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## FULL HYDRAULIC CARRIER-MOUNTED CRANE

# 

## JIB CAPACITIES WITH 35 ft. - 119 ft. BOOM OUTRIGGERS FULLY EXTENDED

Radius	46 ft. JIB CAPACITIES			60 ft. JIB CAPACITIES				74 ft. JIB CAPACITIES				88 ft. JIB CAPACITIES				
in				No Offset		7½° Offset		No Offset		71/2° Offset		No Offset		7½° Offset		
Feet	No Offset		7½° Offset		7 7 7 7 T		/-/2 011361		7 7		<del>                                     </del>					
	800m 4000m		800m 400m		800m 479/e		800m A 110/18		4000 A 19/8		8000 W 4000		15 A 19/6		4700	
25	80°	19,000			/		/ &		200		/ 20	' /	80	' / 1	/ /	§ /
30	78	17,800	80°	15,400	80°	15,000	<u>/</u>	/	80°	10,000	/ ~		/ ~	/	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	´/
35	75.5	16,400	<u> 78</u>	14,200		13,150	80°	11,000	78.5	9,400	80°	9,000	80°	8,000	/ 1	
40	73	14 900		13,000	75	11,900	78	9,910	77	8,900		8,000		7,300	80°	6,400
45	71	13,800	73.5	11,800	73	10,650	76	8,850	75	8,200	· · · · · · · · · · · · · · · · · · ·	7.200		6,800		6,050
50	68.5	12,350	71	10,600	71	9,700	74	8,050	73.5	7,700		6,500		6,300		5,350
55	66	10,900	68.5	9,500	69	8,800	72	7,350	72	7,250	74.3	5,900	73	5,700	76	4,600
60	64	9,800	66	8,300	67	8,000	70	6,700	70	6,650	73	5,300		5,250		4,150
65	61.5	8,400	63.5	7,300	65	7,200	68	6,050	68	6,100	69	4,700		4,700		37700
70	59	7,200	61	6,400	63	6,550	65.5	5,400	66	5,550 E 0E0	67	4,100	68	4,300	71	8 8 8 8 9
75	56	6,000	58.5	5,500	61	5,900	63	4,750	64	5,050	65	3,650	66	3,800	69	2,950
80	53.5	5,100	56	4,700	59	5,300	61	4,150	62	4,600		3,100	64	3,400	67	2,600
85	50.5	4,200	53	3,900	56.5	4,700	58.5	3,540	60	4,150 3,800		2,650	62	3,000	<del></del>	PRODUCE PRODUC
90	47.5	3,500	50	3,250	54.5	4,150	56	2,950	58		58	2,200		2,700		2,000
95	44.5	2,900	47	2,550	52	3,600	53	2,380	56 52 5	3,400 2,950	56	750	58	2,350	61.5	55000000000000000000000000000000000000
100	41	2,300	43.5	1,950	49	3,050	51	1,850	53.5		53.5		56	2,050	59.5	1,650
105	37.5	1,750	40	1,400	46	2,560	48.5	1,400	51	2,550	51	995	54	1,800	57	995
110	33.5	1,300	36.5	995	43	2,110	46	995	48.5	2,100	31	V V V	52	1.500		
115	29	800			40	1,700			46	1,650	-			1,250	-	
120						1,300			43	1,280 -001390		-001396		-001392		-001398
A6-829-001388				-001394		-001200A		-001202A	L	-001350		-001330		-44144		+

## JIB CAPACITY NOTES

- 1. Radius in Feet applies to jib capacities with boom fully extended.
- 2. All jib capacities are based on structural strength and do not exceed 85% of tipping loads with counterweight fully extended in accordance with SAE J-765.
- 3. For 7½° Offset, jibs must be used for single line lifting crane service only.
- 4. Rated load is based on main boom angle regardless of main boom length.
- 5. Maximum length of main boom for purposes of erecting jib below 10° elevation is:

46 ft. Jib - 76 ft. 60 ft. Jib - 71 ft. 74 ft. Jib - 66 ft. 88 ft. Jib - 60 ft.

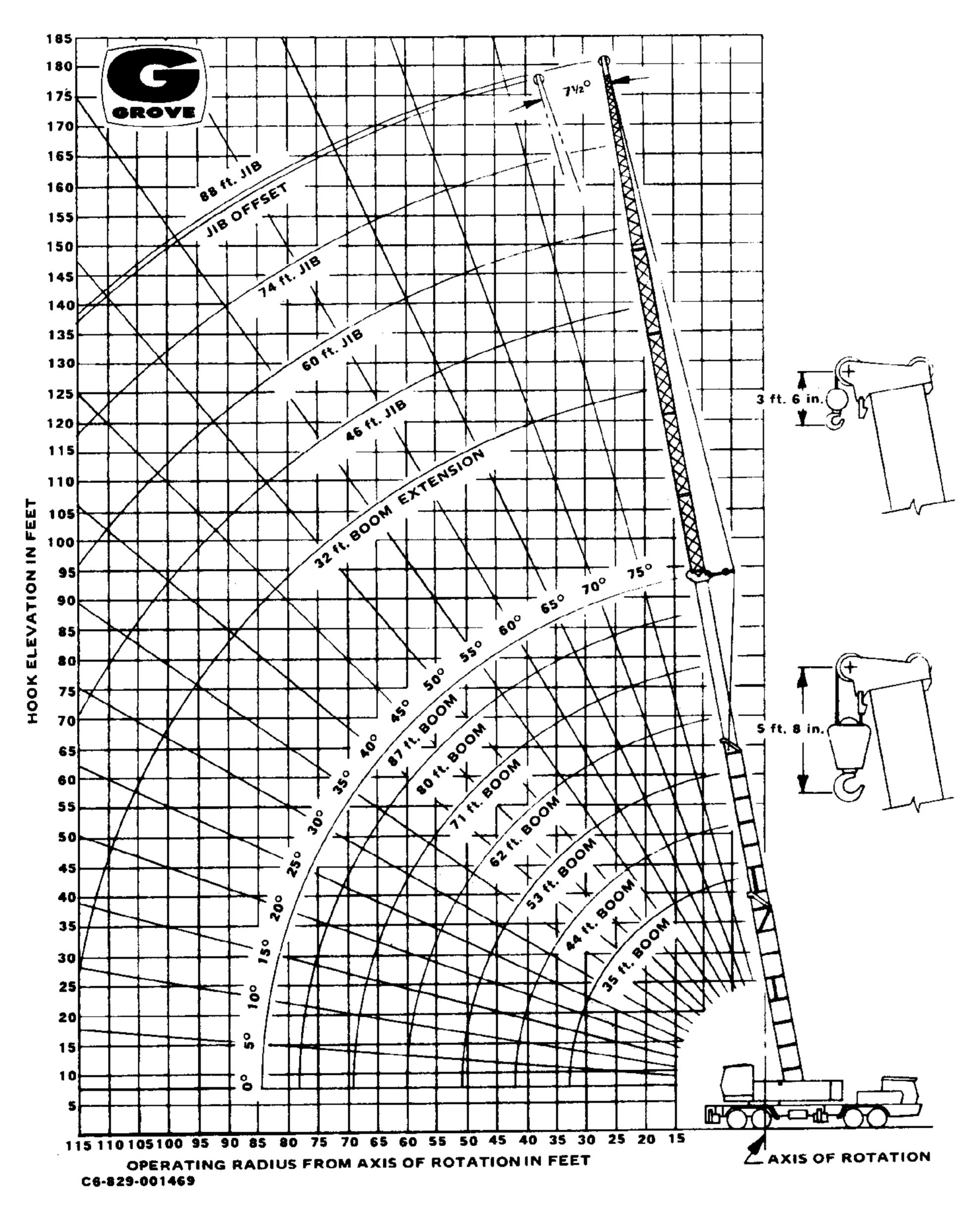
WARNING: Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with every jib occurs rapidly and without advance warning.

60 ft. JIB WARNING: For main boom length greater than 71 ft. with 60 ft. jib in working position, the boom angle must not be less than 10° (12° for 7½° Offset) since loss of stability will occur causing a tipping condition.

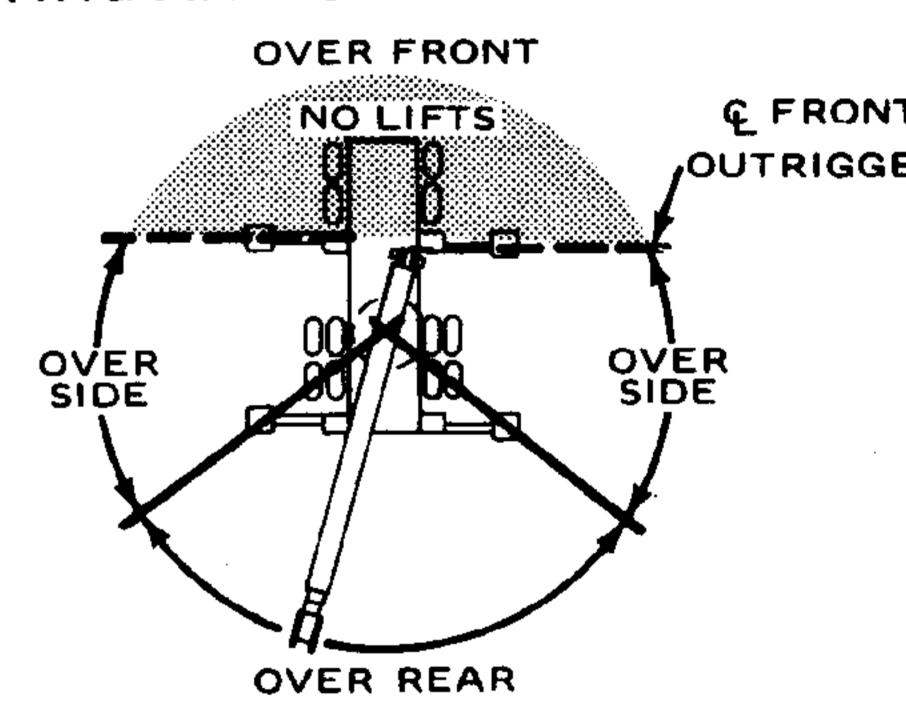
74 ft. JIB WARNING: For main boom length greater than 66 ft. with 74 ft. jib in working position, the boom angle must not be less than 23° (25° for 7½° Offset) since loss of stability will occur causing a tipping condition.

88 ft. JIB WARNING: For main boom length greater than 60 ft. with 88 ft. jib in working position, the boom angle must not be less than 32° (34° for 7½° Offset) since loss of stability will occur causing a tipping condition.

## **RANGE DIAGRAM**



## LIFTING AREAS ON OUTRIGGERS



Through Centerline of Rotation Through Centerline of Outrigger Pad.

NOTE: Boom crossing heavy dashed line (Centerline of Front Outriggers) is considered Over-the-Front.

WARNING: No Over-the-Front Lifting Recommended.



## CROYE MANUFACTURING COMPANY

A DIVISION OF WALTER KIDDE & COMPANY, INC.

SHADY GROVE • PENNSYLVANIA 17256

MEMBER: POWER CRANE & SHOVEL ASSOCIATION

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## RATED LIFTING CAPACITIES IN POUNDS 35 ft. - 119 ft. BOOM **OVER SIDE AND REAR** WITH FULLY EXTENDED OUTRIGGERS

Radius	Tra	87 + 32 Ext.				
Feet	*35	48	61	74	87	119
12	130,000	97,000	81,200			
15	110,000	88,000	74,000	62,000	50,000	
20	84,000	74;000	63,200	52,500	42,500	30,000
25	63,500	63,500	54,000	45,000	37,000	27,700
30	43,900	43,900	43,900	39,000	32,300	25,250
35		33,100	33,100	33,100	28,200	22,600
40		26,500	26,500	26,500	24,500	19,900
45			21,500	21,500	21,500	17,100
50	<u> </u>		17,450	17,450	17,450	15,000
55			14,500	14,500	14,500	13,500
60				12,450	12,450	12,500
65				10,500	10,500	11,600
70				9,000	9,000	10,500
75					7,500	9,500
80					6,400	8,100
85						7,050
90				]		6,120
95						5,300
100						4,640
105						4,000
110						3,450
115	<u> </u>	<u> </u>				2,825
120						

**32 ft. Ext. Capacities							
····							
/	MGLE						
PO.	AM						
80.0°	30,000						
78.3°	27,700						
76.0°	25,250						
73.5°	22,600						
71.0°	19,900						
68.5°	17,100						
65.5°							
	15,000						
63.0°	13,500						
60.0°	12,500						
57.0°	11,600						
53.0°	10,500						
50.0°	9,700						
46.0°	8,900						
42.0°	8,250						
38.0°	7,750						
34.0°	7,300						
30.0°	6,900						
25.0°	6,500						
18.0∘	6,200						
5.0°	5,800						

### TRAPEZOIDAL BOOM and 32 FT. EXT. NOTES

Capacities appearing in shaded area are based upon structural strength and tipping should not be relied upon as a capacity limitation. Capacities do not exceed 85% of tipping loads with counterweight fully extended as determined by test in accordance with SAE Recommended Practice - Crane Load Stability Test Code - SAE J-765. \*Capacities in shaded area for 35 ft. boom length shall be lifted with boom fully retracted. If boom is not fully retracted, capacities shall not exceed those shown for 48 ft. boom length. \*\*These capacities are based on structural strength of 32 ft.ext.at listed boom angle regardless of boom length. When lifting with 32 ft.ext.and LESS THAN a fully extended trapezoidal boom, the loads lifted MUST NOT EXCEED the 32 ft. ext. structural capacity at the lifted boom angle OR the largest stability capacity listed for the actual working radius, whichever is less.

### NOTES TO LIFTING CAPACITIES

- 1. Rated lifting capacities are based on freely suspended loads. They are the maximum covered by the manufacturer's warranty with the machine leveled and standing on a firm supporting surface. Ratings with outriggers are based on outriggers being extended to their maximum positions.
  - Practical working loads for each particular job shall be established by the user depending on operating conditions; including the supporting surface, wind and other factors affecting stability, hazardous surroundings, experience of personnel, handling of load, etc.
  - Operating radius is the horizontal distance from the axis of rotation to the centerline of the hoist line or tackle with loads applied.
  - "On Rubber" lifting (if permitted) depends on proper tire inflation, capacity, and condition. "On Rubber" loads may be transported at a maximum vehicle speed of 2.5 mi/hr. (4 km/hr.), if specified as 2.5 MPH loads, on a smooth and level surface only.
- Jibs may be used for single line lifting crane service only. Jib capacities are based on structural strength of jib or main boom. Jib loads must not exceed main boom lifting capacities for the actual operating radius.
- Operation is not intended or approved for any conditions outside of those shown hereon. Handling of personnel from the boom is not authorized

except with equipment furnished and installed by Grove Manufacturing

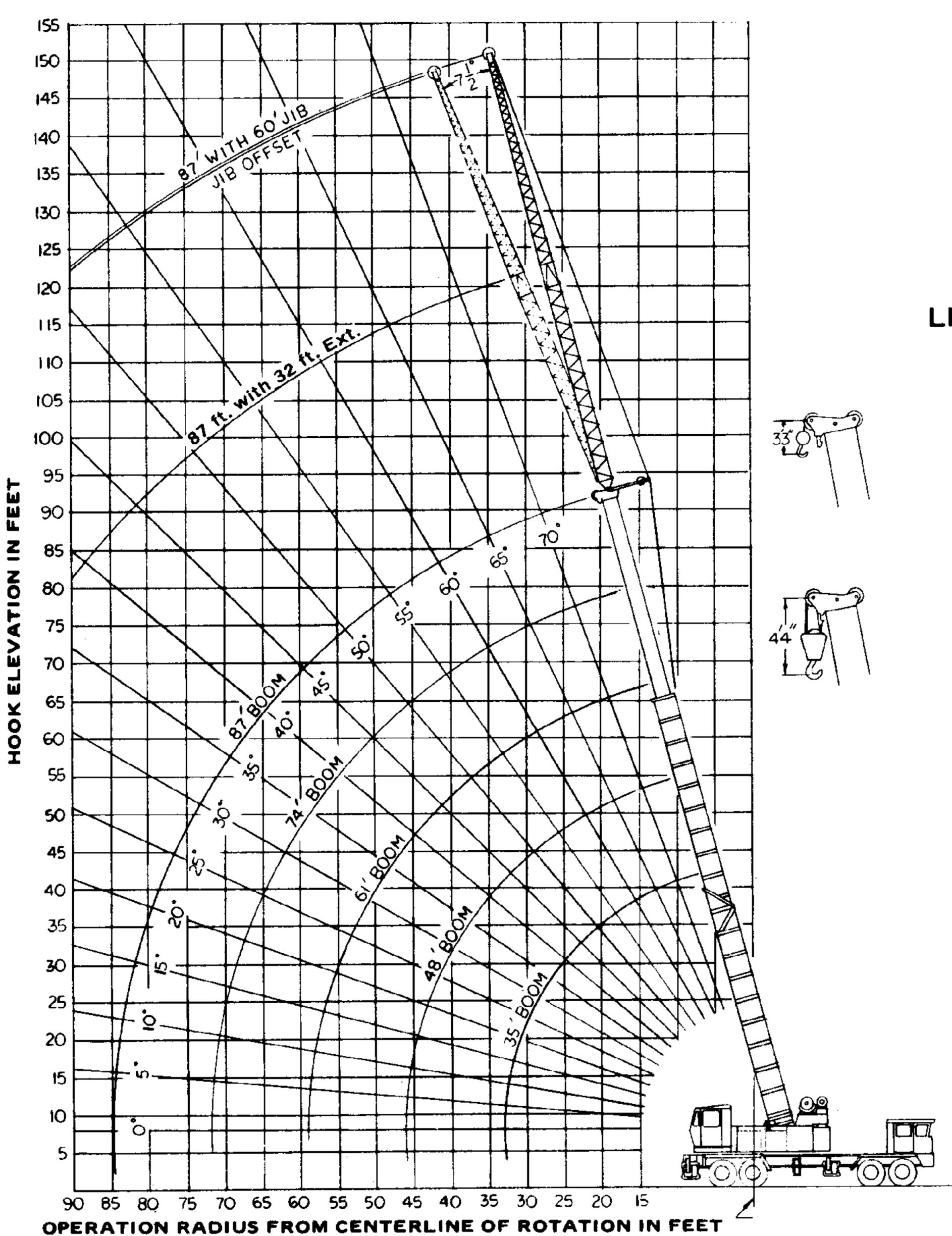
- Company.
- 7. For clamshell or concrete bucket operation, weight of bucket and load
- must not exceed 90% of rated lifting capacities.

the load and suitable allowances must be made.

- 8. Power-telescoping boom sections must be extended equally at all times. Long cantilever booms can create a tipping condition when in extended and lowered position.
- 9. The maximum load which may be telescoped is limited by hydraulic pressure, boom angle, boom lubrication, etc. It is safe to attempt to telescope any load within the limits of rated lifting capacity chart.
- 10. With certain boom and hoist tackle combinations, maximum capacities may not be obtainable with standard rope lengths.
- 11. With certain boom and load combinations, raising of load with boom lift cylinders may not be possible. Operational safety is not affected by this condition.
- 12. Keep load handling devices a minimum of 12 inches (30 CM) below boom head when lowering or extending boom.
- 13. For multiple part reeving, use one part of line for each 13,000 lbs. of load. 14. All load handling devices and/or boom attachments are considered part of

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## **RANGE DIAGRAM**



## LIFTING AREAS ON OUTRIGGERS

OVER FRONT
OUTRIGGERS

OVER
SIDE

OVER
SIDE

OVER
SIDE

OVER REAR

From Centerline of Rotation Through Centerline of Outrigger Pad.

NOTE: Boom crossing heavy dashed line (Centerline of Front Outriggers) is considered Over-the-Front.

WARNING: No Over-the-Front Lifting Recommended.



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