BİGGE EQUIPMENT CO.

Tel: (888) 337-BIGGE or (510) 638-8100 Web: www.bigge.com

Hydraulic Crawler Crane

KOBELCO

GEFFOOG H

Max. Lifting Capacity: 110 US Tons Max. Crane Boom Length: 200 ft

Max. Fixed Jib Combination: 190 ft + 60 ft



- **SPECIFICATIONS**
- **G-MODE**
- LMI
- **WINCH PERFORMANCE**
- **GENERAL DIMENSIONS**
- **DIMENSIONS & WEIGHT**
- TRANSPORTATION PLAN
- **SELF ASSEMBLY PROCEDURE**
- **COUNTERWEIGHT SELF-REMOVAL DEVICE**
- **BOOM & JIB ARRANGEMENTS**
- **WORKING RANGES**
- **SUPPLEMENTAL DATA**
- **LIFTING CAPACITY**
- CLAMSHELL DATA
- **BARGE DATA**

General Description



Type Crawler mounted, Lattice boom, Hydraulic controlled Maximum lift capacity 220,000 lbs (99,800 kg) @ 11' operating radius (40' boom)

Basic boom length 40' (12.2 m) Maximum boom length 200' (61.0 m)

 Basic boom & jib length
 80' + 30' (24.4 m + 9.1 m)

 Maximum boom & jib length
 190' + 60' (57.9 m + 18.3 m)

 Working weight
 Approx. 198,500 lbs (90,020 kg)

 Ground bearing pressure
 Approx. 12.9 psi (101 kPa)

Gradeability 40%

To A

Calculations to determine working weight, ground bearing pressure, and gradeability include the weight of the upper and lower works of the crane, counterweights, and carbody weights, 40' boom and hook block.

General Dimensions

Height to top of gantry (lowered) Width of upper machine w/operator's cab Radius of rear end (counterweights) Counterweight ground clearance Center of rotation to boom foot pin Height from ground to boom foot pin Height over gantry (raised) Overall length of crawlers	10'10" (3.31 m) 9'10" (2.99 m)* 15'5" (4.70 m) 3'8" (1.12 m) 3'7" (1.10 m) 5'10" (1.77 m) 20'4" (6.19 m) 20'7" (6.28 m)
	` ′

Working Speed

Hoist line speed (front and rear drums)

390 ~ 10 ft/min (120 ~ 3 m/min)

Lowering line speed (front and rear drums)

390 ~ 10 ft/min (120 ~ 3 m/min)

Boom hoist line speed (front and rear drums)

230 ~ 6.6 ft/min (70 ~ 2 m/min)

Boom lowering line speed (front and rear drums)

230 ~ 6.6 ft/min (70 ~ 2 m/min)

Swing speed (max.) 4.0 rpm

Travel speed (high/low) 1.07/0.71 mph (1.7/1.1 km/h)

Line speed based on single line, no load, and first layer of rope on the drum.

Upper Machinery

Power Plant:

Diesel engine - make and model

Hino J08E-UV

(complies with Interim "Tier 4")

No. of cylinders 6

Bore X stroke 4-13/16" x 5-7/8"

(122 mm x 150 mm)

Cycles 4

Total displacement 469 cu.in. (7.684 l)

Rated output SAE GROSS

285 HP / 2,100 rpm (213 kW / 2,100 min⁻¹)

Maximum torque

750 lbs-ft / 1,600 rpm (1,017 Nm / 1,600 min⁻¹)

Starter 24 Volts / 5.0 kW Alternator 24 Volts / 90 Amp

Batteries Two 12 volt, 136 AH/5 HR capacity series connected.

Radiator Corrugated type core, thermostatically controlled, with cleanout screen.

Throttle Twist grip type hand throttle, electrically controlled, in conjunction with floor mounted pedal.

Air cleaner Dry type with replaceable paper element.

Fuel tank capacity 106 US gal. (400 liters)

Lube oil filters Full flow and by-pass type with element type.

Fuel filter Replaceable paper element.

^{* - 10&#}x27;5" wide with Catwalks on cab side only. 11' wide with Catwalks on both sides.



Self Lifting Device - Standard Equipment

Counterweight and Carbody weight

Counterweight Base 1 x 18,200 (8,310 kg) Counterweight (R) 2 x 12,700 (5,750 kg) Counterweight (L) 2 x 12,700 (5,750 kg) Total Counterweight 69,000 (31,310 kg)

Carbody weight 2 x 15,900 (7,200 kg) *Total Carbody weight* 31,800 (14,400 kg)



Hydraulic system

Maximum pressure rating

4,626 psi (31.9MPa)

Cooling

Oil to air heat exchanger

Filtration

Full flow filters with replaceable

paper elements

Reservoir capacity
116.2 US gal. (440 liters)

Hydraulic pumps:

Load hoist, boom hoist, and propel

2 piston pumps, max flow rate 67.3 US gal/min x 2 (255 t/min x 2)

Swing

1 piston pump, max flow rate 46.7 US gal/min (177 \(\ell \)/min)

Control system and auxiliary

2 Gear pumps, max flow rate

16.3 US gal/min + 10.6 US gal (61.6 \(\ell \)min + 40.5 \(\ell \)min)

Brake cooling system

2 gear pumps, max flow rate 19.4 US gal/min x 2 (73.5 \(\ell \)min x 2)

Gantry

This high folding type gantry is fitted with a sheave frame for boom reeving. Hydraulic lift is standard. It provides full up, full down positions with linkage.

Operators cab

Totally enclosed from weather, this full-vision cab has safety glass all around. The adjustable, high-backed seat with armrest is capable of adjustment with or without the control console. Auxiliary controls and instruments are on a side mounted console. A signal horn, windshield wipers, air conditioner/heater, and swing limiter are all standard features.

Controls

At the operator's right are console-mounted adjustable short levers for the front and rear drum and the boom hoist control. Fine inching control and free fall activation switches are built in to the levers. Beside the seat on the right are two short levers for propel control, plus individual speed dial controls for front, rear, and boom drums. At the left is the console mounted swing lever, an optional 3rd drum control, switches for the front, rear, and boom drum pawls, and the engine start/stop key. A swing brake control switch and signal horn button are on the swing lever.

Swing:

Swing unit

Hydraulic motor driving spur gears through planetary reducers to output swing pinion for 360 degree rotation.

Swing brake

Spring set hydraulically released multiple disk brake mounted on swing motor.

Swing circle

Single row ball bearing with an integral internally cut swing gear.

Swing lock

Manual, 4 position lock for transportation.





Line pull:

Max. line pull (single line) - 46,800 lbf (208 kN) Rated line pull - 25,200 lbf (112 kN)

Lower Machinery

Crawlers:

Crawler assemblies can be hydraulically extended or retracted for wide track operation or retracted for transportation.

Crawler belt tension adjusted with hydraulic jack and maintained by shims between the idler block and frame.

Crawler drive:

The independent two speed hydraulic propel drive is built into each crawler side frame. Each drive consists of a hydraulic motor driving a propel sprocket through a planetary gear box. The hydraulic motor and gear box are built into the crawler side frame within the shoe width.

Crawler brakes:

Spring set, hydraulically released, multiple disk-type parking brakes are built into each propel drive.

Steering mechanism:

A hydraulic propel system provides both skid steering and counter rotating steering.

Crawler shoe:

66 shoes - 36" wide, each crawler.

Track rollers:

The track rollers are sealed for maintenance free operation.

Front drum:

Front and rear drums for load hoist powered by hydraulic variable plunger motors, driven through plnaetary reducers.

Negative brake

A spring-set, hydraulically released multiple disk brake is mounted on the hoist motor and operated through a counter-balance valve.

Drum lock External ratchet for locking drum

Drums:

Front drum -

614 mm P.C.D. x 617 mm Lg., grooved for 26 mm wire rope. Rope capacity is 771' (235 m) working length and 1,181' (360 m) storage length.

Rear drum -

614 mm P.C.D. x 617 mm Lg., grooved for 26 mm wire rope. Rope capacity is 525' (160 m) working length and 1,181' (360 m) storage length.

3rd drum (optional) -

550 mm P.C.D. x 545 mm Lg., grooved for 22 mm wire rope. Rope capacity is 476' (145 m) working length and 1,099' (335 m) storage length.

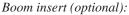


Crane Attachments

Boom:

The welded lattice construction uses tubular, high-tension steel chords with pin connections between sections.

Maximum boom length 200' (61.0 m) Basic boom length 40' (12.2 m) 19'7" (5.97 m) Boom base section 22'8" (6.91 m) Boom tip section



Optional boom inserts are available to provide extension capabilities. They are robotic welded, laser aligned, lattice constructed with tubular, high-tension steel chords and pin connections.

Boom insert

10' (3.1 m), 20' (6.1 m), 40' (12.2 m)

Jib (optional):

Jib inserts are available to provide extension capabilites. The optional jib employs welded lattice construction with tubular, high-tension steel chords with pin connections between sections.

Maximum jib length 60' (18.3 m) Basic jib length 30' (9.1 m) Jib base section 15'9" (4.8 m) Jib tip section 16'5" (5.0 m)

Jib insert 10' (3.1 m), 20' (6.1 m)

Jib is useable on booms of 80' (24.4 m) through 190' (57.9 m)



Auxiliary sheave (optional):

Auxiliary sheave is extendible on booms of 40' (12.2 m) through 190' (57.9 m)

Boom hoist reeving:

Twelve (12) parts of 5/8" (16.0 mm) diameter high strength wire rope.

Boom backstops:

Telescopic type with spring bumper

Standard Equipment

Lights:

Two (2) front flood lights One (1) cab inside light

Gauges and warning display

Gauges

One (1) tachometer One (1) hour meter One (1) fuel gauge

One (1) water temperature

Warning display

Battery charge Engine oil pressure Air cleaner Engine oil filter

Control main pressure Hydraulic oil temperature

DPF condition indicator

Others

Air conditioner/heater

Drum turn indicator (front/rear)

Foot pedal / throttle Electric transfer pump

Counterweight self-removal device

KCross Telematics Free fall winches

Safety Service

Function lock lever Swing Limiter

Boom over hoist limit switch

Signal horn

Front/rear hoist drum lock

Swing Limiter (Buzzer, lamps, or stops) Overload prevention device (LMI)

Hook over hoist shut off (Anti-two-block)

Boom angle indicator

Travel alarm

Safety Service (cont)

Level indicator

Boom hoist drum lock

Swing locks, anti drift, and mechanical

Boom backstops

Boom base catwalk

Upper machinery catwalk, handrails

and ladder

Tools and Accessories

A set of tools and accessories are furnished.

Optional Equipment

Third drum Hook block

Hook ball

Auxiliary sheave

Fixed jib Boom inserts

Carbody erection cylinder



G-Mode

The G-modes are a standard exclusive energy and fuel saving system, with up to 30% in fuel savings. The G-Mode eliminates needless operations and engine functions allowing for reduced fuel consumption by using three basic modes that are all operator selectable.

Auto Idling Stop Mode (AIS):

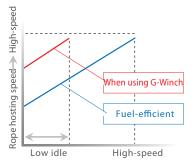
An Industry First

The AIS mode can conserve fuel by stopping the engine, with an operator prompt, after 10 seconds of idling time. Restarting the engine is simple by just twisting the throttle.

G-Winch Mode:

An Industry First

The G-winch mode can produce maximum winch line speed at a low engine RPM.



The high speed mode allows the line to be raised or lowered at maximum line speed without raising engine speed when lifting without a load.

G-Engine Mode:

An Industry First

The G-engine mode limits maximum engine speed to 1,750 RPM and controls the pumps to make engine operation in the most efficient condition.











G-Engine

G-Winch

AIS



Exhaust cleaning DPR:

The DPR (diesel particulate active reduction system) burns PM (particulate matter) collected by the DPF (diesel particulate filter) from the diesel exhaust gas, increasing the PM collection efficiency of the DPF, and recovering to purify the exhaust. This means that the exhaust gas from the diesel engine is cleaner, conforming with current EPA Interim Tier 4 regulations.

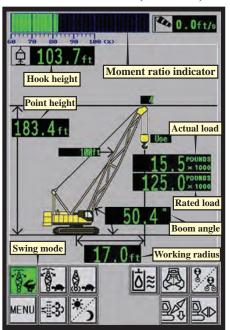
A new clean diesel system - although diesel engines consume less fuel and emit less CO2 than gasoline engines, they also emit more harmful particulate matter and nitrogen oxide (NOx). The "new clean energy system" engine utilizes a DPF to reduce particulate matter, which is also kept to a minimum using negative ions. This system requires the use of low sulfer diesel.

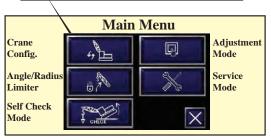
* Warning: High sulfer diesel will damage the engine.

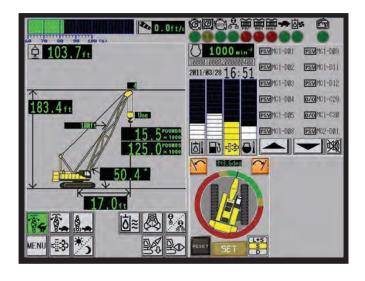
Load Moment Indicator (LMI)

The Kobelco newly designed 12" touch panel screen with sunshade and screen protector is an industry first. This intuitive and easy to understand new touch screen monitor gives the operator a full display of essential data. Universal pictograms are used providing easy visual recognition, making this new technology easy to read and understand the information. This new monitor includes: Hook Height, Engine Speed, Display Lamp of standard functions, Gauges, Over-Swing Prevention Device, Switches, and Error Messages.

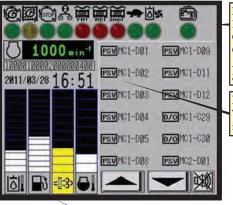
Moment Limiter (Left Side)







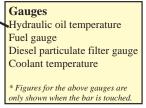
Gauges (Right Side)



Display Lamp Display lamp G-Engine G-Winch AIS operation Slow speed state

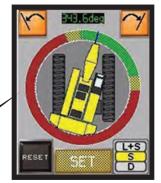
Remote control connection Oil cooler operation Free fall (auxiliary) Free fall (3rd)

Error Message Touch to display details in a pop-up window.



Over-Swing Prevention

An over-swing preventative device is standard. It limits the swing of the crane. Configuration is simple and can be done from the touch panel.



Bigge

Winch Performance Data

Note:

Line speed and line pull based on Hino J08E-UV at 2,100 rpm.

Line speed and line pull based on single line.

Max. line pull is based on referential performance, not wire rope strength.

Front & Rear Drum

Wire Rope Diameter = 26 mm

Rated Line Pull = 25,200 lbf (112 kN)

Maximum Line Pull = 46,800 lbf (208 kN)

Total Storage Capacity = 1,185 ft (361.2 m)

Line speed (ft/min)

	Layer	1	2	3	4	5	6
	0	393	421	449	476	504	
	5,000	393	421	449	476	504	
	10,000	387	414	440	467	494	
Line Pull	15,000	360	360	348	348	348	
(lbs)	20,000	270	270	261	261	261	storage only
	25,200	214	214	199	187	173	Offig
	30,000	166	149	140	138	136	
	35,000	120	118	114	109		
	40,000	100	95				
Storage Cap	acity (ft)	139	149	159	169	179	189

Third Drum (for Load hoist)

Wire Rope Diameter = 22 mm

Rated Line Pull = 17,000 lbf (78.5 kN)

Maximum Line Pull = 32,400 lbf (144 kN)

Total Storage Capacity = 1,099 ft (334.9 m)

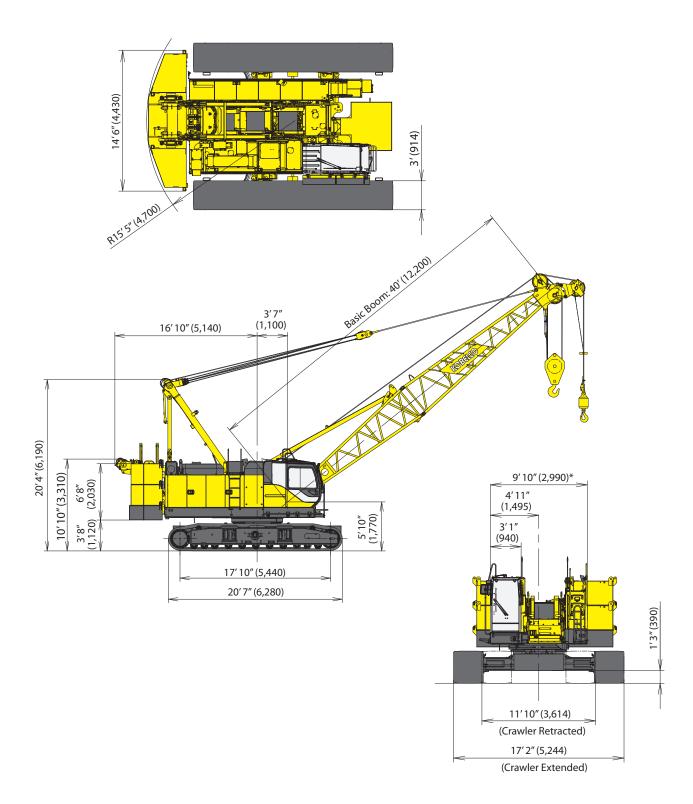
Line speed (ft/min)

	Layer	1	2	3	4	5	6
	0	394	394	394	394	394	
	5,000	394	394	394	394	394	
	10,000	227	227	227	227	227	
Line Pull	15,000	147	152	161	170	179	storage
(lbs)	17,000	142	151	160	169	178	only
	20,000	140	149	158	167	176	
	25,000	138	147	155	164	172	
	30,000	136	144				
Storage Cap	acity (ft)	130	139	148	157	166	175

Wire Rope Specifications

Use	Construction	No load diameter	Length	Safety Factor	Required minimum breaking strength
Front drum	6 x 29 Filler IWRC Right hand lay, Regular lay	1.049" to 1.070" (26.65 mm to 27.17 mm)	771ft (235 m)	3.5: 1	120,048 lbf (534 kN)
Rear drum	6 x 29 Filler IWRC Right hand lay, Regular lay	1.049" to 1.070" (26.65 mm to 27.17 mm)	525ft (160 m)	3.5: 1	120,048 lbf (534 kN)
Boom drum	6 x 31 P Warrington seal Right hand lay, Regular lay	0.646" to 0.658" (16.40 mm to 16.72 mm)	492ft (150 m)	3.5: 1	47,210 lbf (210 kN)
Third drum (Optional)	6 x 29 Filler IWRC Right hand lay, Regular lay	0.888" to 0.905" (22.55 mm to 22.99 mm)	476ft (145 m)	3.5: 1	81,606 lbf (363 kN)

General Dimensions



^{* - 10&#}x27;5" wide with Catwalks on cab side only. 11' wide with Catwalks on both sides.

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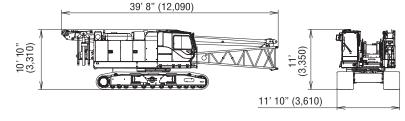
Dimensions and Weight

Dimensions: ft-in (mm) Weight: lbs (kg)

Base Machine - 1

Weight: 95,200 lbs (43,150 kg)

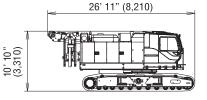
Boom base, gantry, crawlers, self removal unit, and wire ropes (front, rear, and boom hoist)

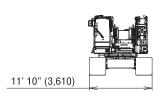


Base Machine - 2

Weight: 90,600 lbs (41,090 kg)

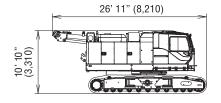
Gantry, crawlers, self removal unit, and wire ropes (front, rear, and boom hoist)

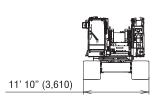




Base Machine - 3

Weight: 88,700 lbs (40,230 kg)
Gantry, crawlers, and
wire ropes (front, rear, and boom hoist)

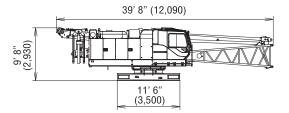


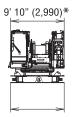


Base Machine - 4

Weight: 61,500 lbs (27,880 kg)

Boom base, gantry, self removal unit, and wire ropes (front, rear, and boom hoist)

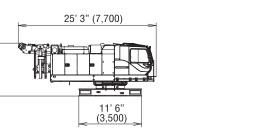


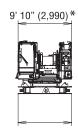


Base Machine - 5

Weight: 56,900 lbs (25,820 kg) Gantry, self removal unit, and

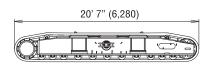
Gantry, self removal unit, and wire ropes (front, rear, and boom hoist)

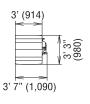




Crawler

Weight: 16,850 lbs (7,640 kg)





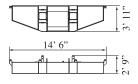
* - 10'5" wide with Catwalks on cab side only. 11' wide with Catwalks on both sides.

Dimensions: ft-in (mm) Weight: lbs (kg)

Dimensions and Weight

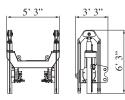
Counterweight Base

Weight: 18,200 lbs (8,310 kg)



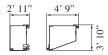
Self Removal Unit

Weight: 1,900 lbs (870 kg)



Counterweight (R)

Weight: 12,700 lbs (5,750 kg)



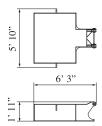
Counterweight (L)

Weight: 12,700 lbs (5,750 kg)



Carbody Weight

Weight: 15,900 lbs (7,200 kg)



Auxiliary Sheave

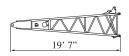
Weight: 430 lbs (195 kg)





Boom Base

Weight: 3,400 lbs (1,517 kg)

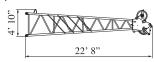




Boom Tip

Weight: 2,900 lbs (1,292 kg) Includes cable roller and guy lines





10 ft (3.0 m) Insert Boom

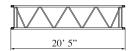
Weight: 800 lbs (364 kg) Includes cable roller and guy lines





20 ft (6.1 m) Insert Boom

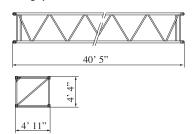
Weight: 1,400 lbs (613 kg) Includes cable roller and guy lines





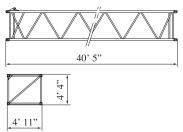
40 ft (12.2 m) Insert Boom

Weight: 2,400 lbs (1,098 kg) Includes cable roller and guy lines



40 ft (12.2 m) Insert Boom (with lug)

Weight: 2,500 lbs (1,113 kg) Includes cable roller and guy lines

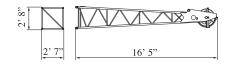


Dimensions and Weight

Dimensions: ft-in (mm) Weight: lbs (kg)

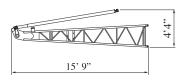
Jib Tip

Weight: 500 lbs (227 kg) Includes cable roller.



Jib Base and Strut

Weight: 1,400 lbs (637 kg) Includes guy line.





10 ft (3.0 m) Insert Jib

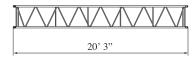
Weight: 280 lbs (128 kg) Includes cable roller and guy line.





20 ft (6.1 m) Jib Insert

Weight: 480 lbs (218 kg) Includes cable roller and guy line.





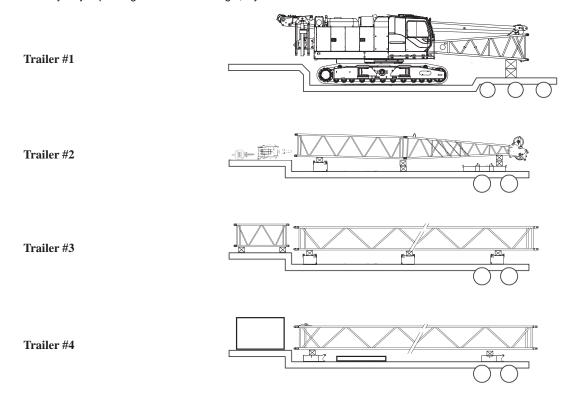
Transportation PlanRefer to pages 10-12

Shipping plan for 150 ft Boom

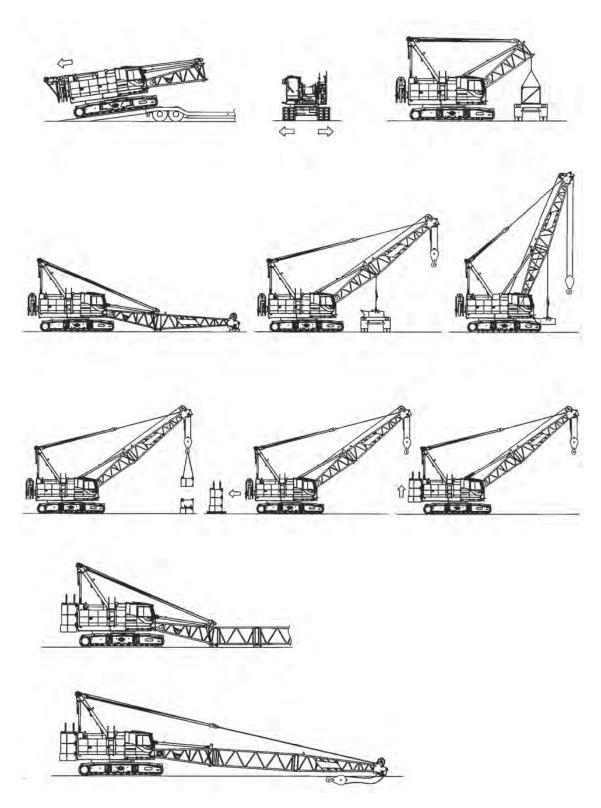
Description of Item	Weight			Trailer Loads			
Description of Item	lbs	(kg)	#1	#2	#3	#4	
Base Machine with Boom Base and Crawlers*	95,200	(43,150)	1				
Counterweight Base	18,200	(8,310)		1			
Counterweight (L)	12,700	(5,750)			2		
Counterweight ('R)	12,700	(5,750)		1	1		
Carbody Weight	15,900	(7,200)				2	
10 ft Insert Boom and Guy Line	800	(364)			1		
20 ft Insert Boom and Guy Line	1,400	(613)		1			
40 ft Insert Boom and Guy Line	2,400	(1,098)			1		
40 ft Insert Boom (w/ Lug) and Guy Line (A)	2,500	(1,113)				1	
Boom Tip and Guy Line	2,900	(1,292)		1			
Jib Base and Guy Line	1,400	(637)					
10 ft Insert Jib and Guy Line	280	(128)					
20 ft Insert Jib and Guy Line	480	(218)					
Jib Tip	500	(227)					
75 Ton Block	3,000	(1,361)		1			
13 Ton Ball	800	(365)		1			
Ladder Assembly	90	(41)				1	
Support Box	5,000	(2,268)				1	
Approx Total China	ing Maight	lbs	95,200	39,000	41,300	39,390	
Approx. Total Shipp	ing weight	(kg)	(43,150)	(17,691)	(18,712)	(17,822	

^{*} Third drum is not included. Add 4,200 lbs if third drum is installed.

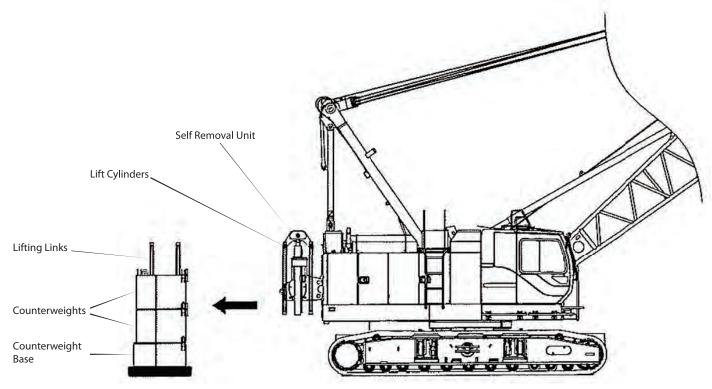
Loads for transportation were targeted at 45,000 lbs, 8' 6" wide, 48' long and 13' 6" high from ground, 48' step deck. This may vary depending on truck/trailer weight, style of trailer and state law.

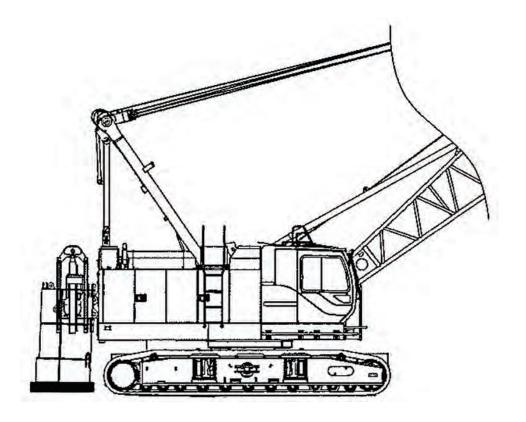


Self-Assembly Procedure



Counterweight Self-Removal Device



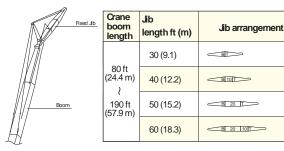


Boom and Fixed Jib Arrangement

Boom Arrangement

Doom /mran	boom Arrangement					
Boom length ft (m)	Boom arrangement					
40 (12.2)						
50 (15.2)	€ 101					
60 (18.3)	★ ■ 10 10 F ★ ■ 20					
70 (21.3)	₩ <u>□ 10 20 F</u>					
80 (24.4)	* B1010 20 T					
90 (27.4)	* 810 20 20 F					
100 (30.5)	★ ■ 10 10 20 20 ↑ → ■ 10 10 40A ↑ → ■ 20 40A ↑					
110 (33.5)	※ □ 10 20 40A ↑					
120 (36.6)	# B 10 10 20 40A F					
130 (39.6)						
140 (42.7)	★ ■ 10 10 20 20 40A ↑ ■ 10 10 40 40A ↑ ■ 20 40 40A ↑ ■ 20 40 40A ↑					

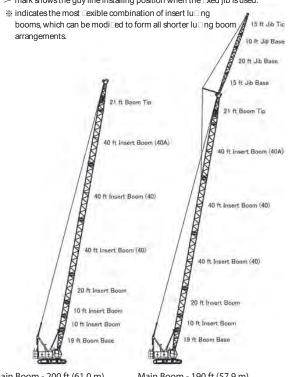
Fixed Jib Arrangement



Symbol	Jib Length	Remarks
B	15 ft (4.6 m)	Jib Base
	15 ft (4.6 m)	Jib Top
10	10 ft (3.0 m)	Insert Jib
20	20 ft (6.1 m)	Insert Jib

Boom length ft (m)	Boom arrangement
150 (45.7)	* = 10 20 40 40A T
160 (48.8)	# = B 10 10 20 40 40A T >
170 (51.8)	※ ■ 10 20 20 40 40
180 (54.9)	
190 (57.9)	
200 (61.0)	※ ■ 10 10 20 40 40 1 40A 1 → 1

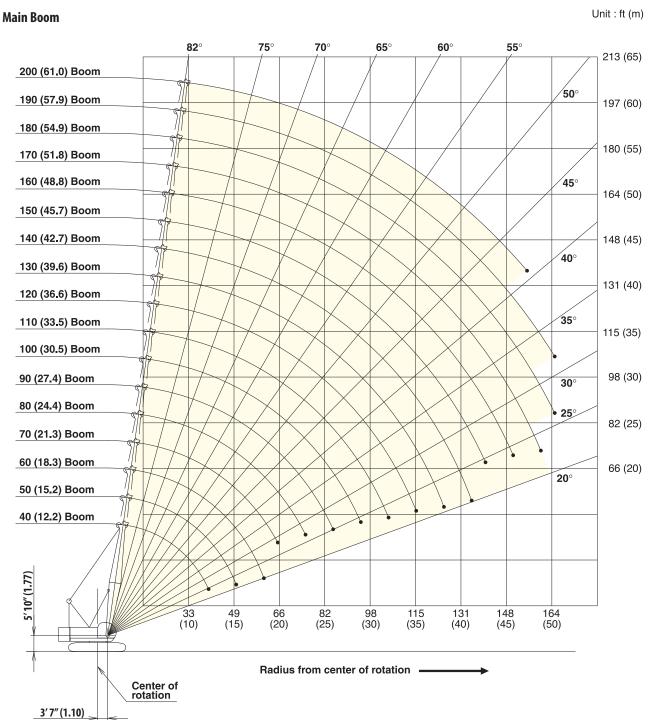
Symbol	Boom Length	Remarks
	20.0 ft (6.1 m)	Boom Base
	20.0 ft (6.1 m)	Boom Top
10	10.0 ft (3.1 m)	Insert Boom
20	20.0 ft (6.1 m)	Insert Boom
40	40.0 ft (12.2 m)	Insert Boom
40A	40.0 ft (12.2 m)	Insert Boom with lug



Main Boom - 200 ft (61.0 m)

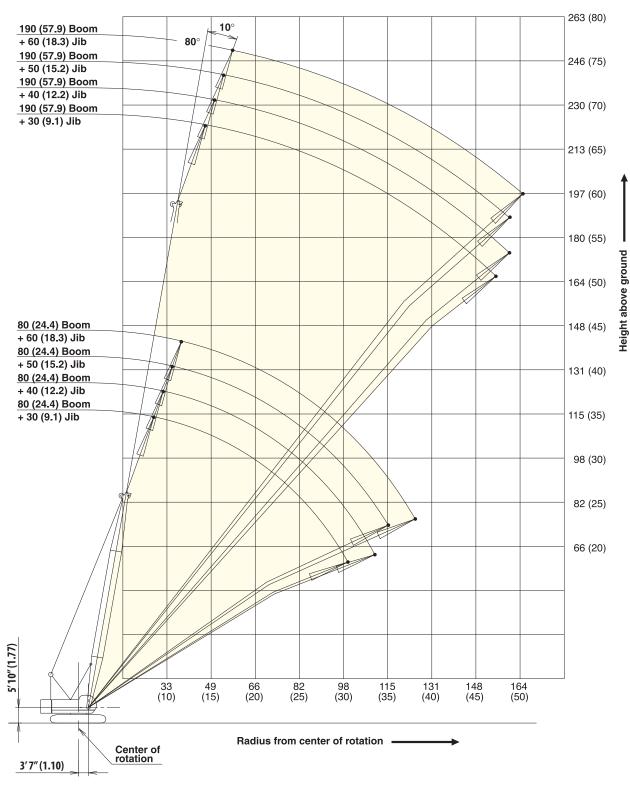
Main Boom - 190 ft (57.9 m) Fixed Jib - 60 ft (18.3 m)

Working Ranges



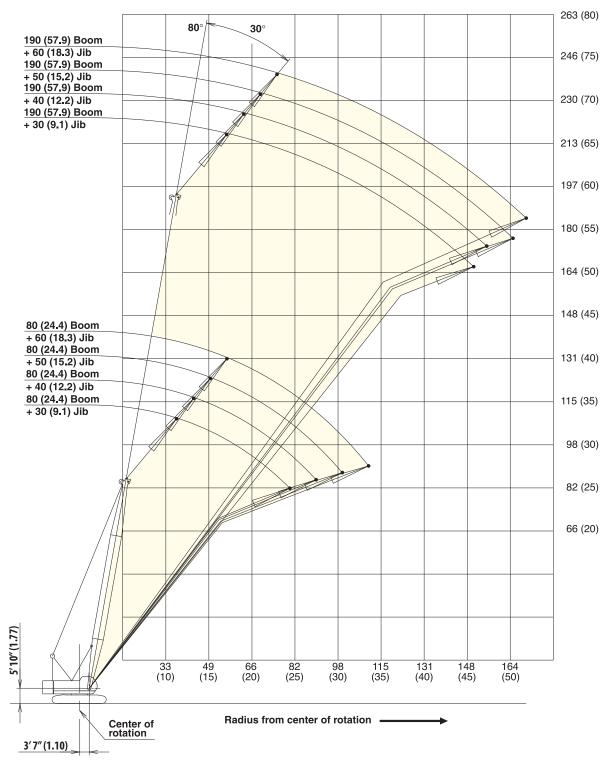
Working Ranges

Fixed Jib 10° Unit: ft (m)



Working Ranges

Fixed Jib 30° Unit : ft (m)



Height above ground

Supplemental Data

- 1. Rated loads included in the charts are the maximum allowable freely suspended loads at a given boom length, boom angle and load radius, and have been determined for the machine standing level on firm supporting surface under ideal operating conditions. The user must limit or de-rate rated loads to allow for adverse conditions (such as soft or uneven ground, out-of-level conditions, wind, side loads, pendulum action, jerking or sudden stopping of loads, inexperience of personnel, multiple machine lifts, and traveling with a load).
- 2. Rated loads do not exceed 75% of minimum tipping loads. Rated loads based on factors other than machine stability such as structural competence are shown by asterisk * in the charts.
- 3. The machine must be reeved and set-up as stated in the operation manual and all the instruction manuals if these manuals are missing, obtain replacements.
 - The crane must be leveled to within 1% on a firm supporting surface.
 - Boom backstops are required for all boom length.
 - Gantry must be fully raised position for all operations.
- 4. Do not attempt to lift where no radius on load is listed as crane may tip or collapse.
- 5. Attempting to lift more than rated loads may cause machine to tip or collapse. Do not tip machine to determine rated loads.
- 6. Weight of hooks, hook blocks, slings and other lifting devices are a part of the total load. Their total weight must be subtracted from the rated load to obtain the weight that can be lifted.
- 7. When lifting over boom point with jib or auxiliary sheave, rated loads for the boom must be deducted as shown below.

Jib Length	Aux Sheave	30 ft	40 ft	50 ft	60 ft
Deduct (lbs)	430	2,500	3,700	5,100	6,700

- 8. The total load that can be lifted by jib is limited by rated jib loads.
- 9. Boom lengths for jib mounting are 80 ft (24.4 m) to 190 ft (57.9 m)
- 10. The total load that can be lifted by the auxiliary sheave is the value for 430 lbs deducted from rated load for the boom (without auxiliary sheave installed); however, the auxiliary sheave rated load should not exceed 24,000 lbs.

- 11. Boom lengths that can attach auxiliary sheave are from 40 ft (12.2 m) to 190 ft (57.9 m).
- 12. The boom should be erected over the front of the crawlers, not laterally. When lifting from or lowering to the ground the boom at length of 190 ft (57.9 m) with jib, the blocks for erections must be placed at the end of the crawlers.
- 13. Least stable position is over the side.
- 14. Maximum hoist load for number of reeving parts of line for hoist rope.

Maximum Load for Main Boom

No. of Parts of line	1	2	3	4	5
Maximum Loads (lbs)	25,200	50,400	75,600	100,800	126,000

No. of Parts of line	6	7	8
Maximum Loads (lbs)	151,200	176,400	220,000

Maximum Load for Fixed Jib

No. of Parts of line	1
Maximum Loads (lbs)	24,000

Maximum Load Auxiliary Sheave

No. of Parts of line	1
Maximum Loads (lbs)	24,000

- 15. Rated loads listed apply only to the machine as originally manufactured and designed by KOBELCO CRANES CO., LTD. Modifications to this machine or use of equipment of than that specified can reduce operating capacity.
- 16. Designed and rated to comply with ANSI Code B30.5.

Main Boom Lift Capacity

Full Counterweight: 69,000 lbs (Carbody Weig	ht: 31,800
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40)' Boo	m	50)' Boo	m	60)' Boo	m	70)' Boo	m	80)' Boo	m
Load	Boom	360°	Load	Boom	360°	Load	Boom	360°	Load	Boom	360°	Load	Boom	360°
Radius	Angle	Rated Load	Radius	Angle	Rated Load	Radius	Angle	Rated Load	Radius	Angle	Rated Load	Radius	Angle	Rated Load
(ft)	(deg.)	(lbs)	(ft)	(deg.)	(lbs)	(ft)	(deg.)	(lbs)	(ft)	(deg.)	(lbs)	(ft)	(deg.)	(lbs)
11.0	80.5	220,000 *	12.0	81.2	213,200 *	13.0	81.7	200,400 *	15.0	81.3	151,000 *	16.0	81.6	151,000 *
12.0	79.0	213,300 *	13.0	80.0	200,600 *	14.0	80.7	187,400 *	16.0	80.4	151,000 *	17.0	80.9	149,300 *
13.0	77.5	200,800 * 188,100 *	14.0	78.9 77.7	187,800 * 175,600 *	15.0 16.0	79.8 78.8	175,200 * 164,800 *	17.0 18.0	79.6 78.7	149,400 * 146,700 *	18.0 19.0	80.2 79.5	146,500 * 139,400 *
14.0 15.0	76.0 74.6	175,900 *	15.0 16.0	76.6	165,300 *	17.0	77.8	155,500 *	19.0	77.9	139,800 *	20.0	7 9.5 78.8	131,800
16.0	73.1	165,500 *	17.0	75.4	156,000 *	18.0	76.8	146,900 *	20.0	77.1	132,200	22.0	77.3	115,100
17.0	71.6	156,300 *	18.0	74.2	147,400 *	19.0	75.9	139,800 *	22.0	75.4	115,400	24.0	75.8	101,000
18.0	70.1	147,800 *	19.0	72.9	140,100 *	20.0	74.9	132,200	24.0	73.7	101,300	26.0	74.3	89,200
19.0	68.5	140,500 *	20.0	71.7	132,400	22.0	72.9	115,100	26.0	72.0	89,600	28.0	72.8	80,500
20.0	66.9	132,800	22.0	69.3	115,300	24.0	70.9	100,800	28.0	70.3	80,800	30.0	71.2	72,800
22.0 24.0	63.7 60.4	115,600 101,300	24.0 26.0	66.8 64.3	101,000 89,400	26.0 28.0	68.8 66.7	89,100 80,500	30.0 32.0	68.5 66.7	73,000 67,000	32.0 34.0	69.7 68.2	66,600 61,600
26.0	57.0	89,600	28.0	61.7	80,700	30.0	64.6	72,800	34.0	64.9	62,000	36.0	66.6	57,300
28.0	53.4	80,900	30.0	59.1	73,000	32.0	62.5	66,600	36.0	63.0	57,800	38.0	65.1	53,100
30.0	49.8	73,300	32.0	56.3	67,000	34.0	60.3	61,600	38.0	61.2	53,600	40.0	63.5	49,300
32.0	45.8	67,200	34.0	53.4	62,000	36.0	58.0	57,300	40.0	59.3	49,800	42.0	61.8	46,600
34.0	41.2	61,700	36.0	50.3	57,800	38.0	55.7	53,100	42.0	57.3	46,900	44.0	60.2	43,800
36.0	36.2	56,600	38.0	47.3	53,600	40.0	53.4	49,300	44.0	55.3	44,100	46.0	58.5	41,100
38.0 40.0	31.1 25.4	51,500 45,900 *	40.0 42.0	44.0 40.4	49,800 47,000	42.0 44.0	50.9 48.3	46,600 43,800	46.0 48.0	53.3 51.2	41,300 39,400	48.0 50.0	56.8 55.1	39,100 37,100
40.0	23.4	45,900	44.0	36.7	44,300	46.0	45.8	41,100	50.0	49.0	3 7,400	55.0	50.5	32,700
			46.0	32.9	41,500	48.0	42.8	39,200	55.0	43.2	33,200	60.0	45.7	29,200
			48.0	27.6	38,300	50.0	39.9	37,200	60.0	36.9	29,600	65.0	40.4	26,300
			50.0	22.3	35,100	55.0	31.2	32,900	65.0	29.2	26,800	70.0	34.3	24,100
						60.0	20.7	28,600 *				75.0	26.9	22,100
Ree	eves	8	Ree	ves	8	Ree	eves	8	Ree	ves	6	Ree	ves	6
90)' Boo		10	0' Boo		11	0' Boo		12	0' Boo		13	0' Boo	
Load	Boom	360°	Load	Boom	360°	Load	Boom	360°	Load	Boom	360°	Load	Boom	360°
Load Radius	Boom Angle	360° Rated Load	Load Radius	Boom Angle	360° Rated Load	Load Radius	Boom Angle	360° Rated Load	Load Radius	Boom Angle	360° Rated Load	Load Radius	Boom Angle	360° Rated Load
Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360 [°] Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
Load Radius (ft)	Boom Angle (deg.) 81.9	360° Rated Load (lbs) 125,800 *	Load Radius (ft)	Boom Angle (deg.) 81.6	360° Rated Load (lbs) 125,600 *	Load Radius (ft)	Boom Angle (deg.) 81.8	360° Rated Load (lbs) 100,800 *	Load Radius (ft)	Boom Angle (deg.) 81.6	360° Rated Load (lbs) 98,700 *	Load Radius (ft) 24.0	Boom Angle (deg.) 81.3	360° Rated Load (lbs) 85,100 *
Load Radius (ft) 17.0 18.0	Boom Angle (deg.) 81.9 81.3	360° Rated Load (lbs) 125,800 * 125,800 *	Load Radius (ft) 19.0 20.0	Boom Angle (deg.) 81.6 81.0	360° Rated Load (lbs) 125,600 * 123,600 *	Load Radius (ft) 20.0 22.0	Boom Angle (deg.) 81.8 80.8	360° Rated Load (lbs) 100,800 * 100,800 *	Load Radius (ft) 22.0 24.0	Boom Angle (deg.) 81.6 80.6	360° Rated Load (lbs) 98,700 * 94,200 *	Load Radius (ft) 24.0 26.0	Boom Angle (deg.) 81.3 80.4	360° Rated Load (lbs) 85,100 * 83,900 *
Load Radius (ft)	Boom Angle (deg.) 81.9	360° Rated Load (lbs) 125,800 *	Load Radius (ft)	Boom Angle (deg.) 81.6	360° Rated Load (lbs) 125,600 *	Load Radius (ft)	Boom Angle (deg.) 81.8	360° Rated Load (lbs) 100,800 *	Load Radius (ft)	Boom Angle (deg.) 81.6	360° Rated Load (lbs) 98,700 *	Load Radius (ft) 24.0	Boom Angle (deg.) 81.3	360° Rated Load (lbs) 85,100 *
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0	Boom Angle (deg.) 81.9 81.3 80.7 80.0 78.7	360 Rated Load (lbs) 125,800 * 125,800 * 125,800 * 124,000 * 112,500 *	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0	Boom Angle (deg.) 81.6 81.0 79.9 78.7 77.5	360 Rated Load (lbs) 125,600 * 123,600 * 112,200 * 100,600 88,900	Load Radius (ft) 20.0 22.0 24.0 26.0 28.0	Boom Angle (deg.) 81.8 80.8 79.7 78.6 77.6	360 Rated Load (lbs) 100,800 * 100,800 * 96,500 * 88,500 * 80,200	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0	Boom Angle (deg.) 81.6 80.6 79.6 78.6 77.7	360° Rated Load (lbs) 98,700 * 94,200 * 88,000 * 79,900 72,200	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7	360 Rated Load (lbs) 85,100 * 83,900 * 78,200 * 71,900 65,900
Load Padius (ft) 17.0 18.0 19.0 20.0 22.0 24.0	Boom Angle (deg.) 81.9 81.3 80.7 80.0 78.7 77.4	360 Rated Load (lbs) 125,800 * 125,800 * 124,000 * 112,500 * 100,800	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 28.0	Boom Angle (deg.) 81.6 81.0 79.9 78.7 77.5 76.3	360° Rated Load (lbs) 125,600 * 123,600 * 112,200 * 100,600 88,900 80,200	Load Radius (ft) 20.0 22.0 24.0 26.0 28.0 30.0	Boom Angle (deg.) 81.8 80.8 79.7 78.6 77.6 76.5	360° Rated Load (lbs) 100,800 * 100,800 * 96,500 * 88,500 * 80,200 72,400	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0	Boom Angle (deg.) 81.6 80.6 79.6 78.6 77.7 76.7	360 Rated Load (lbs) 98,700 * 94,200 * 88,000 * 72,200 66,100	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.9	360° Rated Load (lbs) 85,100 * 83,900 * 78,200 * 71,900 65,900 60,900
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0	Boom Angle (deg.) 81.9 81.3 80.7 80.0 78.7 77.4 76.1	360° Rated Load (lbs) 125,800 * 125,800 * 124,000 * 112,500 * 100,800 89,100	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 28.0 30.0	Boom Angle (deg.) 81.6 81.0 79.9 78.7 77.5 76.3 75.1	360° Rated Load (lbs) 125,600 * 123,600 * 112,200 * 100,600 88,900 80,200 72,400	Load Radius (ft) 20.0 22.0 24.0 26.0 28.0 30.0 32.0	Boom Angle (deg.) 81.8 80.8 79.7 78.6 77.6 76.5 75.4	360° Rated Load (lbs) 100,800 * 100,800 * 96,500 * 88,500 * 80,200 72,400 66,300	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0	Boom Angle (deg.) 81.6 80.6 79.6 78.6 77.7 76.7 75.7	360° Rated Load (lbs) 98,700 * 94,200 * 88,000 * 79,900 72,200 66,100 61,100	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.9 75.9	360 Rated Load (lbs) 85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600
Load Padius (ft) 17.0 18.0 19.0 20.0 22.0 24.0	Boom Angle (deg.) 81.9 81.3 80.7 80.0 78.7 77.4	360 Rated Load (lbs) 125,800 * 125,800 * 124,000 * 112,500 * 100,800	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 28.0	Boom Angle (deg.) 81.6 81.0 79.9 78.7 77.5 76.3	360° Rated Load (lbs) 125,600 * 123,600 * 112,200 * 100,600 88,900 80,200	Load Radius (ft) 20.0 22.0 24.0 26.0 28.0 30.0	Boom Angle (deg.) 81.8 80.8 79.7 78.6 77.6 76.5	360° Rated Load (lbs) 100,800 * 100,800 * 96,500 * 88,500 * 80,200 72,400	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0	Boom Angle (deg.) 81.6 80.6 79.6 78.6 77.7 76.7	360 Rated Load (lbs) 98,700 * 94,200 * 88,000 * 72,200 66,100	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.9	360° Rated Load (lbs) 85,100 * 83,900 * 78,200 * 71,900 65,900 60,900
Load Radius (ft) 17.0 18.0 19.0 20.0 24.0 26.0 28.0 30.0 32.0	Boom Angle (deg.) 81.3 80.7 80.0 78.7 77.4 76.1 74.8 73.5 72.1	360 Rated Load (lbs) 125,800 * 125,800 * 125,800 * 125,800 * 112,500 * 100,800 * 89,100 * 80,500 72,800 66,600	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0	Boom Angle (deg.) 81.6 81.0 79.9 77.5 76.3 75.1 74.0 72.8 71.6	360 Rated Load (lbs) 125,600 * 123,600 * 112,200 * 100,600 88,900 80,200 72,400 66,300 61,300 57,000	Load Radius (ft) 20.0 24.0 24.0 28.0 30.0 32.0 34.0 36.0 38.0	Boom Angle (deg.) 81.8 80.8 79.7 78.6 77.6 76.5 75.4 74.3 73.2 72.2	360° Rated Load (lbs) 100,800 * 100,800 * 96,500 * 88,500 * 80,200 72,400 66,300 61,300 57,000 52,700	Load Radius (ft) 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0	Boom Angle (deg.) 81.6 80.6 79.6 78.6 77.7 76.7 75.7 74.7 73.7 72.7	360° Rated Load (lbs) 98,700 * 94,200 * 88,000 * 79,900 72,200 66,100 61,100 56,800 52,500 48,700	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.9 75.9 75.0 74.1 73.2	360° Rated Load (lbs) 85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 52,300 48,400 45,600
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0	Boom Angle (deg.) 81.9 81.3 80.7 80.0 78.7 77.4 76.1 74.8 73.5 72.1 70.8	360° Rated Load (lbs) 125,800 * 125,800 * 125,800 * 125,800 * 112,500 * 112,500 * 110,800 89,100 80,500 72,800 66,600 61,600	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0	Boom Angle (deg.) 81.6 81.0 79.9 78.7 77.5 76.3 75.1 74.0 72.8 71.6 70.3	360° Rated Load (lbs) 125,600 * 123,600 * 112,200 * 100,600 88,900 80,200 72,400 66,300 61,300 57,000 52,700	Load Radius (ft) 20.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0	Boom Angle (deg.) 81.8 80.8 79.7 78.6 77.6 75.4 74.3 73.2 72.2 71.1	360° Rated Load (lbs) 100,800 * 100,800 * 96,500 * 88,500 * 80,200 72,400 66,300 61,300 57,000 52,700 48,900	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 38.0 40.0 42.0	80.6 79.6 78.6 77.7 76.7 73.7 72.7 71.7	360° Rated Load (lbs) 98,700 * 94,200 * 88,000 * 79,900 66,100 61,100 56,800 52,500 48,700 45,800	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.9 75.9 75.0 74.1 73.2 72.2	360° Rated Load (lbs) 85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 52,300 48,400 45,600 42,800
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0	81.9 81.9 80.0 78.7 77.4 76.1 74.8 73.5 72.1 70.8 69.4	360° Rated Load (lbs) 125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800 89,100 80,500 72,800 66,600 61,600 57,300	Load Padius (ft) 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0	81.6 81.0 79.9 78.7 77.5 76.3 75.1 74.0 72.8 71.6 70.3 69.1	360° Rated Load (lbs) 125,600 * 123,600 * 112,200 * 100,600 88,900 80,200 72,400 66,300 61,300 57,000 52,700 43,900	Load Radius (ft) 20.0 22.0 24.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0	80.8 80.8 80.8 79.7 78.6 77.6 76.5 75.4 74.3 73.2 72.2 71.1 70.0	360° Rated Load (lbs) 100,800 * 100,800 * 96,500 * 88,500 * 80,200 66,300 61,300 57,000 52,700 48,900 46,200	Load Radius (ft) 22.0 24.0 26.0 26.0 30.0 32.0 34.0 36.0 40.0 42.0 44.0	80.6 80.6 79.6 78.6 77.7 76.7 75.7 74.7 72.7 71.7 70.7	360° Rated Load (lbs) 98,700 * 94,200 * 88,000 * 79,900 66,100 61,100 56,800 52,500 48,700 45,800 43,000	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0	81.3 80.4 79.5 78.6 77.7 76.9 75.9 75.9 74.1 73.2 72.2 71.3	360° Rated Load (lbs) 85,100 * 83,900 * 71,900 65,900 60,900 56,600 52,300 48,400 45,600 42,800 40,000
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0	Boom Angle (deg.) 81.9 81.3 80.7 80.0 78.7 77.4 76.1 74.8 73.5 72.1 70.8	360° Rated Load (lbs) 125,800 * 125,800 * 125,800 * 125,800 * 112,500 * 112,500 * 110,800 89,100 80,500 72,800 66,600 61,600	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0	Boom Angle (deg.) 81.6 81.0 79.9 78.7 77.5 76.3 75.1 74.0 72.8 71.6 70.3	360° Rated Load (lbs) 125,600 * 123,600 * 112,200 * 100,600 88,900 80,200 72,400 66,300 61,300 57,000 52,700	Load Radius (ft) 20.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0	Boom Angle (deg.) 81.8 80.8 79.7 78.6 77.6 75.4 74.3 73.2 72.2 71.1	360° Rated Load (lbs) 100,800 * 100,800 * 96,500 * 88,500 * 80,200 72,400 66,300 61,300 57,000 52,700 48,900	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 38.0 40.0 42.0	80.6 79.6 78.6 77.7 76.7 73.7 72.7 71.7	360° Rated Load (lbs) 98,700 * 94,200 * 88,000 * 79,900 72,200 66,100 61,100 56,800 52,500 48,700 45,800 43,000 40,200 38,300	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.9 75.9 75.0 74.1 73.2 72.2	360° Rated Load (lbs) 85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 52,300 48,400 45,600 42,800
Load Radius (ft) 17.0 18.0 19.0 20.0 24.0 26.0 28.0 30.0 34.0 36.0 38.0 40.0 42.0	80.7 81.9 81.3 80.7 80.7 77.4 76.1 74.8 73.5 72.1 70.8 69.4 68.0 66.6 65.2	360° Rated Load (lbs) 125,800 * 125,800 * 125,800 * 125,800 * 125,800 * 100,800 * 111,500 * 100,800 89,100 80,500 72,800 66,600 61,600 57,300 53,100 49,300 46,500	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 44.0 44.0	81.6 81.0 79.9 78.7 77.5 76.3 75.1 74.0 70.3 69.1 67.9 66.6 65.4	360° Rated Load (lbs) 125,600 * 123,600 * 112,200 * 100,600 88,900 80,200 72,400 66,300 61,300 57,000 52,700 48,900 46,200 43,400 40,700	Load Radius (ft) 20.0 24.0 24.0 28.0 30.0 32.0 34.0 36.0 40.0 44.0 46.0 48.0	80.0m Angle (deg.) 81.8 80.8 79.7 78.6 76.5 75.4 74.3 73.2 71.1 70.0 68.9 67.8	360° Rated Load (lbs) 100,800 * 100,800 * 96,500 * 88,500 * 80,200 72,400 66,300 61,300 57,000 52,700 48,900 46,200 43,400 40,700 38,700	Load Radius (ft) 22.0 26.0 28.0 30.0 34.0 36.0 38.0 40.0 42.0 44.0 48.0 50.0	81.6 80.6 79.6 78.6 77.7 76.7 74.7 73.7 72.7 71.7 69.7 68.6 67.6	360° Rated Load (lbs) 98,700 * 94,200 * 88,000 * 79,900 66,100 61,100 56,800 52,500 48,700 45,800 43,000 40,200 38,300 36,300	Load Padius (ft) 24.0 26.0 28.0 30.0 32.0 36.0 36.0 40.0 44.0 46.0 48.0 55.0	81.3 80.4 79.5 78.6 77.7 76.9 75.0 74.1 73.2 72.2 71.3 70.4 69.4 67.1	360° Rated Load (lbs) 85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 52,300 48,400 42,800 40,000 38,000 31,600
Load Radius (ft) 17.0 18.0 19.0 20.0 24.0 26.0 28.0 30.0 34.0 36.0 48.0 42.0 444.0	80.7 80.7 80.7 80.7 77.4 76.1 74.8 73.5 72.1 70.8 69.4 68.0 66.6 65.2 63.8	360° Rated Load (lbs) 125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800 89,100 80,500 72,800 66,600 61,600 57,300 53,100 49,300 46,500 43,700	Load Padius (ft) 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0 44.0 48.0	81.6 81.0 79.9 78.7 76.3 75.1 74.0 72.8 71.6 70.3 69.1 67.9 66.6 65.4 64.1	360° Rated Load (lbs) 125,600 * 123,600 * 112,200 * 100,600 88,900 80,200 72,400 66,300 61,300 57,000 52,700 48,900 46,200 43,400 40,700 38,700	Load Radius (ft) 20.0 24.0 24.0 28.0 30.0 32.0 34.0 36.0 44.0 46.0 48.0 50.0	80.8 79.7 78.6 77.6 75.4 74.3 73.2 71.1 70.0 68.9 66.6 65.4	360° Rated Load (lbs) 100,800 * 100,800 * 96,500 * 88,500 * 80,200 72,400 66,300 61,300 57,000 52,700 48,900 46,200 43,400 40,700 38,700 36,600	Load Radius (ft) 22.0 26.0 28.0 30.0 34.0 36.0 38.0 40.0 44.0 48.0 55.0	80.6 79.6 79.6 76.7 75.7 74.7 73.7 71.7 70.7 69.7 68.6 67.6 65.0	360° Rated Load (lbs) 98,700 * 94,200 * 88,000 * 79,900 66,100 61,100 56,800 52,500 48,700 45,800 43,000 40,200 36,300 36,300 32,000	Load Padius (ft) 24.0 28.0 30.0 32.0 36.0 36.0 40.0 44.0 48.0 50.0 60.0	80.0m Angle (deg.) 81.3 80.4 79.5 78.6 75.9 75.9 75.0 74.1 73.2 71.3 70.4 69.4 67.1 64.6	360° Rated Load (lbs) 85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 52,300 48,400 45,600 42,800 40,000 38,000 31,600 28,100
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 44.0 44.0	81.9 81.3 80.7 80.0 78.7 77.4 76.1 74.8 73.5 72.1 70.8 69.4 68.0 66.6 65.2 63.8 62.4	360° Rated Load (lbs) 125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800 89,100 80,500 72,800 66,600 61,600 57,300 53,100 49,300 40,900	Load Padius (ft) 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 44.0 44.0 48.0 50.0	81.6 81.0 79.9 78.7 77.5.3 75.1 74.0 72.8 71.6 67.9 66.6 65.4 64.1 62.8	360° Rated Load (lbs) 125,600 * 123,600 * 112,200 * 100,600 88,900 80,200 72,400 66,300 61,300 57,000 52,700 48,900 46,200 43,400 40,700 38,700 36,600	Load Padius (ft) 20.0 24.0 24.0 28.0 30.0 32.0 34.0 36.0 40.0 44.0 46.0 45.0 55.0	80.8 79.7 78.6 77.6 76.5 75.4 74.3 73.2 72.2 71.1 70.0 68.9 67.8 66.6 65.4 62.5	360° Rated Load (lbs) 100,800 * 100,800 * 96,500 * 88,500 * 80,200 66,300 61,300 57,000 52,700 48,900 44,200 43,400 40,700 38,700 36,6600 32,300	Load Padius (ft) 22.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 42.0 44.0 46.0 48.0 50.0 60.0	80.6 79.6 78.6 77.7 76.7 75.7 74.7 71.7 70.7 69.7 68.6 67.6 65.0 62.3	360° Rated Load (lbs) 98,700 * 94,200 * 88,000 * 79,900 72,200 66,100 61,100 56,800 52,500 48,700 45,800 43,000 40,200 38,300 36,300 32,000 28,300	Load Padius (ft) 24.0 28.0 30.0 32.0 34.0 40.0 44.0 48.0 50.0 60.0 65.0	80.0m Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.9 75.9 75.0 74.1 73.2 72.2 71.3 70.4 69.4 67.1 64.6 62.2	360° Rated Load (lbs) 85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 52,300 48,400 45,600 42,800 40,000 38,000 36,000 31,600 28,100 25,200
Load Radius (ft) 17.0 18.0 19.0 20.0 24.0 26.0 28.0 30.0 34.0 36.0 40.0 44.0 44.0 46.0 50.0	81.9 81.3 80.7 80.0 78.7 77.4 76.1 74.8 73.5 72.1 70.8 69.4 68.0 66.6 65.2 63.8 62.4 60.9 59.4	360° Rated Load (lbs) 125,800 * 125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800 89,100 80,500 72,800 66,600 61,600 57,300 53,100 49,300 46,500 43,700 40,900 38,900 36,900	Load Padius (ft) 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0 44.0 48.0	81.6 81.0 79.9 78.7 77.5 76.3 75.1 74.0 72.8 71.6 70.3 69.1 67.9 66.6 65.4 64.1 62.8 59.5 56.1	360° Rated Load (lbs) 125,600 * 123,600 * 112,200 * 100,600 88,900 80,200 72,400 66,300 61,300 57,000 52,700 48,900 46,200 43,400 40,700 38,700	Load Radius (ft) 20.0 24.0 24.0 28.0 30.0 32.0 34.0 36.0 44.0 46.0 48.0 50.0	81.8 80.8 79.7 78.6 77.6 77.6 76.5 77.4 74.3 73.2 72.2 71.1 70.0 68.9 67.8 66.6 65.4 62.5 59.5 56.5	360° Rated Load (lbs) 100,800 * 100,800 * 96,500 * 88,500 * 80,200 72,400 66,300 61,300 57,000 52,700 48,900 46,200 40,700 38,700 36,600 32,300 28,700 25,900	Load Radius (ft) 22.0 26.0 28.0 30.0 34.0 36.0 38.0 40.0 44.0 48.0 55.0	80.6 79.6 79.6 76.7 75.7 74.7 73.7 71.7 70.7 69.7 68.6 67.6 65.0	360° Rated Load (lbs) 98,700 * 94,200 * 88,000 * 79,900 72,200 66,100 61,100 56,800 52,500 48,700 45,800 43,000 40,200 38,300 36,300 32,000 28,300 25,400 23,200	Load Padius (ft) 24.0 28.0 30.0 32.0 36.0 36.0 40.0 44.0 48.0 50.0 60.0	80.0m Angle (deg.) 81.3 80.4 79.5 78.6 75.9 75.9 75.0 74.1 73.2 71.3 70.4 69.4 67.1 64.6	360° Rated Load (lbs) 85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 52,300 48,400 45,600 42,800 40,000 38,000 38,000 31,600 28,100 25,200 22,900 20,900
Load Radius (ft) 17.0 18.0 19.0 22.0 24.0 26.0 28.0 30.0 34.0 36.0 38.0 40.0 44.0 46.0 48.0 55.0	80.7 81.3 80.7 80.7 77.4 76.1 74.8 73.5 72.1 70.8 69.4 68.0 65.2 63.8 62.4 60.9 59.4 55.7	360° Rated Load (lbs) 125,800 * 125,800 * 125,800 * 125,800 * 125,800 * 112,500 * 112,500 * 112,500 * 112,500 * 112,500 * 10,800 66,600 61,600 57,300 53,100 49,300 46,500 43,700 40,900 33,900 36,900 332,500	Load Padius (ft) 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 44.0 44.0 46.0 48.0 50.0 60.0 65.0	800m Angle (deg.) 81.6 81.0 79.9 77.5 76.3 75.1 74.0 72.8 71.6 70.3 69.1 67.9 66.4 65.4 64.1 62.8 59.5 56.1 52.5	360° Rated Load (lbs) 125,600 * 123,600 * 112,200 * 100,600 88,900 80,200 72,400 66,300 61,300 52,700 48,900 40,200 43,400 40,700 38,700 36,600 32,300 28,700 25,900	Load Radius (ft) 20.0 24.0 24.0 28.0 30.0 32.0 34.0 36.0 44.0 48.0 55.0 60.0 65.0 70.0	80.0m Angle (deg.) 81.8 80.8 79.7 78.6 76.5 75.4 74.3 73.2 71.1 70.0 68.9 66.6 65.4 62.5 59.5 56.5 56.5 53.2	360° Rated Load (lbs) 100,800 * 100,800 * 96,500 * 88,500 * 80,200 72,400 66,300 61,300 57,000 52,700 48,900 46,200 43,400 40,700 36,600 32,300 28,700 25,900 23,500	Load Radius (ft) 22.0 26.0 28.0 30.0 34.0 36.0 44.0 46.0 48.0 50.0 55.0 60.0 75.0	80.6 79.6 79.6 77.7 75.7 74.7 73.7 71.7 70.7 69.6 67.6 65.0 62.3 59.6 56.8 53.8	360° Rated Load (lbs) 98,700 * 94,200 * 88,000 * 79,900 66,100 61,100 56,800 52,500 48,700 45,800 43,000 40,200 38,300 32,000 28,300 25,400 23,200 21,200	Load Padius (ft) 24.0 28.0 30.0 32.0 36.0 38.0 40.0 44.0 48.0 55.0 60.0 65.0 75.0 80.0	80.0m Angle (deg.) 81.3 80.4 79.5 77.7 76.9 75.9 75.0 74.1 73.2 71.3 70.4 69.4 67.1 64.6 62.2 59.6 57.0 54.3	360° Rated Load (lbs) 85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 52,300 48,400 45,600 42,800 40,000 38,000 36,000 31,600 28,100 25,200 22,900 20,900 19,000
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0 50.0 555.0 60.0	80.7 80.0 81.3 80.7 80.0 78.7 77.4 76.1 74.8 73.5 72.1 70.8 69.4 68.0 66.2 63.8 62.4 60.9 59.4 55.7 51.7	360° Rated Load (lbs) 125,800 * 125,800 * 125,800 * 124,000 * 1125,800 * 1124,000 * 1100,800 89,100 80,500 72,800 66,600 61,600 57,300 49,300 46,500 43,700 40,900 38,900 32,500 29,000	Load Padius (ft) 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 40.0 42.0 44.0 46.0 48.0 50.0 55.0 60.0 65.0 70.0	81.6 81.0 79.9 78.7 77.5 76.3 75.1 74.0 72.8 69.1 67.9 66.4 64.1 62.8 59.5 56.1 52.5 48.8	360° Rated Load (lbs) 125,600 * 123,600 * 112,200 * 100,600 88,900 80,200 72,400 66,300 61,300 57,000 52,700 48,900 40,200 43,400 40,700 38,700 36,600 32,300 28,700 25,900 23,500	Load Radius (ft) 20.0 24.0 24.0 28.0 30.0 32.0 34.0 36.0 44.0 46.0 48.0 55.0 60.0 75.0	80.8 79.7 78.6 77.6 75.4 74.3 73.2 71.1 70.0 68.9 67.6 65.4 62.5 59.5 56.5 53.2 49.9	360° Rated Load (lbs) 100,800 * 100,800 * 96,500 * 88,500 * 80,200 72,400 66,300 61,300 57,000 52,700 48,900 46,200 43,400 40,700 38,700 32,300 28,700 25,900 23,500 21,400	Load Radius (ft) 22.0 26.0 28.0 30.0 34.0 36.0 38.0 40.0 46.0 48.0 50.0 65.0 75.0 80.0	80.6 79.6 78.6 79.6 77.7 76.7 75.7 74.7 73.7 71.7 70.7 69.7 68.6 67.6 65.0 62.3 59.6 56.8 53.8 50.8	360° Rated Load (lbs) 98,700 * 94,200 * 88,000 * 79,900 66,100 61,100 56,800 52,500 48,700 45,800 43,000 40,200 38,300 36,300 32,000 28,300 25,400 23,200 19,400	Load Padius (ft) 24.0 28.0 30.0 32.0 33.0 36.0 38.0 40.0 48.0 55.0 60.0 65.0 70.0 80.0	80.0m Angle (deg.) 81.3 80.4 79.5 78.6 75.9 75.9 75.0 74.1 73.2 72.2 71.3 70.4 69.1 64.6 62.2 59.6 57.0 54.3	360° Rated Load (lbs) 85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 52,300 48,400 45,600 42,800 40,000 38,000 31,600 25,200 22,900 20,900 19,000 17,500
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 44.0 46.0 48.0 50.0 55.0 60.0	80.07 81.3 80.7 80.0 78.7 77.4 76.1 74.8 73.5 72.1 69.4 68.0 66.6 65.2 63.8 62.4 60.9 59.4 59.4 75.7 75.7 75.7	360° Rated Load (lbs) 125,800 * 125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800 * 89,100 * 80,500 * 72,800 * 66,600 * 61,600 * 57,300 * 53,100 * 49,300 * 40,900 * 38,900 * 36,900 * 32,500 * 29,000 * 26,100	Load Padius (ft) 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 40.0 44.0 44.0 45.0 65.0 67.0 75.0	81.6 81.0 79.9 78.7 77.5.3 75.1 74.0 72.8 69.1 67.9 66.6 65.4 64.1 62.8 59.5 56.1 52.5 48.8 44.8	360° Rated Load (lbs) 125,600 * 123,600 * 112,200 * 100,600 88,900 80,200 72,400 66,300 61,300 57,000 52,700 48,900 46,200 43,400 40,700 38,700 38,700 38,700 28,700 25,900 23,500 21,400	Load Padius (ft) 20.0 24.0 24.0 28.0 30.0 32.0 34.0 36.0 44.0 44.0 45.0 65.0 60.0 65.0 70.0 80.0	80.8 79.7 78.6 77.6.5 75.4 74.3 73.2 71.1 70.0 68.9 67.8 66.5 65.4 62.5 59.5 56.5 54.9 46.4	360° Rated Load (lbs) 100,800 * 100,800 * 96,500 * 88,500 * 80,200 72,400 66,300 61,300 57,000 48,900 48,900 440,700 38,700 36,600 32,300 28,700 25,900 21,400 119,600	Load Radius (ft) 22.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 44.0 46.0 48.0 50.0 65.0 70.0 75.0 85.0	80.6 79.6 78.6 77.7 76.7 75.7 74.7 73.7 71.7 70.7 69.7 68.6 67.6 65.0 62.3 59.6 56.8 53.8 50.8	360° Rated Load (lbs) 98,700 * 94,200 * 88,000 * 79,900 66,100 61,100 56,800 52,500 48,700 45,800 40,200 38,300 32,000 28,300 25,400 23,200 21,200 19,400 17,700	Load Padius (ft) 24.0 28.0 30.0 32.0 34.0 40.0 44.0 48.0 50.0 65.0 70.0 85.0 90.0	80.0m Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.9 75.9 75.0 74.1 73.2 72.2 71.3 70.4 69.4 67.1 64.6 62.2 59.6 57.0 51.6 48.7	360° Rated Load (lbs) 85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 52,300 48,400 45,600 42,800 40,000 38,000 36,000 31,600 28,100 25,200 22,900 20,900 19,000 17,500 16,100
Load Radius (ft) 17.0 18.0 19.0 20.0 24.0 26.0 38.0 34.0 36.0 38.0 40.0 44.0 44.0 46.0 55.0 60.0	80.7 80.0 81.3 80.7 80.0 78.7 77.4 76.1 74.8 73.5 72.1 70.8 69.4 68.0 66.2 63.8 62.4 60.9 59.4 55.7 51.7	360° Rated Load (lbs) 125,800 * 125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800 89,100 80,500 72,800 66,600 66,600 57,300 53,100 49,300 46,500 43,700 40,900 33,900 36,900 32,500 29,000 26,100 23,800	Load Padius (ft) 19.0 20.0 24.0 26.0 28.0 30.0 32.0 34.0 40.0 42.0 44.0 46.0 48.0 50.0 55.0 60.0 65.0 70.0	81.6 81.0 79.9 78.7 77.5 76.3 75.1 74.0 72.8 69.1 67.9 66.4 64.1 62.8 59.5 56.1 52.5 48.8	360° Rated Load (lbs) 125,600 * 123,600 * 112,200 * 100,600 88,900 61,300 57,000 46,200 43,400 40,700 38,700 25,900 25,900 21,400 19,600	Load Padius (ft) 20.0 24.0 24.0 26.0 30.0 30.0 36.0 38.0 40.0 48.0 55.0 65.0 70.0 85.0	80.8 79.7 78.6 77.6.5 77.4 74.3 73.2 71.1 70.0 68.9 67.8 66.5 65.4 62.5 59.5 56.5 53.2 49.9 46.4 42.6	360° Rated Load (lbs) 100,800 * 100,800 * 96,500 * 88,500 * 80,200 66,300 61,300 57,000 52,700 48,900 46,200 43,400 40,700 38,700 36,600 32,300 22,300 23,500 21,400 19,600 18,100	Load Padius (ft) 22.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 44.0 46.0 48.0 50.0 60.0 70.0 85.0 90.0	80.6 79.6 78.6 79.6 77.7 76.7 75.7 74.7 73.7 71.7 70.7 69.7 68.6 67.6 65.0 62.3 59.6 56.8 53.8 50.8	360° Rated Load (lbs) 98,700 * 94,200 * 88,000 * 79,900 72,200 66,100 61,100 56,800 52,500 48,700 45,800 43,000 40,200 38,300 32,000 28,300 25,400 23,200 21,200 17,700 16,500	Load Padius (ft) 24.0 28.0 30.0 32.0 33.0 36.0 38.0 40.0 48.0 55.0 60.0 65.0 70.0 80.0	80.0m Angle (deg.) 81.3 80.4 79.5 78.6 75.9 75.9 75.0 74.1 73.2 72.2 71.3 70.4 69.1 64.6 62.2 59.6 57.0 54.3	360° Rated Load (lbs) 85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 52,300 48,400 45,600 42,800 40,000 38,000 31,600 28,100 25,200 22,900 20,900 19,000 17,500 16,100 15,000
Load Radius (ft) 17.0 18.0 19.0 22.0 24.0 26.0 38.0 34.0 36.0 38.0 40.0 44.0 46.0 48.0 55.0 60.0 65.0 75.0 80.0	80.07 81.3 80.7 80.0 77.4 76.1 74.8 73.5 72.1 70.8 69.4 68.0 65.2 63.8 62.4 60.9 55.7 51.7 47.4 42.9 37.9	360° Rated Load (lbs) 125,800 * 125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800 89,100 80,500 72,800 66,600 61,600 57,300 53,100 49,300 46,500 43,700 40,900 38,900 36,900 32,500 29,000 26,100 23,800 21,800 20,100	Load Padius (ft) 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 34.0 42.0 44.0 46.0 48.0 50.0 65.0 70.0 75.0 80.0 85.0 90.0	800m Angle (deg.) 81.6 81.0 79.9 77.5 76.3 75.1 74.0 72.8 71.6 70.3 69.1 62.8 59.5 56.1 52.5 48.8 44.8 40.5 36.0 30.5	360° Rated Load (lbs) 125,600 * 123,600 * 112,200 * 100,600 88,900 80,200 72,400 66,300 61,300 57,000 52,700 48,900 46,200 43,400 40,700 38,700 36,600 32,300 28,700 25,900 23,500 21,400 19,600 18,100 16,900	Load Radius (ft) 20.0 24.0 24.0 28.0 30.0 32.0 34.0 36.0 44.0 48.0 55.0 65.0 670.0 75.0 80.0 90.0	80.8 79.7 78.6 77.6 76.5 75.4 74.3 73.2 71.1 70.0 68.9 66.6 65.4 62.5 59.5 56.5 53.2 49.9 46.4 42.6 38.6 34.1	360° Rated Load (lbs) 100,800 * 100,800 * 96,500 * 88,500 * 80,200 72,400 66,300 61,300 57,000 52,700 48,900 46,200 43,400 40,700 38,700 32,300 28,700 25,900 21,400 19,600 18,100 16,800 15,600	Load Radius (ft) 22.0 26.0 28.0 30.0 34.0 34.0 46.0 48.0 46.0 45.0 60.0 65.0 70.0 85.0 90.0 100.0	80.6 79.6 77.7 76.7 75.7 74.7 72.7 71.7 70.7 69.7 62.3 59.6 65.0 62.3 59.6 847.7 44.3 40.7 36.9	360° Rated Load (lbs) 98,700 * 94,200 * 88,000 * 79,900 66,100 61,100 56,800 52,500 48,700 45,800 40,200 38,300 32,000 28,300 28,300 25,400 23,200 21,200 19,400 17,700 16,500 15,300 14,200	Load Padius (ft) 24.0 28.0 30.0 32.0 36.0 38.0 40.0 44.0 48.0 55.0 65.0 75.0 80.0 85.0 90.0 110.0	80.0m Angle (deg.) 81.3 80.4 79.5 76.9 75.9 75.0 74.1 73.2 71.3 70.4 69.4 67.1 64.6 62.2 59.6 57.0 51.6 48.7 45.4	360° Rated Load (lbs) 85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 52,300 48,400 45,600 42,800 40,000 38,000 31,600 25,200 22,900 20,900 17,500 16,100 15,000 14,000 12,100
Load Radius (ft) 17.0 18.0 19.0 20.0 24.0 26.0 28.0 30.0 34.0 36.0 40.0 44.0 44.0 45.0 55.0 60.0 65.0 77.0 75.0	80.7 81.3 80.7 80.7 77.4 76.1 74.8 69.4 68.0 66.6 65.2 63.8 62.4 60.9 59.4 55.7 51.7 47.4 42.9 37.9	360° Rated Load (lbs) 125,800 * 125,800 * 125,800 * 125,800 * 125,800 * 112,500 * 100,800 89,100 80,500 72,800 66,600 61,600 57,300 49,300 49,300 40,900 38,900 32,500 29,000 26,100 23,800 21,800	Load Padius (ft) 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 44.0 44.0 46.0 48.0 50.0 65.0 70.0 75.0 80.0 85.0	800m Angle (deg.) 81.6 81.0 79.9 78.7 77.5 76.3 75.1 74.0 70.3 69.1 67.9 66.6 65.4 64.1 62.8 59.5 56.1 52.5 48.8 44.8 40.5 36.0	360° Rated Load (lbs) 125,600 * 123,600 * 112,200 * 100,600 88,900 80,200 72,400 66,300 61,300 52,700 48,900 40,700 38,700 36,600 32,300 22,300 23,500 21,400 19,600 18,100	Load Padius (ft) 20.0 24.0 24.0 28.0 30.0 32.0 34.0 36.0 44.0 48.0 55.0 60.0 65.0 70.0 85.0 90.0 100.0	80.8 79.7 78.6 77.6 75.4 74.3 73.2 71.1 70.0 68.9 67.6 65.4 62.5 59.5 56.5 53.2 49.9 46.4 42.6 38.6 34.1 29.1	360° Rated Load (lbs) 100,800 * 100,800 * 96,500 * 88,500 * 80,200 72,400 66,300 61,300 57,000 48,900 46,200 43,400 40,700 38,700 32,300 28,700 25,900 23,500 21,400 19,600 18,100 16,800 114,600	Load Radius (ft) 22.0 26.0 28.0 30.0 34.0 36.0 38.0 40.0 46.0 48.0 50.0 65.0 75.0 80.0 85.0 90.0 110.0	80.6 79.6 78.6 79.6 77.7 76.7 75.7 74.7 73.7 70.7 69.7 68.6 67.6 65.0 62.3 59.6 56.8 53.8 47.7 44.3 40.7 36.9 27.8	360° Rated Load (lbs) 98,700 * 94,200 * 88,000 * 79,900 66,100 61,100 56,800 52,500 48,700 45,800 40,200 38,300 36,300 32,000 28,300 25,400 23,200 21,200 19,400 17,700 16,500 15,300 14,200 12,600	Load Padius (ft) 24.0 28.0 30.0 32.0 33.0 36.0 38.0 40.0 48.0 55.0 65.0 70.0 85.0 95.0 100.0 110.0 120.0	80.4 79.5 78.6 77.7 76.9 75.9 75.0 74.1 73.2 72.2 71.3 70.4 69.1 64.6 62.2 59.6 57.0 54.3 48.7 45.6 42.4 26.6	360° Rated Load (lbs) 85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 52,300 48,400 45,600 42,800 40,000 38,000 31,600 25,200 22,900 20,900 19,000 15,000 15,000 12,100 10,800
Load Radius (ft) 17.0 18.0 19.0 20.0 24.0 26.0 30.0 32.0 34.0 36.0 40.0 44.0 46.0 48.0 50.0 65.0 70.0 75.0 80.0 85.0	80.07 81.3 80.7 80.0 77.4 76.1 74.8 73.5 72.1 70.8 69.4 68.0 65.2 63.8 62.4 60.9 55.7 51.7 47.4 42.9 37.9	360° Rated Load (lbs) 125,800 * 125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800 89,100 80,500 72,800 66,600 61,600 57,300 53,100 49,300 46,500 43,700 40,900 38,900 36,900 32,500 29,000 26,100 23,800 21,800 20,100	Load Padius (ft) 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 40.0 42.0 44.0 46.0 48.0 50.0 65.0 70.0 75.0 80.0 95.0	800m Angle (deg.) 81.6 81.0 79.9 77.5 76.3 75.1 74.0 72.8 71.6 70.3 69.1 62.8 59.5 56.1 52.5 48.8 44.8 40.5 36.0 30.5	360° Rated Load (lbs) 125,600 * 123,600 * 112,200 * 100,600 88,900 80,200 72,400 66,300 61,300 57,000 52,700 48,900 46,200 43,400 40,700 38,700 36,600 32,300 28,700 25,900 23,500 21,400 19,600 18,100 16,900	Load Padius (ft) 20.0 24.0 24.0 28.0 30.0 32.0 34.0 36.0 44.0 48.0 55.0 60.0 65.0 70.0 75.0 80.0 90.0 105.0	80.8 79.7 78.6 77.6 76.5 75.4 74.3 73.2 71.1 70.0 68.9 66.6 65.4 62.5 59.5 56.5 53.2 49.9 46.4 42.6 38.6 34.1	360° Rated Load (lbs) 100,800 * 100,800 * 96,500 * 88,500 * 80,200 72,400 66,300 61,300 57,000 52,700 48,900 46,200 43,400 40,700 38,700 32,300 28,700 25,900 21,400 19,600 18,100 16,800 15,600	Load Radius (ft) 22.0 26.0 28.0 30.0 34.0 36.0 38.0 40.0 46.0 48.0 50.0 65.0 75.0 85.0 90.0 910.0 115.0	80.6 79.6 77.7 76.7 75.7 74.7 72.7 71.7 70.7 69.7 62.3 59.6 65.0 62.3 59.6 847.7 44.3 40.7 36.9	360° Rated Load (lbs) 98,700 * 94,200 * 88,000 * 79,900 66,100 61,100 56,800 52,500 48,700 45,800 40,200 38,300 32,000 28,300 28,300 25,400 23,200 21,200 19,400 17,700 16,500 15,300 14,200	Load Padius (ft) 24.0 28.0 30.0 32.0 33.0 36.0 38.0 40.0 48.0 55.0 65.0 70.0 85.0 95.0 100.0 110.0 125.0	80.0m Angle (deg.) 81.3 80.4 79.5 76.9 75.9 75.0 74.1 73.2 71.3 70.4 69.4 67.1 64.6 62.2 59.6 57.0 51.6 48.7 45.4	360° Rated Load (lbs) 85,100 * 83,900 * 78,200 * 71,900 65,900 66,900 52,300 48,400 45,600 42,800 40,000 38,000 31,600 28,100 25,200 20,900 19,000 17,500 16,100 15,000 14,000 12,100

Note: Designed and rated to comply with ANSI Code B30.5 Capacities based on factors other than machine stability such as structural competence are shown by saterisk * in the charts.

Main Boom Lift Capacity

Full Counterweight: 69,000 lbs

Carbody Weight: 31,800

14	0' Boo	om	15	0' Boo	om	16	0' Boo	om	17	0' Boo	om	18	0' Boo	om
Load	Boom	360°	Load	Boom	36 <i>0</i> °	Load	Boom	360°	Load	Boom	360°	Load	Boom	360°
Radius	Angle	Rated Load	Radius	Angle	Rated Load	Radius	Angle	Rated Load	Radius	Angle	Rated Load	Radius	Angle	Rated Load
(ft)	(deg.)	(lbs)	(ft)	(deg.)	(lbs)	(ft)	(deg.)	(lbs)	(ft)	(deg.)	(lbs)	(ft)	(deg.)	(lbs)
24.0	81.9	72,900 *	26.0	81.7	62,200 *	28.0	81.5	50,200 *	30.0	81.3	44,500 *	30.0	81.8	39,300 *
26.0 28.0	81.1 80.3	71,800 * 70,800 *	28.0 30.0	80.9 80.1	61,300 * 60,400 *	30.0 32.0	80.8 80.1	50,100 * 49,700 *	32.0 34.0	80.7 80.0	43,900 * 43,200 *	32.0 34.0	81.2 80.5	38,800 * 38,200 *
30.0	79.4	69,000 *	32.0	79.4	59,400 *	34.0	79.4	49,200 *	36.0	79.3	42,500 *	36.0	79.9	37,600 *
32.0	78.6	64,700 *	34.0	78.6	57,200 *	36.0	78.6	48,500 *	38.0	78.6	41,900 *	38.0	79.2	37,000 *
34.0 36.0	77.8 76.9	60,500 56,200	36.0 38.0	77.8 77.0	54,100 * 51,000 *	38.0 40.0	77.9 77.2	47,800 * 46,600 *	40.0 42.0	77.9 77.2	41,200 * 40,600 *	40.0 42.0	78.6 77.9	36,400 * 35,800 *
38.0	76.9 76.1	52,000	40.0	76.3	48,000	42.0	76.4	44,300 *	44.0	76.5	40,000 *	44.0	77.9 77.2	35,800 * 35,100 *
40.0	75.2	48,200	42.0	75.5	45,200	44.0	75.6	42,100 *	46.0	75.8	39,300 *	46.0	76.6	34,500 *
42.0	74.4	45,400	44.0	74.7	42,400	46.0	74.9	39,800	48.0	75.1	37,400 *	48.0	75.9	33,900 *
44.0 46.0	73.5 72.7	42,600 39,800	46.0 48.0	73.9 73.1	39,600 37,500	48.0 50.0	74.1 73.4	37,800 35,800	50.0 55.0	74.4 72.6	35,400 * 31,200	50.0 55.0	75.3 73.7	33,300 * 30,800 *
48.0	71.8	37,800	50.0	72.3	35,500	55.0	71.5	31,400	60.0	70.9	27,600	60.0	72.0	27,400
50.0	71.0	35,800	55.0	70.3	31,200	60.0	69.6	27,800	65.0	69.1	24,600	65.0	70.3	24,400
55.0 60.0	68.8 66.6	31,400 27,800	60.0 65.0	68.2 66.2	27,600 24,800	65.0 70.0	67.7 65.8	25,000 22,600	70.0 75.0	67.3 65.4	22,300 20,300	70.0 75.0	68.6 66.9	21,900 19,900
65.0	64.3	25,000	70.0	64.0	22,400	75.0	63.8	20,500	80.0	63.5	18,500	80.0	65.2	18,100
70.0	62.0	22,600	75.0	61.9	20,300	80.0	61.8	18,700	85.0	61.6	16,800	85.0	63.4	16,600
75.0	59.7	20,500	80.0	59.6	18,500	85.0	59.7	17,000	90.0	59.7	15,400	90.0	61.6	15,200
80.0 85.0	57.3 54.8	18,700 17,200	85.0 90.0	57.4 55.2	17,000 15,700	90.0 95.0	57.6 55.4	15,700 14,500	95.0 100.0	57.8 55.8	14,300 13,300	95.0 100.0	59.8 57.9	14,000 12,900
90.0	52.2	15,900	95.0	52.8	14,400	100.0	53. 4	13,500	110.0	51.5	11,500	110.0	54.0	11.100
95.0	49.5	14,600	100.0	50.3	13,400	110.0	48.6	11,700	120.0	47.0	9,800	120.0	49.9	9,600
100.0	46.8	13,600	110.0	45.1	11,700	120.0	43.6	10,100	130.0	42.2 36.8	8,700	130.0	45.6	8,500
110.0 120.0	40.8 34.0	11,900 10,300	120.0 130.0	39.3 32.8	10,300 8,900	130.0 140.0	38.1 31.6	8,900 7,900	140.0 150.0	30.8 30.5	7,700 6,800	140.0 150.0	40.9 35.7	7,400 6,500
130.0	25.7	9,200	140.0	24.3	8,000	150.0	23.7	7,100	160.0	23.2	5,900	160.0	29.7	5,600
135.0	20.5	8,830										165.0	26.5	5,100
Ree	ves	4	Ree	ves	4	Rec	ves	2	Ree	ves	2	Ree	ves	2
						1400	100	_	1.00	100		1.00	100	-
	0' Boo	om		0' Boo	om 💮	160			100	100		150		
19 Load	0' Boom	om 360°	20 Load	0' Boom	om 360°	160	Ves						, ves	
Load Radius	0' Boom Boom Angle	360° Rated Load	20 Load Radius	0' Boom Boom Angle	360° Rated Load									
Load Radius (ft)	O' Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	O' Boom Angle (deg.)	360° Rated Load (lbs)									
Load Radius (ft)	O' Boom Angle (deg.)	360° Rated Load (lbs) 34,400 *	Load Radius (ft) 34.0	O' Boom Angle (deg.) 81.5	360° Rated Load (lbs) 30,300 *									
19 Load Radius (ft) 32.0 34.0	O' Boom Angle (deg.) 81.6 81.0	360° Rated Load (lbs) 34,400 * 33,800 *	20 Load Radius (ft) 34.0 36.0	O' Boom Angle (deg.) 81.5 80.9	360° Rated Load (lbs)									
Load Radius (ft) 32.0 34.0 36.0 38.0	Boom Angle (deg.) 81.6 81.0 80.4 79.8	360° Rated Load (lbs) 34,400 * 33,800 * 33,300 * 32,700 *	20 Load Radius (ft) 34.0 36.0 38.0 40.0	81.5 80.3 79.7	360° Rated Load (lbs) 30,300 * 29,700 * 29,200 * 28,700 *									
19 Load Radius (ft) 32.0 34.0 36.0 38.0 40.0	Boom Angle (deg.) 81.6 81.0 80.4 79.8 79.2	360° Rated Load (lbs) 34,400 * 33,800 * 32,700 * 32,200 *	20 Load Radius (ft) 34.0 36.0 38.0 40.0 42.0	Boom Angle (deg.) 81.5 80.9 80.3 79.7 79.1	360° Rated Load (lbs) 30,300 * 29,700 * 29,200 * 28,700 * 28,200 *									
19 Load Radius (ft) 32.0 34.0 36.0 38.0 40.0 42.0	81.6 81.0 80.4 79.8 79.2 78.6	360° Rated Load (lbs) 34,400 * 33,800 * 32,700 * 32,200 * 31,700 *	20 Load Radius (ft) 34.0 36.0 38.0 40.0 42.0 44.0	81.5 80.9 80.3 79.7 79.1 78.6	360° Rated Load (lbs) 30,300 * 29,700 * 29,200 * 28,700 * 28,200 * 27,700 *									
19 Load Radius (ft) 32.0 34.0 36.0 38.0 40.0	Boom Angle (deg.) 81.6 81.0 80.4 79.8 79.2	360° Rated Load (lbs) 34,400 * 33,800 * 32,700 * 32,200 *	20 Load Radius (ft) 34.0 36.0 38.0 40.0 42.0	Boom Angle (deg.) 81.5 80.9 80.3 79.7 79.1	360° Rated Load (lbs) 30,300 * 29,700 * 29,200 * 28,700 * 28,200 * 27,700 * 27,300 *	160			1800					
Load Radius (ft) 32.0 34.0 36.0 38.0 40.0 42.0 44.0 48.0	Boom Angle (deg.) 81.6 81.0 80.4 79.2 78.6 78.0 77.4 76.7	360° Rated Load (lbs) 34,400 * 33,800 * 32,700 * 32,200 * 31,700 * 31,100 * 30,600 * 30,100 *	Load Radius (ft) 34.0 36.0 38.0 40.0 42.0 44.0 46.0 50.0	Boom Angle (deg.) 81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4 76.8	360° Rated Load (lbs) 30,300 * 29,700 * 29,200 * 28,700 * 27,700 * 27,300 * 26,300 * 26,300 *	160								
Load Radius (ft) 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 50.0	81.6 81.0 80.4 79.8 79.2 78.6 77.4 76.7	360° Rated Load (lbs) 34,400 * 33,800 * 32,700 * 32,700 * 31,700 * 31,100 * 30,600 * 30,100 * 29,600 *	Load Radius (ft) 34.0 36.0 38.0 40.0 42.0 44.0 46.0 50.0 55.0	81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4 76.8 75.3	360° Rated Load (lbs) 30,300 * 29,700 * 29,200 * 28,700 * 28,200 * 27,700 * 26,800 * 26,300 * 24,900 *	160								
Load Radius (ft) 32.0 34.0 36.0 38.0 40.0 44.0 46.0 48.0 55.0	81.6 81.0 80.4 79.2 78.6 78.0 77.4 76.1 74.5	360° Rated Load (lbs) 34,400 * 33,800 * 33,300 * 32,700 * 31,700 * 31,100 * 30,600 * 30,100 * 29,600 * 28,100 *	20 Load Radius (ft) 34.0 36.0 38.0 40.0 44.0 46.0 48.0 50.0 60.0	80.9 80.7 81.5 80.9 80.9 79.1 78.6 78.0 77.4 76.8 75.3 73.8	360° Rated Load (lbs) 30,300 * 29,700 * 29,200 * 28,700 * 27,300 * 26,800 * 26,300 * 24,900 * 23,200 *	160								
Load Radius (ft) 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 50.0	81.6 81.0 80.4 79.8 79.2 78.6 77.4 76.7	360° Rated Load (lbs) 34,400 * 33,800 * 32,700 * 32,700 * 31,700 * 31,100 * 30,600 * 30,100 * 29,600 *	Load Radius (ft) 34.0 36.0 38.0 40.0 42.0 44.0 46.0 50.0 55.0	81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4 76.8 75.3	360° Rated Load (lbs) 30,300 * 29,700 * 29,200 * 28,700 * 28,200 * 27,700 * 26,800 * 26,300 * 24,900 *									
Load Radius (ft) 32.0 34.0 36.0 38.0 40.0 42.0 44.0 55.0 60.0 67.0	0' Boom Angle (deg.) 81.6 81.0 80.4 79.8 79.2 78.6 78.0 77.4 76.7 76.1 74.5 73.0 71.4 69.8	360° Rated Load (lbs) 34,400 * 33,800 * 33,300 * 32,700 * 32,200 * 31,700 * 30,600 * 30,100 * 29,600 * 28,100 * 26,200 * 24,000 * 21,800	20 Load Radius (ft) 34.0 36.0 38.0 42.0 44.0 46.0 48.0 50.0 55.0 60.0 65.0 75.0	80.3 80.3 80.3 79.7 79.1 78.6 78.0 77.4 76.8 75.3 73.8 70.9 69.3	360° Rated Load (lbs) 30,300 * 29,700 * 29,200 * 27,700 * 27,300 * 26,800 * 24,900 * 23,200 * 21,500 * 20,000 * 18,500 *									
Load Radius (ft) 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 55.0 65.0 670.0 75.0	80.4 Room Angle (deg.) 81.6 81.0 80.4 79.2 78.6 78.0 77.4 76.1 74.5 73.0 71.4 69.8 68.2	360° Rated Load (lbs) 34,400 * 33,800 * 33,300 * 32,700 * 31,700 * 31,100 * 30,600 * 29,600 * 28,100 * 26,200 * 21,800 19,900	Load Radius (ft) 34.0 36.0 38.0 40.0 42.0 44.0 46.0 45.0 55.0 60.0 65.0 70.0 80.0	80.9 81.5 80.9 80.9 79.1 78.6 78.0 77.4 76.8 75.3 73.8 72.4 69.3 67.8	360° Rated Load (lbs) 30,300 * 29,700 * 29,200 * 27,700 * 27,300 * 26,300 * 24,900 * 23,200 * 21,500 * 18,500 * 17,100 *									
Load Radius (ft) 32.0 34.0 34.0 38.0 40.0 44.0 46.0 48.0 55.0 65.0 70.0 80.0	81.6 81.0 80.4 79.2 78.6 78.0 77.4 76.1 74.5 73.0 71.4 69.8 68.2 66.5	360° Rated Load (lbs) 34,400 * 33,800 * 33,300 * 32,2700 * 31,700 * 31,100 * 30,600 * 29,600 * 28,100 * 26,200 * 24,000 * 24,000 * 21,800 19,900 18,000	20 Load Radius (ft) 34.0 36.0 38.0 40.0 44.0 46.0 48.0 50.0 65.0 70.0 75.0 65.0 75.0 85.0	80.9 80.9 81.5 80.9 80.9 79.1 78.6 78.0 77.4 76.8 75.3 73.8 72.4 70.9 69.3 67.8 66.2	360° Rated Load (lbs) 30,300 * 29,700 * 29,200 * 28,700 * 27,300 * 26,800 * 26,300 * 21,500 * 21,500 * 18,500 * 17,100 * 15,900 *									
Load Radius (ft) 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 55.0 65.0 670.0 75.0	80.4 Room Angle (deg.) 81.6 81.0 80.4 79.2 78.6 78.0 77.4 76.1 74.5 73.0 71.4 69.8 68.2	360° Rated Load (lbs) 34,400 * 33,800 * 33,300 * 32,700 * 32,200 * 31,700 * 31,100 * 30,600 * 30,100 * 29,600 * 28,100 * 24,000 * 24,000 * 21,800 19,900 18,000 16,400	Load Radius (ft) 34.0 36.0 38.0 40.0 42.0 44.0 46.0 45.0 55.0 60.0 65.0 70.0 80.0	80.9 81.5 80.9 80.9 79.1 78.6 78.0 77.4 76.8 75.3 73.8 72.4 69.3 67.8	360° Rated Load (lbs) 30,300 * 29,700 * 29,200 * 27,700 * 27,300 * 26,300 * 24,900 * 23,200 * 21,500 * 18,500 * 17,100 *									
Load Radius (ft) 32.0 34.0 36.0 38.0 40.0 42.0 44.0 650.0 65.0 75.0 85.0 90.0	81.6 81.0 80.4 79.8 79.2 78.6 78.0 77.4 76.7 76.1 74.5 73.0 69.8 68.2 66.5 64.9 63.2 61.5	360° Rated Load (lbs) 34,400 * 33,800 * 33,300 * 32,700 * 32,700 * 31,700 * 31,100 * 29,600 * 28,100 * 26,200 * 21,800 19,900 18,000 16,400 15,000 13,900	20 Load Radius (ft) 34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0 50.0 55.0 60.0 65.0 70.0 90.0 95.0 100.0	80.3 80.3 79.7 79.1 78.6 78.0 77.4 76.8 75.3 73.8 70.9 69.3 67.8 66.2 64.6 63.0 61.4	360° Rated Load (lbs) 30,300 * 29,700 * 29,200 * 28,700 * 27,700 * 27,300 * 26,300 * 24,900 * 23,200 * 21,500 * 17,100 * 15,900 * 14,700 13,500 12,400									
Load Radius (ft) 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 55.0 65.0 670.0 75.0 80.0 85.0 90.0 95.0	80.4 79.8 79.2 78.6 78.0 77.4 76.1 74.5 73.0 68.2 66.5 64.9 63.2 61.5 59.7	360° Rated Load (lbs) 34,400 * 33,800 * 33,300 * 32,2700 * 31,100 * 30,600 * 29,600 * 28,100 * 26,200 * 21,800 19,900 18,000 15,000 13,900 12,900	Load Radius (ft) 34.0 36.0 38.0 40.0 42.0 44.0 46.0 50.0 55.0 60.0 65.0 70.0 85.0 90.0 91.0 110.0	80.9 81.5 80.9 81.5 79.1 78.6 78.0 77.4 76.8 75.3 73.8 72.9 69.3 67.8 66.2 64.6 63.0 61.4 58.1	360° Rated Load (lbs) 30,300 * 29,700 * 29,200 * 28,200 * 27,700 * 26,300 * 24,900 * 23,200 * 21,500 * 12,400 11,500 13,500 12,400 10,600									
Load Radius (ft) 32.0 34.0 36.0 38.0 40.0 44.0 44.0 55.0 65.0 65.0 70.0 85.0 95.0 100.0 110.0	81.6 81.0 81.6 81.0 81.6 79.2 78.6 78.0 77.4 76.7 76.7 76.7 74.5 73.0 71.4 69.8 68.2 66.5 64.9 63.2 61.5 59.7 56.2	360° Rated Load (lbs) 34,400 * 33,800 * 33,800 * 32,700 * 32,200 * 31,700 * 31,100 * 30,600 * 29,600 * 24,000 * 24,000 * 21,800 19,900 16,400 15,000 13,900 12,900 11,000	Load Radius (ft) 34.0 36.0 38.0 40.0 42.0 44.0 50.0 55.0 60.0 75.0 80.0 90.0 90.0 100.0 110.0 120.0	81.5 80.9 81.5 80.9 80.3 79.7 79.1 78.6 77.4 76.8 75.3 72.4 70.9 69.3 67.8 66.2 64.6 63.0 61.4 58.1 54.6	360° Rated Load (lbs) 30,300 * 29,700 * 29,200 * 28,700 * 26,300 * 26,300 * 24,900 * 21,500 * 20,000 * 18,500 * 17,100 * 15,900 * 14,700 13,500 12,400 10,600 9,200									
Load Radius (ft) 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 55.0 65.0 670.0 75.0 80.0 85.0 90.0 95.0	80.4 79.8 79.2 78.6 78.0 77.4 76.1 74.5 73.0 68.2 66.5 64.9 63.2 61.5 59.7	360° Rated Load (lbs) 34,400 * 33,800 * 33,300 * 32,2700 * 31,100 * 30,600 * 29,600 * 28,100 * 26,200 * 21,800 19,900 18,000 15,000 13,900 12,900	Load Radius (ft) 34.0 36.0 38.0 40.0 42.0 44.0 46.0 50.0 55.0 60.0 65.0 70.0 85.0 90.0 91.0 110.0	80.9 81.5 80.9 81.5 79.1 78.6 78.0 77.4 76.8 75.3 73.8 72.9 69.3 67.8 66.2 64.6 63.0 61.4 58.1	360° Rated Load (lbs) 30,300 * 29,700 * 29,200 * 28,200 * 27,700 * 26,300 * 24,900 * 23,200 * 21,500 * 12,400 11,500 13,500 12,400 10,600									
Load Radius (ft) 32.0 34.0 36.0 38.0 40.0 42.0 44.0 65.0 65.0 75.0 85.0 90.0 95.0 110.0 120.0 130.0 140.0	81.6 81.0 80.4 79.8 79.2 78.6 78.0 77.4 76.7 76.1 74.5 73.0 68.2 66.5 64.9 63.2 61.5 59.7 56.2 59.7 56.2 54.3	360° Rated Load (lbs) 34,400 * 33,800 * 33,300 * 32,700 * 32,700 * 31,700 * 31,100 * 29,600 * 28,100 * 28,100 * 21,800 19,900 18,000 15,000 15,000 11,000 9,400 8,200 7,200	20 Load Radius (ft) 34.0 36.0 38.0 42.0 44.0 46.0 48.0 50.0 55.0 60.0 75.0 80.0 75.0 100.0 110.0 110.0 130.0 150.0	80.3 79.7 79.1 78.6 78.0 77.4 76.8 75.3 73.8 70.9 69.3 67.8 66.2 64.6 63.0 61.4 58.1 54.6 51.1 47.2 43.1	360° Rated Load (lbs) 30,300 * 29,700 * 29,200 * 28,700 * 27,700 * 26,300 * 24,900 * 23,200 * 21,500 * 17,100 * 15,900 * 14,700 13,500 12,400 10,600 9,200 7,800 6,500 5,200 *									
Load Radius (ft) 32.0 34.0 36.0 38.0 40.0 42.0 44.0 45.0 55.0 65.0 65.0 90.0 110.0 120.0 130.0 150.0	80.4 Rose Rose Rose Rose Rose Rose Rose Rose	360° Rated Load (lbs) 34,400 * 33,800 * 33,300 * 32,700 * 31,700 * 31,100 * 29,600 * 28,100 * 26,200 * 21,800 19,900 18,000 15,000 15,000 11,000 9,400 8,200 7,200 6,300	20 Load Padius (ft) 34.0 36.0 38.0 42.0 44.0 46.0 55.0 60.0 65.0 75.0 80.0 95.0 100.0 110.0 120.0 130.0 140.0	80.5 80.9 81.5 80.3 79.7 79.1 78.6 78.0 77.4 76.8 75.3 73.8 72.4 70.9 69.3 67.8 66.2 63.0 61.4 58.1 54.1 54.1 54.2	360° Rated Load (lbs) 30,300 * 29,700 * 29,200 * 28,700 * 27,700 * 27,300 * 26,300 * 24,900 * 21,500 * 17,100 * 15,900 * 14,700 13,500 12,400 10,600 9,200 7,800 6,500									
Load Radius (ft) 32.0 34.0 36.0 38.0 40.0 44.0 44.0 60.0 65.0 70.0 75.0 80.0 95.0 100.0 120.0 130.0 140.0 150.0 160.0	81.6 81.0 81.6 81.0 81.0 79.8 79.2 78.0 77.4 76.7 76.7 76.7 76.5 73.0 71.4 69.8 68.2 61.5 59.7 56.2 59.7 56.2 48.5 44.3 39.7 34.8	360° Rated Load (lbs) 34,400 * 33,800 * 33,300 * 32,700 * 32,200 * 31,700 * 31,100 * 29,600 * 28,100 * 24,000 * 24,000 * 21,800 19,900 18,000 15,000 13,900 12,900 11,000 9,400 8,200 7,200 6,300 5,300	20 Load Radius (ft) 34.0 36.0 38.0 42.0 44.0 46.0 48.0 50.0 55.0 60.0 75.0 80.0 75.0 100.0 110.0 110.0 130.0 150.0	80.3 79.7 79.1 78.6 78.0 77.4 76.8 75.3 73.8 70.9 69.3 67.8 66.2 64.6 63.0 61.4 58.1 54.6 51.1 47.2 43.1	360° Rated Load (lbs) 30,300 * 29,700 * 29,200 * 28,700 * 27,700 * 26,300 * 24,900 * 23,200 * 21,500 * 17,100 * 15,900 * 14,700 13,500 12,400 10,600 9,200 7,800 6,500 5,200 *									
Load Radius (ft) 32.0 34.0 36.0 38.0 40.0 44.0 44.0 55.0 65.0 70.0 75.0 85.0 90.0 95.0 100.0 120.0 130.0 140.0 150.0 165.0	80.4 Rose Rose Rose Rose Rose Rose Rose Rose	360° Rated Load (lbs) 34,400 * 33,800 * 33,300 * 32,700 * 31,700 * 31,100 * 29,600 * 28,100 * 26,200 * 21,800 19,900 18,000 15,000 15,000 11,000 9,400 8,200 7,200 6,300	Load Radius (ft) 34.0 36.0 38.0 40.0 42.0 44.0 50.0 55.0 60.0 75.0 80.0 90.0 95.0 100.0 110.0 130.0 155.0	80.3 79.7 79.1 78.6 78.0 77.4 76.8 75.3 73.8 70.9 69.3 67.8 66.2 64.6 63.0 61.4 58.1 54.6 51.1 47.2 43.1	360° Rated Load (lbs) 30,300 * 29,700 * 29,200 * 28,700 * 27,700 * 26,300 * 24,900 * 23,200 * 21,500 * 17,100 * 15,900 * 14,700 13,500 12,400 10,600 9,200 7,800 6,500 5,200 *									

Note: Designed and rated to comply with ANSI Code B30.5 Capacities based on factors other than machine stability such as structural competence are shown by asterisk * in the charts.



Fixed Jib Lift Capacity

	b Li																						
	80	' Boor																					
			ft Jib	log 1					t Jib	log)				50 t Set An	ft Ji b	001					t Ji b	000 1	
	10	O set An	igie (u	eg.) 30)		10) set An	gie (u	eg.) 30			10) Set At	igie (u	eg.) 30			10		igie (a	eg.) 30	
Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Padius (ft)	Boom	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)
30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 90.0 95.0	79.3 78.0 77.0 75.9 74.9 73.8 71.1 68.3 65.3 62.4 59.3 56.2 52.8 49.3 45.7 41.8 37.2 32.4	24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 18,910 17,370 16,020 14,850 13,750 12,830	38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0	79.6 78.5 75.7 72.8 69.7 63.6 60.3 56.7 53.1	21,000* 21,000* 20,700* 19,510* 18,380* 17,500* 16,710* 16,020* 15,380* 14,850*	34.0 36.0 38.0 40.0 45.0 50.0 65.0 70.0 75.0 80.0 95.0 100.0 110.0	79.3 78.3 77.4 76.4 73.9 66.1 63.4 60.6 57.6 54.6 51.5 48.3 44.6 40.8 36.7 32.1	24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 19,180* 17,870* 16,660* 15,670* 14,810* 14,040* 13,310* 12,690* 12,120 11,350*	45.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	79.7 77.1 74.3 71.6 68.8 65.9 62.7 59.6 56.3 52.9	15,360* 14,480* 13,640* 12,980* 12,360* 11,350* 10,930* 10,560* 10,250*	38.0 40.0 45.0 55.0 65.0 75.0 85.0 90.0 95.0 105.0 115.0	79.3 78.4 76.1 73.8 71.3 68.9 66.5 64.0 61.3 58.7 56.0 46.9 43.6 40.0 35.8	20,000* 20,000* 20,000* 18,560* 17,080* 14,720* 13,710* 12,140* 11,500* 10,360* 9,890* 9,470* 9,080*	55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0	78.0 75.5 73.0 70.4 67.6 64.8 62.0 59.0 55.6 52.3	11,080* 10,490* 9,980* 9,540* 9,100* 8,730* 8,420* 8,130* 7,840* 7,620*	40.0 45.0 50.0 65.0 65.0 770.0 75.0 80.0 85.0 90.0 95.0 110.0 115.0 120.0 125.0	79.8 77.7 75.6 69.0 66.7 64.3 61.9 59.5 57.0 54.2 51.5 48.7 42.3 38.8 35.1	18,000* 18,000* 17,850* 16,180* 14,850* 13,730* 12,760* 11,130* 10,470* 9,870* 9,320* 8,860* 8,440* 8,060* 7,690* 7,380* 7,120*	60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 110.0	78.7 76.4 74.1 71.5 69.0 66.5 63.9 60.9 58.1 55.0 51.8	8,950 8,480 8,060 7,670 7,340 6,760 6,500 6,100 5,930
Ree	ves	1	Rec	ves	1	Ree	ves	1	Rec	eves	1	Ree	ves	1	Ree	ves	1	Ree	eves	1	Ree	ves	1
	90	' Boor	n																				
		301																					
	(ft J ib						t J ib						ft Ji b						t Ji b		
Load Radius	10) set Ar						40 f Set An		· ·				50 t O set Ar						O set An		<u> </u>	
(ft)	Boom Angle (deg.)	Pated Load (lbs)		Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)		30 Boom	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)		eg.) 30 Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Pated Load (lbs)		eg.) 30 Boom Angle (deg.)	Rated Load (lbs)
	Room Angle (deg.) 79.1 78.1 77.1 76.2 75.2 72.7 70.2 67.5 64.9 62.2 59.4 53.5 50.4 47.1 43.4 39.7	Rated Load	Load Radius	30 Boom Angle	Rated Load	Radius	70.4 46.0 42.7 39.1	Rated Load	gle (d Load Radius	30 Boom Angle	Load	Radius	10 Boom Angle	Pated Load	ngle (d Load Radius	78.9 76.7 74.4 72.0 69.5 67.0 64.5 61.8 58.9 56.1	Load	Radius	10 Boom Angle	Set Ar	gle (d Load Radius	30 Boom Angle (deg.) 79.5 77.4 75.3 72.9 70.7 68.4 66.0 63.4 60.9 58.3 55.5	Load

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

Capacities based on factors other than machine stability such as structural competence are shown by asterisk * in the charts. Refer to notes on page 20.

Bigge

Fixed Jib Lift Capacity

Full Counterweight: 69,000 lbs Carbody Weight: 31,800

	100)' Boo	m																				
			t J ib					40 t	t J ib					50 f	t J ib					601	ft Ji b		
		O set An	gle (d	<u> </u>				o set An	gle (d	<u> </u>				O set An	gle (d	-				O set Ar	ngle (d	<u> </u>	
Load	10 Boom	Rated	Load	30 Boom	Rated	Load	10 Boom	Rated	Load	30 Boom	Rated	Load	10 Boom	Rated	Load	30 Boom	Rated	Load	10 Boom	Rated	Load	30 Boom	Rated
Radius (ft)	Angle (deg.)	Load (lbs)	Radius (ft)	Angle (deg.)	Load (lbs)	Radius (ft)	Angle (deg.)	Load (lbs)	Radius (ft)	Angle (deg.)	Load (lbs)	Radius (ft)	Angle (deg.)	Load (lbs)	Radius (ft)	Angle (deg.)	Load (lbs)	Radius (ft)	Angle (deg.)	Load (lbs)	Radius (ft)	Angle (deg.)	Load (lbs)
32.0	79.9	24,000*				36.0	80.0	24,000*				40.0	79.9	20,000*				45.0	79.3	18,000*			
34.0	79.0 78.1	24,000 * 24,000*				38.0 40.0	79.2 78.4	24,000 * 24,000*				45.0 50.0	78.0 76.0	20,000*				50.0 55.0	77.5 75.5	18,000* 17,720*			
36.0 38.0	77.2	24,000* 24,000*				40.0 45.0	76.4 76.3	24,000* 24,000*				55.0	76.0 73.9	20,000* 20,000 *	55.0	79.7	11,500*	60.0	73.7	16,350*			
40.0	76.4	24,000*				50.0	74.2	24,000*	50.0	79.1	15,100*	60.0	71.9	18,930*	60.0	77.7	10,950*	65.0	71.8	15,160*	65.0	78.3	8,810*
45.0	74.1	24,000*	45.0	78.0	21,000*	55.0	71.9	24,000*	55.0	76.7	14,320*	65.0	69.9	17,590*	65.0	75.5	10,470*	70.0	69.9	14,130*	70.0	76.3	8,420*
50.0 55.0	71.8 69.3	24,000* 24,000 *	50.0 55.0	75.7 73.2	20,650* 19,570 *	60.0 65.0	69.7 67.5	23,280* 21,620 *	60.0 65.0	74.5 72.2	13,660* 13,090 *	70.0 75.0	67.8 65.6	16,420* 15,340 *	70.0 75.0	73.4 71.1	10,030* 9,610 *	75.0 80.0	67.8 65.8	13,160* 12,360 *	75.0 80.0	74.2 72.1	8,040* 7,710 *
60.0	67.0	24,000*	60.0	70.7	18,690*	70.0	65.3	20,190*	70.0	69.9	12,560*	80.0	63.4	14,440*	80.0	68.8	9,230*	85.0	63.8	11,660*	85.0	70.0	7,420*
65.0	64.5	22,440	65.0	68.2	17,900*	75.0	62.8	18,620	75.0	67.3	12,050*	85.0	61.2	13,640*	85.0	66.5	8,920*	90.0	61.7	11,040*	90.0	67.9	7,160*
70.0 75.0	62.1 59.4	20,320 18,400	70.0 75.0	65.7 62.9	17,190* 16,510 *	80.0 85.0	60.4 58.0	17,060 15,710	80.0 85.0	64.9 62.4	11,640* 11,260 *	90.0 95.0	59.0 56.5	12,910* 12,230 *	90.0 95.0	64.2 61.6	8,610* 8,330 *	95.0 100.0	59.5 57.3	10,420* 9,920 *	95.0 100.0	65.5 63.2	6,900* 6,670 *
80.0	56.7	16,860	80.0	60.2	15,960*	90.0	55.5	14,500	90.0	59.8	10,910*	100.0	54.1	11,660*	100.0	59.1	8,090*	105.0	55.1	9,450*	105.0	60.9	6,450*
85.0	54.0	15,520	85.0	57.4	15,450*	95.0	52.8	13,380	95.0	56.9	10,580*	105.0	51.6	11,150*	105.0	56.4	7,870*	110.0	52.7	9,030*	110.0	58.4	6,280*
90.0	51.2	14,320	90.0	54.5	14,570	100.0	50.1	12,450	100.0	54.0	10,310*	110.0	49.0	10,670*	110.0	53.7	7,690*	115.0	50.2	8,610*	115.0	55.7	6,100*
95.0 100.0	48.1 45.0	13,220 12,270	95.0	51.2	13,420	105.0 110.0	47.2 44.3	11,590 10,840				115.0 120.0	46.1 43.2	10,200 * 9,590				120.0 125.0	47.7 45.1	8,280* 7,950*	120.0	53.1	5,950*
105.0	41.7	11,460				115.0	40.9	10,110				125.0	40.2	9,010				130.0	42.3	7,670*			
110.0	38.1	10,690				120.0	37.4	9,470				130.0	36.8	8,480				135.0	39.4	7,400*			
115.0	34.0	9,980				125.0	33.7	8,860*				135.0	33.2	7,800*				140.0 145.0	35.9 32.4	7,140* 6,810*			
																		5.0	52	0,0.0			
Ree	ves	1	Ree	ves	1	Ree	ves	1	Ree	ves	1	Ree	ves	1	Ree	ves	1	Ree	ves	1	Ree	ves	1
	110)' Boo	m		'							'		•									
			t J ib					40 t	t J ib					50 f	t Jib					601	ft J ib		
		O set An	gle (d	<u> </u>				O set An	gle (d	<u> </u>				O set Ar	igle (d	<u> </u>				O set Ar	ngle (d	<u> </u>	
Load	10 Boom	Rated	Load	30 Boom	Rated	Load	10 Boom	Rated	Load	30 Boom	Rated	Load	10 Boom	Rated	Load	30 Boom	Rated	Load	10 Boom	Rated	Load	30 Boom	Rated
Radius (ft)	Angle (deg.)	Load (lbs)	Radius (ft)	Angle (deg.)	Load (lbs)	Radius (ft)	Angle (deg.)	Load (lbs)	Radius (ft)		Load (lbs)	Radius (ft)	Angle (deg.)	Load (lbs)	Radius (ft)	Angle (deg.)	Load (lbs)	Radius (ft)	Angle (deg.)	Load (lbs)	Radius (ft)	Angle (deg.)	Load (lbs)
34.0	79.8	24,000*	(11)	(ucg.)	(100)	38.0	79.9	24,000*	(11)	(ucg.)	(100)	45.0	78.8	20,000*	(11)	(ucg.)	(100)	45.0	80.0	18,000*	(11)	(ucg.)	(103)
36.0	79.0	24,000*				40.0	79.2	24,000*				50.0	76.9	20,000*				50.0	78.3	18,000*			
38.0	78.2	24,000*				45.0	77.2	24,000*	500	70.0	45.000*	55.0	75.0	20,000*		70.5	44.450*	55.0	76.4	18,000*			
40.0 45.0	77.3 75.3	24,000 * 24,000*	45.0	79.0	21,000*	50.0 55.0	75.3 73.2	24,000 * 24,000*	50.0 55.0	79.9 77.7	15,360 * 14,610*	60.0 65.0	73.1 71.2	19,810 * 18,430*	60.0 65.0	78.5 76.5	11,150 * 10,670*	60.0 65.0	74.7 72.9	17,040* 15,820*	65.0	79.1	8,970*
50.0	73.2	24,000*	50.0	76.8	21,000*	60.0		24,000*	60.0	75.6	13,970*	70.0	69.3	17,230*	70.0	74.6	10,250*	70.0	71.1	14,770*	70.0	77.2	8,570*
55.0	70.9	24,000*	55.0	74.5	20,100*	65.0	69.1	22,500	65.0	73.5	13,400*	75.0	67.2	16,110*	75.0	72.4	9,830*	75.0	69.2	13,800*	75.0	75.2	8,200*
60.0 65.0	68.7 66.5	24,000 * 22,260	60.0 65.0	72.2 70.0	19,220 * 18,430*	70.0 75.0	67.1 64.8	20,370 18,450	70.0 75.0	71.4 69.1	12,870 * 12,380*	80.0 85.0	65.2 63.2	15,160 * 14,350*	80.0 85.0	70.4 68.3	9,470 * 9,140*	80.0 85.0	67.3 65.5	12,960* 12,230*	80.0 85.0	73.3 71.4	7,890 * 7,580*
70.0	64.3	20,150	70.0	67.7	17,700*	80.0		16,880	80.0		11,940*	90.0	61.2	13,600*	90.0	66.1	8,840*	90.0	63.6	11,590*	90.0	69.4	7,310*
75.0	61.8	18,230	75.0	65.1	17,040*	85.0		15,520	85.0	64.6	11,570*	95.0	58.9	12,890*	95.0	63.8	8,550*	95.0	61.5	10,950*	95.0	67.2	7,050*
80.0 85.0	59.4 57.0	16,680 15,340	80.0 85.0	62.7 60.2	16,460 * 15,650	90.0 95.0		14,320 13,200	90.0 95.0		11,220 * 10,890*	100.0 105.0	56.7 54.5	12,300 * 11,530	100.0 105.0	61.5 59.2	8,310 * 8,090*	100.0 105.0	59.5 57.5	10,420* 9,940*	100.0 105.0	65.2 63.0	6,830 * 6,630*
90.0		14,150	90.0	57.6	14,440	100.0		13,200 12,250	100.0		10,890* 10,600*	1105.0	54.5 52.2	10,780	110.0	59.2 56.7	7,890*	110.0	55.4	9,500*	110.0	60.8	6,430*
95.0	51.8	13,020	95.0	54.8	13,270	105.0	50.8	11,410	105.0	54.5	10,330*	115.0	49.6	10,030	115.0	1	7,690*	115.0	53.1	9,080*	115.0	58.4	6,260*
100.0		12,100	100.0	52.0	12,320	110.0		10,640	110.0	51.8	10,110*	120.0	47.1	9,390				120.0	50.9	8,700*	120.0	56.1	6,100*
105.0 110.0		11,260 10,510				115.0 120.0		9,920 9,300				125.0 130.0	44.5 41.8	8,810 8,280				125.0 130.0	48.6 46.2	8,370* 8,060 *	125.0	53.6	5,970*
115.0		9,780				125.0		8,730				135.0	38.8	7,800				135.0	43.6	7,780*			
120.0		9,170				130.0		8,200				140.0	35.4	7,250*				140.0	40.8	7,380			
125.0	32.7	8,420*				135.0	32.5	7,420*										145.0 150.0	37.9 34.8	6,960 6,370 *			
																		.50.0	0110	5,510			
		1						1				P-			Г.			-		1			1
	ves		HOO	ves	1	Ree	201		Ree	100	1	- H00	ves	1	HOC	ves	1	HOC	ves		- 100	ves	

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

Capacities based on factors other than machine stability such as structural competence are shown by asterisk * in the charts.

Refer to notes on page 2



Fixe

1	20' B	oom																					
		30 ft J ib							t J ib						t J ib						ft J ib		
		et Angle) set An	gle (d) set An	igle (d ⊤					O set Ar	ngle (d		
ad Bo	10 om Rat	ted Loa	_	30 om Rate	d Lo	ad	10 Boom	Rated	Load	30 Boom	Rated	Load	10 Boom	Rated	Load	30 Boom	Rated	Load	10 Boom	Rated	Load	30 Boom	Rated
dius An	ngle Loa eg.) (lb	ad Radi	ıs An	gle Loa	l Rac	ius	Angle (deg.)	Load (lbs)	Radius (ft)		Load (lbs)	Radius (ft)	Angle (deg.)	Load (lbs)	Radius (ft)	Angle (deg.)	Load (lbs)	Radius (ft)	Angle (deg.)	Load (lbs)	Radius (ft)	Angle (deg.)	Load (lbs)
	9.7 24,0	- 1				0.0	79.9	24,000*				45.0	79.5	20,000*				50.0	78.9	18,000*			
	9.0 24,0 8.2 24,0					5.0 0.0	78.1 76.2	24,000 * 24,000*				50.0	77.7 75.9	20,000*				55.0 60.0	77.2 75.5	18,000* 17,720*			
	6.3 24,0		0 79	.7 21,00		5.0 5.0	74.3	24,000* 24,000*	55.0	78.5	14,880*	55.0 60.0	75.9 74.2	20,000* 20,000 *	60.0	79.2	11,330*	65.0	73.9	16,460*	65.0	79.7	9,080°
	4.3 24,0					0.0	72.4	24,000*	60.0	76.6	14,240*	65.0	72.4	19,240*	65.0	77.4	10,860*	70.0	72.2	15,380*	70.0	78.0	8,700°
	2.2 24,0	- 1				5.0	70.5	22,240	65.0	74.7	13,690*	70.0	70.6	18,010*	70.0	75.6	10,420*	75.0	70.4	14,390*	75.0	76.1	8,350
0.0 70	0.2 24,0	000* 60	0 73	.5 19,68	0* 7	0.0	68.6	20,100	70.0	72.7	13,160*	75.0	68.7	16,840*	75.0	73.6	10,030*	80.0	68.7	13,550*	80.0	74.4	8,040
5.0 68	8.2 21,9	970 65	0 71	.4 18,91	0* 7	5.0	66.5	18,160	75.0	70.6	12,670*	80.0	66.8	15,890*	80.0	71.7	9,670*	85.0	67.0	12,780*	85.0	72.6	7,730
0.0 66	1 '	- 1				0.0	64.5	16,620	80.0	68.5	12,250*	85.0	65.0	15,030*	85.0	69.7	9,340*	90.0	65.2	12,120*	90.0	70.7	7,470*
	3.9 17,9					5.0	62.5	15,250	85.0	66.4	11,860*	90.0	63.1	14,190	90.0	67.8	9,060*	95.0	63.3	11,480*	95.0	68.7	7,230*
60.0 6°	1.7 16,4 9.5 15, 0	- 1				5.0	60.5 58.2	14,040 12,910	90.0 95.0	64.3 62.0	11,500* 11,170 *	95.0 100.0	61.0 59.0	13,050	95.0 100.0	65.6 63.6	8,770* 8,500 *	100.0 105.0	61.5 59.6	10,930* 10,420 *	100.0 105.0	66.8 64.9	7,010* 6,790 *
	7.3 13,8						56.0	11,970	100.0	59.7	10,860*	105.0	57.0	12,100 11,260	105.0	61.4	8,280*	110.0	57.7	9,960*	110.0	62.9	6,610*
	4.8 12,7						53.8	11,130	105.0	57.4	10,600*	110.0	54.9	10,490	110.0	59.3	8,060*	115.0	55.6	9,520*	115.0	60.7	6,410*
	2.4 11,7						51.5	10,360	110.0	55.0	10,360*	115.0	52.6	9,740	115.0	56.8	7,870*	120.0	53.6	9,140*	120.0	58.6	6,260*
	9.9 10,9			1 .			48.9	9,630	115.0	52.3	9,870	120.0	50.4	9,100	120.0	54.5	7,690*	125.0	51.5	8,610	125.0	56.4	6,100*
0.0 47	1 '				12	0.0	46.5	8,990			,	125.0	48.1	8,530	125.0	52.1	7,530*	130.0	49.3	8,060	130.0	54.1	5,970 ³
5.0 4	4.4 9,4	470			12	5.0	43.8	8,420				130.0	45.6	8,000				135.0	47.1	7,580	135.0	51.7	5,860
		360			13		41.1	7,890				135.0	43.1	7,510				140.0	44.6	7,090			
	1 '	280			13		38.1	7,420				140.0	40.3	7,030				145.0	42.2	6,670			
	1 '	590*			14	0.0	34.7	6,700*				145.0	37.4	6,540*				150.0	39.6	6,300			
35.0	1.6 6,8	330*										150.0	34.3	5,880*				155.0 160.0	36.8 33.6	5,730 * 5,090*			
Reeve																							
veeve:	s 1	1 R	eves	s 1	F	leev	ves	1	Rec	ves	1	Ree	ves	1	Ree	ves	1	Ree	eves	1	Ree	ves	1
	s 7 30' E		eeves	3 1	F	lee\	ves	1	Ree	ves	1	Ree	ves	1	Ree	eves	1	Rec	eves	1	Ree	ves	1
	30' B	oom 30 ft Jib			F	Reev		40 f	t Ji b		1	Ree		50 f	ft J ib		1	Ree		601	ft J ib		1
	30' B	oom	deg.)	F	Reev	(t Ji b	eg.)	1	Ree	(ft J ib	'eg.)	1	Ree	(60 t O set Ar	ft J ib	eg.)	
1	30' B	30 ft Jib et Angle	deg.) 30 om Rate		ad	10 Boom	40 f	t Ji b	eg.) 30 Boom	1 Rated	Ree		50 f	ft J ib	eg.) 30 Boom	1 Rated	Ree		60 t O set Ar	ft J ib	eg.) 30 Boom	
ad Bodius Anft) (di	O Se 10 nom Rat Loz eg.) (lb	30 ft Jib et Angle ted Loa ad Radi (ft	deg.) 30 om Rate Loa	d Lo Rac (f	ad lius	10 Boom Angle (deg.)	40 f O set An Rated Load (lbs)	t J ib gle (d	eg.) 30 Boom		Load Radius (ft)	10 Boom Angle (deg.)	50 t D set An Rated Load (lbs)	ft Jib ngle (d	eg.) 30		Load Padius (ft)	10 Boom Angle (deg.)	60 to Set Ar Rated Load (lbs)	ft Jib ngle (d	eg.) 30	
dad Bodius Ari	0 se 10 0 m Rat Loi ngle loi ngle (lb) 9.7 24,0	30 ft Jib et Angle ted Loa Radi (ft)	deg.) 30 om Rate Loa	Loo Pace (ff	ad lius t)	10 Boom Angle (deg.) 78.8	Pated Load (lbs) 24,000*	t Jib gle (d Load Radius	eg.) 30 Boom Angle	Rated Load	Load Padius (ft) 45.0	Boom Angle (deg.)	Fated Load (lbs) 20,000*	ft Jib ngle (d Load Radius	eg.) 30 Boom Angle	Rated Load	Load Radius (ft) 50.0	10 Boom Angle (deg.) 79.5	Rated Load (lbs) 18,000*	ft Jib ngle (d Load Radius	eg.) 30 Boom Angle	Rated Load
Dad Bodius Ar. (d. 88.0 79.00.	0 Se 10 0 m Rat logle Loe eg.) (lb 9.7 24,0 9.0 24,0	30 ft Jib et Angle ted Loa ad Radi (ft) 000*	deg.) 30 om Rate Loa	Loo Pacce (ft 4	ad lius t) 5.0 0.0	10 Boom Angle (deg.) 78.8 77.1	## A0 f ## Set And ## Rated Load (lbs) 24,000* 24,000*	t Jib gle (d Load Padius (ft)	eg.) 30 Boom Angle (deg.)	Pated Load (lbs)	Load Radius (ft) 45.0 50.0	10 Boom Angle (deg.) 80.0 78.4	50 f D set Ard Load (lbs) 20,000* 20,000*	ft Jib ngle (d Load Radius	eg.) 30 Boom Angle	Rated Load	Load Radius (ft) 50.0 55.0	79.5 77.9	Rated Load (lbs) 18,000* 18,000*	ft Jib ngle (d Load Radius	eg.) 30 Boom Angle	Rated Load
1 Boad Boad Board (deft) (deft) 79	O Second Control of the control of t	30 ft Jib et Angle led Loa Radi (ft) 000* 000*	deg., d Boo Ang (de	30 om Pate ILoa (lbs	Log Rac _{(f}	ad lius 1) 5.0 0.0 5.0	78.8 77.1 75.2	## Application	Load Radius (ft)	eg.) 30 Boom Angle (deg.)	Pated Load (lbs)	Load Padius (ft) 45.0 50.0 55.0	80.0 78.4 76.7	50 t D set Ard Load (lbs) 20,000* 20,000*	ft Jib ngle (d Load Radius (ft)	eg.) 30 Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft) 50.0 55.0 60.0	79.5 77.9 76.3	60 to 20 set Ar Rated Load (Ibs) 18,000* 18,000* 18,000*	ft Jib ngle (d Load Radius	eg.) 30 Boom Angle	Rated Load
1 Boad Bodius Aridius (de 18.0 79.00 79.55.0 75.00 75.	O second local loc	30 ft Jib et Angle led Load aad Radi (ft) 000* 000*	deg. Boils Anglede	30 om Pate Loa (lbs	Lo Pace (f 4 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	ad lius t) 5.0 0.0	10 Boom Angle (deg.) 78.8 77.1	## A0 f Set An Set An Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000*	t Jib gle (d Load Padius (ft)	eg.) 30 Boom Angle (deg.)	Rated Load (lbs) 15,100* 14,500*	Load Radius (ft) 45.0 50.0	10 Boom Angle (deg.) 80.0 78.4	50 t O set An O set An Cload (lbs) 20,000* 20,000* 20,000* 20,000*	ft Jib ngle (d Load Radius	eg.) 30 Boom Angle	Rated Load (lbs)	Load Radius (ft) 50.0 55.0	79.5 76.3 74.8	Rated Load (lbs) 18,000* 18,000* 18,000* 17,100*	ft Jib ngle (d Load Radius	eg.) 30 Boom Angle	Rated Load
1 Bood Brodius Art (dr. 88.0 79.155.0 75.50.0 75.55.0 75.0 7	O se 10 10 10 10 10 10 10 10 10 10	30 ft Jibet Angle led Load Radio (ft) 000* 000* 000* 5000* 5000*	deg., d Bouls Angle (de de	30 30 Pate Loagle Loagle (lbs 21,00 s.5 20,98	Lo Rac (f 4 5 5 6 6 0 * 6 6	9d (ius (i)) 5.0 0.0 0.0 0.0 0.0	78.8 77.1 75.2 73.5	## Application	Load Radius (ft)	eg.) 30 Boom Angle (deg.) 79.3 77.5	Pated Load (lbs)	Load Padius (ft) 45.0 50.0 55.0 60.0	80.0 78.4 76.7 75.1	50 t D set Ard Load (lbs) 20,000* 20,000*	Et Jib Ogle (d Load Radius (ft)	eg.) 30 Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft) 50.0 55.0 60.0 65.0	79.5 77.9 76.3	60 to 20 set Ar Rated Load (Ibs) 18,000* 18,000* 18,000*	ft Jib ngle (d Load Radius (ft)	eg.) 30 Boom Angle (deg.)	Rated Load (lbs)
1 Bodius Arn (d. (d. (d. (d. (d. (d. (d. (d. (d. (d.	0 se 10	30 ft Jib et Angle ded Load ded Fadi (ft, 000* 000* 000* 5000* 5000* 600* 600* 60	0 78 0 76 0 72	30 Pate Load (lbs 1,000)	Lo Race (f 4 5 0* 6 0* 6 0* 7 0* 7	ad lius 5.0 0.0 0.0	78.8 77.1 75.2 73.5 71.7 69.9 68.0	Rated Load (/lbs) 24,000* 24,000* 24,000* 24,0000* 24,0000* 19,860 17,920	Load Radius (ft) 55.0 60.0 65.0 70.0	79.3 77.5 75.7 73.8 71.8	Rated Load (/bs) 15,100* 14,500* 13,930* 13,420* 12,940*	Load Radius (ft) 45.0 50.0 60.0 65.0 70.0 75.0	80.0 78.4 76.7 75.1 73.4 71.7 69.9	750 ft 20 set Ard Load (lbs) 20,000* 20,000* 20,000* 18,760* 17,570*	Ft Jib ogle (d Load Radius (ft) 60.0 65.0 70.0 75.0	79.9 78.2 74.6	Pated Load (lbs) 11,480* 11,020* 10,620* 10,200*	Load Radius (ft) 50.0 55.0 60.0 65.0 70.0 75.0 80.0	79.5 77.9 76.3 74.8 73.2 71.5 69.9	Rated Load (lbs) 18,000* 18,000* 17,100* 16,000* 14,960* 14,100*	Ft Jib ogle (d Load Radius (ft) 70.0 75.0 80.0	78.7 76.9	Rated Load (lbs) 8,840* 8,480* 8,170*
1	30' E O se 10 O se 10 Complete Local (lb lb	30 ft Jib et Angle led Load ad Fadi (ft, 000* 000* 000* 5000* 5000* 600* 600* 60	0 78 0 76 0 72 0 72 0 70	30 20 Pate Loagle Loagle Loagle (lbs) 3.5 21,00 (lbs) 3.5 20,98 3.6 20,12 3.7 19,35 3.7 18,68	1 Lo Race (f 4 5 5 5 6 6 0 * 6 6 0 * 7 0 * 7 0 * 8	5.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	78.8 77.1 75.2 73.5 71.7 69.9 68.0 66.2	Rated Load (/lbs) 24,000* 24,000* 24,000* 24,0000* 24,0000 17,920 16,350	Load Radius (ft) 55.0 60.0 65.0 70.0 75.0 80.0	79.3 77.5 75.7 73.8 71.8 69.9	Rated Load (lbs) 15,100* 14,500* 13,930* 13,420* 12,940* 12,520*	Load Radius (ft) 45.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0	80.0 78.4 76.7 75.1 73.4 71.7 69.9 68.2	Rated Load (/lbs) 20,000* 20,000* 20,000* 20,000* 20,000* 10,7570* 16,530	60.0 65.0 75.0 80.0	79.9 78.2 76.5 74.6	Pated Load (lbs) 11,480* 11,020* 10,620* 10,200* 9,850*	Load Radius (ft) 50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0	79.5 77.9 76.3 74.8 73.2 71.5 69.9 68.3	Rated Load (lbs) 18,000* 18,000* 17,100* 16,000* 14,960* 14,100* 13,330*	70.0 75.0 80.0 85.0	eg.) 30 Boom Angle (deg.) 78.7 76.9 75.3 73.6	Rated Load (lbs) 8,840* 8,480* 8,170* 7,890*
1000 Properties of the control of th	0 se 10 Part Louis (lb lb	30 ft Jib bet Angle dead Load and and Load and and and Load and and and and and and and and and and	0 78 0 76 0 72 0 70 0 68	30 pm Rate Loagle Loagle Loagle (lbs) 8.5 21,00 8.6 20,12 2.7 19,35 1.7 18,68 1.6 17,96	1 Lo Race (f 4 5 5 6 6 0 * 6 6 0 * 7 0 * 8 0 * 8	ad lius 5.0 0.0 5.0 0.0 5.0 0.0 5.0	78.8 77.1 75.2 73.5 769.9 68.0 66.2 64.3	### Act of Control of	Load Radius (ft) 55.0 60.0 65.0 70.0 85.0	79.3 77.5 75.7 73.8 71.8 69.9 68.0	Rated Load (lbs) 15,100* 14,500* 13,420* 12,940* 12,520* 12,140*	Load Radius (ft) 45.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0	80.0 78.4 76.7 75.1 73.4 71.7 69.9 68.2 66.5	Fated Load (lbs) 20,000* 20,000* 20,000* 20,000* 18,760* 16,530 15,160	Load Radius (ft) 60.0 65.0 75.0 80.0 85.0	79.9 78.2 76.5 74.6 72.8 71.0	Pated Load (lbs) 11,480* 11,020* 10,620* 10,200* 9,850* 9,540*	Load Radius (ft) 50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	79.5 77.9 76.3 74.8 73.2 71.5 69.9 68.3 66.6	Rated Load (lbs) 18,000* 18,000* 18,000* 17,100* 16,000* 14,960* 14,100* 13,330* 12,630*	To.0 70.0 75.0 80.0 90.0	78.7 76.9 75.3 73.6 71.9	Rated Load (lbs) 8,840* 8,480* 8,170* 7,890* 7,620*
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	30' E O se 10 Rate gigle R	30 ft Jib et Angle led Load and Padin (ft) 000* 000* 000* 5000* 5000* 5000* 60	0 78 0 76 0 70 0 70 0 70 0 68 0 66	30 Pate Load (lbs) 3.5 21,00 (lbs) 3.5 20,92 (lbs) 3.6 20,12 (lbs) 3.7 18,64 (lbs) 3.6 17,966 (lbs) 3.6 16,66 (lbs)	Local Loca	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	78.8 77.1 75.2 73.5 71.7 69.9 68.0 66.2 64.3 62.4	## Act of Description	Example 10 (d) (f) (f) (f) (f) (f) (f) (f) (f) (f) (f	79.3 77.5 75.7 73.8 71.8 69.9 68.0 66.1	Rated Load (lbs) 15,100* 14,500* 13,930* 13,420* 12,940* 12,520* 12,140* 11,770*	Load Radius (ft) 45.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	80.0 78.4 76.7 75.1 73.4 71.7 69.9 68.2 66.5 64.7	Fated Load (lbs) 20,000* 20,000* 20,000* 20,000* 18,760* 16,530 15,160 13,950	60.0 65.0 70.0 85.0 90.0	79.9 78.2 76.5 74.6 72.8 71.0 69.2	Pated Load (lbs) 11,480* 11,020* 10,620* 10,200* 9,850* 9,540* 9,230*	Load Radius (ft) 50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0	79.5 77.9 76.3 74.8 73.2 71.5 69.9 68.3 66.6 64.8	Rated Load (lbs) 18,000* 18,000* 18,000* 17,100* 16,000* 14,960* 14,100* 13,330* 12,630* 11,970*	70.0 75.0 80.0 95.0 95.0	78.7 76.9 75.3 73.6 71.9	8,840* 8,480* 8,170* 7,890* 7,620* 7,360*
11	30' E O se 10 Rate Lobe Lobe Lobe Lobe Lobe Lobe Lobe Lob	30 ft Jib et Angle dead Radio (ft) 000* 000* 5000* 5000* 5000* 5000* 6000* 5000* 600	0 788 (deg., deg.) 0 788 (deg.) 0 740 720 700 688 0 660 660 660	30 30 30 8.5 21,00 (lbs) 8.5 20,98 8.6 20,11 8.7 19,33 8.6 16,66 8.5 15,18		ad lius 5.0 0.0 5.0 0.0 5.0 0.0 5.0	78.8 77.1 75.2 73.5 769.9 68.0 66.2 64.3	## April 20	Load Radius (ft) 55.0 60.0 65.0 70.0 85.0	79.3 77.5 75.7 73.8 71.8 69.9 68.0	Rated Load (fbs) 15,100* 14,500* 13,930* 13,420* 12,940* 12,520* 11,770* 11,440*	Load Radius (ft) 45.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0	80.0 78.4 76.7 75.1 73.4 71.7 69.9 68.2 66.5	## Solid State	Load Radius (ft) 60.0 65.0 75.0 80.0 85.0	79.9 78.2 76.5 74.6 72.8 71.0	Pated Load (lbs) 11,480* 11,020* 10,620* 10,200* 9,850* 9,540*	Load Radius (ft) 50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	79.5 77.9 76.3 74.8 73.2 71.5 69.9 68.3 66.6	Rated Load (lbs) 18,000* 18,000* 18,000* 16,000* 14,100* 13,330* 12,630* 11,970* 11,410*	70.0 75.0 80.0 95.0 100.0	78.7 76.9 75.3 73.6 71.9	8,840* 8,480* 8,170* 7,890* 7,620* 7,140*
11	30' B O see 10 10 O see 10 10 10 10 10 10 10 10 10	30 ft Jib 30 ft Jib 50 add Padd (ft, 1000* 10	0 78 0 76 0 76 0 70 0 68 0 66 0 64 0 62	30 30 30 30 65 21,00 65 20,12 7 19,33 7 18,68 66 16,66 16,66 15,18 14 13,98	Lo Race (f) 4 5 5 5 5 6 0 0 0 0 0 9 9 0 0 10 0 0 0 0 0 0 0 0 0	5.0 0.0 5.0 0.0 5.0 0.0 5.0 0.0 5.0 0.0 5.0 0.0 5.0	70. Boom 78.8 77.1 75.2 73.5 71.7 69.9 68.0 66.2 64.3 62.4 60.3	## Act of D set And Cload (Ibs) 24,000* 24,000* 24,000* 24,000* 22,000 19,860 17,920 13,800 12,650 11,700 10,860	Load Radius (ft) 55.0 60.0 65.0 70.0 85.0 90.0 95.0	79.3 77.5 75.7 73.8 69.9 68.0 66.1 63.9 61.9	Rated Load (lbs) 15,100* 14,500* 13,930* 13,420* 12,940* 12,520* 12,140* 11,770*	Load Radius (ft) 45.0 50.0 60.0 65.0 70.0 85.0 90.0	(deg.) 80.0 78.4 76.7 75.1 73.4 71.7 69.9 68.2 66.5 64.7 62.8	Rated Load (lbs) 20,000* 20,000* 20,000* 20,000* 18,760* 16,530 15,160 13,950 11,860 11,000	60.0 65.0 70.0 85.0 90.0 95.0	79.9 78.2 76.5 74.6 72.8 71.0 69.2 67.2	### Pated Load (lbs) 11,480* 11,020* 10,620* 10,200* 9,850* 9,540* 9,230* 8,950*	Load Radius (ft) 50.0 55.0 60.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0	79.5 77.9 76.3 74.8 73.2 71.5 69.9 68.3 66.6 64.8 63.1	Rated Load (lbs) 18,000* 18,000* 18,000* 17,100* 16,000* 14,960* 14,100* 13,330* 12,630* 11,970*	70.0 75.0 80.0 95.0 100.0 105.0	78.7 76.9 70.0 68.3	8,840* 8,480* 8,170* 7,890* 7,620* 7,360*
1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	30' B O see 10 10 O see 10 10 10 10 10 10 10 10 10	30 ft Jib 30 ft Jib bet Angle led Load Fadir (ft, 1000* 50000* 50000* 50000* 6000* 7730 65620 705680 9000* 900	0 78 0 76 0 76 0 76 0 76 0 68 0 66 0 66 0 62	30 30 30 30 30 35 35 36 36 37 30 30 30 30 30 30 30 30 30 30	4 5 5 6 6 6 0 ° 7 7 8 8 8 0 ° 9 9 0 0 10 0 11 1	3.00 (ius) (71.7 75.2 73.5 76.9 66.2 64.3 62.4 60.3 58.3 56.3 54.2	## April 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 17,920 16,350 11,700	Load Radius (ft) 55.0 60.0 65.0 70.0 85.0 90.0 91.00.0	79.3 77.5 75.7 73.8 69.9 68.0 66.1 63.9 61.9	Rated Load (lbs) 15,100* 14,500* 13,930* 13,420* 12,1940* 12,1520* 11,1770* 11,440* 11,130*	Load Radius (ft) 45.0 50.0 55.0 60.0 70.0 88.0 99.0 95.0 100.0	76.7 75.1 73.4 71.7 68.2 66.5 64.7 62.8 61.0	## Solid	60.0 65.0 70.0 85.0 99.0 95.0 100.0	79.9 78.2 76.5 74.6 72.8 71.0 69.2 67.2 65.3	### Pated Load (lbs) 11,480* 11,020* 10,620* 10,200* 9,550* 9,540* 9,230* 8,950* 8,700*	Load Radius (tt) 50.0 65.0 65.0 775.0 85.0 90.0 95.0 100.0	79.5 77.9 76.3 74.8 73.2 71.5 69.9 68.3 66.6 64.8 63.1 61.4	Rated Load (lbs) 18,000* 18,000* 18,000* 17,100* 16,000* 14,960* 14,100* 13,330* 12,630* 11,970* 11,410* 10,890*	70.0 75.0 80.0 95.0 100.0 105.0	78.7 76.9 70.0 68.3 66.5	8,840° 8,480° 8,170° 7,760° 7,140° 6,740° 6,760°
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	30' E O se 10 Rate of the property of the p	30 ft Jib. 30 ft Jib. 2000* 00	0 78 An, (de 0 70 0 70 0 68 0 60 60 60 60 60 60 60 60 60 60 60 60 6	30 30 30 30 35 35 36 36 37 38 38 38 38 38 38 38 38 38 38		9.00 0.00 5.00 0.00 5.00 0.00 5.00 0.00 5.00 0.00 5.00 0.00 5.00 0.00 5.00	78.8 77.1 75.2 73.5 71.7 69.9 66.2 64.3 62.4 60.3 58.3 56.3 51.9	## AO f Set An Set An Continue Continue	Load Radius (ft) 55.0 60.0 65.0 70.0 80.0 85.0 90.0 100.0 105.0 115.0 115.0	79.3 77.5 73.8 71.8 69.9 68.0 66.1 66.1 67.9 59.8 57.6	Rated Load (lbs) 15,100* 14,500* 13,930* 12,940* 12,520* 11,770* 11,440* 11,130* 10,860* 10,420 9,650	Load Radius (ft) 45.0 50.0 55.0 60.0 60.0 75.0 80.0 90.0 910.0 1105.0 115.0	700 Boom Angle (deg.) 80.0 78.4 76.7 75.1 73.4 71.7 69.9 68.2 66.5 64.7 62.8 61.0 59.1 57.2 55.1	Fated Load (lbs) 20,000* 20,000* 20,000* 20,000* 18,760* 16,530 15,160 13,950 12,800 11,860 11,000 10,220 9,470	60.0 65.0 70.0 75.0 80.0 95.0 1100.0 115.0	79.9 78.2 76.5 74.6 72.8 71.0 69.2 65.3 61.4 59.2	### Pated Load (lbs) 11,480* 11,020* 10,620* 10,200* 9,540* 9,230* 8,700* 8,700* 8,480* 8,480* 8,040*	Load Radius (ft) 50.0 55.0 60.0 75.0 80.0 85.0 90.0 100.0 1110.0 115.0	79.5 77.9 76.3 74.8 73.2 71.5 69.9 68.3 66.6 64.8 61.4 59.6 57.7 55.9	Rated Load (lbs) 18,000* 18,000* 18,000* 17,100* 16,000* 14,960* 14,100* 12,630* 11,970* 11,410* 10,830* 10,310 9,560 8,920	70.0 75.0 80.0 85.0 90.0 100.0 115.0 120.0	78.7 76.9 75.3 73.6 71.9 70.0 66.5 64.6 62.6 60.7	Rated Load (lbs) 8,840° 8,480° 7,7620° 7,7620° 7,140° 6,740° 6,760° 6,390°
100 155.0 650.0 555.0 55.0 55.0 55.0 55.0 55.	30' E O se 10	30 ft Jib 30 ft Jib bet Angle Color Col	0 78 An, (de 0 70 0 70 0 68 0 60 60 60 60 60 60 60 60 60 60 60 60 6	30 30 30 30 35 35 36 36 37 38 38 38 38 38 38 38 38 38 38	Lo Race	5.0 0.0 5.0 0.0 5.0 0.0 5.0 0.0 5.0 0.0 5.0 0.0 5.0 0.0 5.0 0.0 0	78.8 77.1 75.2 73.5 71.7 69.9 66.2 64.3 62.4 60.3 58.3 56.3 51.9 49.7	## Act of Disset Array	Load Radius (ft) 55.0 60.0 65.0 70.0 80.0 85.0 90.0 9100.0 1100.0	79.3 77.5 73.8 71.8 69.9 68.0 66.1 66.1 67.9 59.8 57.6	Rated Load (lbs) 15,100* 14,500* 13,930* 13,420* 12,140* 11,770* 11,140* 11,140* 10,860* 10,420	Load Radius (ft) 45.0 50.0 55.0 60.0 65.0 75.0 80.0 85.0 90.0 100.0 110.0 115.0 120.0	(cleg.) 80.0 78.4 76.7 75.1 73.4 71.7 69.9 68.2 66.5 64.7 62.8 55.1 55.1 55.1	Fated Load (lbs) 20,000* 20,000* 20,000* 20,000* 20,000* 18,760* 17,570* 16,530 15,160 13,950 11,860 11,000 11,860 11,000 9,470 8,840	60.0 65.0 75.0 80.0 85.0 90.0 110.0 115.0 120.0 120.0	79.9 78.2 76.5 74.6 72.8 71.0 69.2 65.3 61.4 59.2 57.1	## Fated Load (lbs) 11,480* 11,020* 10,620* 10,200* 9,850* 9,230* 8,950* 8,700* 8,480* 8,260* 8,040* 7,870*	Load Radius (ft) 50.0 55.0 60.0 65.0 70.0 80.0 85.0 90.0 105.0 1110.0 115.0 120.0 125.0	79.5 77.9 76.3 74.8 73.2 71.5 69.9 68.3 66.6 64.8 63.1 61.4 61.4 55.9 55.9 55.9	Rated Load (lbs) 18,000* 18,000* 18,000* 17,100* 16,000* 14,100* 13,330* 12,630* 11,970* 11,410* 10,890* 10,310 9,560 8,920 8,350	70.0 75.0 80.0 85.0 90.0 105.0 1110.0 125.0 125.0	78.7 76.9 70.0 68.3 66.5 62.6 60.7 58.7	Rated (abs) 8,840° 8,480° 8,170° 7,890° 7,620° 7,140° 6,940° 6,940° 6,230°
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1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	30' E O see 10 10 10 10 10 10 10 10 10	30 ft Jib et Angle led Angle led Radiad Fadians 0000* 00000* 00000* 0000* 0000* 0000* 0000* 0000* 0000* 0000* 0000* 00000* 00000* 0000* 0000* 0000* 0000* 0000* 0000* 0000* 0000* 0000* 0000* 00	0 78 An, (de 0 70 0 70 0 68 0 60 60 60 60 60 60 60 60 60 60 60 60 6	30 30 30 30 35 35 36 36 37 38 38 38 38 38 38 38 38 38 38		5.0 0.0 5.0 0.0 5.0 0.0 5.0 0.0 5.0 0.0 5.0 0.0 5.0 0.0 5.0 0.0 5.0 0.0 5.0 0.0 5.0 0.0 0	78.8 77.1 75.2 73.5 68.0 66.2 64.3 62.4 60.3 58.3 54.2 49.7 47.4 45.0	## April 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 17,920 16,350 11,700 10,860 10,090 9,360 8,730 8,150 7,620	Load Radius (ft) 55.0 60.0 65.0 70.0 80.0 85.0 90.0 100.0 105.0 115.0 115.0	79.3 77.5 75.7 73.8 69.9 68.0 66.1 66.1 69.9 59.8 57.6	Rated Load (lbs) 15,100* 14,500* 13,930* 13,420* 12,940* 12,520* 11,170* 11,140* 11,130* 10,860* 10,420 9,650	Load Radius (ft) 45.0 50.0 65.0 65.0 75.0 85.0 95.0 100.0 115.0 125.0 125.0 130.0	76.7 75.1 73.4 71.7 69.9 68.2 61.0 59.1 57.2 55.1 51.0 48.8	## So to 10 Set Ari Rated Load (fbs)	60.0 65.0 75.0 80.0 85.0 90.0 110.0 115.0 120.0 120.0	79.9 78.2 76.5 74.6 72.8 63.4 61.4 61.4 59.2 57.1 54.9	## Fated Load (lbs) 11,480* 11,020* 10,620* 10,200* 9,850* 9,230* 8,950* 8,700* 8,480* 8,260* 8,040* 7,870*	Load Radius (ft) 55.0.0 55.0.0 65.0.0 77.0.0 75.0 80.0 85.0 90.0 100.0 115.0 120.0 133.0 133.0	(deg.) 79.5 77.9 76.3 74.8 73.2 71.5 69.9 68.3 66.48 63.1 61.4 59.6 57.7 55.9 52.0	Rated Load (lbs) 18,000* 18,000* 18,000* 17,100* 16,000* 14,960* 14,100* 12,630* 11,970* 11,410* 10,890* 10,310 9,560 8,920 7,820 7,310	70.0 75.0 80.0 85.0 99.0 100.0 115.0 120.0 135.0 135.0 135.0 135.0	78.7 76.9 75.3 73.6 66.5 64.6 62.6 60.7 58.7 56.6 54.5	Rated Load (lbs) 8,840° 8,480° 7,890° 7,140° 6,940° 6,560° 6,300° 6,100° 5,970°
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1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	30' E O se 10	30 ft Jib et Angle led Angle led Radiad Fadians 0000* 00000* 00000* 0000* 0000* 0000* 0000* 0000* 0000* 0000* 0000* 00000* 00000* 0000* 0000* 0000* 0000* 0000* 0000* 0000* 0000* 0000* 0000* 00	0 78 An, (de 0 70 0 70 0 68 0 60 60 60 60 60 60 60 60 60 65 55 60 60 65 60 60 65 60 60 60 65 60 60 60 60 60 60 60 60 60 60 60 60 60	30 30 30 30 35 35 36 36 37 38 38 38 38 38 38 38 38 38 38	## A	5.0 0.0 5.0 0.0 5.0 0.0 5.0 0.0 5.0 0.0 5.0 0.0 5.0 0.0 5.0 0.0 5.0 0.0 5.0 0.0 5.0 0.0 5.0 0.0 5.0 0.0 0	78.8 77.1 75.2 73.5 71.7 69.9 68.0 66.2 64.3 60.3 58.3 56.3 54.2 49.7 47.4 45.0 42.5	## April 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 17,920 16,350 11,700 10,860 10,090 9,360 8,730 8,150 7,620	Load Radius (ft) 55.0 60.0 65.0 70.0 80.0 85.0 90.0 100.0 105.0 115.0 115.0	79.3 77.5 75.7 73.8 69.9 68.0 66.1 66.1 69.9 59.8 57.6	Rated Load (lbs) 15,100* 14,500* 13,930* 13,420* 12,940* 12,520* 11,170* 11,140* 11,130* 10,860* 10,420 9,650	Load Radius (ft) 45.0 50.0 60.0 60.0 75.0 80.0 85.0 100.0 110.0 110.0 120.0 130.0 135.0	(deg.) 80.0 78.4 71.7 69.9 68.2 66.5 55.1 53.1 53.1 48.8 46.6	## So to 10 Set Ari Rated Load (fbs)	60.0 65.0 70.0 95.0 100.0 115.0 125.0 125.0	79.9 78.2 76.5 74.6 72.8 63.4 61.4 61.4 59.2 57.1 54.9	### Pated Load (lbs) 11,480* 11,020* 10,620* 10,200* 9,850* 9,540* 9,230* 8,950* 8,700* 8,480* 8,260* 7,870* 7,710*	Load Radius (ft) 50.0 55.0 60.0 75.0 80.0 85.0 90.0 105.0 110.0 125.0 130.0 135.0 140.0	79.5 77.9 76.3 77.8 77.3 74.8 73.2 71.5 69.9 68.3 66.6 64.8 63.1 61.4 59.6 57.7 55.9 54.0 52.0 52.0 47.8	Rated Load (lbs) 18,000* 18,000* 18,000* 17,100* 16,000* 14,960* 14,100* 12,630* 11,970* 11,410* 10,890* 10,310 9,560 8,920 7,820 7,310	70.0 75.0 80.0 85.0 99.0 100.0 115.0 120.0 135.0 135.0 135.0 135.0	78.7 76.9 75.3 73.6 66.5 64.6 62.6 60.7 58.7 56.6 54.5	8,840° 8,480° 8,480° 7,630° 7,140° 6,560° 6,30° 6,230° 6,100° 5,970°
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1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	30' E O se 10	30 ft Jib 30 ft Jib bet Angle led Look ad Padi (ft, 1000*	0 78 An, (de 0 70 0 70 0 68 0 60 60 60 60 60 60 60 60 60 65 55 60 60 65 60 60 65 60 60 60 65 60 60 60 60 60 60 60 60 60 60 60 60 60	30 30 30 30 35 35 36 36 37 38 38 38 38 38 38 38 38 38 38		5.0 5.0 5.0 5.0 5.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6	77.1 78.8 77.1 75.2 75.2 71.7 69.9 68.0 66.2 64.3 62.4 60.3 55.3 56.3 54.2 51.9 49.7 47.4 45.0 39.6 36.8	## Act of D set And Condition (Ibs) 24,000* 24,000* 24,000* 24,000* 22,000 19,860 17,920 13,800 12,650 10,090 9,360 8,730 8,150 7,620 7,140 6,670 6,040*	Load Radius (ft) 55.0 60.0 65.0 70.0 80.0 85.0 90.0 100.0 105.0 115.0 115.0	79.3 77.5 75.7 73.8 69.9 68.0 66.1 66.1 69.9 59.8 57.6	Rated Load (lbs) 15,100* 14,500* 13,930* 13,420* 12,940* 12,520* 11,170* 11,140* 11,130* 10,860* 10,420 9,650	Load Radius (ft) 45.0 50.0 65.0 65.0 670.0 75.0 80.0 95.0 100.0 110.0 125.0 130.0 140.0 145.0 155.0	(deg.) 80.00 78.4 76.7 75.1 73.4 71.7 69.9 68.2 66.5 64.7 62.8 61.0 59.1 55.1 51.0 48.8 46.6 44.1 41.7 39.1 36.3	## Fated Load (fbs) Rated Load (fbs)	60.0 65.0 70.0 95.0 100.0 115.0 125.0 125.0	79.9 78.2 76.5 74.6 72.8 63.4 61.4 61.4 59.2 57.1 54.9	### Pated Load (lbs) 11,480* 11,020* 10,620* 10,200* 9,850* 9,540* 9,230* 8,950* 8,700* 8,480* 8,260* 7,870* 7,710*	Load Radius (tt) 55.0 65.0 65.0 77.0 75.0 80.0 85.0 95.0 110.0 115.0 125.0 135.0 140.0 145.0 155.0 160.0	79.5 77.9 76.3 74.8 73.2 71.5 69.9 68.3 66.6 64.8 63.1 61.4 59.6 52.0 52.0 52.0 47.8 45.6 45.6 43.3 44.0 38.3	Fated Load (lbs) 18,000* 18,000* 18,000* 17,100* 16,000* 14,100* 12,630* 11,970* 11,410* 10,330* 11,410* 10,890* 10,310 9,560 8,920 8,350 7,820 7,310 6,040 6,040 5,620* 5,040*	70.0 75.0 80.0 85.0 99.0 100.0 115.0 120.0 135.0 135.0 135.0 135.0	78.7 76.9 75.3 73.6 66.5 64.6 62.6 60.7 58.7 56.6 54.5	8,840° 8,480° 8,480° 7,890° 7,140° 6,940° 6,560° 6,300° 6,100° 5,970°
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	30' E O se 10	30 ft Jib 30 ft Jib bet Angle led Look ad Padi (ft, 1000*	0 78 An, (de 0 70 0 70 0 68 0 60 60 60 60 60 60 60 60 60 65 55 60 60 65 60 60 65 60 60 60 65 60 60 60 60 60 60 60 60 60 60 60 60 60	30 30 30 30 35 35 36 36 37 38 38 38 38 38 38 38 38 38 38		5.0 5.0 5.0 5.0 5.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6	77.1 78.8 77.1 75.2 75.2 71.7 69.9 68.0 66.2 64.3 62.4 60.3 55.3 56.3 54.2 51.9 49.7 47.4 45.0 39.6 36.8	## Act of D set And Condition (Ibs) 24,000* 24,000* 24,000* 24,000* 22,000 19,860 17,920 13,800 12,650 10,090 9,360 8,730 8,150 7,620 7,140 6,670 6,040*	Load Radius (ft) 55.0 60.0 65.0 70.0 80.0 85.0 90.0 100.0 105.0 115.0 115.0	79.3 77.5 75.7 73.8 69.9 68.0 66.1 66.1 69.9 59.8 57.6	Rated Load (lbs) 15,100* 14,500* 13,930* 13,420* 12,940* 12,520* 11,170* 11,140* 11,130* 10,860* 10,420 9,650	Load Radius (ft) 45.0 50.0 55.0 60.0 70.0 75.0 80.0 85.0 90.0 95.0 115.0 120.0 130.0 140.0 145.0 150.0	(c) 10 Boom 78.4 Angle (deg.) 80.0 78.4 71.7 75.1 73.4 71.7 69.9 68.2 66.5 64.7 62.8 55.1 51.0 48.8 44.1 41.7 39.1	Rated Load (lbs) 20,000* 20,000* 20,000* 20,000* 10,570* 16,530 15,160 13,950 12,800 11,860 11,000 10,220 9,470 8,260 7,730 7,250 6,760 6,340 5,860*	60.0 65.0 70.0 95.0 100.0 115.0 125.0 125.0	79.9 78.2 76.5 74.6 72.8 63.4 61.4 61.4 59.2 57.1 54.9	### Pated Load (lbs) 11,480* 11,020* 10,620* 10,200* 9,850* 9,540* 9,230* 8,950* 8,700* 8,480* 8,260* 7,870* 7,710*	Load Fadius (ft) 50.0 55.0 60.0 65.0 77.0 80.0 85.0 90.0 110.0 115.0 125.0 130.0 145.0 150.0 155.0	(deg.) 79.5 77.9 76.3 74.8 73.2 71.5 69.9 68.3 66.48 63.1 61.4 59.6 57.7 55.9 52.0 47.8 45.6 43.3 41.0 38.3 35.6	Rated Load (lbs) 18,000* 18,000* 18,000* 17,100* 16,000* 14,960* 14,100* 12,630* 11,970* 11,410* 10,310 9,560 8,920 8,350 7,320 7,310 6,830 6,410 6,040 5,620*	70.0 75.0 80.0 85.0 99.0 100.0 115.0 120.0 135.0 135.0 135.0 135.0	78.7 76.9 75.3 73.6 66.5 64.6 62.6 60.7 58.7 56.6 54.5	Rated Load (lbs) 8,840° 8,480° 7,890° 7,140° 6,940° 6,560° 6,300° 6,100° 5,970°
1 1 1 1 1 1 1 1 1 1 1	30' E O se 10	30 ft Jib 30 ft Jib bet Angle Color Color Color Color	0 78 An, (de 0 70 0 70 0 68 0 60 60 60 60 60 60 60 60 60 65 55 60 60 65 60 60 65 60 60 60 65 60 60 60 60 60 60 60 60 60 60 60 60 60	30 30 30 30 35 35 36 36 37 38 38 38 38 38 38 38 38 38 38	## A	5.0 5.0 5.0 5.0 5.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6	71.7 69.9 68.0 66.2 64.3 58.3 56.3 54.2 51.9 49.7 42.5 39.6	## Act of D set Ari ## Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 19,860 17,920 13,800 11,790 10,860 10,090 9,360 8,730 7,620 7,140 6,670	Load Radius (ft) 55.0 60.0 65.0 70.0 80.0 85.0 90.0 100.0 105.0 115.0 115.0	79.3 77.5 75.7 73.8 69.9 68.0 66.1 66.1 69.9 59.8 57.6	Rated Load (lbs) 15,100* 14,500* 13,930* 13,420* 12,940* 12,520* 11,170* 11,140* 11,130* 10,860* 10,420 9,650	Load Radius (ft) 45.0 50.0 55.0 60.0 75.0 80.0 85.0 90.0 105.0 115.0 120.0 125.0 130.0 1335.0	(deg.) 80.0 78.4 71.7 69.9 68.2 66.5 64.7 55.1 55.1 55.1 48.8 46.6 44.1	## Pated Load (lbs) 20,000* 20,000* 20,000* 20,000* 20,000* 10,570* 16,530 11,560 11,950 11,960 11,000 10,220 9,470 8,840 8,260 7,730 7,250 6,760	60.0 65.0 70.0 95.0 100.0 115.0 125.0 125.0	79.9 78.2 76.5 74.6 72.8 63.4 61.4 61.4 59.2 57.1 54.9	### Pated Load (lbs) 11,480* 11,020* 10,620* 10,200* 9,850* 9,540* 9,230* 8,950* 8,700* 8,480* 8,260* 7,870* 7,710*	Load Radius (t) 50.0 55.0 60.0 75.0 80.0 75.0 85.0 100.0 115.0 115.0 125.0 135.0 140.0 145.0	79.5 77.9 76.3 74.8 74.8 74.5 66.6 64.8 66.1 61.4 59.6 57.7 55.9 54.0 52.0 52.0 52.0 47.8 45.6	Rate Loac (lbs) 18,000 18,000 18,000 18,000 14,900 14,100 13,333 11,97 11,41 10,889 10,31 9,566 8,938 8,782 7,336 6,641	60 10 10 10 10 10 10 10 10 10 10 10 10 10	60 ft Jib Angle (d An	60 ft Jib Angle (deg.) 6

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

Reeves

Capacities based on factors other than machine stability such as structural competence are shown by asterisk * in the charts.

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Fixed Jib Lift Capacity

Full Counterweight: 69,000 lbs

Carbody Weight: 31,800

	140)' Boo	m																				
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		O set Ar	igle (d	· ·				O set Ar	igle (d	0 /				O set Ar	gle (d	· ·				O set Ar	ngle (d	· ·	
Load	10 Boom	Rated	Load	30 Boom	Rated	Load	10 Boom	Rated	Load	30 Boom	Rated	Load	10 Boom	Rated	Load	30 Boom	Rated	Load	10 Boom	Rated	Load	30 Boom	Rated
Radius	Angle (deg.)	Load (lbs)	Radius (ft)	Angle (deg.)	Load (lbs)	Radius (ft)	Angle (deg.)	Load (lbs)	Radius (ft)	Angle	Load (lbs)	Radius (ft)	Angle (deg.)	Load (lbs)	Radius (ft)	Angle (deg.)	Load (lbs)	Radius (ft)	Angle (deg.)	Load (lbs)	Radius (ft)		Load (lbs)
(ft) 40.0	79.6	24,000*	(11)	(ueg.)	(103)	45.0	79.4	24,000*	(11)	(deg.)	(IDS)	50.0	79.1	20,000*	(11)	(ueg.)	(IDS)	55.0	78.5	18,000*	(11)	(ueg.)	(IDS)
45.0	77.9	24,000*				50.0	77.8	24,000*				55.0	77.4	20,000*				60.0	77.0	18,000*			
50.0	76.2	24,000*	50.0	79.2	21,000*	55.0	76.1	24,000*	55.0	79.9	15,320*	60.0	75.9	20,000*			44.4704	65.0	75.6	17,700*			0.050+
55.0 60.0	74.4 72.6	24,000 * 23,980	55.0 60.0	77.4 75.6	21,000* 20,540*	60.0 65.0	74.4 72.8	24,000 * 21,730	60.0 65.0	78.2 76.5	14,720 * 14,170*	65.0 70.0	74.3 72.8	20,000 * 19,480*	65.0 70.0	78.8 77.2	11,170 * 10,780*	70.0 75.0	74.1 72.5	16,570* 15,520*	70.0 75.0	79.3 77.7	8,950 * 8,590*
65.0	70.9	21,450	65.0	73.8	19,770*	70.0	71.1	19,590	70.0	74.8	13,690*	75.0	71.1	17,850	75.0	75.5	10,380*	80.0	71.0	14,630*	80.0	76.1	8,310*
70.0	69.1	19,330	70.0	72.0	19,060*	75.0	69.3	17,650	75.0	72.9	13,180*	80.0	69.4	16,260	80.0	73.8	10,030*	85.0	69.4	13,840*	85.0	74.5	8,020*
75.0 80.0	67.2 65.3	17,390 15,850	75.0 80.0	70.0 68.1	17,940 16,330	80.0 85.0	67.6 65.9	16,090 14,720	80.0 85.0	71.2 69.4	12,760* 12,380*	85.0 90.0	67.8 66.2	14,880 13,660	85.0 90.0	72.1 70.4	9,720 * 9,430*	90.0 95.0	67.9 66.2	13,130* 12,450*	90.0 95.0	72.9 71.2	7,760* 7,510*
85.0	63.5	14,480	85.0	66.2	14,940	90.0	64.1	13,510	90.0	67.6	12,030*	95.0	64.4	12,520	95.0	68.6	9,120*	100.0	64.6	11,680	100.0	69.5	7,270*
90.0	61.6	13,290	90.0	64.3	13,690	95.0	62.2	12,360	95.0	65.6	11,680*	100.0	62.7	11,570	100.0	66.8	8,880*	105.0	63.0	10,820	105.0	67.8	7,070*
95.0 100.0	59.5 57.5	12,160 11,220	95.0 100.0	62.2 60.1	12,540 11,550	100.0 105.0	60.3 58.5	11,410 10,580	100.0 105.0	63.7 61.8	11,370 * 10,970	105.0 110.0	60.9 59.2	10,710 9,940	105.0 110.0	65.0 63.2	8,660 * 8,440*	110.0 115.0	61.4 59.6	10,050 9,300	110.0 115.0	66.1 64.3	6,870 * 6,700*
105.0	55.5	10,380	105.0	58.1	10,690	110.0	56.6	9,810	110.0	59.8	10,370	115.0	57.3	9,190	115.0	61.2	8,220*	120.0	57.9	8,660	120.0	62.5	6,520*
110.0	53.4	9,630	110.0	55.9	9,890	115.0	54.5	9,060	115.0	57.6	9,410	120.0	55.4	8,550	120.0	59.3	8,040*	125.0	56.1	8,060	125.0	60.7	6,370*
115.0 120.0	51.1 48.9	8,900 8,260	115.0 120.0	53.5 51.3	9,120 8,480	120.0 125.0	52.5 50.4	8,420 7,840	120.0 125.0	55.5 53.4	8,730 8,130	125.0 130.0	53.5 51.6	7,980 7,450	125.0 130.0	57.3 55.3	7,870 * 7,710*	130.0 135.0	54.3 52.5	7,530 7,030	130.0 135.0	58.8 56.9	6,230 * 6,100*
125.0	46.6	7,690	120.0	31.3	0,400	130.0	48.2	7,310	123.0	33.4	0,130	135.0	49.5	6,940	135.0	53.1	7,250	140.0	50.5	6,540	140.0	54.7	5,970*
130.0	44.2	7,180				135.0	46.0	6,830				140.0	47.3	6,450				145.0	48.5	6,120	145.0	52.7	5,860*
135.0 140.0	41.7 38.8	6,700 6,060*				140.0 145.0	43.5 41.1	6,370 5,880*				145.0 150.0	45.1 42.9	6,040 5,640*				150.0 155.0	46.5 44.4	5,730 5,350*			
145.0	36.0	5,400*				150.0	38.5	5,290*				155.0	40.5	5,090*				160.0	42.0	4,820*			
150.0	32.9	4,760*				155.0	35.7	4,690*				160.0	37.8	4,540*				165.0	39.7	4,340*			
						160.0	32.5	4,070*				165.0 170.0	35.1 32.2	4,010 * 3,500*				170.0 175.0	37.3 34.7	3,880* 3,410*			
Ree	VAS	1	Rec	eves	1	Rec	ves	1	Ree	ves	1		ves	3,300 1	Rec	ves	1		eves	1	Rec	eves	1
)' Boo										1.55		-			-						-
			••••																				
		301	t J ib					401	t Jib					50 f	t Jib					601	ft J ib		
	(O set Ar		'eg.)			(40 t O set An		eg.)			(50 t O set An		eg.)			(60 i O set Ar		eg.)	
	10	O set An	gle (d	30			10	O set An	ngle (d	30			10	O set An	gle (d	30			10	O set Ar	ngle (d	30	201
Load Radius (ft)		O set Ar		30 Boom	Rated Load (lbs)	Load Padius (ft)		O set Ar			Pated Load (lbs)	Load Radius (ft)		O set An		<u> </u>	Rated Load (lbs)	Load Radius (ft)		O set Ar		30 Boom	Rated Load (lbs)
Radius (ft) 45.0	Boom Angle (deg.) 78.6	Pated Load (lbs) 24,000*	Load Radius (ft)	30 Boom Angle (deg.)	Rated Load (lbs)	Radius (ft) 45.0	Boom Angle (deg.) 80.0	Pated Load (lbs) 24,000*	Load Radius	30 Boom Angle	Rated Load	Radius (ft) 50.0	Boom Angle (deg.)	Rated Load (lbs) 20,000*	gle (d Load Radius	30 Boom Angle	Load	Radius (ft) 55.0	Boom Angle (deg.)	Rated Load (lbs) 18,000*	ngle (d Load Radius	30 Boom Angle	Load
######################################	800m Angle (deg.) 78.6 77.0	Rated Load (lbs) 24,000* 24,000*	Load Radius (ft)	30 Boom Angle (deg.)	Rated Load (lbs) 21,000*	### Adius (ft) 45.0 50.0	80.0 78.5	Rated Load (lbs) 24,000* 24,000*	Load Radius	30 Boom Angle	Rated Load	### Solution	10 Boom Angle (deg.) 79.6 78.1	Rated Load (lbs) 20,000* 20,000*	gle (d Load Radius	30 Boom Angle	Load	### Radius (ft) 55.0 60.0	79.1 77.7	Rated Load (lbs) 18,000* 18,000*	ngle (d Load Radius	30 Boom Angle	Load
Radius (ft) 45.0	Boom Angle (deg.) 78.6	Pated Load (lbs) 24,000*	Load Radius (ft)	30 Boom Angle (deg.)	Rated Load (lbs)	Radius (ft) 45.0	Boom Angle (deg.) 80.0	Pated Load (lbs) 24,000*	Load Radius	30 Boom Angle	Rated Load	Radius (ft) 50.0	Boom Angle (deg.)	Rated Load (lbs) 20,000*	gle (d Load Radius	30 Boom Angle	Load	Radius (ft) 55.0	Boom Angle (deg.)	Rated Load (lbs) 18,000*	ngle (d Load Radius	30 Boom Angle	Load
45.0 50.0 55.0 60.0 65.0	78.6 77.0 73.6 72.0	Rated Load (lbs) 24,000* 24,000* 24,000* 23,800 21,270	Load Radius (ft) 50.0 55.0 60.0 65.0	30 Boom Angle (deg.) 79.9 78.1 76.4 74.8	Rated Load (lbs) 21,000* 21,000* 20,890* 20,150*	45.0 50.0 55.0 60.0 65.0	80.0 78.5 76.8 73.7	Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 21,580	Load Radius (ft)	30 Boom Angle (deg.) 78.9 77.3	Rated Load (lbs) 14,920* 14,390*	50.0 55.0 60.0 65.0 70.0	79.6 78.1 76.6 75.1 73.7	Rated Load (lbs) 20,000* 20,000* 20,000* 20,000* 19,640	Load Radius (ft) 65.0 70.0	30 Boom Angle (deg.) 79.4 77.9	Load (lbs) 11,330* 10,930*	55.0 60.0 65.0 70.0 75.0	79.1 77.7 76.3 74.9	Rated Load (lbs) 18,000* 18,000* 18,000* 17,120* 16,040*	Load Radius (ft)	30 Boom Angle (deg.) 79.9 78.3	Load (lbs) 9,060* 8,700*
45.0 50.0 55.0 60.0	78.6 77.0 73.6	Rated Load (lbs) 24,000* 24,000* 24,000* 23,800 21,270 19,150	Load Radius (ft) 50.0 55.0 60.0	30 Boom Angle (deg.) 79.9 78.1 76.4	Pated Load (lbs) 21,000* 21,000* 20,890* 20,150* 19,440*	### Adjus (ft) 45.0 50.0 55.0 60.0	80.0 78.5 76.8 75.3	Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 21,580 19,420	Load Radius (ft)	30 Boom Angle (deg.)	Rated Load (lbs) 14,920* 14,390* 13,910*	Fadius (ft) 50.0 55.0 60.0 65.0	79.6 76.6 75.1	Rated Load (lbs) 20,000* 20,000* 20,000* 19,640 17,680	Load Radius (ft)	30 Boom Angle (deg.)	Load (lbs) 11,330* 10,930* 10,530*	Fadius (ft) 55.0 60.0 65.0 70.0	79.1 76.3 74.9	Rated Load (lbs) 18,000* 18,000* 18,000* 17,120* 16,040* 15,160*	Load Radius (ft)	30 Boom Angle (deg.)	9,060* 8,700* 8,420*
45.0 50.0 55.0 60.0 65.0 75.0 80.0	78.6 77.0 75.3 73.6 72.0 70.3 68.5 66.8	Pated Load (lbs) 24,000* 24,000* 24,000* 21,270 19,150 17,210 15,670	Load Radius (ft) 50.0 55.0 60.0 65.0 70.0 75.0 80.0	30 Boom Angle (deg.) 79.9 78.1 76.4 74.8 73.1 71.2 69.5	21,000* 21,000* 21,000* 20,890* 20,150* 19,440* 17,810 16,200	### Radius (ft) 45.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0	80.0 78.5 76.8 75.3 73.7 72.1 70.5 68.8	Pated Load (lbs) 24,000* 24,000* 24,000* 24,000* 21,580 19,420 17,480 15,890	Load Radius (ft) 60.0 65.0 70.0 75.0 80.0	30 Boom Angle (deg.) 78.9 77.3 75.7 73.9 72.3	### Rated Load (lbs) 14,920* 14,390* 13,910* 13,420* 13,000*	Radius (ft) 50.0 55.0 60.0 65.0 70.0 75.0 80.0	79.6 78.1 76.6 75.1 73.7 72.1 70.5 69.0	Pated Load (lbs) 20,000* 20,000* 20,000* 20,000* 19,640 17,680 16,090 14,700	Load Radius (ft) 65.0 70.0 75.0 80.0 85.0	30 Boom Angle (deg.) 79.4 77.9 76.3 74.7 73.1	11,330* 10,930* 10,530* 10,200* 9,870*	Radius (ft) 55.0 60.0 65.0 70.0 75.0 85.0 90.0	79.1 77.7 76.3 74.9 73.4 71.9 70.5 69.0	Rated Load (lbs) 18,000* 18,000* 18,000* 16,040* 15,160* 14,350* 13,620	Load Radius (ft) 70.0 75.0 80.0 85.0 90.0	30 Boom Angle (deg.) 79.9 78.3 76.8 75.3 73.8	9,060* 8,700* 8,420* 8,130* 7,890*
45.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0	78.6 77.0 75.3 73.6 72.0 70.3 68.5 66.8 65.1	Pated Load (lbs) 24,000* 24,000* 24,000* 21,270 19,150 17,210 15,670 14,300	Load Radius (ft) 50.0 55.0 60.0 65.0 70.0 75.0 80.0	30 Boom Angle (deg.) 79.9 78.1 76.4 74.8 73.1 71.2 69.5 67.7	21,000* 21,000* 21,000* 20,890* 20,150* 19,440* 17,810 16,200 14,790	### Radius (ft) 45.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0	80.0 78.5 76.8 75.3 73.7 72.1 70.5 68.8 67.2	Pated Load (lbs) 24,000* 24,000* 24,000* 24,000* 21,580 19,420 17,480 15,890 14,520	Load Radius (ft) 60.0 65.0 70.0 75.0 80.0 85.0	30 Boom Angle (deg.) 78.9 77.3 75.7 73.9 72.3 70.6	Pated Load (lbs) 14,920* 14,390* 13,910* 13,420* 13,000* 12,630*	75.0 50.0 55.0 60.0 65.0 70.0 75.0 85.0 90.0	79.6 78.1 76.6 75.1 73.7 72.1 70.5 69.0 67.5	Rated Load (lbs) 20,000* 20,000* 20,000* 20,000* 19,640 17,680 16,090 14,700 13,490	Load Radius (ft) 65.0 70.0 75.0 80.0 90.0	30 Boom Angle (deg.) 79.4 77.9 76.3 74.7 73.1 71.5	11,330* 10,930* 10,530* 10,200* 9,870* 9,590*	Radius (ft) 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	70.5 Boom Angle (deg.) 79.1 77.7 76.3 74.9 73.4 71.9 70.5 69.0	Rated Load (lbs) 18,000* 18,000* 18,000* 16,040* 15,160* 14,350* 13,620 12,450	Control Load Radius (ft) 70.0 75.0 80.0 85.0 90.0 95.0	30 Boom Angle (deg.) 79.9 78.3 76.8 75.3 73.8 72.2	9,060* 8,700* 8,420* 8,130* 7,890* 7,620*
45.0 50.0 55.0 60.0 65.0 75.0 80.0	78.6 77.0 75.3 73.6 72.0 70.3 68.5 66.8	Pated Load (lbs) 24,000* 24,000* 24,000* 21,270 19,150 17,210 15,670	Load Radius (ft) 50.0 55.0 60.0 65.0 70.0 75.0 80.0	300 Boom Angle (deg.) 79.9 78.1 76.4 74.8 73.1 71.2 69.5 67.7 65.9	21,000* 21,000* 21,000* 20,890* 20,150* 19,440* 17,810 16,200	### Radius (ft) 45.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0	80.0 78.5 76.8 75.3 73.7 72.1 70.5 68.8	Pated Load (lbs) 24,000* 24,000* 24,000* 24,000* 21,580 19,420 17,480 15,890	Load Radius (ft) 60.0 65.0 70.0 75.0 80.0	30 Boom Angle (deg.) 78.9 77.3 75.7 73.9 72.3	### Rated Load (lbs) 14,920* 14,390* 13,910* 13,420* 13,000*	Radius (ft) 50.0 55.0 60.0 65.0 70.0 75.0 80.0	79.6 78.1 76.6 75.1 73.7 72.1 70.5 69.0	Pated Load (lbs) 20,000* 20,000* 20,000* 20,000* 19,640 17,680 16,090 14,700	Load Radius (ft) 65.0 70.0 75.0 80.0 85.0	30 Boom Angle (deg.) 79.4 77.9 76.3 74.7 73.1	11,330* 10,930* 10,530* 10,200* 9,870*	Radius (ft) 55.0 60.0 65.0 70.0 75.0 85.0 90.0	79.1 77.7 76.3 74.9 73.4 71.9 70.5 69.0	Rated Load (lbs) 18,000* 18,000* 18,000* 16,040* 15,160* 14,350* 13,620	Load Radius (ft) 70.0 75.0 80.0 85.0 90.0	30 Boom Angle (deg.) 79.9 78.3 76.8 75.3 73.8 72.2	9,060* 8,700* 8,420* 8,130* 7,890*
### Addius (ft) ### 45.0 ### 55.0 ### 65.0 ### 75.0 ### 75.0 ### 85.0 ### 95.0 ### 100	78.6 77.0 75.3 73.6 72.0 70.3 68.5 66.8 65.1 63.3 61.4 59.6	Pated Load (lbs) 24,000* 24,000* 24,000* 23,800 21,270 19,150 17,210 15,670 14,300 13,110 11,990 11,040	Load Radius (ft) 50.0 55.0 60.0 65.0 75.0 80.0 95.0 100.0	30 Boom Angle (deg.) 79.9 78.1 76.4 74.8 73.1 71.2 69.5 67.7 65.9 63.9 62.1	Pated Load (lbs) 21,000* 20,890* 20,150* 19,440* 16,200 14,790 13,530 12,360 11,390	### Addius (ft) 45.0	80.0 78.5 76.8 75.3 73.7 72.1 70.5 68.8 67.2 65.6 63.8 62.1	Pated Load (lbs) 24,000* 24,000* 24,000* 24,000* 21,580 19,420 17,480 15,890 14,520 13,310 12,190 11,240	60.0 65.0 70.0 85.0 90.0 95.0 100.0	78.9 77.3 75.7 73.9 70.6 68.9 67.1 65.3	Pated Load (lbs) 14,920* 14,390* 13,910* 13,420* 12,630* 12,270* 11,920* 11,610*	75.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 105.0	79.6 78.1 76.6 75.1 73.7 72.1 70.5 69.0 67.5 65.8 64.2 62.6	Rated Load (lbs) 20,000* 20,000* 20,000* 20,000* 19,640 17,680 16,090 14,700 13,490 12,340 11,390 10,530	65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0	30 Boom Angle (deg.) 79.4 77.9 76.3 74.7 73.1 71.5 69.8 68.2 66.5	11,330* 10,930* 10,530* 10,200* 9,870* 9,590* 9,300* 9,060* 8,810*	75.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 110.0	79.1 77.7 76.3 74.9 73.4 71.9 70.5 69.0 67.4 65.9 64.4 62.9	Pated Load (lbs) 18,000* 18,000* 18,000* 17,120* 16,040* 14,350* 13,620 12,450 11,500 10,640 9,850	70.0 75.0 80.0 95.0 100.0 110.0	30 Boom Angle (deg.) 79.9 78.3 76.8 75.3 73.8 72.2 70.6 69.1 67.5	9,060* 8,700* 8,420* 8,130* 7,620* 7,400* 7,200* 7,010*
### Addius (ft) ### 45.0 ### 55.0 ### 65.0 ### 65.0 ### 75.0 ### 85.0 ### 95.0 ### 100.0 ### 105	70.3 73.6 77.0 75.3 73.6 72.0 70.3 68.5 66.8 65.1 63.3 61.4 59.6 57.7	Pated Load (lbs) 24,000* 24,000* 24,000* 24,000* 21,270 19,150 17,210 15,670 14,300 13,110 11,990 10,200	Load Radius (ft) 50.0 55.0 60.0 65.0 75.0 80.0 85.0 90.0 95.0 100.0	30 Boom Angle (deg.) 79.9 78.1 76.4 74.8 73.1 71.2 69.5 67.7 65.9 63.9 62.1 60.2	21,000* 21,000* 21,000* 20,890* 20,150* 19,440* 17,810 16,200 14,790 13,530 11,390 10,510	### Addius (ft) 45.0 ### 50.0 ### 55.0 ### 60.0 ### 65.0 ### 75.0 ### 85.0 ### 95.0 ### 95.0 ### 100.0 ### 105.0 ###	80.0 78.5 76.8 75.3 73.7 72.1 70.5 68.8 67.2 65.6 63.8 62.1 60.3	Pated Load (lbs) 24,000* 24,000* 24,000* 24,000* 21,580 19,420 17,480 15,890 14,520 13,310 12,190 10,380	60.0 65.0 70.0 85.0 90.0 95.0 100.0 105.0	78.9 77.3 75.7 73.9 70.6 68.9 67.1 65.3 63.5	Pated Load (lbs) 14,920* 14,390* 13,910* 13,420* 12,630* 12,270* 11,920* 11,610* 10,820	75.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 110.0	79.6 78.1 76.6 75.1 73.7 72.1 70.5 69.0 67.5 65.8 64.2 62.6 60.9	Pated Load (lbs) 20,000* 20,000* 20,000* 20,000* 19,640 17,680 16,090 14,700 13,490 12,340 11,390 9,760	65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 110.0	30 Boom Angle (deg.) 79.4 77.9 76.3 74.7 73.1 71.5 69.8 68.2 66.5 64.8	11,330* 10,930* 10,530* 10,200* 9,870* 9,590* 9,060* 8,810* 8,590*	75.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 115.0	79.1 77.7 76.3 74.9 73.4 71.9 70.5 69.0 67.4 65.9 64.4 62.9 61.2	Pated Load (lbs) 18,000* 18,000* 18,000* 17,120* 16,040* 15,160* 14,350* 13,620 12,450 11,500 10,640 9,850 9,100	70.0 75.0 80.0 95.0 100.0 115.0 115.0	79.9 78.3 76.8 75.3 73.8 72.2 70.6 69.1 67.5 65.7	9,060* 8,700* 8,420* 8,130* 7,620* 7,400* 7,200* 7,010* 6,830*
### Radius (ft) 45.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0 95.0 100.0 115.0 115.0	78.6 77.0 75.3 73.6 72.0 70.3 68.5 66.8 65.1 63.3 61.4 59.6	Pated Load (lbs) 24,000* 24,000* 24,000* 23,800 21,270 19,150 17,210 15,670 14,300 13,110 11,990 11,040	Load Radius (ft) 50.0 55.0 60.0 65.0 75.0 80.0 95.0 100.0	30 Boom Angle (deg.) 79.9 78.1 76.4 74.8 73.1 71.2 69.5 67.7 65.9 63.9 62.1 60.2 58.2	Pated Load (lbs) 21,000* 20,890* 20,150* 19,440* 16,200 14,790 13,530 12,360 11,390	### Addius (ft) 45.0	70.5 68.8 62.1 60.3 58.6 56.7	Pated Load (lbs) 24,000* 24,000* 24,000* 24,000* 21,580 19,420 17,480 15,890 14,520 13,310 12,190 11,240	60.0 65.0 70.0 85.0 90.0 95.0 100.0	78.9 77.3 75.7 73.9 72.3 70.6 68.9 67.1 65.3 63.5 61.7 59.7	Pated Load (lbs) 14,920* 14,390* 13,910* 13,420* 12,630* 12,270* 11,920* 11,610*	75.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 110.0 115.0 120.0	79.6 78.1 76.6 75.1 73.7 72.1 70.5 69.0 67.5 65.8 64.2 62.6	Rated Load (lbs) 20,000* 20,000* 20,000* 20,000* 19,640 17,680 16,090 14,700 13,490 12,340 11,390 10,530	65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0	30 Boom Angle (deg.) 79.4 77.9 76.3 74.7 73.1 71.5 69.8 68.2 66.5 64.8	11,330* 10,930* 10,530* 10,200* 9,870* 9,590* 9,300* 9,060* 8,810*	75.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 110.0	79.1 77.7 76.3 74.9 73.4 71.9 70.5 69.0 67.4 65.9 64.4 62.9 61.2	Pated Load (lbs) 18,000* 18,000* 18,000* 17,120* 16,040* 14,350* 13,620 12,450 11,500 10,640 9,850	70.0 75.0 80.0 95.0 100.0 110.0	79.9 78.3 76.8 75.3 73.8 72.2 70.6 69.1 67.5 65.7	9,060* 8,700* 8,420* 8,130* 7,620* 7,400* 7,200* 7,010* 6,830* 6,650* 6,500*
### Redius (ft) 45.0 50.0 55.0 60.0 65.0 70.0 80.0 80.0 90.0 95.0 100.0 115.0 120.0	70.0 Boom Angle (deg.) 78.6 77.0 75.3 73.6 68.5 66.8 65.1 63.3 61.4 59.6 57.7 55.8 53.7 51.7	Pated Load (lbs) 24,000* 24,000* 24,000* 24,000* 21,270 19,150 17,210 11,900 11,900 11,900 11,900 11,900 9,430 8,090	Gle (d Radius (ft) 50.0 55.0 66.0 70.0 75.0 80.0 85.0 90.0 91.0 105.0 110.0 115.0	300 Boom Angle (deg.) 79.9 78.1 76.4 74.8 73.1 71.2 69.5 67.7 65.9 62.1 60.2 58.2 56.1	21,000* 21,000* 21,000* 20,890* 20,150* 19,440* 17,810 16,200 14,790 13,530 12,360 11,390 10,510 9,720 8,970 8,310	Radius (ft) 45.0 50.0 55.0 60.0 65.0 70.0 85.0 80.0 90.0 95.0 100.0 115.0 110.0	70.5 80.0 78.5 76.8 75.3 73.7 72.1 70.5 68.8 67.2 65.6 63.8 62.1 60.3 58.6 56.7 54.8	Pated Load (lbs) 24,000* 24,000* 24,000* 21,580 19,420 17,480 14,520 13,310 12,190 11,240 10,380 9,610 8,860 8,240	Gle (d. Load Radius (ft) Load Radius (ft) Road Radius (ft	78.9 77.3 75.7 73.9 66.9 67.1 65.3 63.5 61.7 59.7 57.8	Pated Load (lbs) 14,920* 14,390* 13,910* 13,420* 13,000* 12,630* 12,270* 11,920* 11,610* 10,820 10,820 9,230 8,570	75.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 115.0 120.0 125.0	79.6 78.1 76.6 75.1 70.5 69.0 66.2 62.6 60.9 59.1 57.4 55.7	Pated Load (lbs) 20,000* 20,000* 20,000* 20,000* 19,640 17,680 14,700 13,490 12,340 11,390 10,530 9,760 9,010 8,370 7,780	Gle (d Radius (ft) 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 115.0 120.0 125.0	79.4 77.9 76.3 74.7 73.1 71.5 69.8 66.5 64.8 62.9 61.2 59.3	11,330* 10,930* 10,530* 10,200* 9,870* 9,590* 9,300* 9,060* 8,810* 8,590* 8,390* 8,200* 8,020*	75.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 115.0 120.0 125.0	79.1 76.3 74.9 70.5 69.0 66.4 62.9 61.2 59.6 58.0 56.3	Pated Load (lbs) 18,000* 18,000* 18,000* 17,120* 16,040* 15,160* 14,3502* 12,450 11,500 10,640 9,850 9,100 8,460 7,870 7,340	70.0 75.0 80.0 85.0 90.0 100.0 110.0 125.0 130.0	79.9 79.9 78.3 76.8 75.3 73.8 70.6 69.1 67.5 65.7 64.1 62.4 60.7	9,060* 8,700* 8,420* 8,130* 7,620* 7,400* 7,200* 7,010* 6,650* 6,500* 6,500* 6,370*
### Redius (ft) 45.0 50.0 55.0 60.0 65.0 70.0 80.0 90.0 95.0 100.0 115.0 120.0 125.0	70.0 78.6 77.0 75.3 73.6 72.0 70.3 68.5 66.8 65.1 59.6 57.7 55.8 53.7 49.6	Pated Load (lbs) 24,000* 24,000* 24,000* 24,900* 24,900* 24,900* 24,900* 19,150 17,210 15,670 14,300 13,110 11,040 10,200 9,430 8,700 8,090 7,510	Load Padius (ft) 50.0 65.0 65.0 70.0 85.0 95.0 100.0 115.0 115.0	300 Boom Angle (deg.) 79.9 78.1 76.4 74.8 73.1 71.2 69.5 67.7 65.9 62.1 60.2 58.2 56.1	21,000* 21,000* 21,000* 20,890* 20,150* 19,440* 17,810 16,200 14,790 13,530 12,360 11,390 10,510 9,720 8,970	Radius (ft) 45.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0 90.0 95.0 100.0 115.0 120.0 125.0	70.5 80.0 78.5 76.8 75.3 73.7 72.1 70.5 66.8 67.2 65.6 60.3 58.6 56.7 54.8 52.9	Z set Ar Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 21,580 19,420 17,480 15,890 14,520 13,310 11,240 10,380 9,610 8,860 7,670	Gle (d Load Radius (ft) 60.0 65.0 70.0 75.0 80.0 95.0 100.0 110.0 120.0 125.0	78.9 77.3 75.7 73.9 70.6 68.9 66.1 65.3 63.5 61.7 59.7 57.8	14,920* 14,390* 13,910* 13,420* 13,000* 12,630* 12,270* 11,920* 11,610* 10,820 10,030 9,230 8,570 7,950	75.0 65.0 70.0 75.0 80.0 85.0 90.0 100.0 110.0 115.0 120.0 130.0	79.6 75.1 70.5 65.8 64.2 66.9 59.1 57.4 55.7 53.9	Pated Load (lbs) 20,000* 20,000* 20,000* 20,000* 19,680 16,090 14,700 13,490 12,340 10,530 9,760 9,010 8,370 7,780 7,250	Gle (d Radius (tt) 65.0 70.0 75.0 80.0 85.0 90.0 95.0 115.0 120.0 125.0 130.0	79.4 77.9 76.3 74.7 73.1 71.5 69.8 68.2 66.5 64.8 62.9 61.2 59.3 57.5	11,330* 10,930* 10,530* 10,200* 9,870* 9,590* 9,060* 8,810* 8,590* 8,200* 7,620	75.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 105.0 115.0 125.0 135.0	79.1 77.5 69.0 67.4 65.9 61.2 59.6 354.6 56.3 54.6	Pated Load (lbs) 18,000* 18,000* 18,000* 17,120* 16,040* 14,350* 13,620 12,450 11,500 9,100 8,460 7,870 7,340 6,830	70.0 75.0 80.0 85.0 90.0 105.0 110.0 125.0 135.0 135.0	79.9 78.3 76.8 75.3 76.8 72.2 70.6 69.1 67.5 64.1 60.7 58.9	9,060* 8,700* 8,420* 8,130* 7,620* 7,200* 7,200* 7,010* 6,830* 6,500* 6,570* 6,210*
Redius (ft) 45.0 55.0 65.0 65.0 75.0 85.0 95.0 85.0 90.0 105.0 115.0 125.0 135.0	70.0 Boom Angle (deg.) 78.6 77.0 75.3 73.6 68.5 66.8 65.1 63.3 61.4 59.6 57.7 55.8 75.7 75.3 749.6 47.5 45.3	Pated Load (lbs) 24,000* 24,000* 24,000* 24,000* 21,270 19,150 17,210 15,670 14,300 13,110 11,904 10,200 9,430 8,700 8,090 7,510 6,980 6,500	Gle (d Radius (ft) 50.0 55.0 66.0 70.0 75.0 80.0 85.0 90.0 91.0 105.0 110.0 115.0	300 Boom Angle (deg.) 79.9 78.1 76.4 74.8 73.1 71.2 69.5 67.7 65.9 62.1 60.2 58.2 56.1	21,000* 21,000* 21,000* 20,890* 20,150* 19,440* 17,810 16,200 14,790 13,530 12,360 11,390 10,510 9,720 8,970 8,310	Padius (ft) 45.0 50.0 55.0 60.0 75.0 80.0 85.0 90.0 100.0 110.0 125.0 130.0 135.0	76.5 75.3 77.2 70.5 68.8 67.2 65.6 63.8 62.1 60.3 58.6 75.3 72.1 70.5 68.8 67.2 65.6 63.8 62.1 60.3 58.6 75.3 75.3 75.3 70.5 68.8 67.2 69.8 69.9 69.9 69.9 69.9 69.9 69.9 69.9	Pated Load (lbs) 24,000* 24,000* 24,000* 24,000* 21,580 19,420 15,890 14,520 13,310 12,190 10,380 9,610 8,860 8,240 7,670 6,630	Gle (d. Load Radius (ft) Load Radius (ft) Road Radius (ft	78.9 77.3 75.7 73.9 66.9 67.1 65.3 63.5 61.7 59.7 57.8	Pated Load (lbs) 14,920* 14,390* 13,910* 13,420* 13,000* 12,630* 12,270* 11,920* 11,610* 10,820 10,820 9,230 8,570	Fadius (ft) 50.0 55.0 60.0 65.0 75.0 80.0 75.0 80.0 95.0 100.0 115.0 125.0 133.0 135.0 140.0	79.6 (deg.) 79.6 (75.1 73.7 72.1 70.5 69.0 66.5 66.8 64.2 62.6 60.9 59.1 57.4 55.7 952.0 50.0	Pated Load (lbs) 20,000* 20,000* 20,000* 20,000* 17,640 17,690 14,700 13,490 11,390 10,530 9,760 9,010 8,370 7,250 6,740 6,260	Gle (d Radius (ft) 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 115.0 120.0 125.0	79.4 77.9 76.3 74.7 73.1 71.5 69.8 66.5 64.8 62.9 61.2 59.3	11,330* 10,930* 10,530* 10,200* 9,870* 9,590* 9,300* 9,060* 8,810* 8,590* 8,390* 8,200* 8,020*	Fadius (ft) 55.0 60.0 65.0 70.0 775.0 88.0 99.0 95.0 100.0 115.0 125.0 1330.0 1440.0 145.0	79.1 77.7 76.3 74.9 70.5 69.0 64.4 62.9 61.2 59.6 58.0 55.4 6 52.8 51.0	Pated Load (lbs) 18,000* 18,000* 18,000* 18,000* 17,120* 16,040* 15,160* 14,350* 13,620 12,450 11,500 10,640 9,800 9,100 8,460 7,870 7,340 6,830 6,340 5,930	70.0 Policy (ft) 70.0 Policy	79.9 78.3 76.8 75.3 73.8 69.1 67.5 66.7 64.1 62.4 60.7 55.1	9,060* 8,700* 8,420* 8,130* 7,620* 7,400* 7,2010* 6,830* 6,650* 6,500* 6,210* 6,210* 6,080* 5,970*
Redius (ft) 45.0 55.0 66.0 65.0 670.0 75.0 80.0 85.0 100.0 115.0 120.0 135.0 135.0 140.0	78.6 (deg.) 78.6 72.0 70.3 68.5 66.8 55.7 55.8 53.7 49.6 47.5 45.3 42.8	Pated Load (lbs) 24,000* 24,000* 24,000* 24,000* 21,270 19,150 17,210 15,670 14,300 13,110 11,940 11,040 9,430 8,700 8,090 7,510 6,980 6,500 6,010*	Gle (d Radius (ft) 50.0 55.0 66.0 70.0 75.0 80.0 85.0 90.0 91.0 105.0 110.0 115.0	300 Boom Angle (deg.) 79.9 78.1 76.4 74.8 73.1 71.2 69.5 67.7 65.9 62.1 60.2 58.2 56.1	21,000* 21,000* 21,000* 20,890* 20,150* 19,440* 17,810 16,200 14,790 13,530 12,360 11,390 10,510 9,720 8,970 8,310	### Radius (ft) 45.0 50.0 55.0 60.0 65.0 75.0 80.0 85.0 90.0 95.0 100.0 115.0 120.0 1330.0 135.0 140.0 150.0 140.0 140.0 140.0 150.0 140.0 140.0 140.0 150.0 140.0	## 100 Properties of the control of	Pated Load (lbs) 24,000* 24,000* 24,000* 24,000* 21,580 19,420 17,480 15,890 14,520 13,310 12,1940 10,380 9,610 8,860 8,240 7,670 7,140 6,630 6,170	Gle (d Load Radius (ft) 60.0 65.0 70.0 75.0 80.0 95.0 100.0 110.0 120.0 125.0	78.9 77.3 75.7 73.9 70.6 68.9 66.1 65.3 63.5 61.7 59.7 57.8	14,920* 14,390* 13,910* 13,420* 13,000* 12,630* 12,270* 11,920* 11,610* 10,820 10,030 9,230 8,570 7,950	Fadius (ft) 50.0 55.0 60.0 65.0 770.0 775.0 80.0 85.0 90.0 105.0 115.0 125.0 130.0 135.0 145.0	79.6 (deg.) 79.6 (75.1 73.7 72.1 70.5 69.0 67.5 66.2 62.6 60.9 59.1 57.4 55.7 53.9 50.0 48.1	Pated Load (lbs) 20,000* 20,000* 20,000* 20,000* 17,640 17,680 14,700 13,490 12,340 11,390 10,530 9,760 9,010 8,370 7,780 7,780 7,780 6,740 6,260 5,840	Gle (d Load Radius (ft) 65.0 70.0 75.0 85.0 95.0 100.0 110.0 1120.0 120.0 133.0 135.0	79.4 77.9 76.3 74.7 73.1 71.5 69.8 68.2 66.5 64.8 62.9 57.5 55.6	11,330* 10,930* 10,530* 10,200* 9,870* 9,590* 9,060* 8,810* 8,590* 8,200* 7,620 7,090	Fadius (ft) 55.00 60.0 65.0 70.0 75.0 88.0 90.0 95.0 110.0 115.0 1220.0 135.0 140.0 145.0 150.0	70.5 69.0 79.1 77.7 76.3 74.9 70.5 69.0 67.4 65.9 64.4 62.9 64.2 59.6 58.0 58.0 54.6 52.8 51.0 49.2	Pated Load (lbs) 18,000* 18,000* 18,000* 16,040* 15,160* 14,350* 13,620 12,450 11,500 10,640 9,850 9,100 8,460 7,870 7,340 6,8340 6,340 5,930 5,530	70.0 75.0 80.0 85.0 99.0 105.0 115.0 125.0 133.0 140.0 140.0	79.9 78.3 76.8 75.3 73.8 69.1 67.5 66.7 64.1 62.4 60.7 55.1	9,060* 8,700* 8,420* 8,130* 7,620* 7,620* 7,200* 7,200* 6,650* 6,500* 6,500* 6,210* 6,080*
Redius (ft) 45.0 55.0 65.0 65.0 75.0 85.0 95.0 85.0 90.0 105.0 115.0 125.0 135.0	70.0 Poorm Angle (deg.) 78.6 72.0 75.3 68.5 66.8 65.1 459.6 57.7 55.8 53.7 49.6 47.5 42.8 40.3	Pated Load (lbs) 24,000* 24,000* 24,000* 24,000* 21,270 19,150 17,210 15,670 14,300 13,110 11,904 10,200 9,430 8,700 8,090 7,510 6,980 6,500	Gle (d Radius (ft) 50.0 55.0 66.0 70.0 75.0 80.0 85.0 90.0 91.0 105.0 110.0 115.0	300 Boom Angle (deg.) 79.9 78.1 76.4 74.8 73.1 71.2 69.5 67.7 65.9 62.1 60.2 58.2 56.1	21,000* 21,000* 21,000* 20,890* 20,150* 19,440* 17,810 16,200 14,790 13,530 12,360 11,390 10,510 9,720 8,970 8,310	Padius (ft) 45.0 50.0 55.0 60.0 75.0 80.0 85.0 90.0 100.0 110.0 125.0 130.0 135.0	76.5 75.3 77.2 70.5 68.8 67.2 65.6 63.8 62.1 60.3 58.6 75.3 72.1 70.5 68.8 67.2 65.6 63.8 62.1 60.3 58.6 75.3 75.3 75.3 70.5 68.8 67.2 69.8 69.9 69.9 69.9 69.9 69.9 69.9 69.9	Pated Load (lbs) 24,000* 24,000* 24,000* 24,000* 21,580 19,420 15,890 14,520 13,310 12,190 10,380 9,610 8,860 8,240 7,670 6,630	Gle (d Load Radius (ft) 60.0 65.0 70.0 75.0 80.0 95.0 100.0 110.0 120.0 125.0	78.9 77.3 75.7 73.9 70.6 68.9 66.1 65.3 63.5 61.7 59.7 57.8	14,920* 14,390* 13,910* 13,420* 13,000* 12,630* 12,270* 11,920* 11,610* 10,820 10,030 9,230 8,570 7,950	Fadius (ft) 50.0 55.0 60.0 65.0 75.0 80.0 75.0 80.0 95.0 100.0 115.0 125.0 133.0 135.0 140.0	79.6 (deg.) 79.6 (75.1 73.7 72.1 70.5 69.0 66.5 66.8 64.2 62.6 60.9 59.1 57.4 55.7 952.0 50.0	Pated Load (lbs) 20,000* 20,000* 20,000* 20,000* 17,640 17,690 14,700 13,490 11,390 10,530 9,760 9,010 8,370 7,250 6,740 6,260	Gle (d Load Radius (ft) 65.0 70.0 75.0 85.0 95.0 100.0 110.0 1120.0 120.0 133.0 135.0	79.4 77.9 76.3 74.7 73.1 71.5 69.8 68.2 66.5 64.8 62.9 57.5 55.6	11,330* 10,930* 10,530* 10,200* 9,870* 9,590* 9,060* 8,810* 8,590* 8,200* 7,620 7,090	Fadius (ft) 55.0 60.0 65.0 70.0 775.0 88.0 99.0 95.0 100.0 115.0 125.0 1330.0 1440.0 145.0	70.5 69.0 79.1 77.7 76.3 74.9 70.5 69.0 67.4 65.9 64.4 62.9 58.0 56.3 54.6 52.8 54.6 52.8 49.2 47.3	Pated Load (lbs) 18,000* 18,000* 18,000* 18,000* 17,120* 16,040* 15,160* 14,350* 13,620 12,450 11,500 10,640 9,800 9,100 8,460 7,870 7,340 6,830 6,340 5,930	70.0 Policy (ft) 70.0 Policy	79.9 78.3 76.8 75.3 73.8 69.1 67.5 66.7 64.1 62.4 60.7 55.1	9,060* 8,700* 8,420* 8,130* 7,620* 7,400* 7,200* 6,650* 6,500* 6,500* 6,210* 6,080* 5,970*
Redius (ft) 45.0 55.0 60.0 65.0 66.0 85.0 90.0 105.0 110.0 125.0 135.0 140.0 155.0 155.0 155.0 155.0	77.0 Poom Angle (deg.) 77.3 73.6 72.0 70.3 66.8 65.1 63.3 61.4 59.6 57.7 49.6 47.5 45.3 42.8 40.3 37.8 35.0	Pated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,900 21,270 19,150 17,210 15,670 14,300 13,110 11,990 11,040 10,200 9,430 8,700 8,7510 6,980 6,500 6,500 6,500 6,500 6,500 6,500 6,500 4,250*	Gle (d Radius (ft) 50.0 55.0 66.0 70.0 75.0 80.0 85.0 90.0 91.0 105.0 110.0 115.0	300 Boom Angle (deg.) 79.9 78.1 76.4 74.8 73.1 71.2 69.5 67.7 65.9 62.1 60.2 58.2 56.1	21,000* 21,000* 21,000* 20,890* 20,150* 19,440* 17,810 16,200 14,790 13,530 12,360 11,390 10,510 9,720 8,970 8,310	Fadius (ft) 45.0 55.0 60.0 65.0 70.0 85.0 80.0 85.0 90.0 105.0 110.0 120.0 135.0 140.0 155.0 155.0	70.5 68.8 67.2 65.6 62.1 60.3 58.6 62.1 49.0 44.7 44.2 39.9	Pated Load (lbs) 24,000* 24,000* 24,000* 24,000* 21,580 17,480 15,890 14,520 13,310 12,190 11,240 10,380 9,610 8,820 7,670 7,140 6,630 6,170 5,750 5,220* 4,690*	Gle (d Load Radius (ft) 60.0 65.0 70.0 75.0 80.0 95.0 100.0 110.0 120.0 125.0	78.9 77.3 75.7 73.9 70.6 68.9 66.1 65.3 63.5 61.7 59.7 57.8	14,920* 14,390* 13,910* 13,420* 13,000* 12,630* 12,270* 11,920* 11,610* 10,820 10,030 9,230 8,570 7,950	Fedius (ft) 50.0 65.0 65.0 70.0 75.0 80.0 85.0 99.0 99.0 110.0 125.0 135.0 140.0 155.0 160.0	79.6 75.1 70.5 69.0 67.5 65.8 52.0 50.0 48.1 43.9 41.6	Pated Load (lbs) 20,000* 20,000* 20,000* 20,000* 19,640 16,090 14,700 13,490 12,340 11,390 10,530 9,760 9,010 8,370 7,780 6,740 6,260 5,840 4,980* 4,450*	Gle (d Load Radius (ft) 65.0 70.0 75.0 85.0 95.0 100.0 110.0 1120.0 120.0 133.0 135.0	79.4 77.9 76.3 74.7 73.1 71.5 69.8 68.2 66.5 64.8 62.9 57.5 55.6	11,330* 10,930* 10,530* 10,200* 9,870* 9,590* 9,060* 8,810* 8,590* 8,200* 7,620 7,090	Fadius (ft) 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 105.0 115.0 1220.0 135.0 1445.0 155.0 166.0 165.0	79.1 77.7 76.3 74.9 70.5 69.0 67.4 65.9 61.2 59.6 58.0 56.3 52.8 51.0 49.2 47.3.1	Pated Load (lbs) 18,000* 18,000* 18,000* 18,000* 16,040* 15,160* 14,350* 13,620 12,450 11,500 10,640 9,850 9,100 8,460 7,874 0,6330 6,340 5,930 5,150* 4,670* 4,230*	70.0 Policy (ft) 70.0 Policy	79.9 78.3 76.8 75.3 73.8 69.1 67.5 66.7 64.1 62.4 60.7 55.1	9,060* 8,700* 8,420* 8,130* 7,620* 7,400* 7,200* 6,650* 6,500* 6,500* 6,210* 6,080* 5,970*
Redius (ft) 45.0 45.0 65.0 65.0 65.0 70.0 75.0 85.0 95.0 100.0 115.0 125.0 125.0 135.0 145.0 150.0 145.0 150.0	77.0 Poom Angle (deg.) 77.3 73.6 72.0 70.3 66.8 65.1 63.3 61.4 59.6 57.7 49.6 47.5 45.3 42.8 40.3 37.8 35.0	Pated Load (lbs) 24,000* 24,000* 24,000* 24,900* 24,900* 21,270 19,150 17,210 15,670 14,300 13,110 11,990 11,040 10,200 9,430 8,790 7,510 6,980 6,500 6,010* 5,420* 4,820*	Gle (d Radius (ft) 50.0 55.0 66.0 70.0 75.0 80.0 85.0 90.0 91.0 105.0 110.0 115.0	300 Boom Angle (deg.) 79.9 78.1 76.4 74.8 73.1 71.2 69.5 67.7 65.9 62.1 60.2 58.2 56.1	21,000* 21,000* 21,000* 20,890* 20,150* 19,440* 17,810 16,200 14,790 13,530 12,360 11,390 10,510 9,720 8,970 8,310	Fadius (ft) 45.0 55.0 60.0 65.0 70.0 85.0 80.0 85.0 90.0 110.0 1120.0 135.0 140.0 145.0 155.0 160.0	## 100 Properties of the control of	Pated Load (lbs) 24,000* 24,000* 24,000* 24,000* 21,580 19,420 17,480 15,890 14,520 13,310 12,190 10,380 9,610 8,820 7,670 7,140 6,630 6,170 5,750 5,220* 4,690* 4,140*	Gle (d Load Radius (ft) 60.0 65.0 70.0 75.0 80.0 95.0 100.0 110.0 120.0 125.0	78.9 77.3 75.7 73.9 70.6 68.9 66.1 65.3 63.5 61.7 59.7 57.8	14,920* 14,390* 13,910* 13,420* 13,000* 12,630* 12,270* 11,920* 11,610* 10,820 10,030 9,230 8,570 7,950	Fedius (ft) 50.0 60.0 65.0 60.0 65.0 70.0 85.0 90.0 95.0 110.0 115.0 125.0 145.0 145.0 150.0 160.0 165.0	79.6 75.1 76.6 75.1 70.5 69.0 67.5 65.8 55.9 59.1 57.4 46.0 48.1 46.0 39.3	Pated Load (lbs) 20,000* 20,000* 20,000* 20,000* 19,640 11,690 14,700 13,490 12,340 11,390 11,390 7,780 7,780 7,250 6,740 6,260 5,840 5,460 4,980* 4,450* 3,990*	Gle (d Load Radius (ft) 65.0 70.0 75.0 85.0 95.0 100.0 110.0 1120.0 120.0 133.0 135.0	79.4 77.9 76.3 74.7 73.1 71.5 69.8 68.2 66.5 64.8 62.9 57.5 55.6	11,330* 10,930* 10,530* 10,200* 9,870* 9,590* 9,060* 8,810* 8,590* 8,200* 7,620 7,090	Fadius (ft) 55.0 60.0 65.0 70.0 65.0 80.0 95.0 100.0 115.0 125.0 140.0 145.0 155.0 166.0 170.0 165.0	79.1 76.3 74.9 70.5 69.0 67.4 65.9 61.2 59.6 58.0 56.3 51.0 49.2 47.3 45.2 45.1 41.0	Pated Load (lbs) 18,000* 18,000* 18,000* 18,000* 17,120* 16,040* 14,350* 13,620 12,450 11,500 10,640 9,850 9,100 8,460 7,370 7,340 6,830 6,340 5,930 5,530 5,530 4,670* 4,230* 3,790*	70.0 Policy (ft) 70.0 Policy	79.9 78.3 76.8 75.3 73.8 69.1 67.5 66.7 64.1 62.4 60.7 55.1	9,060* 8,700* 8,420* 8,130* 7,620* 7,400* 7,200* 6,650* 6,500* 6,500* 6,210* 6,080* 5,970*
Redius (ft) 45.0 55.0 60.0 65.0 66.0 85.0 90.0 105.0 110.0 125.0 135.0 140.0 155.0 155.0 155.0 155.0	77.0 Poom Angle (deg.) 77.3 73.6 72.0 70.3 66.8 65.1 63.3 61.4 59.6 57.7 49.6 47.5 45.3 42.8 40.3 37.8 35.0	Pated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,900 21,270 19,150 17,210 15,670 14,300 13,110 11,990 11,040 10,200 9,430 8,700 8,7510 6,980 6,500 6,500 6,500 6,500 6,500 6,500 6,500 4,250*	Gle (d Radius (ft) 50.0 55.0 66.0 70.0 75.0 80.0 85.0 90.0 91.0 105.0 110.0 115.0	300 Boom Angle (deg.) 79.9 78.1 76.4 74.8 73.1 71.2 69.5 67.7 65.9 62.1 60.2 58.2 56.1	21,000* 21,000* 21,000* 20,890* 20,150* 19,440* 17,810 16,200 14,790 13,530 12,360 11,390 10,510 9,720 8,970 8,310	Fadius (ft) 45.0 55.0 60.0 65.0 70.0 85.0 80.0 85.0 90.0 105.0 110.0 120.0 135.0 140.0 155.0 155.0	70.5 68.8 67.2 65.6 62.1 60.3 58.6 62.1 49.0 44.7 44.2 39.9	Pated Load (lbs) 24,000* 24,000* 24,000* 24,000* 21,580 17,480 15,890 14,520 13,310 12,190 11,240 10,380 9,610 8,820 7,670 7,140 6,630 6,170 5,750 5,220* 4,690*	Gle (d Load Radius (ft) 60.0 65.0 70.0 75.0 80.0 95.0 100.0 110.0 120.0 125.0	78.9 77.3 75.7 73.9 70.6 68.9 66.1 65.3 63.5 61.7 59.7 57.8	14,920* 14,390* 13,910* 13,420* 13,000* 12,630* 12,270* 11,920* 11,610* 10,820 10,030 9,230 8,570 7,950	Fedius (ft) 50.0 65.0 65.0 70.0 75.0 80.0 85.0 99.0 99.0 110.0 125.0 135.0 140.0 155.0 160.0	79.6 75.1 70.5 69.0 67.5 65.8 52.0 50.0 48.1 43.9 41.6	Pated Load (lbs) 20,000* 20,000* 20,000* 20,000* 19,640 16,090 14,700 13,490 12,340 11,390 10,530 9,760 9,010 8,370 7,780 6,740 6,260 5,840 4,980* 4,450*	Gle (d Load Radius (ft) 65.0 70.0 75.0 85.0 95.0 100.0 110.0 1120.0 120.0 133.0 135.0	79.4 77.9 76.3 74.7 73.1 71.5 69.8 68.2 66.5 64.8 62.9 57.5 55.6	11,330* 10,930* 10,530* 10,200* 9,870* 9,590* 9,060* 8,810* 8,590* 8,200* 7,620 7,090	Fadius (ft) 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 105.0 115.0 1220.0 135.0 1445.0 155.0 166.0 165.0	79.1 76.3 74.9 70.5 69.0 67.4 65.9 61.2 59.6 58.0 56.3 51.0 49.2 47.3 45.2 45.1 41.0	Pated Load (lbs) 18,000* 18,000* 18,000* 18,000* 16,040* 15,160* 14,350* 13,620 12,450 11,500 10,640 9,850 9,100 8,460 7,874 0,6330 6,340 5,930 5,150* 4,670* 4,230*	70.0 Policy (ft) 70.0 Policy	79.9 78.3 76.8 75.3 73.8 69.1 67.5 66.7 64.1 62.4 60.7 55.1	9,060* 8,700* 8,420* 8,130* 7,620* 7,400* 7,200* 6,650* 6,500* 6,500* 6,210* 6,080* 5,970*

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

Capacities based on factors other than machine stability such as structural competence are shown by asterisk * in the charts.

Fixed Jib Lift Capacity

Full Counterweight: 69,000 lbs Carbody Weight: 31,800

)' Boo 30 f	t Jib					40 f	t J ib					501	ft J ib					60 t	t Jib		
	() set An		eg.)			() set An		eg.)			() set Ar		eg.)			() set An		eg.)	
	10			30			10			30			10			30			10			30	
Load adius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rate Loa (lbs
45.0	79.2	24,000*				50.0	79.0	24,000*				55.0	78.7	20,000*				55.0	79.6	18,000*			
50.0 55.0	77.7 76.1	24,000 * 24,000*	55.0	78.8	21,000*	55.0 60.0	77.5 76.0	24,000 * 24,000*	60.0	79.5	15,120*	60.0 65.0	77.3 75.9	20,000 * 20,000*	65.0	80.0	11,440*	60.0 65.0	78.3 76.9	18,000 * 18,000*			
60.0	74.5	23,720	60.0	77.2	21,000*	65.0	74.6	21,470	65.0	78.0	14,590*	70.0	74.5	19,530	70.0	78.5	11,060*	70.0	75.6	17,650*	70.0	80.4	9,14
65.0	73.0	21,180	65.0	75.6	20,500*	70.0	73.1	19,310	70.0	76.4	14,100*	75.0	72.9	17,570	75.0	77.0	10,670*	75.0	74.1	16,570*	75.0	78.9	8,81
70.0 75.0	71.4 69.7	19,040 17,100	70.0 75.0	74.0 72.3	19,730 17,720	75.0 80.0	71.5 70.0	17,370 15,780	75.0 80.0	74.8 73.2	13,640 * 13,220*	80.0 85.0	71.5 70.1	15,980 14,590	80.0 85.0	75.5 74.0	10,330 * 10,030*	80.0 85.0	72.8 71.4	15,670 * 14,700	80.0 85.0	77.5 76.1	8,53 8,24
80.0	68.1	15,540	80.0	70.7	16,090	85.0	68.4	14,410	85.0	71.7	12,850*	90.0	68.6	13,350	90.0	72.5	9,740*	90.0	70.0	13,490	90.0	74.6	8,00
85.0 90.0	66.5 64.8	14,190 12,980	85.0 90.0	69.0 67.3	14,680	90.0 95.0	66.9 65.2	13,200 12,050	90.0 95.0	70.1 68.4	12,500*	95.0 100.0	67.0 65.5	12,210	95.0 100.0	70.9 69.3	9,450*	95.0 100.0	68.5 67.1	12,340 11,370	95.0 100.0	73.1 71.6	7,76 7,5 3
95.0	63.0	11,860	95.0	65.5	13,440 12,270	100.0	63.6	11,110	100.0	66.7	12,140 * 11,640	105.0	64.0	11,260 10,400	105.0	67.8	9,210* 8,970*	105.0	65.7	10,490	105.0	70.2	7,31
00.0	61.3	10,910	100.0	63.8	11,280	105.0	62.0	10,250	105.0	65.1	10,730	110.0	62.5	9,610	110.0	66.2	8,770*	110.0	64.2	9,720	110.0	68.7	7,14
105.0 110.0	59.6 57.9	10,070 9,300	105.0 110.0	62.0 60.2	10,400 9,610	110.0 115.0	60.4 58.6	9,470 8,730	110.0 115.0	63.4 61.5	9,920 9,120	115.0 120.0	60.8 59.2	8,860 8,220	115.0 120.0	64.5 62.8	8,550* 8,350 *	115.0 120.0	62.7 61.2	8,970 8,310	115.0 120.0	67.0 65.5	6,94 6,7 9
115.0	55.9	8,550	115.0	58.2	8,840	120.0	56.9	8,090	120.0	59.8	8,460	125.0	57.6	7,620	125.0	61.1	8,090	125.0	59.7	7,730	125.0	63.9	6,61
120.0	54.1	7,930	120.0	56.3	8,200	125.0	55.1	7,510	125.0	58.0	7,840	130.0	55.9	7,090	130.0	59.4	7,510	130.0	58.1	7,180	130.0	62.3	6,48
125.0 1 30.0	52.2 50.2	7,360 6,830	125.0 130.0	54.4 52.4	7,580 7,030	130.0 135.0	53.3 51.5	6,960 6,480	130.0 135.0	56.1 54.2	7,270 6,760	135.0 140.0	54.2 52.4	6,590 6,100	135.0 140.0	57.6 55.7	6,980 6,450	135.0 140.0	56.5 54.8	6,670 6,190	135.0 140.0	60.7 58.9	6,34 6,2 1
35.0	48.2	6,320	100.0	02	1,000	140.0	49.5	5,990	140.0	52.1	6,260	145.0	50.6	5,680	145.0	53.8	5,990	145.0	53.2	5,770	145.0	57.1	6,08
140.0	46.0	5,860				145.0	47.5	5,570				150.0	48.7	5,290	150.0	51.9	5,570	150.0	51.5	5,370	150.0	55.4	5,7
145.0 1 50.0	43.9 41.6	5,310* 4,760 *				150.0 155.0	45.5 43.4	5,090* 4,580 *				155.0 160.0	46.8 44.7	4,800* 4,320 *				155.0 160.0	49.7 47.8	4,960* 4,490 *	155.0 160.0	53.5 51.5	5,35 4,9 (
155.0	39.2	4,230*				160.0	41.1	4,050*				165.0	42.7	3,880*				165.0	46.0	4,050*			,,,,,
160.0 165.0	36.6 33.9	3,680 * 3,170*				165.0 170.0	38.7 36.3	3,590* 3,100*				170.0 175.0	40.6 38.3	3,430 * 3,020*				170.0 175.0	44.1 42.1	3,650 * 3,240*			
	ves	3,170 1	Poo	ves	1	Ree		3,100 1	Ree	voe	1	Ree		1	Poo	ves	1		ves	1	Poo	ves	1
100)' Boo				1400	100	•	1.00	100	•	100	100	<u> </u>	1.00	100		100	100	<u> </u>	1.00	100	
	170	, DUU																					
		20 f				l		40 f	t lib					501	ft lib					60 f	ft lih		
	(t J ib	eq.)			(t J ib	eq.)			(ft Ji b ngle (d	eq.)			(ft Jib ngle (d	eg.)	
	10	O set An	t J ib	eg.) 30			10	O set An		eg.) 30			10	o set Ar		eg.) 30			10	O set An		eg.) 30	
		O set An	t J ib	30 Boom	Rated Load (lbs)	Load Radius (ft)		O set An		· /	Rated Load (lbs)	Load Radius (ft)		o set Ar			Rated Load (lbs)	Load Padius (ft)		O set An		30 Boom	Pate Loa (lbs
Adius (ft) 45.0	Boom Angle (deg.) 79.8	Rated Load (lbs) 24,000*	t Jib gle (d Load Radius	30 Boom Angle	Rated Load	Radius (ft) 50.0	Boom Angle (deg.) 79.6	Rated Load (lbs) 24,000*	gle (de Load Radius	30 Boom Angle	Rated Load	Radius (ft) 55.0	Boom Angle (deg.) 79.2	Rated Load (lbs) 20,000*	Load Radius	30 Boom Angle	Load	Radius (ft) 55.0	Boom Angle (deg.) 80.0	Rated Load (lbs) 18,000*	ngle (d Load Radius	30 Boom Angle	Rate Loa
45.0 50.0	10 Boom Angle (deg.) 79.8 78.3	Rated Load (lbs) 24,000*	gle (d Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Fadius (ft) 50.0 55.0	10 Boom Angle (deg.) 79.6 78.1	Rated Load (lbs) 24,000*	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Radius (ft) 55.0 60.0	10 Boom Angle (deg.) 79.2 77.9	Rated Load (lbs) 20,000*	Load Radius	30 Boom Angle	Load	### Radius (ft) 55.0 60.0	80.0 78.8	Rated Load (lbs) 18,000* 18,000*	ngle (d Load Radius	30 Boom Angle	Rate Loa
adius (ft) 45.0	Boom Angle (deg.) 79.8	Rated Load (lbs) 24,000*	t Jib gle (d Load Radius	30 Boom Angle	Rated Load	Radius (ft) 50.0	Boom Angle (deg.) 79.6	Rated Load (lbs) 24,000*	gle (de Load Radius	30 Boom Angle	Rated Load	Radius (ft) 55.0	Boom Angle (deg.) 79.2	Rated Load (lbs) 20,000*	Load Radius	30 Boom Angle	Load	Radius (ft) 55.0	Boom Angle (deg.) 80.0	Rated Load (lbs) 18,000*	ngle (d Load Radius	30 Boom Angle	Rate Loa
45.0 50.0 55.0 60.0 65.0	79.8 78.3 76.8 75.3 73.8	Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 20,940	Load Radius (ft) 55.0 60.0 65.0	30 Boom Angle (deg.) 79.4 77.9 76.4	Pated Load (lbs) 21,000* 21,000* 20,830*	50.0 55.0 60.0 65.0 70.0	Boom Angle (deg.) 79.6 78.1 76.7 75.3 73.9	Rated Load (lbs) 24,000* 24,000* 23,800 21,250 19,090	Load Padius (ft) 60.0 65.0 70.0	30 Boom Angle (deg.) 80.0 78.6 77.1	Rated Load (lbs) 15,290* 14,770* 14,300*	55.0 60.0 65.0 70.0 75.0	### To Provide the Control of the Co	Rated Load (lbs) 20,000* 20,000* 20,000* 19,310 17,350	Load Radius (ft) 70.0	30 Boom Angle (deg.) 79.1 77.6	Load (lbs) 11,170* 10,800*	55.0 60.0 65.0 70.0 75.0	Boom Angle (deg.) 80.0 78.8 77.5 76.2 74.9	Rated Load (lbs) 18,000* 18,000* 18,000* 18,000* 17,080*	Load Radius (ft)	30 Boom Angle (deg.)	Rate Loa (lbs
45.0 50.0 55.0 60.0 65.0 70.0	79.8 76.8 75.3	Rated Load (lbs) 24,000* 24,000* 24,000* 23,500	Load Padius (ft) 55.0 60.0	Boom Angle (deg.) 79.4 77.9	Rated Load (lbs) 21,000* 21,000*	50.0 55.0 60.0 65.0	79.6 76.7 75.3	Rated Load (lbs) 24,000* 24,000* 23,800 21,250	Load Padius (ft)	30 Boom Angle (deg.) 80.0 78.6	Rated Load (lbs) 15,290* 14,770*	Fadius (ft) 55.0 60.0 65.0 70.0	79.2 77.9 75.2	Rated Load (lbs) 20,000* 20,000* 20,000* 19,310	Load Radius (ft)	30 Boom Angle (deg.)	Load (lbs) 11,170* 10,800* 10,490*	Fadius (ft) 55.0 60.0 65.0 70.0	80.0 78.8 77.5 76.2	Rated Load (lbs) 18,000* 18,000* 18,000* 18,000*	Load Radius (ft)	30 Boom Angle (deg.)	Rate Loa (lbs
45.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0	79.8 78.3 76.8 75.3 73.8 72.4 70.8 69.3	Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 20,940 18,820 16,880 15,320	Load Radius (ft) 55.0 60.0 65.0 70.0 80.0	30 Boom Angle (deg.) 79.4 77.9 76.4 74.9 73.2 71.7	21,000* 21,000* 21,000* 20,830* 19,530 17,520 15,890	Fadius (ft) 50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0	79.6 78.1 76.7 75.3 73.9 72.4 71.0 69.5	Rated Load (lbs) 24,000* 24,000* 23,800 21,250 19,090 17,150 15,560 14,170	Load Radius (ft) 60.0 65.0 70.0 75.0 80.0 85.0	30 Boom Angle (deg.) 80.0 78.6 77.1 75.6 74.1 72.6	15,290* 14,770* 14,300* 13,840* 13,420* 13,050*	Radius (ft) 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	79.2 77.9 76.5 75.2 73.8 72.4 71.0 69.6	Rated Load (lbs) 20,000* 20,000* 20,000* 19,310 17,350 15,760 14,370 13,130	Load Radius (ft) 70.0 75.0 80.0 85.0 90.0	30 Boom Angle (deg.) 79.1 77.6 76.2 74.8 73.4	11,170* 10,800* 10,490* 10,180* 9,890*	Fadius (ft) 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	70.80 Boom Angle (deg.) 80.0 78.8 77.5 76.2 74.9 73.6 72.3 71.0	Rated Load (lbs) 18,000* 18,000* 18,000* 17,080* 15,890 14,500 13,270	Load Radius (ft) 75.0 80.0 85.0 90.0	79.4 78.1 75.4	8,90 8,35 8,11
45.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0	79.8 78.3 76.8 75.3 73.8 72.4 70.8 69.3 67.7	Rated Load (lbs) 24,000* 24,000* 24,000* 20,940 18,820 16,880 15,320 13,950	Load Radius (ft) 55.0 60.0 65.0 70.0 75.0 80.0	30 Boom Angle (deg.) 79.4 77.9 76.4 74.9 73.2 71.7 70.1	21,000* 21,000* 21,000* 20,830* 19,530 17,520 15,890 14,480	50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	79.6 78.1 76.7 75.3 73.9 72.4 71.0 69.5 68.1	Rated Load (lbs) 24,000* 24,000* 23,800 21,250 19,090 17,150 15,560 14,170 12,960	Load Fadius (ft) 60.0 65.0 70.0 75.0 80.0 85.0 90.0	30 Boom Angle (deg.) 80.0 78.6 77.1 75.6 74.1 72.6 71.1	7.5,290* 14,770* 14,300* 13,840* 13,420* 13,050* 12,690*	75.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0	79.2 77.9 76.5 75.2 73.8 72.4 71.0 69.6 68.2	Rated Load (lbs) 20,000* 20,000* 20,000* 19,310 17,350 15,760 14,370 13,130 11,990	Coad Radius (ft) 70.0 75.0 80.0 85.0 90.0 95.0	30 Boom Angle (deg.) 79.1 77.6 76.2 74.8 73.4 71.9	11,170* 10,800* 10,490* 10,180* 9,890* 9,610*	75.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	80.0 78.8 77.5 76.2 74.9 73.6 72.3 71.0 69.5	Rated Load (lbs) 18,000* 18,000* 18,000* 17,080* 17,080* 14,500 13,270 12,100	75.0 80.0 85.0 95.0	79.4 78.1 76.7 75.4 73.9	8,90 8,61 8,35 8,11 7,87
45.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0	79.8 78.3 76.8 75.3 73.8 72.4 70.8 69.3	Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 20,940 18,820 16,880 15,320	Load Radius (ft) 55.0 60.0 65.0 70.0 80.0	30 Boom Angle (deg.) 79.4 77.9 76.4 74.9 73.2 71.7	21,000* 21,000* 21,000* 20,830* 19,530 17,520 15,890	Fadius (ft) 50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0	79.6 78.1 76.7 75.3 73.9 72.4 71.0 69.5	Rated Load (lbs) 24,000* 24,000* 23,800 21,250 19,090 17,150 15,560 14,170	Load Radius (ft) 60.0 65.0 70.0 75.0 80.0 85.0	30 Boom Angle (deg.) 80.0 78.6 77.1 75.6 74.1 72.6	15,290* 14,770* 14,300* 13,840* 13,420* 13,050*	Radius (ft) 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	79.2 77.9 76.5 75.2 73.8 72.4 71.0 69.6	Rated Load (lbs) 20,000* 20,000* 20,000* 19,310 17,350 15,760 14,370 13,130	Load Radius (ft) 70.0 75.0 80.0 85.0 90.0	30 Boom Angle (deg.) 79.1 77.6 76.2 74.8 73.4	11,170* 10,800* 10,490* 10,180* 9,890*	Fadius (ft) 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	70.80 Boom Angle (deg.) 80.0 78.8 77.5 76.2 74.9 73.6 72.3 71.0	Rated Load (lbs) 18,000* 18,000* 18,000* 17,080* 15,890 14,500 13,270	Load Radius (ft) 75.0 80.0 85.0 90.0	79.4 78.1 75.4	8,90 8,61 8,35 8,11 7,87
45.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0 90.0 95.0 100.0	79.8 78.3 76.8 75.3 73.8 72.4 70.8 69.3 67.7 66.2 64.5 62.9	Rated Load (/bs) 24,000* 24,000* 24,000* 24,000* 23,500 20,940 16,820 15,320 13,950 12,740 11,610 10,670	55.0 60.0 65.0 75.0 85.0 90.0 95.0	79.4 77.9 76.4 74.9 73.2 71.7 70.1 68.6 66.9 65.2	21,000* 21,000* 21,000* 20,830* 19,530 17,520 15,890 14,480 13,240 12,050 11,080	75.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 105.0	79.6 78.1 76.7 75.3 73.9 72.4 71.0 69.5 68.1 66.5 65.0 63.5	Pated Load (lbs) 24,000* 24,000* 23,800 21,250 19,090 17,150 15,560 14,170 10,860 10,000	60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 105.0	300 Boom Angle (deg.) 80.0 78.6 77.1 75.6 74.1 72.6 71.1 69.5 68.0 66.4	78ted Load (lbs) 15,290* 14,770* 14,300* 13,840* 13,420* 12,690* 12,360* 11,440 10,530	75.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 110.0	79.2 77.9 76.5 75.2 73.8 72.4 71.0 69.6 68.2 66.7 65.3 63.9	Rated Load (lbs) 20,000* 20,000* 20,000* 17,350 15,760 14,370 13,130 11,990 11,020 10,160 9,390	70.0 75.0 80.0 95.0 100.0 110.0	79.1 77.6 76.2 74.8 73.4 71.9 70.4 68.9 67.4	11,170* 10,800* 10,490* 10,180* 9,610* 9,360* 9,120* 8,900*	75.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 110.0	70.0 Boom Angle (deg.) 80.0 78.8 77.5 76.2 74.9 73.6 72.3 71.0 69.5 68.2 66.8 65.5	Rated Load (lbs) 18,000* 18,000* 18,000* 18,000* 17,080* 15,890 14,500 13,270 11,150 10,270 9,470	75.0 80.0 85.0 90.0 100.0 110.0	79.4 78.1 76.7 75.4 73.9 72.5 71.1 69.7	8,90 8,61 8,35 8,11 7,87 7,64 7,45
45.0 50.0 55.0 60.0 65.0 70.0 85.0 80.0 85.0 90.0 95.0 100.0	79.8 78.3 76.8 75.3 73.8 72.4 70.8 69.3 67.7 66.2 64.5 62.9 61.3	Rated Load (lbs) 24,000* 24,000* 24,000* 23,500 20,940 18,820 16,880 15,320 12,740 11,610 10,670 9,810	### Tools	79.4 77.9 76.4 74.9 73.2 71.7 70.1 68.6 66.9 65.2 63.6	Pated Load (/bs) 21,000* 21,000* 21,000* 20,830* 19,530 17,520 15,890 14,480 13,240 12,050 11,080 10,200	75.0 60.0 65.0 70.0 75.0 80.0 90.0 95.0 100.0 110.0	79.6 78.1 76.7 75.3 73.9 72.4 71.0 69.5 68.1 66.5 65.0 63.5 61.9	Pated Load (lbs) 24,000* 24,000* 23,800 21,250 19,090 17,150 15,560 14,170 12,960 11,810 10,000 9,230	60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 110.0	30 Boom Angle (deg.) 80.0 78.6 77.1 75.6 74.1 72.6 71.1 69.5 68.0 66.4 64.8	78.20* 15,290* 14,770* 14,300* 13,840* 13,420* 12,690* 12,360* 11,440 10,530 9,720	75.0 60.0 65.0 70.0 75.0 85.0 90.0 95.0 105.0 115.0	79.2 77.9 76.5 75.2 73.8 72.4 71.0 69.6 68.2 66.7 65.3 63.9 62.3	Rated Load (lbs) 20,000* 20,000* 20,000* 19,310 17,350 15,760 14,370 13,130 11,990 11,020 10,160 9,390 8,610	70.0 75.0 80.0 95.0 100.0 115.0 115.0	79.1 77.6 76.2 74.8 73.4 71.9 70.4 68.9 67.4 65.8	11,170* 10,800* 10,490* 10,180* 9,890* 9,610* 9,360* 9,120* 8,900* 8,680*	75.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 115.0	70.0 Boom Angle (deg.) 80.0 78.8 77.5 76.2 74.9 73.6 72.3 71.0 69.5 68.2 66.8 65.5 64.0	Rated Load (lbs) 18,000* 18,000* 18,000* 18,000* 17,080* 15,890 14,500 13,270 12,100 11,150 10,270 9,470 8,730	75.0 80.0 85.0 90.0 100.0 115.0	79.4 78.1 76.7 75.4 73.9 72.5 71.1 69.7 68.2	8,90 8,61 8,35 8,11 7,87 7,64 7,45 7,05
45.0 45.0 60.0 65.0 70.0 85.0 99.0 95.0 100.0 10	79.8 78.3 76.8 75.3 73.8 72.4 70.8 69.3 67.7 66.2 64.5 62.9 61.3 59.7	Rated Load (/bs) 24,000* 24,000* 24,000* 24,000* 23,500 20,940 16,820 15,320 13,950 12,740 11,610 10,670	55.0 60.0 65.0 75.0 85.0 90.0 95.0	79.4 77.9 76.4 74.9 73.2 71.7 70.1 68.6 66.9 65.2	21,000* 21,000* 21,000* 20,830* 19,530 17,520 15,890 14,480 13,240 12,050 11,080	75.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 105.0	79.6 78.1 76.7 75.3 73.9 72.4 71.0 69.5 68.1 66.5 65.0 63.5	Pated Load (lbs) 24,000* 24,000* 23,800 21,250 19,090 17,150 15,560 14,170 10,860 10,000	60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 105.0	300 Boom Angle (deg.) 80.0 78.6 77.1 75.6 74.1 72.6 71.1 69.5 68.0 66.4	78ted Load (lbs) 15,290* 14,770* 14,300* 13,840* 13,420* 12,690* 12,360* 11,440 10,530	75.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 110.0	79.2 77.9 76.5 75.2 73.8 72.4 71.0 69.6 68.2 66.7 65.3 63.9	Rated Load (lbs) 20,000* 20,000* 20,000* 17,350 15,760 14,370 13,130 11,990 11,020 10,160 9,390	70.0 75.0 80.0 95.0 100.0 110.0	79.1 77.6 76.2 74.8 73.4 71.9 70.4 68.9 67.4	11,170* 10,800* 10,490* 10,180* 9,610* 9,360* 9,120* 8,900*	75.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 110.0	70.0 Boom Angle (deg.) 80.0 78.8 77.5 76.2 74.9 73.6 72.3 71.0 69.5 68.2 66.8 65.5	Rated Load (lbs) 18,000* 18,000* 18,000* 18,000* 17,080* 15,890 14,500 13,270 11,150 10,270 9,470	75.0 80.0 85.0 90.0 100.0 110.0	79.4 78.1 76.7 75.4 73.9 72.5 71.1 69.7 68.2	8,90 8,66 8,63 8,11 7,83 7,64 7,45 7,05 6,90
45.0 45.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 90.0 10.0 11.0 120.0	79.8 76.8 75.3 73.8 72.4 66.2 64.5 62.9 61.3 59.7 57.9 56.2	Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 23,500 16,880 15,320 13,950 12,740 11,610 10,670 9,810 9,060 8,310 7,670	Load Radius (ft) 55.0 60.0 65.0 70.0 85.0 95.0 100.0 115.0 120.0	79.4 77.9 76.4 74.9 73.2 71.7 70.1 68.6 66.9 65.2 63.6 61.9 60.1 58.3	Pated Load (lbs) 21,000* 21,000* 21,000* 20,830* 19,530 17,520 15,890 14,480 13,240 12,050 11,080 10,200 9,390 8,610 7,980	75.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 110.0 115.0 120.0 125.0	79.6 75.3 73.9 72.4 71.0 69.5 68.1 66.5 61.9 60.3 58.7 57.0	Pated Load (lbs) 24,000* 24,000* 24,000* 23,800 21,250 19,090 17,150 15,560 14,170 12,960 11,810 10,800 10,000 9,230 8,480 7,840 7,270	Load Radius (ft)	300 Boom Angle (deg.) 80.0 78.6 77.1 75.6 74.1 72.6 68.0 66.4 64.8 63.1 61.5 59.8	Rated Load (lbs) 15,290* 14,770* 14,300* 13,840* 13,050* 12,690* 12,360* 11,440 10,530 9,720 8,920 8,240 7,640	75.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 115.0 120.0 125.0	79.2 77.9 76.5 75.2 73.8 72.4 76.6 68.2 66.7 65.3 63.9 62.3 60.8 59.3 57.7	Pated Load (lbs) 20,000* 20,000* 20,000* 19,310 17,350 15,760 14,370 11,990 11,020 10,160 9,390 8,610 7,980 7,400 6,850	70.0 75.0 80.0 85.0 90.0 105.0 125.0 125.0 130.0 130.0	79.1 77.6 76.2 73.4 71.9 70.4 68.9 67.4 65.8 64.3 62.7 61.1	11,170* 10,800* 10,490* 10,180* 9,890* 9,610* 9,360* 9,120* 8,900* 8,680* 8,500 7,890 7,310	Radius (ft) 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 115.0 120.0 125.0 130.0	70.0 Boom Angle (deg.) 80.0 78.8 77.5 76.2 74.9 73.6 69.5 68.2 66.8 65.5 64.0 62.6 61.1 59.7	Rated Load (lbs) 18,000* 18,000* 18,000* 17,080* 15,890 14,500 13,270 12,100 11,150 10,270 9,470 8,730 8,090 7,490 6,940	75.0 80.0 85.0 90.0 105.0 115.0 125.0 130.0 130.0	79.4 78.1 76.7 75.4 73.9 72.5 71.1 69.7 68.2 66.7 65.2 63.7	8,90 8,96 8,66 8,35 7,66 7,45 7,05 6,90 6,74 6,55
45.0 50.0 55.0 60.0 65.0 70.0 80.0 95.0 10.0 15.0 120.0 25.0 25.0	79.8 76.8 75.3 73.8 72.4 70.9 66.2 64.5 62.9 55.4 4	Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 18,820 16,880 15,320 11,610 10,670 9,810 7,670 7,090	t Jib gle (d Radius (tt) Load Radius (tt) 55.0 66.0 75.0 88.0 95.0 100.0 115.0 115.0 125.0 125.0	79.4 77.9 76.4 74.9 76.1 66.6 66.9 65.2 63.6 61.9 60.1 58.3 56.5	Pated Load (lbs) 21,000* 21,000* 20,830* 19,530 17,520 14,480 13,240 12,050 11,080 10,200 9,390 8,610 7,980 7,360	75.0 60.0 65.0 70.0 75.0 80.0 90.0 95.0 100.0 110.0 115.0 120.0 130.0	79.6 78.1 76.7 75.3 73.9 72.4 71.0 69.5 66.5 66.5 63.5 61.9 60.3 58.7 57.0 55.4	Rated Load (lbs) 24,000* 24,000* 24,000* 23,800 21,250 19,990 17,150 15,560 14,170 10,860 10,000 9,230 8,480 7,840 7,270 6,720	Gle (d. Radius (ft) (ft) (60.0 65.0 70.0 75.0 80.0 95.0 100.0 115.0 120.0 125.0 130.0 130.0	300 Boom Angle (deg.) 80.0 78.6 77.1 75.6 74.1 69.5 68.0 66.4 64.8 63.1 61.5 59.8 58.1	7,070 Rated Load (/lbs) 15,290* 14,770* 14,300* 13,420* 13,420* 12,690* 12,360* 11,440 10,530 9,720 8,920 8,240 7,070	Radius (ft) 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 100.0 115.0 120.0 130.0 135.0	79.2 77.9 76.5 75.2 73.8 72.4 76.6 68.2 66.7 65.3 60.8 59.3 57.7 56.1	Rated Load (lbs) 20,000* 20,000* 20,000* 19,310 17,350 15,760 14,370 11,1990 11,020 10,160 9,390 8,610 7,980 7,400 6,850 6,340	70.0 75.0 80.0 85.0 90.0 105.0 115.0 125.0 135.0 135.0 135.0	79.1 77.6 76.2 74.8 71.9 70.4 65.8 64.3 62.7 61.1 59.5	11,170* 10,800* 10,490* 10,180* 9,890* 9,610* 9,360* 9,120* 8,900* 8,680* 8,500 7,890 7,310 6,760	75.0 60.0 65.0 70.0 75.0 80.0 90.0 95.0 105.0 115.0 125.0 135.0	70.0 Boom Angle (deg.) 80.0 78.8 77.5 76.2 74.9 69.5 68.2 65.5 64.0 62.6 61.1 59.7 58.2	Rated Load (lbs) 18,000* 18,000* 18,000* 18,000* 17,080* 15,890 14,500 11,150 10,270 9,470 8,730 8,090 6,940 6,450	75.0 80.0 85.0 90.0 105.0 115.0 125.0 135.0 135.0 135.0	79.4 78.1 76.7 75.4 73.9 72.5 71.1 69.7 68.2 66.7 65.2 63.7 62.2	8,90 8,90 8,66 8,33 8,11 7,85 7,66 7,45 6,90 6,74 6,55 6,45
45.0 (ft) 45.0 (50.0 (50.0 (60	79.8 75.3 76.8 75.3 73.8 72.4 70.8 69.3 67.7 66.2 64.5 62.9 61.3 59.7 55.7 55.7 56.2 54.4 52.6 50.8	Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 23,500 20,940 16,882 15,320 11,610 10,670 9,810 9,060 8,310 7,670 7,090 6,560 6,080	Load Radius (ft) 55.0 60.0 65.0 70.0 85.0 95.0 100.0 115.0 120.0	79.4 77.9 76.4 74.9 73.2 71.7 70.1 68.6 66.9 65.2 66.9 60.1 58.3 56.5 54.7	Pated Load (lbs) 21,000* 21,000* 21,000* 20,830* 19,530 17,520 15,890 14,480 13,240 12,050 11,080 10,200 9,390 8,610 7,980	Fedius (ft) 50.0 55.0 60.0 65.0 770.0 80.0 85.0 90.0 100.0 115.0 125.0 130.0 135.0 140.0	79.6 (deg.) 79.6 78.1 76.7 75.3 73.9 72.4 71.0 69.5 68.1 66.5 61.9 60.3 55.4 53.7 51.8	Pated Load (lbs) 24,000* 24,000* 24,000* 23,800 21,250 19,090 17,150 15,560 14,170 10,860 10,000 9,230 8,480 7,270 6,720 6,230 5,750	Gle (d. Radius (ft) (t) (a) (b) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	300 Boom Angle (deg.) 80.0 78.6 77.1 75.6 74.1 72.6 74.1 72.6 68.0 66.4 64.8 63.1 559.8 58.1 56.3 54.4	7,000 15,290* 14,770* 14,300* 13,840* 13,420* 13,050* 12,690* 12,360* 11,440 10,530 9,720 8,920 8,240 7,640 7,070 6,540 6,040	Radius (ft) 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 105.0 115.0 125.0 135.0 140.0 145.0	79.2 77.9 76.5 75.2 73.8 72.4 71.0 69.6 68.2 66.7 65.3 63.9 60.8 57.7 56.1 54.4 52.8	Rated Load (lbs) 20,000* 20,000* 20,000* 17,350 15,760 14,370 13,130 11,990 10,160 9,390 8,610 7,980 6,850 6,340 5,860 5,440	70.0 75.0 80.0 85.0 99.0 105.0 115.0 125.0 130.0 145.0 145.0	79.1 77.6 76.2 74.8 71.9 70.4 68.9 67.4 65.8 64.3 62.7 55.7 56.0	11,170* 10,800* 10,490* 10,180* 9,890* 9,610* 9,120* 8,900* 8,680* 8,500 7,310 6,760 6,760 6,260 5,790	Fadius (ft) 55.0 60.0 65.0 70.0 80.0 85.0 90.0 100.0 115.0 120.0 135.0 140.0 145.0	70.0 Poom Angle (deg.) 80.0 78.8 77.5 76.2 74.9 73.6 72.3 71.0 69.5 68.2 66.8 65.5 64.0 62.6 61.1 59.7 58.2 56.6 55.1	Rated Load (lbs) 18,000* 18,000* 18,000* 18,000* 17,080* 15,890 14,500 13,270 12,100 11,150 10,270 9,470 8,730 8,090 7,490 6,940 6,450 5,950 5,530	75.0 80.0 85.0 90.0 105.0 115.0 125.0 130.0 145.0 145.0	79.4 78.1 76.7 75.4 73.9 72.5 71.1 69.7 68.2 66.7 65.2 60.5 58.9	8,90 8,66 8,63 8,17 7,64 7,45 7,05 6,90 6,74 6,53 6,44 6,30 5,9
45.0 50.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 10.0 15.0 120.0 25.0 35.0 40.0	79.8 79.8 76.8 75.3 73.8 72.4 70.8 69.3 66.2 64.5 62.9 61.3 59.7 57.9 56.2 64.4 52.6 50.8 48.8	Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 20,940 11,6880 15,320 11,950 12,740 11,610 9,810 9,060 8,310 7,670 7,090 6,560 6,080 5,590	t Jib ggle (d Radius (ft) Load Radius (ft) 55.0 60.0 65.0 70.0 75.0 95.0 100.0 110.0 115.0 125.0 130.0	79.4 77.9 76.4 74.9 73.2 71.7 70.1 68.6 66.9 65.2 66.9 60.1 58.3 56.5 54.7	Pated Load (lbs) 21,000* 21,000* 20,830* 19,530 17,520 15,890 14,480 13,240 12,050 11,080 10,200 9,390 8,610 7,980 7,360 6,810	Fedius (ft) 50.0 55.0 66.0 65.0 70.0 75.0 80.0 85.0 99.0 100.0 115.0 120.0 125.0 133.0 140.0 145.0	70 Boom Angle (deg.) 78.1 76.7 75.3 73.9 72.4 71.0 69.5 66.5 66.5 65.0 63.5 57.0 55.4 55.4 50.1	Pated Load (lbs) 24,000* 24,000* 24,250 19,090 17,150 15,560 14,170 12,960 11,810 10,860 9,230 8,480 7,840 7,270 6,720 6,230 5,750 5,290*	Gle (de Radius (ft)) 60.0 65.0 70.0 75.0 80.0 95.0 100.0 110.0 125.0 130.0 135.0 135.0	300 Boom Angle (deg.) 80.0 78.6 77.1 75.6 74.1 72.6 71.1 69.5 68.0 66.4 64.8 63.1 559.8 58.1 56.3	7,070 6,540	Fadius (ft) 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 115.0 120.0 135.0 140.0 145.0 150.0 150.0	79.2 77.9 76.5 75.2 73.8 72.4 71.0 69.6 68.2 66.7 65.3 63.9 62.3 60.8 59.3 57.7 56.1 54.4 52.8 51.1	Rated Load (lbs) 20,000* 20,000* 20,000* 19,310 17,350 13,130 11,990 11,020 10,160 9,390 8,610 7,980 7,400 6,850 6,340 5,860 5,440 4,960*	70.0 75.0 88.0 99.0 95.0 105.0 125.0 125.0 135.0 140.0 145.0 150.0	79.1 77.6 76.2 74.8 73.4 70.4 68.9 67.4 65.8 64.3 62.7 557.7 56.0 54.2	11,170* 10,800* 10,490* 10,180* 9,610* 9,610* 8,900* 8,680* 8,500 7,310 6,760 6,260 5,790 5,370	Fadius (ft) 55.0 60.0 65.0 77.0 80.0 85.0 90.0 95.0 100.0 115.0 120.0 133.0 140.0 145.0 150.0	710 Boom Angle (deg.) 78.8 77.5 76.2 74.9 73.6 72.3 71.0 69.5 68.2 66.8 65.5 64.0 62.6 55.1 53.5	Rated Load (lbs) 18,000* 18,000* 18,000* 17,080* 15,890 13,270 12,100 11,150 10,270 9,470 9,470 9,470 6,450 6,950 5,550 5,570*	75.0 80.0 85.0 90.0 105.0 125.0 135.0 140.0 145.0 150.0	79.4 78.1 76.7 75.4 75.4 76.7 68.2 66.7 65.2 60.5 58.9 57.3	8,90 8,66 8,35 8,11 7,83 7,64 7,25 6,90 6,74 6,53 6,45 6,30 5,99 5,55
45.0 45.0 60.0 65.0 70.0 80.0 85.0 90.0 105.0 115.0 125.0 135.0 145.0 145.0	76.8 77.3 76.8 77.4 70.8 69.3 59.7 57.9 56.2 54.4 48.8 46.8	Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 23,500 20,940 16,882 15,320 11,610 10,670 9,810 9,060 8,310 7,670 7,090 6,560 6,080	t Jib ggle (d Radius (ft) Load Radius (ft) 55.0 60.0 65.0 70.0 75.0 95.0 100.0 110.0 115.0 125.0 130.0	79.4 77.9 76.4 74.9 73.2 71.7 70.1 68.6 66.9 65.2 66.9 60.1 58.3 56.5 54.7	Pated Load (lbs) 21,000* 21,000* 20,830* 19,530 17,520 15,890 14,480 13,240 12,050 11,080 10,200 9,390 8,610 7,980 7,360 6,810	Fedius (ft) 50.0 55.0 60.0 65.0 770.0 80.0 85.0 90.0 100.0 115.0 125.0 130.0 135.0 140.0	79.6 (deg.) 79.6 78.1 76.7 75.3 73.9 72.4 71.0 69.5 68.1 66.5 61.9 60.3 55.4 53.7 51.8	Pated Load (lbs) 24,000* 24,000* 24,000* 23,800 21,250 19,090 17,150 15,560 14,170 10,860 10,000 9,230 8,480 7,270 6,720 6,230 5,750	Gle (d. Radius (ft) (t) (a) (b) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	300 Boom Angle (deg.) 80.0 78.6 77.1 75.6 74.1 72.6 74.1 72.6 68.0 66.4 64.8 63.1 559.8 58.1 56.3 54.4	7,000 15,290* 14,770* 14,300* 13,840* 13,420* 13,050* 12,690* 12,360* 11,440 10,530 9,720 8,920 8,240 7,640 7,070 6,540 6,040	Radius (ft) 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 105.0 115.0 125.0 135.0 140.0 145.0	79.2 77.9 76.5 75.2 73.8 72.4 71.0 69.6 68.2 66.7 65.3 63.9 60.8 57.7 56.1 54.4 52.8	Rated Load (lbs) 20,000* 20,000* 20,000* 17,350 15,760 14,370 13,130 11,990 10,160 9,390 8,610 7,980 6,850 6,340 5,860 5,440	70.0 75.0 80.0 85.0 99.0 105.0 115.0 125.0 130.0 145.0 145.0	79.1 77.6 76.2 74.8 71.9 70.4 68.9 67.4 65.8 64.3 62.7 55.7 56.0	11,170* 10,800* 10,490* 10,180* 9,890* 9,610* 9,120* 8,900* 8,680* 8,500 7,310 6,760 6,760 6,260 5,790	Fadius (ft) 55.0 60.0 65.0 70.0 80.0 85.0 90.0 100.0 115.0 120.0 135.0 140.0 145.0	70.0 Poom Angle (deg.) 80.0 78.8 77.5 76.2 74.9 73.6 72.3 71.0 69.5 68.2 66.8 65.5 64.0 62.6 61.1 59.7 58.2 56.6 55.1	Rated Load (lbs) 18,000* 18,000* 18,000* 18,000* 17,080* 15,890 14,500 13,270 12,100 11,150 10,270 9,470 8,730 8,090 7,490 6,940 6,450 5,950 5,530	75.0 80.0 85.0 90.0 105.0 115.0 125.0 130.0 145.0 145.0	79.4 78.1 76.7 75.4 73.9 72.5 71.1 69.7 68.2 66.7 65.2 60.5 58.9	8,90 8,61 8,35 8,11 7,85 7,45 6,90 6,74 6,55 6,45 6,30 5,90 5,51
45.0 50.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 115.0 125.0 135.0 145.0 155.0	79.8 76.8 75.3 76.8 72.4 66.2 64.5 62.9 54.4 52.6 50.8 48.8 44.8 42.7	Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 18,820 16,880 15,320 11,610 10,670 9,810 9,060 6,560 6,560 6,560 6,560 6,560 5,590 5,040* 4,540* 4,030*	t Jib ggle (d Radius (ft) Load Radius (ft) 55.0 60.0 65.0 70.0 75.0 95.0 100.0 110.0 115.0 125.0 130.0	79.4 77.9 76.4 74.9 73.2 71.7 70.1 68.6 66.9 65.2 66.9 60.1 58.3 56.5 54.7	Pated Load (lbs) 21,000* 21,000* 20,830* 19,530 17,520 15,890 14,480 13,240 12,050 11,080 10,200 9,390 8,610 7,980 7,360 6,810	Fedius (ft) 50.0 65.0 65.0 65.0 70.0 75.0 80.0 95.0 100.0 110.0 120.0 125.0 135.0 140.0 155.0 160.0	79.6 75.3 73.9 72.4 66.5 65.0 63.5 61.9 55.4 53.7 51.8 8.2 46.3 44.2	Pated Load (lbs) 24,000* 24,000* 24,000* 23,800 21,250 19,090 17,150 15,560 14,170 12,960 11,810 10,860 10,000 9,230 8,480 7,270 6,720 6,230 5,750 5,290* 4,780* 4,320* 3,810*	Gle (d. Radius (ft) (t) (a) (b) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	300 Boom Angle (deg.) 80.0 78.6 77.1 75.6 74.1 72.6 74.1 72.6 68.0 66.4 64.8 63.1 559.8 58.1 56.3 54.4	7,000 15,290* 14,770* 14,300* 13,840* 13,420* 13,050* 12,690* 12,360* 11,440 10,530 9,720 8,920 8,240 7,640 7,070 6,540 6,040	Fedius (ft) 55.00 66.0 65.0 70.0 85.0 75.0 88.0 95.0 95.0 100.0 115.0 125.0 135.0 140.0 155.0 160.0 165.0	79.2 77.9 76.5 75.2 73.8 72.4 71.0 69.6 68.2 66.7 65.3 63.9 60.8 59.3 57.7 56.1 52.8 47.4 45.6	Pated Load (lbs) 20,000* 20,000* 20,000* 19,310 17,350 15,760 14,370 11,990 11,020 10,160 9,390 7,400 6,850 6,340 5,860 5,860 5,860 5,860 4,960* 4,960* 4,90* 4,030* 3,610*	70.0 75.0 88.0 99.0 95.0 105.0 125.0 125.0 135.0 140.0 145.0 150.0	79.1 77.6 76.2 74.8 73.4 70.4 68.9 67.4 65.8 64.3 62.7 557.7 56.0 54.2	11,170* 10,800* 10,490* 10,180* 9,610* 9,610* 8,900* 8,680* 8,500 7,310 6,760 6,260 5,790 5,370	Fedius (ft) 55.0.0 60.0 65.0 70.0 85.0 95.0 95.0 100.0 115.0 125.0 135.0 140.0 155.0 160.0 165.0	70.0 Room Room Room Room Room Room Room Roo	Rated Load (lbs) 18,000* 18,000* 18,000* 18,000* 17,080* 15,890 14,500 11,150 10,270 9,470 8,730 8,090 7,490 6,450 5,950 5,950 5,5070* 4,620* 4,160* 3,760*	75.0 80.0 85.0 90.0 95.0 100.0 125.0 125.0 125.0 125.0 155.0 155.0 155.0 155.0	79.4 78.1 76.7 75.4 73.9 72.5 71.1 69.7 66.2 66.7 62.2 60.5 55.6 53.8	Rate Loa
45.0 45.0 66.0 66.0 77.0 75.0 88.0 85.0 99.0 105.0 115.0 125.0 135.0 145.0 145.0 150.0	79.8 76.8 75.3 73.8 72.4 66.2 64.5 62.9 54.4 52.6 50.8 48.8 44.8 42.7 40.4	Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 23,500 16,880 15,320 13,950 12,740 11,610 10,670 9,810 9,960 8,310 7,670 7,090 6,560 6,080 5,590 5,040* 4,540*	t Jib ggle (d Radius (ft) Load Radius (ft) 55.0 60.0 65.0 70.0 75.0 95.0 100.0 110.0 115.0 125.0 130.0	79.4 77.9 76.4 74.9 73.2 71.7 70.1 68.6 66.9 65.2 66.9 60.1 58.3 56.5 54.7	Pated Load (lbs) 21,000* 21,000* 20,830* 19,530 17,520 15,890 14,480 13,240 12,050 11,080 10,200 9,390 8,610 7,980 7,360 6,810	Fedius (ft) 50.0 65.0 65.0 65.0 70.0 75.0 80.0 90.0 95.0 110.0 125.0 135.0 140.0 155.0	79.6 75.3 73.9 72.4 69.5 68.1 66.5 65.0 63.5 55.4 53.7 55.4 48.2 46.3	Pated Load (lbs) 24,000* 24,000* 24,000* 23,800 21,250 19,090 17,150 15,560 14,170 12,960 11,810 10,000 9,230 8,480 7,840 7,270 6,230 5,750 5,290* 4,780* 4,320*	Gle (d. Radius (ft) (t) (a) (b) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	300 Boom Angle (deg.) 80.0 78.6 77.1 75.6 74.1 72.6 74.1 72.6 68.0 66.4 64.8 63.1 559.8 58.1 56.3 54.4	7,000 15,290* 14,770* 14,300* 13,840* 13,420* 13,050* 12,690* 12,360* 11,440 10,530 9,720 8,920 8,240 7,640 7,070 6,540 6,040	Fadius (ft) 55.0 60.0 70.0 75.0 80.0 85.0 90.0 95.0 110.0 125.0 135.0 140.0 155.0 150.0 160.0	79.2 77.9 76.5 75.2 73.8 72.4 71.0 69.6 68.2 66.7 65.3 63.9 60.8 59.3 57.7 56.1 52.8 47.4 45.6	Pated Load (lbs) 20,000* 20,000* 20,000* 19,310 17,350 15,760 14,370 13,130 11,990 11,020 10,160 9,390 7,400 6,850 6,340 5,860 5,440 4,960* 4,490* 4,030*	70.0 75.0 88.0 99.0 95.0 105.0 125.0 125.0 135.0 140.0 145.0 150.0	79.1 77.6 76.2 74.8 73.4 70.4 68.9 67.4 65.8 64.3 62.7 557.7 56.0 54.2	11,170* 10,800* 10,490* 10,180* 9,610* 9,610* 8,900* 8,680* 8,500 7,310 6,760 6,260 5,790 5,370	Fadius (ft) 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 110.0 125.0 135.0 140.0 155.0 150.0 155.0 160.0	70 Boom Angle (deg.) 80.0 78.8 77.5 76.2 74.9 73.6 69.5 68.2 66.8 65.5 65.0 62.6 61.1 59.7 58.2 56.6 55.1 53.5 51.9 50.1	Rated Load (lbs) 18,000* 18,000* 18,000* 18,000* 17,080* 15,890 14,500 13,270 12,100 11,150 10,270 9,470 8,730 8,090 7,490 6,940 6,450 5,950 5,950 5,950 5,070* 4,620* 4,160*	75.0 80.0 85.0 90.0 95.0 100.0 125.0 125.0 135.0 145.0 155.0 160.0	79.4 78.1 76.7 75.4 73.9 72.5 71.1 69.7 66.2 66.7 62.2 60.5 55.6 53.8	8,90 8,60 8,61 8,35 8,11 7,86 7,22 7,25 6,90 6,74 6,59 6,48 6,30 5,91 5,51 4,67

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

Capacities based on factors other than machine stability such as structural competence are shown by asterisk * in the charts.

Fixed Jib Lift Capacity

ıll Counterweight: 69,000 lbs 🧪 🔾	Carbody Weight: 31,800
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	180)' Boo	m																				
			t J ib					40 t	t J ib					501	t J ib					601	ft J ib		
	(O set An	gle (d	eg.)			(O set Ar	gle (d	eg.)			(O set Ar	gle (d	eg.)			(Set Ar	igle (d	eg.)	
	10			30			10			30			10			30			10			30	
Load Radius	Boom Angle	Rated Load	Load Radius	Boom Angle	Rated Load	Load Radius	Boom Angle	Rated Load	Load Radius	Boom Angle	Rated Load	Load Radius	Boom Angle	Rated Load	Load Radius	Boom Angle	Rated Load	Load Radius	Boom Angle	Rated Load	Load Radius	Boom Angle	Rated Load
(ft)	(deg.)	(lbs)	(ft)	(deg.)	(lbs)	(ft)	(deg.)	(lbs)	(ft)	(deg.)	(lbs)	(ft)	(deg.)	(lbs)	(ft)	(deg.)	(lbs)	(ft)	(deg.)	(lbs)	(ft)	(deg.)	(lbs)
50.0 55.0	78.9 77.4	22,200* 21,750 *	55.0	79.9	21,000*	55.0 60.0	78.7 77.3	21,670* 21,270 *				55.0 60.0	79.7 78.4	20,000* 20,000 *				60.0 65.0	79.3 78.0	18,000* 18,000 *			
60.0	76.0	21,360*	60.0	78.5	20,870*	65.0	76.0	20,870*	65.0	79.1	14,940*	65.0	77.1	20,000*				70.0	76.8	18,000*			
65.0	74.6	20,700	65.0	77.1	20,500*	70.0	74.7	18,840	70.0	77.7	14,480*	70.0	75.9	19,060	70.0	79.6	11,300*	75.0	75.5	17,230	75.0	79.9	8,990*
70.0	73.2	18,560	70.0	75.6	19,310	75.0	73.2	16,880	75.0	76.3	14,020*	75.0	74.5	17,100	75.0	78.2	10,930*	80.0	74.3	15,650	80.0	78.6	8,700*
75.0 80.0	71.7 70.3	16,600 15,030	75.0 80.0	74.1 72.6	17,300 15,670	80.0 85.0	71.9 70.5	15,290 13,910	80.0 85.0	74.9 73.5	13,620 * 13,240*	80.0 85.0	73.2 71.9	15,490 14,100	80.0 85.0	76.9 75.5	10,600 * 10,310*	85.0 90.0	73.0 71.8	14,240 13,020	85.0 90.0	77.3 76.0	8,460 * 8,200*
85.0	68.8	13,660	85.0	71.2	14,240	90.0	69.1	12,690	90.0	72.1	12,890*	90.0	70.6	12,890	90.0	74.2	10,030*	95.0	70.4	11,860	95.0	74.6	7,950*
90.0	67.4	12,470	90.0	69.7	13,000	95.0	67.6	11,550	95.0	70.5	12,210	95.0	69.2	11,720	95.0	72.7	9,740*	100.0	69.2	10,890	100.0	73.3	7,760*
95.0	65.8	11,330	95.0	68.1	11,810	100.0	66.2	10,600	100.0	69.1	11,190	100.0	67.8	10,750	100.0	71.4	9,500*	105.0	67.9	10,000	105.0	72.0	7,530*
100.0 105.0	64.3 62.8	10,380 9,540	100.0 105.0	66.5 65.0	10,820 9,940	105.0 110.0	64.8 63.3	9,740 8,970	105.0 110.0	67.6 66.1	10,290 9,470	105.0 110.0	66.5 65.1	9,890 9,100	105.0 110.0	70.0 68.5	9,280* 9,060 *	110.0 115.0	66.6 65.2	9,230 8,460	110.0 115.0	70.7 69.2	7,360* 7,160 *
110.0	61.3	8,770	110.0	63.4	9,140	115.0	61.8	8,200	115.0	64.5	8,680	115.0	63.6	8,350	115.0	67.0	8,840*	120.0	63.8	7,820	120.0	67.8	7,010*
115.0	59.6	8,020	115.0	61.7	8,370	120.0	60.3	7,560	120.0	63.0	8,000	120.0	62.2	7,710	120.0	65.6	8,280	125.0	62.5	7,230	125.0	66.4	6,850*
120.0	58.0	7,380	120.0	60.1	7,710	125.0	58.8	6,980	125.0	61.4	7,380	125.0	60.8	7,120	125.0	64.1	7,640	130.0	61.1	6,670	130.0	65.0	6,700*
125.0 130.0	56.4 54.7	6,810 6,280	125.0 130.0	58.4 56.8	7,090 6,540	130.0 135.0	57.2 55.6	6,430 5,950	130.0 135.0	59.8 58.2	6,830 6,300	130.0 135.0	59.3 57.8	6,560 6,080	130.0 135.0	62.6 61.1	7,070 6,540	135.0 140.0	59.7 58.2	6,150 * 5,590*	135.0 140.0	63.6 62.0	6,540 * 6,210
135.0	53.0	5,770*	135.0	55.0	6,040	140.0	53.9	5,370*	140.0	56.4	5,770	140.0	56.2	5,510*	140.0	59.4	6,010	145.0	56.8	5,110*	145.0	60.5	5,700*
140.0	51.2	5,180*	140.0	53.1	5,480*	145.0	52.3	4,870*	145.0	54.7	5,260*	145.0	54.7	5,020*	145.0	57.8	5,510*	150.0	55.3	4,620*	150.0	59.0	5,220*
145.0	49.4	4,650*	145.0	51.3	4,960*	150.0	50.6	4,380*	150.0	53.0	4,760*	150.0	53.1	4,540*	150.0	56.2	5,020*	155.0	53.8	4,210*	155.0	57.5	4,760*
150.0 155.0	47.6 45.7	4,160* 3,680 *				155.0 160.0	48.8 46.9	3,920* 3,460 *				155.0 160.0	51.5 49.8	4,100* 3,630 *	155.0 160.0	54.5 52.7	4,560* 4,070 *	160.0 165.0	52.2 50.6	3,760* 3,370 *	160.0 165.0	55.8 54.1	4,290* 3,880 *
160.0	43.6	3,210*				165.0	45.1	3,040*				165.0	48.1	3,240*	100.0	02	-1,010	100.0	00.0	0,010	170.0	52.4	3,480*
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Ree		1	Ree	ves	1	Ree	ves	1	Ree	ves	1	Rec	ves	1	Ree	ves	1	Rec	ves	1	Ree	ves	1
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	10	O set An						O set An		-	1			O set An						60 t Set Ar			
Load	10 Boom	Rated	gle (d Load	30 Boom	Rated	Load	10 Boom	O set An	gle (d	30 Boom	Rated	Load	10 Boom	O set Ar	gle (d	30 Boom	Rated	Load	10 Boom	Set Ar	gle (d	30 Boom	Rated
Load Radius (ft)			gle (d	30		Load Radius (ft)	10	O set An	gle (d	30		Load Padius (ft)	10	O set An	gle (d	30	Rated Load (lbs)	Load Radius (ft)	10	Set An	ngle (d	30 Boom	Rated Load (lbs)
Radius	Boom Angle	Rated Load	gle (d Load Radius	30 Boom Angle	Rated Load	Radius	10 Boom Angle	Set Ar	Load Radius	30 Boom Angle	Rated Load	Radius	10 Boom Angle	Rated Load	gle (d Load Radius	30 Boom Angle	Load	Radius	10 Boom Angle	Set Ar Rated Load	Load Radius	30 Boom Angle	Load
Fadius (ft) 50.0 55.0	Boom Angle (deg.) 79.4 78.0	Rated Load (lbs) 19,440* 19,020*	Load Radius (ft)	30 Boom Angle (deg.)	Rated Load (lbs)	Fadius (ft) 55.0 60.0	79.2 77.9	Rated Load (lbs) 18,950* 18,560*	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Radius (ft) 60.0 65.0	10 Boom Angle (deg.) 78.9 77.7	Rated Load (lbs) 18,470* 18,070*	gle (d Load Radius	30 Boom Angle	Load	Radius (ft) 60.0 65.0	10 Boom Angle (deg.) 79.7 78.5	Rated Load (lbs) 18,000* 17,960*	Load Radius	30 Boom Angle	Load
Fadius (ft) 50.0 55.0 60.0	Boom Angle (deg.) 79.4 78.0 76.7	Rated Load (lbs) 19,440* 19,020* 18,620*	Load Radius (ft)	30 Boom Angle (deg.)	Rated Load (lbs)	Fadius (ft) 55.0 60.0 65.0	79.2 76.6	Rated Load (lbs) 18,950* 18,560* 18,160*	Load Radius (ft)	30 Boom Angle (deg.)	Rated Load (lbs)	### Radius (ft) 60.0 65.0 70.0	78.9 76.5	Rated Load (lbs) 18,470* 18,070*	Load Radius (ft)	30 Boom Angle (deg.)	Load (lbs)	### Radius (ft) 60.0 65.0 70.0	79.7 78.5 77.4	Rated Load (lbs) 18,000* 17,960* 17,590*	Load Radius	30 Boom Angle	Load
Fadius (ft) 50.0 55.0	Boom Angle (deg.) 79.4 78.0	Rated Load (lbs) 19,440* 19,020*	Load Radius (ft)	30 Boom Angle (deg.)	Rated Load (lbs)	Fadius (ft) 55.0 60.0	79.2 77.9	Rated Load (lbs) 18,950* 18,560*	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Radius (ft) 60.0 65.0	10 Boom Angle (deg.) 78.9 77.7	Rated Load (lbs) 18,470* 18,070*	gle (d Load Radius	30 Boom Angle	Load	Radius (ft) 60.0 65.0	10 Boom Angle (deg.) 79.7 78.5	Rated Load (lbs) 18,000* 17,960*	Load Radius	30 Boom Angle	Load
50.0 55.0 60.0 65.0 70.0 75.0	800m Angle (deg.) 79.4 78.0 76.7 75.4 74.0 72.6	Rated Load (lbs) 19,440* 19,020* 18,620* 18,250* 17,870* 16,420	Load Radius (ft) 60.0 65.0 70.0 75.0	30 Boom Angle (deg.) 79.0 77.7 76.3 74.9	Rated Load (lbs) 18,250* 17,870* 17,520* 17,150	55.0 60.0 65.0 70.0 75.0 80.0	79.2 77.9 76.6 75.4 74.0	Rated Load (lbs) 18,950* 18,560* 18,160* 17,810* 16,710 15,120	Load Radius (ft) 65.0 70.0 75.0 80.0	30 Boom Angle (deg.) 79.6 78.3 76.9 75.6	### Rated Load (lbs) 15,100* 14,660* 14,190* 13,800*	60.0 65.0 70.0 75.0 80.0 85.0	78.9 77.7 76.5 75.2 73.9 72.7	Rated Load (lbs) 18,470* 18,070* 17,700* 16,930 15,320 13,930	Load Radius (ft) 75.0 80.0 85.0	30 Boom Angle (deg.) 78.7 77.5 76.2	Load (lbs) 11,040* 10,730* 10,420*	60.0 65.0 70.0 75.0 80.0 85.0	79.7 78.5 77.4 76.1 74.9	Rated Load (lbs) 18,000* 17,960* 17,590* 17,080 15,470 14,060	Load Radius (ft) 80.0	Boom Angle (deg.) 79.1 77.9	Load (lbs) 8,790* 8,550*
Fadius (ft) 50.0 55.0 60.0 65.0 70.0 75.0 80.0	800m Angle (deg.) 79.4 78.0 76.7 75.4 74.0 72.6 71.2	Rated Load (lbs) 19,440* 19,020* 18,620* 18,250* 17,870* 16,420 14,850	Load Radius (ft) 60.0 65.0 70.0 75.0 80.0	79.0 77.7 76.3 74.9	Rated Load (lbs) 18,250* 17,870* 17,520* 17,150 15,520	Fadius (ft) 55.0 60.0 65.0 70.0 75.0 80.0 85.0	79.2 77.9 76.6 75.4 74.0 72.7	Pated Load (lbs) 18,950* 18,560* 18,160* 17,810* 16,710 15,120 13,730	Load Radius (ft) 65.0 70.0 75.0 80.0 85.0	79.6 78.3 76.9 74.3	15,100* 14,660* 14,190* 13,800* 13,420*	Radius (ft) 60.0 65.0 70.0 75.0 80.0 85.0 90.0	70.0 Boom Angle (deg.) 78.9 77.7 76.5 75.2 73.9 72.7 71.4	Pated Load (lbs) 18,470* 18,070* 17,700* 16,930 15,320 13,930 12,690	Load Radius (ft) 75.0 80.0 85.0 90.0	30 Boom Angle (deg.) 78.7 77.5 76.2 74.9	11,040* 10,730* 10,420* 10,160*	Radius (ft) 60.0 65.0 70.0 75.0 80.0 85.0 90.0	79.7 78.5 77.4 76.1 74.9 73.8 72.6	Rated Load (lbs) 18,000* 17,960* 17,590* 15,470 14,060 12,830	Load Radius (ft) 80.0 85.0 90.0	30 Boom Angle (deg.) 79.1 77.9 76.6	8,790* 8,550* 8,310*
50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	79.4 78.0 76.7 75.4 74.0 72.6 71.2 69.9 68.5	Rated Load (lbs) 19,440* 19,020* 18,620* 18,250* 17,870* 16,420 14,850 13,490 12,270	Load Radius (ft) 60.0 65.0 70.0 75.0	30 Boom Angle (deg.) 79.0 77.7 76.3 74.9	Rated Load (lbs) 18,250* 17,870* 17,520* 17,150 15,520 14,080 12,850	55.0 60.0 65.0 70.0 75.0 80.0	79.2 77.9 76.6 75.4 74.0	Rated Load (lbs) 18,950* 18,560* 18,160* 17,810* 16,710 15,120 13,730 12,520 11,370	Load Radius (ft) 65.0 70.0 75.0 80.0	30 Boom Angle (deg.) 79.6 78.3 76.9 75.6	15,100* 14,660* 14,190* 13,800* 13,420* 13,090* 12,050	60.0 65.0 70.0 75.0 80.0 85.0	78.9 77.7 76.5 75.2 73.9 72.7	Rated Load (lbs) 18,470* 18,070* 17,700* 16,930 15,320 13,930	75.0 80.0 85.0 90.0 100.0	78.7 77.5 76.2 74.9 73.5 72.2	11,040* 10,730* 10,420* 10,160* 9,870* 9,630*	Radius (ft) 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0	79.7 78.5 77.4 76.1 74.9	Rated Load (lbs) 18,000* 17,960* 17,590* 15,470 14,060 12,830 11,680 10,710	Load Radius (ft) 80.0 85.0 90.0 95.0 100.0	Boom Angle (deg.) 79.1 77.9	8,790* 8,550* 8,310* 8,060* 7,840*
50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	800m Angle (deg.) 79.4 78.0 76.7 75.4 74.0 72.6 71.2 69.9 68.5 67.0	Rated Load (lbs) 19,440* 19,020* 18,620* 17,870* 16,420 14,850 13,490 12,270 11,150	60.0 65.0 70.0 75.0 80.0 85.0 90.0	79.0 77.7 76.3 74.9 73.5 72.1 70.7 69.2	Rated Load (lbs) 18,250* 17,870* 17,520* 15,520 14,080 12,850 11,660	75.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0	79.2 77.9 76.6 75.4 74.0 72.7 71.4 70.1 68.7 67.3	Rated Load (fbs) 18,950* 18,560* 18,160* 17,810* 16,710 15,120 11,3730 12,520 11,370 10,420	65.0 70.0 75.0 85.0 90.0 95.0	79.6 78.3 76.9 75.6 74.3 72.9 71.5 70.1	15,100* 14,660* 14,190* 13,800* 13,420* 13,090* 12,050 11,040	Radius (ft) 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 105.0	78.9 77.7 76.5 75.2 73.9 72.7 71.4 70.1 68.8 67.5	Rated Load (lbs) 18,470* 18,070* 16,930 15,320 13,930 12,690 11,550 10,580 9,720	75.0 80.0 85.0 90.0 100.0 105.0	78.7 77.5 76.2 74.9 73.5 72.2 70.9	11,040* 10,730* 10,420* 10,160* 9,870* 9,630* 9,410*	Radius (ft) 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 105.0	79.7 78.5 77.4 76.1 74.9 73.8 72.6 71.3 70.1 68.8	Rated Load (lbs) 18,000* 17,960* 17,590* 17,080 15,470 14,060 12,830 11,680 10,710 9,830	80.0 85.0 90.0 100.0	79.1 77.9 76.6 75.3 74.1 72.8	8,790* 8,550* 8,310* 8,060* 7,840* 7,640*
75.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0	Room Angle (deg.) 79.4 78.0 76.7 75.4 74.0 72.6 71.2 69.9 68.5 67.0 65.6	Rated Load (lbs) 19,440* 19,020* 18,620* 17,870* 16,420 14,850 13,490 12,270 11,150 10,200	60.0 65.0 70.0 75.0 80.0 90.0 95.0	79.0 77.7 76.3 74.9 73.5 72.1 70.7 69.2 67.7	Rated Load (lbs) 18,250* 17,870* 17,520* 15,520 14,080 12,850 11,660 10,670	75.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0	79.2 77.9 76.6 75.4 74.0 72.7 71.4 70.1 68.7 67.3 66.0	Rated Load (lbs) 18,950* 18,560* 18,160* 17,810* 16,710 15,120 11,3730 12,520 11,370 10,420 9,540	65.0 70.0 75.0 85.0 90.0 95.0 100.0	79.6 78.3 76.9 75.6 74.3 72.9 71.5 70.1 68.7	15,100* 14,660* 14,900* 13,800* 13,420* 13,090* 12,050 11,040	Radius (ft) 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 110.0	70.1 Boom Angle (deg.) 78.9 77.7 76.5 75.2 73.9 72.7 71.4 70.1 68.8 67.5 66.2	Rated Load (lbs) 18,470* 18,070* 17,700* 16,930 15,330 12,690 11,550 10,580 9,720 8,920	75.0 80.0 85.0 90.0 100.0 110.0	78.7 77.5 76.2 74.9 73.5 72.2 70.9 69.6	11,040* 10,730* 10,420* 10,160* 9,870* 9,630* 9,410* 9,190*	Radius (ft) 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 105.0	79.7 78.5 77.4 76.1 74.9 73.8 72.6 71.3 70.1 68.8 67.6	Rated Load (lbs) 18,000* 17,960* 17,590* 17,080 15,470 14,060 12,830 10,710 9,830 9,030	80.0 85.0 90.0 100.0 110.0	79.1 77.9 76.6 75.3 74.1 72.8 71.5	8,790* 8,550* 8,310* 8,060* 7,840* 7,640* 7,450*
50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	Room Angle (deg.) 79.4 78.0 76.7 75.4 74.0 72.6 71.2 69.9 68.5 67.0 65.6	Rated Load (lbs) 19,440* 19,020* 18,620* 17,870* 16,420 14,850 13,490 12,270 11,150	60.0 65.0 70.0 75.0 80.0 85.0 90.0	79.0 77.7 76.3 74.9 73.5 72.1 70.7 69.2	Rated Load (lbs) 18,250* 17,870* 17,520* 15,520 14,080 12,850 11,660	75.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0	79.2 77.9 76.6 75.4 74.0 72.7 71.4 70.1 68.7 67.3	Rated Load (fbs) 18,950* 18,560* 18,160* 17,810* 16,710 15,120 11,3730 12,520 11,370 10,420	65.0 70.0 75.0 85.0 90.0 95.0	79.6 78.3 76.9 75.6 74.3 72.9 71.5 70.1	15,100* 14,660* 14,190* 13,800* 13,420* 13,090* 12,050 11,040	Radius (ft) 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 105.0 110.0 115.0 120.0	78.9 77.7 76.5 75.2 73.9 72.7 71.4 70.1 68.8 67.5	Rated Load (lbs) 18,470* 18,070* 16,930 15,320 13,930 12,690 11,550 10,580 9,720	75.0 80.0 85.0 90.0 100.0 105.0	78.7 77.5 76.2 74.9 73.5 72.2 70.9 69.6 68.1 66.7	11,040* 10,730* 10,420* 10,160* 9,870* 9,630* 9,410*	Radius (ft) 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 105.0	79.7 78.5 77.4 76.1 74.9 73.8 72.6 71.3 70.1 68.8	Rated Load (lbs) 18,000* 17,960* 17,590* 17,080 15,470 14,060 12,830 11,680 10,710 9,830	80.0 85.0 90.0 95.0 100.0 110.0 115.0 120.0	79.1 77.9 76.6 75.3 74.1 72.8 71.5	8,790* 8,550* 8,310* 8,060* 7,840* 7,640*
75.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 110.0 115.0	### Room Angle (deg.) 79.4 78.0 76.7 75.4 74.0 72.6 71.2 69.9 68.5 67.0 65.6 64.1 62.7 61.1	Rated Load (lbs) 19,440* 19,020* 18,620* 17,870* 16,420 14,850 13,490 12,270 11,150 10,200 9,340 8,570 7,840	Gle (d Radius (ft) 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 105.0 111.0	79.0 77.7 76.3 74.9 73.5 72.1 70.7 69.2 67.7 66.3 64.8 63.2	Rated Load (/lbs) 18,250* 17,870* 17,520* 15,520 14,080 12,850 11,660 10,670 9,780 8,970 8,200	75.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 115.0 120.0	79.2 77.9 76.6 75.4 70.1 68.7 66.0 64.6 63.1 61.7	Pated Load (lbs) 18,950* 18,560* 18,160* 17,810* 16,710 15,120 11,3730 12,520 11,370 10,420 9,5470 8,020 7,380	65.0 70.0 75.0 85.0 90.0 95.0 100.0 115.0 120.0	79.6 78.3 75.6 74.3 72.9 71.5 70.1 68.7 65.8 64.3	15,100* 14,660* 14,190* 13,800* 13,420* 13,090* 12,050 11,040 9,320 8,530 7,840	Radius (ft) 60.0 65.0 70.0 75.0 80.0 95.0 100.0 115.0 120.0 125.0	78.9 77.7 76.5 75.2 73.9 72.7 71.4 70.1 68.8 67.5 66.2 64.8 63.5 62.1	Pated Load (lbs) 18,470* 18,070* 17,700* 16,930 15,320 12,690 11,550 10,580 9,720 8,920 8,170 7,510 6,900*	75.0 80.0 85.0 90.0 105.0 115.0 125.0 125.0	78.7 77.5 76.2 74.9 73.5 72.2 70.9 69.6 68.1 66.7 65.3	11,040* 10,730* 10,420* 10,160* 9,870* 9,630* 9,410* 9,190* 8,810 8,130 7,490	Radius (ft) 60.0 65.0 70.0 75.0 80.0 90.0 95.0 100.0 115.0 120.0 125.0	79.7 78.5 77.4 76.1 74.9 73.8 72.6 71.3 70.1 68.8 67.6 66.3 65.0 63.7	Rated Load (lbs) 18,000* 17,960* 17,590* 15,470 14,060 10,710 9,830 9,030 9,030 8,260* 7,580* 6,940*	80.0 85.0 95.0 100.0 110.0 115.0 120.0	79.1 77.9 76.6 75.3 74.1 72.8 71.5 70.2 68.9 67.5	8,790* 8,550* 8,310* 8,060* 7,840* 7,450* 7,270* 7,090* 6,940*
75.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 110.0 115.0 120.0	79.4 78.0 76.7 75.4 74.0 72.6 71.2 69.9 68.5 67.0 65.6 64.1 62.7 61.1 59.6	Rated Load (lbs) 19,440* 19,020* 18,620* 18,620* 17,870* 16,420 14,850 13,490 12,270 11,150 10,200 9,340 8,570 7,840 7,200	Load Radius (ft)	79.0 77.7 76.3 74.9 73.5 72.1 70.7 66.3 64.8 63.2 61.7	18,250* 17,870* 17,520* 17,520* 17,520 14,080 12,850 11,660 10,670 9,780 8,970 8,200 7,530	75.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 115.0 120.0 125.0	79.2 77.9 76.6 75.4 74.0 72.7 71.4 68.7 66.0 64.6 63.1 61.7 60.3	Pated Load (lbs) 18,950* 18,560* 18,160* 17,810* 16,710 15,120 11,3730 12,520 11,370 10,420 9,540 8,770 8,020 7,380 6,790	Gle (d Load Radius (ft) 65.0 70.0 75.0 80.0 85.0 90.0 90.0 105.0 110.0 115.0 120.0	79.6 78.3 76.9 75.6 74.3 72.9 71.5 70.1 68.7 65.8 64.3 62.9	15,100* 14,660* 14,190* 13,800* 13,802* 13,900* 12,050 11,040 10,140 9,320 7,840 7,230	Radius (ft) 60.0 65.0 70.0 75.0 80.0 90.0 95.0 100.0 115.0 120.0 130.0	78.9 77.7 76.5 75.2 73.9 72.7 71.4 68.8 67.5 66.2 64.8 63.5 62.1 60.8	Pated Load (lbs) 18,470* 18,070* 17,700* 16,930 15,320 12,690 11,550 10,580 9,720 8,920 8,170 7,510 6,900* 6,300*	75.0 80.0 85.0 99.0 100.0 115.0 125.0 130.0	78.7 77.5 76.2 74.9 73.5 72.2 70.9 69.6 68.1 66.7 65.3 63.9	11,040* 10,730* 10,420* 10,160* 9,670* 9,630* 9,410* 8,810 8,130 7,490 6,870*	Radius (ft) 60.0 65.0 70.0 75.0 80.0 90.0 95.0 100.0 105.0 110.0 120.0 125.0 130.0	79.7 78.5 77.4 76.1 74.9 73.8 67.6 66.3 65.0 63.7 62.4	Rated Load (lbs) 18,000* 17,960* 17,590* 17,080 15,470 14,060 12,830 10,710 9,830 9,030 8,260* 7,580* 6,940* 6,370*	80.0 85.0 99.0 100.0 110.0 120.0 125.0 130.0	79.1 77.9 76.6 75.3 74.1 72.8 71.5 70.2 68.9 67.5 66.2	8,790* 8,550* 8,310* 8,060* 7,840* 7,450* 7,270* 7,090* 6,940* 6,790*
75.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 110.0 115.0	### Room Angle (deg.) 79.4 78.0 76.7 75.4 74.0 72.6 71.2 69.9 68.5 67.0 65.6 64.1 62.7 61.1	Rated Load (lbs) 19,440* 19,020* 18,620* 17,870* 16,420 14,850 13,490 12,270 11,150 10,200 9,340 8,570 7,840	Gle (d Radius (ft) 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 105.0 111.0	79.0 77.7 76.3 74.9 73.5 72.1 70.7 69.2 67.7 66.3 64.8 63.2	Rated Load (lbs) 18,250* 17,870* 17,520* 17,520* 15,520* 14,080 12,850 11,660 10,670 9,780 8,200 7,530 6,940 6,370	75.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 115.0 120.0	79.2 77.9 76.6 75.4 70.1 68.7 66.0 64.6 63.1 61.7	Pated Load (lbs) 18,950* 18,560* 18,160* 17,810* 16,710 15,120 11,3730 12,520 11,370 10,420 9,5470 8,020 7,380	65.0 70.0 75.0 85.0 90.0 95.0 100.0 115.0 120.0	79.6 78.3 75.6 74.3 72.9 71.5 70.1 68.7 65.8 64.3	15,100* 14,660* 14,190* 13,800* 13,420* 13,090* 12,050 11,040 9,320 8,530 7,840	Radius (ft) 60.0 65.0 70.0 75.0 80.0 95.0 100.0 115.0 120.0 125.0	78.9 77.7 76.5 75.2 73.9 72.7 71.4 70.1 68.8 67.5 66.2 64.8 63.5 62.1	Pated Load (lbs) 18,470* 18,070* 17,700* 16,930 15,320 12,690 11,550 10,580 9,720 8,920 8,170 7,510 6,900*	75.0 80.0 85.0 90.0 105.0 115.0 125.0 125.0	78.7 77.5 76.2 74.9 73.5 72.2 70.9 69.6 68.1 66.7 65.3	11,040* 10,730* 10,420* 10,160* 9,870* 9,630* 9,410* 9,190* 8,810 8,130 7,490	Radius (ft) 60.0 65.0 70.0 75.0 80.0 90.0 95.0 100.0 115.0 120.0 125.0	79.7 78.5 77.4 76.1 74.9 73.8 72.6 71.3 70.1 68.8 67.6 66.3 65.0 63.7	Rated Load (lbs) 18,000* 17,960* 17,590* 15,470 14,060 10,710 9,830 9,030 9,030 8,260* 7,580* 6,940*	80.0 85.0 95.0 100.0 110.0 115.0 120.0	79.1 77.9 76.6 75.3 74.1 72.8 71.5 70.2 68.9 67.5	8,790* 8,550* 8,310* 8,060* 7,840* 7,450* 7,270* 7,090* 6,940*
Padius (ft) 50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 995.0 110.0 115.0 120.0 125.0 135.0	Room Angle (deg.) 79.4 78.0 76.7 75.4 74.0 72.6 69.9 68.5 67.0 65.6 64.1 59.6 58.1 56.6 55.0	Rated Load (lbs) 19,440* 19,020* 18,620* 18,250* 17,870* 16,420 14,850 13,490 12,270 11,150 10,200 9,340 8,570 7,840 7,200 6,630 6,040* 5,460*	Gle (d Load Radius (ft) 60.0 65.0 70.0 75.0 80.0 85.0 90.0 90.0 105.0 115.0 125.0 130.0 135.0	79.0 77.7 76.3 74.9 73.2 70.7 66.3 64.8 63.2 61.7 60.1 58.5 56.9	Rated Load (lbs) 18,250* 17,870* 17,520* 17,520* 15,520* 14,080 12,850 11,660 10,670 9,780 8,200 7,530 6,940 6,370 5,790*	Fadius (ft) 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 105.0 115.0 125.0 135.0 140.0	79.2 77.9 76.6 75.4 74.0 72.7 71.4 66.7 66.3 66.0 64.6 63.1 61.7 60.3 58.8 57.4 55.8	Rated Load (lbs) 18,950* 18,560* 18,160* 17,810* 15,120 13,730 12,520 11,370 10,420 9,540 8,770 8,020 7,380 6,790 6,190* 5,640* 5,070*	Gle (d Load Radius (t) 65.0 70.0 75.0 80.0 85.0 90.0 100.0 110.0 120.0 130.0 130.0 130.0	79.6 (deg.) 79.6 78.3 76.9 75.6 74.3 72.9 66.7 66.7 66.7 66.9 61.4 59.9 58.2	15,100* 14,660* 14,190* 13,800* 13,420* 13,050 11,040 10,140 9,320 8,530 7,840 7,230 6,650 6,080* 5,510*	Redius (ft) 60.0 65.0 70.0 75.0 80.0 85.0 90.0 90.0 105.0 115.0 125.0 133.0 145.0 145.0	78.9 77.7 76.5 75.2 73.9 72.7 71.4 70.1 68.8 67.5 66.2 64.8 63.5 62.1 60.8 59.4 57.9	Pated Load (lbs) 18,470* 18,070* 17,700* 16,930 15,320 13,930 12,690 11,550 10,580 9,720 8,920 8,170 7,510 6,900* 6,300* 5,750* 5,200* 4,710*	75.0 80.0 85.0 90.0 90.0 105.0 115.0 120.0 135.0 140.0 145.0 145.0	78.7 77.5 76.2 74.9 73.5 72.2 70.9 69.6 68.1 66.7 65.3 60.9 59.5	11,040* 10,730* 10,420* 10,160* 9,870* 9,410* 9,190* 8,810 8,130 7,490 6,300* 5,730* 5,730* 5,220*	Padius (ti) 60.0 65.0 70.0 75.0 80.0 85.0 90.0 105.0 115.0 125.0 133.0 145.0 145.0	79.7 78.5 77.4 76.1 74.9 73.8 72.6 67.6 66.3 76.5 65.0 65.0 65.0 65.0 65.2 65.0 65.2 65.3 75.3 75.3 65.3 75.3 75.3 75.3 75.3 75.3 75.3 75.3 7	Rated Load (lbs) 18,000* 17,960* 17,590* 17,080 15,470 14,060 12,830 10,710 9,830 9,030 8,260* 7,580* 6,340* 6,340* 5,260* 4,780*	80.0 85.0 90.0 90.0 105.0 115.0 120.0 135.0 140.0 145.0	79.1 77.9 76.6 75.3 74.1 72.8 71.5 66.9 67.5 66.2 64.8 63.4 62.0	8,790* 8,550* 8,310* 8,060* 7,640* 7,450* 7,270* 6,940* 6,940* 6,480* 5,900* 5,400*
Fadius (ft) 50.0 55.0 60.0 65.0 75.0 80.0 85.0 90.0 95.0 110.0 115.0 120.0 135.0 140.0	Room Angle (deg.) 79.4 78.0 76.7 75.4 74.0 72.6 71.2 69.9 68.5 67.0 65.6 64.1 62.7 61.1 59.6 55.0 53.3	Rated Load (lbs) 19,440* 19,020* 18,620* 18,670* 17,870* 16,420 14,850 13,490 12,270 11,150 10,200 9,340 8,570 7,840 7,200 6,6040* 5,460* 4,890*	Gle (d Load Radius (ft) 60.0 65.0 70.0 75.0 80.0 85.0 90.0 910.0 110.0 1120.0 120.0 133.0 135.0 140.0	79.0 77.7 76.3 74.9 73.5 72.1 70.7 69.2 67.7 66.3 64.8 63.2 60.1 58.5 56.9 55.2	Rated Load (/lbs) 18,250* 17,870* 17,520* 15,520* 14,080 12,850 10,670 9,780 8,970 8,200 7,530 6,940 6,370 5,790* 5,220*	Fadius (ft) 55.0 60.0 65.0 70.0 75.0 80.0 85.0 99.0 100.0 115.0 120.0 135.0 140.0 145.0	79.2 77.9 76.6 75.4 74.0 72.7 71.4 70.1 68.7 66.0 64.6 63.1 61.3 58.8 57.4 55.8	Rated Load (lbs) 18,950* 18,950* 18,560* 18,560* 18,60* 17,810* 15,120 13,730 12,520 11,370 10,420 9,540 8,770 8,020 7,380 6,790* 6,190* 5,640* 5,070* 4,580*	65.0 70.0 75.0 80.0 105.0 115.0 125.0 130.0 145.	79.6 78.3 76.9 75.6 74.3 72.9 71.5 66.4 66.3 66.4 59.9 58.2 56.6	15,100* 14,660* 14,190* 13,800* 13,420* 13,090* 12,050 11,040 10,140 9,320 8,530 7,240 7,230 6,650 6,080* 5,510* 4,980*	Redius (ft) 60.0 65.0 70.0 75.0 80.0 85.0 99.0 95.0 110.0 125.0 130.0 145.0 145.0 150.0	78.9 77.7 76.5 75.2 73.9 72.7 71.4 70.1 68.8 67.5 66.2 64.8 63.5 62.1 60.8 59.4 57.9 56.4	Pated Load (lbs) 18,470* 18,070* 17,700* 16,930 15,320 13,930 12,690 11,550 10,580 9,720 8,920 8,170 7,510 6,900* 6,300* 5,750* 5,200* 4,710* 4,250*	75.0 80.0 85.0 90.0 90.0 105.0 115.0 125.0 135.0 145.0 150.0	78.7 77.5 76.2 74.9 79.6 69.6 68.1 66.7 65.3 63.9 60.9 59.5 57.9	11,040* 10,730* 10,420* 10,160* 9,870* 9,630* 9,190* 8,810 8,130 7,490 6,870* 6,300* 5,730* 5,220* 4,730*	Radius (ft) 60.0 65.0 70.0 85.0 90.0 95.0 100.0 115.0 125.0 135.0 140.0 145.0 150.0	79.7 78.5 77.4 76.1 74.9 73.8 72.6 66.3 65.0 63.7 62.4 61.1 59.7 58.3 56.9	Rated Load (lbs) 18,000* 17,960* 17,590* 17,080 15,470 14,060 12,830 11,680 10,710 9,830 9,030 8,260* 7,580* 6,340* 5,820* 5,820* 4,780* 4,340*	80.0 85.0 90.0 100.0 115.0 125.0 135.0 145.0 150	79.1 77.9 76.6 75.3 74.1 72.8 71.5 70.2 68.9 67.5 66.4 63.4 62.0 60.5	8,790* 8,550* 8,310* 8,060* 7,840* 7,450* 7,270* 7,090* 6,940* 6,790* 6,480* 5,400* 4,930*
Padius (ft) 50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 995.0 110.0 115.0 120.0 125.0 135.0	Room Angle (deg.) 79.4 78.0 76.7 75.4 74.0 72.6 71.2 69.9 68.5 67.0 65.6 64.1 62.7 61.1 59.6 55.0 53.3	Rated Load (lbs) 19,440* 19,020* 18,620* 18,250* 17,870* 16,420 14,850 13,490 12,270 11,150 10,200 9,340 8,570 7,840 7,200 6,630 6,040* 5,460*	Gle (d Load Radius (ft) 60.0 65.0 70.0 75.0 80.0 85.0 90.0 90.0 105.0 115.0 125.0 130.0 135.0	79.0 77.7 76.3 74.9 73.5 72.1 70.7 66.3 64.8 63.2 66.1.7 60.1 58.5 56.9 55.2 53.5	Rated Load (lbs) 18,250* 17,870* 17,520* 17,520* 15,520* 14,080 12,850 11,660 10,670 9,780 8,200 7,530 6,940 6,370 5,790*	Fadius (ft) 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 105.0 115.0 125.0 135.0 140.0	79.2 77.9 76.6 75.4 74.0 72.7 71.4 66.7 66.3 66.0 64.6 63.1 61.7 60.3 58.8 57.4 55.8	Rated Load (lbs) 18,950* 18,560* 18,160* 17,810* 15,120 13,730 12,520 11,370 10,420 9,540 8,770 8,020 7,380 6,790 6,190* 5,640* 5,070*	Gle (d Load Radius (t) 65.0 70.0 75.0 80.0 85.0 90.0 100.0 110.0 120.0 130.0 130.0 130.0	79.6 (deg.) 79.6 78.3 76.9 75.6 74.3 72.9 66.7 66.7 66.7 66.9 61.4 59.9 58.2	15,100* 14,660* 14,190* 13,800* 13,420* 13,050 11,040 10,140 9,320 8,530 7,840 7,230 6,650 6,080* 5,510*	Redius (ft) 60.0 65.0 70.0 75.0 80.0 85.0 90.0 90.0 105.0 115.0 125.0 133.0 145.0 145.0	78.9 77.7 76.5 75.2 73.9 72.7 71.4 70.1 68.8 67.5 66.2 64.8 63.5 62.1 60.8 59.4 57.9	Pated Load (lbs) 18,470* 18,070* 17,700* 16,930 15,320 13,930 12,690 11,550 10,580 9,720 8,920 8,170 7,510 6,900* 6,300* 5,750* 5,200* 4,710*	75.0 80.0 85.0 90.0 90.0 105.0 115.0 120.0 135.0 140.0 145.0 145.0	78.7 77.5 76.2 74.9 73.5 72.2 70.9 69.6 68.1 66.7 65.3 60.9 59.5	11,040* 10,730* 10,420* 10,160* 9,870* 9,410* 9,190* 8,810 8,130 7,490 6,300* 5,730* 5,730* 5,220*	Padius (ti) 60.0 65.0 70.0 75.0 80.0 85.0 90.0 105.0 115.0 125.0 133.0 145.0 145.0	79.7 78.5 77.4 76.1 74.9 73.8 72.6 66.3 65.0 63.7 62.4 61.1 59.7 58.3 56.9	Rated Load (lbs) 18,000* 17,960* 17,590* 17,080 15,470 14,060 12,830 10,710 9,830 9,030 8,260* 7,580* 6,340* 6,340* 5,260* 4,780*	80.0 85.0 90.0 90.0 105.0 115.0 120.0 135.0 140.0 145.0	79.1 77.9 76.6 75.3 74.1 72.8 71.5 66.9 67.5 66.2 64.8 63.4 62.0	8,790* 8,550* 8,310* 8,060* 7,640* 7,450* 7,270* 6,940* 6,940* 6,480* 5,900* 5,400*
Fadius (ft) 50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 105.0 115.0 125.0 135.0 140.0 145.0	Room Angle (deg.) 79.4 78.0 76.7 75.4 74.0 72.6 69.9 66.6 64.1 62.7 61.1 59.6 55.0 55.0 50.0	Rated Load (lbs) 19,440* 19,020* 18,620* 17,870* 16,420 14,850 13,490 12,270 11,150 10,200 9,340 8,570 7,840 7,200 6,630 6,040* 5,460* 4,890* 4,380*	60.0 65.0 70.0 88.0 99.0 100.0 115.0 125.0 130.0 140.0 145.0 145.0	79.0 77.7 76.3 74.9 73.5 72.1 70.7 66.3 64.8 63.2 66.1.7 60.1 58.5 56.9 55.2 53.5	Rated Load (lbs) 18,250* 17,870* 17,520* 17,150 15,520 14,080 12,850 10,670 9,780 8,970 8,970 8,200 7,530 6,940 6,370 5,790* 5,220* 4,690*	Fadius (ft) 55.0 60.0 65.0 70.0 75.0 80.0 85.0 99.0 100.0 115.0 120.0 130.0 140.0 145.0 150.0	79.2 77.9 76.6 75.4 74.0 72.7 71.4 70.1 68.7 67.3 66.0 64.6 63.1 61.7 60.3 58.8 57.4 55.8 54.2 52.7	Pated Load (lbs) 18,950* 18,560* 18,160* 17,810* 16,710 15,120 11,3730 12,520 11,370 10,420 9,5470 8,020 7,380 6,790 6,190* 5,640* 5,070* 4,580* 4,120*	65.0 70.0 75.0 99.0 100.0 115.0 125.0 135.0 140.0 145.0 150.	79.6 78.3 76.9 75.6 74.3 72.9 71.5 70.1 68.7 67.3 65.8 64.9 55.0 55.0	15,100* 14,660* 14,190* 13,800* 13,420* 13,090* 12,050 11,040 10,140 9,320 6,550 6,080* 5,510* 4,980* 4,490*	Radius (ft) 60.0 65.0 70.0 75.0 85.0 90.0 95.0 100.0 115.0 125.0 135.0 140.0 145.0 155.0	78.9 77.7 76.5 75.2 73.9 72.7 71.4 70.1 66.8 67.5 66.2 64.8 63.5 62.1 60.8 59.4 55.0 53.5	Pated Load (lbs) 18,470* 18,070* 17,700* 16,930 15,320 11,550 10,580 9,720 8,920 8,170 7,510 6,900* 6,300* 5,750* 5,200* 4,710* 4,250* 3,810*	75.0 80.0 99.0 95.0 110.0 120.0 125.0 135.0 140.0 155.0 155.0	78.7 76.2 74.9 73.5 72.2 70.9 69.6 66.7 65.3 63.9 62.5 60.9 59.5 57.9 56.4 54.7	11,040* 10,730* 10,420* 10,160* 9,870* 9,630* 9,410* 9,190* 8,810 8,130 7,490 6,870* 5,730* 5,730* 5,220* 4,730* 4,290*	Radius (ft) 60.0 65.0 70.0 85.0 90.0 95.0 100.0 115.0 125.0 135.0 140.0 145.0 155.0	79.7 78.5 77.4 76.1 74.9 78.5 77.6 66.3 67.6 66.3 63.7 62.4 61.1 59.7 58.3 55.5 54.0	Rated Load (lbs) 18,000* 17,960* 17,590* 15,470 14,060 15,470 9,830 10,710 9,830 9,030 8,260* 7,580* 6,940* 6,370* 5,260* 4,780* 4,340* 3,900*	80.0 85.0 99.0 95.0 100.0 115.0 125.0 135.0 140.0 145.0 150.0 150.0 160.0 160.0	79.1 77.9 76.6 75.3 74.1 72.8 71.5 66.2 64.8 63.4 62.0 69.1 57.5 56.0	8,790* 8,550* 8,310* 8,060* 7,840* 7,640* 7,450* 7,900* 6,940* 4,930* 4,930* 4,930* 4,930* 3,610*
Fadius (ft) 50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 105.0 115.0 125.0 130.0 145.0 145.0 150.0	Room Angle (deg.) 79.4 78.0 76.7 75.4 74.0 72.6 69.9 66.6 64.1 62.7 61.1 59.6 55.0 55.0 50.0	Rated Load (lbs) 19,440* 19,020* 18,620* 18,620* 17,870* 16,420* 14,850 13,490 12,270 11,150 10,200 9,340 8,570 7,200 6,630 6,040* 5,460* 4,890* 4,380* 3,920*	60.0 65.0 70.0 88.0 99.0 100.0 115.0 125.0 130.0 140.0 145.0 145.0	79.0 77.7 76.3 74.9 73.5 72.1 70.7 66.3 64.8 63.2 66.1.7 60.1 58.5 56.9 55.2 53.5	Rated Load (lbs) 18,250* 17,870* 17,520* 17,150 15,520 14,080 12,850 10,670 9,780 8,970 8,970 8,200 7,530 6,940 6,370 5,790* 5,220* 4,690*	Fadius (ft) 55.0 60.0 70.0 75.0 80.0 85.0 90.0 95.0 110.0 125.0 130.0 135.0 140.0 155.0	70.2 77.9 76.6 75.4 74.0 72.7 71.4 70.1 66.7 66.3 66.0 64.6 63.1 61.7 60.3 58.8 57.4 55.8 55.4 55.4 51.0	Pated Load (lbs) 18,950* 18,560* 18,160* 17,810* 16,710 15,120 13,730 12,520 11,370 10,420 9,540 8,770 8,020 7,380 6,790 6,190* 5,640* 5,070* 4,580* 4,120* 3,680*	65.0 70.0 75.0 99.0 100.0 115.0 125.0 135.0 140.0 145.0 150.	79.6 78.3 76.9 75.6 74.3 72.9 71.5 70.1 68.7 67.3 65.8 64.9 55.0 55.0	15,100* 14,660* 14,190* 13,800* 13,420* 13,090* 12,050 11,040 10,140 9,320 6,550 6,080* 5,510* 4,980* 4,490*	Radius (ft) 60.0 65.0 70.0 75.0 85.0 90.0 95.0 100.0 115.0 125.0 135.0 140.0 145.0 155.0	78.9 77.7 76.5 75.2 73.9 72.7 71.4 70.1 66.8 67.5 66.2 64.8 63.5 62.1 60.8 59.4 55.0 53.5	Pated Load (lbs) 18,470* 18,070* 17,700* 16,930 15,320 11,550 10,580 9,720 8,920 8,170 7,510 6,900* 6,300* 5,750* 5,200* 4,710* 4,250* 3,810*	75.0 80.0 95.0 100.0 125.0 135.0 140.0 155.0 160	78.7 76.2 74.9 73.5 72.2 70.9 69.6 66.7 65.3 63.9 62.5 60.9 59.5 57.9 56.4 54.7	11,040* 10,730* 10,420* 10,160* 9,630* 9,410* 9,190* 8,810 8,130 6,870* 6,300* 5,730* 5,230* 4,730* 4,290* 3,830*	Radius (ft) 60.0 65.0 75.0 80.0 85.0 90.0 105.0 115.0 125.0 135.0 140.0 155.0 155.0 160.0	79.7 78.5 77.4 76.1 74.9 78.5 77.6 66.3 67.6 66.3 63.7 62.4 61.1 59.7 58.3 55.5 54.0	Rated Load (lbs) 18,000* 17,960* 17,590* 17,590* 15,470 14,060 12,830 11,680 10,710 9,830 9,030 8,260* 7,580* 6,940* 6,370* 5,820* 5,260* 4,780* 4,340* 3,900* 3,480*	80.0 85.0 99.0 95.0 110.0 115.0 120.0 125.0 135.0 140.0 155.0 155.0	79.1 77.9 76.6 75.3 74.1 72.8 71.5 66.2 64.8 63.4 62.0 69.1 57.5 56.0	8,790* 8,550* 8,310* 8,060* 7,840* 7,450* 7,270* 6,940* 6,790* 6,480* 5,900* 5,400* 4,470* 4,030*
Fadius (ft) 50.0 65.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 105.0 115.0 125.0 135.0 140.0 145.0 150.0	Room Angle (deg.) 79.4 78.0 76.7 75.4 74.0 72.6 69.9 66.6 64.1 62.7 61.1 59.6 55.0 55.0 50.0	Rated Load (lbs) 19,440* 19,020* 18,620* 18,620* 17,870* 16,420* 14,850 13,490 12,270 11,150 10,200 9,340 8,570 7,200 6,630 6,040* 5,460* 4,890* 4,380* 3,920*	60.0 65.0 70.0 88.0 99.0 100.0 115.0 125.0 130.0 140.0 145.0 145.0	79.0 77.7 76.3 74.9 73.5 72.1 70.7 66.3 64.8 63.2 66.1.7 60.1 58.5 56.9 55.2 53.5	Rated Load (lbs) 18,250* 17,870* 17,520* 17,150 15,520 14,080 12,850 10,670 9,780 8,970 8,970 8,200 7,530 6,940 6,370 5,790* 5,220* 4,690*	Fadius (ft) 55.0 60.0 70.0 75.0 80.0 85.0 90.0 95.0 110.0 125.0 130.0 135.0 140.0 155.0	70.2 77.9 76.6 75.4 74.0 72.7 71.4 70.1 66.7 66.3 66.0 64.6 63.1 61.7 60.3 58.8 57.4 55.8 55.4 55.4 51.0	Pated Load (lbs) 18,950* 18,560* 18,160* 17,810* 16,710 15,120 13,730 12,520 11,370 10,420 9,540 8,770 8,020 7,380 6,790 6,190* 5,640* 5,070* 4,580* 4,120* 3,680*	65.0 70.0 75.0 99.0 100.0 115.0 125.0 135.0 140.0 145.0 150.	79.6 78.3 76.9 75.6 74.3 72.9 71.5 70.1 68.7 67.3 65.8 64.9 55.0 55.0	15,100* 14,660* 14,190* 13,800* 13,420* 13,090* 12,050 11,040 10,140 9,320 6,550 6,080* 5,510* 4,980* 4,490*	Radius (ft) 60.0 65.0 70.0 75.0 85.0 90.0 95.0 100.0 115.0 125.0 135.0 140.0 145.0 155.0	78.9 77.7 76.5 75.2 73.9 72.7 71.4 70.1 66.8 67.5 66.2 64.8 63.5 62.1 60.8 59.4 55.0 53.5	Pated Load (lbs) 18,470* 18,070* 17,700* 16,930 15,320 11,550 10,580 9,720 8,920 8,170 7,510 6,900* 6,300* 5,750* 5,200* 4,710* 4,250* 3,810*	75.0 80.0 95.0 100.0 125.0 135.0 140.0 155.0 160	78.7 76.2 74.9 73.5 72.2 70.9 69.6 66.7 65.3 63.9 62.5 60.9 59.5 57.9 56.4 54.7	11,040* 10,730* 10,420* 10,160* 9,630* 9,410* 9,190* 8,810 8,130 6,870* 6,300* 5,730* 5,230* 4,730* 4,290* 3,830*	Radius (ft) 60.0 65.0 75.0 80.0 85.0 90.0 105.0 115.0 125.0 135.0 140.0 155.0 155.0	79.7 78.5 77.4 76.1 74.9 78.5 77.6 66.3 67.6 66.3 63.7 62.4 61.1 59.7 58.3 55.5 54.0	Rated Load (lbs) 18,000* 17,960* 17,590* 17,590* 15,470 14,060 12,830 11,680 10,710 9,830 9,030 8,260* 7,580* 6,940* 6,370* 5,820* 5,260* 4,780* 4,340* 3,900* 3,480*	80.0 85.0 99.0 95.0 100.0 115.0 125.0 135.0 140.0 145.0 150.0 150.0 160.0 160.0	79.1 77.9 76.6 75.3 74.1 72.8 71.5 66.2 64.8 63.4 62.0 69.1 57.5 56.0	8,790* 8,550* 8,310* 8,060* 7,840* 7,640* 7,450* 7,900* 6,940* 4,930* 4,930* 4,930* 4,930* 3,610*

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

Capacities based on factors other than machine stability such as structural competence are shown by asterisk * in the charts.

Refer to notes on page 20.



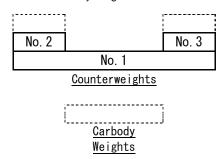
Supplemental Data - Clamshell

- Rated loads included in the charts are the maximum allowable freely suspended loads at a given boom length, boom angle and load radius, and have been determined for the machine standing level on firm supporting surface under ideal operating conditions. The user must limit or de-rate rated loads to allow for adverse conditions (such as soft or uneven ground, out-of-level conditions, wind, side loads, pendulum action, jerking or sudden stopping of loads, inexperience of personnel, multiple machine lifts, and traveling with a load).
- Rated loads do not exceed 66% of minimum tipping loads. Rated loads based on factors other than machine stability such as structural competence are shown by asterisk * in the charts.
- The machine must be reeved and set-up as stated in the operation manual and all the instruction manuals if these manuals are missing, obtain replacements.
 - Machine shall be positively secured to prevent shifting.
 - Boom backstops are required for all boom length.
 - Gantry must be fully raised position for all operations.
 - Crawlers must be fully extended and be locked in position.
 - Must have 43,600 lbs (2) Counterweights installed, and without carbody weights.
- 4. Do not attempt to lift where no radius on load is listed as crane may tip or collapse.
- Attempting to lift more than rated loads may cause machine to tip or collapse. Do not tip machine to determine rated loads.
- Weight of hooks, hook blocks, slings and other lifting devices are a part of the total load. Their total weight must be subtracted from the rated load to obtain the weight that can be lifted.
- The boom should be erected over the front of the crawlers, not laterally.
- 8. Least stable position is over the side.
- Maximum hoist load for number of reeving parts of line for hoist rope.

Maximum Load for Main Boom

	u 200
No. of Parts of line	1
Maximum Loads (lbs)	22,000

- Rated loads listed apply only to the machine as originally manufactured and designed by KOBELCO CRANES CO., LTD. Modifications to this machine or use of equipment oth than that specified can reduce operating capacity.
- Assembling the Counterweight
 43,600 lbs counterweight (No. 1 ~ No. 3)
 Without Carbody weights



Operation of this equipment in excess of rated loads or disregard of instruction voids the warranty.

Clamshell

Boom:

Welded lattice construction using tubular, high-tensile steel chords with pin connections between each section.

Basic boom length: 40 ft (12.2 m) Max. boom length: 120 ft (36.6 m)

Limit on clamshell bucket weight: 4,600 lbs (2,100 kg) Optional tagline: Hydraulic operated type and spring type.

Boom Component Chart:

Boom length ft (m)	Boom arrangement
40 (12.2)	Base-Tip
50 (15.2)	Base-A-Tip
60 (18.3)	Base-A-A-Tip, Base-B-Tip
70 (21.3)	Base-A-B-Tip
80 (24.4)	Base-A-A-B-Tip, Base-B-B-Tip
90 (27.4)	Base-A-C-Tip
100 (30.5)	Base-A-A-B-B-Tip, Base-A-A-C-Tip
110 (33.5)	Base-A-B-C-Tip
120 (36.6)	Base-A-A-B-C-Tip, Base-B-B-C-Tip

Base = Boom Base

A = 10 ft (3.05 m)

B = 20 ft (6.10 m)

C = 40 ft (12.2 m)

 $\mathsf{Tip} = \mathsf{Boom}\,\mathsf{Tip}$

- 1. Figures represent maximum allowable capacity, and assume level, ground and ideal working conditions.
- 2. Capacities are calculated at 66% of the minimum tipping loads.
- 3. Capacities are maximum recommended by PCSA Standard #4. Allowances must be made by the user for such unfavorable conditions as a sort of uneven supporting surface, rapid cycle operations, or bucket.
- 4. The combined weight of the bucket and load must not exceed these capacities.

3 Counterweights (43,600 lbs) - Without Carbody weights - Crawlers in extended position.

40	o' Boo	m	50)' Boo	m		60)' Boo	m
Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (Ibs)	Load Radius (ft)	Boom Angle (deg.)		-	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0	63.7 60.5 57.1 53.5 49.8 45.9 41.7 37.0 31.8 25.7	22,000 * 22,000 * 22,000 * 22,000 * 22,000 * 21,400 * 20,200 * 19,200 * 18,200 *	26.0 28.0 30.0 32.0 34.0 36.0 40.0 42.0 44.0 48.0	64.3 61.7 59.0 56.3 53.5 50.5 47.4 44.2 40.7 37.0 32.9 28.3	22,0 22,0 21,4 20,2 19,2 17,3 16,5	000 * 000 * 000 * 000 * 000 * 000 * 000 * 000 * 000 * 000 *	30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 50.0 54.0 56.0 58.0	64.6 62.5 60.3 58.1 55.8 53.4 51.0 48.4 45.8 43.0 40.1 37.0 33.6 29.9 25.7	22,000 * 22,000 * 21,400 * 20,200 * 19,200 * 18,200 * 17,300 * 16,500 * 15,800 * 14,600 * 14,000 * 13,500 * 13,500 * 12,500 *

Refer to notes on page 29.

Clamshell

3 Counterweights (43,600 lbs) - Without Carbody weights - Crawlers in extended position.

70)' Boo	m	80)' Boo	m	90)' Boo	m
Load	Boom	360°	Load	Boom	360°	Load	Boom	360°
Radius		Rated Load	Radius	Angle	Rated Load	Radius	Angle	Rated Load
(ft)	(deg.)	(lbs)	(ft)	(deg.)	(lbs)	(ft)	(deg.)	(lbs)
34.0	64.9	21,400 *	38.0	65.1	19,200 *	42.0	65.2	17,300 *
36.0	63.1	20,200 *	40.0	63.5	18,200 *	44.0	63.8	16,500 *
38.0	61.2	19,200 *	42.0	61.9	17,300 *	46.0	62.4	15,800 *
40.0 42.0	59.3 57.4	18,200 * 17,300 *	44.0 46.0	60.2 58.6	16,500 * 15,800 *	48.0 50.0	60.9 59.5	15,200 * 14,600 *
44.0	55.4	16,500 *	48.0	56.9	15,200 *	52.0	58.0	14,000 *
46.0	53.4	15,800 *	50.0	55.1	14,600 *	54.0	56.4	13,500 *
48.0	51.3	15,200 *	52.0	53.3	14,000 *	56.0	54.9	13,000 *
50.0 52.0	49.1 46.9	14,600 * 14,000 *	54.0 56.0	51.5 49.6	13,500 * 13,000 *	58.0 60.0	53.3 51.7	12,500 * 12,100 *
54.0	44.6	13,500 *	58.0	47.7	12,500 *	62.0	50.0	11,700 *
56.0	42.2	13,000 *	60.0	45.7	12,100 *	64.0	48.3	11,400 *
58.0	39.6	12,500 *	62.0	43.7	11,700 *	66.0	46.6	11,000 *
60.0 62.0	37.0 34.1	12,100 * 11,700 *	64.0 66.0	41.5 39.3	11,400 * 11,000 *	68.0 70.0	44.8 43.0	10,700 * 10,400 *
64.0	31.0	11,400 *	68.0	37.0	10,700 *	72.0	41.0	10,100 *
66.0	27.6	11,000 *	70.0	34.5	10,400 *	74.0	39.0	9,700
			72.0	31.8	10,100 *	76.0	36.9	9,200
			74.0 76.0	28.9 25.7	9,800 * 9,400 *	78.0 80.0	34.7 32.4	9,000 8,500
			70.0	25.7), 1 00	82.0	29.9	8,300
						84.0	27.2	7,900
10	0' Boo	om	11	0' Boo	om	12	0' Boo	om
10 Load	Boom	360°	Load	Boom	360°	Load	Boom	360°
Load Radius	Boom Angle	360° Rated Load	Load Radius	Boom Angle	360° Rated Load	Load Radius	Boom Angle	360° Rated Load
Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
Load Radius (ft) 46.0	Boom Angle (deg.) 65.4	360° Rated Load (lbs) 15,800 *	Load Radius (ft) 56.0	Boom Angle (deg.)	360° Rated Load (lbs) 11,900 *	Load Radius (ft) 56.0	Boom Angle (deg.) 64.5	360° Rated Load (lbs) 11,400 *
Load Radius (ft) 46.0 48.0	Boom Angle (deg.) 65.4 64.1	360° Rated Load (lbs) 15,800 * 15,200 *	Load Radius (ft) 56.0 58.0	Boom Angle (deg.) 62.0 60.8	360° Rated Load (lbs) 11,900 * 11,700 *	Load Radius (ft) 56.0 58.0	Boom Angle (deg.) 64.5 63.4	360° Rated Load (lbs) 11,400 * 11,300 *
Load Radius (ft) 46.0 48.0 50.0 52.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5	360° Rated Load (lbs) 15,800 * 15,200 * 14,600 * 14,000 *	Load Radius (ft) 56.0 58.0 60.0 62.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3	360° Rated Load (lbs) 11,900 * 11,700 * 11,600 * 11,300 *	Load Radius (ft) 56.0 58.0 60.0 62.0	Boom Angle (deg.) 64.5 63.4 62.3 61.3	360° Rated Load (lbs) 11,400 * 11,300 * 11,200 * 11,000 *
Load Radius (ft) 46.0 48.0 50.0 52.0 54.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5 60.2	360° Rated Load (lbs) 15,800 * 15,200 * 14,600 * 14,000 * 13,500 *	Load Radius (ft) 56.0 58.0 60.0 62.0 64.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3 57.1	360 Rated Load (lbs) 11,900 * 11,700 * 11,600 * 11,300 * 11,100 *	Load Radius (ft) 56.0 58.0 60.0 62.0 64.0	Boom Angle (deg.) 64.5 63.4 62.3 61.3 60.2	360 Rated Load (lbs) 11,400 * 11,300 * 11,200 * 11,000 * 10,800 *
Load Radius (ft) 46.0 48.0 50.0 52.0 54.0 56.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5 60.2 58.8	360° Rated Load (lbs) 15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 13,000 *	Load Radius (ft) 56.0 58.0 60.0 62.0 64.0 66.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3 57.1 55.8	360 Rated Load (lbs) 11,900 * 11,700 * 11,600 * 11,300 * 11,100 * 10,800 *	Load Radius (ft) 56.0 58.0 60.0 62.0 64.0 66.0	Boom Angle (deg.) 64.5 63.4 62.3 61.3 60.2 59.0	360 Rated Load (lbs) 11,400 * 11,300 * 11,200 * 11,000 * 10,800 * 10,600 *
Load Radius (ft) 46.0 48.0 50.0 52.0 54.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5 60.2 58.8 57.5 56.1	360° Rated Load (lbs) 15,800 * 15,200 * 14,600 * 14,000 * 13,500 *	Load Radius (ft) 56.0 58.0 60.0 62.0 64.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3 57.1 55.8 54.6 53.3	360 Rated Load (lbs) 11,900 * 11,700 * 11,600 * 11,300 * 11,100 *	Load Radius (ft) 56.0 58.0 60.0 62.0 64.0	Boom Angle (deg.) 64.5 63.4 62.3 61.3 60.2 59.0 57.9 56.8	360 Rated Load (lbs) 11,400 * 11,300 * 11,200 * 11,000 * 10,800 *
Load Radius (ft) 46.0 48.0 50.0 52.0 54.0 56.0 58.0 60.0 62.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5 60.2 58.8 57.5 56.1 54.7	360° Rated Load (lbs) 15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 12,500 * 12,100 * 11,700 *	Load Radius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 68.0 70.0 72.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3 57.1 55.8 54.6 53.3 52.0	360° Rated Load (lbs) 11,900 * 11,700 * 11,600 * 11,300 * 11,100 * 10,800 * 10,400 * 10,100 9,700	Load Radius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 68.0 70.0 72.0	Boom Angle (deg.) 64.5 63.4 62.3 61.3 60.2 59.0 57.9 56.8 55.6	360° Rated Load (lbs) 11,400 * 11,300 * 11,200 * 10,800 * 10,600 * 10,200 * 9,900 9,500
Load Radius (ft) 46.0 48.0 50.0 52.0 54.0 56.0 60.0 62.0 64.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5 60.2 58.8 57.5 56.1 54.7 53.3	360° Rated Load (lbs) 15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 12,500 * 12,100 * 11,700 * 11,400 *	Load Radius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 68.0 70.0 72.0 74.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3 57.1 55.8 54.6 53.3 52.0 50.6	360° Rated Load (lbs) 11,900 * 11,700 * 11,600 * 11,300 * 11,100 * 10,800 * 10,400 * 10,100 9,700 9,300	Load Radius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 68.0 70.0 72.0 74.0	Boom Angle (deg.) 64.5 63.4 62.3 61.3 60.2 59.0 57.9 56.8 55.6 54.5	360° Rated Load (lbs) 11,400 * 11,300 * 11,200 * 11,000 * 10,800 * 10,600 * 10,200 * 9,900 9,500 9,100
Load Radius (ft) 46.0 48.0 50.0 52.0 54.0 56.0 58.0 60.0 62.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5 60.2 58.8 57.5 56.1 54.7	360° Rated Load (lbs) 15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 12,500 * 12,100 * 11,700 *	Load Radius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 68.0 70.0 72.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3 57.1 55.8 54.6 53.3 52.0	360° Rated Load (lbs) 11,900 * 11,700 * 11,600 * 11,300 * 11,100 * 10,800 * 10,400 * 10,100 9,700	Load Radius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 68.0 70.0 72.0	Boom Angle (deg.) 64.5 63.4 62.3 61.3 60.2 59.0 57.9 56.8 55.6 54.5 53.3	360° Rated Load (lbs) 11,400 * 11,300 * 11,200 * 10,800 * 10,600 * 10,200 * 9,900 9,500
Load Radius (ft) 46.0 48.0 50.0 52.0 54.0 56.0 60.0 62.0 64.0 66.0 68.0 70.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5 60.2 58.8 57.5 56.1 54.7 53.3 51.8 50.4 48.8	360° Rated Load (lbs) 15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 12,500 * 12,100 * 11,700 * 11,400 * 10,700 * 10,300	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 70.0 74.0 76.0 78.0 80.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3 57.1 55.8 54.6 53.3 52.0 50.6 49.2 47.8 46.4	360 Rated Load (lbs) 11,900 * 11,700 * 11,600 * 11,300 * 11,100 * 10,400 * 10,100 9,700 9,300 8,900 8,500 8,200	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 70.0 74.0 76.0 78.0 80.0	Boom Angle (deg.) 64.5 63.4 62.3 61.3 60.2 59.0 57.9 56.8 55.6 54.5 53.3 52.1 50.8	360 Rated Load (lbs) 11,400 * 11,300 * 11,200 * 11,000 * 10,800 * 10,600 * 10,200 * 9,900 9,500 9,100 8,800 8,400 8,100
Load Radius (ft) 46.0 48.0 50.0 52.0 54.0 56.0 60.0 62.0 64.0 66.0 66.0 70.0 72.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5 60.2 58.8 57.5 56.1 54.7 53.3 51.8 50.4 48.8 47.3	360° Rated Load (lbs) 15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 12,500 * 12,100 * 11,700 * 11,400 * 11,700 * 11,700 * 10,700 * 10,300 9,900	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 70.0 74.0 76.0 78.0 80.0 82.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3 57.1 55.8 54.6 53.3 52.0 50.6 49.2 47.8 46.4 45.0	360 Rated Load (lbs) 11,900 * 11,700 * 11,600 * 11,300 * 11,100 * 10,400 * 10,100 9,700 9,300 8,900 8,500 8,200 7,900	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 70.0 74.0 76.0 78.0 80.0 82.0	Boom Angle (deg.) 64.5 63.4 62.3 61.3 60.2 59.0 57.9 56.8 55.6 54.5 53.3 52.1 50.8 49.6	360 Rated Load (lbs) 11,400 * 11,300 * 11,200 * 11,000 * 10,800 * 10,600 * 10,200 * 9,900 9,500 9,100 8,800 8,400 8,100 7,700
Load Radius (ft) 46.0 48.0 50.0 54.0 56.0 58.0 60.0 62.0 64.0 66.0 68.0 70.0 72.0 74.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5 60.2 58.8 57.5 56.1 54.7 53.3 51.8 50.4 48.8 47.3 45.7	360° Rated Load (lbs) 15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 12,500 * 12,100 * 11,700 * 11,400 * 11,000 * 10,700 * 10,300 9,900 9,400	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 70.0 72.0 74.0 76.0 78.0 80.0 82.0 84.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3 57.1 55.8 54.6 53.3 52.0 60.6 49.2 47.8 46.4 45.0 43.4	360 Rated Load (lbs) 11,900 * 11,700 * 11,600 * 11,300 * 11,100 * 10,400 * 10,100 9,700 9,300 8,900 8,500 8,200 7,900 7,500	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 70.0 72.0 74.0 76.0 78.0 80.0 82.0 84.0	Boom Angle (deg.) 64.5 63.4 62.3 61.3 60.2 59.0 57.9 56.8 55.6 54.5 53.3 52.1 50.8 49.6 48.3	360 Rated Load (lbs) 11,400 * 11,300 * 11,200 * 11,000 * 10,800 * 10,600 * 10,200 * 9,900 9,500 9,100 8,800 8,400 8,100 7,700 7,400
Load Radius (ft) 46.0 48.0 50.0 52.0 54.0 56.0 60.0 62.0 64.0 66.0 66.0 70.0 72.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5 60.2 58.8 57.5 56.1 54.7 53.3 51.8 50.4 48.8 47.3 45.7 44.1	360° Rated Load (lbs) 15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 12,500 * 12,100 * 11,700 * 11,400 * 11,700 * 11,700 * 10,700 * 10,300 9,900	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 70.0 74.0 76.0 78.0 80.0 82.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3 57.1 55.8 54.6 53.3 52.0 50.6 49.2 47.8 46.4 45.0 43.4 41.9 40.3	360° Rated Load (lbs) 11,900 * 11,700 * 11,600 * 11,300 * 11,100 * 10,800 * 10,400 * 10,100 9,700 9,300 8,900 8,500 8,200 7,900 7,500 7,200 7,000	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 70.0 72.0 74.0 76.0 78.0 80.0 82.0 84.0 86.0 88.0	Boom Angle (deg.) 64.5 63.4 62.3 61.3 60.2 59.0 57.9 56.8 55.6 54.5 53.3 52.1 50.8 49.6 48.3 47.0 45.7	360° Rated Load (lbs) 11,400 * 11,300 * 11,200 * 11,000 * 10,800 * 10,600 * 10,200 * 9,500 9,500 9,100 8,800 8,400 8,100 7,700 7,400 7,100 6,800
Load Radius (ft) 46.0 48.0 50.0 52.0 54.0 56.0 60.0 66.0 66.0 66.0 70.0 72.0 74.0 76.0 78.0 80.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5 60.2 58.8 57.5 56.1 54.7 53.3 51.8 47.3 45.7 44.1 42.4 40.6	360° Rated Load (lbs) 15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 13,000 * 12,500 * 12,100 * 11,700 * 11,400 * 11,000 * 10,300 9,900 9,400 9,000 8,800 8,300	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 70.0 72.0 74.0 76.0 78.0 80.0 82.0 84.0 86.0 88.0 90.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3 57.1 55.8 54.6 53.3 52.0 50.6 49.2 47.8 46.4 45.0 43.4 41.9 40.3 38.6	360° Rated Load (lbs) 11,900 * 11,700 * 11,600 * 11,300 * 11,100 * 10,800 * 10,400 * 10,400 * 10,100 9,700 9,300 8,900 8,500 8,200 7,900 7,500 7,200 7,000 6,800	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 70.0 72.0 74.0 76.0 78.0 80.0 82.0 84.0 86.0 88.0 90.0	Boom Angle (deg.) 64.5 63.4 62.3 61.3 60.2 59.0 57.9 56.8 55.6 54.5 53.3 52.1 50.8 49.6 48.3 47.0 45.7 44.3	360° Rated Load (lbs) 11,400 * 11,300 * 11,200 * 11,000 * 10,600 * 10,600 * 10,200 * 9,500 9,500 9,100 8,800 8,400 8,100 7,700 7,400 7,100 6,800 6,600
Load Radius (ft) 46.0 48.0 50.0 52.0 54.0 56.0 60.0 62.0 64.0 66.0 70.0 72.0 74.0 78.0 80.0 82.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5 60.2 58.8 57.5 56.1 54.7 53.3 51.8 50.4 48.8 47.3 45.7 44.1 42.4 40.6 38.8	360° Rated Load (lbs) 15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 13,000 * 12,500 * 12,100 * 11,700 * 11,400 * 11,700 * 10,700 * 10,300 9,900 9,400 9,000 8,800 8,300 8,100	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 70.0 72.0 74.0 78.0 80.0 82.0 84.0 86.0 88.0 90.0 92.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3 57.1 55.8 54.6 53.3 52.0 50.6 49.2 47.8 46.4 45.0 43.4 41.9 40.3 38.6 36.9	360 Rated Load (lbs) 11,900 * 11,700 * 11,600 * 11,600 * 11,100 * 10,800 * 10,400 * 10,400 * 10,100 9,700 9,300 8,900 8,500 8,200 7,900 7,500 7,200 7,000 6,800 6,600	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 70.0 72.0 74.0 78.0 80.0 82.0 84.0 86.0 88.0 90.0 92.0	Boom Angle (deg.) 64.5 63.4 62.3 61.3 60.2 59.0 57.9 56.8 55.6 54.5 53.3 52.1 50.8 49.6 48.3 47.0 45.7 44.3 42.9	360° Rated Load (lbs) 11,400 * 11,300 * 11,200 * 11,000 * 10,600 * 10,200 * 9,500 9,100 8,800 8,400 8,100 7,700 7,400 7,100 6,800 6,600 6,400
Load Radius (ft) 46.0 48.0 50.0 52.0 54.0 56.0 60.0 66.0 66.0 66.0 70.0 72.0 74.0 76.0 78.0 80.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5 60.2 58.8 57.5 56.1 54.7 53.3 51.8 47.3 45.7 44.1 42.4 40.6	360° Rated Load (lbs) 15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 13,000 * 12,500 * 12,100 * 11,700 * 11,400 * 11,000 * 10,300 9,900 9,400 9,000 8,800 8,300	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 70.0 72.0 74.0 76.0 78.0 80.0 82.0 84.0 86.0 88.0 90.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3 57.1 55.8 54.6 53.3 52.0 50.6 49.2 47.8 46.4 45.0 43.4 41.9 40.3 38.6	360° Rated Load (lbs) 11,900 * 11,700 * 11,600 * 11,300 * 11,100 * 10,800 * 10,400 * 10,400 * 10,100 9,700 9,300 8,900 8,500 8,200 7,900 7,500 7,200 7,000 6,800	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 70.0 72.0 74.0 76.0 78.0 80.0 82.0 84.0 86.0 88.0 90.0	Boom Angle (deg.) 64.5 63.4 62.3 61.3 60.2 59.0 57.9 56.8 55.6 54.5 53.3 52.1 50.8 49.6 48.3 47.0 45.7 44.3	360° Rated Load (lbs) 11,400 * 11,300 * 11,200 * 11,000 * 10,600 * 10,600 * 10,200 * 9,500 9,500 9,100 8,800 8,400 8,100 7,700 7,400 7,100 6,800 6,600
Load Radius (ft) 46.0 48.0 50.0 52.0 54.0 56.0 60.0 62.0 64.0 66.0 70.0 72.0 74.0 78.0 80.0 82.0 84.0 88.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5 60.2 58.8 57.5 56.1 54.7 53.3 51.8 47.3 45.7 44.1 42.4 40.6 38.8 36.9 35.0 32.9	360° Rated Load (lbs) 15,800 * 15,200 * 14,600 * 14,600 * 14,000 * 13,500 * 12,500 * 12,100 * 11,700 * 11,700 * 11,700 * 10,700 * 10,300 9,900 9,400 9,000 8,800 8,300 8,100 7,700 7,400 7,200	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 70.0 74.0 76.0 78.0 82.0 84.0 86.0 90.0 92.0 94.0 96.0 98.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3 57.1 55.8 54.6 53.3 52.0 50.6 49.2 47.8 46.4 45.0 43.4 41.9 40.3 38.6 36.9 35.1 33.3 31.3	360 Rated Load (lbs) 11,900 * 11,700 * 11,600 * 11,300 * 11,100 * 10,400 * 10,400 * 10,100 9,700 9,300 8,900 8,500 8,200 7,900 7,500 7,200 7,000 6,800 6,600 6,400 6,200 5,900	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 70.0 74.0 76.0 78.0 80.0 82.0 84.0 86.0 90.0 92.0 94.0 96.0 98.0	Boom Angle (deg.) 64.5 63.4 62.3 61.3 60.2 59.0 57.9 56.8 55.6 54.5 53.3 47.0 45.7 44.3 42.9 41.5 40.0 38.5	360 Rated Load (lbs) 11,400 * 11,300 * 11,200 * 11,000 * 10,800 * 10,200 * 9,900 9,500 9,100 8,800 8,400 8,100 7,700 7,400 7,100 6,800 6,600 6,400 6,200 6,000 5,700
Load Radius (ft) 46.0 48.0 50.0 52.0 54.0 58.0 60.0 62.0 64.0 66.0 72.0 74.0 76.0 78.0 80.0 82.0 84.0 86.0 88.0 90.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5 60.2 58.8 57.5 56.1 54.7 53.3 51.8 47.3 45.7 44.1 42.4 40.6 38.8 36.9 35.0 32.9 30.7	360° Rated Load (lbs) 15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 12,500 * 12,100 * 11,700 * 11,700 * 11,400 * 11,000 * 10,700 * 10,300 9,900 9,400 9,000 8,800 8,300 8,100 7,700 7,400 7,200 7,000	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 70.0 74.0 76.0 78.0 82.0 84.0 86.0 88.0 90.0 92.0 94.0 96.0 98.0 100.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3 57.1 55.8 54.6 53.3 52.0 50.6 49.2 47.8 46.4 45.0 43.4 41.9 40.3 38.6 36.9 35.1 33.3 31.3 29.2	360° Rated Load (lbs) 11,900 * 11,700 * 11,700 * 11,600 * 11,300 * 11,100 * 10,400 * 10,100 9,700 9,300 8,900 8,500 8,200 7,900 7,500 7,200 7,000 6,800 6,600 6,400 6,200 5,900 5,700	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 70.0 74.0 76.0 78.0 80.0 82.0 84.0 86.0 88.0 90.0 92.0 94.0 96.0 98.0 100.0	Boom Angle (deg.) 64.5 63.4 62.3 61.3 60.2 59.0 57.9 56.8 55.6 54.5 53.3 52.1 50.8 49.6 48.3 47.0 45.7 44.3 42.9 41.5 40.0 38.5 36.9	360° Rated Load (lbs) 11,400 * 11,300 * 11,200 * 11,000 * 10,800 * 10,600 * 10,200 * 9,500 9,100 8,800 8,400 8,100 7,700 7,400 7,100 6,800 6,600 6,400 6,200 6,000 5,700 5,500
Load Radius (ft) 46.0 48.0 50.0 52.0 54.0 58.0 60.0 62.0 64.0 66.0 72.0 74.0 78.0 80.0 82.0 84.0 80.0 82.0 84.0 90.0 92.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5 60.2 58.8 57.5 56.1 54.7 53.3 51.8 50.4 48.8 47.3 45.7 44.1 42.4 40.6 38.8 36.9 35.9 30.7 28.3	360° Rated Load (lbs) 15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 12,500 * 12,100 * 11,700 * 11,700 * 11,400 * 10,700 * 10,300 9,900 9,400 9,900 8,800 8,300 8,100 7,700 7,400 7,200 7,000 6,800	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 70.0 74.0 76.0 78.0 80.0 82.0 84.0 86.0 99.0 99.0 99.0 99.0 91.0 100.0 102.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3 57.1 55.8 54.6 53.3 52.0 50.6 49.2 47.8 46.4 45.0 43.4 41.9 40.3 38.6 36.9 35.1 33.3 31.3 29.2 27.0	360° Rated Load (lbs) 11,900 * 11,700 * 11,700 * 11,600 * 11,300 * 11,100 * 10,400 * 10,100 9,700 9,300 8,900 8,500 8,200 7,900 7,500 7,200 7,000 6,800 6,600 6,400 6,200 5,900 5,700 5,500	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 70.0 74.0 76.0 78.0 80.0 82.0 84.0 86.0 99.0 99.0 99.0 91.0 100.0 102.0	Boom Angle (deg.) 64.5 63.4 62.3 61.3 60.2 59.0 57.9 56.8 55.6 54.5 53.3 52.1 50.8 49.6 48.3 47.0 45.7 44.3 42.9 41.5 40.0 38.5 36.9 35.3	360° Rated Load (lbs) 11,400 * 11,300 * 11,200 * 11,000 * 10,800 * 10,600 * 10,200 * 9,900 9,100 8,800 8,400 8,100 7,700 7,400 7,100 6,800 6,600 6,400 6,200 6,000 5,700 5,500 5,300
Load Radius (ft) 46.0 48.0 50.0 52.0 54.0 58.0 60.0 62.0 64.0 66.0 72.0 74.0 76.0 78.0 80.0 82.0 84.0 86.0 88.0 90.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5 60.2 58.8 57.5 56.1 54.7 53.3 51.8 47.3 45.7 44.1 42.4 40.6 38.8 36.9 35.0 32.9 30.7	360° Rated Load (lbs) 15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 12,500 * 12,100 * 11,700 * 11,700 * 11,400 * 11,000 * 10,700 * 10,300 9,900 9,400 9,000 8,800 8,300 8,100 7,700 7,400 7,200 7,000	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 70.0 74.0 76.0 78.0 82.0 84.0 86.0 88.0 90.0 92.0 94.0 96.0 98.0 100.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3 57.1 55.8 54.6 53.3 52.0 50.6 49.2 47.8 46.4 45.0 43.4 41.9 40.3 38.6 36.9 35.1 33.3 31.3 29.2	360° Rated Load (lbs) 11,900 * 11,700 * 11,700 * 11,600 * 11,300 * 11,100 * 10,400 * 10,100 9,700 9,300 8,900 8,500 8,200 7,900 7,500 7,200 7,000 6,800 6,600 6,400 6,200 5,900 5,700	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 70.0 74.0 76.0 78.0 80.0 82.0 84.0 86.0 88.0 90.0 92.0 94.0 96.0 98.0 100.0	Boom Angle (deg.) 64.5 63.4 62.3 61.3 60.2 59.0 57.9 56.8 55.6 54.5 53.3 52.1 50.8 49.6 48.3 47.0 45.7 44.3 42.9 41.5 40.0 38.5 36.9	360° Rated Load (lbs) 11,400 * 11,300 * 11,200 * 11,000 * 10,800 * 10,600 * 10,200 * 9,500 9,100 8,800 8,400 8,100 7,700 7,400 7,100 6,800 6,600 6,400 6,200 6,000 5,700 5,500
Load Radius (ft) 46.0 48.0 50.0 52.0 54.0 58.0 60.0 62.0 64.0 66.0 72.0 74.0 78.0 80.0 82.0 84.0 80.0 82.0 84.0 90.0 92.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5 60.2 58.8 57.5 56.1 54.7 53.3 51.8 50.4 48.8 47.3 45.7 44.1 42.4 40.6 38.8 36.9 35.9 30.7 28.3	360° Rated Load (lbs) 15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 12,500 * 12,100 * 11,700 * 11,700 * 11,400 * 10,700 * 10,300 9,900 9,400 9,900 8,800 8,300 8,100 7,700 7,400 7,200 7,000 6,800	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 70.0 74.0 76.0 78.0 80.0 82.0 84.0 86.0 99.0 99.0 99.0 99.0 91.0 100.0 102.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3 57.1 55.8 54.6 53.3 52.0 50.6 49.2 47.8 46.4 45.0 43.4 41.9 40.3 38.6 36.9 35.1 33.3 31.3 29.2 27.0	360° Rated Load (lbs) 11,900 * 11,700 * 11,700 * 11,600 * 11,300 * 11,100 * 10,400 * 10,100 9,700 9,300 8,900 8,500 8,200 7,900 7,500 7,200 7,000 6,800 6,600 6,400 6,200 5,900 5,700 5,500	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 70.0 72.0 74.0 76.0 78.0 80.0 82.0 84.0 86.0 99.0 99.0 99.0 91.0 96.0 98.0 100.0 102.0	Boom Angle (deg.) 64.5 63.4 62.3 61.3 60.2 59.0 55.6 54.5 53.3 52.1 50.8 49.6 48.3 47.0 45.7 44.3 42.9 41.5 40.0 38.5 36.9 35.3 33.6	360° Rated Load (lbs) 11,400 * 11,300 * 11,200 * 11,000 * 10,600 * 10,600 * 10,200 * 9,500 9,500 9,100 8,800 8,400 8,100 7,700 7,400 7,100 6,800 6,600 6,400 6,200 6,000 5,700 5,500 5,300 5,100

Refer to notes on page 29.

Supplemental Data - Barge

- 1. Rated loads included in the charts are the maximum allowable freely suspended loads at a given boom length, boom angle and load radius, and have been determined for the machine standing level on firm supporting surface under ideal operating conditions. The user must limit or de-rate rated loads to allow for adverse conditions (such as soft or uneven ground, out-of-level conditions, wind, side loads, pendulum action, jerking or sudden stopping of loads, inexperience of personnel, multiple machine lifts, and traveling with a load).
- 2. Rated loads do not exceed 75% of minimum tipping loads. Rated loads based on factors other than machine stability such as structural competence are shown by asterisk * in the charts.
- 3. The machine must be reeved and set-up as stated in the operation manual and all the instruction manuals if these manuals are missing, obtain replacements.
 - Machine shall be positively secured to prevent shifting.
 - Boom backstops are required for all boom length.
 - Gantry must be fully raised position for all operations.
 - Crawlers must be fully extended and be locked in position.
 - Must have 69,000 lbs (5) Counterweights fully installed.
 - Must have 31,700 lbs (2) Carbody weights fully installed.
- 4. Do not attempt to lift where no radius on load is listed as crane may tip or collapse.
- 5. Attempting to lift more than rated loads may cause machine to tip or collapse. Do not tip machine to determine rated loads.
- 6. Weight of hooks, hook blocks, slings and other lifting devices are a part of the total load. Their total weight must be subtracted from the rated load to obtain the weight that can be lifted.
- 7. When lifting over boom point with jib or auxiliary sheave, rated loads for the boom must be deducted as shown below.

Jib Length	Aux Sheave	30 ft	40 ft	50 ft	60 ft
Deduct (lbs)	430		Not Ap	plicable	

When auxiliary sheave is used for 8 or 7 reeving parts of line, it is not required to deduct 430 lbs from rated loads.

- 8. To install the jib is prohibited when the machine is on a barge.
- 9. The total load that can be lifted over an auxiliary sheave is the value for 430 lbs deducted from rated load for the boom without auxiliary sheave, but it should not exceed 24,000 lbs.

- 10. Boom lengths that can attach auxiliary sheave are from 40 ft (12.2 m) to 190 ft (57.9 m).
- 11. The boom should be erected over the front of the crawlers, not laterally.
- 12. Least stable position is over the side.
- 13. Maximum hoist load for number of reeving parts of line for hoist rope.

Maximum Load for Main Boom

No. of Parts of line	1	2	3	4	5
Maximum Loads (lbs)	25,200	50,400	75,600	100,800	126,000

No. of Parts of line	6	7	8
Maximum Loads (lbs)	151,200	176,400	220,000

Maximum Load for Auxiliary Sheave

No. of Parts of line	1
Maximum Loads (lbs)	24,000

14. Weight of recommended hook block.

Hook Block	110 t	77 t	55 t	39 t	12 t ball hook
Weight (lbs)	3,815	1,990	1,875	1,545	660

Warning: If the weight of the hook block to be used is light than the recommended weight, the jib may turn over backv or will be difficult to lower the empty hook block.

- 15. Rated loads listed apply only to the machine as originally manufactured and designed by KOBELCO CRANES CO., LTD. Modifications to this machine or use of equipment of than that specified can reduce operating capacity.
- 16. Designed and rated to comply with ANSI Code B30.5.

Barge

5 Counterweights (69,000 lbs) - 2 Carbody weights (31,800 lbs) - Crawlers in extended position.

No.		40' Boom				50' Boom							60' Boom					
Month Mon			3	60° Rated	d Load (II)	os)			30	60° Rated	l Load (lk	os)			3	60° Rated	l Load (lk	os)
120 75.0 75	Radius	Angle	Machine	Machine	Machine	Machine	Radius	Angle	Machine	Machine	Machine	Machine	Radius	Angle	Machine	Machine	Machine	Machine
Roeves Ro Roeves Ro Roeves Ro Roeves Roepes Roe	12.0 13.0 14.0 15.0 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0	79.0 77.5 76.0 74.6 73.1 71.6 70.1 68.5 66.9 63.7 60.4 57.0 53.4 49.8 45.8 41.2 36.2 31.1	213,300 * 200,800 * 188,100 * 175,900 * 165,500 * 156,300 * 147,800 * 132,800 101,300 89,600 80,900 73,300 67,200 56,600 51,500	165,500 * 156,300 * 146,400 * 146,400 * 124,900 108,300 95,600 85,600 77,400 70,600 64,800 60,000 55,700 * 51,000 *	126,100 * 122,400 * 116,500 * 116,500 * 103,400 92,000 82,700 75,100 68,700 63,400 58,900 54,700 * 49,700 *	97,800 * 88,400 79,900 72,900 67,000 62,000 57,800 53,700 * 48,400 *	13.0 14.0 15.0 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 42.0 44.0 44.0 46.0	80.0 78.9 77.7 76.6 75.4 74.2 72.9 71.7 69.3 66.8 64.3 61.7 59.1 56.3 47.3 44.0 40.4 36.7 62.9 27.6	200,600 * 187,800 * 175,600 * 165,300 * 156,000 * 147,400 * 132,400 101,000 89,400 80,700 62,000 57,800 53,600 49,800 47,000 44,300 41,500 38,300	132,200 * 122,900 106,800 94,400 84,500 76,400 69,700 63,9100 55,000 51,400 45,400 42,900 40,600 38,200 *	89,500 * 80,700 73,400 67,200 61,900 57,400 53,600 50,100 47,200 44,600 42,200 40,000 37,400 *	75,600 * 70,700 64,900 60,000 55,900 52,300 49,000 46,300 43,800 41,500 39,500	14.0 15.0 16.0 17.0 18.0 19.0 22.0 24.0 26.0 38.0 36.0 38.0 40.0 44.0 44.0 46.0 48.0 50.0 55.0	80.7 79.8 77.8 76.8 75.9 74.9 70.9 68.8 66.7 64.6 62.5 60.3 55.7 53.4 45.8 42.8 39.9 31.2	187,400 * 175,200 * 164,800 * 155,500 * 146,900 * 139,800 * 132,200 115,100 100,800 89,100 80,500 72,800 66,600 57,300 53,100 49,300 46,600 43,800 41,100 39,200 37,200 32,900	118,100 * 105,300 93,000 83,200 75,300 68,700 63,200 58,400 54,200 50,600 42,100 39,800 37,700 35,900	78,700 71,600 65,700 60,600 56,200 52,400 49,100 46,100 43,500 41,100 38,900 37,000 35,300	61,500 * 58,400 54,400 50,800 47,700 44,900 42,400 40,200 38,100 36,300 34,800
Load Boom ODegree Redius Angele ODegree Redius Angele ODegree Redius Angele ODegree Redius Angele ODegree													00.0	20.7	20,000			
	Rec	ves	8	7	6	4	Ree	eves	8	6	4	4	Ree	eves	8	5	4	4
	Ree				6	4	Ree				4	4	Rec				4	4
16.0 80.4 151,000 *	Rec		Boon	n		-	Rec		'Boon	n			Rec		'Boor	n		
	Load Radius (ft)	Boom Angle (deg.)	Boon 30 0 Degree Machine List	1 Degree Machine	d Load (II) 2 Degree Machine	2 Degree Machine	Load Padius (ft)	Boom Angle (deg.)	Boon 30 0 Degree Machine List	1 Degree Machine	I Load (II: 2 Degree Machine	2 Degree Machine	Load Radius (ft)	Boom Angle (deg.)	Boor 3 0 Degree Machine List	1 Degree Machine	1 Load (Ib 2 Degree Machine	2 Degree Machine
Reeves 6 4 4 4 Reeves 6 4 4 2 Reeves 5 4 4 2	Load Radius (ft) 15.0 16.0 17.0 18.0 19.0 22.0 24.0 26.0 38.0 34.0 44.0 46.0 48.0 50.0 65.0 65.0	Poom Angle (deg.) 81.3 80.4 79.6 77.9 77.1 75.4 73.7 72.0 70.3 68.5 66.7 64.9 61.2 59.3 57.3 55.3 55.3 51.2 49.0 43.2 36.9 29.2	## Deciral Control of	92,400 82,800 75,000 68,500 63,000 54,200 50,600 47,400 44,600 42,100 39,800 37,700 35,900 32,000 28,800	68,700 * 67,400 * 65,700 45,700 45,700 44,700 46,700 38,700 36,700 31,400 28,400	53,600 * 51,800 * 51,800 * 44,900 * 44,900 * 45,800 41,500 39,700 37,700 35,900 34,300 30,800 28,100	Load Redius (ft) 16.0 17.0 18.0 19.0 20.0 26.0 28.0 30.0 32.0 34.0 36.0 44.0 46.0 48.0 55.0 60.0 65.0 75.0	800 81.6 80.9 81.6 80.9 80.2 79.5 78.8 74.3 77.3 77.8 71.2 69.7 68.2 66.6 163.5 61.8 60.2 58.5 56.8 55.1 40.4 34.3	30 Degree Machine List 151,000 * 149,300 * 146,500 * 131,800 115,100 101,000 89,200 80,500 72,800 66,600 61,600 57,300 49,300 46,600 43,800 41,100 39,100 37,100 32,700 29,200 26,300 24,100	81,800 74,100 67,700 62,200 57,500 53,500 46,800 44,100 41,600 39,300 37,300 31,500 28,300 25,700 23,400	58,100 * 57,100 * 54,700 \$1,00	46,400 * 44,700 * 43,300 * 40,400 * 37,700 36,200 34,800 33,600 30,000 27,200 24,800 22,800	Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 30.0 32.0 34.0 36.0 38.0 44.0 46.0 48.0 55.0 60.0 65.0 75.0 80.0 85.0	Boom Angle (deg.) 81.9 81.3 80.7 80.0 78.7 74.4 76.1 74.8 69.4 60.9 59.4 655.7 51.7 51.7 32.2	30 Degree Machine List 125,800 * 125,800 * 125,800 * 120,800 * 100,800 66,600 61,600 57,300 53,100 40,900 38,900 36,900 32,500 29,000 26,100 23,800 21,800 20,100	73,000 * 66,900 61,600 56,900 53,000 49,500 41,100 38,900 35,100 31,200 28,100 21,200 19,600	50,600 * 49,600 * 47,000 44,200 37,400 35,600 34,000 27,400 22,700 20,800 19,300	39,900 * 38,500 * 37,600 * 36,400 * 34,300 32,000 29,200 26,600 24,200 20,500 19,100

Refer to notes on page 32.

Bigge

Barge

5 Counterweights (69,000 lbs) - 2 Carbody weights (31,800 lbs) - Crawlers in extended position.

	100)' Boo	m				110)' Boo	m				120)' Boo	m		
		3	60° Rated	d Load (Ib	os)			3	60° Rated	l Load (II	os)			3	60° Rated	d Load (Ib	os)
Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List
19.0	81.6	125,600 *				20.0	81.8	100,800 *				22.0	81.6	98,700 *			
20.0	81.0	123,600 *				22.0	80.8	100,800 *				24.0	80.6	94,200 *			
22.0	79.9 78.7	112,200 *				24.0 26.0	79.7 78.6	96,500 * 88,500 *				26.0 28.0	79.6 78.6	88,000 *			
24.0 26.0	77.5	100,600 88,900				28.0	77.6	80,200				30.0	77.7	79,900 72,200			
28.0	76.3	80,200				30.0	76.5	72,400				32.0	76.7	66,100			
30.0	75.1	72,400				32.0	75.4	66,300				34.0	75.7	61,100	53,000 *		
32.0	74.0	66,300	60,800			34.0	74.3	61,300	55,900*			36.0	74.7	56,800	51,300		
34.0	72.8	61,300	56,300	42 500 V		36.0	73.2	57,000	51,900			38.0	73.7	52,500	47,900	22 222 4	
36.0 38.0	71.6 70.3	57,000 52,700	52,300 48,900	43,500 * 42,900 *		38.0 40.0	72.2 71.1	52,700 48,900	48,600 45,500	37,900 *		40.0 42.0	72.7 71.7	48,700 45,800	45,000 42,200	33,900 * 33,400 *	
40.0	69.1	48,900	45,800	42,400 *	34,800 *	42.0	70.0	46,200	42,900	37,500 *		44.0	70.7	43,000	39,800	33,000 *	
42.0	67.9	46,200	43,100	40,900 *	33,500 *	44.0	68.9	43,400	40,400	37,000 *	28,900 *	46.0	69.7	40,200	37,600	32,800 *	
44.0	66.6	43,400	40,700	38,800	32,500 *	46.0	67.8	40,700	38,200	36,200 *	28,600 *	48.0	68.6	38,300	35,600	32,300 *	
46.0	65.4	40,700	38,500	36,800	31,700 *	48.0	66.6	38,700	36,300	34,600	28,200 *	50.0	67.6	36,300	34,000	31,700*	24,800
48.0	64.1	38,700	36,500	35,000	30,900 *	50.0	65.4	36,600	34,500	32,900	27,900 *	55.0	65.0	32,000	30,200	28,900	24,300
50.0 55.0	62.8 59.5	36,600	34,700	33,400	30,000 *	55.0	62.5	32,300	30,500	29,400	27,200 *	60.0	62.3	28,300	27,100	26,000	23,600
60.0	59.5	32,300 28,700	30,800 27,500	29,700 26,700	27,800 * 25,500	60.0 65.0	59.5 56.5	28,700 25,900	27,400 24,700	26,400 23,900	25,500 23,100	65.0 70.0	59.6 56.8	25,400 23,200	24,400 22,200	23,500 21,400	22,700
65.0	52.5	25,900	24,900	24,300	23,600	70.0	53.2	23,500	22,500	21,800	21,200	75.0	53.8	21,200	20,300	19,700	19,100
70.0	48.8	23,500	22,700	22,100	21,500	75.0	49.9	21,400	20,600	20,000	19,500	80.0	50.8	19,400	18,600	18,100	17,600
75.0	44.8	21,400	20,700	20,300	20,000	80.0	46.4	19,600	19,000	18,600	18,200	85.0	47.7	17,700	17,200	16,700	16,300
80.0	40.5	19,600	19,200	18,800	18,500	85.0	42.6	18,100	17,700	17,300	17,000	90.0	44.3	16,500	15,900	15,600	15,300
85.0	36.0	18,100	17,700	17,500	17,200	90.0 95.0	38.6	16,800 15,600	16,400	16,100	15,700	95.0	40.7	15,300	14,800	14,500	14,300
90.0 95.0	30.5 24.0	16,900 15,800	16,500 15,400	16,300 15,300	16,100 15,100	100.0	34.1 29.1	14,600	15,200 14,300	15,000 14,200	14,800 14,000	100.0	36.9 27.8	14,200 12,600	13,800 12,200	13,600 12,000	13,400 11,900
75.0	24.0	13,000	13,400	13,300	13,100	105.0	23.2	13,770	13,500	13,300	14,000	115.0	22.2	11,840	11,500	12,000	11,500
Ree	eves	5	4	2	2	Rec	eves	4	4	2	2	Rec	eves	4	4	2	2
	130)' Boo	m				140)' Boo	m				150)' Boo	m		
				d Load (II)	os)				60° Rated	d Load (It	201				60° Rated	d Load (Ik	ne)
Load Radius	Boom							_	00 , 6100	i Luau (il	<i>)</i> 3 <i>)</i>			_	oo ratet	i Luau (il	13)
(ft)	Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree
	Angle	Machine	Machine	Machine	Machine	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	2 Degree Machine	Padius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	2 Degree Machine
(ft)	Angle (deg.)	Machine List	Machine	Machine	Machine	Radius (ft)	Angle (deg.)	0 Degree Machine List	1 Degree Machine	2 Degree Machine	2 Degree Machine	Radius (ft)	Angle (deg.)	0 Degree Machine List	1 Degree Machine	2 Degree Machine	2 Degree Machine
24.0 26.0 28.0	Angle (deg.) 81.3 80.4 79.5	Machine List 85,100 * 83,900 * 78,200 *	Machine	Machine	Machine	24.0 26.0 28.0	Angle (deg.) 81.9 81.1 80.3	0 Degree Machine List 72,900 * 71,800 * 70,800 *	1 Degree Machine	2 Degree Machine	2 Degree Machine	Padius (ft) 26.0 28.0 30.0	Angle (deg.) 81.7 80.9 80.1	0 Degree Machine List 62,200 * 61,300 * 60,400 *	1 Degree Machine	2 Degree Machine	2 Degree Machine
24.0 26.0 28.0 30.0	81.3 80.4 79.5 78.6	85,100 * 83,900 * 78,200 * 71,900	Machine	Machine	Machine	24.0 26.0 28.0 30.0	81.9 81.1 80.3 79.4	O Degree Machine List 72,900 * 71,800 * 70,800 * 69,000 *	1 Degree Machine	2 Degree Machine	2 Degree Machine	26.0 28.0 30.0 32.0	Angle (deg.) 81.7 80.9 80.1 79.4	0 Degree Machine List 62,200 * 61,300 * 60,400 * 59,400 *	1 Degree Machine	2 Degree Machine	2 Degree Machine
24.0 26.0 28.0 30.0 32.0	81.3 80.4 79.5 78.6 77.7	85,100 * 85,900 * 78,200 * 71,900 65,900	Machine	Machine	Machine	24.0 26.0 28.0 30.0 32.0	81.9 81.1 80.3 79.4 78.6	O Degree Machine List 72,900 * 71,800 * 70,800 * 69,000 * 64,700 *	1 Degree Machine	2 Degree Machine	2 Degree Machine	26.0 28.0 30.0 32.0 34.0	81.7 80.9 80.1 79.4 78.6	0 Degree Machine List 62,200 * 61,300 * 60,400 * 59,400 * 57,200 *	1 Degree Machine	2 Degree Machine	2 Degree Machine
24.0 26.0 28.0 30.0	81.3 80.4 79.5 78.6	85,100 * 83,900 * 78,200 * 71,900 65,900 60,900	Machine	Machine	Machine	24.0 26.0 28.0 30.0	81.9 81.1 80.3 79.4	0 Degree Machine List 72,900 * 71,800 * 70,800 * 69,000 * 64,700 * 60,500	1 Degree Machine	2 Degree Machine	2 Degree Machine	26.0 28.0 30.0 32.0	Angle (deg.) 81.7 80.9 80.1 79.4	0 Degree Machine List 62,200 * 61,300 * 60,400 * 59,400 * 57,200 * 54,100 *	1 Degree Machine	2 Degree Machine	2 Degree Machine
24.0 26.0 28.0 30.0 32.0 34.0	81.3 80.4 79.5 78.6 77.7 76.9	85,100 * 85,900 * 78,200 * 71,900 65,900	Machine	Machine	Machine	24.0 26.0 28.0 30.0 32.0 34.0	81.9 81.1 80.3 79.4 78.6 77.8	O Degree Machine List 72,900 * 71,800 * 70,800 * 69,000 * 64,700 *	1 Degree Machine	2 Degree Machine	2 Degree Machine	26.0 28.0 30.0 32.0 34.0 36.0	81.7 80.9 80.1 79.4 78.6 77.8	0 Degree Machine List 62,200 * 61,300 * 60,400 * 59,400 * 57,200 *	1 Degree Machine	2 Degree Machine	2 Degree Machine
(ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0	81.3 80.4 79.5 78.6 77.7 76.9 75.9 75.0 74.1	85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 52,300 48,400	46,400 * 44,500	Machine	Machine	Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0	81.9 81.1 80.3 79.4 78.6 77.8 76.9 76.1 75.2	0 Degree Machine List 72,900 * 71,800 * 70,800 * 69,000 * 64,700 * 60,500 56,200 52,000 48,200	1 Degree Machine List 41,500 *	2 Degree Machine	2 Degree Machine	Radius (ft) 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0	81.7 80.9 80.1 79.4 78.6 77.8 77.0 76.3 75.5	0 Degree Machine List 62,200 * 61,300 * 60,400 * 59,400 * 57,200 * 54,100 * 51,000 * 48,000 45,200	1 Degree Machine List 37,100 *	2 Degree Machine	2 Degree Machine
(ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0	81.3 80.4 79.5 78.6 77.7 76.9 75.9 75.0 74.1 73.2	Machine List 85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 52,300 48,400 45,600	46,400 * 44,500 41,700	Machine List	Machine	Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 42.0	81.9 81.1 80.3 79.4 78.6 77.8 76.9 76.1 75.2 74.4	0 Degree Machine List 72,900 * 71,800 * 70,800 * 69,000 * 64,700 * 60,500 56,200 52,000 48,200 45,400	1 Degree Machine List 41,500 * 40,600 *	2 Degree Machine	2 Degree Machine	26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0	81.7 80.9 80.1 79.4 78.6 77.8 77.0 76.3 75.5 74.7	0 Degree Machine List 62,200 * 61,300 * 60,400 * 59,400 * 57,200 * 54,100 * 48,000 45,200 42,400	1 Degree Machine List 37,100 * 36,600 *	2 Degree Machine	2 Degre Machin
(ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0	81.3 80.4 79.5 78.6 77.7 76.9 75.9 75.0 74.1 73.2 72.2	Machine List 85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 52,300 48,400 45,600 42,800	46,400 * 44,500 41,700 39,400	Machine List	Machine	24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0	81.9 81.1 80.3 79.4 78.6 77.8 76.9 76.1 75.2 74.4 73.5	0 Degree Machine List 72,900 * 71,800 * 70,800 * 69,000 * 60,500 56,200 52,000 48,200 45,400 42,600	1 Degree Machine List 41,500 * 40,600 * 38,900	2 Degree Machine	2 Degree Machine	Radius (ft) 26.0 28.0 30.0 32.0 34.0 36.0 40.0 42.0 44.0 46.0	81.7 80.9 80.1 79.4 78.6 77.8 77.0 76.3 75.5 74.7 73.9	0 Degree Machine List 62,200 * 61,300 * 60,400 * 59,400 * 57,200 * 54,100 * 45,200 42,400 39,600	1 Degree Machine List 37,100 * 36,600 * 35,800 *	2 Degree Machine	2 Degre Machin
(ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0	81.3 80.4 79.5 78.6 77.7 76.9 75.9 75.0 74.1 73.2 72.2 71.3	Machine List 85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 52,300 48,400 45,600 42,800 40,000	46,400 * 44,500 41,700 39,400 37,200	29,700 * 29,400 *	Machine	Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0	81.9 81.1 80.3 79.4 78.6 77.8 76.9 76.1 75.2 74.4 73.5 72.7	0 Degree Machine List 72,900 * 71,800 * 70,800 * 69,000 * 60,500 56,200 52,000 48,200 45,400 42,600 39,800	1 Degree Machine List 41,500 * 40,600 * 38,900 36,800	2 Degree Machine	2 Degree Machine	Radius (ft) 26.0 28.0 30.0 32.0 34.0 36.0 40.0 42.0 44.0 46.0 48.0	81.7 80.9 80.1 79.4 78.6 77.0 76.3 75.5 74.7 73.9 73.1	0 Degree Machine List 62,200 * 61,300 * 60,400 * 59,400 * 57,200 * 54,100 * 51,000 * 48,000 45,200 42,400 39,600 37,500	1 Degree Machine List 37,100 * 36,600 * 35,800 * 34,500	2 Degree Machine List	2 Degre Machin
(ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0	81.3 80.4 79.5 78.6 77.7 76.9 75.9 75.0 74.1 73.2 72.2 71.3 70.4	Machine List 85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 52,300 48,400 45,600 42,800 40,000 38,000	46,400 * 44,500 41,700 39,400 37,200 35,300	29,700 * 29,400 * 29,100 *	Machine	Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 42.0 44.0 46.0 48.0	81.9 81.1 80.3 79.4 78.6 77.8 76.9 76.1 75.2 74.4 73.5 72.7 71.8	0 Degree Machine List 72,900 * 71,800 * 70,800 * 69,000 * 64,700 * 60,500 55,200 48,200 45,400 42,600 39,800 37,800	1 Degree Machine List 41,500 * 40,600 * 38,900 36,800 34,900	2 Degree Machine	2 Degree Machine	Radius (ft) 26.0 28.0 30.0 32.0 34.0 36.0 40.0 44.0 44.0 46.0 48.0 50.0	81.7 80.9 80.1 79.4 78.6 77.8 77.0 76.3 75.5 74.7 73.9 73.1 72.3	0 Degree Machine List 62,200 * 61,300 * 60,400 * 59,400 * 57,200 * 54,100 * 51,000 * 48,000 42,400 39,600 37,500 35,500	37,100 * 36,600 * 35,800 * 34,500 32,800	2 Degree Machine List	2 Degree Machine
(ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0	81.3 80.4 79.5 78.6 77.7 76.9 75.9 75.0 74.1 73.2 72.2 71.3	Machine List 85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 52,300 48,400 45,600 42,800 40,000	46,400 * 44,500 41,700 39,400 37,200	29,700 * 29,400 *	Machine	Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0	81.9 81.1 80.3 79.4 78.6 77.8 76.9 76.1 75.2 74.4 73.5 72.7	0 Degree Machine List 72,900 * 71,800 * 70,800 * 69,000 * 60,500 56,200 52,000 48,200 45,400 42,600 39,800	1 Degree Machine List 41,500 * 40,600 * 38,900 36,800	2 Degree Machine	2 Degree Machine	Radius (ft) 26.0 28.0 30.0 32.0 34.0 36.0 40.0 42.0 44.0 46.0 48.0	81.7 80.9 80.1 79.4 78.6 77.0 76.3 75.5 74.7 73.9 73.1	0 Degree Machine List 62,200 * 61,300 * 60,400 * 59,400 * 57,200 * 54,100 * 51,000 * 48,000 45,200 42,400 39,600 37,500	1 Degree Machine List 37,100 * 36,600 * 35,800 * 34,500	2 Degree Machine List	2 Degree Machin List
(ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 42.0 44.0 46.0 48.0 50.0	81.3 80.4 79.5 78.6 77.7 76.9 75.9 75.0 74.1 73.2 72.2 71.3 70.4 69.4	Machine List 85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 52,300 48,400 45,600 42,800 40,000 38,000 36,000	46,400 * 44,500 41,700 39,400 37,200 35,300 33,600	29,700 * 29,400 * 29,100 * 28,700 *	Machine List	Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 42.0 44.0 46.0 48.0 50.0	81.9 81.1 80.3 79.4 78.6 77.8 76.1 75.2 74.4 73.5 72.7 71.8 71.0	0 Degree Machine List 72,900 * 71,800 * 70,800 * 69,000 * 64,700 * 60,500 56,200 48,200 45,400 42,600 39,800 37,800 31,400 27,800	1 Degree Machine List 41,500 * 40,600 * 38,900 34,900 34,900 29,400 26,200	2 Degree Machine List	2 Degree Machine List 19,200 * 18,700 *	Radius (It) 26.0 28.0 30.0 32.0 34.0 36.0 40.0 42.0 44.0 46.0 48.0 50.0 55.0 60.0 65.0	81.7 80.9 80.1 79.4 78.6 77.8 77.0 76.3 75.5 74.7 73.9 73.1 72.3 70.3	0 Degree Machine List 62,200 * 61,300 * 59,400 * 57,200 * 54,100 * 51,000 * 48,000 42,400 37,500 35,500 31,200	37,100 * 36,600 * 35,800 * 34,500 32,800 29,000	2 Degree Machine List List 23,300 * 22,700 *	2 Degree Machine List 16,800 16,500
24.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 55.0 60.0 65.0	Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.9 75.9 75.0 74.1 73.2 72.2 71.3 70.4 69.4 67.1 64.6 62.2	Machine List 85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 48,400 45,600 42,800 40,000 38,000 36,000 28,100 25,200	46,400 * 44,500 41,700 39,400 37,200 35,300 33,600 29,700 26,600 24,100	29,700 * 29,400 * 29,100 * 28,700 * 25,500 * 25,500 23,100	21,700 * 21,200 * 20,700 *	Padius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 42.0 44.0 46.0 48.0 50.0 65.0 65.0	Angle (deg.) 81.9 81.1 80.3 79.4 78.6 77.8 76.9 76.1 75.2 71.8 71.0 68.8 66.6 64.3	0 Degree Machine List 72,900 * 71,800 * 70,800 * 69,000 * 64,700 * 60,500 56,200 52,000 48,200 42,600 39,800 37,800 35,800 27,800 25,000	11.500 * 41,500 * 40,600 * 38,900 36,800 33,200 29,400 26,200 23,500	2 Degree Machine List 25,100 * 24,500 * 22,400 *	2 Degree Machine List 19,200 * 18,700 * 18,300 *	Radius (ft) 26.0 28.0 30.0 32.0 34.0 36.0 42.0 44.0 46.0 48.0 50.0 65.0 70.0	Angle (deg.) 81.7 80.9 80.1 79.4 78.6 77.8 77.0 76.3 75.5 74.7 73.9 73.1 72.3 70.3 68.2 66.2 64.0	0 Degree Machine List 62,200 * 61,300 * 60,400 * 59,400 * 57,200 * 54,100 * 54,100 * 48,000 45,200 42,400 39,600 37,500 31,200 27,600 24,800 22,400	37,100 * 36,600 * 35,800 * 34,500 29,000 25,800 23,300 21,100	23,300 * 22,700 * 22,000 * 21,600 * 20,100 *	2 Degree Machine List 16,800 16,500 16,100
24.0 26.0 28.0 30.0 32.0 34.0 36.0 42.0 44.0 44.0 46.0 48.0 50.0 55.0 60.0 65.0 70.0	Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.9 75.9 75.0 74.1 73.2 72.2 71.3 70.4 69.4 67.1 64.6 62.2 59.6	Machine List 85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 52,300 48,400 45,600 42,800 40,000 38,000 31,600 28,100 25,200 22,900	46,400 * 44,500 41,700 39,400 37,200 35,300 33,600 29,700 26,600 24,100 21,900	29,700 * 29,400 * 29,100 * 27,900 * 27,900 * 25,500 23,100 21,100	21,700 * 21,200 * 20,700 * 20,000 *	Padius (ft) 24.0 26.0 28.0 30.0 34.0 34.0 36.0 44.0 44.0 46.0 48.0 55.0 60.0 65.0 70.0	Angle (deg.) 81.9 81.1 80.3 79.4 78.6 77.8 76.9 76.1 75.2 74.4 73.5 72.7 71.8 66.6 64.3 62.0	0 Degree Machine List 71,800 * 70,800 * 69,000 * 60,500 52,000 48,200 45,400 42,600 39,800 31,800 25,000 22,600	1 Degree Machine List 41,500 * 40,600 * 38,900 36,800 34,900 33,200 29,400 26,200 23,500 21,300	25,100 * 24,500 * 22,400 * 20,500	2 Degree Machine List 19,200 * 18,700 * 18,300 * 17,900 *	Radius (ft) 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 44.0 46.0 48.0 55.0 60.0 65.0 70.0 75.0	Angle (deg.) 81.7 80.9 80.1 79.4 78.6 77.8 77.0 76.3 75.5 74.7 73.9 73.1 72.3 70.3 68.2 66.2 64.0 61.9	0 Degree Machine List 62,200 * 61,300 * 60,400 * 59,400 * 57,200 * 54,100 * 51,000 * 48,000 42,400 39,600 37,500 31,200 27,600 22,400 20,300	37,100 * 36,600 * 35,800 * 34,500 29,000 25,800 21,100 19,200	23,300 * 22,700 * 21,600 * 20,100 * 18,300	2 Degree Machine List 16,800 16,500 16,100 15,700
24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 42.0 44.0 46.0 48.0 50.0 55.0 60.0 65.0 70.0	Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.9 75.0 74.1 73.2 72.2 71.3 70.4 69.4 67.1 64.6 62.2 59.6 57.0	Machine List 85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 52,300 48,400 42,800 40,000 38,000 31,600 28,100 25,200 22,900 20,900	46,400 * 44,500 41,700 39,400 37,200 35,300 29,700 26,600 21,100 21,900 20,000	29,700 * 29,400 * 29,100 * 27,900 * 25,500 21,100 19,300	21,700 * 21,200 * 20,700 * 20,000 * 18,700	Padius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 44.0 46.0 48.0 55.0 60.0 65.0 70.0 75.0	Angle (deg.) 81.9 81.1 80.3 79.4 78.6 77.8 76.9 76.1 75.2 74.4 73.5 72.7 71.8 66.6 64.3 62.0 59.7	0 Degree Machine List 72,900 * 71,800 * 70,800 * 69,000 * 60,500 52,000 45,400 42,600 39,800 31,800 31,400 27,800 22,600 20,500	11.500 * 41,500 * 40,600 * 38,900 34,900 29,400 26,200 21,300 19,500	25,100 * 24,500 * 20,500 18,700	2 Degree Machine List 19,200 * 18,700 * 18,300 * 17,900 * 17,400 *	Radius (ft) 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 44.0 44.0 45.0 65.0 60.0 65.0 70.0 75.0 80.0	Angle (deg.) 81.7 80.9 80.1 79.4 78.6 77.8 76.3 75.5 74.7 73.9 73.1 72.3 70.3 68.2 66.2 64.0 61.9 59.6	0 Degree Machine List 62,200 * 61,300 * 60,400 * 59,400 * 57,200 * 54,100 * 48,000 42,400 39,600 37,500 31,200 27,600 24,800 20,300 18,500	37,100 * 36,600 * 35,800 * 34,500 29,000 25,800 23,300 21,100 19,200 17,600	23,300 * 22,700 * 22,700 * 22,000 * 21,600 * 18,300 17,000	2 Degree Machini List 16,800 16,500 16,100 15,700 15,400
(ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0 50.0 65.0 70.0 75.0 80.0	Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.9 75.0 74.1 73.2 72.2 71.3 70.4 69.4 67.1 64.6 62.2 59.6 57.0 54.3	Machine List 85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 52,300 48,400 45,600 42,800 40,000 38,000 31,600 28,100 25,200 22,900 20,900 19,000	46,400 * 44,500 41,700 39,400 37,200 35,300 29,700 26,600 24,100 20,000 18,300	29,700 * 29,400 * 29,100 * 29,900 * 29,100 * 27,900 * 25,500 23,100 11,100 19,300 17,700	21,700 * 21,200 * 20,700 * 20,000 * 18,700 17,200	Padius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 44.0 46.0 48.0 50.0 65.0 70.0 75.0 80.0	Angle (deg.) 81.9 81.1 80.3 79.4 78.6 77.8 76.1 75.2 74.4 73.5 72.7 71.8 68.8 66.6 64.3 62.0 59.7 57.3	0 Degree Machine List 72,900 * 71,800 * 69,000 * 64,700 * 60,500 55,200 45,400 42,600 39,800 37,800 35,800 31,400 27,800 22,600 20,500 18,700	11.500 * 41,500 * 40,600 * 38,900 34,900 33,200 29,400 26,200 23,500 17,800	25,100 * 24,500 * 20,500 18,700 17,200	2 Degree Machine List 19,200 * 18,700 * 18,300 * 17,900 * 17,400 * 16,600	Radius (ft) 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 44.0 44.0 50.0 55.0 60.0 65.0 77.0 80.0 85.0	Angle (deg.) 81.7 80.9 80.1 79.4 78.6 77.8 76.3 75.5 74.7 73.9 73.1 72.3 70.3 68.2 66.2 64.0 61.9 59.6 57.4	0 Degree Machine List 62,200 * 61,300 * 60,400 * 59,400 * 57,200 * 54,100 * 51,000 * 48,000 45,200 37,500 31,200 27,600 24,400 22,400 22,400 20,300 18,500 17,000	37,100 * 36,600 * 35,800 * 34,500 29,000 25,800 21,100 19,200 17,600 16,200	23,300 * 22,700 * 21,600 * 20,100 * 18,300 17,000 15,500	16,800 16,500 16,100 15,700 15,400
24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 42.0 44.0 46.0 48.0 50.0 55.0 60.0 65.0 70.0	Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.9 75.0 74.1 73.2 72.2 71.3 70.4 69.4 67.1 64.6 62.2 59.6 57.0	Machine List 85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 52,300 48,400 42,800 40,000 38,000 31,600 28,100 25,200 22,900 20,900	46,400 * 44,500 41,700 39,400 37,200 35,300 29,700 26,600 21,100 21,900 20,000	29,700 * 29,400 * 29,100 * 27,900 * 25,500 21,100 19,300	21,700 * 21,200 * 20,700 * 20,000 * 18,700	Padius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 44.0 46.0 48.0 55.0 60.0 65.0 70.0 75.0	Angle (deg.) 81.9 81.1 80.3 79.4 78.6 77.8 76.9 76.1 75.2 74.4 73.5 72.7 71.8 66.6 64.3 62.0 59.7	0 Degree Machine List 72,900 * 71,800 * 70,800 * 69,000 * 60,500 52,000 45,400 42,600 39,800 31,800 31,400 27,800 22,600 20,500	11.500 * 41,500 * 40,600 * 38,900 34,900 29,400 26,200 21,300 19,500	25,100 * 24,500 * 20,500 18,700	2 Degree Machine List 19,200 * 18,700 * 18,300 * 17,900 * 17,400 *	Radius (ft) 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 44.0 44.0 45.0 65.0 60.0 65.0 70.0 75.0 80.0	Angle (deg.) 81.7 80.9 80.1 79.4 78.6 77.8 76.3 75.5 74.7 73.9 73.1 72.3 70.3 68.2 66.2 64.0 61.9 59.6	0 Degree Machine List 62,200 * 61,300 * 60,400 * 59,400 * 57,200 * 54,100 * 48,000 42,400 39,600 37,500 31,200 27,600 24,800 20,300 18,500	37,100 * 36,600 * 35,800 * 34,500 29,000 25,800 23,300 21,100 19,200 17,600	23,300 * 22,700 * 22,700 * 22,000 * 21,600 * 18,300 17,000	16,800 16,500 16,100 15,700 15,400 14,900
(ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0 50.0 65.0 70.0 75.0 80.0 85.0	Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.9 75.9 75.0 74.1 73.2 72.2 71.3 70.4 69.4 66.1 64.6 62.2 59.6 57.0 54.3 51.6	Machine List 85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 52,300 48,400 40,000 38,000 36,000 31,600 28,100 25,200 20,900 19,000 17,500	46,400 * 44,500 41,700 39,400 37,200 35,300 29,700 26,600 24,100 20,000 18,300 16,900	29,700 * 29,400 * 29,400 * 29,100 * 27,900 * 25,500 23,100 21,100 19,300 17,700 16,400	21,700 * 21,200 * 20,000 * 18,700 17,200 16,000	Padius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0 60.0 60.0 60.0 75.0 80.0 85.0	Angle (deg.) 81.9 81.1 80.3 79.4 78.6 77.8 76.9 76.1 75.2 74.4 73.5 72.7 71.8 66.6 66.3 62.0 59.7 57.3 54.8	0 Degree Machine List 72,900 * 71,800 * 70,800 * 69,000 * 64,700 * 60,500 56,200 52,000 48,200 37,800 37,800 35,800 31,400 27,800 22,600 22,600 18,700 17,200	41,500 * 40,600 * 38,900 34,900 29,400 223,500 21,300 17,800 16,400	25,100 * 24,500 * 20,500 17,200 15,800	19,200 * 18,700 * 17,400 * 16,600 15,400	Radius (ft) 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 44.0 46.0 48.0 55.0 60.0 75.0 80.0 85.0 90.0	Angle (deg.) 81.7 80.9 80.1 79.4 78.6 77.8 77.0 76.3 75.5 74.7 73.9 73.1 72.3 70.3 68.2 66.2 66.2 61.9 59.6 57.4 55.2	0 Degree Machine List 62,200 * 61,300 * 60,400 * 59,400 * 57,200 * 54,100 * 51,000 * 48,000 45,200 42,400 39,600 37,500 31,200 27,600 24,800 22,400 20,300 18,500 17,000 15,700	37,100 * 36,600 * 35,800 * 34,500 32,800 29,000 25,800 21,100 19,200 17,600 16,200 14,900	23,300 * 22,700 * 22,000 * 20,100 * 18,300 15,500 14,400	16,800 16,500 15,700 15,400 14,000 13,000
(ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0 60.0 65.0 67.0 70.0 85.0 90.0 95.0 100.0	Angle (deg.) 81.3 81.3 80.4 79.5 78.6 77.7 76.9 75.0 74.1 73.2 71.3 70.4 69.4 67.1 64.6 62.2 59.6 57.0 54.1 45.6 42.4	Machine List 85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 52,300 48,400 45,600 42,800 40,000 38,000 36,000 28,100 25,200 22,900 20,900 19,000 17,500 16,100 15,000 14,000	46,400 * 44,500 41,700 39,400 37,200 35,300 33,600 29,700 26,600 24,100 21,900 20,000 18,300 16,900 15,700 14,600 13,600	29,700 * 29,400 * 29,100 * 28,700 * 25,500 23,100 19,300 17,700 16,400 15,300 14,200 13,300	21,700 * 21,200 * 20,700 * 20,000 * 18,700 14,900 13,900 13,000	Padius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 36.0 40.0 44.0 46.0 65.0 70.0 65.0 75.0 80.0 85.0 95.0 100.0	Angle (deg.) 81.9 81.9 81.1 80.3 79.4 78.6 77.8 76.9 76.1 75.2 74.4 71.0 68.8 66.6 64.3 62.0 59.7 57.3 57.3 57.3 54.8 52.2 49.5	0 Degree Machine List 72,900 * 71,800 * 70,800 * 69,000 * 66,700 * 56,200 * 52,000 48,200 45,400 42,600 39,800 37,800 35,800 20,500 12,600 20,500 17,200 115,900 14,600 13,600	11.500 * 41,500 * 40,600 * 38,900 36,800 33,200 29,400 26,200 23,500 17,800 16,400 15,200 14,100 13,100	25,100 * 24,500 * 20,500 18,700 15,800 14,700 13,700 12,800	19,200 * 18,700 * 17,400 * 16,600 15,400 11,300 12,500	Redius (ft) 26.00 30.00 32.00 34.00 36.00 38.00 44.00 44.00 45.00 65.00 75.00 85.00 90.00 110.00	Angle (deg.) 81.7 81.7 80.9 80.1 79.4 78.6 77.8 77.0 76.3 75.5 74.7 72.3 70.3 68.2 66.2 64.0 61.9 59.6 57.4 55.2 52.8 50.3 45.1	0 Degree Machine List 62,200 * 61,300 * 60,400 * 59,400 * 51,000 * 48,000 45,200 42,400 39,600 37,500 31,200 22,400 20,300 18,500 17,000 15,700 14,400 13,400 11,700	37,100 * 36,600 * 35,800 * 34,500 29,000 21,100 19,200 17,600 14,900 13,800 12,800 11,200	23,300 * 22,700 * 21,600 * 20,100 * 18,300 17,000 14,400 13,300 12,500 10,900	16,800 16,500 15,700 14,900 12,100 12,100 10,700
(ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 42.0 44.0 46.0 48.0 55.0 60.0 65.0 70.0 75.0 88.0 99.0 95.0 110.0	Angle (deg.) 81.3 81.3 81.3 81.4 79.5 78.6 77.7 76.9 75.9 75.0 74.1 73.2 72.2 71.3 70.4 69.4 69.4 69.4 65.1 64.6 62.2 59.6 57.0 54.3 51.6 42.4 35.4	Machine List 85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 42,800 44,000 38,000 36,000 31,600 28,100 25,200 22,900 20,900 17,500 16,100 15,000 14,000 12,100	46,400 * 44,500 41,700 39,400 37,200 35,300 29,700 26,600 24,100 21,900 15,700 15,700 13,600 11,900	29,700 * 29,400 * 29,100 * 25,500 * 23,100 * 21,100 * 19,300 * 17,700 * 16,400 * 15,300 * 11,700 * 11,	21,700 * 21,200 * 20,700 * 20,000 * 18,700 11,4900 13,900 11,600 11,600	Padius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 44.0 46.0 65.0 75.0 60.0 65.0 70.0 75.0 80.0 85.0 99.0 100.0 110.0	Angle (deg.) 81.9 81.9 81.1 80.3 79.4 78.6 77.8 76.9 75.2 74.4 73.5 72.7 71.8 66.6 64.3 62.0 59.7 57.3 54.8 40.8	0 Degree Machine List 71,800 * 70,800 * 69,000 * 60,500 56,000 52,000 48,200 45,400 42,600 39,800 31,400 22,600 20,500 18,700 15,900 15,900 14,600 13,600 11,900	11.500 * 40,600 * 38,900 36,800 34,900 29,400 21,300 19,500 17,800 16,400 15,200 14,100 13,100 11,400	25,100 * 24,500 * 20,500 18,700 17,200 14,700 12,800 11,200	19,200 * 18,700 * 17,900 * 17,400 * 16,600 14,300 12,500 11,000	Radius (ft) 26.00 38.00 32.00 34.00 36.00 38.00 44.00 44.00 45.00 55.00 65.00 75.00 85.00 90.00 90.00 110.00 110.00 120.00	Angle (deg.) 81.7 81.7 80.9 80.1 79.4 78.6 77.8 77.0 75.5 74.7 73.9 73.1 72.3 70.3 66.2 64.0 61.9 59.6 57.4 55.2 52.8 52.8 345.1 39.3	0 Degree Machine List 62,200 * 61,300 * 60,400 * 59,400 * 57,200 * 54,100 * 51,000 * 48,000 37,500 31,200 27,600 22,400 20,300 18,500 17,000 11,700 11,4000 11,700 10,300	37,100 * 36,600 * 35,800 * 34,500 29,000 25,800 21,100 19,200 17,600 16,200 14,900 13,800 11,200 9,900	23,300 * 22,700 * 21,600 * 20,100 * 18,300 17,000 15,500 14,400 13,300 10,900 9,600	16,800 16,500 16,100 15,700 14,900 13,010 10,700 9,400
(ft) 24.0 26.0 28.0 30.0 34.0 36.0 38.0 40.0 44.0 44.0 65.0 65.0 70.0 75.0 80.0 85.0 95.0 100.0 110.0	Angle (deg.) 81.3 81.3 80.4 79.5 78.6 77.7 76.9 75.9 74.1 73.2 72.2 71.3 70.4 69.4 66.2 59.6 57.0 54.3 51.6 48.7 42.4 45.6 42.4 435.4 26.6	Machine List 85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 52,300 48,400 45,600 42,800 40,000 36,000 31,600 28,100 25,200 22,900 20,900 19,000 17,500 16,100 15,000 14,000 12,100 10,800	46,400 * 44,500 41,700 39,400 37,200 35,300 33,600 29,700 26,600 24,100 21,900 20,000 18,300 15,700 14,600 11,900 10,600	29,700 * 29,400 * 29,100 * 28,700 * 25,500 23,100 19,300 17,700 16,400 15,300 14,200 13,300	21,700 * 21,200 * 20,700 * 20,000 * 18,700 14,900 13,900 13,000	Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 44.0 46.0 65.0 75.0 60.0 65.0 77.0 80.0 85.0 90.0 90.0 110.0 120.0	Angle (deg.) 81.9 81.9 81.1 80.3 79.4 78.6 77.8 76.9 76.1 75.2 74.4 73.5 72.7 71.8 66.6 66.3 62.0 59.7 57.3 54.8 52.2 49.6 40.8 34.0	0 Degree Machine List 71,800 * 70,800 * 69,000 * 60,500 52,000 45,400 42,600 39,800 31,400 22,600 20,500 18,700 17,200 15,900 14,600 11,900 10,300	11,500 * 40,600 * 38,900 36,800 34,900 29,400 21,300 19,500 17,800 16,400 15,200 14,100 11,400 10,100	25,100 * 24,500 * 20,500 18,700 17,200 14,700 13,700 11,200 9,900	2 Degree Machine List 19,200 * 18,700 * 18,300 * 17,400 * 16,600 15,400 14,300 13,2500 11,000 9,800	Radius (ft) 26.00 38.00 32.00 34.00 36.00 38.00 44.00 44.00 45.00 55.00 65.00 65.00 75.00 85.00 95.00 101.00 112.00 130.00	Angle (deg.) 81.7 81.7 80.9 80.1 79.4 78.6 77.8 77.0 76.3 75.5 74.7 73.9 73.1 72.3 70.3 68.2 66.2 66.2 66.2 65.2 52.8 55.3 45.1 39.3 32.8	0 Degree Machine List 62,200 * 61,300 * 62,400 * 57,200 * 54,100 * 51,000 * 42,400 39,600 37,500 31,200 27,600 24,800 20,300 18,500 17,000 15,700 14,400 13,400 10,300 8,900	37,100 * 36,600 * 35,800 * 34,500 29,000 25,800 21,100 19,200 17,600 16,200 14,900 13,800 12,800 19,900 8,800	23,300 * 22,700 * 22,700 * 22,000 * 20,100 * 18,300 17,000 15,500 14,400 13,300 12,500 9,600 8,600	16,800 16,500 16,100 15,700 14,900 13,010 12,107 9,400 8,400
(ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0 60.0 65.0 67.0 70.0 85.0 90.0 95.0 100.0	Angle (deg.) 81.3 81.3 81.3 81.4 79.5 78.6 77.7 76.9 75.9 75.0 74.1 73.2 72.2 71.3 70.4 69.4 69.4 69.4 65.1 64.6 62.2 59.6 57.0 54.3 51.6 42.4 35.4	Machine List 85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 42,800 44,000 38,000 36,000 31,600 28,100 25,200 22,900 20,900 17,500 16,100 15,000 14,000 12,100	46,400 * 44,500 41,700 39,400 37,200 35,300 29,700 26,600 24,100 21,900 15,700 15,700 13,600 11,900	29,700 * 29,400 * 29,100 * 25,500 * 23,100 * 21,100 * 19,300 * 17,700 * 16,400 * 15,300 * 11,700 * 11,	21,700 * 21,200 * 20,700 * 20,000 * 18,700 11,4900 13,900 11,600 11,600	Padius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 44.0 46.0 65.0 75.0 60.0 65.0 70.0 75.0 80.0 85.0 99.0 100.0 110.0	Angle (deg.) 81.9 81.9 81.1 80.3 79.4 78.6 77.8 76.9 75.2 74.4 73.5 72.7 71.8 66.6 64.3 62.0 59.7 57.3 54.8 40.8	0 Degree Machine List 71,800 * 70,800 * 69,000 * 60,500 56,000 52,000 48,200 45,400 42,600 39,800 31,400 22,600 20,500 18,700 15,900 15,900 14,600 13,600 11,900	11.500 * 40,600 * 38,900 36,800 34,900 29,400 21,300 19,500 17,800 16,400 15,200 14,100 13,100 11,400	25,100 * 24,500 * 20,500 18,700 17,200 14,700 12,800 11,200	19,200 * 18,700 * 17,900 * 17,400 * 16,600 14,300 12,500 11,000	Radius (ft) 26.00 38.00 32.00 34.00 36.00 38.00 44.00 44.00 45.00 55.00 65.00 75.00 85.00 90.00 90.00 110.00 110.00 120.00	Angle (deg.) 81.7 81.7 80.9 80.1 79.4 78.6 77.8 77.0 76.5 74.7 73.9 73.1 72.3 70.3 66.2 64.0 61.9 59.6 57.4 55.2 52.8 52.8 345.1 39.3	0 Degree Machine List 62,200 * 61,300 * 60,400 * 59,400 * 57,200 * 54,100 * 51,000 * 48,000 37,500 31,200 27,600 22,400 20,300 18,500 17,000 11,700 11,4000 11,700 10,300	37,100 * 36,600 * 35,800 * 34,500 29,000 25,800 21,100 19,200 17,600 16,200 14,900 13,800 11,200 9,900	23,300 * 22,700 * 21,600 * 20,100 * 18,300 17,000 15,500 14,400 13,300 10,900 9,600	16,800° 16,500° 15,700° 15,400° 14,900° 13,000° 12,000° 9,400° 9,400°

Refer to notes on page 32.

Barge

5 Counterweights (69,000 lbs) - 2 Carbody weights (31,800 lbs) - Crawlers in extended position.

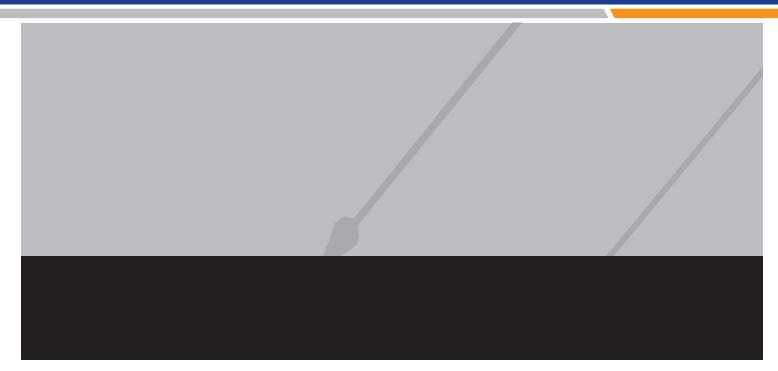
	160' Boom						170)' Boo	m				180)' Boo	m		180' Boom				
		3	60° Rated	d Load (Ib	os)			3	60° Rated	l Load (lb	os)			3	60° Rated	l Load (lb	s)				
Radius	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List				
	81.5	50,200 *				30.0	81.3	44,500 *				30.0	81.8	39,300 *							
30.0 32.0	80.8 80.1	50,100 * 49,700 *				32.0 34.0	80.7 80.0	43,900 * 43,200 *				32.0 34.0	81.2 80.5	38,800 * 38,200 *							
34.0	79.4	49,200*				36.0	79.3	42,500 *				36.0	79.9	37,600 *							
36.0	78.6 77.9	48,500 *				38.0 40.0	78.6 77.9	41,900 *				38.0 40.0	79.2 78.6	37,000 * 36,400 *							
38.0 40.0	77.2	47,800 * 46,600 *				42.0	77.2	41,200 * 40,600 *				40.0	77.9	35,800 *							
42.0	76.4	44,300 *				44.0	76.5	40,000 *				44.0	77.2	35,100*							
44.0 46.0	75.6 74.9	42,100 * 39,800	32,200 * 31,700 *			46.0 48.0	75.8 75.1	39,300 * 37,400 *	28,400 *			46.0 48.0	76.6 75.9	34,500 * 33,900 *							
	74.1	37,800	31,300 *			50.0	74.4	35,400 *	28,100*			50.0	75.3	33,300*							
	73.4	35,800	31,000 *			55.0	72.6	31,200	27,100*	17,700 *		55.0	73.7	30,800*	24,200*						
55.0 60.0	71.5 69.6	31,400 27,800	28,900 * 26,000	20,000 * 19,300 *		60.0 65.0	70.9 69.1	27,600 24,600	25,400 * 23,000	17,300 * 16,900 *		60.0 65.0	72.0 70.3	27,400 24,400	22,900 * 21,800 *	15,300 * 15,100 *					
	67.7	25,000	23,400	18,900 *	14,400*	70.0	67.3	22,300	20,900	16,400 *	12,400 *	70.0	68.6	21,900	20,400 *	14,600 *	10,800 *				
70.0	65.8	22,600	21,200	18,500 *	14,000 *	75.0	65.4	20,300	19,000	16,000 *	12,200*	75.0	66.9	19,900	18,700	14,200*	10,600*				
75.0 80.0	63.8 61.8	20,500 18,700	19,300 17,700	18,000 * 16,900	13,700 * 13,400 *	80.0 85.0	63.5 61.6	18,500 16,800	17,400 16,000	15,600 * 15,300 *	11,800 * 11,500 *	80.0 85.0	65.2 63.4	18,100 16,600	17,100 15,700	13,800 * 13,500 *	10,400 * 10,000 *				
85.0	59.7	17,000	16,300	15,600	13,100 *	90.0	59.7	15,400	14,700	14,000	11,300 *	90.0	61.6	15,200	14,400	12,900 *	9,700 *				
90.0	57.6	15,700	15,000	14,300	12,800 *	95.0	57.8	14,300	13,600	13,200	11,100 *	95.0	59.8	14,000	13,200	12,200*	9,500 *				
95.0 100.0	55.4 53.2	14,500 13,500	13,900 12,900	13,500 12,400	12,400 * 12,000	100.0	55.8 51.5	13,300 11,500	12,600 10,900	12,100 10,600	10,800 * 10,100 *	100.0 110.0	57.9 54.0	12,900 11,100	12,300 10,600	11,600 * 10,300	9,300 * 8,500 *				
110.0	48.6	11,700	11,100	10,900	10,600	120.0	47.0	9,800	9,600	9,300	9,000	120.0	49.9	9,600	9,100	8,800	7,700 *				
120.0	43.6	10,100	9,800	9,600	9,300	130.0	42.2	8,700	8,400	8,200	8,000	130.0	45.6	8,500	8,000	7,700	6,900 *				
130.0 140.0	38.1 31.6	8,900 7,900	8,600 7,800	8,500 7,600	8,300 7,500	140.0 150.0	36.8 30.5	7,700 6,800	7,300 6,500	7,100 6,400	7,000 6,200 *	140.0 150.0	40.9 35.7	7,400 6,500	7,000 6,200	6,900 6,000	6,000 * 5,000 *				
	23.7	7,100	6,900	6,800	6,700	160.0	23.2	5,900	5,800 *	5,800 *	5,100 *	160.0	29.7	5,600	5,400	5,000 *	4,200 *				
igsquare					·			·			·	165.0	26.5	5,100	5,100	4,400 *	3,600 *				
Ree		2	2	2	2	Ree	eves	2	2	2	2	Ree	eves	2	2	2	2				
	190)' Boo					200)' Boo													
Lood	Poom		60° Rated			Lood	Poom		60° Rated												
Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine	2 Degree Machine	Load Radius	Boom Angle	0 Degree Machine	1 Degree	2 Degree	2 Degree										
32.0				List	List	(ft)	(deg.)	List	Machine List	Machine List	Machine List										
34.0	81.6 81.0	34,400 * 33,800 *		LISI	List	(ft) 34.0	(deg.) 81.5	List 30,300 *													
34.0 36.0	81.6 81.0 80.4	34,400 * 33,800 * 33,300 *		ЦЯ	List	(ft)	(deg.)	List													
36.0 38.0	81.0 80.4 79.8	33,800 * 33,300 * 32,700 *		List	List	(ft) 34.0 36.0 38.0 40.0	81.5 80.9 80.3 79.7	List 30,300 * 29,700 * 29,200 * 28,700 *													
36.0 38.0 40.0	81.0 80.4 79.8 79.2	33,800 * 33,300 * 32,700 * 32,200 *		List	List	(ft) 34.0 36.0 38.0 40.0 42.0	81.5 80.9 80.3 79.7 79.1	List 30,300 * 29,700 * 29,200 * 28,700 * 28,200 *													
36.0 38.0	81.0 80.4 79.8	33,800 * 33,300 * 32,700 *		Da	List	(ft) 34.0 36.0 38.0 40.0	81.5 80.9 80.3 79.7	List 30,300 * 29,700 * 29,200 * 28,700 *													
36.0 38.0 40.0 42.0 44.0 46.0	81.0 80.4 79.8 79.2 78.6 78.0 77.4	33,800 * 33,300 * 32,700 * 32,200 * 31,700 * 31,100 * 30,600 *		DA .	List	(ft) 34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0	81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4	List 30,300 * 29,700 * 29,200 * 28,700 * 28,200 * 27,700 * 27,300 * 26,800 *													
36.0 38.0 40.0 42.0 44.0 46.0 48.0	81.0 80.4 79.8 79.2 78.6 78.0 77.4 76.7	33,800 * 33,300 * 32,700 * 32,200 * 31,700 * 31,100 * 30,600 * 30,100 *		ПЯ	List	(ft) 34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0 50.0	81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4 76.8	List 30,300 * 29,700 * 29,200 * 28,700 * 28,200 * 27,700 * 27,300 * 26,800 * 26,300 *													
36.0 38.0 40.0 42.0 44.0 46.0 48.0 50.0 55.0	81.0 80.4 79.8 79.2 78.6 78.0 77.4	33,800 * 33,300 * 32,700 * 32,200 * 31,700 * 31,100 * 30,600 * 30,100 * 29,600 *	21,700*	LX	List	(ft) 34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0	81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4	29,700 * 29,700 * 28,700 * 28,700 * 27,700 * 27,300 * 26,800 * 26,300 * 24,900 *													
36.0 38.0 40.0 42.0 44.0 46.0 48.0 50.0 55.0 60.0	81.0 80.4 79.8 79.2 78.6 78.0 77.4 76.7 76.1 74.5 73.0	33,800 * 33,300 * 32,700 * 32,200 * 31,700 * 31,100 * 30,600 * 30,100 * 29,600 * 28,100 * 26,200 *	20,600 *		List	(ft) 34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0 50.0 60.0 65.0	81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4 76.8 75.3 73.8 72.4	List 30,300 * 29,700 * 29,200 * 28,700 * 28,200 * 27,700 * 27,300 * 26,800 * 26,300 * 24,900 * 23,200 * 21,500 *	List 18,200 * 17,100 *	List 11,700*											
36.0 38.0 40.0 42.0 44.0 46.0 48.0 50.0 55.0 60.0 65.0	81.0 80.4 79.8 79.2 78.6 78.0 77.4 76.7 76.1 74.5	33,800 * 33,300 * 32,700 * 32,200 * 31,700 * 31,100 * 30,600 * 29,600 * 28,100 *		13,300 * 13,100 *	List	(ft) 34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0 50.0 60.0	81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4 76.8 75.3 73.8	List 30,300 * 29,700 * 29,200 * 28,700 * 28,200 * 27,700 * 27,300 * 26,800 * 26,300 * 24,900 * 23,200 *	List 18,200 *	<u>Lia</u>											
36.0 38.0 40.0 42.0 44.0 46.0 48.0 50.0 55.0 60.0 65.0 70.0 75.0	81.0 80.4 79.8 79.2 78.6 78.0 77.4 76.7 76.1 74.5 73.0 71.4 69.8 68.2	33,800 * 32,700 * 32,200 * 31,700 * 30,600 * 30,100 * 29,600 * 26,200 * 24,000 *	20,600 * 19,500 * 18,400 * 17,300 *	13,300 * 13,100 * 12,700 *	9,200*	(ft) 34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0 55.0 60.0 65.0 70.0 75.0 80.0	81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4 76.8 75.3 73.8 72.4 70.9	List 30,300 * 29,700 * 29,200 * 28,700 * 28,200 * 27,700 * 26,800 * 26,300 * 24,900 * 21,500 * 20,000 * 18,500 * 17,100 *	18,200 * 17,100 * 16,100 * 15,100 * 14,100 *	11,700 * 11,300 *											
36.0 38.0 40.0 42.0 44.0 46.0 48.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0	81.0 80.4 79.8 79.2 78.6 78.0 77.4 76.1 74.5 73.0 71.4 69.8 68.2 66.5	33,800 * 33,300 * 32,700 * 32,200 * 31,700 * 31,100 * 30,600 * 30,100 * 29,600 * 28,100 * 24,000 * 21,800 19,900 18,000	20,600 * 19,500 * 18,400 * 17,300 * 16,200 *	13,300 * 13,100 * 12,700 * 12,400 *	9,200 * 9,000 *	(ft) 34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0	(deg.) 81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4 76.8 75.3 73.8 72.4 70.9 69.3 67.8 66.2	List 30,300 * 29,700 * 29,200 * 28,700 * 28,700 * 27,700 * 27,300 * 26,800 * 26,300 * 24,900 * 23,200 * 21,500 * 11,500 * 17,100 * 15,900 *	18,200 * 17,100 * 16,100 * 14,100 * 13,300 *	11,700 * 11,300 * 11,000 * 10,600 * 10,100 *	7,700* 7,500*										
36.0 38.0 40.0 42.0 44.0 46.0 48.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0	81.0 80.4 79.8 79.2 78.6 78.0 77.4 76.7 76.1 74.5 73.0 71.4 69.8 68.2 66.5 64.9	33,800 * 33,300 * 32,700 * 32,200 * 31,700 * 31,100 * 30,100 * 29,600 * 28,100 * 24,000 * 21,800 19,900 18,000 16,400	20,600 * 19,500 * 18,400 * 17,300 * 16,200 * 15,300 *	13,300 * 13,100 * 12,700 * 12,400 * 11,900 *	9,200 * 9,000 * 8,800 *	(ft) 34.0 36.0 38.0 40.0 42.0 44.0 46.0 50.0 55.0 60.0 75.0 80.0 85.0 90.0	(deg.) 81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4 76.8 75.3 73.8 72.4 70.9 69.3 67.8 66.2 64.6	List 30,300 * 29,700 * 29,200 * 28,700 * 28,700 * 28,700 * 27,700 * 27,300 * 26,800 * 24,900 * 23,200 * 21,500 * 20,000 * 11,500 * 11,500 * 14,700	18,200 * 17,100 * 16,100 * 14,100 * 13,300 * 12,400 *	11,700 * 11,300 * 10,600 * 10,100 * 9,500 *	7,700 * 7,500 * 7,200 *										
36.0 38.0 40.0 42.0 44.0 46.0 48.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0	81.0 80.4 79.8 79.2 78.6 78.0 77.4 76.7 74.5 73.0 69.8 68.2 66.5 64.9 63.2 61.5	33,800 * 33,300 * 32,700 * 32,200 * 31,700 * 31,100 * 30,600 * 29,600 * 28,100 * 26,200 * 24,000 * 21,800 19,900 18,000 16,400 15,000 13,900	20,600 * 19,500 * 18,400 * 17,300 * 16,200 * 15,300 * 14,100 13,000	13,300 * 13,100 * 12,700 * 12,400 * 11,300 * 11,300 * 10,600 *	9,200 * 9,000 * 8,800 * 8,600 * 8,400 *	(t) 34.0 36.0 40.0 42.0 44.0 44.0 48.0 55.0 65.0 75.0 80.0 75.0 80.0 85.0 90.0 95.0 100.0	(deg.) 81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4 76.8 75.3 73.8 72.4 70.9 69.3 67.8 66.2 64.6 63.0 61.4	List 30,300 * 29,700 * 29,200 * 28,700 * 28,200 * 27,700 * 26,300 * 26,300 * 24,900 * 21,500 * 20,000 * 11,500 * 15,900 * 14,700 13,500 12,400	18,200 * 17,100 * 16,100 * 13,300 * 11,700 * 11,700 * 11,000 *	11,700 * 11,300 * 11,000 * 10,100 * 9,500 * 9,000 * 8,400 *	7,700 * 7,500 * 7,000 * 6,800 *										
36.0 38.0 40.0 42.0 44.0 46.0 48.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0	81.0 80.4 79.8 79.2 78.6 78.0 77.4 76.7 74.5 73.0 69.8 68.2 66.5 64.9 63.2 61.5 59.7	33,800 * 33,300 * 32,700 * 32,200 * 31,700 * 31,100 * 30,600 * 29,600 * 28,100 * 24,000 * 21,800 19,900 18,000 15,000 13,900 12,900	20,600 * 19,500 * 18,400 * 17,300 * 16,200 * 15,300 * 14,100 13,000	13,300 * 13,100 * 12,700 * 12,400 * 11,300 * 11,300 * 10,600 * 10,000 *	9,200 * 9,000 * 8,800 * 8,600 * 8,400 * 8,200 *	(t) 34.0 36.0 38.0 40.0 42.0 44.0 44.0 48.0 55.0 60.0 65.0 75.0 80.0 85.0 90.0 95.0 100.0 110.0	(deg.) 81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4 76.8 75.3 73.8 72.4 70.9 69.3 67.8 66.2 64.6 63.0 61.4 58.1	List 30,300 * 29,700 * 29,700 * 29,200 * 28,700 * 28,200 * 27,700 * 26,800 * 26,300 * 24,900 * 23,200 * 20,000 * 18,500 * 17,100 * 15,900 * 14,700 12,400 10,600	18,200 * 17,100 * 16,100 * 13,300 * 12,400 * 11,700 * 11,000 * 9,500 *	11,700 * 11,300 * 10,600 * 10,100 * 9,500 * 8,400 * 7,400 *	7,700 * 7,500 * 7,000 * 6,800 * 6,000 *										
36.0 38.0 40.0 42.0 44.0 46.0 48.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0	81.0 80.4 79.8 79.2 78.6 78.0 77.4 76.7 74.5 73.0 69.8 68.2 66.5 64.9 63.2 61.5	33,800 * 33,300 * 32,700 * 32,200 * 31,700 * 31,100 * 30,600 * 29,600 * 28,100 * 26,200 * 24,000 * 21,800 19,900 18,000 16,400 15,000 13,900	20,600 * 19,500 * 18,400 * 17,300 * 16,200 * 15,300 * 14,100 13,000	13,300 * 13,100 * 12,700 * 12,400 * 11,300 * 11,300 * 10,600 *	9,200 * 9,000 * 8,800 * 8,600 * 8,400 *	(t) 34.0 36.0 40.0 42.0 44.0 44.0 48.0 55.0 65.0 75.0 80.0 75.0 80.0 85.0 90.0 95.0 100.0	(deg.) 81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4 76.8 75.3 73.8 72.4 70.9 69.3 67.8 66.2 64.6 63.0 61.4	List 30,300 * 29,700 * 29,200 * 28,700 * 28,200 * 27,700 * 26,800 * 26,300 * 24,900 * 21,500 * 20,000 * 11,500 * 15,900 * 14,700 13,500 12,400	18,200 * 17,100 * 16,100 * 13,300 * 11,700 * 11,700 * 11,000 *	11,700 * 11,300 * 11,000 * 10,100 * 9,500 * 9,000 * 8,400 *	7,700 * 7,500 * 7,000 * 6,800 *										
36.0 38.0 40.0 42.0 44.0 46.0 50.0 55.0 60.0 65.0 70.0 85.0 90.0 85.0 90.0 110.0 120.0 130.0	81.0 80.4 79.8 79.2 78.6 78.0 77.4 76.1 74.5 73.0 68.2 66.5 64.9 63.2 61.5 59.7 56.2 52.5 48.5	33,800 * 33,300 * 32,700 * 32,200 * 31,700 * 31,700 * 31,100 * 29,600 * 28,100 * 24,000 * 21,800 18,000 16,400 15,000 13,900 12,900 11,000 9,400 8,200	20,600 * 19,500 * 18,400 * 17,300 * 16,200 * 15,300 * 14,100 13,000 12,000 10,400 9,100 7,800	13,300 * 13,100 * 12,700 * 12,400 * 11,300 * 10,000 * 7,900 * 6,800 *	9,200 * 9,000 * 8,800 * 8,600 * 8,400 * 8,200 * 6,500 * 5,700 *	(ft) 34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0 55.0 60.0 65.0 75.0 80.0 85.0 90.0 95.0 100.0 1120.0 130.0 140.0	(deg.) 81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4 76.8 75.3 73.8 72.4 70.9 69.3 66.2 64.6 63.0 64.0 58.1 54.6 51.1 47.2	List 30,300 * 29,700 * 29,200 * 28,700 * 28,200 * 27,700 * 27,300 * 26,800 * 26,300 * 24,900 * 23,200 * 21,500 * 17,100 * 15,900 * 14,700 13,500 12,400 10,600 9,200 7,800 6,500	18,200 * 17,100 * 15,100 * 11,000 * 11,000 * 9,500 * 7,100 * 5,900 *	11,700 * 11,300 * 11,000 * 10,600 * 10,100 * 9,500 * 9,000 * 8,400 * 4,600 * 4,600 *	7,700 * 7,500 * 7,200 * 7,000 * 6,800 * 5,200 * 4,500 * 3,700 *										
36.0 38.0 40.0 44.0 44.0 46.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 110.0 120.0 130.0 140.0	81.0 80.4 79.8 79.2 78.6 78.0 77.4 76.1 74.5 73.0 68.2 66.5 64.9 63.2 61.5 59.7 56.2 52.5 48.5 44.3	33,800 * 33,300 * 32,700 * 32,200 * 31,700 * 31,700 * 31,100 * 30,600 * 29,600 * 28,100 * 24,000 * 21,800 18,000 16,400 15,000 12,900 11,000 11,000 9,400 8,200 7,200	20,600 * 19,500 * 18,400 * 17,300 * 16,200 * 15,300 * 14,100 13,000 12,000 10,400 9,100 7,800 6,800	13,300 * 13,100 * 12,700 * 12,400 * 11,900 * 11,300 * 10,600 * 10,000 * 8,900 * 7,900 * 6,800 * 5,900 *	9,200 * 9,000 * 8,800 * 8,600 * 8,400 * 8,200 * 7,400 * 6,500 * 5,700 * 4,900 *	(ft) 34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0 55.0 60.0 65.0 75.0 80.0 95.0 100.0 110.0 120.0 130.0 140.0 150.0	(deg.) 81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4 76.8 75.3 73.8 72.4 66.2 64.6 63.0 61.4 58.1 47.2 43.1	List 30,300 * 29,700 * 29,200 * 28,700 * 28,200 * 27,700 * 26,800 * 26,800 * 26,300 * 24,900 * 21,500 * 20,000 * 11,100 * 14,700 13,500 12,400 10,600 9,200 6,500 * 5,200 *	18,200 * 17,100 * 16,100 * 12,400 * 11,700 * 11,700 * 11,000 * 9,500 * 8,200 * 7,100 * 5,900 * 4,900 *	11,700 * 11,300 * 11,000 * 10,600 * 9,500 * 9,000 * 8,400 * 7,400 * 6,500 * 4,600 * 3,700 *	7,700 * 7,500 * 7,200 * 7,000 * 6,800 * 6,000 * 5,200 * 4,500 *										
36.0 38.0 40.0 44.0 44.0 46.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 110.0 120.0 130.0 140.0	81.0 80.4 79.8 79.2 78.6 78.0 77.4 76.1 74.5 73.0 68.2 66.5 64.9 63.2 61.5 59.7 56.2 52.5 48.5	33,800 * 33,300 * 32,700 * 32,200 * 31,700 * 31,700 * 31,100 * 29,600 * 28,100 * 24,000 * 21,800 18,000 16,400 15,000 13,900 12,900 11,000 9,400 8,200	20,600 * 19,500 * 18,400 * 17,300 * 16,200 * 15,300 * 14,100 13,000 12,000 10,400 9,100 7,800	13,300 * 13,100 * 12,700 * 12,400 * 11,300 * 10,000 * 7,900 * 6,800 *	9,200 * 9,000 * 8,800 * 8,600 * 8,400 * 8,200 * 6,500 * 5,700 *	(ft) 34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0 55.0 60.0 65.0 75.0 80.0 85.0 90.0 95.0 100.0 1120.0 130.0 140.0	(deg.) 81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4 76.8 75.3 73.8 72.4 70.9 69.3 66.2 64.6 63.0 64.0 58.1 54.6 51.1 47.2	List 30,300 * 29,700 * 29,200 * 28,700 * 28,200 * 27,700 * 27,300 * 26,800 * 26,300 * 24,900 * 23,200 * 21,500 * 17,100 * 15,900 * 14,700 13,500 12,400 10,600 9,200 7,800 6,500	18,200 * 17,100 * 15,100 * 11,000 * 11,000 * 9,500 * 7,100 * 5,900 *	11,700 * 11,300 * 11,000 * 10,600 * 10,100 * 9,500 * 9,000 * 8,400 * 4,600 * 4,600 *	7,700 * 7,500 * 7,200 * 7,000 * 6,800 * 5,200 * 4,500 * 3,700 *										
36.0 38.0 40.0 42.0 44.0 46.0 50.0 55.0 60.0 65.0 70.0 80.0 95.0 100.0 110.0 120.0 130.0 140.0 150.0 160.0	81.0 80.4 79.8 79.2 78.6 78.0 77.4 76.7 74.5 73.0 71.4 69.8 68.2 66.5 64.9 63.2 61.5 59.7 56.2 52.5 48.5 44.3 39.7	33,800 * 33,300 * 32,700 * 32,200 * 31,700 * 31,700 * 30,600 * 30,100 * 29,600 * 28,100 * 24,000 * 21,800 18,000 18,000 15,000 13,900 11,000 9,400 7,200 6,300	20,600 * 19,500 * 18,400 * 17,300 * 16,200 * 15,300 * 14,100 13,000 12,000 10,400 9,100 7,800 6,800 5,900	13,300 * 13,100 * 12,700 * 12,400 * 11,900 * 10,600 * 10,000 * 8,900 * 7,900 * 6,800 * 5,900 * 5,100 *	9,200 * 9,000 * 8,800 * 8,600 * 8,400 * 7,400 * 6,500 * 5,700 * 4,900 * 4,100 *	(ft) 34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0 55.0 60.0 65.0 75.0 80.0 95.0 100.0 110.0 120.0 130.0 140.0 150.0	(deg.) 81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4 76.8 75.3 73.8 72.4 66.2 64.6 63.0 61.4 58.1 47.2 43.1	List 30,300 * 29,700 * 29,200 * 28,700 * 28,200 * 27,700 * 26,800 * 26,800 * 26,300 * 24,900 * 21,500 * 20,000 * 11,100 * 14,700 13,500 12,400 10,600 9,200 6,500 * 5,200 *	18,200 * 17,100 * 16,100 * 12,400 * 11,700 * 11,700 * 11,000 * 9,500 * 8,200 * 7,100 * 5,900 * 4,900 *	11,700 * 11,300 * 11,000 * 10,600 * 9,500 * 9,000 * 8,400 * 7,400 * 6,500 * 4,600 * 3,700 *	7,700 * 7,500 * 7,200 * 7,000 * 6,800 * 5,200 * 4,500 * 3,700 *										
36.0 38.0 40.0 42.0 44.0 46.0 50.0 55.0 60.0 65.0 70.0 80.0 95.0 100.0 110.0 120.0 130.0 140.0 150.0 160.0	81.0 80.4 79.8 79.2 78.6 77.4 76.7 76.1 74.5 73.0 71.4 69.8 66.2 66.5 64.9 63.2 61.5 59.7 56.2 52.5 44.3 39.7 34.8 32.1	33,800 * 33,300 * 32,700 * 32,200 * 31,700 * 31,100 * 30,600 * 30,100 * 29,600 * 24,000 * 21,800 19,900 16,400 15,000 12,900 11,000 9,400 8,200 7,200 6,300 5,300	20,600 * 19,500 * 18,400 * 17,300 * 16,200 * 15,300 * 14,100 13,000 12,000 9,100 7,800 6,800 5,900 5,100 *	13,300 * 13,100 * 12,700 * 12,400 * 11,900 * 11,300 * 10,000 * 8,900 * 7,900 * 6,800 * 5,100 * 4,000 *	9,200 * 9,000 * 8,800 * 8,600 * 8,400 * 7,400 * 6,500 * 5,700 * 4,900 * 4,100 *	(ft) 34.0 36.0 38.0 44.0 44.0 44.0 45.0 65.0 65.0 75.0 80.0 85.0 99.0 110.0 110.0 120.0 1155.0	(deg.) 81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4 76.8 75.3 73.8 72.4 66.2 64.6 63.0 61.4 58.1 47.2 43.1	List 30,300 * 29,700 * 29,200 * 28,700 * 28,200 * 27,700 * 26,800 * 26,800 * 26,300 * 24,900 * 21,500 * 20,000 * 11,100 * 14,700 13,500 12,400 10,600 9,200 6,500 * 5,200 *	18,200 * 17,100 * 16,100 * 12,400 * 11,700 * 11,700 * 11,000 * 9,500 * 8,200 * 7,100 * 5,900 * 4,900 *	11,700 * 11,300 * 11,000 * 10,600 * 9,500 * 9,000 * 8,400 * 7,400 * 6,500 * 4,600 * 3,700 *	7,700 * 7,500 * 7,200 * 7,000 * 6,800 * 5,200 * 4,500 * 3,700 *										

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CK1100G SPECIFICATIONS

NOTES	



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