**

**Without Front Bumper Counterweight**

**Rating Straight Over Rear On Rubber - 0.4 kms/hr Travel**

Meets  
ANSI B30.5  
Requirements



**36.6m (120 Ft.)**

**Boom**



| Oper.<br>Rad.<br>m | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>m | 43 270 kg<br>Counterweight    | 35 560 kg<br>Counterweight    | 27 850 kg<br>Counterweight    | Oper.<br>Rad.<br>m |
|--------------------|----------------------|-----------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------|
|                    |                      |                             | Boom<br>Capacity<br>Kilograms | Boom<br>Capacity<br>Kilograms | Boom<br>Capacity<br>Kilograms |                    |
| 6.7                | 82.3                 | 38.9                        | 47 600                        | 41 500                        | 35 300                        | 6.7                |
| 7.0                | 81.8                 | 38.9                        | 45 300                        | 39 400                        | 33 500                        | 7.0                |
| 8.0                | 80.2                 | 38.7                        | 38 100                        | 33 100                        | 28 000                        | 8.0                |
| 9.0                | 78.6                 | 38.5                        | 32 900                        | 28 400                        | 24 000                        | 9.0                |
| 10.0               | 77.0                 | 38.2                        | 28 700                        | 24 800                        | 20 800                        | 10.0               |
| 11.0               | 75.4                 | 38.0                        | 25 400                        | 21 800                        | 18 200                        | 11.0               |
| 12.0               | 73.8                 | 37.7                        | 22 600                        | 19 400                        | 16 100                        | 12.0               |
| 14.0               | 70.5                 | 37.0                        | 18 400                        | 15 600                        | 12 800                        | 14.0               |
| 16.0               | 67.1                 | 36.2                        | 15 200                        | 12 800                        | 10 400                        | 16.0               |
| 18.0               | 63.6                 | 35.2                        | 12 800                        | 10 700                        | 8 600                         | 18.0               |
| 20.0               | 60.0                 | 34.1                        | 10 900                        | 9 000                         | 7 100                         | 20.0               |
| 22.0               | 56.2                 | 32.8                        | 9 300                         | 7 600                         | 5 900                         | 22.0               |
| 24.0               | 52.3                 | 31.3                        | 8 000                         | 6 400                         | 4 900                         | 24.0               |
| 26.0               | 48.2                 | 29.5                        | 6 900                         | 5 500                         | 4 000                         | 26.0               |
| 28.0               | 43.7                 | 27.5                        | 6 000                         | 4 700                         | 3 300                         | 28.0               |
| 30.0               | 38.9                 | 25.1                        | 5 200                         | 3 900                         | 2 700                         | 30.0               |
| 32.0               | 33.4                 | 22.3                        | 4 400                         | 3 300                         | 2 100                         | 32.0               |
| 34.0               | 27.0                 | 18.7                        | 3 800                         | 2 700                         | 1 600                         | 34.0               |
| 36.0               | 18.4                 | 13.6                        | 3 200                         | 2 100                         | 1 100                         | 36.0               |

# Liftcrane Boom Capacities

Boom No. 78T With Heavy Lift Top

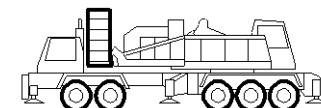
0 kg to 43 270 kg Crane Counterweight

Without Front Bumper Counterweight

Rating Straight Over Rear On Rubber - 0.4 kms/hr Travel

Meets  
ANSI B30.5  
Requirements

**777T**



**39.6m (130 Ft.)**

**Boom**



| Oper.<br>Rad.<br>m | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>m | 43 270 kg<br>Counterweight    | 35 560 kg<br>Counterweight    |
|--------------------|----------------------|-----------------------------|-------------------------------|-------------------------------|
|                    |                      |                             | Boom<br>Capacity<br>Kilograms | Boom<br>Capacity<br>Kilograms |
| 6.7                | 82.9                 | 42.0                        | 47 500                        | 41 400                        |
| 7.0                | 82.5                 | 42.0                        | 45 100                        | 39 300                        |
| 8.0                | 81.0                 | 41.8                        | 38 000                        | 33 000                        |
| 9.0                | 79.5                 | 41.6                        | 32 800                        | 28 300                        |
| 10.0               | 78.0                 | 41.4                        | 28 600                        | 24 700                        |
| 11.0               | 76.5                 | 41.1                        | 25 300                        | 21 700                        |
| 12.0               | 75.1                 | 40.9                        | 22 500                        | 19 200                        |
| 14.0               | 72.0                 | 40.2                        | 18 200                        | 15 500                        |
| 16.0               | 68.9                 | 39.5                        | 15 100                        | 12 700                        |
| 18.0               | 65.8                 | 38.6                        | 12 700                        | 10 600                        |
| 20.0               | 62.5                 | 37.6                        | 10 800                        | 8 900                         |
| 22.0               | 59.2                 | 36.4                        | 9 200                         | 7 500                         |
| 24.0               | 55.7                 | 35.1                        | 7 900                         | 6 300                         |
| 26.0               | 52.1                 | 33.6                        | 6 800                         | 5 400                         |
| 28.0               | 48.3                 | 31.8                        | 5 900                         | 4 500                         |
| 30.0               | 44.2                 | 29.9                        | 5 000                         | 3 800                         |
| 32.0               | 39.8                 | 27.5                        | 4 400                         | 3 200                         |
| 34.0               | 34.9                 | 24.8                        | 3 700                         | 2 600                         |
| 36.0               | 29.2                 | 21.5                        | 3 100                         | 2 100                         |
| 38.0               | 22.3                 | 17.1                        | 2 600                         | 1 600                         |

# Liftcrane Boom Capacities

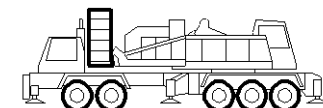
**Boom No. 78T With Heavy Lift Top**

**0 kg to 43 270 kg Crane Counterweight**

**Without Front Bumper Counterweight**

**Rating Straight Over Rear On Rubber - 0.4 kms/hr Travel**

Meets  
ANSI B30.5  
Requirements



**42.7m (140 Ft.)**

**Boom**



| Oper.<br>Rad.<br>m | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>m | 43 270 kg<br>Counterweight    |
|--------------------|----------------------|-----------------------------|-------------------------------|
|                    |                      |                             | Boom<br>Capacity<br>Kilograms |
| 7.3                | 82.6                 | 45.0                        | 42 500                        |
| 8.0                | 81.6                 | 44.9                        | 38 000                        |
| 9.0                | 80.3                 | 44.7                        | 32 600                        |
| 10.0               | 78.9                 | 44.5                        | 28 500                        |
| 11.0               | 77.5                 | 44.3                        | 25 100                        |
| 12.0               | 76.1                 | 44.0                        | 22 400                        |
| 14.0               | 73.3                 | 43.4                        | 18 100                        |
| 16.0               | 70.5                 | 42.7                        | 15 000                        |
| 18.0               | 67.6                 | 41.9                        | 12 600                        |
| 20.0               | 64.7                 | 41.0                        | 10 600                        |
| 22.0               | 61.6                 | 40.0                        | 9 100                         |
| 24.0               | 58.5                 | 38.8                        | 7 800                         |
| 26.0               | 55.2                 | 37.4                        | 6 700                         |
| 28.0               | 51.9                 | 35.9                        | 5 800                         |
| 30.0               | 48.3                 | 34.1                        | 4 900                         |
| 32.0               | 44.5                 | 32.2                        | 4 200                         |
| 34.0               | 40.5                 | 29.9                        | 3 600                         |
| 36.0               | 36.1                 | 27.3                        | 3 000                         |
| 38.0               | 31.1                 | 24.1                        | 2 500                         |
| 40.0               | 25.2                 | 20.2                        | 2 000                         |
| 42.0               | 17.4                 | 14.8                        | 1 600                         |

**45.7m (150 Ft.)**

**Boom**



| Oper.<br>Rad.<br>m | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>m | 43 270 kg<br>Counterweight    |
|--------------------|----------------------|-----------------------------|-------------------------------|
|                    |                      |                             | Boom<br>Capacity<br>Kilograms |
| 7.9                | 82.3                 | 48.0                        | 38 200                        |
| 8.0                | 82.2                 | 48.0                        | 37 800                        |
| 9.0                | 80.9                 | 47.8                        | 32 400                        |
| 10.0               | 79.7                 | 47.6                        | 28 300                        |
| 11.0               | 78.4                 | 47.4                        | 24 900                        |
| 12.0               | 77.1                 | 47.2                        | 22 200                        |
| 14.0               | 74.5                 | 46.6                        | 17 900                        |
| 16.0               | 71.9                 | 46.0                        | 14 700                        |
| 18.0               | 69.2                 | 45.2                        | 12 300                        |
| 20.0               | 66.5                 | 44.4                        | 10 400                        |
| 22.0               | 63.7                 | 43.4                        | 8 800                         |
| 24.0               | 60.8                 | 42.3                        | 7 500                         |
| 26.0               | 57.9                 | 41.1                        | 6 400                         |
| 28.0               | 54.8                 | 39.7                        | 5 500                         |
| 30.0               | 51.7                 | 38.2                        | 4 700                         |
| 32.0               | 48.4                 | 36.4                        | 3 900                         |
| 34.0               | 44.8                 | 34.5                        | 3 300                         |
| 36.0               | 41.1                 | 32.3                        | 2 800                         |
| 38.0               | 37.1                 | 29.7                        | 2 200                         |
| 40.0               | 32.6                 | 26.7                        | 1 800                         |
| 42.0               | 27.4                 | 23.1                        | 1 400                         |
| 44.0               | 21.1                 | 18.5                        | 1 000                         |