

# Operation

MB

Fully extended – 360°

22,000 lb		23' 11-3/8" spread										360°			
		39.4'	52.7'	52.7'	66.1'	66.1'	66.1'	66.1'	79.4'	79.4'	79.4'	79.4'	92.8'	92.8'	92.8'
ft	1,000 lb														
8	242,500*	143,300	77,200	-	-	-	-	-	-	-	-	-	-	-	-
10	180,300	143,300	77,200	136,900	110,200	77,200	63,100	-	-	-	-	-	-	-	-
12	159,000	143,300	77,200	127,400	110,200	77,200	57,800	106,300	106,300	77,200	61,100	-	-	-	-
15	133,200	132,700	72,100	115,300	110,200	77,200	51,400	97,000	106,300	77,200	55,100	80,700	69,900	48,100	-
20	101,400	100,500	62,200	97,200	101,400	68,100	43,400	81,800	102,300	71,400	47,400	71,700	69,900	42,500	-
25	78,000	77,200	54,900	76,700	77,800	60,800	37,500	70,500	78,700	64,600	41,700	62,400	65,700	37,900	-
30	60,800	59,700	49,400	58,900	60,600	55,300	33,100	60,000	61,900	59,100	37,300	54,700	60,400	34,000	-
35	-	45,600	45,000	44,800	46,500	50,700	29,500	45,600	47,800	52,900	33,500	47,000	52,500	30,400	-
40	-	35,100	39,900	34,200	35,900	41,400	26,700	35,100	37,300	41,900	30,600	36,400	41,400	27,600	-
45	-	27,800	32,200	26,900	28,700	33,700	24,500	27,800	29,800	34,200	28,200	28,900	33,700	25,400	-
50	-	-	-	21,600	23,100	28,200	22,500	22,300	24,300	28,400	26,000	23,400	28,000	23,400	-
55	-	-	-	17,400	19,000	23,800	20,900	18,100	20,100	24,000	24,300	19,200	23,800	21,600	-
60	-	-	-	-	-	-	-	15,000	16,800	20,700	21,800	15,900	20,300	20,100	-
65	-	-	-	-	-	-	-	12,300	14,100	17,900	19,000	13,200	17,400	18,700	-
70	-	-	-	-	-	-	-	10,100	11,900	15,700	16,800	11,000	15,200	16,800	-
75	-	-	-	-	-	-	-	-	-	-	-	9,300	13,200	15,000	-
80	-	-	-	-	-	-	-	-	-	-	-	7,700	11,700	13,200	-
85	-	-	-	-	-	-	-	-	-	-	-	6,400	10,400	11,900	-
	16	10	6	9	8	6	6	7	7	6	5	6	5	4	
1)	42,100	41,900	44,100	34,000	39,700	44,100	35,100	35,100	39,200	41,000	35,900	35,300	38,100	35,900	
2)	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	
3)	1	10	1	10	11	2	1	11	12	2	1	12	2	1	
4)	1	24	2	25	26	12	3	27	28	13	4	29	14	5	

### Telescopic conditions (%)

	1.	0	46	0	92	46	0	0	92	46	0	0	92	0	0
	2.	0	0	0	0	46	0	0	46	46	0	0	46	46	0
	3.	0	0	0	0	0	0	0	0	46	46	0	46	46	0
	4.	0	0	0	0	0	46	0	0	0	46	46	0	46	92
	5.	0	0	46	0	0	46	92	0	0	46	92	0	46	92

\* Over front with special equipment

- 1) Maximum capacity without boom pin
- 2) Minimum boom angle (°) for indicator length (no load)
- 3) Boom block
- 4) Boom number

### NOTE:

The lifting capacity data stored in the LOAD MOMENT INDICATOR (AML-C) is based on the standard number of parts of line listed in the chart.

Fully extended – 360°

22,000 lb		23' 11-3/8" spread										360°					
		106.1'	106.1'	106.1'	119.5'	119.5'	119.5'	132.8'	132.8'	132.8'	146.2'	146.2'	146.2'	159.6'	159.6'	172.9'	183.7'
ft	1,000 lb																
20	60,400	56,200	41,200	-	41,000	-	-	-	-	-	-	-	-	-	-	-	-
25	55,100	56,200	37,700	45,600	41,000	33,100	37,300	31,700	31,100	-	-	-	-	-	-	-	-
30	49,800	56,200	34,400	43,900	41,000	30,200	37,300	31,700	29,100	31,700	27,300	26,500	-	-	-	-	-
35	44,500	51,600	31,100	40,100	39,200	27,300	35,700	30,900	27,100	30,900	26,500	26,000	25,600	23,100	20,700	-	-
40	38,100	40,600	28,200	36,600	36,800	25,100	32,800	28,900	25,100	28,900	24,900	24,500	25,600	23,100	20,700	18,100	-
45	30,400	32,800	26,000	32,000	34,200	22,900	30,000	27,100	23,100	26,900	23,400	23,100	24,300	22,500	20,700	18,100	-
50	24,900	27,300	24,000	26,500	28,400	21,200	26,200	25,400	21,600	24,900	21,800	21,600	22,700	21,400	20,500	18,100	-
55	20,700	22,900	22,300	22,000	24,000	19,600	22,000	23,800	20,100	22,300	20,500	20,300	21,400	20,300	19,600	17,900	-
60	17,400	19,400	20,700	18,500	20,500	18,300	18,500	20,900	19,000	18,700	19,400	19,200	19,400	19,400	18,500	17,000	-
65	14,600	16,800	19,400	15,900	17,600	17,000	15,900	18,100	17,600	16,100	18,300	18,100	16,500	17,900	17,200	16,300	-
70	12,300	14,300	17,200	13,400	15,400	15,900	13,400	15,900	16,800	13,700	15,900	16,100	14,300	15,700	14,800	14,800	-
75	10,400	12,600	15,200	11,700	13,400	15,000	11,500	13,900	14,800	11,900	13,900	14,100	12,300	13,700	12,800	12,800	-
80	8,800	10,800	13,400	9,900	11,700	13,200	9,900	12,100	13,000	10,100	12,300	12,300	10,600	11,900	11,200	11,200	-
85	7,500	9,500	12,100	8,600	10,400	11,700	8,400	10,800	11,500	8,800	10,800	11,000	9,300	10,600	9,700	9,700	-
90	6,200	8,200	10,800	7,300	9,000	10,600	7,300	9,500	10,400	7,500	9,500	9,700	7,900	9,300	8,600	8,600	-
95	5,100	7,100	9,700	6,200	7,900	9,500	6,200	8,400	9,300	6,400	8,400	8,600	6,800	8,200	7,500	7,500	-
100	-	-	-	5,300	7,100	8,400	5,300	7,500	8,200	5,500	7,500	7,700	6,000	7,300	6,400	6,400	-
105	-	-	-	4,600	6,200	7,500	4,400	6,600	7,300	4,600	6,600	6,800	5,100	6,400	5,500	5,500	-
110	-	-	-	3,700	5,500	6,800	3,700	5,700	6,600	3,700	6,000	6,000	4,200	5,500	4,900	4,900	-
115	-	-	-	-	-	-	3,100	5,100	6,000	3,100	5,100	5,300	3,500	4,900	4,200	4,200	-
120	-	-	-	-	-	-	2,400	4,600	5,300	2,600	4,600	4,600	3,100	4,200	3,500	3,500	-
125	-	-	-	-	-	-	2,000	4,200	4,900	2,000	4,000	4,200	2,400	3,700	2,900	2,900	-
130	-	-	-	-	-	-	-	-	-	-	3,500	3,700	2,000	3,100	2,400	2,400	-
135	-	-	-	-	-	-	-	-	-	-	3,100	3,300	-	2,600	2,000	-	-
140	-	-	-	-	-	-	-	-	-	-	-	-	-	2,200	-	-	-
145	-	-	-	-	-	-	-	-	-	-	-	-	-	2,000	-	-	-
	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
1)	35,300	38,100	36,800	34,000	34,000	33,100	31,700	30,400	30,600	27,300	27,300	26,500	25,600	23,100	20,700	18,100	-
2)	0°	0°	0°	0°	0°	0°	0°	0°	0°	21°	0°	0°	30°	0°	35°	41°	-
3)	13	2	1	2	3	1	5	4	1	6	7	1	8	1	1	9	-
4)	30	15	6	16	17	7	19	18	8	20	21	9	22	10	11	23	-

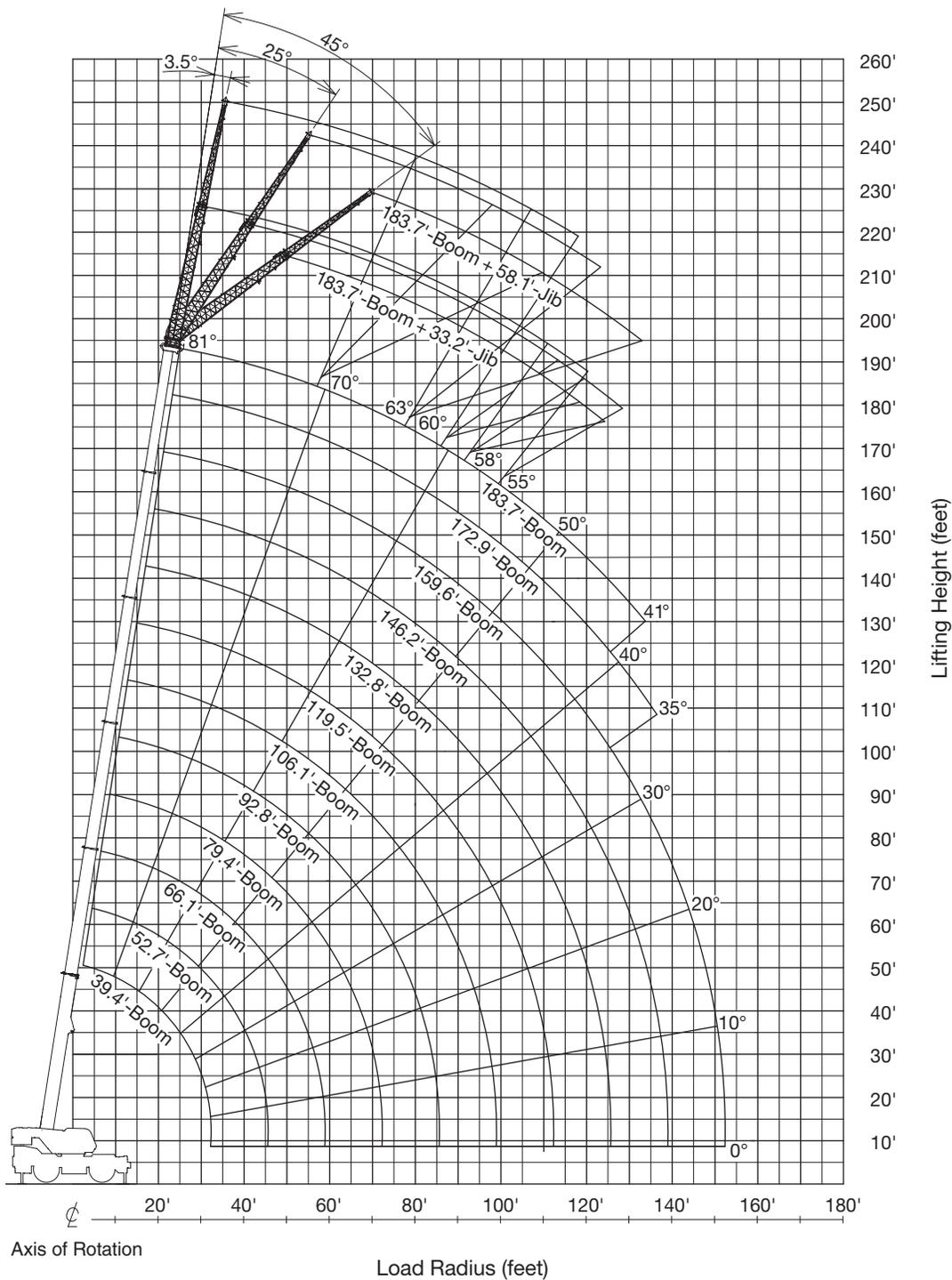
**Telescopic conditions (%)**

	1.	92	46	0	92	46	0	92	46	0	92	46	0	92	46	92	100
	2.	46	46	0	46	46	0	92	46	46	92	46	92	92	92	92	100
	3.	46	46	46	46	46	92	46	46	92	92	92	92	92	92	92	100
	4.	46	46	92	46	46	92	46	92	92	46	92	92	92	92	92	100
	5.	0	46	92	46	92	92	46	92	92	46	92	92	46	92	92	100

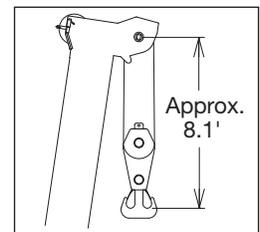
- 1) Maximum capacity without boom pin
- 2) Minimum boom angle (°) for indicator length (no load)
- 3) Boom block
- 4) Boom number

**NOTE:**

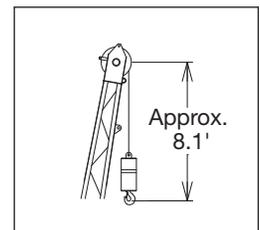
The lifting capacity data stored in the LOAD MOMENT INDICATOR (AML-C) is based on the standard number of parts of line listed in the chart.



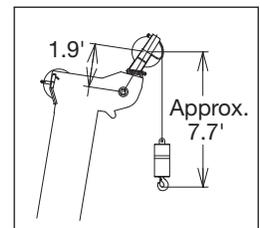
### BOOM



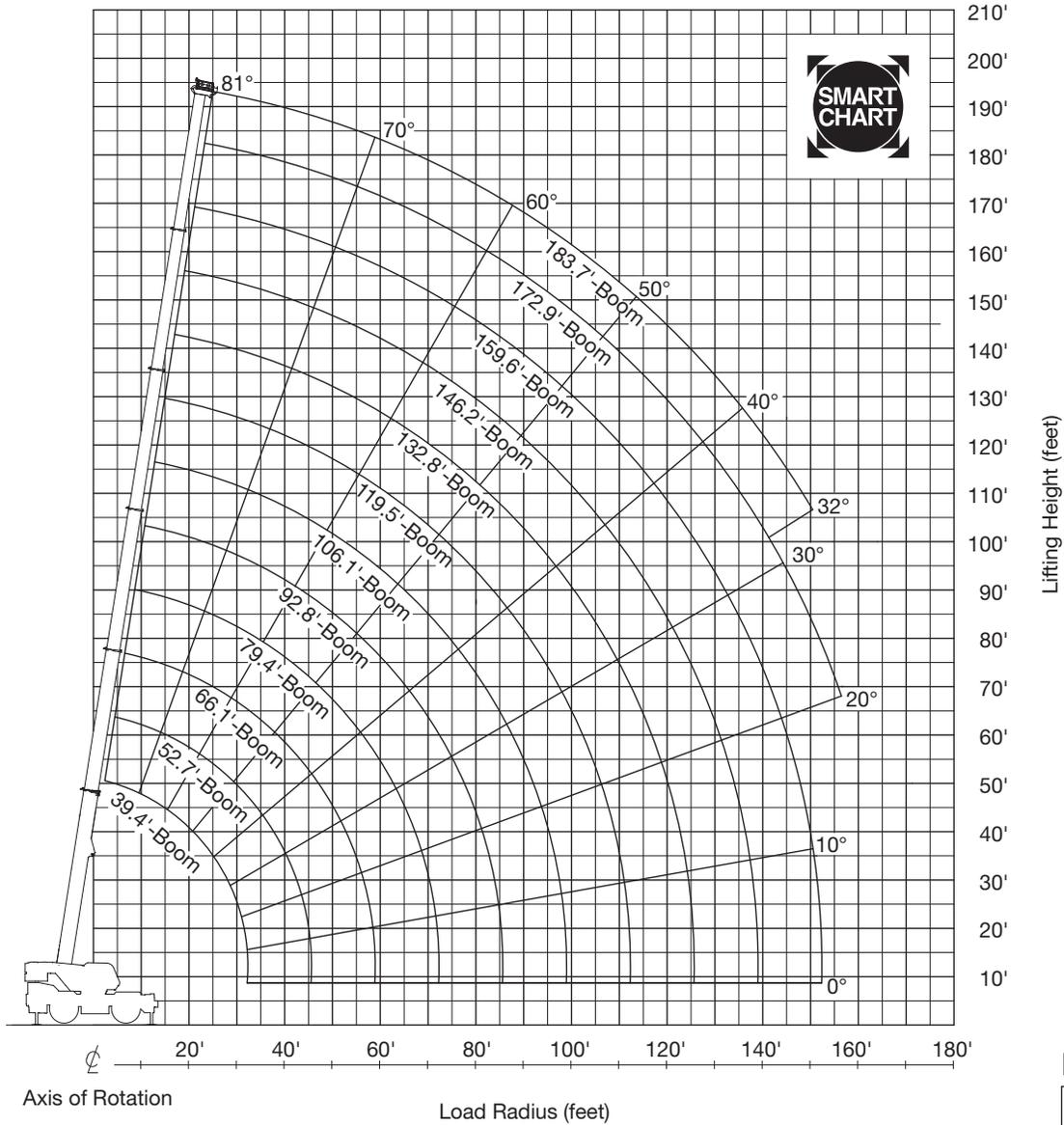
### JIB



### SINGLE TOP



**NOTE:**  
 Boom and jib geometry shown are for unloaded condition and machine standing level on firm supporting surface.  
 Boom deflection and subsequent radius and boom angle change must be accounted for when applying load to hook.

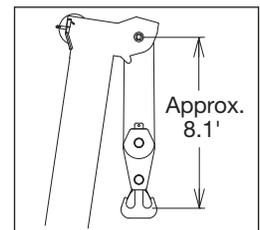


Axis of Rotation

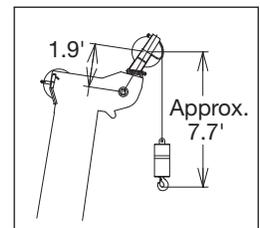
Load Radius (feet)

**NOTE:**  
 Boom and jib geometry shown are for unloaded condition and machine standing level on firm supporting surface.  
 Boom deflection and subsequent radius and boom angle change must be accounted for when applying load to hook.

## BOOM



## SINGLE TOP



## Fully extended – 360° – Smart Chart

22,000 lb		23' 11-3/8" spread										360°		
ft	39.4'	52.7'	52.7'	66.1'	66.1'	66.1'	66.1'	79.4'	79.4'	79.4'	79.4'	92.8'	92.8'	92.8'
	1,000 lb													
8	242,500*	143,300	77,200	-	-	-	-	-	-	-	-	-	-	-
10	180,300	143,300	77,200	136,900	110,200	77,200	63,100	-	-	-	-	-	-	-
12	159,000	143,300	77,200	127,400	110,200	77,200	57,800	106,300	106,300	77,200	61,100	-	-	-
15	133,200	132,700	72,100	115,300	110,200	77,200	51,400	97,000	106,300	77,200	55,100	80,700	69,900	48,100
20	101,400	100,500	62,200	97,200	101,400	68,100	43,400	81,800	102,300	71,400	47,400	71,700	69,900	42,500
25	78,000	77,200	54,900	76,700	77,800	60,800	37,500	70,500	78,700	64,600	41,700	62,400	65,700	37,900
30	60,800	59,700	49,400	58,900	60,600	55,300	33,100	60,000	61,900	59,100	37,300	54,700	60,400	34,000
35	-	47,200	45,000	46,300	48,100	50,700	29,500	47,200	49,200	53,100	33,500	48,500	53,400	30,400
40	-	38,100	41,700	37,300	39,000	44,100	26,700	38,100	40,100	44,500	30,600	39,500	44,100	27,600
45	-	31,500	35,700	30,600	32,200	37,300	24,500	31,300	33,300	37,500	28,200	32,600	37,300	25,400
50	-	-	-	25,400	26,900	32,000	22,500	26,200	28,000	32,200	26,000	27,300	31,700	23,400
55	-	-	-	21,400	22,900	27,600	20,900	22,000	23,800	28,000	24,300	23,100	27,600	21,600
60	-	-	-	-	-	-	-	18,500	20,500	24,500	22,900	19,600	24,000	20,100
65	-	-	-	-	-	-	-	15,400	17,400	21,400	21,600	16,500	20,900	18,700
70	-	-	-	-	-	-	-	13,000	14,800	18,700	19,800	13,900	18,300	17,600
75	-	-	-	-	-	-	-	-	-	-	-	11,900	16,100	16,500
80	-	-	-	-	-	-	-	-	-	-	-	9,900	14,100	15,900
85	-	-	-	-	-	-	-	-	-	-	-	8,600	12,600	14,100
	16	10	6	9	8	6	6	7	7	6	5	6	5	4
1)	42,100	41,900	44,100	34,000	39,700	44,100	35,100	35,100	39,200	41,000	35,900	35,300	38,100	35,900
2)	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°
3)	1	10	1	10	11	2	1	11	12	2	1	12	2	1
4)	1	24	2	25	26	12	3	27	28	13	4	29	14	5

### Telescopic conditions (%)

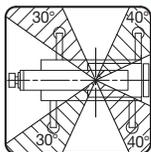
1.	0	46	0	92	46	0	0	92	46	0	0	92	0	0
2.	0	0	0	0	46	0	0	46	46	0	0	46	46	0
3.	0	0	0	0	0	0	0	0	46	46	0	46	46	0
4.	0	0	0	0	0	46	0	0	0	46	46	0	46	92
5.	0	0	46	0	0	46	92	0	0	46	92	0	46	92

\* Over front with special equipment

- 1) Maximum capacity without boom pin
- 2) Minimum boom angle (°) for indicator length (no load)
- 3) Boom block
- 4) Boom number



Smart Chart



NOTE:

The lifting capacity data stored in the LOAD MOMENT INDICATOR (AML-C) is based on the standard number of parts of line listed in the chart.

## Fully extended – 360° – Smart Chart

22,000 lb		23' 11-3/8" spread										360°					
		106.1'	106.1'	106.1'	119.5'	119.5'	119.5'	132.8'	132.8'	132.8'	146.2'	146.2'	146.2'	159.6'	159.6'	172.9'	183.7'
ft		1,000 lb															
20	60,400	56,200	41,200	-	41,000	-	-	-	-	-	-	-	-	-	-	-	-
25	55,100	56,200	37,700	45,600	41,000	33,100	37,300	31,700	31,100	-	-	-	-	-	-	-	-
30	49,800	56,200	34,400	43,900	41,000	30,200	37,300	31,700	29,100	31,700	27,300	26,500	-	-	-	-	-
35	44,500	52,500	31,100	40,100	39,200	27,300	35,700	30,900	27,100	30,900	26,500	26,000	25,600	23,100	20,700	-	-
40	40,100	43,400	28,200	36,600	36,800	25,100	32,800	28,900	25,100	28,900	24,900	24,500	25,600	23,100	20,700	18,100	-
45	34,200	36,400	26,000	33,500	34,400	22,900	30,000	27,100	23,100	26,900	23,400	23,100	24,300	22,500	20,700	18,100	-
50	28,900	31,100	24,000	30,200	32,200	21,200	27,800	25,400	21,600	24,900	21,800	21,600	22,700	21,400	20,500	18,100	-
55	24,500	26,700	22,300	25,800	27,800	19,600	25,800	23,800	20,100	23,100	20,500	20,300	21,400	20,300	19,600	17,900	-
60	20,900	23,400	20,700	22,300	24,300	18,300	22,300	22,500	19,000	21,400	19,400	19,200	19,800	19,400	18,500	17,000	-
65	17,900	20,100	19,400	19,200	21,200	17,000	19,200	21,200	17,600	19,400	18,300	18,100	18,700	18,300	17,400	16,300	-
70	15,200	17,400	18,100	16,500	18,500	15,900	16,500	19,000	16,800	16,800	17,200	17,200	17,200	17,400	16,500	15,400	-
75	13,000	15,200	17,200	14,300	16,300	15,000	14,300	16,800	15,700	14,600	16,300	16,100	15,000	16,300	15,700	14,600	-
80	11,200	13,200	16,100	12,300	14,300	14,100	12,300	14,800	15,000	12,600	14,800	15,000	13,000	14,600	13,700	13,700	-
85	9,700	11,700	14,300	10,800	12,600	13,200	10,800	13,000	13,900	11,000	13,000	13,200	11,500	12,800	12,100	12,100	-
90	8,400	10,400	13,000	9,500	11,200	12,600	9,300	11,700	12,300	9,500	11,700	11,900	10,100	11,500	10,600	10,600	-
95	7,100	9,000	11,700	8,200	9,900	11,500	8,200	10,400	11,200	8,400	10,400	10,600	8,800	10,100	9,500	9,300	-
100	-	-	-	7,100	8,800	10,400	7,100	9,300	10,100	7,300	9,300	9,500	7,700	9,000	8,400	8,200	-
105	-	-	-	6,200	7,900	9,300	6,200	8,400	9,000	6,400	8,400	8,600	6,800	7,900	7,300	7,300	-
110	-	-	-	5,300	7,100	8,600	5,300	7,500	8,200	5,500	7,500	7,700	6,000	7,300	6,400	6,400	-
115	-	-	-	-	-	-	4,400	6,600	7,500	4,600	6,600	6,800	5,100	6,400	5,700	5,700	-
120	-	-	-	-	-	-	3,700	6,000	6,800	4,000	6,000	6,200	4,400	5,700	5,100	4,900	-
125	-	-	-	-	-	-	3,300	5,500	6,200	3,300	5,300	5,500	3,700	5,100	4,400	4,200	-
130	-	-	-	-	-	-	-	-	-	2,900	4,900	5,100	3,300	4,400	3,700	3,700	-
135	-	-	-	-	-	-	-	-	-	2,400	4,400	4,400	2,600	4,000	3,300	3,100	-
140	-	-	-	-	-	-	-	-	-	-	-	-	2,200	3,500	2,600	2,600	-
145	-	-	-	-	-	-	-	-	-	-	-	-	-	3,100	2,200	2,200	-
150	-	-	-	-	-	-	-	-	-	-	-	-	-	2,600	2,000	-	-
	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
1)	35,300	38,100	36,800	34,000	34,000	33,100	31,700	30,400	30,600	27,300	27,300	26,500	25,600	23,100	20,700	18,100	-
2)	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	20°	32°	-
3)	13	2	1	2	3	1	5	4	1	6	7	1	8	1	1	9	-
4)	30	15	6	16	17	7	19	18	8	20	21	9	22	10	11	23	-

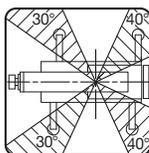
### Telescopic conditions (%)

	1.	92	46	0	92	46	0	92	46	0	92	46	0	92	46	92	100
	2.	46	46	0	46	46	0	92	46	46	92	46	92	92	92	92	100
	3.	46	46	46	46	46	92	46	46	92	92	92	92	92	92	92	100
	4.	46	46	92	46	46	92	46	92	92	46	92	92	92	92	92	100
	5.	0	46	92	46	92	92	46	92	92	46	92	92	46	92	92	100

- 1) Maximum capacity without boom pin
- 2) Minimum boom angle (°) for indicator length (no load)
- 3) Boom block
- 4) Boom number



Smart Chart



### NOTE:

The lifting capacity data stored in the LOAD MOMENT INDICATOR (AML-C) is based on the standard number of parts of line listed in the chart.

## On rubber stationary

22,000 lb		0°*				
 39.4'		52.7'	66.1'	79.4'	92.8'	
ft		1,000 lb				
15	62°	50,400	-	-	-	-
20	53°	38,000	64° 40,300	-	-	-
25	42°	29,400	58° 31,900	65° 33,000	-	-
30	28°	23,300	50° 25,800	60° 26,900	66° 28,000	71° 28,100
35	-	-	42° 21,100	55° 22,300	62° 23,400	67° 23,500
40	-	-	32° 14,900	49° 16,400	58° 19,800	64° 19,900
45	-	-	17° 11,600	42° 13,000	53° 14,200	60° 14,400
50	-	-	-	35° 10,500	48° 11,700	56° 11,800
55	-	-	-	25° 8,500	43° 9,600	52° 9,800
60	-	-	-	-	37° 8,000	48° 8,100
65	-	-	-	-	30° 6,600	43° 6,800
70	-	-	-	-	19° 5,500	38° 5,600
75	-	-	-	-	-	32° 4,700
80	-	-	-	-	-	25° 3,800
85	-	-	-	-	-	13° 3,200
		4	4	4	4	4
2)	0°	0°	0°	0°	0°	0°
<b>Telescopic conditions (%)</b>						
	1.	0	0	0	0	0
	2.	0	0	0	0	0
	3.	0	0	0	0	0
	4.	0	0	0	46	92
	5.	0	46	92	92	92

\* over front

1) Loaded boom angle (°)

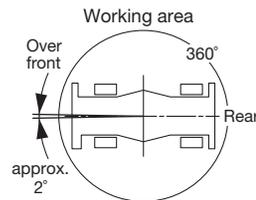
2) Minimum boom angle (°) for indicator length (no load)

### NOTE:

The lifting capacity data stowed in the LOAD MOMENT INDICATOR (AML-C) is based on the standard number of parts of line listed in the chart.

Standard number of parts of line for on-rubber operation should be according to the chart.

22,000 lb		360°				
 39.4'		52.7'	66.1'	79.4'	92.8'	
ft		1,000 lb				
15	63°	30,400	-	-	-	-
20	53°	20,500	64° 23,400	-	-	-
25	42°	10,200	58° 13,200	65° 14,700	-	-
30	28°	6,000	50° 8,800	60° 10,200	66° 11,400	71° 11,700
35	-	-	42° 5,700	55° 7,100	62° 8,300	67° 8,500
40	-	-	32° 3,500	49° 4,900	58° 6,100	64° 6,300
45	-	-	17° 1,900	43° 3,200	53° 4,400	60° 4,600
50	-	-	-	35° 1,900	48° 3,000	56° 3,200
55	-	-	-	-	43° 2,000	52° 2,200
60	-	-	-	-	-	-
65	-	-	-	-	-	-
70	-	-	-	-	-	-
75	-	-	-	-	-	-
80	-	-	-	-	-	-
85	-	-	-	-	-	-
		4	4	4	4	4
2)	0°	0°	27°	37°	48°	
<b>Telescopic conditions (%)</b>						
	1.	0	0	0	0	0
	2.	0	0	0	0	0
	3.	0	0	0	0	0
	4.	0	0	0	46	92
	5.	0	46	92	92	92



# Operation

## On rubber creep

22,000 lb		0°*				
ft	1)	1)	1)	1)	1)	1)
15	62° 37,600	-	-	-	-	-
20	53° 27,400	64° 29,500	-	-	-	-
25	42° 20,600	57° 22,700	65° 24,000	-	-	-
30	27° 15,700	50° 17,900	60° 19,200	66° 20,300	70° 20,300	-
35	-	42° 14,200	54° 15,500	62° 16,600	67° 16,700	-
40	-	32° 11,300	49° 12,600	57° 13,700	63° 13,900	-
45	-	16° 9,000	42° 10,300	53° 11,400	60° 11,600	-
50	-	-	34° 8,400	48° 9,500	56° 9,700	-
55	-	-	25° 6,900	42° 8,000	52° 8,100	-
60	-	-	-	36° 6,700	48° 6,800	-
65	-	-	-	29° 5,500	43° 5,700	-
70	-	-	-	19° 4,600	38° 4,700	-
75	-	-	-	-	32° 3,900	-
80	-	-	-	-	25° 3,100	-
85	-	-	-	-	13° 2,500	-

1,000 lb		0°*				
ft	1)	1)	1)	1)	1)	1)
4	0°	0°	0°	0°	0°	0°

### Telescopic conditions (%)

1.	0	0	0	0	0
2.	0	0	0	0	0
3.	0	0	0	0	0
4.	0	0	0	46	92
5.	0	46	92	92	92

\* over front

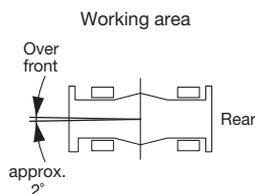
1) Loaded boom angle (°)

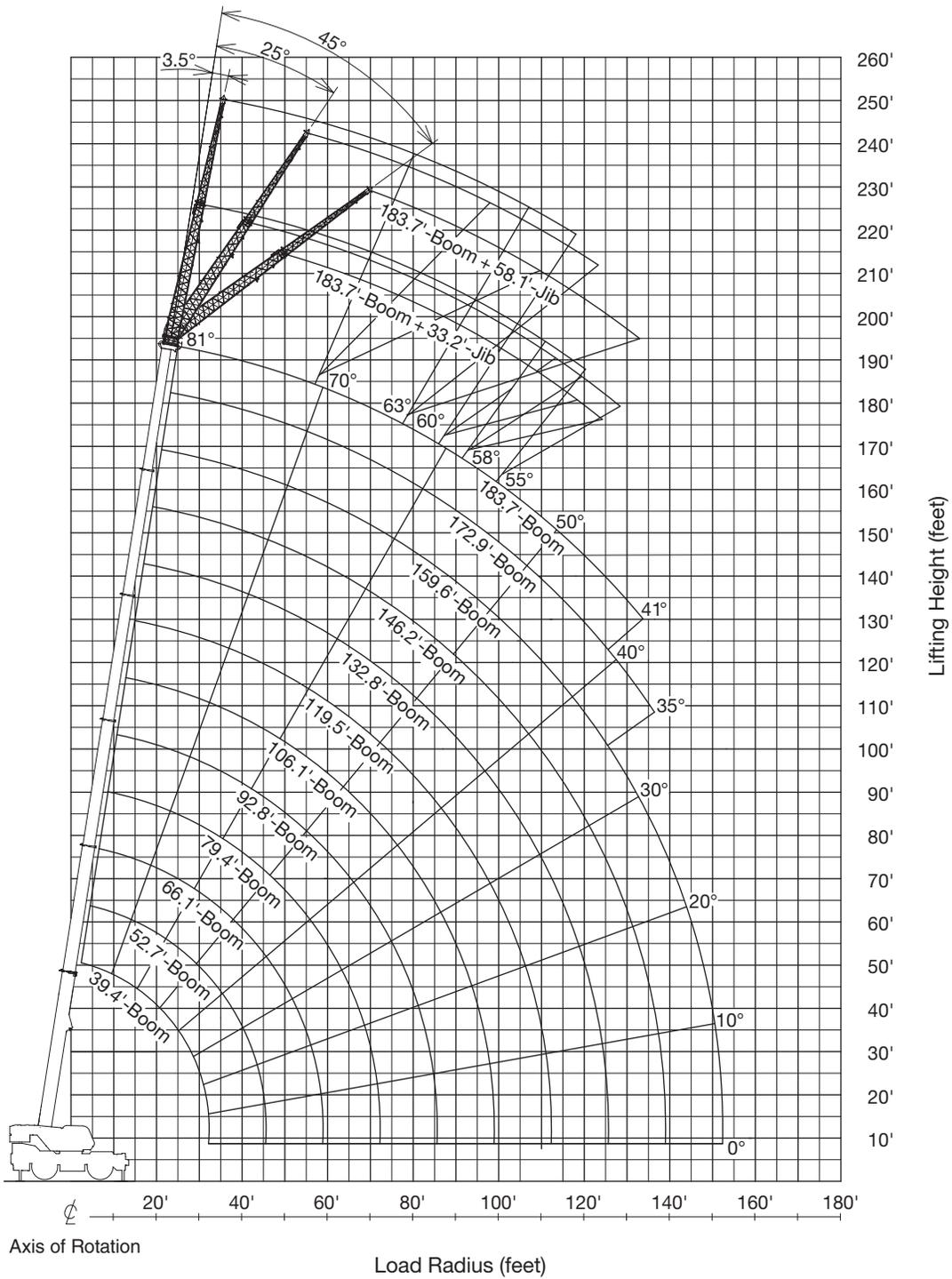
2) Minimum boom angle (°) for indicator length (no load)

### NOTE:

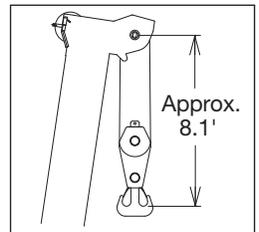
The lifting capacity data stowed in the LOAD MOMENT INDICATOR (AML-C) is based on the standard number of parts of line listed in the chart.

Standard number of parts of line for on-rubber operation should be according to the chart.

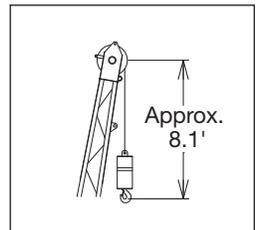




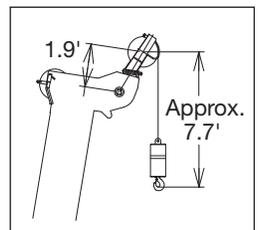
### BOOM



### JIB



### SINGLE TOP



**NOTE:**  
 Boom and jib geometry shown are for unloaded condition and machine standing level on firm supporting surface.  
 Boom deflection and subsequent radius and boom angle change must be accounted for when applying load to hook.

# Operation

Fully extended – 360°

22,000 lb							23' 11-3/8" spread							33.2'							360°						
							183.7'														172.9'						
							3.5° 3.5° 25° 25° 45° 45°														3.5° 3.5° 25° 25° 45° 45°						
							1)														1)						
							2)														2)						
							1,000 lb														1,000 lb						
81°	45.7'	9,900	57.0'	8,600	67.2'	7,900	81°	43.7'	11,000	55.0'	9,500	63.5'	8,400														
80°	50.2'	9,900	60.8'	8,400	70.8'	7,700	80°	47.4'	11,000	58.2'	9,300	66.8'	8,400														
79°	54.6'	9,700	64.8'	8,200	74.5'	7,500	79°	51.2'	10,800	61.8'	9,000	70.1'	8,200														
78°	59.0'	9,500	68.5'	7,900	78.0'	7,300	78°	55.3'	10,600	65.4'	8,800	73.4'	7,900														
77°	62.6'	9,000	72.5'	7,700	82.0'	7,100	77°	57.7'	10,100	68.9'	8,600	77.0'	7,700														
76°	66.8'	8,800	76.6'	7,700	85.0'	7,100	76°	62.6'	9,900	72.4'	8,400	80.0'	7,500														
75°	71.2'	8,600	80.4'	7,500	89.0'	6,800	75°	66.2'	9,700	75.9'	8,200	83.0'	7,500														
73°	79.0'	8,200	88.0'	7,100	96.0'	6,600	73°	73.3'	9,000	83.0'	7,700	90.0'	7,300														
70°	91.0'	7,500	99.0'	6,600	106.0'	6,400	70°	84.1'	8,400	93.0'	7,300	100.0'	6,800														
68°	99.0'	7,100	106.0'	6,400	113.0'	6,200	68°	91.0'	7,900	100.0'	7,100	106.0'	6,600														
65°	108.0'	5,500	115.0'	5,100	122.0'	5,100	65°	101.0'	7,100	110.0'	6,400	115.0'	6,200														
63°	113.0'	4,400	121.0'	4,200	127.0'	4,200	63°	107.0'	6,000	116.0'	5,300	120.0'	5,300														
60°	122.0'	3,300	129.0'	3,300	135.0'	3,300	60°	116.0'	4,600	123.0'	4,200	127.0'	4,200														
58°	127.0'	2,600	134.0'	2,600	140.0'	2,600	58°	121.0'	3,700	130.0'	3,500	132.0'	3,500														
55°	135.0'	1,800	142.0'	1,800	-	-	55°	129.0'	2,900	135.0'	2,600	139.0'	2,600														
53°	-	-	-	-	-	-	53°	134.0'	2,200	140.0'	2,200	143.0'	2,200														
50°	-	-	-	-	-	-	50°	141.0'	1,500	147.0'	1,500	-	-														

159.6'							106.1'						
3.5° 3.5° 25° 25° 45° 45°							3.5° 3.5° 25° 25° 45° 45°						
1)							1)						
2)							2)						
1,000 lb							1,000 lb						
81°	39.9'	13,200	51.3'	11,500	59.7'	9,900	81°	22.7'	14,600	36.6'	14,600	43.0'	10,800
80°	43.3'	13,200	54.3'	11,000	62.6'	9,700	80°	25.4'	14,600	39.0'	14,100	45.5'	10,600
79°	47.4'	13,200	57.6'	10,800	65.9'	9,700	79°	27.9'	14,600	41.6'	13,900	47.9'	10,600
78°	51.0'	13,000	60.9'	10,600	69.0'	9,500	78°	30.6'	14,600	44.2'	13,400	50.1'	10,400
77°	54.3'	12,600	64.2'	10,400	72.0'	9,300	77°	33.3'	14,600	46.7'	13,200	52.2'	10,100
76°	57.6'	12,100	67.5'	10,100	75.0'	9,000	76°	35.8'	14,600	49.2'	12,800	54.4'	10,100
75°	61.0'	11,900	70.7'	9,900	79.0'	9,000	75°	38.4'	14,600	51.5'	12,600	56.5'	9,900
73°	67.5'	11,000	77.5'	9,500	84.0'	8,600	73°	43.5'	14,600	56.0'	12,100	60.6'	9,900
70°	77.6'	10,100	87.0'	9,000	94.0'	8,400	70°	51.0'	14,600	62.9'	11,700	66.7'	9,700
68°	84.2'	9,700	93.0'	8,600	100.0'	8,200	68°	55.8'	14,600	67.2'	11,200	70.6'	9,500
65°	93.0'	8,200	102.0'	7,300	107.0'	7,100	65°	62.5'	14,600	73.5'	10,800	76.2'	9,300
63°	99.0'	7,100	107.0'	6,400	112.0'	6,200	63°	67.0'	14,600	77.5'	10,600	80.2'	9,300
60°	107.0'	5,500	115.0'	5,100	118.0'	4,900	60°	73.3'	13,700	83.0'	10,400	85.4'	9,300
58°	113.0'	4,600	119.0'	4,400	123.0'	4,200	58°	77.5'	13,200	87.0'	10,400	88.8'	9,300
55°	120.0'	3,500	126.0'	3,300	129.0'	3,300	55°	83.4'	12,600	93.0'	10,100	93.8'	9,000
53°	124.0'	3,100	131.0'	2,900	134.0'	2,900	53°	86.9'	11,500	96.0'	9,900	96.9'	9,000
50°	131.0'	2,200	137.0'	2,200	140.0'	2,200	50°	92.2'	9,900	101.0'	9,000	101.0'	8,800
48°	136.0'	1,800	141.0'	1,800	144.0'	1,800	48°	95.6'	9,000	104.0'	8,400	104.0'	8,200
45°	142.0'	1,300	-	-	-	-	45°	100.0'	8,200	108.0'	7,500	108.0'	7,300
43°	-	-	-	-	-	-	43°	104.0'	7,500	110.0'	7,100	-	-
40°	-	-	-	-	-	-	40°	108.0'	6,600	114.0'	6,400	-	-
38°	-	-	-	-	-	-	38°	111.0'	6,200	116.0'	6,000	-	-
35°	-	-	-	-	-	-	35°	115.0'	5,700	120.0'	5,500	-	-
33°	-	-	-	-	-	-	33°	117.0'	5,300	122.0'	5,100	-	-
30°	-	-	-	-	-	-	30°	121.0'	4,900	124.0'	4,600	-	-
25°	-	-	-	-	-	-	25°	125.0'	4,200	128.0'	4,200	-	-
20°	-	-	-	-	-	-	20°	129.0'	3,700	-	-	-	-
15°	-	-	-	-	-	-	15°	132.0'	3,500	-	-	-	-
10°	-	-	-	-	-	-	10°	134.0'	3,300	-	-	-	-

1) Loaded boom angle (°)

2) Rated lifting capacity in pounds

# Operation

## Fully extended – 360°

22,000 lb							23' 11-3/8" spread							58.1'							360°						
							183.7'														172.9'						
							3.5° 3.5° 25° 25° 45° 45°														3.5° 3.5° 25° 25° 45° 45°						
							1,000 lb														1,000 lb						
81°	53.1'	6,400	75.3'	6,000	89.8'	5,100	81°	50.0'	6,800	69.8'	6,200	86.1'	5,100														
80°	58.1'	6,400	79.8'	5,700	93.7'	4,900	80°	54.0'	6,800	75.0'	6,200	89.7'	5,100														
79°	63.4'	6,400	84.0'	5,500	98.0'	4,900	79°	59.0'	6,800	78.9'	6,000	93.3'	5,100														
78°	68.2'	6,400	88.8'	5,500	102.0'	4,900	78°	63.5'	6,800	82.6'	5,700	96.9'	4,900														
77°	73.6'	6,400	93.0'	5,300	106.0'	4,600	77°	68.1'	6,800	86.8'	5,700	101.0'	4,900														
76°	78.8'	6,400	97.3'	5,300	110.0'	4,600	76°	72.6'	6,800	90.9'	5,500	104.0'	4,900														
75°	83.3'	6,200	101.4'	5,100	114.0'	4,600	75°	77.2'	6,800	94.9'	5,500	107.0'	4,600														
73°	93.0'	6,000	110.0'	4,900	121.0'	4,400	73°	85.9'	6,600	103.0'	5,300	114.0'	4,600														
70°	106.4'	5,500	122.0'	4,600	131.0'	4,200	70°	98.9'	6,200	114.0'	5,100	124.0'	4,400														
68°	114.0'	4,900	129.0'	4,200	138.0'	4,000	68°	107.0'	5,700	122.0'	4,900	131.0'	4,400														
65°	123.0'	3,500	138.0'	3,100	146.0'	2,900	65°	118.0'	4,900	132.0'	4,200	140.0'	3,700														
63°	129.0'	2,600	144.0'	2,400	152.0'	2,400	63°	124.0'	4,000	137.0'	3,300	145.0'	3,300														
60°	138.0'	1,800	-	-	-	-	60°	132.0'	2,900	145.0'	2,400	152.0'	2,400														
58°	-	-	-	-	-	-	58°	138.0'	2,200	150.0'	2,000	157.0'	2,000														
55°	-	-	-	-	-	-	55°	146.0'	1,500	-	-	-	-														

159.6'						
3.5° 3.5° 25° 25° 45° 45°						
1,000 lb						
81°	46.3'	7,700	66.3'	6,600	80.7'	5,300
80°	50.1'	7,700	70.2'	6,600	83.8'	5,100
79°	54.7'	7,700	73.9'	6,400	87.6'	5,100
78°	58.9'	7,700	77.5'	6,200	90.9'	5,100
77°	63.1'	7,700	81.3'	6,200	94.0'	4,900
76°	67.2'	7,700	84.8'	6,000	97.3'	4,900
75°	71.8'	7,700	88.9'	6,000	101.0'	4,900
73°	80.0'	7,700	96.1'	5,700	107.0'	4,900
70°	91.7'	7,300	106.0'	5,300	117.0'	4,600
68°	99.8'	7,100	114.0'	5,100	123.0'	4,600
65°	110.0'	6,000	124.0'	5,100	132.0'	4,400
63°	116.0'	5,100	130.0'	4,400	137.0'	4,000
60°	124.0'	3,700	137.0'	3,300	143.0'	3,100
58°	129.0'	3,100	142.0'	2,900	148.0'	2,600
55°	137.0'	2,200	149.0'	2,000	154.0'	2,000
53°	142.0'	1,800	154.0'	1,500	-	-
50°	-	-	-	-	-	-
48°	-	-	-	-	-	-
45°	-	-	-	-	-	-
43°	-	-	-	-	-	-
40°	-	-	-	-	-	-
38°	-	-	-	-	-	-
35°	-	-	-	-	-	-
33°	-	-	-	-	-	-
30°	-	-	-	-	-	-
25°	-	-	-	-	-	-
20°	-	-	-	-	-	-
15°	-	-	-	-	-	-
10°	-	-	-	-	-	-

106.1'						
3.5° 3.5° 25° 25° 45° 45°						
1,000 lb						
81°	30.1'	9,900	51.8'	7,300	64.7'	5,300
80°	33.3'	9,900	54.7'	7,100	67.2'	5,100
79°	36.5'	9,900	57.4'	6,800	69.6'	5,100
78°	39.7'	9,900	60.0'	6,600	72.0'	5,100
77°	42.8'	9,900	62.8'	6,600	74.4'	4,900
76°	46.0'	9,900	65.5'	6,400	76.6'	4,900
75°	48.8'	9,900	68.2'	6,400	79.0'	4,900
73°	54.7'	9,900	73.6'	6,200	83.6'	4,900
70°	63.0'	9,000	80.8'	5,700	89.9'	4,600
68°	68.1'	8,400	85.9'	5,500	94.3'	4,600
65°	76.1'	7,900	92.8'	5,300	100.0'	4,400
63°	80.9'	7,500	97.6'	5,300	104.0'	4,400
60°	88.5'	7,100	104.0'	5,100	110.0'	4,400
58°	93.4'	7,100	108.0'	5,100	113.0'	4,400
55°	100.0'	6,600	114.0'	4,900	118.0'	4,400
53°	105.0'	6,400	118.0'	4,900	121.0'	4,200
50°	111.0'	6,200	124.0'	4,600	126.0'	4,200
48°	115.0'	6,000	127.0'	4,600	128.0'	4,200
45°	121.0'	5,700	132.0'	4,600	132.0'	4,200
43°	125.0'	5,300	135.0'	4,600	-	-
40°	130.0'	4,900	139.0'	4,400	-	-
38°	133.0'	4,400	141.0'	4,000	-	-
35°	137.0'	4,000	144.0'	3,700	-	-
33°	140.0'	3,700	146.0'	3,500	-	-
30°	144.0'	3,300	149.0'	3,100	-	-
25°	149.0'	2,900	152.0'	2,600	-	-
20°	154.0'	2,600	-	-	-	-
15°	157.0'	2,200	-	-	-	-
10°	159.0'	2,200	-	-	-	-

- 1) Loaded boom angle (°)
- 2) Rated lifting capacity in pounds

