



RT 670

70 US^t Lifting Capacity
Rough Terrain Cranes
Datasheet
Imperial

RT 670



1212 N Loop 12, Irving,
Texas 75061

Call Us to Request a Quote
(972) 438-1122



Features

- ▶ Rated capacity:
70 US^t @ 9 ft working radius
- ▶ Maximum boom length:
111 ft
- ▶ Maximum tip height:
170 ft

WORKS FOR YOU.™

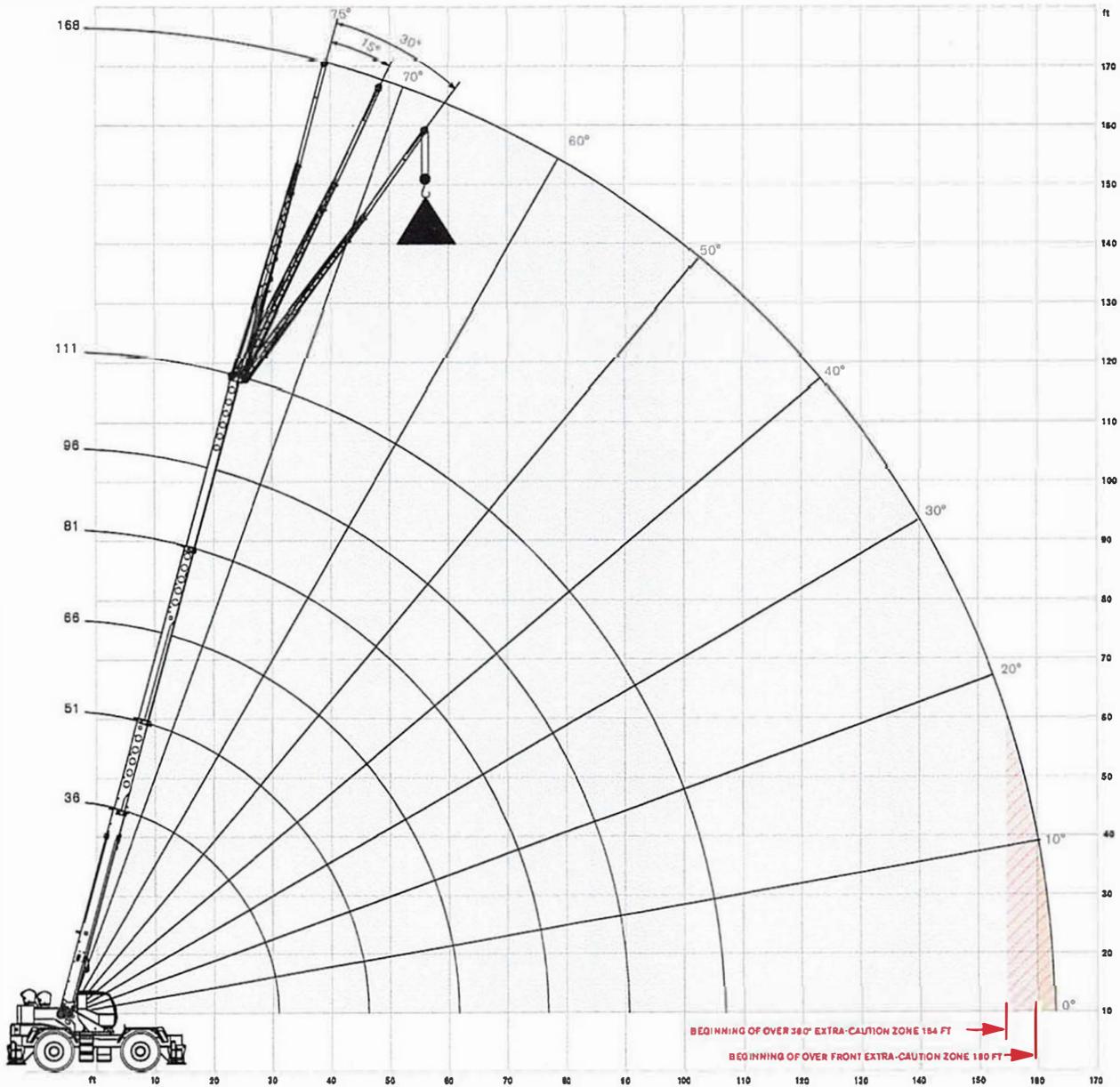
RANGE DIAGRAM - MAIN BOOM

RT 670

With Jib, 57 ft offset



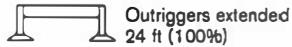
 with hook block:
6 ft 9 in



LOAD CHART - MAIN BOOM

RT 670

With Jib, 57 ft offset



Standard ASME B30.5

57 ft Offsettable Jib					
0° Offset		15° Offset		30° Offset	
 Radius (ft)	lbs	 Radius (ft)	lbs	 Radius (ft)	lbs
52	6,500	64	4,500	74	3,300
58	6,100	70	4,300	80	3,200
64	5,800	76	4,100	85	3,100
73	5,500	83	3,800	92	3,000
81	5,100	91	3,600	99	2,900
89	4,700	98	3,400	106	2,800
96	4,400	105	3,300	112	2,700
105	4,000	113	3,100	119	2,800
114	3,700	121	2,900	126	2,600
122	3,400	128	2,800	132	2,500
129	2,900	135	2,700	138	2,500
137	2,300	142	2,100	144	2,100
145	1,700	149	1,600	149	1,600
153	1,200	155	1,100		
159	900	160	800		

Notes to lifting capacity

Lifting capacities do not exceed 85% of tipping load. Weight of hook blocks and slings is part of the load, and is to be deducted from the capacity ratings. Consult operation manual for further details.

Note: Data published herein is intended as a guide only and shall not be construed to warrant applicability for lifting purposes. Crane operation is subject to the computer charts and operation manual both supplied with the crane.

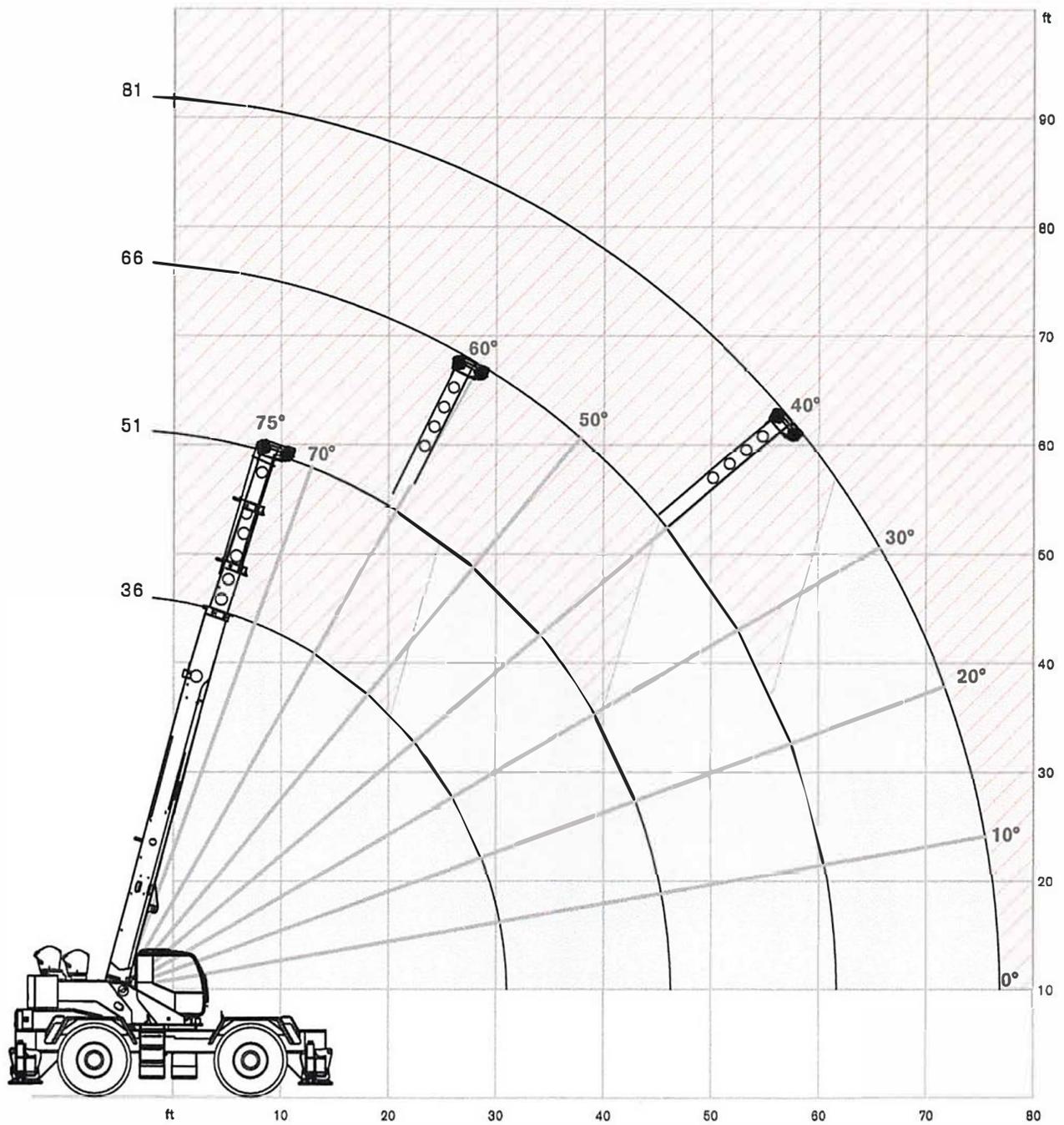
RANGE DIAGRAM - MAIN BOOM

RT 670

On Tires



with hook block:
6 ft 9 in



LOAD CHART - MAIN BOOM

RT 670

On Tires

 14,200 lbs
counterweight

 360 degree
rotation

 On tires
29.5 X 25-28PR

Standard ASME
B30.5

Boom		Travel Speed Boom straight over front		
Radius	Length	0 mph	Creep	2.5 mph
ft	ft	lb	lb	lb
10	36	87,500	68,700	51,800
12	36	77,200	60,400	45,300
15	36	61,300	50,700	37,600
20	36	37,200	37,200	28,700
25	51	22,500	22,500	22,500
30	51	15,600	15,600	15,600
35	51	12,600	12,600	12,600
40	51	10,100	10,100	10,100
45	66	8,000	8,000	8,000
50	66	6,400	6,400	6,400
55	66	5,100	5,100	5,100
60	81	4,100	4,100	4,100
65	81	3,300	3,300	3,300
75	81	2,600	2,600	2,600

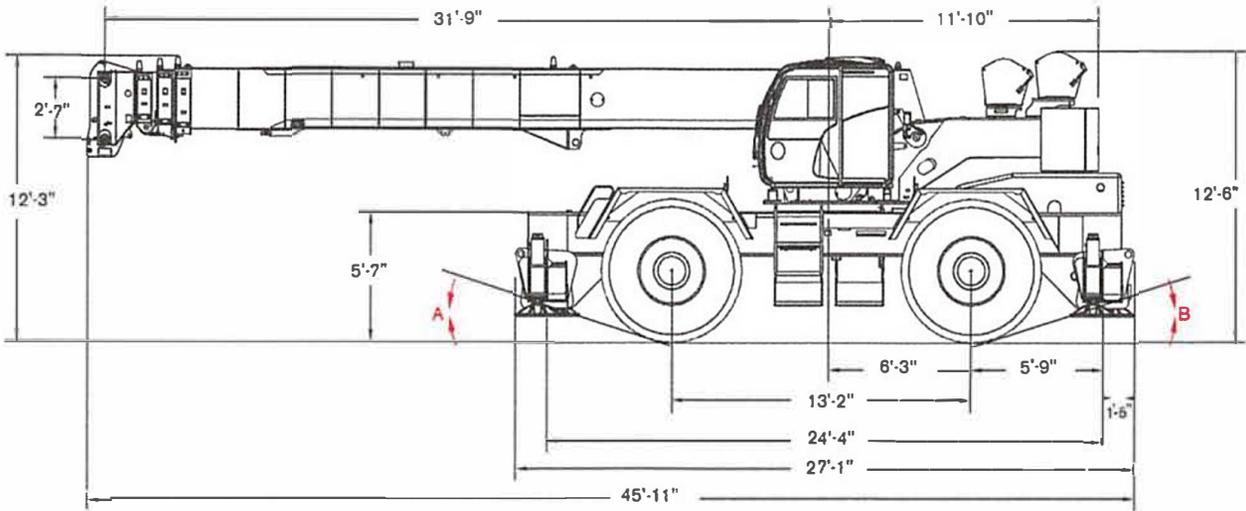
Notes to lifting capacity

Lifting capacities do not exceed 75% of tipping load. Weight of hook blocks and slings is part of the load, and is to be deducted from the capacity ratings. Consult operation manual for further details.

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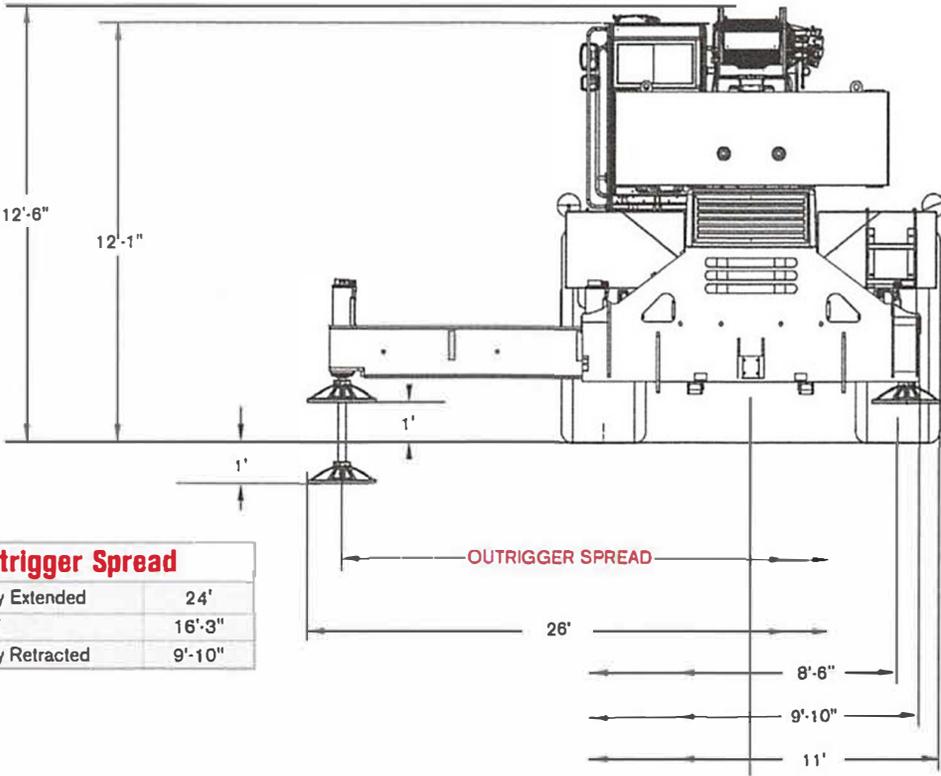
CRANE DIMENSIONS

RT 670



Note: All heights based on 29.5 X 25-28 PR tires.

Angles	
A (Approach Angle)	18°
B (Departure Angle)	17°



Outrigger Spread	
Fully Extended	24'
Half	16'-3"
Fully Retracted	9'-10"



CRANE WEIGHTS

RT 670

Approximate Weights

				
 STD (without hook block)		85,694 lb	45,238 lb	40,456 lb
Add / Subtract for main optional equipment				
 33 ft to 57 ft swing on jib stowed		+ 2,170 lb	+ 3,580 lb	- 1,410 lb
 Auxiliary boom head		+ 125 lb	+ 365 lb	- 240 lb
 Auxiliary hoist*		+ 584 lb	- 30 lb	+ 614 lb
 5 sheaves, 75 US t		+ 1,040 lb	+ 1,971 lb	- 931 lb
 5 sheaves, 60 US t		+ 1,204 lb	+ 2,233 lb	- 1,029 lb

NOTE: Values are subject to 2% variation

* Weight includes rope

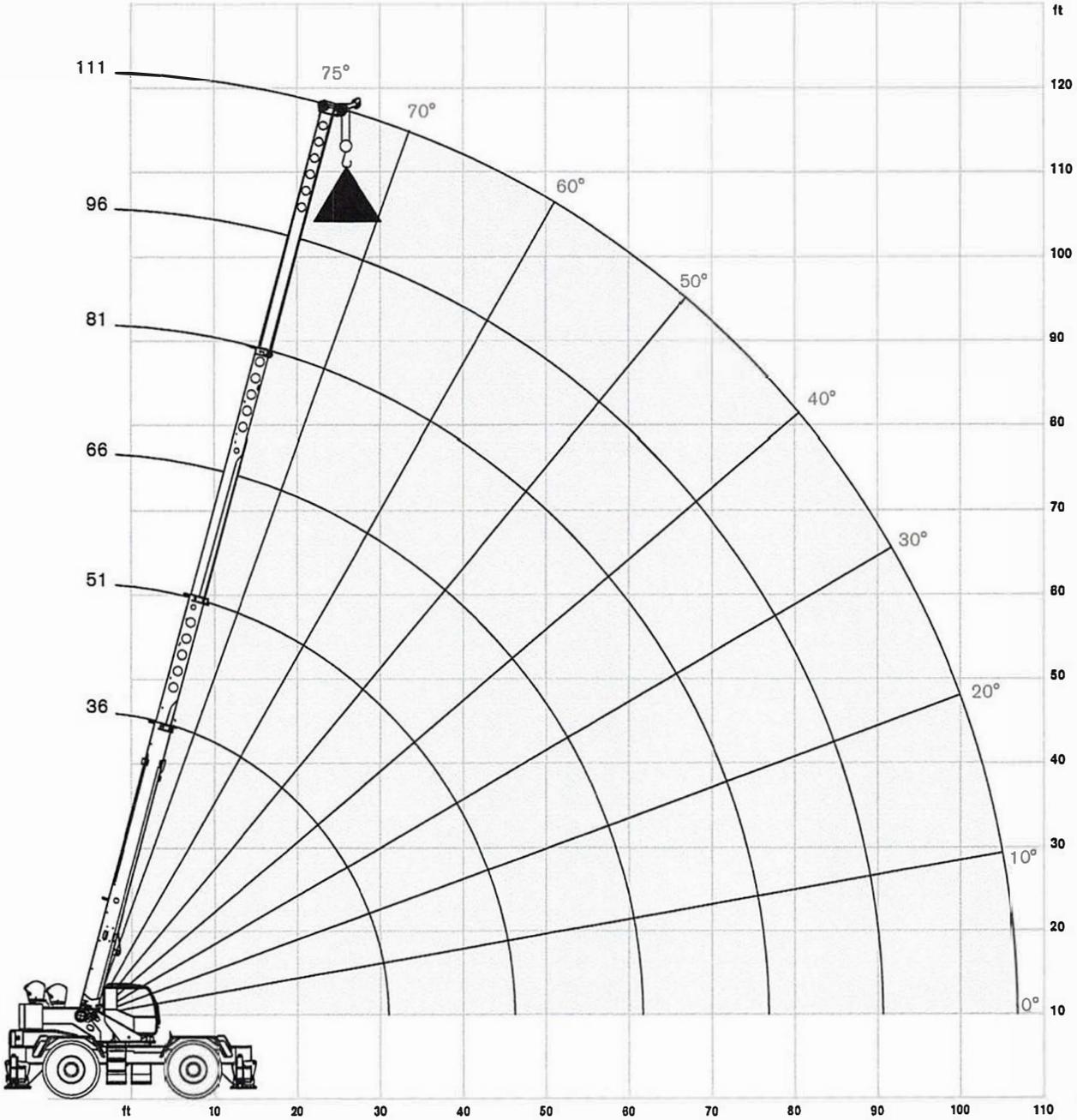
RANGE DIAGRAM - MAIN BOOM

RT 670

Outriggers Fully Extended (100%)



 with hook block:
6 ft 9 in



LOAD CHART- MAIN BOOM

RT 670

Outriggers Fully Extended (100%)

 14,200 lbs counterweight

 Outriggers extended 24 ft (100%)

 360 degree rotation

Standard ASME B30.5

	Boom Length						
	35 ft	51 ft	66 ft	81 ft	96 ft	111 ft	
ft	lb	lb	lb	lb	lb	lb	ft
9	140,000						9
10	130,000	80,000					10
12	106,700	80,000					12
15	85,800	78,400	61,900				15
20	62,000	63,300	54,800	46,200			20
25	47,600	48,800	49,100	40,700	35,300		25
30	37,700	39,100	39,800	36,000	31,200	27,500	30
35		32,200	32,900	32,300	28,000	24,800	35
40		26,900	27,400	27,800	25,300	22,500	40
45		21,300	22,100	22,400	22,600	20,600	45
50			18,200	18,500	18,700	18,800	50
55			15,100	15,500	15,700	15,800	55
60			12,600	13,100	13,300	13,400	60
65				11,200	11,400	11,500	65
70				9,500	9,800	9,900	70
75				8,100	8,400	8,600	75
80					7,300	7,400	80
85					6,200	6,400	85
90					5,300	5,600	90
95						4,800	95
100						4,100	100
105						3,500	105

Notes to lifting capacity

Lifting capacities do not exceed 85% of tipping load. Weight of hook blocks and slings is part of the load, and is to be deducted from the capacity ratings. Consult operation manual for further details.

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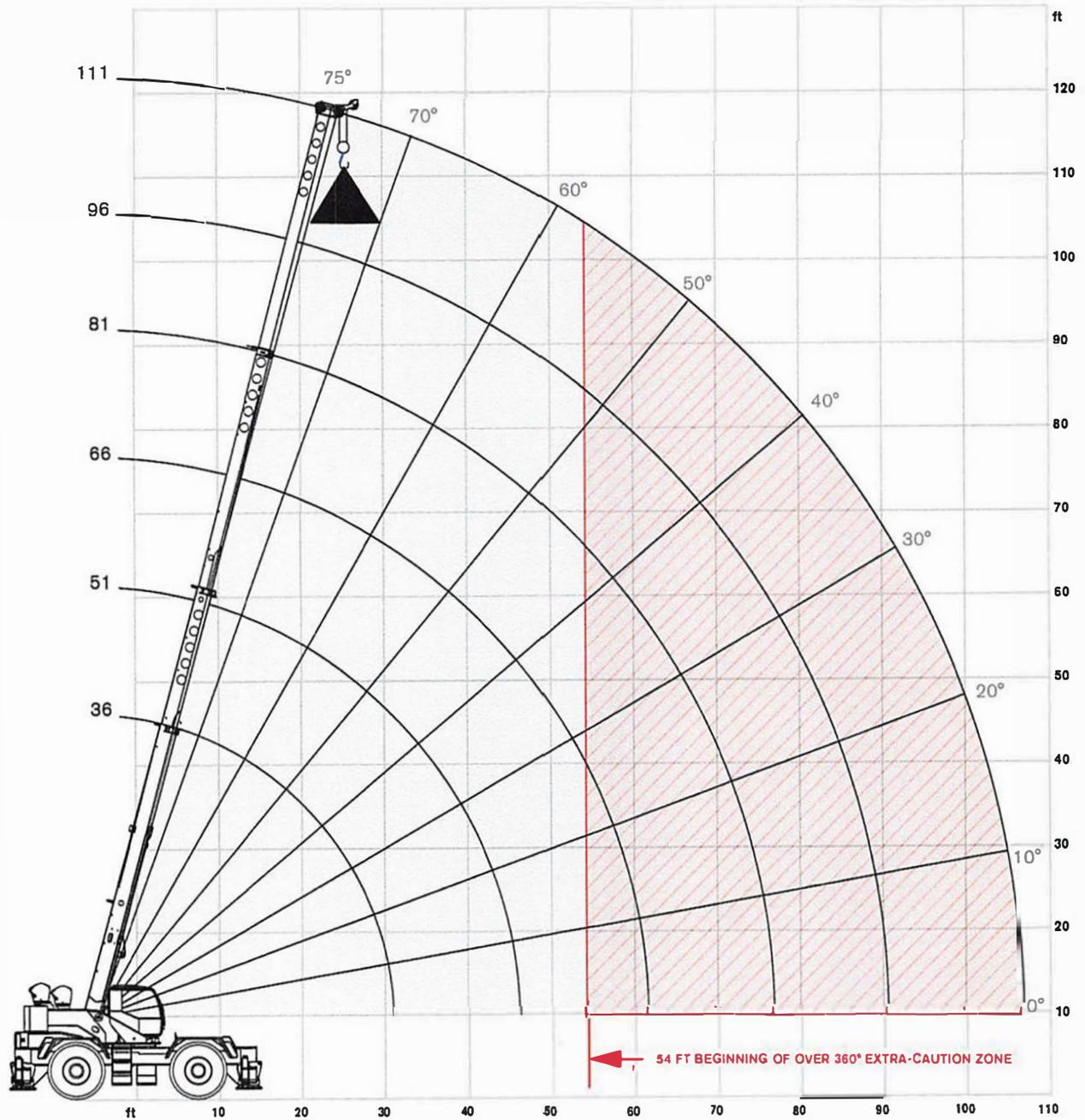
RANGE DIAGRAM - MAIN BOOM

RT 670

Outriggers Fully Retracted (0%)



with hook block:
6 ft 9 in



LOAD CHART- MAIN BOOM

RT 670

Outriggers Fully Retracted (0%)

 14,200 lbs counterweight

 Outriggers retracted 9 ft 10 in (0%)

 360 degree rotation

Standard ASME B30.5

		Boom Length						
		35 ft	51 ft	66 ft	81 ft	96 ft		
ft	lb	lb	lb	lb	lb	lb	lb	ft
10	73,600	74,800						10
12	51,600	52,600						12
15	34,200	35,200	35,700					15
20	20,000	21,300	21,700	22,000				20
25	12,700	14,000	14,500	14,800	14,900			25
30	8,100	9,500	10,100	10,400	10,600	10,700		30
35		6,500	7,100	7,500	7,600	7,700		35
40		4,300	4,900	5,300	5,500	5,600		40
45		2,500	3,300	3,700	3,900	4,000		45
50				2,400	2,600	2,800		50

Notes to lifting capacity

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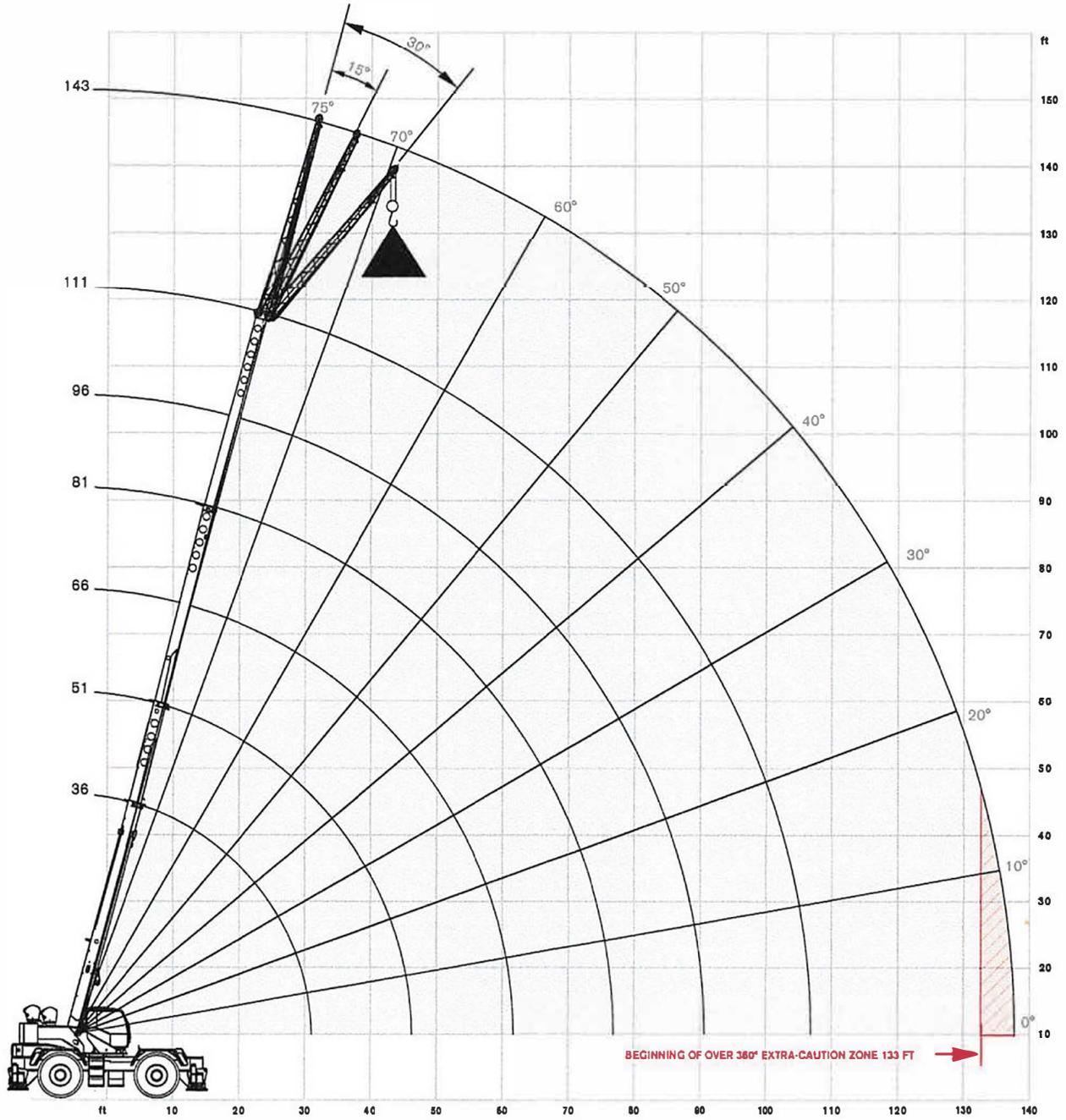
RANGE DIAGRAM - MAIN BOOM

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With Jib, 33 ft offset



with hook block:
6 ft 9 in



LOAD CHART - MAIN BOOM

RT 670

With Jib, 33 ft offset

 14,200 lbs counterweight

 Outriggers extended 24 ft (100%)

 360 degree rotation

Standard ASME B30.5

33 ft Offsettable Jib					
0° Offset		15° Offset		30° Offset	
 Radius (ft)	lbs	 Radius (ft)	lbs	 Radius (ft)	lbs
41	12,500	49	8,400	55	6,500
47	11,800	54	8,100	60	6,300
52	11,200	59	7,700	64	6,200
59	10,300	66	7,300	71	5,900
66	9,500	72	7,000	77	5,800
72	8,800	79	6,700	84	5,600
79	8,100	85	5,400	89	5,400
87	8,700	92	5,100	96	5,200
94	5,600	99	5,100	103	4,900
101	4,600	106	4,300	109	4,100
107	3,800	112	3,500	114	3,500
114	3,000	120	2,800	120	2,800
122	2,200	125	2,100	126	2,100
129	1,700	132	1,600		
135	1,200	137	1,200		

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