



**SANY**  
AMERICA INC.

# **SCC8300**

Crawler Crane



- 330 US Tons (300 Metric Tons) @ 18 ft Radius
- 304 ft Max Tip Height (Main Boom)
- Main Boom, Fixed Jib and Luffing Jib Configurations

## Product Guide

## ULTRA CAB



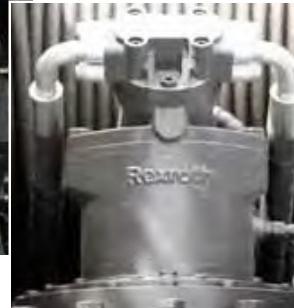
The Ultra Cab, designed by Porsche, maximizes glass space for optimal operator visibility. The working lights and light bar are standard and well positioned. Equipped with adjustable seats and air conditioner. The cab can have a 20° upward angle, and be rotated to the front of platform. Both overhead and bottom view to expand the operating view of drivers and operational safety.

## SANY DESIGNED LML

SANY designed LML is prominently displayed. It is user friendly, simple to set up and operate. The console also features large TV monitors.



## HIGH QUALITY, NAME BRAND COMPONENTS



**Cummins** engine coupled to **Rexroth** hydraulic components deliver high reliability and consistent performance.

**SCC8300**

- Engine: Cummins QSM11, 400 hp @ 1800 rpm
- Hydraulic system: Rexroth pumps and drive motors
- SANY-designed LML with large display screen
- Ultra Cab, styled by Porsche Design Studios
- Seven configurations available for main boom, fixed jib, and luffing jib
- Key standard features
  - Main drum bail limits
  - Main drum and rear counterweight camera system
  - Basic machine lighting package
  - Aircraft warning light

Maximum Capacity @ Radius	330 US T @ 17 ft
Main Boom	3,6 & 11.5 Meter Sections 65 ft 6 in - 301 ft 10 in
Max Tip Height (H Main Boom)	304 ft
Fixed Jib Length	42 ft 8 in - 137 ft 9 in
Luffing Jib Length	59 ft 1 in - 216 ft 6 in
Main Winch - Rated Line Pull	33,069 lb
Wire Rope Diameter	28 mm
Weight	
Basic Machine (Without Track Frames or Boom Butt)	99,200 lb
Total Counterweight (Series 2)	407,856 lb
Length	
Basic Machine - Transport	41 ft 10 in
Height	
Basic Machine - Transport	10 ft 6 in
Width	
Basic Machine - Transport	9 ft 10 in
Tail Swing	23 ft

## UPPERWORKS

### ENGINE

Cummins Model QSM11, Tier 3  
Power..... 400 hp (298kW)  
Fuel Tank ..... 277 gal (1048L)



### HYDRAULIC SYSTEM

Includes: hoisting system, travel system, swing system, luffing system, backstay system, cooling system, auxiliary hydraulic system, and servo hydraulic system. Open loop circuit for main system and close loop for swing system. Automatic load centering function. Electric-over-hydraulic control components are used. Micro-motion control available. Three 211 gallon oil return filters with multiple pressure alarm, filter plugging alarm, and counterbalance valve for each open circuit motor. 225 gallon hydraulic reservoir with two 120-volt, 1.5kw heaters. Oil-pneumatic cylinders for backstay; compression extent in proportion to backstay force; maximum backstay force for main boom is 90,400 lbs and maximum backstay force for front strut of luffing jib is 68,350 lbs.



### CONTROLS

Advanced SYMC (SANY Motion Controller), Rated Capacity Limiter (RCL) and closed circuit TV monitoring system are used. The RCL display (8.4"), CCTV display (7"), integrated instrument display (8"), etc., is readily visible to the operator. CAN bus is used to transfer data among the controllers, displays operating handles, engine and RCL..



### DRUMS

The displacement hydraulic motor drives the planet gear speed reducer to raise and lower the load.  
Rope Diameter ..... 28 mm  
Max Line Speed ..... 466 ft/min  
Single Line Pull ..... 33,000 lbs  
Max Spooling Main..... 2,329 ft  
Whip ..... 1,772 ft



### SWING SYSTEM

Single motor with large displacement and planetary gear reducer, automatic load centering and 360° rotation.  
Maximum Swing Speed..... 1.85 rev/min  
Tail Swing..... 21 ft. 1 in.

### COUNTERWEIGHT

#### SERIES 1

1 – Upperworks Tray .....	35,274 lbs
8 – Upper Side Block .....	141,096 lbs
(17,637 lbs each)	
Total .....	176,370 lbs



#### SERIES 2

1 – Upperworks Tray .....	35,274 lbs
14 – Upper Side Block .....	246,918 lbs
(17,637 lbs each)	
2 – Lower Tray .....	55,116 lbs
(27,558 lbs each)	
4 – Carbody Block.....	70,548 lbs
(17,637 lbs each)	
Total .....	407,856 lbs

**ULTRA CAB**

All-enclosed steel frame structure; reinforced glass is installed at the front and back; GE structural plates are installed on the top, providing good light transmission, high strength and high abrasion resistance, and low indoor noise (below 85dB). Inside includes fire extinguisher and alarm device, and CCTV monitoring system, etc. One 24V USB port, Ergonomic design, Broad view with maximum elevation of 25°.

**LOWERWORKS****CARBODY**

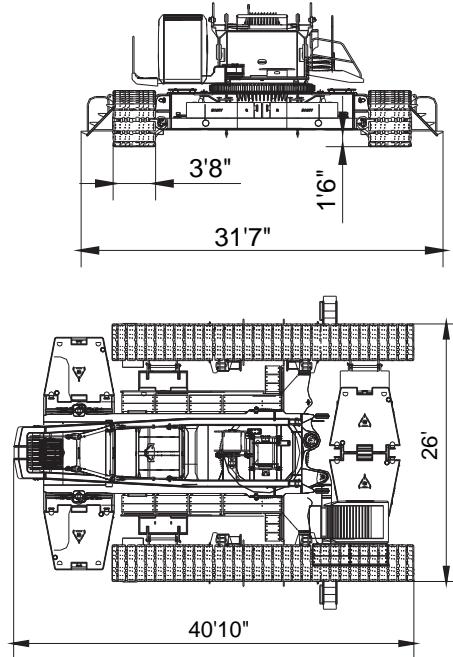
High-strength steel frame structure. Hydraulic cylinder drives power pin.

**CRAWLERS**

Of 3'8" wide, the crawler is tensioned with a hydraulic cylinder and held in place by a quantity of shims.

## Travel speed

Low Speed ..... 0-0.3 mph  
High Speed ..... 0-0.8 mph

**ATTACHMENTS****HEAVY-LIFT MAIN BOOM (H)**

Max Boom Length .....	302 ft (92.1 m)
Max Boom Combination .....	1 - 9'10" (3m) insert
.....	2 - 19'8" (6m) insert
.....	5 - 39'5" (12m) insert

**FIXED JIB (FJ) STANDARD**

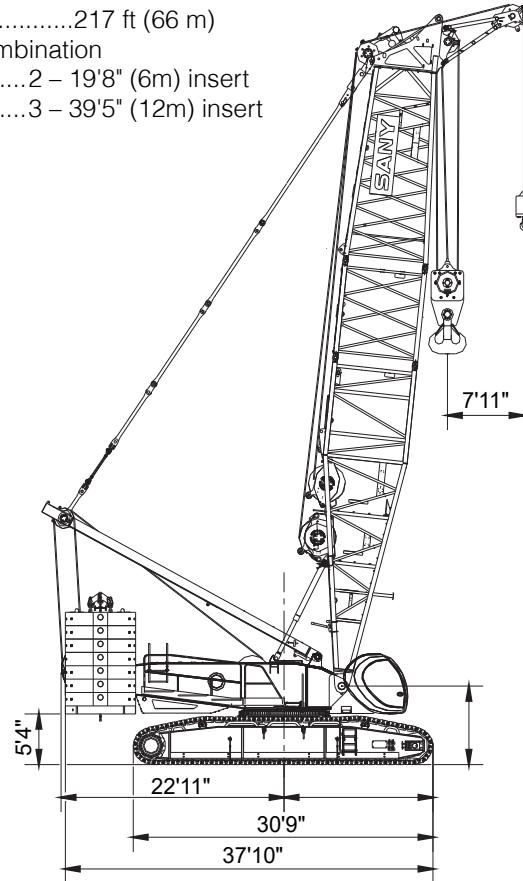
Max Std. Fixed Jib Length....	59 ft (18 m)
Max Std. Fixed Jib Combination .....	1 - 19'8" (6m) insert
.....	2 - 37'9" (11.5m) insert

**FIXED JIB HEAVY (FJH)**

Max Heavy Duty Fixed Jib Length .....	138 ft (42.1 m)
Max Heavy Duty Fixed Jib Combination .....	1 - 19'8" (6m) insert

**LUFFING JIB**

Max Jib Length .....	217 ft (66 m)
Max Luffing Jib Combination .....	2 - 19'8" (6m) insert
.....	3 - 39'5" (12m) insert



**A-Frame Alarm Device**

In installation mode, if a-frame does not rise into correct position, the system will alarm and the operator and work mode functions will be inoperative.

**Aircraft Warning Light**

Installed on the top of the boom or jib.

**Anemometer**

Installed at the top of boom or fixed jib for real-time monitoring of wind speed and transmission of data to operators cab for display on monitor.

**Anti-Two Block (ATB)**

Composed of limit switch and actuation weight on load lines to prevent excessive raising of hook block. When the lifting hook raises to its maximum height, a limit switch will activate the buzzer on the control panel, meanwhile the indicator light will blink and automatically stop the lifting operation of hook block.

**Bail Limits**

Composed of a mechanical arm with roller riding on the drum wire rope and proximity switches to inform the operator when 3 dead wraps are remaining. The system will alarm through a buzzer and alarm information will be displayed in the instrument cluster and automatically stop the drum movement.

**Boom Stop**

Composed of a spring cushioned boom stop and automatic boom stop to prevent exceeding backwards boom angle limits.

**Boom Elevation Device**

When the boom angle is greater than 81°, the buzzer will alarm, and boom control lever will be deactivated. This protection is controlled by a torque limiter and position switch. When the boom angle is less than 30°, an alarm will activate and display information in the control panel and automatically stop operation.

**Drum Locking Device**

All drums are equipped with an electric locking device. Before drum operation, operator must switch to unlock before operation.

**Emergency Stop Function**

In emergency, press the emergency stop button to cut off power supply of the machine and stop all operations.

**Function Cut-Out**

If the function lock handle is not in place, all functions for operating machine will be deactivated.

**Leveling Gauge**

Electronic leveling gauge displaying machine angle on monitor.

**Lighting**

Equipped with drum lights, lower beam in front of machine, front adjustable high beam, lighting lamps in operator's cab, lighting equipment for night operation

**Lightning Protection Device**

Including lightning protection grounding and surge protection devices to prevent damage to electrical components under lightning strikes.

**Monitoring System**

**Cameras:** 2 cameras are equipped for monitoring drum spooling, boom hoist, and rear of machine.

**Optional monitoring:** variable zoom monitoring camera system on boom top monitoring the working conditions of hook block.

**Rearview Mirror**

Installed on the right of the operator's cab for monitoring the rear of the machine

**Swing Lock**

Hydraulic power pin lock to lock the crane in front, rear, left and right positions.

**Shove-Off Seat Protection**

The operator must be seated for all machine functions to work

**Signs for Boom Angle**

Pendulum angle indicator device is located in boom base next to the cab for operator convenience.

**Sound and Light Alarming Device**

When engine is running, lights will flash; when traveling or swinging, alarm will sound.

**Switch of Installation Mode / Work Mode**

In installation mode, bail limits, boom elevation device, and torque limiter are inoperative to facilitate crane installation. In operation mode, all the safety limits return to normal.

### Three-Color Load Warning Light

There is green, yellow and red load warning lights, simultaneous displaying real-time load. When the actual load is less than 92% of rated load, the green light is on; when the actual load is between 92% and 100% of the rated load, the yellow light is on, the pre-warning lights will flash and intermittent alarm will be issued; when the actual load reaches 100% of rated load, the red light is on, the pre-warning lights will flash and intermittent alarm will be issued; when the actual load reaches 102% of rated load, the machine will automatically stop hoisting functions.

### Torque Limiter

A completely separate and secure computer-controlled operating system; torque limiter can automatically detect the load of cranes and the angle of boom and show its rated load and actual load, working radius and boom angle.

**Components:** machine, monitor, angle sensors, force sensors etc.

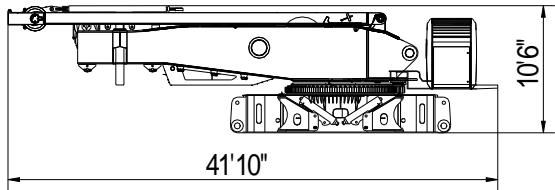
**Functions:** can display real-time rated load, actual load, working radius and boom angle, height and other data at current status of the crane and give real-time alarm if limits are exceeded.

### Turn Indicating Device

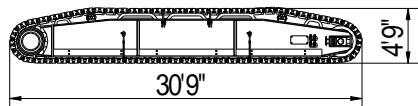
When traveling or swinging, turn indicating light blinks.

### Wire Rope Guides

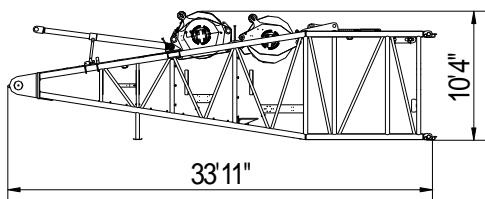
Lifting hooks are provided with guides to ensure the wire rope is maintained in the correct sheave location.

**BASE MACHINE**

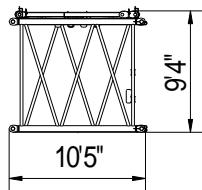
Length	41'10"
Width	9'10"
Height	10'6"
Weight	99,200 lbs

**TRACK FRAME**

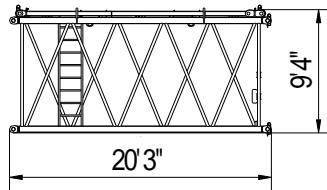
Length	30'9"
Width	3'8"
Height	4'9"
Weight	55,100 lbs

**BOOM BASE #2825A (Includes Two Drums & Rope)**

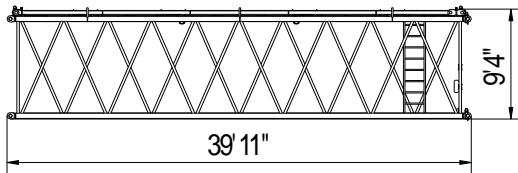
Length	33'11"
Width	9'7"
Height	10'4"
Weight	37,300 lbs

**BOOM INSERT 9'10" (3m) #2825A**

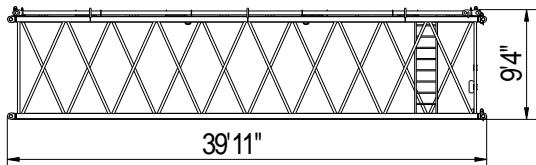
Length	10'5"
Width	9'7"
Height	9'4"
Weight	3,000 lbs

**BOOM INSERT 19'8" (6m) #2825A**

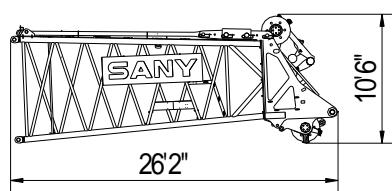
Length	20'3"
Width	9'7"
Height	9'4"
Weight	4,900 lbs

**BOOM INSERT 39'5" (12m) #2825A-I**

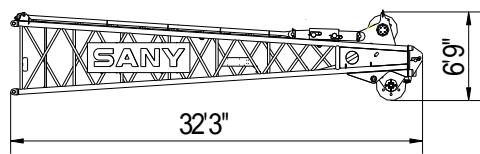
Length	39'11"
Width	9'7"
Height	9'4"
Weight	8,700 lbs

**BOOM INSERT 39'5" (12m) #2825A-II**

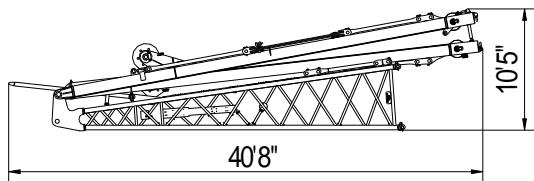
Length	39'11"
Width	9'7"
Height	9'4"
Weight	7,600 lbs

**BOOM TIP #2825A**

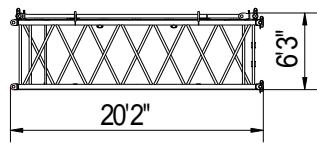
Length	26'2"
Width	9'7"
Height	10'6"
Weight	15,100 lbs

**LUFFING JIB TIP 29'6" (9m) #2316A**

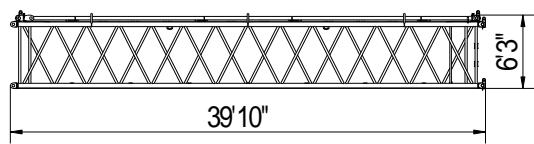
Length	32'3"
Width	7'11"
Height	6'9"
Weight	9,800 lbs

**LUFFING JIB BASE 29'6" (9m) #2316A ( Including Struts)**

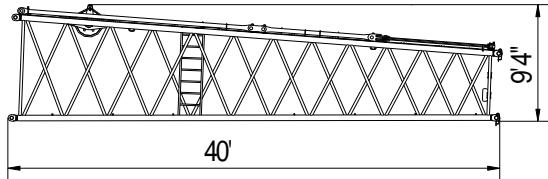
Length	40'8"
Width	7'11"
Height	10'5"
Weight	19,000 lbs

**LUFFING JIB INSERT 19'8" (6m) #2316A**

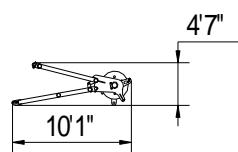
Length	20'2"
Width	7'11"
Height	6'3"
Weight	3,100 lbs

**LUFFING JIB INSERT 39'5" (12m) #2316A**

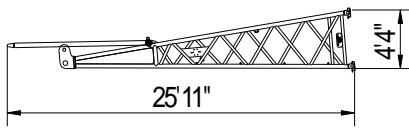
Length	39'10"
Width	7'11"
Height	6'3"
Weight	5,500 lbs

**TRANSITION INSERT 39'5" (12m) #2825A /NO. 2316A**

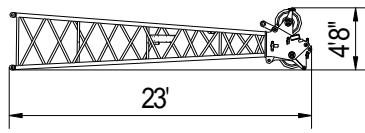
Length	40'
Width	9'7"
Height	9'4"
Weight	7,700 lbs

**UPPER BOOM POINT**

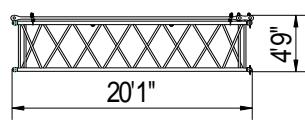
Length	10'1"
Width	3'6"
Height	4'7"
Weight	1,400 lbs

**STANDARD FIXED JIB BASE 21'4" (6.5m) #1412A**

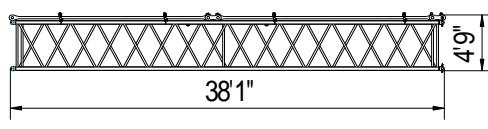
Length	25'11"
Width	4'3"
Height	4'4"
Weight	2,800 lbs

**STANDARD FIXED JIB TIP 21'4" (6.5m) #1412A**

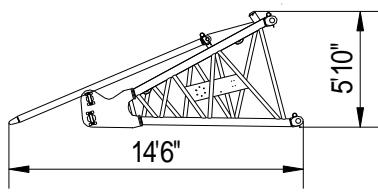
Length	23'
Width	4'3"
Height	4'8"
Weight	3,100 lbs

**STANDARD FIXED JIB INSERT 19'8" (6m) #1412A**

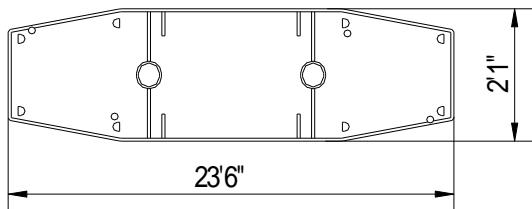
Length	20'1"
Width	4'3"
Height	4'9"
Weight	1,700 lbs

**STANDARD FIXED JIB INSERT 37'9" (11.5m) #1412A**

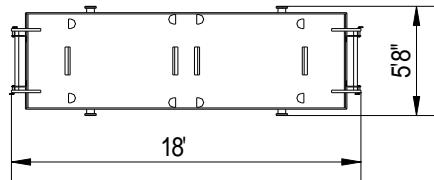
Length	38'1"
Width	4'3"
Height	4'9"
Weight	2,900 lbs

**HEAVY-DUTY FIXED JIB BASE 9'9" (3m) #2316A**

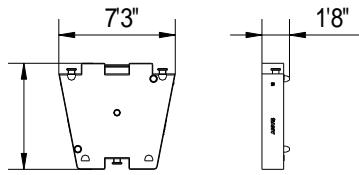
Length	14'6"
Width	7'11"
Height	5'10"
Weight	3,500 lbs

**UPPERWORKS COUNTERWEIGHT TRAY**

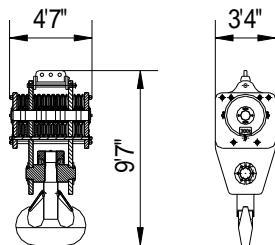
Length	23'6"
Width	7'3"
Height	2'1"
Weight	35,274 lbs

**CARBODY COUNTERWEIGHT TRAY**

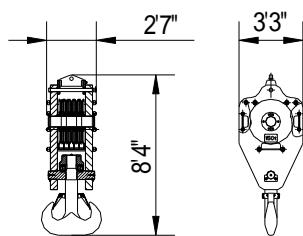
Length	18'
Width	5'8"
Height	1'8"
Weight	27,558 lbs

**COUNTERWEIGHT BLOCK**

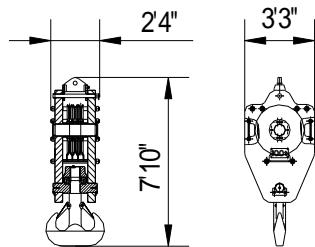
Length	6'7"
Width	7'3"
Height	1'8"
Weight	17,637 lbs

**330 USt (300Mt) HOOK BLOCK**

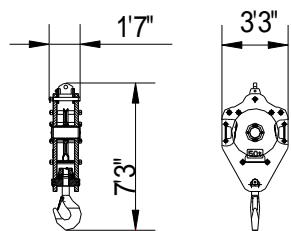
Length	9'7"
Width	3'4"
Height	4'7"
Weight	13,700 lbs

**165 USt (150Mt) HOOK BLOCK**

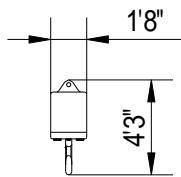
Length	8'4"
Width	3'3"
Height	2'7"
Weight	8,300 lbs

**110 USt (100Mt) HOOK BLOCK**

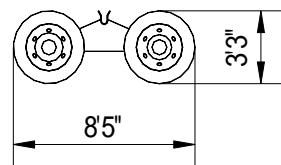
Length	7'10"
Width	3'3"
Height	2'4"
Weight	7,100 lbs

**55 USt (50Mt) HOOK BLOCK**

Length	7'3"
Width	3'3"
Height	1'6"
Weight	5,300 lbs

**16.5 USt (15Mt) HOOK BALL**

Length	4'3"
Width	1'8"
Height	1'8"
Weight	2,200 lbs

**TROLLEY (LUFFING JIB)**

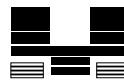
Length	8'5"
Width	5'8"
Height	3'3"
Weight	2,200 lbs

**NOTES:**

1. The transport dimensions of the parts are marked on schematic diagrams, but not drawn by scale; the dimensions indicated are the design values excluding package.
2. The weight is the design value and there may be difference due to the manufacturing error.

<b>(203' + 216') Main Boom + Luffing Jib</b>																	
Trailer Load Out Summary																	
Name	Wt. (Klbs)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Basic Machine	99.2	1															
Crawler Assembly	55.1		1	1													
Rear Counterweight Tray	35.3				1												
Central Counterweight Tray	27.6					1	1										
Counterweight Block	17.6					1	1	2	2	2	2	2	2	2	1	1	
Boom Base	37.3																1
3M Boom Insert	3																1
6M Boom Insert	4.9																1
12M Boom Insert	8.7							1	1	1							
Boom Tip	15.1																1
Luffing Jib Base with Masts	19																1
6M Luffing Jib Insert	3.1			2													
12M Luffing Jib Insert	5.5									1	1	1					
Luffing Jib Tip	9.8																1
Extension Arm	1.4																1
150T Hook	8.3																1
100T Hook	7.1																1
50T Hook	5.3									1							
15T Hook Ball	2.2																1
Trolley	2.2																1
Weight Each trailer (Klbs)	99.2	55.1	55.1	41.5	45.2	45.2	43.9	43.9	43.9	46	40.7	42.9	45	45.9	43.7	43.9	

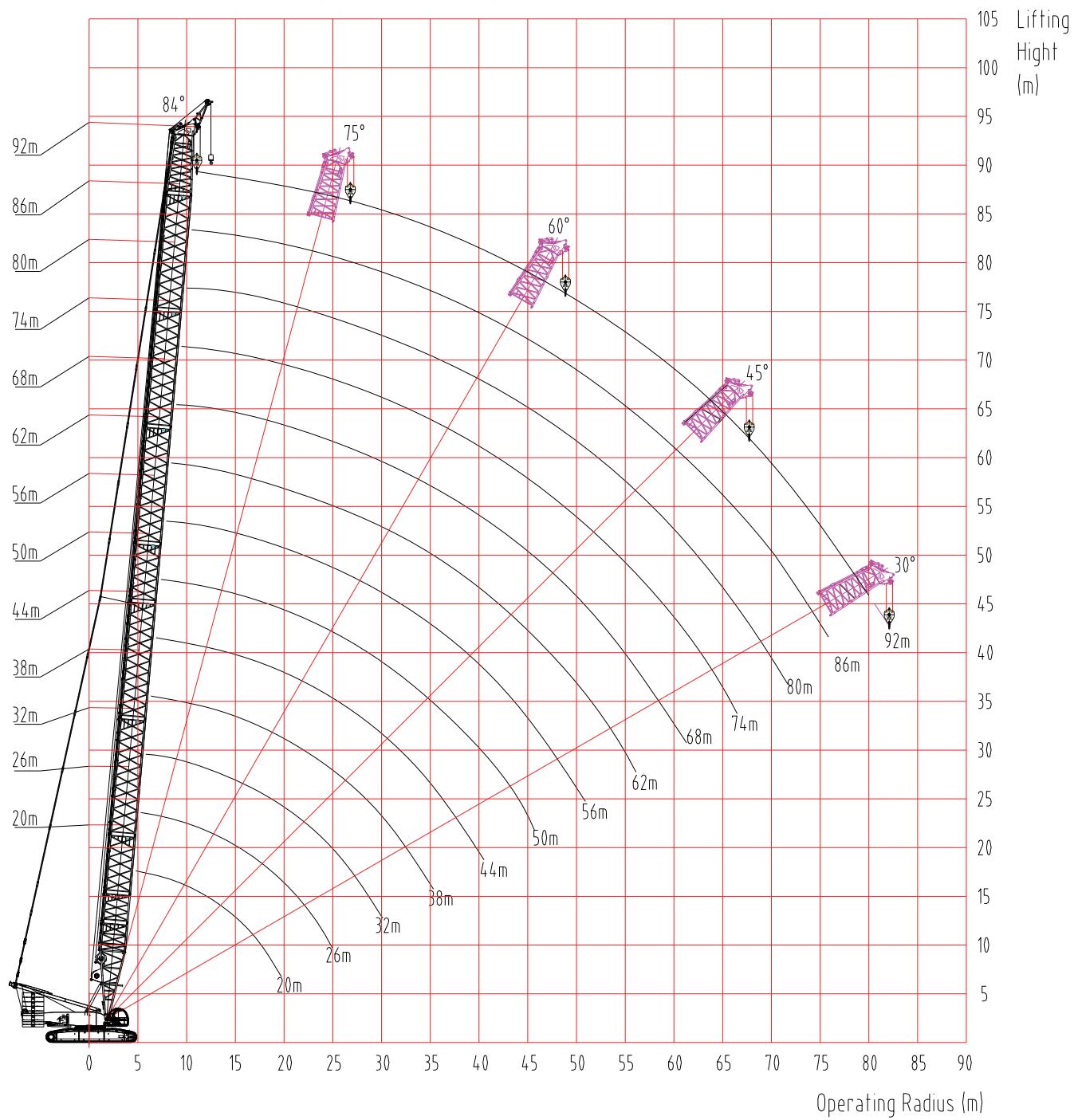
**SCC8300 MAIN BOOM (H) LOAD CHART**


  
 281.6 Klb  
 +  
 125.4 Klb

**BOOM LENGTH (ft)**

LOAD RAD (ft)	66	75	95	115	135	154	174	194	213	233	253	262	292	302	
	CAPACITY (Klb)														
20	568.4	565.8													
25	477.6	470.3	457.7	447.7	385.7										
30	394.9	392.9	389.7	378.8	362.5	353.7	336.5								
35	340.8	340.0	336.0	327.2	318.6	306.1	294.5	282.0	263.1						
40	298.4	298.8	292.1	286.9	282.9	270.9	258.4	245.6	234.9	223.7	211.7	205.1			
45	263.0	263.2	258.5	255.8	248.7	240.6	230.8	221.1	211.4	204.1	197.5	194.2			
50	234.5	234.5	232.3	231.2	225.1	218.5	209.9	200.5	193.8	184.2	177.9	174.8	150.8		
55	209.5	209.5	208.9	208.2	204.2	198.7	191.3	183.0	177.5	168.1	160.1	157.0	142.1		
60		187.2	187.2	186.2	184.2	180.3	173.9	168.0	161.8	155.8	145.7	143.4	132.6		
65		167.6	167.5	167.4	167.8	165.2	159.2	154.8	148.2	142.9	133.3	132.9	123.2		
70		151.6	152.6	152.2	151.5	150.1	146.8	142.5	137.2	131.9	125.8	124.3	115.2	112.8	
75			138.9	138.4	137.4	136.7	135.0	131.4	127.0	122.0	117.8	115.7	108.1	104.9	
80				126.4	126.1	125.6	125.0	123.9	121.6	117.5	113.1	109.3	107.4	101.4	
85					116.3	115.9	115.9	114.8	113.9	112.9	109.2	105.4	101.5	99.9	
90						107.8	107.1	106.8	105.6	104.6	101.8	98.2	94.9	93.1	
95							100.0	99.4	99.2	98.0	97.0	95.0	90.0	88.5	
100								92.9	92.5	92.0	91.0	90.1	88.6	83.0	
110									74.3	79.7	78.9	78.0	76.8	75.1	
120										70.0	69.1	68.2	66.9	65.6	
130											60.6	60.6	59.8	58.7	
140												53.7	52.8	51.7	
150												46.8	46.8	45.7	
160													41.2	40.4	
170													36.1	35.8	
180													30.9	30.5	
190													27.4	26.1	
200														22.8	22.6
210															19.0
230															16.4
250															7.2
															5.4

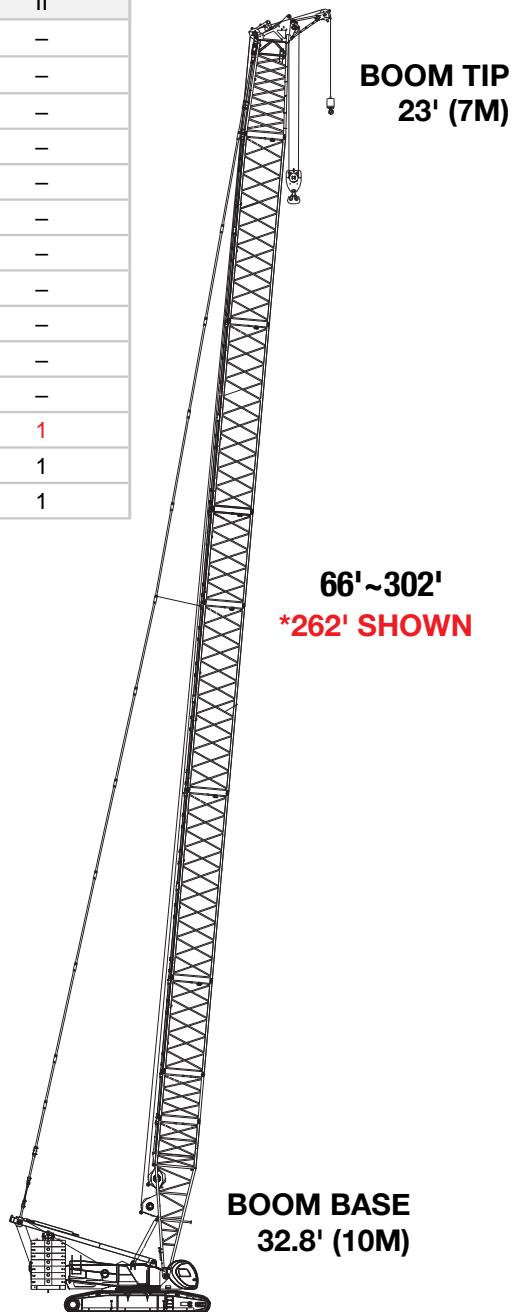
\*This material is supplied for reference only. Operator must refer to Crane Rating Manual and Operator's Manual to determine allowable crane lifting capacities and assembly operating procedures.



Operating Range Curve of Lifting Height

## (H) BOOM OPERATING CONDITIONS

Boom Length	Insert					
	9.8' 2825A CENTER	19.7' 2825A CENTER	39.4' 2825A CENTER I	39.4' 2825A CENTER II	6.3' SUSPENSION I	6.3' SUSPENSION II
66'	-	1	-	-	-	-
76'	-	1	-	-	-	-
95'	-	-	-	1	-	-
115'	-	1	-	1	-	-
135'	-	-	-	2	-	-
154'	-	1	-	2	-	-
174'	-	-	1	2	-	-
194'	-	1	1	2	-	-
213'	-	-	2	2	-	-
233'	-	1	2	2	-	-
253'	-	-	3	2	1	-
*262'	1	2	2	2	-	1
292'	-	2	3	2	-	1
302'	1	2	3	2	-	1



**SCC8300  
43 FT FIXED JIB LIGHT**

 1412A  
+  
2825A

 282,200 lbs  
+  
125,700 lbs


360°

**BOOM ANGLE 10°**

BOOM LENGTH (ft)

LOAD RAD (ft)	66	85	105	125	144	164	184	203	223	CAPACITY (Klb)
30	128.4	131.6								
40	100.3	104.0	112.4	122.7	125.4	127.2	130.1			
50	85.4	89.9	99.8	109.7	115.7	118.4	119.3	119.3	118.1	
60	74.3	79.2	88.2	96.4	102.6	105.7	106.4	110.0	110.9	
70	64.9	71.0	78.0	85.9	91.2	95.1	97.4	100.4	103.1	
80	57.1	64.6	70.9	76.2	81.9	86.0	90.7	92.6	95.4	
90	51.0	58.0	64.4	69.5	76.1	80.3	84.7	86.4	89.4	
100		52.7	58.7	64.2	69.4	74.3	77.7	80.2	28.0	
110			53.8	59.1	64.1	68.7	71.8	75.1	74.4	
120				50.0	54.9	59.7	64.0	66.0	68.6	66.0
130					51.1	55.6	59.5	59.3	61.0	58.4
140					48.2	52.3	55.5	54.6	54.3	52.1
150					45.6	49.4	50.6	49.5	48.2	46.5
160						46.2	45.1	44.0	42.7	41.4
170						41.5	40.4	39.3	38.0	36.9
180							36.3	35.2	33.9	32.7
190								31.5	30.2	29.0
200									26.8	25.7
210										23.8
220										21.1
230										19.9
										17.4

**BOOM ANGLE 20°**

40	87.3	91.0	94.3							
50	74.2	77.9	82.5	85.7	88.4	90.7	92.5			
60	64.6	69.2	73.4	76.9	79.8	82.5	84.7	86.7	88.5	
70	57.2	62.1	66.4	70.0	73.2	75.9	78.3	80.6	82.6	
80	51.6	56.5	60.7	64.2	67.5	70.4	73.0	75.2	77.2	
90	47.3	51.9	55.9	59.5	62.7	65.6	68.3	70.6	72.9	
100		48.0	52.0	55.6	58.7	61.6	64.2	66.6	68.8	
110			48.8	52.1	55.2	58.0	60.7	63.1	64.8	
120				46.0	49.3	52.2	55.0	57.5	59.7	59.7
130					46.8	49.7	52.3	54.1	55.6	54.6
140						44.8	47.5	49.9	50.9	52.2
150							45.6	45.5	47.2	47.5
160								43.8	44.2	43.8
170									42.4	40.8
180										36.7
190										32.2
200										28.3
210										25.1
220										21.2
230										19.8
										17.4

LOAD RAD (ft)	66	85	105	125	144	164	184	203	223	CAPACITY (Klb)
50	63.4	65.9	67.6	69.0						
60	56.6	59.5	61.8	63.8	65.3	66.4	67.5	68.6	69.4	
70	51.5	54.6	57.2	59.2	61.1	62.5	63.8	64.9	66.0	
80	47.4	50.6	53.3	55.4	57.4	59.1	60.4	61.8	62.7	
90	44.2	47.3	50.0	52.3	54.4	55.9	57.6	58.9	60.0	
100		44.7	47.2	49.6	51.6	53.4	54.9	56.3	57.6	
110			45.1	47.3	49.2	51.0	52.6	54.1	55.4	
120				43.1	45.3	47.2	49.0	50.6	52.1	53.5
130					43.6	45.4	47.2	48.7	50.0	50.9
140						42.4	44.0	45.7	47.2	48.3
150							41.5	42.8	44.3	45.6
160								41.7	42.9	43.5
170									41.0	41.1
180										36.9
190										32.1
200										28.5
210										25.4
220										21.2
230										19.6
										17.1

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## (FJ) FIXED JIB STANDARD LOAD CHART

SCC8300

### 62 FT FIXED JIB LIGHT



1412A  
+  
2825A



282,200 lbs  
+  
125,700 lbs



360°

#### BOOM ANGLE 10°

BOOM LENGTH (ft)

LOAD RAD (ft)	66	85	105	125	144	164	184	203	223
	CAPACITY (Kib)								
40	80.4	87.5	95.4	102.2					
50	69.5	75.6	82.8	87.2	90.1	92.7	92.2		
60	60.3	65.9	71.0	75.4	79.1	82.1	83.8	83.9	82.1
70	52.2	57.3	62.0	66.2	69.9	73.7	76.7	77.8	76.4
80	45.7	50.4	55.0	58.9	62.7	66.3	69.5	72.6	72.1
90	40.8	45.4	49.5	53.2	57.0	60.3	63.5	66.6	67.8
100	36.8	41.1	45.0	48.7	52.0	55.3	58.3	61.2	63.8
110	33.6	37.5	41.3	44.8	48.0	51.1	54.0	56.7	59.5
120		34.8	38.2	41.5	44.6	47.5	50.3	53.0	55.6
130			35.6	38.7	41.6	44.5	47.1	49.8	52.2
140				33.4	36.3	39.1	41.9	44.4	46.9
150					31.5	34.2	36.9	39.6	41.9
160						32.4	34.9	37.4	39.6
170							30.7	33.2	35.4
180								31.7	33.9
190									36.1
200									35.0
210									33.6
220									
230									
240									
250									
260									

#### BOOM ANGLE 20°

50	59.1	61.5							
60	51.2	54.1	56.3	58.4	59.9	61.2	62.6	63.8	64.8
70	45.3	48.3	50.7	52.9	54.7	56.3	57.8	59.0	60.2
80	40.7	43.6	46.2	48.4	50.4	52.2	53.7	55.1	56.4
90	37.0	39.9	42.5	44.7	46.8	48.4	50.2	51.7	53.1
100	34.0	36.9	39.5	41.7	43.7	45.5	47.2	48.8	50.1
110	31.6	34.3	36.8	39.0	41.0	42.9	44.5	46.0	47.4
120		32.2	34.7	36.6	38.8	40.6	42.1	43.7	45.2
130			32.6	34.8	36.2	38.2	39.8	41.3	43.0
140				31.1	33.1	34.8	36.6	38.2	39.7
150					29.8	31.6	33.4	35.1	36.6
160						30.3	32.1	33.7	35.2
170							29.2	30.7	32.3
180								29.7	31.3
190									32.5
200									
210									
220									
230									
240									
250									
260									

#### BOOM ANGLE 30°

LOAD RAD (ft)	66	85	105	125	144	164	184	203	223
	CAPACITY (Kib)								
60	44.4	45.9	47.0	48.0					
70	40.4	41.9	43.3	44.4	45.4	46.1	46.7	47.3	
80	36.9	38.6	40.2	41.4	42.5	43.4	44.2	44.9	45.6
90	34.0	35.9	37.5	39.0	40.1	41.2	42.1	42.8	43.6
100	31.9	33.7	35.4	36.7	38.1	39.2	40.0	40.9	41.6
110	30.1	31.8	33.6	34.9	36.2	37.3	38.4	39.3	40.0
120		30.4	31.9	33.2	34.6	35.7	36.8	37.6	38.5
130			30.6	31.5	32.9	34.2	35.1	36.3	36.8
140				29.4	30.6	31.9	33.1	33.9	35.1
150					29.7	30.9	32.0	32.9	34.0
160						28.9	30.0	31.1	32.0
170							28.2	29.2	30.1
180								28.5	29.4
190									28.8
200									28.3
210									27.8
220									23.5
230									20.3
240									17.0
250									14.6
260									12.4

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## (FJ) FIXED JIB STANDARD LOAD CHART

### 80 FT FIXED JIB LIGHT



1412A  
+  
2825A



282,200 lbs  
+  
125,700 lbs



360°

#### BOOM ANGLE 10°

BOOM LENGTH (ft)

LOAD RAD (ft)	66	85	105	125	144	164	184	203	223
CAPACITY (Kib)									
40	75.5	78.9							
50	62.2	64.6	68.8	70.5	70.5				
60	52.7	54.7	59.3	62.4	65.0	66.8	67.7	68.9	68.3
70	45.4	48.5	52.2	55.1	57.7	59.7	61.2	63.8	64.8
80	39.7	43.3	46.6	49.3	52.1	54.0	56.3	58.5	59.9
90	35.5	38.7	41.8	44.6	47.2	49.6	51.8	54.1	55.8
100	31.9	35.2	38.1	40.6	43.1	45.5	47.7	49.8	51.8
110	29.1	32.1	34.9	37.3	39.7	41.9	44.2	46.1	48.1
120	26.7	29.5	32.2	34.6	37.0	39.0	41.2	43.1	45.0
130	23.6	27.3	29.8	32.2	34.5	35.7	37.9	39.7	41.6
140		25.6	27.9	30.2	32.4	34.1	36.0	37.7	39.6
150			26.2	28.4	30.5	32.5	34.2	36.0	37.7
160				26.8	28.7	30.7	32.4	34.1	35.7
170				25.5	27.2	29.0	30.7	32.3	33.8
180				24.3	26.0	27.6	29.2	30.9	32.5
190					24.8	26.4	27.9	29.6	30.3
200					23.7	25.3	26.8	28.0	27.5
210					22.7	24.3	25.8	25.8	24.5
220						23.4	24.1	23.1	21.8
230							22.0	20.7	19.3
240								18.4	17.1
250								16.2	14.9
260								14.2	13.1
270									11.2

#### BOOM ANGLE 20°

60	44.4	46.0	47.3	48.5	49.4				
70	38.8	41.1	42.6	44.1	45.2	46.2	47.1	48.0	
80	34.9	37.2	38.8	40.2	41.5	42.8	43.7	44.8	45.5
90	31.8	33.9	35.6	37.2	38.5	39.8	40.8	41.9	42.8
100	29.1	31.1	32.9	34.5	35.9	37.3	38.4	39.5	40.3
110	27.0	29.0	30.7	32.3	33.8	35.0	36.2	37.3	38.2
120	25.3	27.0	28.8	30.3	31.8	33.1	34.3	35.3	36.3
130	22.6	25.5	26.8	28.3	29.8	30.9	32.3	33.3	34.3
140		24.2	25.6	27.0	28.5	29.6	30.9	32.0	32.9
150			24.5	25.8	27.2	28.5	29.7	30.8	31.6
160				24.7	26.0	27.3	28.4	29.5	30.4
170				23.7	25.0	26.1	27.2	28.3	29.4
180					24.0	25.2	26.2	27.3	28.4
190					23.2	24.4	25.3	26.4	27.3
200					22.5	23.5	24.5	25.5	25.8
210					21.8	22.7	23.8	24.5	23.8
220						22.2	23.0	22.8	21.6
230							21.5	22.0	22.2
240								21.1	20.6
250									19.8
260									18.8
270									17.0
									14.8
									13.9
									11.6

#### BOOM ANGLE 30°

BOOM LENGTH (ft)

LOAD RAD (ft)	66	85	105	125	144	164	184	203	223
CAPACITY (Kib)									
70	32.2	35.5							
80	29.7	32.5	33.4	34.3	34.8	35.4	35.9	36.3	36.6
90	28.1	30.2	31.3	32.1	32.8	33.4	34.0	34.5	34.9
100	26.5	28.1	29.2	30.1	31.0	31.8	32.3	32.9	33.3
110	25.1	26.5	27.6	28.6	29.5	30.3	30.8	31.5	32.1
120	23.7	25.1	26.2	27.3	28.2	28.8	29.6	30.2	30.8
130		23.9	25.0	26.0	26.9	27.7	28.2	28.9	29.6
140		22.9	24.0	24.9	25.8	26.7	27.3	28.0	28.6
150			23.1	24.0	24.9	25.7	26.4	27.1	27.7
160				23.2	24.1	24.9	25.6	26.3	26.9
170				22.5	23.2	24.1	24.8	25.5	26.1
180				21.9	22.7	23.4	24.1	24.8	25.4
190					22.2	22.8	23.5	24.2	24.7
200					21.7	22.3	23.0	23.6	24.0
210						21.4	21.8	22.5	23.1
220							21.5	22.0	22.2
230								21.1	20.6
240									19.8
250									17.0
260									14.8
270									11.9

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## (FJ) FIXED JIB STANDARD LOAD CHART

### 100 FT FIXED JIB LIGHT



1412A  
+  
2825A



282,200 lbs  
+  
125,700 lbs



360°

#### BOOM ANGLE 10°

BOOM LENGTH (ft)

LOAD RAD (ft)	66	85	105	125	144	164	184	203	223	CAPACITY (Klb)					
50	51.9	54.7													
60	44.6	47.6	49.8	51.3	51.8	52.9	54.0	54.0	54.8						
70	40.3	43.0	45.0	46.1	47.5	48.3	48.4	50.7	52.3						
80	35.8	38.6	40.3	41.9	43.7	44.9	45.1	46.5	48.0						
90	32.2	34.7	36.5	38.6	41.1	42.3	42.8	42.6	44.5						
100	29.1	31.5	33.3	35.7	37.6	39.1	40.2	39.5	41.3						
110	26.6	28.8	30.8	32.8	34.7	36.3	37.4	37.3	38.9						
120	24.3	26.5	28.5	30.4	32.2	33.9	35.3	34.8	36.5						
130	22.5	24.5	26.5	28.2	29.6	31.6	32.7	32.3	34.2						
140	20.8	23.0	24.7	26.5	28.0	29.7	31.1	31.3	32.8						
150	15.8	21.5	23.3	24.9	26.5	28.0	29.5	30.3	31.6						
160			22.0	23.5	25.1	26.5	27.9	29.2	30.5						
170				20.8	22.1	23.7	25.0	26.6	27.9	29.0					
180					21.1	22.5	24.0	25.2	26.5	27.6					
190						21.5	22.8	24.1	25.3	26.5					
200							21.7	23.1	24.2	25.4					
210								20.9	22.0	23.1	24.3				
220									20.1	21.2	22.3	22.1			
230										20.5	20.8	19.8			
240											19.6	19.0	17.5		
250												18.2	16.9	15.3	
260													16.2	14.8	13.5
270														12.9	11.6
280															9.9

#### BOOM ANGLE 20°

60	37.5														
70	33.4	35.9	36.5	37.1											
80	30.1	32.7	33.8	34.5	35.0	35.3	35.7	35.7	36.0						
90	27.6	29.7	31.3	32.1	33.0	33.6	34.2	34.4	34.6						
100	25.4	27.4	28.9	30.1	31.1	31.9	32.8	32.8	33.3						
110	23.6	25.2	26.8	28.1	29.4	30.4	31.1	31.3	31.9						
120	21.8	23.7	25.1	26.3	27.6	28.8	29.5	29.5	30.5						
130	20.3	22.2	23.3	24.5	25.6	26.9	27.6	27.6	28.6						
140	18.8	21.0	22.1	23.2	24.5	25.6	26.4	26.8	27.7						
150		20.0	21.0	22.1	23.4	24.5	25.4	26.0	26.8						
160			20.1	21.0	22.3	23.3	24.2	25.1	26.0						
170				19.1	20.2	21.3	22.1	23.2	24.1	25.0					
180					18.2	19.3	20.4	21.2	22.3	23.1	24.0				
190						18.7	19.7	20.4	21.5	22.2	23.1				
200							19.0	19.7	20.6	21.3	22.2				
210								18.3	19.2	19.8	20.5				
220									18.7	19.2	19.8	20.0			
230										18.0	18.5	18.9	18.7		
240											17.4	17.8	17.8	17.3	
250												17.1	16.4	15.8	
260													16.0	14.1	
270														13.2	12.2
280															10.3
290															8.8
300															7.4

#### BOOM ANGLE 30°

BOOM LENGTH (ft)

LOAD RAD (ft)	66	85	105	125	144	164	184	203	223	CAPACITY (Klb)			
80	24.7	27.0	28.4										
90	23.0	25.2	26.4	26.3	26.9	27.4							
100	21.6	23.3	24.6	24.7	25.5	26.0	26.0	26.3	26.5				
110	20.4	21.8	22.9	23.3	24.2	24.7	24.9	25.3	25.5				
120	19.2	20.7	21.6	22.2	23.1	23.5	23.8	24.3	24.5				
130	18.0	19.7	20.5	20.9	21.8	22.2	22.7	23.1	23.3				
140	17.0	19.0	19.7	20.1	21.0	21.5	21.9	22.5	22.7				
150		18.4	18.9	19.3	20.3	20.8	21.2	21.9	22.1				
160		18.0	18.1	18.6	19.6	20.1	20.5	21.2	21.5				
170		17.4	17.4	18.1	18.8	19.4	19.8	20.5	20.9				
180			17.3	17.5	18.3	18.8	19.4	19.7	20.3				
190				17.1	17.8	18.2	18.9	19.1	19.7				
200					17.4	17.8	18.3	18.6	19.0				
210						17.2	17.4	17.6	18.1	18.3			
220							17.2	17.3	17.7	18.0			
230								17.1	17.1	17.3	17.6		
240									16.9	16.8	16.7	17.1	
250										16.3	16.0	16.2	
260											15.8	15.0	14.7
270												13.5	12.5
280													10.4
290													8.7
300													7.5

\*This material is supplied for reference only. Operator must refer to Crane Rating Manual and Operator's Manual to determine allowable crane lifting capacities and assembly operating procedures.

## (FJ) FIXED JIB STANDARD LOAD CHART

### 118 FT FIXED JIB LIGHT

 1412A  
 +  
 2825A      282,200 lbs  
 +  
 125,700 lbs      360°

BOOM ANGLE 10°											
LOAD RAD (ft)	BOOM LENGTH (ft)										
	66	85	105	125	144	164	184	203	223	CAPACITY (Kib)	
60	39.2	42.0	43.6	44.4	44.5	43.8					
70	34.9	36.6	38.1	38.9	39.7	40.2	40.4	37.6	37.6		
80	31.3	32.7	34.3	35.8	36.6	37.3	37.6	35.3	35.3		
90	28.5	30.0	31.5	32.9	33.7	34.5	35.3	33.6	33.6		
100	26.1	27.8	29.1	30.7	31.1	31.8	33.1	32.2	31.9		
110	23.9	25.4	27.0	28.5	29.0	29.6	30.6	30.7	30.3		
120	22.4	23.7	25.1	26.3	27.2	27.8	28.2	28.7	28.5		
130	20.1	21.7	23.0	23.9	24.8	25.7	26.0	26.9	26.7		
140	17.8	20.3	22.1	22.9	23.8	24.5	24.9	26.0	25.8		
150	15.7	19.0	21.2	21.8	22.8	23.4	24.0	25.1	24.9		
160				20.0	20.7	21.8	22.5	23.1	24.2	24.1	
170				18.8	19.7	20.8	21.5	22.1	23.2	23.2	
180				17.9	19.0	19.8	20.5	21.1	22.3	22.3	
190				18.3	18.9	19.6	20.3	21.5	21.5		
200					18.0	18.7	19.5	20.7	20.7		
210					17.0	17.6	18.5	20.1	20.1		
220					16.3	16.8	17.8	19.4	19.0		
230					16.2	17.4	18.7	18.1			
240						17.1	17.9	17.0			
250							16.7	15.3			
260								15.0	13.5		
270									13.3	11.7	
280										11.6	10.1
290											8.4
300											6.9

### BOOM ANGLE 20°

80	27.0	27.5	28.3	29.0	29.4	29.7	30.1			
90	24.7	25.4	26.1	27.0	27.4	27.6	28.1	28.4	28.6	
100	22.6	24.0	24.8	25.4	26.1	26.5	27.0	27.4	27.5	
110	20.9	22.3	23.4	24.2	24.9	25.3	25.8	26.4	26.0	
120	19.7	20.9	21.8	22.8	23.5	24.0	24.4	24.9	24.6	
130	17.5	19.4	20.5	21.1	21.8	22.5	22.9	23.6	23.3	
140	15.7	18.5	19.7	20.2	20.9	21.6	21.8	22.7	22.6	
150	14.1	17.6	18.9	19.3	20.0	20.7	21.0	21.9	21.8	
160	12.4	16.8	18.1	18.5	19.2	19.9	20.3	21.2	21.0	
170	10.9	16.1	17.3	17.7	18.4	19.1	19.5	20.4	20.3	
180		15.5	16.6	17.0	17.7	18.4	18.8	19.7	19.7	
190			15.9	16.5	17.0	17.6	18.1	19.0	19.0	
200				15.9	16.2	16.8	17.4	18.3	18.3	
210				15.4	15.4	16.1	16.8	17.6	17.6	
220					15.1	15.6	16.1	17.1	17.0	
230						15.2	15.6	16.6	16.4	
240							15.3	15.9	15.7	
250								14.9	14.7	
260								14.1	13.3	
270								13.0	12.0	
280								11.7	10.5	
290								10.2	8.8	
300								8.8	7.4	
310									6.0	

BOOM ANGLE 30°										
LOAD RAD (ft)	BOOM LENGTH (ft)									
	66	85	105	125	144	164	184	203	223	CAPACITY (Kib)
90	20.6	20.7								
100	19.3	19.3	21.6	22.0	22.2	22.3	22.2	22.6		
110	18.0	18.1	20.3	20.5	20.9	21.1	21.7	21.9	21.7	
120	17.1	17.3	18.9	19.4	19.9	20.3	20.7	21.0	21.0	
130	15.4	16.5	18.0	18.4	18.8	19.1	19.6	19.9	19.9	
140	13.9	15.7	17.2	17.6	18.0	18.4	18.7	19.3	19.4	
150	12.5	15.2	16.4	16.8	17.3	17.8	18.0	18.7	18.8	
160	11.2	15.0	15.8	16.2	16.7	17.2	17.5	18.1	18.1	
170	10.0	14.5	15.4	15.7	16.1	16.5	17.0	17.4	17.4	
180			15.1	15.2	15.6	16.1	16.5	17.0	17.0	
190				14.5	14.6	15.0	15.5	16.0	16.5	16.5
200					14.1	14.5	14.8	15.5	15.9	15.9
210						13.9	14.1	14.3	15.0	15.2
220							13.9	14.1	14.5	14.9
230								13.9	14.0	14.1
240									13.8	13.8
250										13.4
260										13.4
270										13.4
280										11.6
290										10.4
300										9.0
310										7.8

\*This material is supplied for reference only. Operator must refer to Crane Rating Manual and Operator's Manual to determine allowable crane lifting capacities and assembly operating procedures.

## (FJ) FIXED JIB STANDARD LOAD CHART

### 138 FT FIXED JIB LIGHT



1412A  
+  
2825A



282,200 lbs  
+  
125,700 lbs



360°

#### BOOM ANGLE 10°

BOOM LENGTH (ft)

LOAD RAD (ft)	66	85	105	125	144	164	184	203	223
	CAPACITY (Klb)								
60	35.3	35.5	35.2	34.9					
70	31.4	31.4	32.0	33.0	32.0	31.5	31.5		
80	27.8	28.1	29.0	30.5	29.0	28.8	28.8	28.5	27.6
90	24.8	26.0	26.9	27.5	26.7	26.5	26.9	26.8	26.6
100	22.9	24.4	25.3	25.4	24.8	24.8	25.3	25.6	25.4
110	21.5	22.8	23.2	23.1	23.0	23.3	23.8	24.2	24.4
120	19.3	20.5	21.2	21.2	21.3	21.8	22.2	22.9	23.4
130	17.3	18.2	19.0	19.4	19.6	20.1	20.7	21.6	22.2
140	15.1	17.0	18.0	18.3	18.8	19.3	19.8	20.8	21.6
150	13.1	15.8	17.0	17.3	17.9	18.5	18.9	20.0	21.0
160	11.3	14.5	16.1	16.3	17.0	17.7	18.1	19.2	20.3
170	9.6	13.3	15.1	15.5	16.3	17.0	17.4	18.5	19.6
180		12.6	14.1	14.5	15.4	16.1	16.6	17.9	19.0
190			13.2	13.7	14.4	15.0	15.9	17.3	18.4
200			12.4	13.1	13.4	14.0	15.2	16.8	17.9
210			11.9	12.6	12.6	13.2	14.6	16.3	17.2
220				12.1	11.9	12.4	13.9	15.5	16.2
230					11.2	11.8	13.4	14.5	15.1
240						11.4	13.1	13.6	13.9
250							12.8	12.9	12.9
260							12.2	11.9	11.9
270								11.1	11.1
280									10.3

#### BOOM ANGLE 20°

80	25.2	25.8							
90	22.5	22.9	23.2	23.6	24.0	24.3			
100	20.2	21.1	21.5	21.8	22.1	22.4	22.8	23.2	23.2
110	18.4	19.6	20.2	20.5	20.1	20.9	21.5	21.8	22.0
120	16.5	18.2	18.7	19.1	18.7	19.3	20.2	20.4	20.9
130	14.4	16.5	17.0	17.6	17.4	18.0	18.9	19.3	19.6
140	12.8	15.6	16.2	16.7	16.7	17.4	18.0	18.6	18.9
150	11.2	14.6	15.5	15.9	16.2	16.8	17.3	17.9	18.4
160	9.6	13.7	14.8	15.2	15.5	16.1	16.7	17.3	17.7
170	8.5	12.9	14.1	14.6	14.8	15.4	16.1	16.8	17.0
180	7.1	12.0	13.5	14.0	14.2	14.6	15.5	16.2	16.4
190		11.2	12.8	13.3	13.5	13.9	14.9	15.7	15.8
200			12.2	12.7	12.8	13.2	14.4	15.3	15.2
210			11.9	12.3	12.3	12.6	13.7	14.8	14.6
220				12.0	11.8	12.1	13.2	14.1	13.9
230					11.4	11.7	12.8	13.4	13.2
240					11.1	11.4	12.5	12.8	12.5
250						11.2	12.3	12.3	11.9
260						10.9	12.0	11.7	11.2
270							11.5	11.1	10.5
280								10.7	9.8
290								9.4	9.3
300									1.4
									8.9

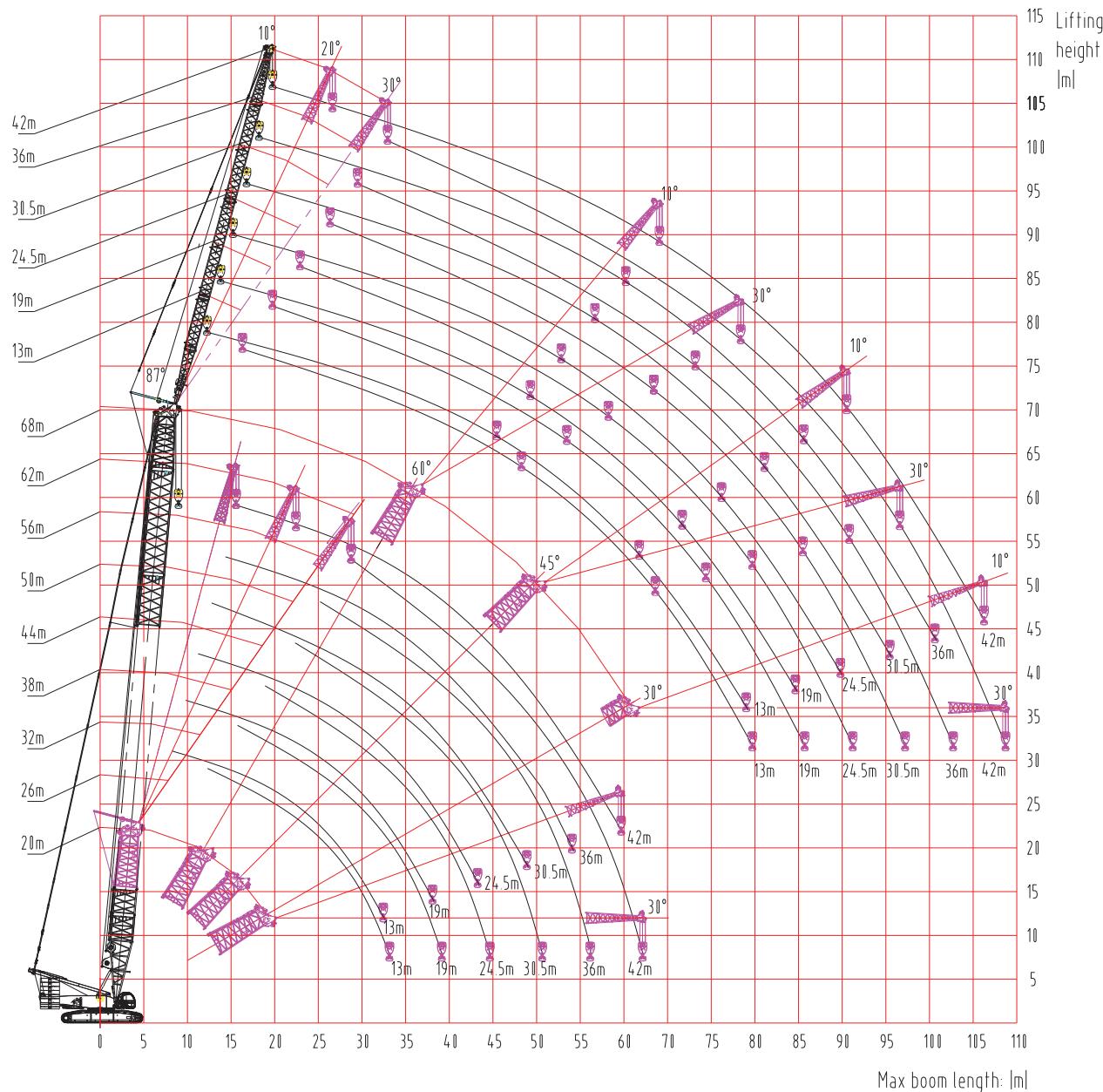
#### BOOM ANGLE 30°

BOOM LENGTH (ft)

LOAD RAD (ft)	66	85	105	125	144	164	184	203	223
	CAPACITY (Klb)								
100	17.6	18.5							
110	15.7	17.4	17.6	18.2	17.4				
120	14.0	16.1	16.5	16.9	16.1	17.0	18.1	18.0	18.5
130	12.3	15.1	15.2	15.6	15.1	16.0	16.9	16.9	17.2
140	11.0	14.3	14.5	15.0	14.7	15.4	16.3	16.3	16.4
150	9.6	13.6	14.0	14.5	14.4	14.9	15.8	15.8	15.7
160	8.4	13.0	13.6	14.0	14.0	14.5	15.3	15.3	15.1
170	7.4	12.2	13.2	13.4	13.4	13.9	14.8	14.8	14.6
180	6.2	11.2	12.8	13.0	13.0	13.4	14.3	14.3	14.0
190			10.2	12.4	12.6	12.5	12.9	13.8	13.9
200			9.3	12.1	12.3	12.1	12.4	13.3	13.5
210			8.6	11.9	12.1	11.9	11.9	12.8	13.0
220				11.7	12.1	11.9	11.7	12.4	12.7
230					12.0	11.8	11.6	12.1	12.3
240						11.6	11.5	11.8	12.0
250							11.5	11.7	11.0
260							11.3	11.5	11.3
270								11.5	11.0
280									10.7
290									10.4
300									10.0
310									9.5
320									8.0

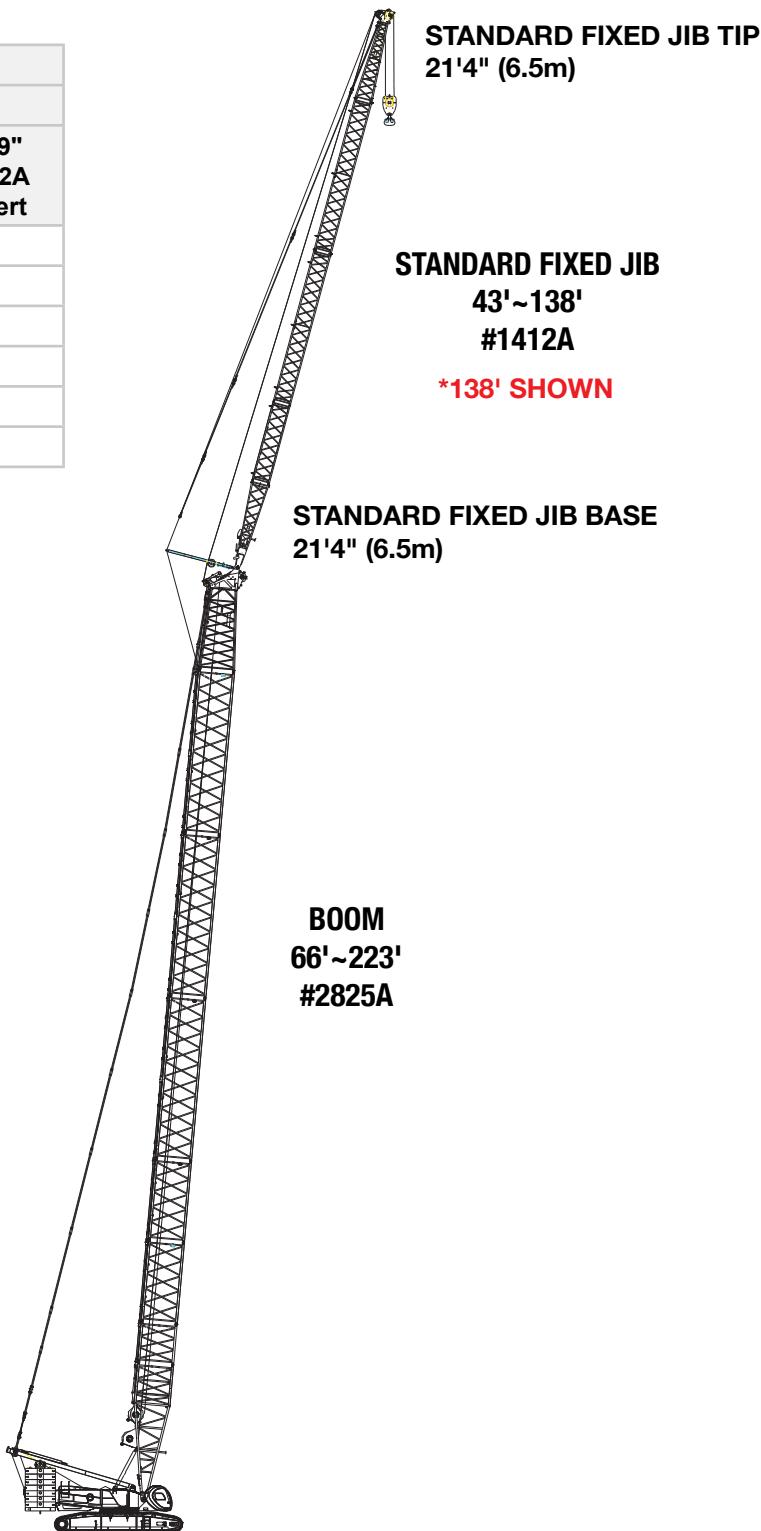
\*This material is supplied for reference only. Operator must refer to Crane Rating Manual and Operator's Manual to determine allowable crane lifting capacities and assembly operating procedures.

## STANDARD FIXED JIB ATTACHMENT ON (H) WORKING RANGE DIAGRAM



## FIXED JIB STANDARD OPERATING CONDITIONS

1412A - FJ Configuration		
Fixed Jib Length (ft)	Jib Sections	
	19'8" 1412A Insert	37'9" 1412A Insert
43'	—	—
62'	1	—
80'	—	1
100'	1	1
118'	—	2
138'	1	2



## (FJH) FIXED JIB HEAVY LOAD CHART

SCC8300

### 39 FT FIXED JIB HEAVY



2316A  
+  
2825A



282,200 lbs  
+  
125,700 lbs



360°

#### BOOM ANGLE 10°

BOOM LENGTH (ft)

LOAD RAD (ft)	66	85	105	125	144	164	184	203	223	243		
	CAPACITY (Klb)											
30	180.8	215.2	218.4	218.7	218.4	218.0	217.8					
40	151.4	167.5	179.9	190.6	199.5	216.7	214.6	192.5	153.1	109.0		
50	124.0	137.8	149.8	160.0	169.1	177.8	185.4	186.6	148.3	105.2		
60	104.0	116.4	127.6	138.0	147.0	155.1	162.7	160.6	143.0	103.7		
70	89.9	101.5	111.8	121.2	130.2	138.3	139.5	135.0	130.5	102.5		
80	78.9	89.6	99.4	108.4	116.9	122.9	119.1	114.9	111.2	101.0		
90	70.7	80.6	89.7	98.4	106.1	106.5	103.0	99.3	95.9	94.0		
100	73.3	81.6	89.6	94.5	92.8	89.9	86.6	83.4	81.9			
110	67.3	75.2	82.5	82.0	80.8	79.0	76.0	73.2	71.8			
120			69.9	72.9	71.9	70.8	69.7	67.1	64.4	63.3		
130				64.5	63.5	62.3	61.2	59.5	56.8	56.1		
140					56.4	55.2	54.1	52.7	50.5	49.9		
150						50.2	49.0	47.9	46.6	44.8	44.4	
160							43.7	42.5	41.2	39.8	39.5	
170								38.9	37.8	36.5	35.4	35.1
180									33.7	32.4	31.2	31.4
190										28.5	27.4	27.9
200											24.0	24.6
210												21.2
220												19.1

#### BOOM ANGLE 15°

30	157.3	177.1	182.6	186.8								
40	134.7	144.0	151.6	157.7	162.9	167.4	170.8	174.2	147.2	106.0		
50	112.3	121.6	129.7	136.8	142.5	147.7	152.1	156.4	144.8	105.2		
60	96.0	105.3	113.7	120.7	126.9	132.2	137.4	141.5	142.5	104.0		
70	84.1	93.2	101.3	108.2	114.5	120.1	125.2	129.6	130.8	102.8		
80	74.9	83.7	91.3	98.1	104.3	109.8	114.9	116.2	112.3	102.0		
90	68.0	76.1	83.4	90.0	96.0	101.4	103.9	100.5	97.1	95.0		
100		69.9	76.9	83.2	88.9	93.6	90.7	87.5	84.4	83.0		
110		64.9	71.3	77.3	82.0	81.6	79.8	76.7	74.0	72.7		
120			66.9	72.1	72.6	71.3	70.4	67.8	65.1	64.2		
130				64.7	63.8	62.7	61.8	60.1	57.6	56.8		
140					56.7	55.6	54.5	53.3	51.2	50.5		
150						50.4	49.3	48.2	47.1	45.3	44.8	
160							43.9	42.8	41.7	40.2	40.0	
170							39.1	38.2	36.9	35.8	35.6	
180								33.9	32.7	31.5	31.8	
190									29.0	27.7	28.1	
200										25.5	24.4	24.9
210											21.4	22.0
220												19.3

\*This material is supplied for reference only. Operator must refer to Crane Rating Manual and Operator's Manual to determine allowable crane lifting capacities and assembly operating procedures.

#### BOOM ANGLE 20°

BOOM LENGTH (ft)

LOAD RAD (ft)	66	85	105	125	144	164	184	203	223	243		
	CAPACITY (Klb)											
30	139.0											
40	120.7	126.5	131.0	134.8	138.0	140.9	142.5	144.9	140.7	105.2		
50	102.4	109.4	114.8	119.5	123.5	126.9	129.7	132.1	134.1	104.7		
60	89.2	96.4	102.4	107.5	112.0	115.7	119.0	121.8	124.6	104.1		
70	79.3	86.6	92.5	97.8	102.4	106.3	110.0	113.1	116.0	103.4		
80	71.5	78.5	84.6	89.9	94.6	98.5	102.3	105.6	108.4	102.9		
90	65.6	72.3	78.1	83.4	88.0	92.0	96.0	99.3	98.2	96.1		
100		67.0	72.6	77.7	82.3	86.5	89.9	88.4	85.3	83.8		
110		63.0	68.1	73.0	77.4	81.3	80.5	77.6	74.7	73.6		
120			64.4	69.0	72.5	71.9	70.8	68.5	66.0	64.9		
130				64.8	64.3	63.2	62.3	60.6	58.2	57.5		
140					56.9	55.9	54.9	53.8	51.6	51.2		
150						50.6	49.7	48.6	47.5	45.9	45.5	
160							44.1	43.2	41.9	40.7	40.5	
170								39.3	38.4	37.1	36.0	36.0
180									34.1	33.0	31.9	32.0
190										29.2	28.1	28.5
200											25.7	24.6
210												21.6
220												22.3
												19.5

## (FJH) FIXED JIB HEAVY LOAD CHART

**SCC8300**

### 59 FT FIXED JIB HEAVY


 2316A  
+  
2825A

 282,200 lbs  
+  
125,700 lbs


360°

#### BOOM ANGLE 10°

BOOM LENGTH (ft)

LOAD RAD (ft)	66	85	105	125	144	164	184	203	223	243		
CAPACITY (Klb)												
30	148.0	165.1										
40	120.8	128.9	135.8	142.0	146.7	151.6	155.8	156.7	127.3	100.7		
50	97.5	105.3	112.6	118.9	124.5	129.7	134.0	138.0	126.5	98.7		
60	81.6	89.4	96.2	102.4	108.1	113.0	118.1	121.8	124.9	97.0		
70	70.3	77.5	84.1	90.2	95.6	100.7	105.3	109.5	113.5	95.2		
80	61.7	68.5	74.6	80.4	85.8	90.4	95.2	99.2	103.3	93.3		
90	55.2	61.6	67.2	72.8	77.7	82.3	86.8	91.0	94.8	91.6		
100	49.8	55.9	61.3	66.3	71.2	75.6	79.9	83.7	83.6	81.9		
110	45.6	51.2	56.3	61.1	65.6	70.0	74.0	76.3	73.5	71.9		
120		47.2	52.0	56.6	61.0	65.1	69.0	67.5	64.9	63.8		
130			48.5	52.9	56.9	60.9	62.6	60.0	57.5	56.6		
140				49.6	53.3	56.6	55.5	53.6	51.2	50.3		
150					46.6	50.3	50.5	49.3	47.9	45.5		
160						46.3	51.6	43.9	42.6	40.6		
170							41.7	40.4	39.3	38.0		
180								36.2	35.0	33.7		
190									31.4	30.1		
200										27.9		
210											23.6	
220												22.3
230												22.5
240												19.5
												17.3
												15.2

#### BOOM ANGLE 15°

30												
40	105.7	110.2	114.2	117.2	119.6	121.5	123.5					
50	87.7	93.0	97.5	101.3	104.5	107.2	110.0	112.1	114.1	98.8		
60	74.9	80.5	85.3	89.3	92.8	96.1	98.8	101.4	103.9	97.3		
70	65.5	71.0	75.7	80.1	83.8	87.1	90.2	92.9	95.5	95.9		
80	58.3	63.6	68.3	72.5	76.1	79.6	82.8	85.6	88.0	90.7		
90	52.6	57.7	62.3	66.4	70.1	73.4	76.6	79.6	82.1	84.7		
100	47.9	52.9	57.1	61.4	64.9	68.2	71.3	74.2	76.6	79.4		
110	44.2	48.9	53.1	57.1	59.4	63.7	66.8	69.6	72.1	73.1		
120		45.5	49.5	53.2	55.8	59.8	62.8	65.7	66.0	64.9		
130			46.5	50.0	52.2	56.2	59.3	60.9	58.6	57.5		
140				43.8	47.2	48.2	53.4	55.7	54.5	52.1		
150					44.7	45.2	50.7	50.0	48.6	46.4		
160						45.5	45.7	44.6	43.2	40.8		
170							42.0	40.9	39.8	38.4		
180								36.6	35.5	34.3		
190									32.7	31.6		
200										28.2		
210											24.0	
220												22.7
230												22.9
240												20.0
												17.3
												17.8
												15.4

#### BOOM ANGLE 20°

BOOM LENGTH (ft)

LOAD RAD (ft)	66	85	105	125	144	164	184	203	223	243			
CAPACITY (Klb)													
30													
40	94.7	96.5	98.6										
50	79.8	83.2	86.1	88.5	90.4	92.0	93.5	94.8	95.1				
60	68.9	72.9	76.7	79.5	81.8	83.8	85.6	87.1	87.9	86.9			
70	60.9	65.2	69.2	72.0	74.8	77.1	79.1	80.9	82.0	80.8			
80	54.6	58.8	62.9	66.1	68.8	71.3	73.5	75.5	76.5	75.5			
90	49.6	53.8	58.0	61.1	64.0	66.5	68.8	70.9	70.6	69.4			
100	45.5	49.4	53.8	56.9	59.8	62.2	64.6	66.6	66.3	65.6			
110	42.2	45.9	50.1	53.4	56.1	58.7	60.9	62.4	61.8	60.3			
120		42.9	47.1	50.3	53.0	55.5	57.8	59.3	58.5	57.0			
130			40.4	44.6	47.5	50.3	52.8	55.0	56.8	54.3			
140				42.6	45.2	47.9	50.2	52.6	53.9	52.9			
150					43.2	45.8	48.0	50.2	49.4	47.2			
160						43.9	45.6	45.0	43.9	42.0			
170							42.2	41.3	40.2	39.1			
180								37.0	35.9	34.8			
190									32.9	32.1			
200										28.7			
210											24.3		
220												21.4	
230													17.8
240													15.8

\*This material is supplied for reference only. Operator must refer to Crane Rating Manual and Operator's Manual to determine allowable crane lifting capacities and assembly operating procedures.



# RANGE DIAGRAM UNDER DEVELOPMENT



2316A Boom - FJH Configuration	
Fixed Jib Length (ft)	
	19.8' 2316A Center
39'	—
59'	1

DRAWING  
UNDER  
DEVELOPMENT

## (LJ) LUFFING JIB LOAD CHART

**SCC8300**  
**59 FT LUFFING JIB**

 2316A	282,200 lbs	 125,700 lbs	 360°					
<b>BOOM ANGLE 87°</b>								
BOOM LENGTH (ft)								
LOAD RAD (ft)	66	85	105	125	144	164	184	203
CAPACITY (Kib)								
30	238.1	286.6	300.4					
35	203.2	266.2	258.9	257.8	249.9	235.0	222.2	204.2
40	163.4	217.2	231.3	239.0	224.9	212.1	194.2	177.2
45	140.2	193.5	217.2	215.4	204.9	193.8	177.9	163.6
50	120.5	171.6	203.3	186.3	185.8	178.1	165.1	152.6
55		151.5	189.0	160.8	170.2	163.3	154.0	142.9
60						134.1		
65						126.0		
<b>BOOM ANGLE 83°</b>								
40	219.6	264.0	241.8					
45	195.9	237.6	226.9					
50	169.1	208.3	211.5	227.1	211.6			
55	144.5	180.4	190.3	197.8	193.1	174.4	166.0	
60		155.9	164.6	174.8	177.2	160.8	153.2	
65		137.6	144.4	154.4	163.6	149.1	142.4	
70				145.5	139.3	133.2		
75						154.9		
80						142.5		
85						132.8		
90						123.1		
95						113.1		
100							85.6	84.5
105								80.1
110								76.1

BOOM ANGLE 75°								
BOOM LENGTH (ft)								
LOAD RAD (ft)	66	85	105	125	144	164	184	203
CAPACITY (Kib)								
55	193.6							
60	172.9	177.0						
65	151.4	163.1						
45	134.9	149.8						
50								
55								
60								
65								
70			146.0					
75			133.6	129.6	122.8			
80				121.0	115.0	108.3		
85				112.3	108.2	102.0		
90					102.3	96.5	90.4	
95						85.6	84.5	
100								80.1
105								76.1
BOOM ANGLE 65°								
BOOM LENGTH (ft)								
LOAD RAD (ft)	66	85	105	125	144	164	184	203
CAPACITY (Kib)								
75	127.7							
80								
85								
90								
95			95.3					
100				83.8	47.2			
105				80.5	76.3			
85					72.1			
90								
100						60.3		
110								
120							52.4	
125								42.5
135								

\*This material is supplied for reference only. Operator must refer to Crane Rating Manual and Operator's Manual to determine allowable crane lifting capacities and assembly operating procedures.

## (LJ) LUFFING JIB LOAD CHART

**SCC8300**  
**98 FT LUFFING JIB**



**BOOM ANGLE 87°**

LOAD RAD (ft)	BOOM LENGTH (ft)							
	66	85	105	125	144	164	184	203
<b>40</b>	200.2	231.0	227.9	215.3				
<b>45</b>	167.3	202.4	217.9	205.3	190.9	197.7	167.4	
<b>50</b>	143.6	175.6	202.9	183.7	178.1	167.7	157.6	141.5
<b>55</b>	125.4	153.3	188.5	161.4	163.0	155.6	147.5	133.7
<b>60</b>	111.5	136.0	175.5	141.8	146.1	144.2	137.5	126.3
<b>65</b>	100.7	122.1	161.9	127.2	130.2	132.8	128.5	120.0
<b>70</b>	92.3	111.0	150.9	115.3	117.6	120.2	120.1	113.6
<b>75</b>	84.8	101.5	139.9	105.1	107.0	109.1	110.5	107.6
<b>80</b>	77.9	93.4	128.3	96.4	98.2	99.9	100.8	101.4
<b>85</b>	71.6	86.6	115.4	89.2	90.7	92.0	93.4	93.8
<b>90</b>	66.8	80.9	100.5	83.2	84.4	85.5	86.9	88.0
<b>95</b>						81.0	82.2	

**BOOM ANGLE 83°**

LOAD RAD (ft)	BOOM LENGTH (ft)							
	66	85	105	125	144	164	184	203
<b>50</b>	166.2							
<b>55</b>	141.2	179.8	183.3	177.5				
<b>60</b>	120.8	155.5	162.2	163.4	165.6	149.3	142.4	
<b>65</b>	104.5	137.9	143.6	151.3	153.2	138.6	132.4	
<b>70</b>	92.5	124.2	129.0	137.3	142.7	129.6	123.9	110.3
<b>75</b>	82.9	112.8	116.7	123.8	130.3	121.4	116.1	102.5
<b>80</b>	74.9	103.2	106.5	111.8	117.1	114.0	109.1	95.1
<b>85</b>	67.1	94.9	97.9	102.0	106.4	107.5	102.9	88.4
<b>90</b>	62.0	88.1	90.7	94.5	98.3	101.5	97.5	80.6
<b>95</b>		81.9	84.4	87.7	91.0	94.5	92.5	74.8
<b>100</b>					84.6	87.4	88.0	70.2
<b>105</b>					78.9	81.4	83.8	65.7
<b>110</b>						78.5	61.9	

**BOOM ANGLE 75°**

LOAD RAD (ft)	BOOM LENGTH (ft)							
	66	85	105	125	144	164	184	203
<b>75</b>	117.7	131.2						
<b>80</b>	102.9	122.6	119.8					
<b>85</b>	93.2	114.0	112.6					
<b>90</b>	83.3	106.0	105.4	100.5				
<b>95</b>	76.5	98.0	98.7	95.2	89.7			
<b>100</b>	71.5	90.5	92.7	90.2	85.1	80.1	74.9	
<b>105</b>	66.1	84.0	87.3	85.5	80.9	76.1	71.2	70.1
<b>110</b>		78.5	82.5	81.0	77.0	72.5	67.8	66.7
<b>115</b>				76.8	73.5	69.2	64.7	63.6
<b>120</b>					70.3	66.1	61.8	60.7
<b>125</b>						63.1	59.1	58.0
<b>130</b>						60.6	56.6	55.5
<b>135</b>							53.2	

**BOOM ANGLE 65°**

LOAD RAD (ft)	BOOM LENGTH (ft)								
	66	85	105	125	144	164	184	203	
<b>100</b>	84.2								
<b>105</b>	77.4	85.1							
<b>110</b>		80.0							
<b>115</b>		75.8	72.6						
<b>120</b>		71.9	68.8	65.1					
<b>125</b>			65.3	61.7					
<b>135</b>				58.7	52.5				
<b>140</b>					55.8	50.1	45.9		
<b>145</b>						47.8	44.1	39.3	
<b>150</b>						45.6	42.2	37.6	
<b>155</b>							40.4	36.2	31.5
<b>160</b>								34.7	30.2
<b>165</b>									28.9
<b>170</b>									27.7

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## (LJ) LUFFING JIB LOAD CHART

### SCC8300 138 FT LUFFING JIB



2316A  
+  
2825A



282,200 lbs  
+  
125,700 lbs



360°

BOOM ANGLE 87°								
	BOOM LENGTH (ft)							
LOAD RAD (ft)	66	85	105	125	144	164	184	203
CAPACITY (Klb)								
50	111.8	165.6	165.5	158.2	148.9			
55	99.9	152.6	164.6	152.9	147.2	136.9	125.0	111.9
60	89.7	135.3	160.9	141.1	142.7	134.4	120.3	107.6
65	78.9	121.6	151.7	126.5	129.5	126.8	116.5	104.2
70	69.5	110.5	142.2	115.1	117.6	118.4	111.4	100.0
75	63.2	101.1	133.2	105.1	107.0	109.1	106.5	96.1
80	58.8	93.3	124.9	196.4	98.0	99.9	101.0	92.4
85	53.4	86.8	117.5	89.0	90.6	92.0	93.1	88.3
90	49.5	81.2	109.6	83.3	84.4	85.7	86.5	83.3
95	46.4	76.1	100.9	78.0	78.8	80.1	80.4	78.3
100	43.9	71.5	92.4	73.3	73.8	75.0	75.2	73.7
105	41.9	67.5	84.7	69.0	69.4	70.5	71.2	69.7
110	39.5	63.7	77.0	65.3	65.6	66.8	67.0	65.2
115	37.2	59.3	69.9	62.0	62.4	63.4	63.6	61.4
120	35.0	53.9	62.2	58.9	59.5	60.1	60.6	57.8
125						57.1	57.8	54.3
130						54.6	55.1	50.8

### BOOM ANGLE 83°

60	116.3	155.1						
65	102.5	137.5						
70	89.6	123.7	127.0	131.9	129.2			
75	78.2	112.1	114.6	121.8	118.3	113.3	108.2	99.3
80	68.9	102.4	104.4	111.3	111.0	106.4	101.7	92.0
85	63.0	94.4	96.4	101.6	104.7	100.3	96.0	87.2
90	57.4	87.5	89.3	94.0	97.4	94.8	90.8	81.7
95	52.8	81.8	83.0	87.1	90.5	89.8	86.1	77.2
100	48.8	77.0	77.1	81.2	84.1	85.3	81.8	72.7
105	45.2	72.3	70.8	76.5	78.3	81.1	77.8	67.0
110	43.4	68.2	66.2	71.9	74.1	76.4	74.3	63.8
115	41.6	64.6	61.9	67.6	69.7	72.0	70.9	60.5
120	40.1	61.2	58.1	63.9	65.8	68.0	67.7	57.4
125	38.6	58.1	55.0	61.1	62.6	64.2	64.8	54.7
130	36.1	53.2	53.7	58.2	59.6	61.0	62.1	51.6
135				55.5	56.7	58.0	59.4	49.3
140						56.7	47.1	

### BOOM ANGLE 75°

BOOM LENGTH (ft)								
LOAD RAD (ft)	66	85	105	125	144	164	184	203
CAPACITY (Klb)								
90	77.3							
95	70.0	95.8						
100	64.2	89.8	88.7	83.9				
105	58.2	83.3	84.2	79.6	75.0			
110	54.5	78.1	80.1	75.7	71.4			
115	50.4	73.5	76.4	72.2	68.0	63.6		
120	46.7	69.3	72.7	68.9	64.8	60.7	56.6	55.8
125	43.8	65.5	68.9	65.9	62.0	58.0	54.1	53.3
130	41.9	62.4	64.7	63.1	59.3	55.5	51.7	50.3
135	40.1	59.5	61.6	60.4	56.9	53.2	49.5	48.6
140		56.6	58.7	57.7	54.6	51.1	47.4	46.5
145				55.0	52.5	49.0	45.4	44.6
150				52.5	50.4	47.0	43.7	42.8
155					48.4	45.2	42.0	41.1
160						43.5	40.4	39.5
165							38.9	37.8
170							37.5	36.6

### BOOM ANGLE 65°

BOOM LENGTH (ft)								
LOAD RAD (ft)	66	85	105	125	144	164	184	203
CAPACITY (Klb)								
120	52.0							
125	46.7	66.6						
135	42.1	63.4	56.3					
140	38.6	60.7	53.6					
145	35.9	58.2	51.1	48.0				
150	34.0	55.7	48.7	45.8				
155	31.9	53.2	46.6	43.8	40.5			
160		50.9	44.6	41.8	38.9	34.6		
165		50.0	43.0	40.0	37.2	33.2	29.1	
170				38.3	35.7	31.9	27.9	
175					34.2	30.7	26.7	
180						32.7	29.6	25.6
185						31.9	28.4	24.6
190							27.4	23.7
195								18.8
200								18.1
205								17.3
210								16.5

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## (LJ) LUFFING JIB LOAD CHART

SCC8300 177 FT LUFFING JIB								
	2316A + 2825A		282,200 lbs + 125,700 lbs		360°			
BOOM ANGLE 87°								
BOOM LENGTH (ft)								
LOAD RAD (ft)	66	85	105	125	144	164	184	203
CAPACITY (Klb)								
55	100.5							
60	86.6	116.2	112.5	107.6	102.0			
65	76.6	115.4	111.7	106.8	101.3		89.8	83.9
70	67.6	108.2	111.0	106.1	100.5	94.5	88.8	82.0
75	61.2	100.3	110.2	102.3	99.5	92.9	86.7	79.3
80	56.3	92.9	108.9	95.8	97.0	90.4	83.5	76.2
85	50.6	86.4	106.2	88.6	89.9	86.8	80.0	73.4
90	46.7	80.7	100.4	82.9	83.9	83.2	76.5	70.1
95	43.9	75.4	94.6	77.6	78.2	79.4	73.1	66.8
100	41.7	70.9	88.9	72.8	73.0	75.3	69.7	63.6
105	39.0	67.2	82.9	68.6	68.3	70.8	66.4	60.4
110	36.8	63.5	77.3	65.0	64.9	66.9	62.9	57.3
115	34.9	60.5	71.9	61.7	61.8	63.1	59.7	54.3
120	33.3	57.9	66.6	58.8	59.1	59.8	56.8	51.6
125	32.1	55.0	61.4	56.2	56.6	57.2	54.0	49.0
130	30.2	50.8	57.1	53.7	54.2	54.8	51.2	45.2
135	29.0	46.5	52.5	51.5	51.9	52.3	48.5	43.3
140	27.8	42.0	48.1	49.4	49.3	49.5	45.9	41.5
145	26.4	37.2	43.7	47.1	46.4	46.6	43.4	39.4
150	25.1	33.3	39.0	43.2	45.6	45.4	41.2	38.1
155	21.9	29.3	34.6	38.8	41.9	43.2	39.0	37.0
160				37.5	39.6	36.8	36.1	
BOOM ANGLE 83°								
70	90.0							
75	79.7	109.9	108.7	107.2				
80	69.6	101.7	102.7	105.6	101.0	96.2		
85	64.0	93.8	95.1	100.8	97.4	95.9		
90	57.6	86.7	88.3	93.5	92.4	88.4	84.5	73.3
95	52.3	81.1	82.2	86.5	87.4	83.6	80.1	70.3
100	47.9	76.5	76.3	80.5	82.5	80.8	76.0	67.0
105	43.9	71.9	70.1	75.8	77.2	77.6	72.1	64.2
110	41.5	68.1	65.6	71.3	73.0	73.9	68.7	61.8
115	39.3	64.6	61.2	67.1	68.9	70.6	65.6	59.4
120	37.3	61.3	57.3	63.4	65.2	67.2	62.6	56.6
125	35.6	58.4	54.1	60.4	62.2	63.5	59.8	53.5
130	33.7	55.7	53.1	57.7	58.6	61.0	57.3	51.1
135	31.3	53.3	50.5	55.3	55.5	58.1	54.9	48.5
140	28.8	50.7	47.6	53.0	53.1	55.4	52.6	45.9
145	26.8	47.5	45.1	50.9	51.5	53.1	50.5	43.5
150	25.6	42.6	42.6	48.9	49.3	50.3	48.6	41.5
155	24.4	38.0	41.9	47.0	47.7	48.3	46.8	39.7
160	22.8	33.7	40.1	44.9	46.0	46.6	45.1	37.9
165				42.1	44.0	45.1	43.4	36.0
170				37.4	41.7	43.4	41.6	34.2
175					40.1	40.3	32.7	

BOOM ANGLE 75°								
BOOM LENGTH (ft)								
LOAD RAD (ft)	66	85	105	125	144	164	184	203
CAPACITY (Klb)								
100	67.3							
105	61.9	80.2						
110	57.4	76.4						
115	52.4	72.6	70.9					
120	47.7	68.8	67.6	63.6	59.7			
125	43.7	64.8	64.4	60.6	57.2	53.0		
130	40.1	62.0	61.5	57.9	55.0	50.6		
135	37.8	58.9	58.9	55.5	52.9	48.4	44.5	
140	35.9	55.9	56.5	53.2	50.6	46.3	42.6	42.0
145	33.8	53.4	54.2	50.9	47.9	44.3	40.8	40.1
150	32.3	51.4	51.8	48.9	45.8	42.4	39.1	38.2
155	30.3	49.6	49.5	47.0	43.9	40.7	37.6	36.7
160	28.4	47.8	47.3	45.2	42.2	39.1	36.0	35.2
165	26.5	45.8	45.2	43.4	40.5	37.6	34.5	33.7
170	24.5	43.3	43.2	41.6	39.0	36.1	33.3	32.4
175		38.9	41.5	39.9	37.6	34.8	31.9	31.0
180			39.9	38.3	36.3	33.5	30.7	29.8
185					34.9	32.3	29.5	28.6
190						33.6	31.0	28.3
195							29.9	27.3
200								26.3
205								24.4
210								23.6
BOOM ANGLE 65°								
BOOM LENGTH (ft)								
LOAD RAD (ft)	66	85	105	125	144	164	184	203
CAPACITY (Klb)								
140	36.5							
145	34.6	51.1						
150	32.7	48.7						
155	30.9	46.5						
160	28.8	44.4	41.8					
165	26.4	42.5	40.0	37.0				
170	23.9	40.8	38.3	35.5				
175	22.4	38.9	36.6	34.0	30.3			
180	20.8	37.3	35.1	32.5	29.1	25.2		
185	19.7	35.8	33.6	31.2	27.9	24.2		
190		34.3	32.3	29.9	26.8	23.2		
195					28.5	25.8	22.2	18.6
200						27.4	24.7	21.3
205							26.3	23.7
210								21.9
215								18.8
220								15.5
225								11.9
230								10.1
235								9.6
240								9.1

\*This material is supplied for reference only. Operator must refer to Crane Rating Manual and Operator's Manual to determine allowable crane lifting capacities and assembly operating procedures.

## (LJ) LUFFING JIB LOAD CHART

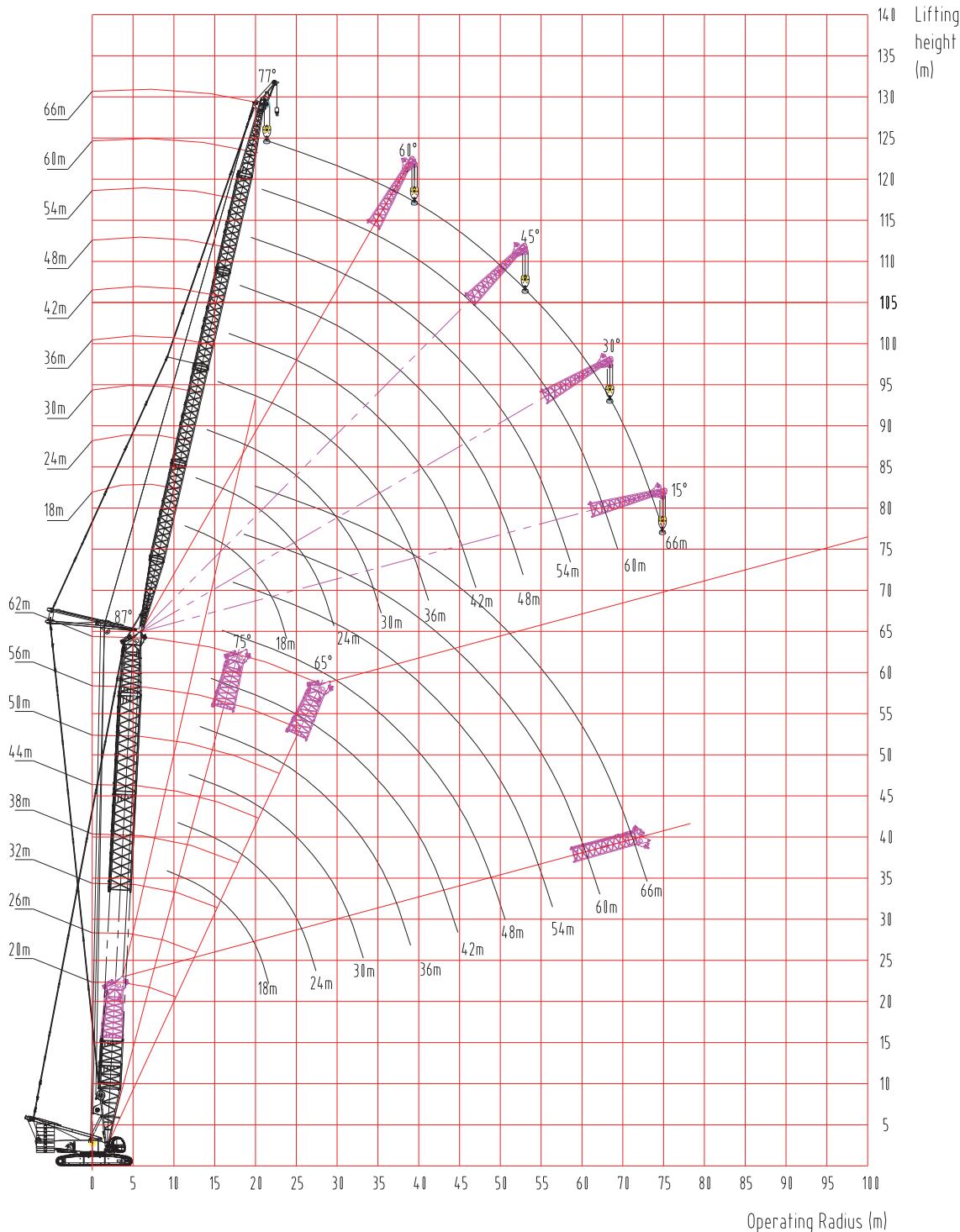
SCC8300 217 FT LUFFING JIB								
		2316A +	2825A		282,200 lbs +	125,700 lbs		360°
BOOM ANGLE 87°								
LOAD RAD (ft)	66	85	105	125	144	164	184	203
CAPACITY (Klb)								
70	65.6	79.4	77.5		71.7	68.3	64.8	
75	59.2	78.6	76.8	74.1	71.0	67.7	64.3	51.8
80	54.0	77.8	76.1	73.4	70.4	67.1	63.5	51.2
85	47.8	77.0	75.4	72.8	69.9	66.6	62.0	49.9
90	43.9	73.6	74.1	72.2	69.1	64.7	59.9	48.6
95	41.7	70.2	71.4	71.0	67.7	62.6	57.8	47.4
100	39.7	66.9	68.0	69.1	65.6	60.4	55.8	46.4
105	36.4	63.9	65.0	65.9	63.1	58.4	53.8	45.4
110	34.2	61.2	62.2	63.1	61.2	56.2	51.7	44.4
115	32.5	58.5	59.6	60.3	59.1	54.1	49.5	43.4
120	31.5	55.5	57.1	57.7	56.9	51.9	47.4	42.4
125	31.0	52.0	54.7	55.4	54.6	49.7	45.5	41.3
130	28.9	48.1	51.5	52.7	52.3	47.7	43.5	40.5
135	27.9	44.7	47.9	49.5	50.0	45.6	41.6	39.6
140	27.2	41.1	44.5	46.2	47.3	43.6	39.8	38.6
145	26.3	37.2	41.1	43.0	44.1	41.7	37.9	37.8
150	24.9	33.3	38.6	39.8	41.1	39.8	36.0	37.0
160	19.5	26.7	31.9	34.6	35.3	35.8	32.7	35.7
170	14.7	22.0	26.6	29.4	30.3	30.9	29.5	32.0
180	9.8	17.0	21.1	24.0	25.6	26.4	26.7	27.4
190	6.1	12.9	16.5	19.4	21.3	22.1	22.8	23.0
BOOM ANGLE 83°								
80	68.1	78.5						
85	64.0	77.8						
90	57.6	77.0	75.9	73.8	70.9			
95	52.3	74.6	75.1	73.2	70.5	67.5	63.3	50.0
100	47.9	71.2	73.2	72.5	70.0	67.1	64.1	50.0
105	43.9	67.9	69.2	71.7	69.7	66.8	63.7	49.8
110	41.5	64.8	64.8	68.5	68.9	66.5	62.7	49.6
115	38.9	62.0	60.6	65.5	66.4	65.9	60.4	49.5
120	36.2	59.5	56.8	62.7	63.2	64.3	57.6	48.9
125	33.3	57.0	53.7	60.0	60.2	61.3	55.0	47.7
130	30.5	54.6	52.7	57.5	57.7	58.6	52.6	45.7
135	28.9	51.5	50.1	54.9	55.2	56.1	50.2	43.5
140	27.3	48.0	47.2	52.4	52.8	53.7	48.0	41.5
145	25.3	44.4	44.7	50.1	50.7	51.4	46.1	39.6
150	24.0	41.2	42.5	47.1	48.7	49.3	44.2	37.4
160	21.9	33.7	38.2	40.8	42.5	44.0	40.7	33.5
170	19.6	28.9	32.7	34.9	36.7	38.2	37.7	30.4
180	15.9	22.6	27.7	29.8	31.5	33.1	34.2	28.0
190	10.3	18.4	23.5	25.2	26.8	28.1	29.3	25.5
200			18.0	21.1	22.4	23.8	24.8	23.3
210					19.6	20.9	21.4	

BOOM ANGLE 75°								
BOOM LENGTH (ft)								
LOAD RAD (ft)	66	85	105	125	144	164	184	203
CAPACITY (Klb)								
120	46.7	64.1						
125	43.7	61.1	59.3					
130	40.1	58.4	56.6					
135	37.8	55.9	54.2	50.7				
140	35.9	53.5	51.9	48.5	45.9			
145	33.7	51.2	49.6	46.5	43.2	39.7	36.4	
150	31.1	49.1	47.6	44.6	41.3	38.0	34.7	
155	29.4	47.1	45.7	42.6	39.6	36.3	33.2	32.5
160	27.7	44.7	43.8	40.9	38.0	34.8	31.7	31.0
165	25.9	41.9	42.0	39.2	36.3	33.4	30.3	29.5
170	24.5	38.8	40.3	37.7	34.8	31.9	29.1	28.2
175	23.1	36.2	38.8	36.2	33.4	30.6	27.8	27.0
180	21.6	33.5	37.0	34.7	32.1	29.3	26.7	25.8
185	20.0	30.9	34.9	33.4	30.8	28.1	25.5	24.6
190	18.2	28.5	32.4	32.1	29.6	27.0	24.4	23.7
195	17.2	26.0	29.8	30.8	28.4	26.0	23.3	22.7
200	14.9	23.8	27.5	29.4	27.4	25.0	22.4	21.6
210		19.6	22.9	26.0	25.4	22.9	20.5	19.8
220				21.8	23.4	21.2	18.9	18.1
230							17.4	16.7
240								15.2
BOOM ANGLE 65°								
BOOM LENGTH (ft)								
LOAD RAD (ft)	66	85	105	125	144	164	184	203
CAPACITY (Klb)								
160	28.8							
165	26.4							
170	23.9							
175	22.3	36.4						
180	20.7	34.8	32.1					
185	19.1	33.1	30.8					
190	18.2	31.8	29.6	26.3				
195	17.2	30.5	28.3	25.1				
200	16.3	29.1	27.0	24.1	20.8			
210	14.3	26.7	24.7	22.0	19.0	15.7	12.3	
220		23.8	22.7	20.3	17.4	14.2	11.0	7.5
230			20.8	18.6	15.9	12.8	9.7	6.4
240				17.1	14.5	11.5	8.5	5.4
250					10.3	7.4	4.3	
260						6.4	3.5	
270							2.5	

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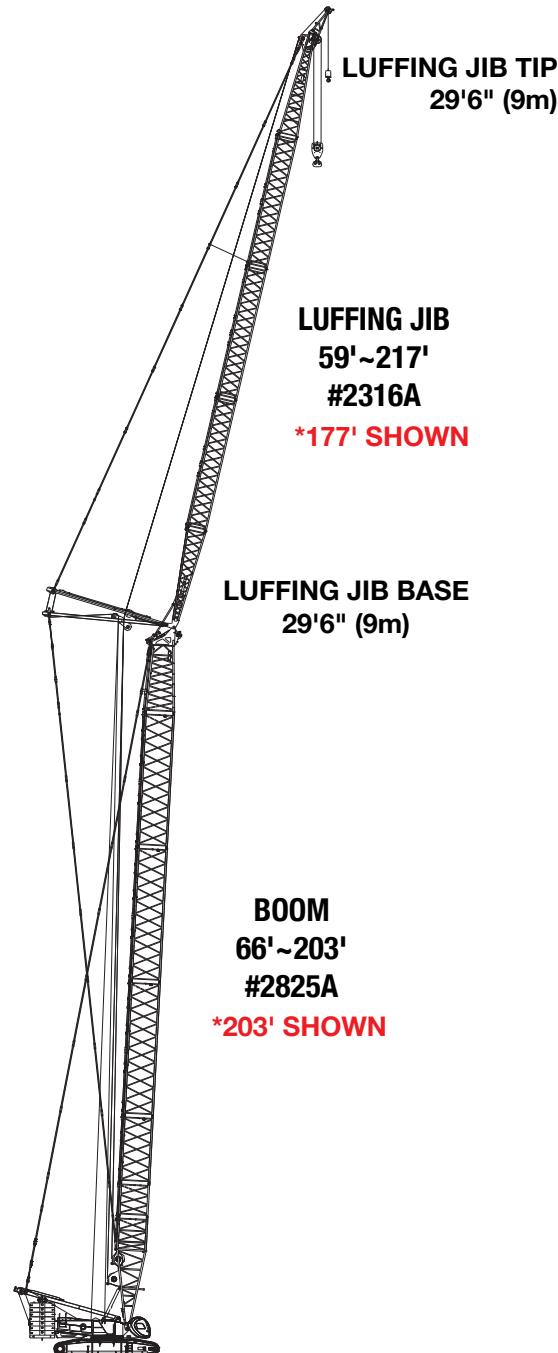
## LUFFING JIB ATTACHMENT ON (H) WORKING RANGE DIAGRAM



**(LJ) LUFTING JIB OPERATING CONDITIONS**

2316A Luffing Jib - LJ Configuration			
Boom Length	Insert		
	20' 2316A Center	39' 2316A Center	16' 2316A Suspension
59'	—	—	—
79'	1	—	—
98'	—	1	—
118'	1	1	—
138'	—	2	—
158'	1	2	—
*177'	—	3	—
197'	1	3	—
217'	2	3	1

2825A Boom - LJ Configuration				
Boom Length	Insert			
	10' 2825A Inner	20' 2825A Center	39' 2825A Center I	39' 2825A Center II
66'	1	—	—	—
76'	—	1	—	—
85'	1	1	—	—
95'	—	—	—	1
105'	1	—	—	1
115'	—	1	—	1
125'	1	1	—	1
135'	—	—	—	2
144'	1	—	2	—
154'	—	1	—	2
164'	1	1	2	—
174'	—	—	1	2
184'	1	—	2	1
194'	—	1	1	2
203'	1	1	2	1





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