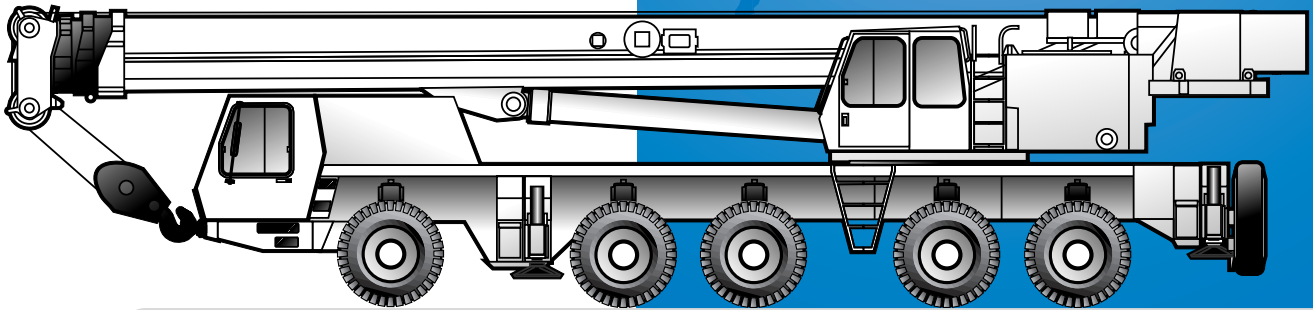




**GROVE®**  
**CRANE**

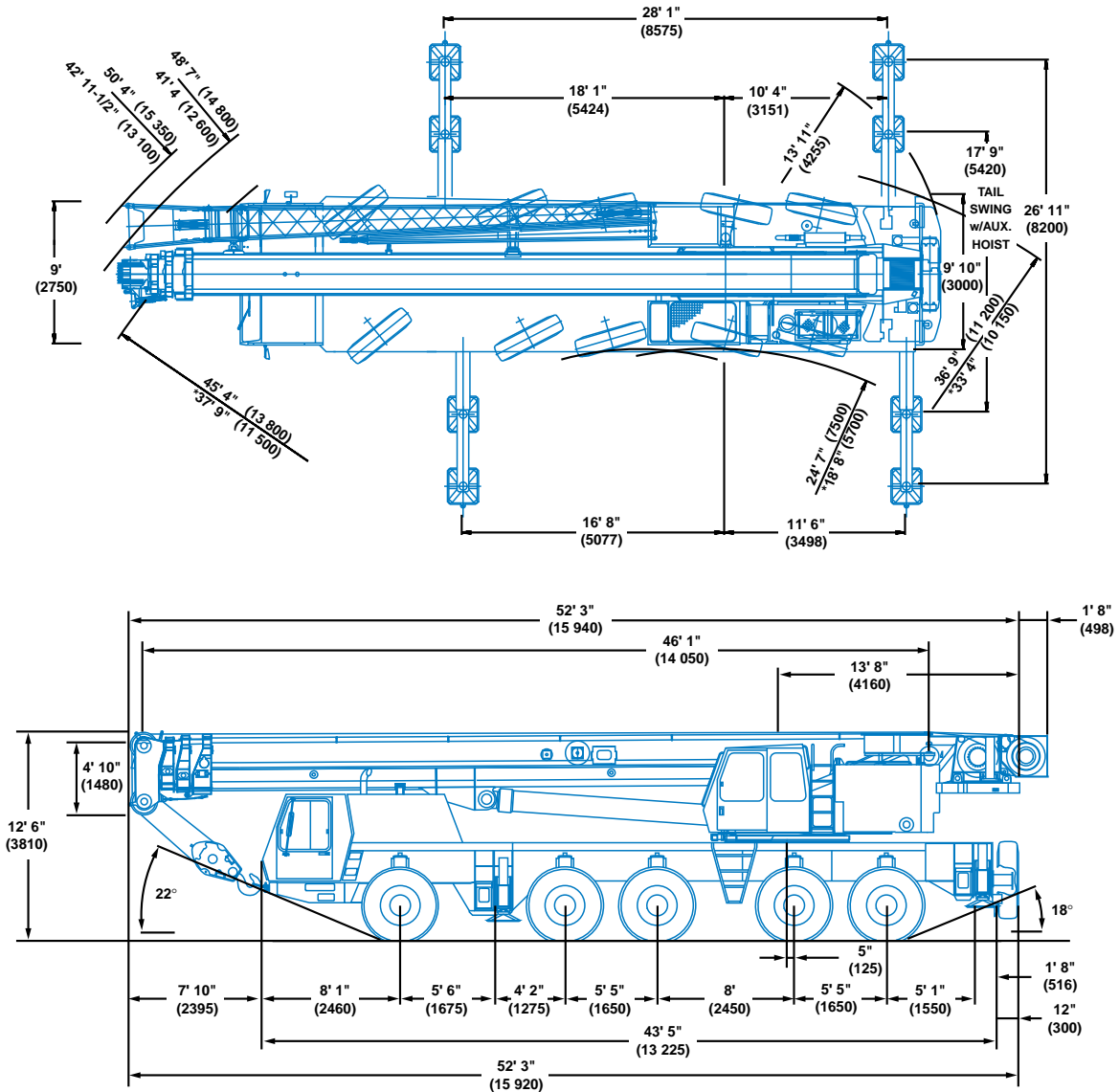
A GROVE WORLDWIDE COMPANY

# GMK5150B



**All Terrain Hydraulic Crane**

# Dimensions



## Model GMK 5150B equipped with:

10 x 6 x 10 drive/steer, 20.5 x 25 tires, hydraulic oil cooler, main hoist with cable (less all counterweight, hook blocks, outrigger floats and lattice extension).

## Axles 1, 2 & 3

77,135 lbs.

## Axles 4 & 5

40,505 lbs.

## Total

117,640 lbs.

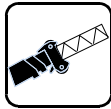
## Weights for accessory equipment:

|  | Axles 1, 2 & 3 | Axles 4 & 5 | Total   |
|--|----------------|-------------|---------|
| 1. Outrigger floats stowed                             | + 139          | + 258       | + 397   |
| 2. Brackets for lattice extension to stow on base boom | + 285          | - 65        | + 220   |
| 3. Lattice extension - 33/53 ft.                       | + 3,479        | - 944       | + 2,535 |
| 4. 10 x 8 drive  | - 48           | + 919       | + 871   |
| 5. Rooster sheave                                      | + 320          | - 180       | + 140   |
| 6. 16.00R25 tires in lieu of 20.5R25                   | - 555          | - 370       | - 925   |
| 7. 14.00R25 tires in lieu of 20.5R25                   | - 1,350        | - 900       | - 2,250 |
| 8. Bracket for spare tire                              | - 30           | + 85        | + 55    |
| 9. Spare tire - 14.00R25                               | - 295          | + 825       | + 530   |
| 10. Spare tire - 16.00R25                              | - 380          | + 1,040     | + 660   |
| 11. Spare tire - 20.5R25                               | - 435          | + 1,190     | + 755   |
| 12. Auxiliary hoist                                    | - 1,640        | + 4,290     | + 2,650 |
| 13. Remove rear outrigger beams/jacks                  | + 2,395        | - 7,795     | - 5,400 |
| 14. Remove front outrigger beams/jacks                 | - 5,165        | + 705       | - 4,460 |

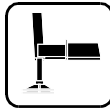
# Working Range



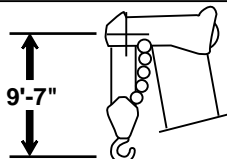
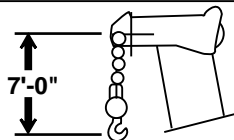
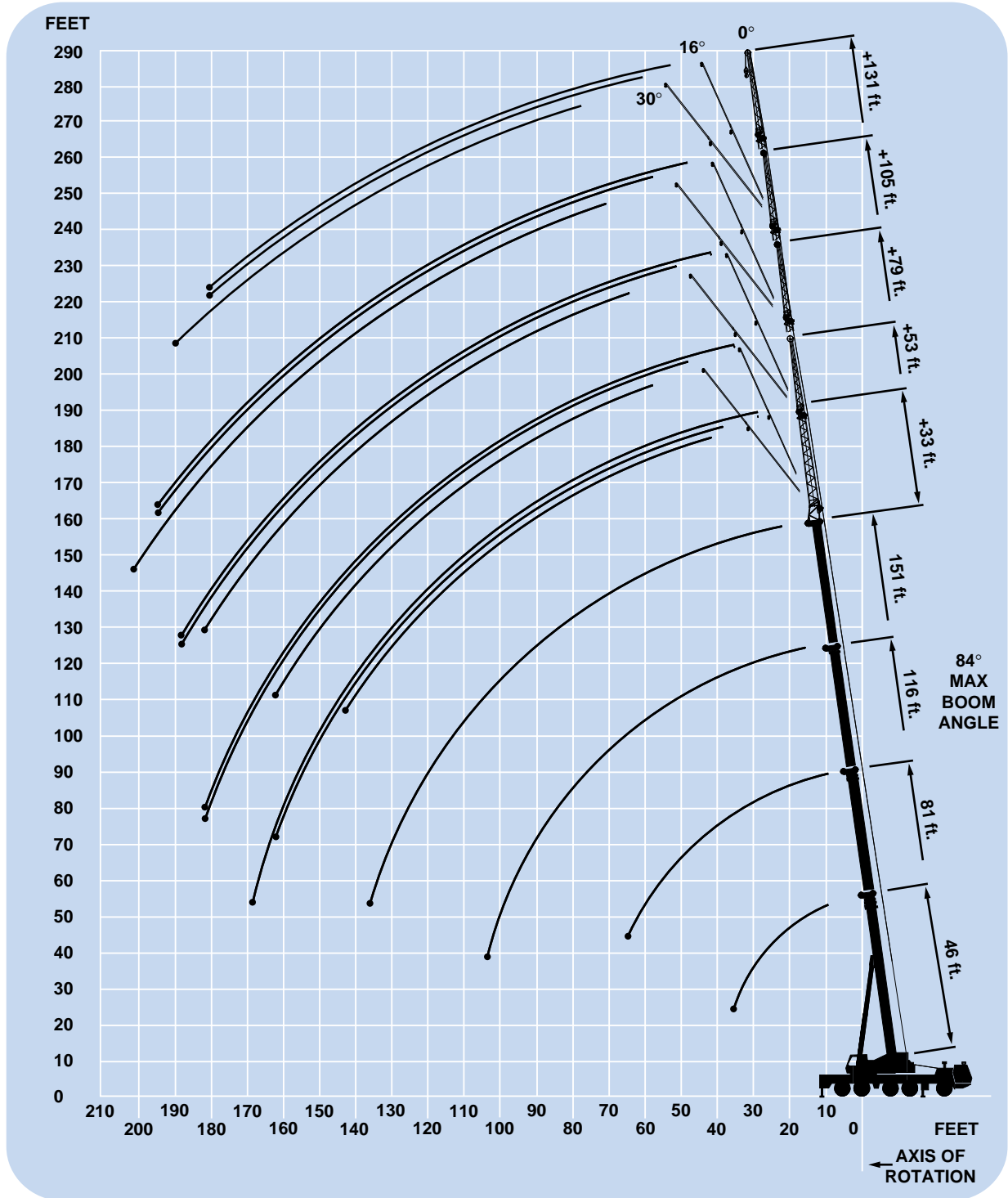
46-151 ft.  
(14.0-46.0 m)



33-131 ft.  
(10.0-39.9 m)



360°



DIMENSIONS ARE FOR LARGEST GROVE FURNISHED HOOKBLOCK AND HEADACHE BALL, WITH ANTI-TWO BLOCK ACTIVATED.

# Superstructure specifications

## Boom

46 ft. to 151 ft. (14.0 m to 46.0 m) four-section full power boom.  
Maximum tip height: 161 ft. (49.0 m)

## Lattice Extension

Two-stage, 33 ft. to 53 ft. (10.0 m to 16.0 m) lattice extension offsettable at 0°, 16° and 30°. Stows alongside base boom section.  
Maximum tip height: 213 ft. (65.0 m)

## \*Optional Lattice Extension

53 ft. (16.0 m) base section combines with three 26 ft. (7.92 m) inserts for lengths of 79, 105 and 131 ft. (24.0, 32.0 and 40.0 m). All three lengths offset at 0°, 16° and 30°.  
Maximum tip height: 290 ft. (88.4 m)

## Boom Elevation

Single cylinder with integral holding valves provides elevation from -3° to 84°.

## Load Moment & Anti-Two Block System

Load moment and anti-two block system with audio-visual warning and control lever lock-out. These systems provide electronic display of boom angle, length, radius, tip height, relative load moment, maximum permissible load, load indication and warning of impending two-block condition.

## Cab

Full vision aluminum cab, mounted on left-hand side of turntable, safety glass windows, hinged skylight window with windshield wiper, door with sliding windows, sun visor and roller blind, engine hot water heater, fan and defroster. Seat with hydraulic suspension and neck support, adjustable armrest. Ergonomically arranged instrumentation and operating controls for crane and engine.

## Swing

Two bent axis piston motors with planetary gear and holding brake. Swing speed infinitely variable from 0 to 1.8 RPM.

## Counterweight

Total of 59,500 lbs. (27 000 kg). Hydraulic installation/removal of all counterweight pieces. Cylinders for counterweight assembly at the turntable.

## Engine

Mercedes Benz OM 366 A diesel, 6 cylinders, water-cooled, 139 hp (104 kW) @ 1800 RPM.  
Maximum torque: 417 ft. lbs. @ 1,500 - 1,600 RPM.

## Fuel Tank Capacity

52.8 gallons (200 L).

## HYDRAULIC SYSTEM

Three separate circuits in open circuit arrangement, comprising one axial piston variable displacement double pump with cumulative flow control and one triple fixed displacement gear pump. Hydraulic oil cooler. 291 gallons (1100 L tank capacity reservoir.)

## Control System

All crane movements infinitely variable by hydraulic pilot control through armrest-integrated crane control levers with automatic reset to zero.

## Electrical System

Two batteries: 12 V/170 Ah each  
Generator: 28 V/55 A

## HOIST SPECIFICATIONS

### Main Hoist

Axial piston motor with planetary gear and automatic multiple disk brake. Drum rotation indicator.

|                    |                          |
|--------------------|--------------------------|
| Single line pull:  | 15,700 lbs.<br>(7100 kg) |
| Single line speed: | 394 FPM<br>(120 m/min)   |
| Rope diameter:     | 3/4 in.<br>(19 mm)       |
| Rope length:       | 787 ft.<br>(240 m)       |

### \*Optional Auxiliary Hoist

Axial piston motor with planetary gear and automatic multiple disk brake. Drum rotation indicator.

|                    |                          |
|--------------------|--------------------------|
| Single line pull:  | 15,700 lbs.<br>(7100 kg) |
| Single line speed: | 394 FPM<br>(120 m/min)   |
| Rope diameter:     | 3/4 in.<br>(19 mm)       |
| Rope length:       | 590 ft.<br>(180 m)       |

*\*Denotes optional equipment*

# Carrier specifications

## Chassis

Five-axle, all-welded torsion-resistant box-type construction of high strength steel.

## Outriggers

Four hydraulically telescoping beam outriggers with vertical cylinders and outrigger pads. Independent horizontal and vertical movement control on each side of chassis. Crane level indicators for leveling control.

## Engine

Mercedes Benz OM 442 LA diesel, 8 cylinders, water-cooled, with turbocharger and supercharger intercooler, 496 hp (370 kW) @ 2100 RPM. Maximum torque: 2,020 ft. lbs. @ 1,100 - 1,600 RPM

## Fuel Tank Capacity

105 gallons (400 L).

## Transmission

Allison automatic powershift transmission with 5 forward and 1 reverse gear. Two speed Kessler transfer case with longitudinal differential lock.

## Drive

10 x 6 x 10

## Axles

1st axle line - steer.

2nd axle line - drive/steer.

3rd axle line - drive/steer.

4th axle line - steer (off road only).

5th axle line - drive/steer.

## Suspension

Exclusive "MEGATRAK™" independent hydropneumatic suspension and hydraulic axle lock-out. Level regulation. Suspension range: +6.7 in. (170 mm) to -4.97 in. (-126 mm). Automatic suspension level control by proximity switches.

## Tires

10 - 20.5 x 25 radials.

## Steering

Dual-circuit hydraulic power-assisted steering. Automatic switch-in of stand-by steering pump in case of main pump failure.

## Brakes

Service brake: pneumatic dual circuit acting on all wheels. Air dryer. Parking brake: pneumatically operated spring-loaded brake acting on 2nd, 3rd, 4th and 5th axle lines. Auxiliary brake: hydraulic retarder integrated with automatic transmission.

## Cab

Aluminum, two-man design, safety glass, laminated front windshield, windshield wipers/washers, defroster nozzle, lockable doors with sliding windows, driver's seat with hydraulic suspension, engine hot water heater, heatable rear view mirrors. Complete operating and driving controls. Stereo radio/cassette. Cab can be tilted forward by 60° for easy access to engine, transmission, hydraulic pumps, heater and batteries.

## Electrical System

24 V lighting system and signals. Generator: 28 V/55 A. Two batteries: 12 V/170 Ah each.

## Maximum Speed

46 mph (74 km/h)

## Gradeability (Theoretical)

50%

## Gross Vehicle Weight (Approximate)

117,640 lbs. (53 360 kg) see page 2.

## Miscellaneous Standard Equipment

Hydraulic oil cooler; spare tire and wheel - 20.5R25 with carry bracket; spare parts/service manuals; flashing amber warning light on carrier cab; working light, tool kit, wheel chocks, fire extinguisher; rooster sheave.

## Special Equipment to Dismantle Crane for Travel

\*Boom float kit for boom dolly operation including electric and air line plugs at rear of carrier frame (less dolly).

\*Hydraulic quick disconnect fittings for removal of outriggers beams and jacks.

## Optional Equipment

\*10 x 8 x 10 drive

\*Hookblocks and headache balls

\*14.00R25 tires

\*16.00R25 tires



46 - 151 ft.  
(14.0 - 46.0 m)



59,600 lbs.  
(27 000 kg)



100%



360°

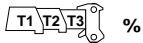


85% Domestic (Pounds)

| (Feet) | 46       | 64      | 81      | 99     | 116    | 133    | 151    |
|--------|----------|---------|---------|--------|--------|--------|--------|
| 9      | *300,000 |         |         |        |        |        |        |
| 10     | 288,000  | 218,000 | 136,000 |        |        |        |        |
| 15     | 220,000  | 199,000 | 131,000 | 85,000 |        |        |        |
| 20     | 174,000  | 166,000 | 111,000 | 85,000 | 71,000 | 53,000 |        |
| 25     | 133,000  | 130,000 | 95,000  | 83,000 | 67,000 | 53,000 | 41,200 |
| 30     | 105,000  | 103,000 | 85,000  | 75,000 | 64,000 | 53,000 | 41,200 |
| 35     | 87,000   | 85,000  | 85,000  | 65,000 | 60,000 | 53,000 | 41,200 |
| 40     |          | 76,000  | 73,000  | 58,000 | 54,000 | 51,000 | 41,200 |
| 45     |          | 63,000  | 60,000  | 52,000 | 49,000 | 46,000 | 38,800 |
| 50     |          | 53,000  | 50,000  | 49,000 | 43,800 | 41,600 | 36,400 |
| 55     |          |         | 43,000  | 44,000 | 39,600 | 37,800 | 34,200 |
| 60     |          |         | 37,200  | 38,600 | 36,600 | 34,600 | 32,000 |
| 65     |          |         | 35,000  | 33,600 | 34,400 | 31,600 | 30,000 |
| 70     |          |         |         | 29,600 | 30,600 | 29,200 | 27,800 |
| 75     |          |         |         | 26,400 | 27,000 | 25,600 | 25,800 |
| 80     |          |         |         | 24,800 | 24,000 | 23,400 | 23,400 |
| 85     |          |         |         | 23,400 | 21,400 | 22,200 | 20,800 |
| 90     |          |         |         |        | 19,000 | 20,000 | 18,600 |
| 95     |          |         |         |        | 17,400 | 18,000 | 16,400 |
| 100    |          |         |         |        | 16,400 | 16,000 | 14,600 |
| 105    |          |         |         |        |        | 14,400 | 13,000 |
| 110    |          |         |         |        |        | 13,000 | 11,400 |
| 115    |          |         |         |        |        | 11,600 | 10,200 |
| 120    |          |         |         |        |        |        | 9,000  |
| 125    |          |         |         |        |        |        | 7,800  |
| 130    |          |         |         |        |        |        | 6,800  |
| 135    |          |         |         |        |        |        | 6,000  |

\*Defined Arc/Over Rear Only

Lifting Capacities > 242,500 lbs. require additional equipment.



|    | % |      |          |          |           |        |     |
|----|---|------|----------|----------|-----------|--------|-----|
| T1 | 0 | 50/0 | 100/50/0 | 100/50/0 | 100/50/00 | 100/50 | 100 |
| T2 | 0 | 0/25 | 0/25/50  | 25/50/75 | 50/75/100 | 75/100 | 100 |
| T3 | 0 | 0/25 | 0/25/50  | 25/50/75 | 50/75/100 | 75/100 | 100 |

Note: All Main Boom Charts available with 50% Outriggers.



46 - 151 ft.  
(14.0 - 46.0 m)



46,700 lbs.  
(21 200 kg)



100%



360°

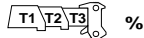


85% Domestic (Pounds)

| (Feet) | 46       | 64      | 81      | 99     | 116    | 133    | 151    |
|--------|----------|---------|---------|--------|--------|--------|--------|
| 9      | *300,000 |         |         |        |        |        |        |
| 10     | 286,000  | 218,000 | 136,000 |        |        |        |        |
| 15     | 220,000  | 199,000 | 131,000 | 85,000 |        |        |        |
| 20     | 166,000  | 163,000 | 111,000 | 85,000 | 71,000 | 53,000 |        |
| 25     | 126,000  | 123,000 | 95,000  | 83,000 | 67,000 | 53,000 | 41,200 |
| 30     | 100,000  | 97,000  | 85,000  | 75,000 | 64,000 | 53,000 | 41,200 |
| 35     | 81,000   | 85,000  | 82,000  | 65,000 | 60,000 | 53,000 | 41,200 |
| 40     |          | 68,000  | 65,000  | 58,000 | 54,000 | 51,000 | 41,200 |
| 45     |          | 56,000  | 53,000  | 52,000 | 49,000 | 46,000 | 38,800 |
| 50     |          | 47,000  | 45,000  | 46,000 | 43,800 | 41,600 | 36,400 |
| 55     |          |         | 40,000  | 39,200 | 39,200 | 37,800 | 34,200 |
| 60     |          |         | 36,200  | 33,800 | 34,800 | 33,400 | 32,000 |
| 65     |          |         | 31,600  | 29,800 | 30,400 | 28,800 | 29,800 |
| 70     |          |         |         | 28,200 | 26,400 | 26,400 | 25,800 |
| 75     |          |         |         | 25,200 | 23,000 | 24,000 | 22,400 |
| 80     |          |         |         | 22,400 | 20,800 | 21,200 | 19,600 |
| 85     |          |         |         | 19,800 | 19,400 | 18,800 | 17,200 |
| 90     |          |         |         |        | 18,200 | 16,600 | 15,000 |
| 95     |          |         |         |        | 16,400 | 14,600 | 13,200 |
| 100    |          |         |         |        | 14,800 | 13,000 | 11,600 |
| 105    |          |         |         |        |        | 11,600 | 10,000 |
| 110    |          |         |         |        |        | 10,200 | 8,800  |
| 115    |          |         |         |        |        | 9,000  | 7,600  |
| 120    |          |         |         |        |        |        | 6,400  |
| 125    |          |         |         |        |        |        | 5,400  |
| 130    |          |         |         |        |        |        | 4,600  |
| 135    |          |         |         |        |        |        | 3,800  |

\*Defined Arc/Over Rear Only

Lifting Capacities > 242,500 lbs. require additional equipment



|    | T1 | T2   | T3       | T1       | T2        | T3       | T1     | T2  | T3  |
|----|----|------|----------|----------|-----------|----------|--------|-----|-----|
| T1 | 0  | 50/0 | 100/50/0 | 100/50/0 | 100/50/0  | 100/50/0 | 100/50 | 100 | 100 |
| T2 | 0  | 0/25 | 0/25/50  | 25/50/75 | 50/75/100 | 75/100   | 75/100 | 100 | 100 |
| T3 | 0  | 0/25 | 0/25/50  | 25/50/75 | 50/75/100 | 75/100   | 75/100 | 100 | 100 |



46 - 151 ft.  
(14.0 - 46.0 m)



28,000 lbs.  
(12 700 kg)



100%



360°

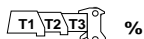


85% Domestic (Pounds)

| (Feet) | 46       | 64      | 81      | 99     | 116    | 133    | 151    |
|--------|----------|---------|---------|--------|--------|--------|--------|
| 9      | *300,000 |         |         |        |        |        |        |
| 10     | 286,000  | 218,000 | 136,000 |        |        |        |        |
| 15     | 220,000  | 199,000 | 131,000 | 85,000 |        |        |        |
| 20     | 153,000  | 150,000 | 111,000 | 85,000 | 71,000 | 53,000 |        |
| 25     | 116,000  | 113,000 | 95,000  | 83,000 | 67,000 | 53,000 | 41,200 |
| 30     | 88,000   | 85,000  | 85,000  | 75,000 | 64,000 | 53,000 | 41,200 |
| 35     | 67,000   | 70,000  | 67,000  | 65,000 | 60,000 | 53,000 | 41,200 |
| 40     |          | 56,000  | 53,000  | 55,000 | 53,000 | 51,000 | 41,200 |
| 45     |          | 46,000  | 47,000  | 45,000 | 45,000 | 43,600 | 38,800 |
| 50     |          | 37,800  | 39,200  | 37,800 | 37,800 | 36,400 | 36,400 |
| 55     |          |         | 33,000  | 34,000 | 31,600 | 32,600 | 31,000 |
| 60     |          |         | 28,200  | 29,000 | 27,000 | 27,800 | 26,000 |
| 65     |          |         | 24,000  | 25,000 | 25,200 | 23,800 | 22,000 |
| 70     |          |         |         | 21,600 | 22,200 | 20,400 | 18,800 |
| 75     |          |         |         | 18,800 | 19,400 | 17,600 | 16,000 |
| 80     |          |         |         | 16,400 | 17,000 | 15,200 | 13,600 |
| 85     |          |         |         | 14,200 | 14,800 | 13,200 | 11,600 |
| 90     |          |         |         |        | 13,000 | 11,400 | 9,800  |
| 95     |          |         |         |        | 11,400 | 9,800  | 8,200  |
| 100    |          |         |         |        | 10,000 | 8,400  | 7,000  |
| 105    |          |         |         |        |        | 7,200  | 5,600  |
| 110    |          |         |         |        |        | 6,000  | 4,600  |
| 115    |          |         |         |        |        | 5,000  | 3,600  |
| 120    |          |         |         |        |        |        | 2,800  |
| 125    |          |         |         |        |        |        | 2,000  |

\*Defined Arc/Over Rear Only

Lifting Capacities > 242,500 lbs. require additional equipment



|    | T1 | T2   | T3       | T1       | T2        | T3       | T1     | T2  | T3  |
|----|----|------|----------|----------|-----------|----------|--------|-----|-----|
| T1 | 0  | 50/0 | 100/50/0 | 100/50/0 | 100/50/0  | 100/50/0 | 100/50 | 100 | 100 |
| T2 | 0  | 0/25 | 0/25/50  | 25/50/75 | 50/75/100 | 75/100   | 75/100 | 100 | 100 |
| T3 | 0  | 0/25 | 0/25/50  | 25/50/75 | 50/75/100 | 75/100   | 75/100 | 100 | 100 |

THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE. The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.



46 - 151 ft.  
(14.0 - 46.0 m)



9,300 lbs.  
(4200 kg)



100%



360°

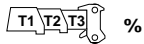


85% Domestic (Pounds)

| (Feet) | 46      | 64      | 81      | 99     | 116    | 133    | 151    |
|--------|---------|---------|---------|--------|--------|--------|--------|
| 10     | 286,000 | 218,000 | 136,000 |        |        |        |        |
| 15     | 204,000 | 199,000 | 131,000 | 85,000 |        |        |        |
| 20     | 140,000 | 137,000 | 111,000 | 85,000 | 71,000 | 53,000 |        |
| 25     | 102,000 | 97,000  | 88,000  | 83,000 | 67,000 | 53,000 | 41,200 |
| 30     | 70,000  | 74,000  | 70,000  | 64,000 | 62,000 | 53,000 | 41,200 |
| 35     | 52,000  | 55,000  | 54,000  | 53,000 | 52,000 | 47,000 | 41,200 |
| 40     |         | 42,400  | 44,000  | 45,000 | 41,600 | 41,000 | 37,400 |
| 45     |         | 33,600  | 35,200  | 36,200 | 35,000 | 34,000 | 30,600 |
| 50     |         | 27,000  | 28,600  | 29,600 | 30,400 | 28,400 | 25,200 |
| 55     |         |         | 23,600  | 24,600 | 25,200 | 23,200 | 21,000 |
| 60     |         |         | 19,600  | 20,400 | 21,200 | 19,200 | 17,400 |
| 65     |         |         | 16,200  | 17,200 | 17,800 | 16,000 | 14,200 |
| 70     |         |         |         | 14,600 | 15,200 | 13,200 | 11,600 |
| 75     |         |         |         | 12,200 | 12,800 | 11,000 | 9,400  |
| 80     |         |         |         | 10,400 | 11,000 | 9,200  | 7,600  |
| 85     |         |         |         | 8,800  | 9,200  | 7,600  | 6,000  |
| 90     |         |         |         |        | 7,800  | 6,000  | 4,600  |
| 95     |         |         |         |        | 6,600  | 4,800  | 3,200  |
| 100    |         |         |         |        | 5,400  | 3,600  | 2,000  |
| 105    |         |         |         |        |        | 2,600  |        |

\*Defined Arc/Over Rear Only

Lifting Capacities > 242,500 lbs. require additional equipment



%

|    |   |      |          |          |           |        |     |
|----|---|------|----------|----------|-----------|--------|-----|
| T1 | 0 | 50/0 | 100/50/0 | 100/50/0 | 100/50/0  | 100/50 | 100 |
| T2 | 0 | 0/25 | 0/25/50  | 25/50/75 | 50/75/100 | 75/100 | 100 |
| T3 | 0 | 0/25 | 0/25/50  | 25/50/75 | 50/75/100 | 75/100 | 100 |



46 - 151 ft.  
(14.0 - 46.0 m)



0 lbs.  
(0 kg)



100%



360°

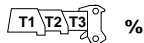


85% Domestic (Pounds)

| (Feet) | 46      | 64      | 81      | 99     | 116    | 133    | 151    |
|--------|---------|---------|---------|--------|--------|--------|--------|
| 10     | 286,000 | 218,000 | 136,000 |        |        |        |        |
| 15     | 195,000 | 161,000 | 131,000 | 85,000 |        |        |        |
| 20     | 121,000 | 99,000  | 85,000  | 78,000 | 71,000 | 53,000 |        |
| 25     | 84,000  | 78,000  | 65,000  | 62,000 | 57,000 | 53,000 | 41,200 |
| 30     | 60,000  | 57,000  | 54,000  | 51,000 | 47,000 | 41,400 | 36,200 |
| 35     | 42,400  | 44,000  | 42,400  | 40,400 | 38,200 | 33,200 | 28,600 |
| 40     |         | 35,000  | 34,000  | 32,600 | 31,200 | 26,800 | 23,000 |
| 45     |         | 27,200  | 27,800  | 27,000 | 26,000 | 22,000 | 18,400 |
| 50     |         | 21,400  | 23,000  | 22,400 | 21,800 | 18,000 | 14,600 |
| 55     |         |         | 18,600  | 18,800 | 18,200 | 14,600 | 11,600 |
| 60     |         |         | 15,200  | 15,600 | 15,200 | 11,800 | 9,000  |
| 65     |         |         | 12,200  | 13,000 | 12,800 | 9,600  | 6,800  |
| 70     |         |         |         | 10,600 | 10,600 | 7,600  | 5,000  |
| 75     |         |         |         | 8,600  | 8,800  | 6,000  | 3,400  |
| 80     |         |         |         | 6,800  | 7,400  | 4,600  | 2,200  |
| 85     |         |         |         | 5,400  | 6,000  | 3,200  |        |
| 90     |         |         |         |        | 4,600  | 2,200  |        |
| 95     |         |         |         |        | 3,600  |        |        |
| 100    |         |         |         |        | 2,600  |        |        |
| 105    |         |         |         |        |        |        |        |

\*Defined Arc/Over Rear Only

Lifting Capacities > 242,500 lbs. require additional equipment



%

|    |   |      |          |          |           |        |     |
|----|---|------|----------|----------|-----------|--------|-----|
| T1 | 0 | 50/0 | 100/50/0 | 100/50/0 | 100/50/0  | 100/50 | 100 |
| T2 | 0 | 0/25 | 0/25/50  | 25/50/75 | 50/75/100 | 75/100 | 100 |
| T3 | 0 | 0/25 | 0/25/50  | 25/50/75 | 50/75/100 | 75/100 | 100 |





99 - 151 ft.  
(30.0 - 46.0 m)



33 ft.  
(10.0 m)



59,600 lbs.  
(27 000 kg)



100%



360°



85% Domestic (Pounds)

| (Feet) | 33' - 0° LATTICE EXT. |        |        |        | 33' - 16° LATTICE EXT. |        |        |        | 33' - 30° LATTICE EXT. |        |        |        |
|--------|-----------------------|--------|--------|--------|------------------------|--------|--------|--------|------------------------|--------|--------|--------|
|        | 99                    | 116    | 133    | 151    | 99                     | 116    | 133    | 151    | 99                     | 116    | 133    | 151    |
| 20     | 30,800                |        |        |        |                        |        |        |        |                        |        |        |        |
| 25     | 29,400                | 28,600 |        |        |                        |        |        |        |                        |        |        |        |
| 30     | 26,800                | 27,000 | 24,000 | 20,600 | 19,200                 | 19,600 |        |        |                        |        |        |        |
| 35     | 24,600                | 25,200 | 23,800 | 20,600 | 18,200                 | 18,400 | 18,400 |        | 14,200                 |        |        |        |
| 40     | 22,600                | 23,400 | 23,200 | 20,600 | 17,000                 | 17,600 | 17,600 | 17,200 | 13,600                 | 13,800 | 13,800 |        |
| 45     | 21,000                | 21,800 | 22,000 | 20,600 | 16,200                 | 16,600 | 16,800 | 16,600 | 13,200                 | 13,400 | 13,400 | 13,200 |
| 50     | 19,400                | 20,600 | 20,800 | 20,000 | 15,000                 | 16,000 | 16,200 | 16,000 | 12,600                 | 13,000 | 13,000 | 13,000 |
| 55     | 18,200                | 19,400 | 19,800 | 19,400 | 14,000                 | 15,200 | 15,400 | 15,400 | 12,200                 | 12,600 | 12,800 | 12,600 |
| 60     | 17,200                | 18,200 | 18,800 | 18,600 | 13,400                 | 14,400 | 14,600 | 14,600 | 11,800                 | 12,200 | 12,400 | 12,400 |
| 65     | 16,000                | 17,200 | 17,800 | 18,000 | 12,800                 | 13,600 | 13,800 | 14,000 | 11,400                 | 11,800 | 12,000 | 12,000 |
| 70     | 15,200                | 16,200 | 17,000 | 17,200 | 12,400                 | 13,000 | 13,400 | 13,600 | 11,200                 | 11,600 | 11,800 | 11,800 |
| 75     | 14,200                | 15,400 | 16,400 | 16,600 | 12,000                 | 12,600 | 13,000 | 13,200 | 10,800                 | 11,200 | 11,600 | 11,600 |
| 80     | 13,200                | 14,400 | 15,600 | 16,000 | 11,400                 | 12,000 | 12,600 | 12,800 | 10,600                 | 11,000 | 11,200 | 11,400 |
| 85     | 12,600                | 13,600 | 14,800 | 15,200 | 11,000                 | 11,800 | 12,200 | 12,400 | 10,400                 | 10,800 | 11,000 | 11,200 |
| 90     | 12,000                | 13,200 | 14,200 | 14,600 | 10,800                 | 11,400 | 11,800 | 12,000 | 10,200                 | 10,400 | 10,800 | 11,000 |
| 95     | 11,400                | 12,600 | 13,400 | 14,000 | 10,400                 | 11,000 | 11,400 | 11,800 | 10,000                 | 10,200 | 10,600 | 10,800 |
| 100    | 11,000                | 12,000 | 12,800 | 13,400 | 10,000                 | 10,800 | 11,200 | 11,400 | 9,800                  | 10,000 | 10,400 | 10,600 |
| 105    | 10,600                | 11,600 | 12,400 | 13,000 | 10,000                 | 10,400 | 11,000 | 11,200 |                        | 10,000 | 10,200 | 10,400 |
| 110    | 10,200                | 11,200 | 12,000 | 12,600 | 9,800                  | 10,200 | 10,800 | 11,000 |                        | 10,000 | 10,000 | 10,200 |
| 115    | 9,800                 | 10,800 | 11,400 | 11,600 | 9,800                  | 10,000 | 10,400 | 10,800 |                        | 9,800  | 10,000 | 10,200 |
| 120    |                       | 10,400 | 10,200 | 10,400 |                        | 9,800  | 10,200 | 10,600 |                        |        | 9,800  | 10,000 |
| 125    |                       | 10,000 | 9,000  | 9,400  |                        | 9,600  | 9,400  | 9,800  |                        |        | 9,600  | 9,800  |
| 130    |                       | 9,600  | 8,000  | 8,400  |                        | 9,400  | 8,400  | 8,800  |                        |        | 8,600  | 9,000  |
| 135    |                       |        | 7,000  | 7,400  |                        |        | 7,400  | 7,800  |                        |        |        | 8,000  |
| 140    |                       |        | 6,200  | 6,600  |                        |        | 6,400  | 7,000  |                        |        |        | 7,200  |
| 145    |                       |        | 5,400  | 5,800  |                        |        | 5,600  | 6,000  |                        |        |        |        |
| 150    |                       |        | 4,600  | 5,000  |                        |        | 4,800  | 5,200  |                        |        |        |        |
| 155    |                       |        |        | 4,400  |                        |        |        | 4,600  |                        |        |        |        |
| 160    |                       |        |        | 3,600  |                        |        |        | 3,800  |                        |        |        |        |
| 165    |                       |        |        | 3,200  |                        |        |        |        |                        |        |        |        |
| 170    |                       |        |        | 2,600  |                        |        |        |        |                        |        |        |        |
|        | %                     |        |        |        |                        |        |        |        |                        |        |        |        |
| T1     | 100/0                 | 100/0  | 100    | 100    | 100/0                  | 100/0  | 100    | 100    | 100/0                  | 100/0  | 100    | 100    |
| T2     | 25/75                 | 50/100 | 75     | 100    | 25/75                  | 50/100 | 75     | 100    | 25/75                  | 50/100 | 75     | 100    |
| T3     | 25/75                 | 50/100 | 75     | 100    | 25/75                  | 50/100 | 75     | 100    | 25/75                  | 50/100 | 75     | 100    |

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99 - 151 ft.  
(30.0 - 46.0 m)



53 ft.  
(16.0 m)



59,600 lbs.  
(27 000 kg)



100%



360°



85% Domestic (Pounds)

| (Feet) | 53' - 0° LATTICE EXT. |        |        |        | 53' - 16° LATTICE EXT. |        |        |        | 53' - 30° LATTICE EXT. |        |       |       |
|--------|-----------------------|--------|--------|--------|------------------------|--------|--------|--------|------------------------|--------|-------|-------|
|        | 99                    | 116    | 133    | 151    | 99                     | 116    | 133    | 151    | 99                     | 116    | 133   | 151   |
| 25     | 15,400                |        |        |        |                        |        |        |        |                        |        |       |       |
| 30     | 15,400                | 15,400 | 14,800 |        |                        |        |        |        |                        |        |       |       |
| 35     | 15,400                | 15,400 | 14,600 |        |                        |        |        |        |                        |        |       |       |
| 40     | 14,800                | 15,200 | 14,000 | 13,400 | 10,800                 | 11,000 |        |        |                        |        |       |       |
| 45     | 13,400                | 14,000 | 13,600 | 13,000 | 10,200                 | 10,400 | 10,400 |        |                        |        |       |       |
| 50     | 12,600                | 13,000 | 13,200 | 12,600 | 9,800                  | 10,000 | 10,000 | 10,000 | 8,200                  | 8,400  |       |       |
| 55     | 11,800                | 12,400 | 12,600 | 12,200 | 9,200                  | 9,600  | 9,600  | 9,600  | 7,800                  | 8,000  | 8,000 |       |
| 60     | 11,000                | 11,600 | 12,000 | 11,800 | 8,800                  | 9,200  | 9,200  | 9,400  | 7,600                  | 7,800  | 7,800 | 7,800 |
| 65     | 10,400                | 11,000 | 11,400 | 11,400 | 8,400                  | 8,800  | 9,000  | 9,000  | 7,400                  | 7,600  | 7,600 | 7,600 |
| 70     | 9,800                 | 10,400 | 10,800 | 11,000 | 8,000                  | 8,400  | 8,600  | 8,800  | 7,200                  | 7,400  | 7,400 | 7,400 |
| 75     | 9,400                 | 10,000 | 10,400 | 10,600 | 7,800                  | 8,200  | 8,400  | 8,400  | 6,800                  | 7,200  | 7,200 | 7,200 |
| 80     | 8,800                 | 9,400  | 9,800  | 10,000 | 7,400                  | 7,800  | 8,000  | 8,200  | 6,600                  | 7,000  | 7,000 | 7,200 |
| 85     | 8,400                 | 9,000  | 9,400  | 9,800  | 7,200                  | 7,600  | 7,800  | 8,000  | 6,400                  | 6,800  | 6,800 | 7,000 |
| 90     | 8,000                 | 8,600  | 9,200  | 9,400  | 7,000                  | 7,400  | 7,600  | 7,800  | 6,400                  | 6,600  | 6,800 | 6,800 |
| 95     | 7,600                 | 8,200  | 8,800  | 9,000  | 6,800                  | 7,000  | 7,400  | 7,400  | 6,200                  | 6,400  | 6,600 | 6,600 |
| 100    | 7,400                 | 8,000  | 8,400  | 8,800  | 6,400                  | 6,800  | 7,200  | 7,200  | 6,000                  | 6,200  | 6,400 | 6,600 |
| 105    | 7,000                 | 7,600  | 8,200  | 8,400  | 6,400                  | 6,600  | 7,000  | 7,200  | 6,000                  | 6,200  | 6,400 | 6,400 |
| 110    | 6,800                 | 7,400  | 7,800  | 8,200  | 6,200                  | 6,600  | 6,800  | 7,000  | 5,800                  | 6,000  | 6,200 | 6,400 |
| 115    | 6,600                 | 7,200  | 7,600  | 8,000  | 6,000                  | 6,400  | 6,600  | 6,800  | 5,800                  | 6,000  | 6,000 | 6,200 |
| 120    | 6,400                 | 7,000  | 7,400  | 7,600  | 5,800                  | 6,200  | 6,400  | 6,600  | 5,800                  | 5,800  | 6,000 | 6,000 |
| 125    | 6,000                 | 6,600  | 7,000  | 7,400  | 5,800                  | 6,000  | 6,200  | 6,400  |                        | 5,800  | 5,800 | 6,000 |
| 130    | 5,800                 | 6,400  | 6,800  | 7,200  | 5,600                  | 5,800  | 6,200  | 6,400  |                        | 5,600  | 5,800 | 5,800 |
| 135    | 5,600                 | 6,200  | 6,600  | 7,000  | 5,600                  | 5,800  | 6,000  | 6,200  |                        | 5,600  | 5,800 | 5,800 |
| 140    |                       | 6,000  | 6,400  | 6,800  |                        | 5,800  | 6,000  | 6,000  |                        |        | 5,800 | 5,800 |
| 145    |                       | 5,800  | 6,200  | 6,600  |                        | 5,600  | 5,800  | 6,000  |                        |        | 5,600 | 5,800 |
| 150    |                       | 5,800  | 6,000  | 6,200  |                        | 5,600  | 5,800  | 5,800  |                        |        | 5,600 | 5,600 |
| 155    |                       |        | 5,400  | 5,400  |                        |        | 5,600  | 5,800  |                        |        |       | 5,600 |
| 160    |                       |        | 4,600  | 4,800  |                        |        | 5,000  | 5,400  |                        |        |       | 5,600 |
| 165    |                       |        | 4,000  | 4,200  |                        |        | 4,400  | 4,600  |                        |        |       |       |
| 170    |                       |        | 3,600  | 3,600  |                        |        | 3,800  | 4,000  |                        |        |       |       |
| 175    |                       |        |        | 3,200  |                        |        |        | 3,400  |                        |        |       |       |
| 180    |                       |        |        | 2,600  |                        |        |        | 3,000  |                        |        |       |       |
| 185    |                       |        |        | 2,200  |                        |        |        |        |                        |        |       |       |
|        | %                     |        |        |        |                        |        |        |        |                        |        |       |       |
| T1     | 100/0                 | 100/0  | 100    | 100    | 100/0                  | 100/0  | 100    | 100    | 100/0                  | 100/0  | 100   | 100   |
| T2     | 25/75                 | 50/100 | 75     | 100    | 25/75                  | 50/100 | 100    | 100    | 25/75                  | 50/100 | 75    | 100   |
| T3     | 25/75                 | 50/100 | 75     | 100    | 25/75                  | 50/100 | 100    | 100    | 25/75                  | 50/100 | 75    | 100   |

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99 - 151 ft.  
(30.0 - 46.0 m)



79 ft.  
(24.0 m)



59,600 lbs.  
(27 000 kg)




100%



360°



85% Domestic (Pounds)

| (Feet)  | 79' - 0° LATTICE EXT. |        |        |        | 79' - 16° LATTICE EXT. |        |       |       | 79' - 30° LATTICE EXT. |        |       |       |
|---|-----------------------|--------|--------|--------|------------------------|--------|-------|-------|------------------------|--------|-------|-------|
|   | 99                    | 116    | 133    | 151    | 99                     | 116    | 133   | 151   | 99                     | 116    | 133   | 151   |
| 30  | 14,800                |        |        |        |                        |        |       |       |                        |        |       |       |
| 35  | 14,600                | 13,800 |        |        |                        |        |       |       |                        |        |       |       |
| 40  | 14,600                | 13,600 | 11,800 |        | 10,600                 |        |       |       |                        |        |       |       |
| 45  | 14,000                | 13,600 | 11,800 | 10,000 | 10,200                 |        |       |       |                        |        |       |       |
| 50  | 13,200                | 13,200 | 11,800 | 10,000 | 9,800                  | 9,800  | 9,600 |       | 8,000                  |        |       |       |
| 55  | 12,600                | 12,600 | 11,800 | 10,000 | 9,400                  | 9,600  | 9,400 | 9,200 | 7,600                  | 7,800  |       |       |
| 60  | 12,000                | 12,000 | 11,600 | 10,000 | 9,000                  | 9,200  | 9,000 | 9,000 | 7,400                  | 7,800  | 7,600 |       |
| 65  | 11,400                | 11,600 | 11,200 | 10,000 | 8,600                  | 9,000  | 8,800 | 9,000 | 7,200                  | 7,600  | 7,400 |       |
| 70  | 10,800                | 11,000 | 11,000 | 10,000 | 8,400                  | 8,600  | 8,600 | 8,800 | 7,000                  | 7,400  | 7,200 | 7,400 |
| 75  | 10,400                | 10,600 | 10,600 | 10,000 | 8,000                  | 8,400  | 8,400 | 8,600 | 7,000                  | 7,200  | 7,000 | 7,200 |
| 80  | 9,800                 | 10,200 | 10,200 | 9,800  | 7,800                  | 8,200  | 8,000 | 8,400 | 6,800                  | 7,000  | 6,800 | 7,200 |
| 85  | 9,400                 | 9,800  | 9,800  | 9,600  | 7,600                  | 8,000  | 7,800 | 8,200 | 6,600                  | 7,000  | 6,800 | 7,000 |
| 90  | 9,000                 | 9,400  | 9,600  | 9,400  | 7,400                  | 7,800  | 7,600 | 8,000 | 6,400                  | 6,800  | 6,600 | 7,000 |
| 95  | 8,600                 | 9,000  | 9,200  | 9,200  | 7,200                  | 7,600  | 7,400 | 7,800 | 6,400                  | 6,600  | 6,400 | 6,800 |
| 100   | 8,200                 | 8,600  | 9,000  | 9,000  | 7,000                  | 7,400  | 7,200 | 7,600 | 6,200                  | 6,600  | 6,400 | 6,600 |
| 105   | 8,000                 | 8,400  | 8,600  | 8,800  | 6,800                  | 7,200  | 7,200 | 7,400 | 6,200                  | 6,400  | 6,400 | 6,600 |
| 110   | 7,600                 | 8,000  | 8,400  | 8,400  | 6,600                  | 7,000  | 7,000 | 7,400 | 6,000                  | 6,400  | 6,200 | 6,600 |
| 115   | 7,400                 | 7,800  | 8,000  | 8,200  | 6,400                  | 6,800  | 6,800 | 7,200 | 6,000                  | 6,400  | 6,200 | 6,400 |
| 120   | 7,000                 | 7,600  | 7,800  | 8,000  | 6,400                  | 6,800  | 6,800 | 7,000 | 5,800                  | 6,200  | 6,000 | 6,400 |
| 125   | 6,800                 | 7,200  | 7,600  | 7,800  | 6,200                  | 6,600  | 6,600 | 7,000 | 5,800                  | 6,200  | 6,000 | 6,200 |
| 130   | 6,400                 | 7,000  | 7,200  | 7,400  | 6,000                  | 6,400  | 6,400 | 6,800 | 5,600                  | 6,000  | 5,800 | 6,200 |
| 135   | 6,200                 | 6,800  | 7,000  | 7,200  | 6,000                  | 6,200  | 6,400 | 6,600 | 5,600                  | 6,000  | 5,800 | 6,200 |
| 140   | 6,000                 | 6,600  | 6,800  | 7,000  | 5,800                  | 6,200  | 6,200 | 6,600 | 5,600                  | 5,800  | 5,800 | 6,000 |
| 145   | 5,800                 | 6,400  | 6,600  | 7,000  | 5,600                  | 6,000  | 6,200 | 6,400 |                        | 5,800  | 5,800 | 6,000 |
| 150   | 5,600                 | 6,200  | 6,400  | 6,800  | 5,600                  | 5,800  | 6,000 | 6,200 |                        | 5,600  | 5,600 | 6,000 |
| 155   | 5,600                 | 6,000  | 6,000  | 6,000  | 5,400                  | 5,600  | 6,000 | 6,200 |                        | 5,600  | 5,600 | 6,000 |
| 160   | 5,400                 | 5,600  | 5,400  | 5,400  |                        | 5,600  | 5,800 | 6,000 |                        |        | 5,600 | 5,800 |
| 165   |                       | 5,600  | 4,800  | 4,800  |                        | 5,400  | 5,400 | 5,400 |                        |        | 5,600 | 5,800 |
| 170   |                       | 5,400  | 4,200  | 4,200  |                        | 5,200  | 4,600 | 4,800 |                        |        | 5,000 | 5,000 |
| 175   |                       | 5,200  | 3,600  | 3,600  |                        | 5,200  | 4,200 | 4,200 |                        |        |       | 4,400 |
| 180   |                       |        | 3,200  | 3,200  |                        |        | 3,600 | 3,600 |                        |        |       | 3,800 |
| 185   |                       |        | 2,800  | 2,600  |                        |        | 3,000 | 3,200 |                        |        |       |       |
| 190   |                       |        | 2,200  | 2,200  |                        |        | 2,600 | 2,600 |                        |        |       |       |
| 195   |                       |        |        |        |                        |        | 2,200 |       |                        |        |       |       |
|  % |                       |        |        |        |                        |        |       |       |                        |        |       |       |
| T1  | 100/0                 | 100/0  | 100    | 100    | 100/0                  | 100/0  | 100   | 100   | 100/0                  | 100/0  | 100   | 100   |
| T2  | 25/75                 | 50/100 | 100    | 100    | 25/75                  | 50/100 | 100   | 100   | 25/75                  | 50/100 | 75    | 100   |
| T3  | 25/75                 | 50/100 | 100    | 100    | 25/75                  | 50/100 | 100   | 100   | 25/75                  | 50/100 | 75    | 100   |

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99 - 151 ft.  
(30.0 - 46.0 m)



105 ft.  
(32.0 m)



59,600 lbs.  
(27 000 kg)



100%



360°



85% Domestic (Pounds)

|        | 105' - 0° LATTICE EXT. |        |       |       | 105' - 16° LATTICE EXT. |        |       |       | 105' - 30° LATTICE EXT. |        |       |       |
|--------|------------------------|--------|-------|-------|-------------------------|--------|-------|-------|-------------------------|--------|-------|-------|
| (Feet) | 99                     | 116    | 133   | 151   | 99                      | 116    | 133   | 151   | 99                      | 116    | 133   | 151   |
| 35     | 10,800                 |        |       |       |                         |        |       |       |                         |        |       |       |
| 40     | 10,400                 | 10,200 |       |       |                         |        |       |       |                         |        |       |       |
| 45     | 10,000                 | 9,800  | 8,600 |       |                         |        |       |       |                         |        |       |       |
| 50     | 9,800                  | 9,400  | 8,600 | 7,000 | 9,400                   | 8,800  |       |       |                         |        |       |       |
| 55     | 9,400                  | 9,200  | 8,600 | 7,000 | 9,000                   | 8,600  | 8,000 |       |                         |        |       |       |
| 60     | 9,000                  | 8,800  | 8,200 | 7,000 | 8,600                   | 8,200  | 7,800 | 7,000 | 7,400                   |        |       |       |
| 65     | 8,600                  | 8,400  | 8,000 | 7,000 | 8,200                   | 7,800  | 7,400 | 7,000 | 7,400                   |        |       |       |
| 70     | 8,200                  | 8,200  | 7,800 | 7,000 | 7,800                   | 7,600  | 7,200 | 6,800 | 7,200                   | 7,200  | 7,000 |       |
| 75     | 7,800                  | 7,800  | 7,400 | 7,000 | 7,400                   | 7,200  | 7,000 | 6,600 | 6,800                   | 7,000  | 6,800 | 6,400 |
| 80     | 7,400                  | 7,400  | 7,200 | 6,800 | 7,000                   | 7,000  | 6,800 | 6,400 | 6,600                   | 6,800  | 6,600 | 6,200 |
| 85     | 7,200                  | 7,200  | 7,000 | 6,600 | 6,800                   | 6,800  | 6,600 | 6,200 | 6,400                   | 6,400  | 6,400 | 6,000 |
| 90     | 6,800                  | 6,800  | 6,800 | 6,400 | 6,400                   | 6,400  | 6,400 | 6,000 | 6,200                   | 6,200  | 6,200 | 5,800 |
| 95     | 6,400                  | 6,600  | 6,600 | 6,200 | 6,200                   | 6,200  | 6,200 | 5,800 | 5,800                   | 6,000  | 6,000 | 5,600 |
| 100    | 6,200                  | 6,400  | 6,200 | 6,000 | 5,800                   | 6,000  | 6,000 | 5,800 | 5,600                   | 5,800  | 5,800 | 5,600 |
| 105    | 6,000                  | 6,200  | 6,200 | 6,000 | 5,600                   | 5,800  | 5,800 | 5,600 | 5,400                   | 5,600  | 5,600 | 5,400 |
| 110    | 5,600                  | 6,000  | 6,000 | 5,800 | 5,400                   | 5,600  | 5,600 | 5,400 | 5,200                   | 5,400  | 5,400 | 5,200 |
| 115    | 5,400                  | 5,800  | 5,800 | 5,600 | 5,200                   | 5,400  | 5,400 | 5,400 | 5,000                   | 5,200  | 5,200 | 5,200 |
| 120    | 5,200                  | 5,400  | 5,600 | 5,400 | 5,000                   | 5,200  | 5,200 | 5,200 | 4,800                   | 5,000  | 5,200 | 5,000 |
| 125    | 5,000                  | 5,200  | 5,400 | 5,200 | 4,800                   | 5,000  | 5,000 | 5,000 | 4,600                   | 4,800  | 5,000 | 5,000 |
| 130    | 4,600                  | 5,000  | 5,200 | 5,200 | 4,600                   | 4,800  | 5,000 | 4,800 | 4,400                   | 4,600  | 4,800 | 4,800 |
| 135    | 4,400                  | 4,800  | 5,000 | 5,000 | 4,400                   | 4,600  | 4,800 | 4,800 | 4,400                   | 4,600  | 4,600 | 4,600 |
| 140    | 4,400                  | 4,600  | 4,800 | 4,800 | 4,200                   | 4,400  | 4,600 | 4,600 | 4,200                   | 4,400  | 4,600 | 4,600 |
| 145    | 4,200                  | 4,400  | 4,800 | 4,800 | 4,200                   | 4,400  | 4,600 | 4,600 | 4,000                   | 4,200  | 4,400 | 4,400 |
| 150    | 4,000                  | 4,400  | 4,600 | 4,600 | 4,000                   | 4,200  | 4,400 | 4,400 | 3,800                   | 4,200  | 4,400 | 4,400 |
| 155    | 3,800                  | 4,200  | 4,400 | 4,400 | 3,800                   | 4,000  | 4,200 | 4,400 | 3,800                   | 4,000  | 4,200 | 4,200 |
| 160    | 3,600                  | 4,000  | 4,200 | 4,400 | 3,600                   | 3,800  | 4,000 | 4,200 | 3,600                   | 3,800  | 4,000 | 4,200 |
| 165    | 3,600                  | 3,800  | 4,000 | 4,200 | 3,600                   | 3,800  | 4,000 | 4,200 | 3,400                   | 3,800  | 4,000 | 4,000 |
| 170    | 3,400                  | 3,800  | 4,000 | 4,200 | 3,400                   | 3,600  | 3,800 | 4,000 | 3,400                   | 3,600  | 3,800 | 4,000 |
| 175    | 3,400                  | 3,600  | 3,800 | 4,000 | 3,400                   | 3,600  | 3,800 | 4,000 |                         | 3,600  | 3,800 | 3,800 |
| 180    | 3,200                  | 3,600  | 3,600 | 3,600 | 3,200                   | 3,400  | 3,600 | 3,800 |                         | 3,400  | 3,600 | 3,800 |
| 185    |                        | 3,400  | 3,200 | 3,000 |                         | 3,400  | 3,600 | 3,600 |                         |        | 3,600 | 3,600 |
| 190    |                        | 3,200  | 2,800 | 2,600 |                         | 3,200  | 3,200 | 3,000 |                         |        | 3,400 | 3,400 |
| 195    |                        | 3,200  | 2,200 | 2,200 |                         | 3,200  | 2,600 | 2,600 |                         |        | 2,800 | 2,800 |
| 200    |                        | 3,000  | 1,800 |       |                         |        | 2,200 | 2,200 |                         |        |       | 2,400 |
| 205    |                        |        |       |       |                         |        |       |       |                         |        |       | 2,000 |
| %      |                        |        |       |       |                         |        |       |       |                         |        |       |       |
| T1     | 100/0                  | 100/0  | 100   | 100   | 100/0                   | 100/0  | 100   | 100   | 100/0                   | 100/0  | 100   | 100   |
| T2     | 25/75                  | 50/100 | 100   | 100   | 25/75                   | 50/100 | 100   | 100   | 25/75                   | 50/100 | 100   | 100   |
| T3     | 25/75                  | 50/100 | 100   | 100   | 25/75                   | 50/100 | 100   | 100   | 25/75                   | 50/100 | 100   | 100   |

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99 - 151 ft.  
(30.0 - 46.0 m)



131 ft.  
(40.0 m)



59,600 lbs.  
(27 000 kg)



100%



360°



85% Domestic (Pounds)

| (Feet) | 131' - 0° LATTICE EXT. |        |       |       | 131' - 16° LATTICE EXT. |        |       |       | 131' - 30° LATTICE EXT. |        |       |       |
|--------|------------------------|--------|-------|-------|-------------------------|--------|-------|-------|-------------------------|--------|-------|-------|
|        | 99                     | 116    | 133   | 151   | 99                      | 116    | 133   | 151   | 99                      | 116    | 133   | 151   |
| 40     | 6,400                  | 6,600  |       |       |                         |        |       |       |                         |        |       |       |
| 45     | 6,400                  | 6,400  | 5,800 |       |                         |        |       |       |                         |        |       |       |
| 50     | 6,400                  | 6,200  | 5,800 | 4,800 | 6,600                   |        |       |       |                         |        |       |       |
| 55     | 6,200                  | 6,000  | 5,600 | 4,800 | 6,200                   | 5,800  |       |       |                         |        |       |       |
| 60     | 6,000                  | 5,800  | 5,400 | 4,800 | 6,000                   | 5,800  | 4,800 |       |                         |        |       |       |
| 65     | 5,800                  | 5,800  | 5,200 | 4,800 | 5,800                   | 5,600  | 4,800 |       |                         |        |       |       |
| 70     | 5,600                  | 5,600  | 5,200 | 4,600 | 5,600                   | 5,400  | 4,800 | 4,600 | 5,600                   | 5,400  |       |       |
| 75     | 5,400                  | 5,400  | 5,000 | 4,600 | 5,400                   | 5,200  | 4,800 | 4,400 | 5,200                   | 5,000  | 4,800 |       |
| 80     | 5,200                  | 5,200  | 4,800 | 4,400 | 5,000                   | 5,000  | 4,600 | 4,200 | 5,000                   | 4,800  | 4,600 | 4,200 |
| 85     | 5,000                  | 5,000  | 4,600 | 4,200 | 4,800                   | 4,800  | 4,400 | 4,200 | 4,800                   | 4,600  | 4,400 | 4,000 |
| 90     | 4,800                  | 4,800  | 4,600 | 4,200 | 4,600                   | 4,600  | 4,400 | 4,000 | 4,600                   | 4,400  | 4,200 | 4,000 |
| 95     | 4,400                  | 4,400  | 4,400 | 4,000 | 4,400                   | 4,400  | 4,200 | 3,800 | 4,400                   | 4,400  | 4,200 | 3,800 |
| 100    | 4,200                  | 4,200  | 4,200 | 3,800 | 4,200                   | 4,200  | 4,000 | 3,800 | 4,200                   | 4,200  | 4,000 | 3,800 |
| 105    | 4,000                  | 4,200  | 4,000 | 3,800 | 4,000                   | 4,000  | 3,800 | 3,600 | 4,000                   | 4,000  | 3,800 | 3,600 |
| 110    | 4,000                  | 4,000  | 4,000 | 3,600 | 3,800                   | 3,800  | 3,800 | 3,600 | 3,800                   | 3,800  | 3,800 | 3,600 |
| 115    | 3,800                  | 3,800  | 3,800 | 3,600 | 3,600                   | 3,800  | 3,600 | 3,400 | 3,600                   | 3,600  | 3,600 | 3,400 |
| 120    | 3,600                  | 3,600  | 3,600 | 3,400 | 3,400                   | 3,600  | 3,400 | 3,400 | 3,400                   | 3,600  | 3,400 | 3,200 |
| 125    | 3,400                  | 3,400  | 3,400 | 3,400 | 3,400                   | 3,400  | 3,400 | 3,200 | 3,400                   | 3,400  | 3,400 | 3,200 |
| 130    | 3,200                  | 3,200  | 3,200 | 3,200 | 3,200                   | 3,200  | 3,200 | 3,200 | 3,200                   | 3,200  | 3,200 | 3,000 |
| 135    | 3,000                  | 3,200  | 3,200 | 3,000 | 3,000                   | 3,200  | 3,200 | 3,000 | 3,000                   | 3,200  | 3,200 | 3,000 |
| 140    | 3,000                  | 3,000  | 3,000 | 3,000 | 2,800                   | 3,000  | 3,000 | 3,000 | 3,000                   | 3,000  | 3,000 | 3,000 |
| 145    | 2,800                  | 3,000  | 3,000 | 2,800 | 2,800                   | 2,800  | 3,000 | 2,800 | 2,800                   | 2,800  | 3,000 | 2,800 |
| 150    | 2,600                  | 2,800  | 2,800 | 2,800 | 2,600                   | 2,800  | 2,800 | 2,800 | 2,600                   | 2,800  | 2,800 | 2,800 |
| 155    | 2,400                  | 2,600  | 2,800 | 2,800 | 2,400                   | 2,600  | 2,600 | 2,600 | 2,600                   | 2,600  | 2,800 | 2,600 |
| 160    | 2,400                  | 2,400  | 2,600 | 2,600 | 2,400                   | 2,600  | 2,600 | 2,600 | 2,400                   | 2,600  | 2,600 | 2,600 |
| 165    | 2,200                  | 2,400  | 2,400 | 2,600 | 2,200                   | 2,400  | 2,400 | 2,400 | 2,200                   | 2,400  | 2,600 | 2,400 |
| 170    | 2,000                  | 2,200  | 2,400 | 2,400 | 2,200                   | 2,200  | 2,400 | 2,400 | 2,200                   | 2,400  | 2,400 | 2,400 |
| 175    |                        | 2,200  | 2,200 | 2,400 |                         | 2,200  | 2,200 | 2,400 | 2,000                   | 2,200  | 2,400 | 2,400 |
| 180    |                        | 2,000  | 2,200 | 2,200 |                         | 2,000  | 2,200 | 2,200 |                         | 2,200  | 2,200 | 2,200 |
| 185    |                        |        |       | 2,200 |                         |        |       | 2,200 |                         |        | 2,200 | 2,200 |
| 190    |                        |        |       |       |                         |        |       |       |                         |        |       | 2,200 |
|        | T1 T2 T3 %             |        |       |       |                         |        |       |       |                         |        |       |       |
| T1     | 100/0                  | 100/0  | 100   | 100   | 100/0                   | 100/0  | 100   | 100   | 100/0                   | 100/0  | 100   | 100   |
| T2     | 25/75                  | 50/100 | 75    | 100   | 25/75                   | 50/100 | 75    | 100   | 25/75                   | 50/100 | 75    | 100   |
| T3     | 25/75                  | 50/100 | 75    | 100   | 25/75                   | 50/100 | 75    | 100   | 25/75                   | 50/100 | 75    | 100   |

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99 - 151 ft.  
(30.0 - 46.0 m)



53 ft.  
(16.0 m)



46,700 lbs.  
(21 200 kg)



100%



360°



85% Domestic (Pounds)

| (Feet) | 53' - 0° LATTICE EXT. |        |        |        | 53' - 16° LATTICE EXT. |        |        |        | 53' - 30° LATTICE EXT. |        |       |       |
|--------|-----------------------|--------|--------|--------|------------------------|--------|--------|--------|------------------------|--------|-------|-------|
|        | 99                    | 116    | 133    | 151    | 99                     | 116    | 133    | 151    | 99                     | 116    | 133   | 151   |
| 25     | 15,400                |        |        |        |                        |        |        |        |                        |        |       |       |
| 30     | 15,400                | 15,400 | 14,800 |        |                        |        |        |        |                        |        |       |       |
| 35     | 15,400                | 15,400 | 14,600 |        |                        |        |        |        |                        |        |       |       |
| 40     | 14,800                | 15,200 | 14,000 | 13,400 | 10,800                 | 11,000 |        |        |                        |        |       |       |
| 45     | 13,400                | 14,000 | 13,600 | 13,000 | 10,200                 | 10,400 | 10,400 |        |                        |        |       |       |
| 50     | 12,600                | 13,000 | 13,200 | 12,600 | 9,800                  | 10,000 | 10,000 | 10,000 | 8,200                  | 8,400  |       |       |
| 55     | 11,800                | 12,400 | 12,600 | 12,200 | 9,200                  | 9,600  | 9,600  | 9,600  | 7,800                  | 8,000  | 8,000 |       |
| 60     | 11,000                | 11,600 | 12,000 | 11,800 | 8,800                  | 9,200  | 9,200  | 9,400  | 7,600                  | 7,800  | 7,800 | 7,800 |
| 65     | 10,400                | 11,000 | 11,400 | 11,400 | 8,400                  | 8,800  | 9,000  | 9,000  | 7,400                  | 7,600  | 7,600 | 7,600 |
| 70     | 9,800                 | 10,400 | 10,800 | 11,000 | 8,000                  | 8,400  | 8,600  | 8,800  | 7,200                  | 7,400  | 7,400 | 7,400 |
| 75     | 9,400                 | 10,000 | 10,400 | 10,600 | 7,800                  | 8,200  | 8,400  | 8,400  | 6,800                  | 7,200  | 7,200 | 7,200 |
| 80     | 8,800                 | 9,400  | 9,800  | 10,000 | 7,400                  | 7,800  | 8,000  | 8,200  | 6,600                  | 7,000  | 7,000 | 7,200 |
| 85     | 8,400                 | 9,000  | 9,400  | 9,800  | 7,200                  | 7,600  | 7,800  | 8,000  | 6,400                  | 6,800  | 6,800 | 7,000 |
| 90     | 8,000                 | 8,600  | 9,200  | 9,400  | 7,000                  | 7,400  | 7,600  | 7,800  | 6,400                  | 6,600  | 6,800 | 6,800 |
| 95     | 7,600                 | 8,200  | 8,800  | 9,000  | 6,800                  | 7,000  | 7,400  | 7,400  | 6,200                  | 6,400  | 6,600 | 6,600 |
| 100    | 7,400                 | 8,000  | 8,400  | 8,800  | 6,400                  | 6,800  | 7,200  | 7,200  | 6,000                  | 6,200  | 6,400 | 6,600 |
| 105    | 7,000                 | 7,600  | 8,200  | 8,400  | 6,400                  | 6,600  | 7,000  | 7,200  | 6,000                  | 6,200  | 6,400 | 6,400 |
| 110    | 6,800                 | 7,400  | 7,800  | 8,200  | 6,200                  | 6,600  | 6,800  | 7,000  | 5,800                  | 6,000  | 6,200 | 6,400 |
| 115    | 6,600                 | 7,200  | 7,600  | 8,000  | 6,000                  | 6,400  | 6,600  | 6,800  | 5,800                  | 6,000  | 6,000 | 6,200 |
| 120    | 6,400                 | 7,000  | 7,400  | 7,600  | 5,800                  | 6,200  | 6,400  | 6,600  | 5,800                  | 5,800  | 6,000 | 6,000 |
| 125    | 6,000                 | 6,600  | 7,000  | 7,400  | 5,800                  | 6,000  | 6,200  | 6,400  |                        | 5,800  | 5,800 | 6,000 |
| 130    | 5,800                 | 6,400  | 6,800  | 7,200  | 5,600                  | 5,800  | 6,200  | 6,400  |                        | 5,600  | 5,800 | 5,800 |
| 135    | 5,600                 | 6,200  | 6,200  | 6,400  | 5,600                  | 5,800  | 6,000  | 6,200  |                        | 5,600  | 5,800 | 5,800 |
| 140    |                       | 6,000  | 5,400  | 5,600  |                        | 5,600  | 6,000  | 6,000  |                        |        | 5,800 | 5,800 |
| 145    |                       | 5,800  | 4,800  | 4,800  |                        | 5,600  | 5,400  | 5,600  |                        |        | 5,600 | 5,800 |
| 150    |                       | 5,800  | 4,000  | 4,200  |                        | 5,600  | 4,600  | 4,800  |                        |        | 4,800 | 5,200 |
| 155    |                       |        | 3,400  | 3,600  |                        |        | 4,000  | 4,200  |                        |        |       | 4,600 |
| 160    |                       |        | 2,800  | 3,000  |                        |        | 3,200  | 3,600  |                        |        |       | 3,800 |
| 165    |                       |        | 2,400  | 2,400  |                        |        | 2,600  | 3,000  |                        |        |       |       |
| 170    |                       |        |        | 2,000  |                        |        | 2,000  | 2,400  |                        |        |       |       |
|        | %                     |        |        |        |                        |        |        |        |                        |        |       |       |
| T1     | 100/0                 | 100/0  | 100    | 100    | 100/0                  | 100/0  | 100    | 100    | 100/0                  | 100/0  | 100   | 100   |
| T2     | 25/75                 | 50/100 | 75     | 100    | 25/75                  | 50/100 | 75     | 100    | 25/75                  | 50/100 | 75    | 100   |
| T3     | 25/75                 | 50/100 | 75     | 100    | 25/75                  | 50/100 | 75     | 100    | 25/75                  | 50/100 | 75    | 100   |

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99 - 151 ft.  
(30.0 - 46.0 m)



79 ft.  
(24.0 m)



46,700 lbs.  
(21 200 kg)



100%



360°



85% Domestic (Pounds)

| (Feet) | 79' - 0° LATTICE EXT. |        |        |        | 79' - 16° LATTICE EXT. |        |       |       | 79' - 30° LATTICE EXT. |        |       |       |
|--------|-----------------------|--------|--------|--------|------------------------|--------|-------|-------|------------------------|--------|-------|-------|
|        | 99                    | 116    | 133    | 151    | 99                     | 116    | 133   | 151   | 99                     | 116    | 133   | 151   |
| 30     | 15,400                |        |        |        |                        |        |       |       |                        |        |       |       |
| 35     | 15,000                | 13,800 |        |        |                        |        |       |       |                        |        |       |       |
| 40     | 14,600                | 13,600 | 11,800 |        | 10,600                 |        |       |       |                        |        |       |       |
| 45     | 14,000                | 13,600 | 11,800 | 10,000 | 10,200                 |        |       |       |                        |        |       |       |
| 50     | 13,200                | 13,200 | 11,800 | 10,000 | 9,800                  | 9,800  | 9,600 |       | 8,000                  |        |       |       |
| 55     | 12,600                | 12,600 | 11,800 | 10,000 | 9,400                  | 9,600  | 9,400 | 9,200 | 7,600                  | 7,800  |       |       |
| 60     | 12,000                | 12,000 | 11,600 | 10,000 | 9,000                  | 9,200  | 9,000 | 9,000 | 7,400                  | 7,800  | 7,600 |       |
| 65     | 11,400                | 11,600 | 11,200 | 10,000 | 8,600                  | 9,000  | 8,800 | 9,000 | 7,200                  | 7,600  | 7,400 |       |
| 70     | 10,800                | 11,000 | 11,000 | 10,000 | 8,400                  | 8,600  | 8,600 | 8,800 | 7,000                  | 7,400  | 7,200 | 7,400 |
| 75     | 10,400                | 10,600 | 10,600 | 10,000 | 8,000                  | 8,400  | 8,400 | 8,600 | 7,000                  | 7,200  | 7,000 | 7,200 |
| 80     | 9,800                 | 10,200 | 10,200 | 9,800  | 7,800                  | 8,200  | 8,000 | 8,400 | 6,800                  | 7,000  | 6,800 | 7,200 |
| 85     | 9,400                 | 9,800  | 9,800  | 9,600  | 7,600                  | 8,000  | 7,800 | 8,200 | 6,600                  | 7,000  | 6,800 | 7,000 |
| 90     | 9,000                 | 9,400  | 9,600  | 9,400  | 7,400                  | 7,800  | 7,600 | 8,000 | 6,400                  | 6,800  | 6,600 | 7,000 |
| 95     | 8,600                 | 9,000  | 9,200  | 9,200  | 7,200                  | 7,600  | 7,400 | 7,800 | 6,400                  | 6,600  | 6,400 | 6,800 |
| 100    | 8,200                 | 8,600  | 9,000  | 9,000  | 7,000                  | 7,400  | 7,200 | 7,600 | 6,200                  | 6,600  | 6,400 | 6,600 |
| 105    | 8,000                 | 8,400  | 8,600  | 8,800  | 6,800                  | 7,200  | 7,200 | 7,400 | 6,200                  | 6,400  | 6,400 | 6,600 |
| 110    | 7,600                 | 8,000  | 8,400  | 8,400  | 6,600                  | 7,000  | 7,000 | 7,400 | 6,000                  | 6,400  | 6,200 | 6,600 |
| 115    | 7,400                 | 7,800  | 8,000  | 8,200  | 6,400                  | 6,800  | 6,800 | 7,200 | 6,000                  | 6,400  | 6,200 | 6,400 |
| 120    | 7,000                 | 7,600  | 7,800  | 8,000  | 6,400                  | 6,800  | 6,800 | 7,000 | 5,800                  | 6,200  | 6,000 | 6,400 |
| 125    | 6,800                 | 7,200  | 7,600  | 7,800  | 6,200                  | 6,600  | 6,600 | 7,000 | 5,800                  | 6,200  | 6,000 | 6,200 |
| 130    | 6,400                 | 7,000  | 7,200  | 7,400  | 6,000                  | 6,400  | 6,400 | 6,800 | 5,600                  | 6,000  | 5,800 | 6,200 |
| 135    | 6,200                 | 6,800  | 7,000  | 7,000  | 6,000                  | 6,200  | 6,400 | 6,600 | 5,600                  | 6,000  | 5,800 | 6,200 |
| 140    | 6,000                 | 6,400  | 6,200  | 6,200  | 5,800                  | 6,200  | 6,200 | 6,600 | 5,600                  | 5,800  | 5,800 | 6,000 |
| 145    | 5,800                 | 6,200  | 5,400  | 5,400  | 5,600                  | 6,000  | 6,200 | 6,200 |                        | 5,800  | 5,800 | 6,000 |
| 150    | 5,600                 | 6,000  | 4,800  | 4,800  | 5,600                  | 5,800  | 5,400 | 5,600 |                        | 5,600  | 5,600 | 6,000 |
| 155    | 5,400                 | 5,800  | 4,200  | 4,200  | 5,400                  | 5,600  | 4,800 | 4,800 |                        | 5,600  | 5,200 | 5,400 |
| 160    | 5,200                 | 5,600  | 3,600  | 3,600  |                        | 5,600  | 4,200 | 4,200 |                        |        | 4,400 | 4,600 |
| 165    |                       | 5,600  | 3,000  | 3,000  |                        | 5,400  | 3,600 | 3,600 |                        |        | 3,800 | 4,000 |
| 170    |                       | 5,400  | 2,600  | 2,600  |                        | 5,200  | 3,000 | 3,000 |                        |        | 3,200 | 3,400 |
| 175    |                       | 5,000  | 2,000  | 2,000  |                        | 5,200  | 2,400 | 2,600 |                        |        |       | 2,800 |
| 180    |                       |        |        |        |                        |        | 2,000 | 2,000 |                        |        |       | 2,200 |
|        | %                     |        |        |        |                        |        |       |       |                        |        |       |       |
| T1     | 100/0                 | 100/0  | 100    | 100    | 100/0                  | 100/0  | 100   | 100   | 100/0                  | 100/0  | 100   | 100   |
| T2     | 25/75                 | 50/100 | 75     | 100    | 25/75                  | 50/100 | 75    | 100   | 25/75                  | 50/100 | 75    | 100   |
| T3     | 25/75                 | 50/100 | 75     | 100    | 25/75                  | 50/100 | 75    | 100   | 25/75                  | 50/100 | 75    | 100   |

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99 - 151 ft.  
(30.0 - 46.0 m)



131 ft.  
(40.0 m)



46,700 lbs.  
(21 200 kg)



100%



360°



85% Domestic (Pounds)

| (Feet)     | 131' - 0° LATTICE EXT. |        |       |       | 131' - 16° LATTICE EXT. |        |       |       | 131' - 30° LATTICE EXT. |        |       |       |
|------------|------------------------|--------|-------|-------|-------------------------|--------|-------|-------|-------------------------|--------|-------|-------|
|            | 99                     | 116    | 133   | 151   | 99                      | 116    | 133   | 151   | 99                      | 116    | 133   | 151   |
| 40         | 6,400                  | 6,600  |       |       |                         |        |       |       |                         |        |       |       |
| 45         | 6,400                  | 6,400  | 5,800 |       |                         |        |       |       |                         |        |       |       |
| 50         | 6,400                  | 6,200  | 5,800 | 4,800 | 6,600                   |        |       |       |                         |        |       |       |
| 55         | 6,200                  | 6,000  | 5,600 | 4,800 | 6,200                   | 5,800  |       |       |                         |        |       |       |
| 60         | 6,000                  | 5,800  | 5,400 | 4,800 | 6,000                   | 5,800  | 4,800 |       |                         |        |       |       |
| 65         | 5,800                  | 5,800  | 5,200 | 4,800 | 5,800                   | 5,600  | 4,800 |       |                         |        |       |       |
| 70         | 5,600                  | 5,600  | 5,200 | 4,600 | 5,600                   | 5,400  | 4,800 | 4,600 | 5,600                   | 5,400  |       |       |
| 75         | 5,400                  | 5,400  | 5,000 | 4,600 | 5,400                   | 5,200  | 4,800 | 4,400 | 5,200                   | 5,000  | 4,800 |       |
| 80         | 5,200                  | 5,200  | 4,800 | 4,400 | 5,000                   | 5,000  | 4,600 | 4,200 | 5,000                   | 4,800  | 4,600 | 4,200 |
| 85         | 5,000                  | 5,000  | 4,600 | 4,200 | 4,800                   | 4,800  | 4,400 | 4,200 | 4,800                   | 4,600  | 4,400 | 4,000 |
| 90         | 4,800                  | 4,800  | 4,600 | 4,200 | 4,600                   | 4,600  | 4,400 | 4,000 | 4,600                   | 4,400  | 4,200 | 4,000 |
| 95         | 4,400                  | 4,400  | 4,400 | 4,000 | 4,400                   | 4,400  | 4,200 | 3,800 | 4,400                   | 4,400  | 4,200 | 3,800 |
| 100        | 4,200                  | 4,200  | 4,200 | 3,800 | 4,200                   | 4,200  | 4,000 | 3,800 | 4,200                   | 4,200  | 4,000 | 3,800 |
| 105        | 4,000                  | 4,200  | 4,000 | 3,800 | 4,000                   | 4,000  | 3,800 | 3,600 | 4,000                   | 4,000  | 3,800 | 3,600 |
| 110        | 4,000                  | 4,000  | 4,000 | 3,600 | 3,800                   | 3,800  | 3,800 | 3,600 | 3,800                   | 3,800  | 3,800 | 3,600 |
| 115        | 3,800                  | 3,800  | 3,800 | 3,600 | 3,600                   | 3,800  | 3,600 | 3,400 | 3,600                   | 3,600  | 3,600 | 3,400 |
| 120        | 3,600                  | 3,600  | 3,600 | 3,400 | 3,400                   | 3,600  | 3,400 | 3,400 | 3,400                   | 3,600  | 3,400 | 3,200 |
| 125        | 3,400                  | 3,400  | 3,400 | 3,400 | 3,400                   | 3,400  | 3,400 | 3,200 | 3,400                   | 3,400  | 3,400 | 3,200 |
| 130        | 3,200                  | 3,200  | 3,200 | 3,200 | 3,200                   | 3,200  | 3,200 | 3,200 | 3,200                   | 3,200  | 3,200 | 3,000 |
| 135        | 3,000                  | 3,200  | 3,200 | 3,000 | 3,000                   | 3,200  | 3,200 | 3,000 | 3,000                   | 3,200  | 3,200 | 3,000 |
| 140        | 3,000                  | 3,000  | 3,000 | 3,000 | 2,800                   | 3,000  | 3,000 | 3,000 | 3,000                   | 3,000  | 3,000 | 3,000 |
| 145        | 2,800                  | 3,000  | 3,000 | 2,800 | 2,800                   | 2,800  | 3,000 | 2,800 | 2,800                   | 2,800  | 3,000 | 2,800 |
| 150        | 2,600                  | 2,800  | 2,800 | 2,800 | 2,600                   | 2,800  | 2,800 | 2,800 | 2,600                   | 2,800  | 2,800 | 2,800 |
| 155        | 2,400                  | 2,600  | 2,800 | 2,800 | 2,400                   | 2,600  | 2,600 | 2,600 | 2,600                   | 2,600  | 2,800 | 2,600 |
| 160        | 2,400                  | 2,400  | 2,600 | 2,600 | 2,400                   | 2,600  | 2,600 | 2,600 | 2,400                   | 2,600  | 2,600 | 2,600 |
| 165        | 2,200                  | 2,400  | 2,400 | 2,600 | 2,200                   | 2,400  | 2,400 | 2,400 | 2,200                   | 2,400  | 2,600 | 2,400 |
| 170        | 2,000                  | 2,200  | 2,400 | 2,400 | 2,200                   | 2,200  | 2,400 | 2,400 | 2,200                   | 2,400  | 2,400 | 2,400 |
| 175        |                        | 2,200  | 2,200 | 2,400 |                         | 2,200  | 2,200 | 2,400 | 2,000                   | 2,200  | 2,400 | 2,400 |
| 180        |                        | 2,000  | 2,200 | 2,000 |                         | 2,000  | 2,200 | 2,200 |                         | 2,200  | 2,200 | 2,200 |
| 185        |                        |        |       |       |                         |        |       | 2,200 |                         |        | 2,200 | 2,200 |
| 190        |                        |        |       |       |                         |        |       |       |                         |        |       | 2,200 |
|            |                        |        |       |       |                         |        |       |       |                         |        |       |       |
| T1 T2 T3 % |                        |        |       |       |                         |        |       |       |                         |        |       |       |
| T1         | 100/0                  | 100/0  | 100   | 100   | 100/0                   | 100/0  | 100   | 100   | 100/0                   | 100/0  | 100   | 100   |
| T2         | 25/75                  | 50/100 | 75    | 100   | 25/75                   | 50/100 | 75    | 100   | 25/75                   | 50/100 | 75    | 100   |
| T3         | 25/75                  | 50/100 | 75    | 100   | 25/75                   | 50/100 | 75    | 100   | 25/75                   | 50/100 | 75    | 100   |

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99 - 151 ft.  
(30.0 - 46.0 m)



33 ft.  
(10.0 m)



28,000 lbs.  
(12 700 kg)



100%



360°



85% Domestic (Pounds)

| (Feet)     | 33' - 0° LATTICE EXT. |        |        |        | 33' - 16° LATTICE EXT. |        |        |        | 33' - 30° LATTICE EXT. |        |        |        |
|------------|-----------------------|--------|--------|--------|------------------------|--------|--------|--------|------------------------|--------|--------|--------|
|            | 99                    | 116    | 133    | 151    | 99                     | 116    | 133    | 151    | 99                     | 116    | 133    | 151    |
| 20         | 30,800                |        |        |        |                        |        |        |        |                        |        |        |        |
| 25         | 29,400                | 28,600 |        |        |                        |        |        |        |                        |        |        |        |
| 30         | 26,800                | 27,000 | 24,000 | 20,600 | 19,200                 | 19,600 |        |        |                        |        |        |        |
| 35         | 24,600                | 25,200 | 23,800 | 20,600 | 18,200                 | 18,400 | 18,400 |        | 14,200                 |        |        |        |
| 40         | 22,600                | 23,400 | 23,200 | 20,600 | 17,000                 | 17,600 | 17,600 | 17,200 | 13,600                 | 13,800 | 13,800 |        |
| 45         | 21,000                | 21,800 | 22,000 | 20,600 | 16,200                 | 16,600 | 16,800 | 16,600 | 13,200                 | 13,400 | 13,400 | 13,200 |
| 50         | 19,400                | 20,600 | 20,800 | 20,000 | 15,000                 | 16,000 | 16,200 | 16,000 | 12,600                 | 13,000 | 13,000 | 13,000 |
| 55         | 18,200                | 19,400 | 19,800 | 19,400 | 14,000                 | 15,200 | 15,400 | 15,400 | 12,200                 | 12,600 | 12,800 | 12,600 |
| 60         | 17,200                | 18,200 | 18,800 | 18,600 | 13,400                 | 14,400 | 14,600 | 14,600 | 11,800                 | 12,200 | 12,400 | 12,400 |
| 65         | 16,000                | 17,200 | 17,800 | 18,000 | 12,800                 | 13,600 | 13,800 | 14,000 | 11,400                 | 11,800 | 12,000 | 12,000 |
| 70         | 15,200                | 16,200 | 17,000 | 17,200 | 12,400                 | 13,000 | 13,400 | 13,600 | 11,200                 | 11,600 | 11,800 | 11,800 |
| 75         | 14,200                | 15,400 | 16,400 | 16,600 | 12,000                 | 12,600 | 13,000 | 13,200 | 10,800                 | 11,200 | 11,600 | 11,600 |
| 80         | 13,200                | 14,400 | 15,000 | 15,400 | 11,400                 | 12,000 | 12,600 | 12,800 | 10,600                 | 11,000 | 11,200 | 11,400 |
| 85         | 12,400                | 13,400 | 13,000 | 13,400 | 11,000                 | 11,800 | 12,200 | 12,400 | 10,400                 | 10,800 | 11,000 | 11,200 |
| 90         | 11,800                | 12,800 | 11,200 | 11,600 | 10,800                 | 11,400 | 11,800 | 12,000 | 10,200                 | 10,400 | 10,800 | 11,000 |
| 95         | 11,400                | 12,400 | 9,600  | 10,000 | 10,400                 | 10,800 | 10,400 | 10,800 | 9,800                  | 10,200 | 10,600 | 10,800 |
| 100        | 10,800                | 11,800 | 8,200  | 8,600  | 10,000                 | 10,600 | 9,000  | 9,400  | 9,800                  | 10,000 | 9,400  | 10,000 |
| 105        | 10,600                | 10,600 | 6,800  | 7,200  | 10,000                 | 10,400 | 7,600  | 8,000  |                        | 10,000 | 8,000  | 8,600  |
| 110        | 9,400                 | 9,400  | 5,800  | 6,200  | 9,800                  | 10,000 | 6,400  | 6,800  |                        | 9,800  | 6,800  | 7,400  |
| 115        | 8,400                 | 8,400  | 4,800  | 5,200  | 8,600                  | 8,800  | 5,400  | 5,800  |                        | 9,000  | 5,800  | 6,200  |
| 120        |                       | 7,600  | 3,800  | 4,200  |                        | 7,800  | 4,400  | 4,800  |                        |        | 4,600  | 5,200  |
| 125        |                       | 6,600  | 3,000  | 3,400  |                        | 6,800  | 3,400  | 4,000  |                        |        | 3,800  | 4,200  |
| 130        |                       | 5,800  | 2,200  | 2,600  |                        | 6,000  | 2,600  | 3,200  |                        |        | 2,800  | 3,400  |
| 135        |                       |        | 2,000  |        |                        |        | 2,000  | 2,400  |                        |        |        | 2,600  |
| T1 T2 T3 % |                       |        |        |        |                        |        |        |        |                        |        |        |        |
| T1         | 100/0                 | 100/0  | 100    | 100    | 100/0                  | 100/0  | 100    | 100    | 100/0                  | 100/0  | 100    | 100    |
| T2         | 25/75                 | 50/100 | 75     | 100    | 25/75                  | 50/100 | 75     | 100    | 25/75                  | 50/100 | 75     | 100    |
| T3         | 25/75                 | 50/100 | 75     | 100    | 25/75                  | 50/100 | 75     | 100    | 25/75                  | 50/100 | 75     | 100    |

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99 - 151 ft.  
(30.0 - 46.0 m)



53 ft.  
(16.0 m)



28,000 lbs.  
(12 700 kg)



100%



360°



85% Domestic (Pounds)

| (Feet) | 53' - 0° LATTICE EXT. |        |        |        | 53' - 16° LATTICE EXT. |        |        |        | 53' - 30° LATTICE EXT. |        |       |       |
|--------|-----------------------|--------|--------|--------|------------------------|--------|--------|--------|------------------------|--------|-------|-------|
|        | 99                    | 116    | 133    | 151    | 99                     | 116    | 133    | 151    | 99                     | 116    | 133   | 151   |
| 20     |                       |        |        |        |                        |        |        |        |                        |        |       |       |
| 25     | 15,400                |        |        |        |                        |        |        |        |                        |        |       |       |
| 30     | 15,400                | 15,400 | 14,800 |        |                        |        |        |        |                        |        |       |       |
| 35     | 15,400                | 15,400 | 14,600 |        |                        |        |        |        |                        |        |       |       |
| 40     | 14,800                | 15,200 | 14,000 | 13,400 | 10,800                 | 11,000 |        |        |                        |        |       |       |
| 45     | 13,400                | 14,000 | 13,600 | 13,000 | 10,200                 | 10,400 | 10,400 |        |                        |        |       |       |
| 50     | 12,600                | 13,000 | 13,200 | 12,600 | 9,800                  | 10,000 | 10,000 | 10,000 | 8,200                  | 8,400  |       |       |
| 55     | 11,800                | 12,400 | 12,600 | 12,200 | 9,200                  | 9,600  | 9,600  | 9,600  | 7,800                  | 8,000  | 8,000 |       |
| 60     | 11,000                | 11,600 | 12,000 | 11,800 | 8,800                  | 9,200  | 9,200  | 9,400  | 7,600                  | 7,800  | 7,800 | 7,800 |
| 65     | 10,400                | 11,000 | 11,400 | 11,400 | 8,400                  | 8,800  | 9,000  | 9,000  | 7,400                  | 7,600  | 7,600 | 7,600 |
| 70     | 9,800                 | 10,400 | 10,800 | 11,000 | 8,000                  | 8,400  | 8,600  | 8,800  | 7,200                  | 7,400  | 7,400 | 7,400 |
| 75     | 9,400                 | 10,000 | 10,400 | 10,600 | 7,800                  | 8,200  | 8,400  | 8,400  | 6,800                  | 7,200  | 7,200 | 7,200 |
| 80     | 8,800                 | 9,400  | 9,800  | 10,000 | 7,400                  | 7,800  | 8,000  | 8,200  | 6,600                  | 7,000  | 7,000 | 7,200 |
| 85     | 8,400                 | 9,000  | 9,400  | 9,800  | 7,200                  | 7,600  | 7,800  | 8,000  | 6,400                  | 6,800  | 6,800 | 7,000 |
| 90     | 8,000                 | 8,600  | 9,200  | 9,400  | 7,000                  | 7,400  | 7,600  | 7,800  | 6,400                  | 6,600  | 6,800 | 6,800 |
| 95     | 7,600                 | 8,200  | 8,800  | 9,000  | 6,800                  | 7,000  | 7,400  | 7,400  | 6,200                  | 6,400  | 6,600 | 6,600 |
| 100    | 7,400                 | 8,000  | 8,400  | 8,800  | 6,400                  | 6,800  | 7,200  | 7,200  | 6,000                  | 6,200  | 6,400 | 6,600 |
| 105    | 7,000                 | 7,600  | 8,200  | 8,400  | 6,400                  | 6,600  | 7,000  | 7,200  | 6,000                  | 6,200  | 6,400 | 6,400 |
| 110    | 6,800                 | 7,400  | 7,200  | 7,400  | 6,200                  | 6,600  | 6,800  | 7,000  | 5,800                  | 6,000  | 6,200 | 6,400 |
| 115    | 6,600                 | 7,000  | 6,200  | 6,400  | 6,000                  | 6,400  | 6,600  | 6,800  | 5,800                  | 6,000  | 6,000 | 6,200 |
| 120    | 6,200                 | 6,800  | 5,200  | 5,400  | 5,800                  | 6,200  | 6,200  | 6,600  | 5,800                  | 5,800  | 6,000 | 6,000 |
| 125    | 6,000                 | 6,600  | 4,400  | 4,600  | 5,800                  | 6,000  | 5,400  | 5,600  |                        | 5,800  | 5,800 | 6,000 |
| 130    | 5,800                 | 6,400  | 3,600  | 3,800  | 5,600                  | 5,800  | 4,600  | 4,800  |                        | 5,600  | 5,000 | 5,400 |
| 135    | 5,600                 | 6,200  | 3,000  | 3,200  | 5,600                  | 5,800  | 3,800  | 4,000  |                        | 5,600  | 4,200 | 4,600 |
| 140    |                       | 5,600  | 2,400  | 2,400  |                        | 5,600  | 3,000  | 3,200  |                        |        | 3,400 | 3,800 |
| 145    |                       | 5,000  |        |        |                        | 5,400  | 2,400  | 2,600  |                        |        | 2,600 | 3,000 |
| 150    |                       | 4,400  |        |        |                        | 4,600  |        | 2,000  |                        |        | 2,000 | 2,400 |
| 155    |                       |        |        |        |                        |        |        |        |                        |        |       |       |
|        |                       |        |        |        |                        |        |        |        |                        |        |       |       |
| T1     | 100/0                 | 100/0  | 100    | 100    | 100/0                  | 100/0  | 100    | 100    | 100/0                  | 100/0  | 100   | 100   |
| T2     | 25/75                 | 50/100 | 75     | 100    | 25/75                  | 50/100 | 75     | 100    | 25/75                  | 50/100 | 75    | 100   |
| T3     | 25/75                 | 50/100 | 75     | 100    | 25/75                  | 50/100 | 75     | 100    | 25/75                  | 50/100 | 75    | 100   |

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99 - 151 ft.  
(30.0 - 46.0 m)



105 ft.  
(32.0 m)



28,000 lbs.  
(12 700 kg)




100%



360°



85% Domestic (Pounds)

| (Feet)  | 105' - 0° LATTICE EXT. |        |       |       | 105' - 16° LATTICE EXT. |        |       |       | 105' - 30° LATTICE EXT. |        |       |       |
|---|------------------------|--------|-------|-------|-------------------------|--------|-------|-------|-------------------------|--------|-------|-------|
|   | 99                     | 116    | 133   | 151   | 99                      | 116    | 133   | 151   | 99                      | 116    | 133   | 151   |
| 35  | 10,800                 |        |       |       |                         |        |       |       |                         |        |       |       |
| 40  | 10,400                 | 10,200 |       |       |                         |        |       |       |                         |        |       |       |
| 45  | 10,000                 | 9,800  | 8,600 |       |                         |        |       |       |                         |        |       |       |
| 50  | 9,800                  | 9,400  | 8,600 | 7,000 | 9,400                   | 8,800  |       |       |                         |        |       |       |
| 55  | 9,400                  | 9,200  | 8,600 | 7,000 | 9,000                   | 8,600  | 8,000 |       |                         |        |       |       |
| 60  | 9,000                  | 8,800  | 8,200 | 7,000 | 8,600                   | 8,200  | 7,800 | 7,000 | 7,400                   |        |       |       |
| 65  | 8,600                  | 8,400  | 8,000 | 7,000 | 8,200                   | 7,800  | 7,400 | 7,000 | 7,400                   |        |       |       |
| 70  | 8,200                  | 8,200  | 7,800 | 7,000 | 7,800                   | 7,600  | 7,200 | 6,800 | 7,200                   | 7,200  | 7,000 |       |
| 75  | 7,800                  | 7,800  | 7,400 | 7,000 | 7,400                   | 7,200  | 7,000 | 6,600 | 6,800                   | 7,000  | 6,800 | 6,400 |
| 80  | 7,400                  | 7,400  | 7,200 | 6,800 | 7,000                   | 7,000  | 6,800 | 6,400 | 6,600                   | 6,800  | 6,600 | 6,200 |
| 85  | 7,200                  | 7,200  | 7,000 | 6,600 | 6,800                   | 6,800  | 6,600 | 6,200 | 6,400                   | 6,400  | 6,400 | 6,000 |
| 90  | 6,800                  | 6,800  | 6,800 | 6,400 | 6,400                   | 6,400  | 6,400 | 6,000 | 6,200                   | 6,200  | 6,200 | 5,800 |
| 95  | 6,400                  | 6,600  | 6,600 | 6,200 | 6,200                   | 6,200  | 6,200 | 5,800 | 5,800                   | 6,000  | 6,000 | 5,600 |
| 100   | 6,200                  | 6,400  | 6,200 | 6,000 | 5,800                   | 6,000  | 6,000 | 5,800 | 5,600                   | 5,800  | 5,800 | 5,600 |
| 105   | 6,000                  | 6,200  | 6,200 | 6,000 | 5,600                   | 5,800  | 5,800 | 5,600 | 5,400                   | 5,600  | 5,600 | 5,400 |
| 110   | 5,600                  | 6,000  | 6,000 | 5,800 | 5,400                   | 5,600  | 5,600 | 5,400 | 5,200                   | 5,400  | 5,400 | 5,200 |
| 115   | 5,400                  | 5,800  | 5,800 | 5,600 | 5,200                   | 5,400  | 5,400 | 5,400 | 5,000                   | 5,200  | 5,200 | 5,200 |
| 120   | 5,200                  | 5,400  | 5,600 | 5,400 | 5,000                   | 5,200  | 5,200 | 5,200 | 4,800                   | 5,000  | 5,200 | 5,000 |
| 125   | 5,000                  | 5,200  | 5,400 | 5,200 | 4,800                   | 5,000  | 5,000 | 5,000 | 4,600                   | 4,800  | 5,000 | 5,000 |
| 130   | 4,600                  | 5,000  | 5,000 | 4,800 | 4,600                   | 4,800  | 5,000 | 4,800 | 4,400                   | 4,600  | 4,800 | 4,800 |
| 135   | 4,400                  | 4,800  | 4,200 | 4,200 | 4,400                   | 4,600  | 4,800 | 4,800 | 4,400                   | 4,600  | 4,600 | 4,600 |
| 140   | 4,200                  | 4,600  | 3,600 | 3,400 | 4,200                   | 4,400  | 4,400 | 4,400 | 4,200                   | 4,400  | 4,600 | 4,600 |
| 145   | 4,200                  | 4,400  | 3,000 | 2,800 | 4,000                   | 4,200  | 3,800 | 3,600 | 4,000                   | 4,200  | 4,400 | 4,200 |
| 150   | 4,000                  | 4,200  | 2,400 | 2,200 | 3,800                   | 4,200  | 3,200 | 3,000 | 3,800                   | 4,000  | 3,600 | 3,600 |
| 155   | 3,800                  | 4,000  |       |       | 3,800                   | 4,000  | 2,600 | 2,400 | 3,800                   | 4,000  | 3,000 | 3,000 |
| 160   | 3,600                  | 4,000  |       |       | 3,600                   | 3,800  | 2,000 | 2,000 | 3,600                   | 3,800  | 2,400 | 2,400 |
| 165   | 3,400                  | 3,600  |       |       | 3,400                   | 3,800  |       |       | 3,400                   | 3,800  | 1,800 |       |
| 170   | 3,400                  | 3,200  |       |       | 3,400                   | 3,600  |       |       | 3,400                   | 3,600  |       |       |
| 175   | 3,200                  | 2,800  |       |       | 3,200                   | 3,200  |       |       |                         | 3,400  |       |       |
| 180   | 2,800                  | 2,400  |       |       | 3,000                   | 2,800  |       |       |                         | 2,800  |       |       |
| 185   |                        | 2,000  |       |       |                         |        |       |       |                         |        |       |       |
| 190   |                        |        |       |       |                         | 2,000  |       |       |                         |        |       |       |
|  % |                        |        |       |       |                         |        |       |       |                         |        |       |       |
| T1  | 100/0                  | 100/0  | 100   | 100   | 100/0                   | 100/0  | 100   | 100   | 100/0                   | 100/0  | 100   | 100   |
| T2  | 25/75                  | 50/100 | 75    | 100   | 25/75                   | 50/100 | 75    | 100   | 25/75                   | 50/100 | 75    | 100   |
| T3  | 25/75                  | 50/100 | 75    | 100   | 25/75                   | 50/100 | 75    | 100   | 25/75                   | 50/100 | 75    | 100   |

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99 - 151 ft.  
(30.0 - 46.0 m)



131 ft.  
(40.0 m)



28,000 lbs.  
(12 700 kg)



100%



360°



85% Domestic (Pounds)

| (Feet) | 131' - 0° LATTICE EXT. |        |       |       | 131' - 16° LATTICE EXT. |        |       |       | 131' - 30° LATTICE EXT. |        |       |       |
|--------|------------------------|--------|-------|-------|-------------------------|--------|-------|-------|-------------------------|--------|-------|-------|
|        | 99                     | 116    | 133   | 151   | 99                      | 116    | 133   | 151   | 99                      | 116    | 133   | 151   |
| 40     | 6,400                  | 6,600  |       |       |                         |        |       |       |                         |        |       |       |
| 45     | 6,400                  | 6,400  | 5,800 |       |                         |        |       |       |                         |        |       |       |
| 50     | 6,400                  | 6,200  | 5,800 | 4,800 | 6,600                   |        |       |       |                         |        |       |       |
| 55     | 6,200                  | 6,000  | 5,600 | 4,800 | 6,200                   | 5,800  |       |       |                         |        |       |       |
| 60     | 6,000                  | 5,800  | 5,400 | 4,800 | 6,000                   | 5,800  | 4,800 |       |                         |        |       |       |
| 65     | 5,800                  | 5,800  | 5,200 | 4,800 | 5,800                   | 5,600  | 4,800 |       |                         |        |       |       |
| 70     | 5,600                  | 5,600  | 5,200 | 4,600 | 5,600                   | 5,400  | 4,800 | 4,600 | 5,600                   | 5,400  |       |       |
| 75     | 5,400                  | 5,400  | 5,000 | 4,600 | 5,400                   | 5,200  | 4,800 | 4,400 | 5,200                   | 5,000  | 4,800 |       |
| 80     | 5,200                  | 5,200  | 4,800 | 4,400 | 5,000                   | 5,000  | 4,600 | 4,200 | 5,000                   | 4,800  | 4,600 | 4,200 |
| 85     | 5,000                  | 5,000  | 4,600 | 4,200 | 4,800                   | 4,800  | 4,400 | 4,200 | 4,800                   | 4,600  | 4,400 | 4,000 |
| 90     | 4,800                  | 4,800  | 4,600 | 4,200 | 4,600                   | 4,600  | 4,400 | 4,000 | 4,600                   | 4,400  | 4,200 | 4,000 |
| 95     | 4,400                  | 4,400  | 4,400 | 4,000 | 4,400                   | 4,400  | 4,200 | 3,800 | 4,400                   | 4,400  | 4,200 | 3,800 |
| 100    | 4,200                  | 4,200  | 4,200 | 3,800 | 4,200                   | 4,200  | 4,000 | 3,800 | 4,200                   | 4,200  | 4,000 | 3,800 |
| 105    | 4,000                  | 4,200  | 4,000 | 3,800 | 4,000                   | 4,000  | 3,800 | 3,600 | 4,000                   | 4,000  | 3,800 | 3,600 |
| 110    | 4,000                  | 4,000  | 4,000 | 3,600 | 3,800                   | 3,800  | 3,800 | 3,600 | 3,800                   | 3,800  | 3,800 | 3,600 |
| 115    | 3,800                  | 3,800  | 3,800 | 3,600 | 3,600                   | 3,800  | 3,600 | 3,400 | 3,600                   | 3,600  | 3,600 | 3,400 |
| 120    | 3,600                  | 3,600  | 3,600 | 3,400 | 3,400                   | 3,600  | 3,400 | 3,400 | 3,400                   | 3,600  | 3,400 | 3,200 |
| 125    | 3,400                  | 3,400  | 3,400 | 3,400 | 3,400                   | 3,400  | 3,400 | 3,200 | 3,400                   | 3,400  | 3,400 | 3,200 |
| 130    | 3,200                  | 3,200  | 3,200 | 3,200 | 3,200                   | 3,200  | 3,200 | 3,200 | 3,200                   | 3,200  | 3,200 | 3,000 |
| 135    | 3,000                  | 3,200  | 3,200 | 3,000 | 3,000                   | 3,200  | 3,200 | 3,000 | 3,000                   | 3,200  | 3,200 | 3,000 |
| 140    | 3,000                  | 3,000  | 3,000 | 3,000 | 2,800                   | 3,000  | 3,000 | 3,000 | 3,000                   | 3,000  | 3,000 | 3,000 |
| 145    | 2,800                  | 3,000  | 3,000 | 2,800 | 2,800                   | 2,800  | 3,000 | 2,800 | 2,800                   | 2,800  | 3,000 | 2,800 |
| 150    | 2,600                  | 2,800  | 2,600 | 2,400 | 2,600                   | 2,800  | 2,800 | 2,800 | 2,600                   | 2,800  | 2,800 | 2,800 |
| 155    | 2,400                  | 2,600  | 2,200 |       | 2,400                   | 2,600  | 2,600 | 2,600 | 2,600                   | 2,600  | 2,800 | 2,600 |
| 160    | 2,400                  | 2,400  |       |       | 2,400                   | 2,600  | 2,400 | 2,200 | 2,400                   | 2,600  | 2,600 | 2,600 |
| 165    | 2,200                  | 2,400  |       |       | 2,200                   | 2,400  |       |       | 2,200                   | 2,400  | 2,200 | 2,200 |
| 170    | 2,000                  | 2,200  |       |       | 2,200                   | 2,200  |       |       | 2,200                   | 2,200  |       |       |
| 175    |                        | 2,200  |       |       |                         | 2,200  |       |       | 2,000                   | 2,200  |       |       |
| 180    |                        | 2,000  |       |       |                         | 2,000  |       |       |                         | 2,200  |       |       |
|        | %                      |        |       |       |                         |        |       |       |                         |        |       |       |
| T1     | 100/0                  | 100/0  | 100   | 100   | 100/0                   | 100/0  | 100   | 100   | 100/0                   | 100/0  | 100   | 100   |
| T2     | 25/75                  | 50/100 | 75    | 100   | 25/75                   | 50/100 | 75    | 100   | 25/75                   | 50/100 | 75    | 100   |
| T3     | 25/75                  | 50/100 | 75    | 100   | 25/75                   | 50/100 | 75    | 100   | 25/75                   | 50/100 | 75    | 100   |

THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE. The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.



99 - 151 ft.  
(30.0 - 46.0 m)



33 ft.  
(10.0 m)



9,300 lbs.  
(4200 kg)



100%



360°



85% Domestic (Pounds)

| (Feet) | 33' - 0° LATTICE EXT. |        |        |        | 33' - 16° LATTICE EXT. |        |        |        | 33' - 30° LATTICE EXT. |        |        |        |
|--------|-----------------------|--------|--------|--------|------------------------|--------|--------|--------|------------------------|--------|--------|--------|
|        | 99                    | 116    | 133    | 151    | 99                     | 116    | 133    | 151    | 99                     | 116    | 133    | 151    |
| 20     | 30,800                |        |        |        |                        |        |        |        |                        |        |        |        |
| 25     | 29,400                | 28,600 |        |        |                        |        |        |        |                        |        |        |        |
| 30     | 26,800                | 27,000 | 24,000 | 20,600 | 19,200                 | 19,600 |        |        |                        |        |        |        |
| 35     | 24,600                | 25,200 | 23,800 | 20,600 | 18,200                 | 18,400 | 18,400 |        | 14,200                 |        |        |        |
| 40     | 22,600                | 23,400 | 23,200 | 20,600 | 17,000                 | 17,600 | 17,600 | 17,200 | 13,600                 | 13,800 | 13,800 |        |
| 45     | 21,000                | 21,800 | 22,000 | 20,600 | 16,200                 | 16,600 | 16,800 | 16,600 | 13,200                 | 13,400 | 13,400 | 13,200 |
| 50     | 19,400                | 20,600 | 20,800 | 20,000 | 15,000                 | 16,000 | 16,200 | 16,000 | 12,600                 | 13,000 | 13,000 | 13,000 |
| 55     | 18,200                | 19,400 | 19,800 | 19,400 | 14,000                 | 15,200 | 15,400 | 15,400 | 12,200                 | 12,600 | 12,800 | 12,600 |
| 60     | 17,200                | 18,200 | 18,800 | 18,600 | 13,400                 | 14,400 | 14,600 | 14,600 | 11,800                 | 12,200 | 12,400 | 12,400 |
| 65     | 15,800                | 16,800 | 15,800 | 15,800 | 12,800                 | 13,600 | 13,800 | 14,000 | 11,400                 | 11,800 | 12,000 | 12,000 |
| 70     | 14,800                | 15,800 | 13,200 | 13,400 | 12,400                 | 13,000 | 13,400 | 13,600 | 11,200                 | 11,600 | 11,800 | 11,800 |
| 75     | 14,000                | 15,000 | 11,000 | 11,200 | 11,800                 | 12,400 | 12,200 | 12,600 | 10,800                 | 11,200 | 11,600 | 11,600 |
| 80     | 13,000                | 13,000 | 9,000  | 9,400  | 11,400                 | 12,000 | 10,200 | 10,600 | 10,400                 | 10,800 | 11,000 | 11,400 |
| 85     | 11,200                | 11,200 | 7,400  | 7,800  | 11,000                 | 11,600 | 8,400  | 8,800  | 10,200                 | 10,600 | 9,200  | 9,600  |
| 90     | 9,800                 | 9,800  | 6,000  | 6,200  | 10,400                 | 10,400 | 6,800  | 7,200  | 10,000                 | 10,400 | 7,600  | 8,000  |
| 95     | 8,400                 | 8,400  | 4,600  | 5,000  | 9,000                  | 9,000  | 5,600  | 6,000  | 9,200                  | 9,400  | 6,000  | 6,600  |
| 100    | 7,200                 | 7,200  | 3,400  | 3,800  | 7,600                  | 7,800  | 4,200  | 4,800  | 8,000                  | 8,200  | 4,800  | 5,400  |
| 105    | 6,200                 | 6,200  | 2,400  | 2,800  | 6,600                  | 6,800  | 3,200  | 3,600  |                        | 7,000  | 3,600  | 4,200  |
| 110    | 5,200                 | 5,400  |        |        | 5,600                  | 5,800  | 2,200  | 2,600  |                        | 6,000  | 2,600  | 3,000  |
| 115    | 4,400                 | 4,400  |        |        | 4,600                  | 4,800  |        |        |                        | 5,000  |        | 2,200  |
| 120    |                       | 3,600  |        |        |                        | 4,000  |        |        |                        |        |        |        |
| 125    |                       | 3,000  |        |        |                        | 3,200  |        |        |                        |        |        |        |
| 130    |                       | 2,400  |        |        |                        | 2,600  |        |        |                        |        |        |        |

|    | %     |        |     |     | %     |        |     |     | %     |        |     |     |
|----|-------|--------|-----|-----|-------|--------|-----|-----|-------|--------|-----|-----|
|    | T1    | T2     | T3  |     | T1    | T2     | T3  |     | T1    | T2     | T3  |     |
| T1 | 100/0 | 100/0  | 100 | 100 | 100/0 | 100/0  | 100 | 100 | 100/0 | 100/0  | 100 | 100 |
| T2 | 25/75 | 50/100 | 75  | 100 | 25/75 | 50/100 | 75  | 100 | 25/75 | 50/100 | 75  | 100 |
| T3 | 25/75 | 50/100 | 75  | 100 | 25/75 | 50/100 | 75  | 100 | 25/75 | 50/100 | 75  | 100 |



99 - 151 ft.  
(30.0 - 46.0 m)



53 ft.  
(16.0 m)



9,300 lbs.  
(4200 kg)



100%



360°



85% Domestic (Pounds)

| (Feet) | 53' - 0° LATTICE EXT. |        |        |        | 53' - 16° LATTICE EXT. |        |        |        | 53' - 30° LATTICE EXT. |       |       |       |
|--------|-----------------------|--------|--------|--------|------------------------|--------|--------|--------|------------------------|-------|-------|-------|
|        | 99                    | 116    | 133    | 151    | 99                     | 116    | 133    | 151    | 99                     | 116   | 133   | 151   |
| 20     |                       |        |        |        |                        |        |        |        |                        |       |       |       |
| 25     | 15,400                |        |        |        |                        |        |        |        |                        |       |       |       |
| 30     | 15,400                | 15,400 | 14,800 |        |                        |        |        |        |                        |       |       |       |
| 35     | 15,400                | 15,400 | 14,600 |        |                        |        |        |        |                        |       |       |       |
| 40     | 14,800                | 15,200 | 14,000 | 13,400 | 10,800                 | 11,000 |        |        |                        |       |       |       |
| 45     | 13,400                | 14,000 | 13,600 | 13,000 | 10,200                 | 10,400 | 10,400 |        |                        |       |       |       |
| 50     | 12,600                | 13,000 | 13,200 | 12,600 | 9,800                  | 10,000 | 10,000 | 10,000 | 8,200                  | 8,400 |       |       |
| 55     | 11,800                | 12,400 | 12,600 | 12,200 | 9,200                  | 9,600  | 9,600  | 9,600  | 7,800                  | 8,000 | 8,000 |       |
| 60     | 11,000                | 11,600 | 12,000 | 11,800 | 8,800                  | 9,200  | 9,200  | 9,400  | 7,600                  | 7,800 | 7,800 | 7,800 |
| 65     | 10,400                | 11,000 | 11,400 | 11,400 | 8,400                  | 8,800  | 9,000  | 9,000  | 7,400                  | 7,600 | 7,600 | 7,600 |
| 70     | 9,800                 | 10,400 | 10,800 | 11,000 | 8,000                  | 8,400  | 8,600  | 8,800  | 7,200                  | 7,400 | 7,400 | 7,400 |
| 75     | 9,400                 | 10,000 | 10,400 | 10,600 | 7,800                  | 8,200  | 8,400  | 8,400  | 6,800                  | 7,200 | 7,200 | 7,200 |
| 80     | 8,800                 | 9,400  | 9,800  | 10,000 | 7,400                  | 7,800  | 8,000  | 8,200  | 6,600                  | 7,000 | 7,000 | 7,200 |
| 85     | 8,400                 | 8,800  | 8,800  | 9,000  | 7,200                  | 7,600  | 7,800  | 8,000  | 6,400                  | 6,800 | 6,800 | 7,000 |
| 90     | 8,000                 | 8,600  | 7,400  | 7,600  | 7,000                  | 7,400  | 7,600  | 7,800  | 6,400                  | 6,600 | 6,800 | 6,800 |
| 95     | 7,600                 | 8,200  | 6,200  | 6,400  | 6,800                  | 7,000  | 7,400  | 7,400  | 6,200                  | 6,400 | 6,600 | 6,600 |
| 100    | 7,200                 | 7,800  | 5,000  | 5,200  | 6,400                  | 6,800  | 6,400  | 6,600  | 6,000                  | 6,200 | 6,400 | 6,600 |
| 105    | 7,000                 | 7,400  | 4,000  | 4,200  | 6,200                  | 6,600  | 5,200  | 5,600  | 6,000                  | 6,200 | 6,200 | 6,400 |
| 110    | 6,600                 | 6,600  | 3,000  | 3,200  | 6,200                  | 6,400  | 4,200  | 4,400  | 5,800                  | 6,000 | 5,200 | 5,400 |
| 115    | 5,800                 | 5,600  | 2,200  | 2,400  | 6,000                  | 6,400  | 3,400  | 3,600  | 5,800                  | 6,000 | 4,200 | 4,400 |
| 120    | 5,000                 | 4,800  |        |        | 5,600                  | 5,600  | 2,400  | 2,600  | 5,800                  | 5,800 | 3,200 | 3,400 |
| 125    | 4,400                 | 4,200  |        |        | 4,800                  | 4,800  |        | 2,000  |                        | 5,200 | 2,400 | 2,600 |
| 130    | 3,600                 | 3,600  |        |        | 4,000                  | 4,000  |        |        |                        | 4,400 |       |       |
| 135    | 3,000                 | 3,000  |        |        | 3,400                  | 3,400  |        |        |                        | 3,600 |       |       |
| 140    |                       | 2,400  |        |        |                        | 2,800  |        |        |                        |       |       |       |
| 145    |                       |        |        |        |                        | 2,200  |        |        |                        |       |       |       |

|    | %     |        |     |     | %     |        |     |     | %     |        |     |     |
|----|-------|--------|-----|-----|-------|--------|-----|-----|-------|--------|-----|-----|
|    | T1    | T2     | T3  |     | T1    | T2     | T3  |     | T1    | T2     | T3  |     |
| T1 | 100/0 | 100/0  | 100 | 100 | 100/0 | 100/0  | 100 | 100 | 100/0 | 100/0  | 100 | 100 |
| T2 | 25/75 | 50/100 | 75  | 100 | 25/75 | 50/100 | 75  | 100 | 25/75 | 50/100 | 75  | 100 |
| T3 | 25/75 | 50/100 | 75  | 100 | 25/75 | 50/100 | 75  | 100 | 25/75 | 50/100 | 75  | 100 |

THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE. The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.







































# Rated Lifting Capacities

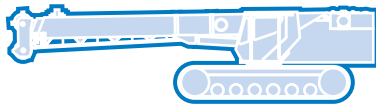
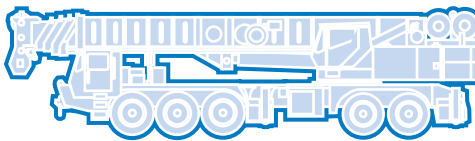
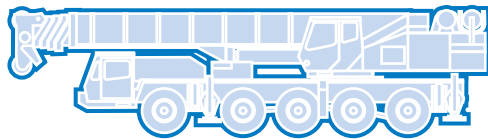
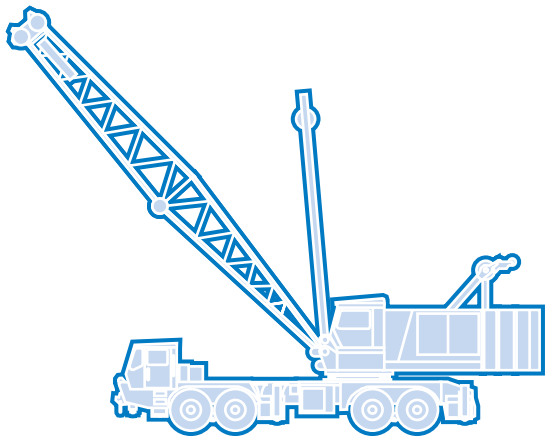
## Important Notes:

**Warning: THIS CHART IS ONLY A GUIDE. The notes below are for illustration only and should not be relied upon to operate the crane. The individual crane's load chart, operating instructions and other instruction plates must be read and understood prior to operating the crane.**

1. All rated loads have been tested to and meet minimum requirements of SAEJ1063 NOV93 - Cantilevered Boom Crane Structures - Method of Test, and do not exceed 85% of the tipping load on outriggers as determined by SAEJ765 OCT90 Crane Stability Test Code.
2. Capacities given do not include the weight of hook blocks, slings, auxiliary lifting equipment and load handling devices. Their weights must be added to the load to be lifted. When more than minimum required reeving is used, the additional rope weight shall be considered part of the load.
3. All capacities are for crane on firm, level surface. It may be necessary to have structural supports under the outrigger floats or tires to spread the load to a larger bearing surface.
4. When either boom length or radius or both are between values listed, the smallest load shown at either the next larger radius or boom length shall be used.
5. For outrigger operation, ALL outriggers shall be properly extended with tires raised free of ground before raising the boom or lifting loads.

## Symbols Glossary

|  |  |
|--|--|
|  Frame               |  Steering           |
|  Outriggers          |  Transmission       |
|  Outrigger Controls  |  Axles              |
|  Engine              |  Brakes             |
|  Fuel Tank Capacity  |  Tires              |
|  Electrical System   |  Suspension         |
|  Drive               |  360° Rotation      |
|  Lights              |  Boom Elevation     |
|  Cab                |  Swing             |
|  Boom              |  Counterweight    |
|  Fixed Swingaway   |  Oil              |
|  Tele-Swingaway    |  Hydraulic System |
|  Jib               |  Hoist            |
|  Boom Nose         |  Radius           |
|  Boom Extension    |  Boom Length      |
|  Speed             |  Hookblock        |
|  Grade             |  Gear             |
|  Lattice Extension |  Luffing Jib      |



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