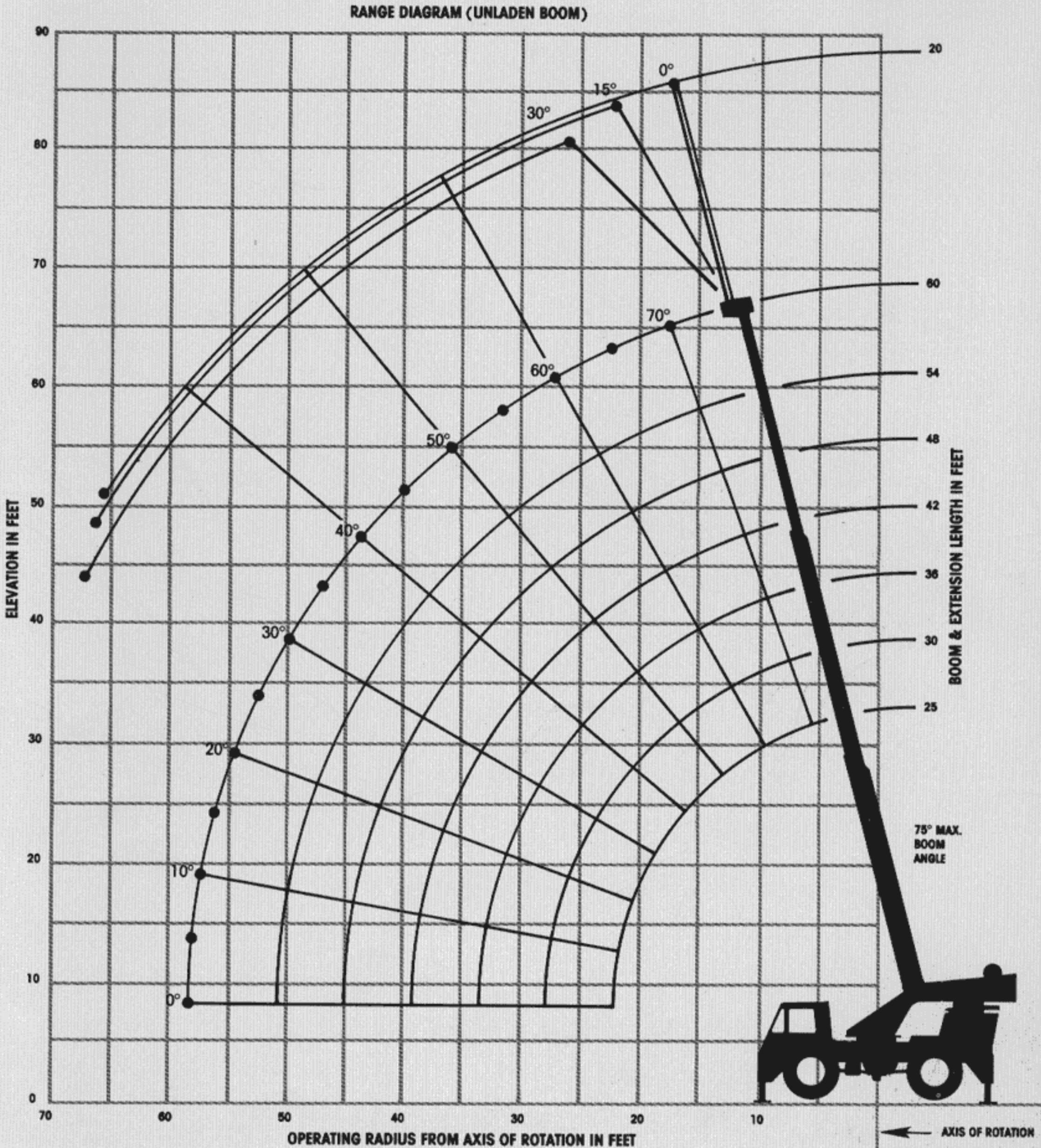




# RT580

Rough terrain hydraulic crane/25 ft.-60 ft. full power boom



# NOTES FOR LIFTING CAPACITIES

1. All rated loads have been tested to and meet minimum requirements of SAE J1063 OCT80 - Cantilevered Boom Crane Structures - Method of Test, and do not exceed 85% of the tipping load on outriggers (75% of the tipping load on rubber) as determined by SAE J765 OCT80 Crane Stability Test Code.
2. This chart is intended as a guide only. The individual crane's load chart operating instructions and other instruction plates give details of the conditions under which the crane may be operated safely. ALL OF THESE INSTRUCTIONS MUST BE READ AND UNDERSTOOD PRIOR TO OPERATING THE CRANE.
3. Capacities given do not include the weight of hookblocks, slings, auxiliary lifting equipment and load handling devices. Their weights MUST be added to the load to be lifted. When more than minimum required reeving is used, the additional rope weight shall be considered part of the load.
4. Capacities appearing above the bold line are based on structural strength and tipping should not be relied upon as a capacity limitation.
5. All capacities are for crane on firm, level surface. It may be necessary to have structural supports under the outrigger floats or tires to spread the load to a larger bearing surface.
6. When either boom length or radius or both are between values listed, the smallest load shown at either the next larger radius or boom length shall be used.
7. For outrigger operation, ALL outriggers shall be fully extended with tires raised free of ground before raising the boom or lifting loads.
8. Tires shall be inflated to the recommended pressure before lifting on rubber.
9. Unless otherwise stated, capacities are with powered boom sections equally extended.
10. Defined Arc - 6° on either side of longitudinal centerline of machine.

## ON RUBBER 17.5x25 TIRES - 20PR (STATIONARY - DEFINED ARC OVER FRONT)

Radius in Feet	Main Boom Length in Feet						
	25	30	36	42	48	54	60
10	24,100 (60)						
12	22,060 (54.5)	16,000 (62)	16,000 (67.5)	16,000 (71)	10,000 (74)		
15	17,380 (45)	13,000 (55)	13,000 (62)	13,000 (66.5)	10,000 (70)		
20	11,340 (23.5)	9,600 (41.5)	9,600 (52)	9,600 (59)	9,600 (63.5)	9,600 (67.5)	
25		7,650 (23)	7,650 (41)	7,500 (50.5)	7,500 (56.5)	7,500 (61.5)	
30			5,660 (25.5)	5,660 (40.5)	5,660 (49)	5,660 (55)	5,660 (59.5)
35				4,340 (27.5)	4,340 (40)	4,340 (48)	4,340 (53.5)
40					3,410 (28.5)	3,410 (40)	3,410 (47)
45						2,750 (30)	2,750 (39.5)
50						2,180 (13.5)	2,150 (30)
55							1,600 (16.5)

NOTE: Boom angles are in degrees.

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## ON RUBBER (STATIONARY CAPACITIES - 360°)

Radius in Feet	Main Boom Length in Feet					
	25	30	36	42	48	54
10	16,280 (60)					
12	13,000 (54.5)	10,000 (62)	10,000 (67.5)	10,000 (71)	10,000 (74)	
15	9,000 (45)	7,600 (55)	7,600 (62)	7,600 (66.5)	7,600 (70)	
20	5,290 (23.5)	5,000 (41.5)	5,000 (52)	5,000 (59)	5,000 (63.5)	5,000 (67.5)
25		3,440 (23)	3,440 (41)	3,440 (50.5)	3,440 (56.5)	3,440 (61.5)
30			2,440 (25.5)	2,440 (40.5)	2,440 (49)	2,440 (55)
35				1,780 (27.5)	1,700 (40)	1,700 (48)
40					1,220 (28.5)	1,100 (40)
45						820 (30)

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## ON RUBBER (PICK & CARRY CAPACITIES - UP TO 2.5 MPH)

Radius in Feet	Main Boom Length in Feet						
	25	30	36	42	48	54	60
10	24,750 (60)						
12	21,030 (54.5)	13,700 (62)	13,700 (67.5)				
15	16,830 (45)	11,100 (55)	11,100 (62)	11,100 (66.5)	11,100 (70)		
20	11,340 (23.5)	8,670 (41.5)	8,670 (52)	8,300 (59)	8,300 (63.5)		
25		7,650 (23)	7,650 (41)	6,400 (50.5)	6,400 (56.5)	6,400 (61.5)	
30			5,410 (25.5)	5,000 (40.5)	5,000 (49)	5,000 (55)	5,000 (59.5)
35				4,340 (27.5)	4,000 (40)	4,000 (48)	4,000 (53.5)
40					3,410 (28.5)	3,100 (40)	3,100 (47)
45						2,750 (30)	2,500 (39.5)
50						2,180 (13.5)	2,000 (30)
55							1,600 (16.5)

NOTE: Boom angles are in degrees.

A6-829-009192

Constant improvement and engineering progress makes it necessary that we reserve the right to make specification, equipment, and price changes without notice. Illustrations shown may include optional equipment and accessories and may not include all standard equipment.

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## ON OUTRIGGERS - 360° 20 FT. "A" FRAME JIB

Main Boom Angle (Deg.)	0° OFFSET		15° OFFSET		30° OFFSET	
	Rad. Ref. (ft.)	Cap. lbs.	Rad. Ref. (ft.)	Cap. lbs.	Rad. Ref. (ft.)	Cap. lbs.
75	21.5	9,500	25.8	6,100	28.9	4,200
70	27.8	8,400	31.9	5,450	34.8	3,870
65	33.9	7,140	37.8	4,850	40.5	3,660
60	39.7	5,440	43.4	4,400	45.9	3,500
55	45.3	4,210	48.6	3,770	50.8	3,330
50	50.5	3,410	53.6	3,200	55.4	3,200
45	55.2	2,810	58.1	2,730	59.6	2,700
40	59.6	2,440	62.1	2,360	63.2	2,360
35	63.5	2,150	65.6	2,040	66.4	2,040
30	66.9	1,890	68.6	1,810	69.1	1,810

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### WEIGHT REDUCTIONS FOR LOAD HANDLING DEVICES

20 FT. A-FRAME JIB 25 FT. - 60 FT. BOOM	
†Stowed -	248 lbs.
†Erected -	1,375 lbs.

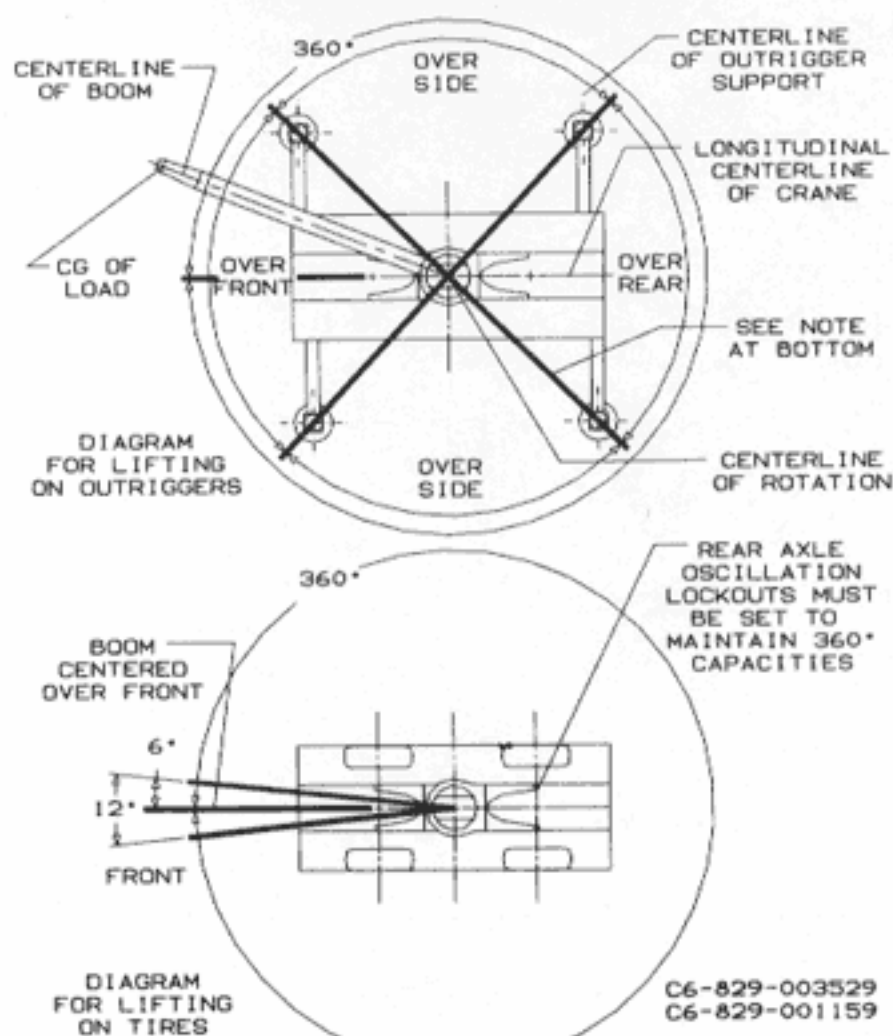
†Reduction of main boom capacities.

HOOKBLOCKS:	
15 Ton, 2 Sheave	298 lbs.
22 Ton, 3 Sheave	455 lbs.
12 Ton, 1 Sheave (15 7/8")	360 lbs.
12 Ton, 1 Sheave (12 1/8")	270 lbs.
Auxiliary Boom Head	100 lbs.
5 Ton Headache Ball	172 lbs.

### NOTES FOR RUBBER CAPACITIES

No Load Stability Data		Main Boom 60 ft.	Main Boom & 20' Jib
Front	Min. boom angle (deg.) for indicated length	0	0
(No load)	Max. boom length (ft.) at 0 deg. boom angle	60	80
360 Deg.	Min. boom angle (deg.) for indicated length	10	42
(No load)	Max. boom length (ft.) at 0 deg. boom angle	54	70

### LIFTING AREA DIAGRAM



BOLD LINES DETERMINE THE LIMITING POSITION OF ANY LOAD FOR OPERATION WITHIN WORKING AREAS INDICATED

WORKING AREA DIAGRAM

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C6-829-001159

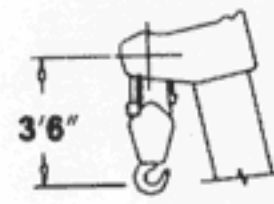
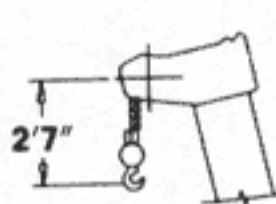
## 25 FT. - 60 FT. BOOM ON OUTRIGGERS FULLY EXTENDED - 360°

Radius in Feet	Main Boom Length in Feet						
	25	30	36	42	48	54	60
10	36,000 (60)	36,000 (66)	36,000 (70.5)	36,000 (74)			
12	34,500 (54.5)	34,500 (62)	34,500 (67.5)	34,300 (71)	33,500 (74)		
15	28,000 (45)	28,000 (55)	28,000 (62)	28,000 (66.5)	28,000 (70)	27,600 (73)	25,000 (75.5)
20	19,600 (23.5)	19,600 (41.5)	19,600 (52)	19,600 (59)	19,600 (63.5)	19,600 (67.5)	19,600 (70.5)
25		13,300 (23)	13,300 (41)	13,300 (50.5)	13,300 (56.5)	13,300 (61.5)	13,300 (65)
30			9,730 (25.5)	9,730 (40.5)	9,730 (49)	9,730 (55)	9,730 (59.5)
35				7,440 (27.5)	7,440 (40)	7,440 (48)	7,440 (53.5)
40					5,880 (28.5)	5,880 (40)	5,880 (47)
45						4,820 (30)	4,820 (39.5)
50						4,000 (13.5)	4,000 (30)
55							3,350 (16.5)
Minimum boom angle (deg.) for indicated length (no load)							0
Maximum boom length (ft.) at 0 deg. boom angle (no load)							60

NOTE: Boom angles are in degrees.

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



## 25 FT. - 60 FT. BOOM ON OUTRIGGERS FULLY EXTENDED - OVER FRONT

Radius in Feet	Main Boom Length in Feet						
	25	30	36	42	48	54	60
10	36,000 (60)	36,000 (66)	36,000 (70.5)	36,000 (74)			
12	34,500 (54.5)	34,500 (62)	34,500 (67.5)	34,300 (71)	33,500 (74)		
15	28,000 (45)	28,000 (55)	28,000 (62)	28,000 (66.5)	28,000 (70)	27,600 (73)	25,000 (75.5)
20	22,200 (23.5)	22,200 (41.5)	22,200 (52)	22,200 (59)	22,200 (63.5)	21,900 (67.5)	21,500 (70.5)
25		17,400 (23)	17,400 (41)	17,400 (50.5)	17,400 (56.5)	17,400 (61.5)	17,400 (65)
30			14,100 (25.5)	14,100 (40.5)	14,100 (49)	14,100 (55)	14,100 (59.5)
35				11,320 (27.5)	11,320 (40)	11,320 (48)	11,320 (53.5)
40					9,010 (28.5)	9,010 (40)	9,010 (47)
45						7,470 (30)	7,470 (39.5)
50						6,200 (13.5)	6,200 (30)
55							5,100 (16.5)
Minimum boom angle (deg.) for indicated length (no load)							0
Maximum boom length (ft.) at 0 deg. boom angle (no load)							60

NOTE: Boom angles are in degrees.

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