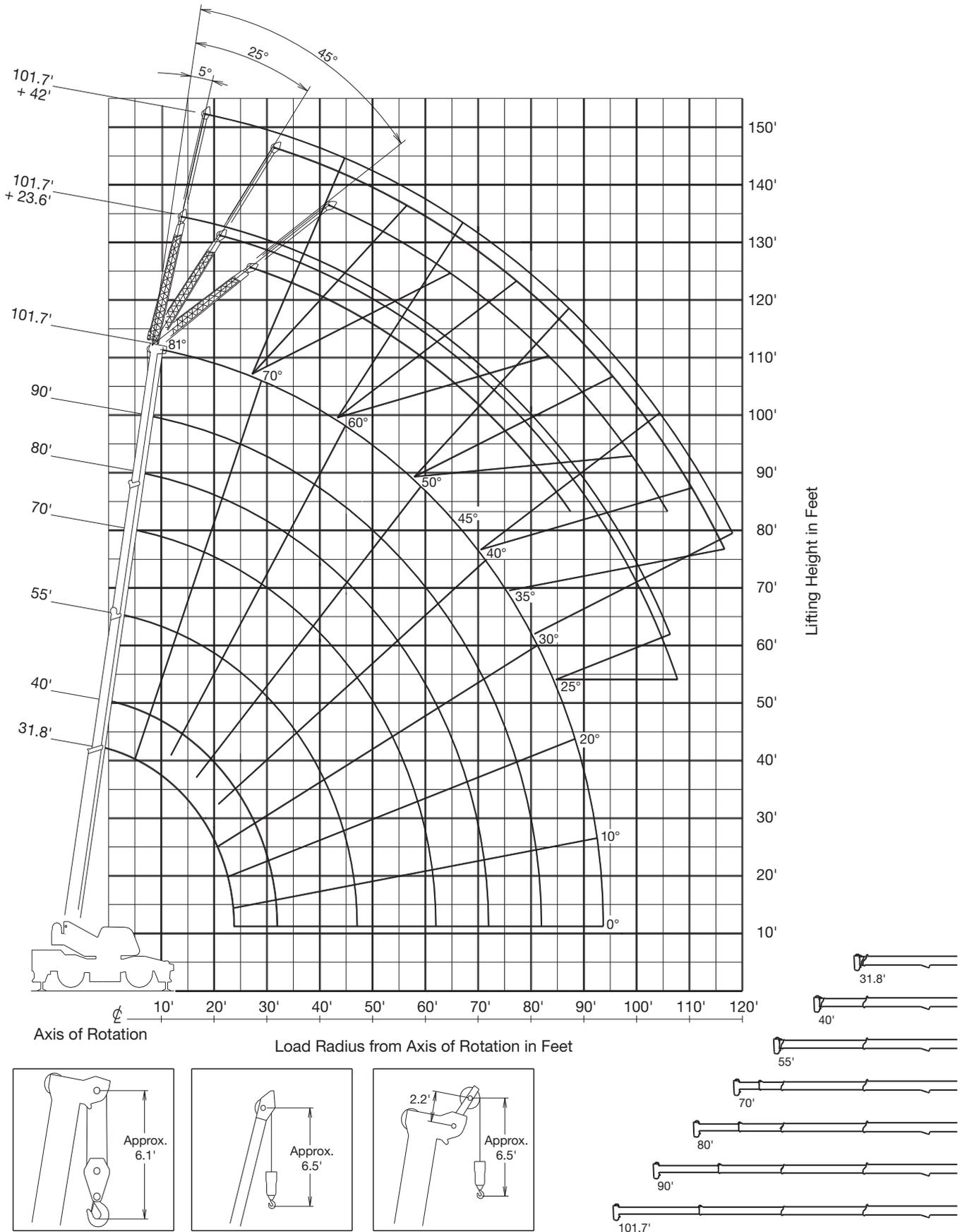


Operation



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°

5,300 lb		20' 8" x 20' 11"								360°					
	31.8' ¹⁾	31.8'	40' ¹⁾	40'	55' ¹⁾	55'	70' ¹⁾	70'	80' ¹⁾	80'	90' ¹⁾	90'	101.7' ¹⁾	101.7'	
ft	1,000 lb													ft	
8	65° 70,000	-	-	-	-	-	-	-	-	-	-	-	-	-	8
10	60° 60,000	67° 49,600	74° 42,300	78° 27,500	-	-	-	-	-	-	-	-	-	-	10
12	56° 56,500	64° 49,600	72° 42,300	76° 27,500	78° 27,500	-	-	-	-	-	-	-	-	-	12
15	49° 46,500	59° 46,000	69° 40,000	74° 27,500	76° 27,500	78° 25,300	-	-	-	-	-	-	-	-	15
20	34° 36,000	50° 35,500	63° 32,000	69° 27,500	72° 27,200	75° 23,500	77° 18,500	-	-	-	-	-	-	-	20
25	-	38° 28,500	57° 25,900	65° 24,200	69° 22,700	72° 20,400	75° 18,100	-	-	-	-	-	-	-	25
30	-	22° 20,500	50° 20,100	60° 20,100	65° 19,400	68° 17,800	72° 16,300	-	-	-	-	-	-	-	30
35	-	-	42° 15,800	55° 16,700	60° 16,000	65° 15,300	68° 14,400	-	-	-	-	-	-	-	35
40	-	-	33° 12,200	50° 13,100	56° 13,250	61° 13,050	65° 12,600	-	-	-	-	-	-	-	40
45	-	-	19° 9,250	44° 10,300	51° 10,600	57° 11,000	62° 11,000	-	-	-	-	-	-	-	45
50	-	-	-	37° 8,400	46° 8,700	53° 8,900	59° 9,300	-	-	-	-	-	-	-	50
55	-	-	-	29° 6,650	41° 7,100	49° 7,300	55° 7,800	-	-	-	-	-	-	-	55
60	-	-	-	16° 5,400	34° 5,900	44° 6,200	51° 6,450	-	-	-	-	-	-	-	60
65	-	-	-	-	27° 4,800	39° 5,100	47° 5,300	-	-	-	-	-	-	-	65
70	-	-	-	-	15° 3,700	33° 4,300	43° 4,400	-	-	-	-	-	-	-	70
75	-	-	-	-	-	25° 3,650	38° 3,800	-	-	-	-	-	-	-	75
80	-	-	-	-	-	15° 3,000	33° 3,200	-	-	-	-	-	-	-	80
85	-	-	-	-	-	-	27° 2,600	-	-	-	-	-	-	-	85
90	-	-	-	-	-	-	18° 2,200	-	-	-	-	-	-	-	90
²⁾	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	²⁾	
	31.8'	40'	55'	70'	80'	90'	101.7'								
	23.7'	31.9'	46.9'	61.9'	71.9'	81.9'	93.6'								
¹⁾ 0°	30,400 lb	18,700 lb	8,600 lb	5,000 lb	3,400 lb	2,800 lb	1,900 lb	¹⁾ 0°							

1) Loaded boom angle (°)

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

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. Standard number of parts of line for each boom length should be according to the following table.

	31.8'	31.8' to 55'	55' to 101.7'	Single top jib
	8	6	4	1

Operation

Mid extended – 360°

5,300 lb		19' 4-1/4" x 20' 11"										360°							
				31.8' ¹⁾	31.8'	40' ¹⁾	40'	55' ¹⁾	55'	70' ¹⁾	70'	80' ¹⁾	80'	90' ¹⁾	90'	101.7' ¹⁾	101.7'		
ft	1,000 lb																ft		
8	65°	70,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
10	60°	60,000	67°	49,600	74°	42,300	78°	27,500	-	-	-	-	-	-	-	-	-	-	10
12	56°	56,500	64°	49,600	72°	42,300	76°	27,500	78°	27,500	-	-	-	-	-	-	-	-	12
15	49°	46,500	59°	46,000	69°	40,000	74°	27,500	76°	27,500	78°	25,300	-	-	-	-	-	-	15
20	34°	34,700	50°	35,500	63°	32,000	69°	27,500	72°	27,200	75°	23,500	77°	18,500	-	-	-	-	20
25	-	-	38°	24,000	57°	23,700	65°	24,200	69°	22,700	72°	20,400	75°	18,100	-	-	-	-	25
30	-	-	22°	16,700	50°	16,500	60°	17,900	65°	18,300	68°	17,300	72°	16,300	-	-	-	-	30
35	-	-	-	-	42°	12,250	55°	13,400	60°	13,850	65°	14,150	68°	13,250	-	-	-	-	35
40	-	-	-	-	33°	9,050	49°	10,300	56°	10,700	61°	11,200	65°	11,200	-	-	-	-	40
45	-	-	-	-	19°	6,750	43°	8,000	51°	8,350	57°	8,800	62°	9,100	-	-	-	-	45
50	-	-	-	-	-	-	37°	6,300	46°	6,700	53°	7,050	58°	7,300	-	-	-	-	50
55	-	-	-	-	-	-	29°	4,850	41°	5,300	48°	5,700	55°	6,000	-	-	-	-	55
60	-	-	-	-	-	-	16°	3,800	34°	4,200	44°	4,600	51°	4,800	-	-	-	-	60
65	-	-	-	-	-	-	-	-	27°	3,300	38°	3,700	47°	4,000	-	-	-	-	65
70	-	-	-	-	-	-	-	-	15°	2,600	33°	2,900	43°	3,200	-	-	-	-	70
75	-	-	-	-	-	-	-	-	-	-	25°	2,300	38°	2,600	-	-	-	-	75
80	-	-	-	-	-	-	-	-	-	-	15°	1,700	33°	2,000	-	-	-	-	80
85	-	-	-	-	-	-	-	-	-	-	-	-	26°	1,400	-	-	-	-	85
90	-	-	-	-	-	-	-	-	-	-	-	-	18°	800	-	-	-	-	90
	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°		
	31.8'	40'	55'	70'	80'	90'	101.7'												
	23.7'	31.9'	46.9'	61.9'	71.9'	81.9'	93.6'												
	26,500 lb	15,000 lb	6,000 lb	3,400 lb	2,300 lb	1,450 lb	500 lb												

1) Loaded boom angle (°)

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

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. Standard number of parts of line for each boom length should be according to the following table.

	31.8'	31.8' to 55'	55' to 101.7'	Single top jib
	8	6	4	1

Operation

Mid extended – 360°

5,300 lb		16' 4-7/8" x 20' 11"										360°			
ft	31.8' ¹⁾	31.8'	40' ¹⁾	40'	55' ¹⁾	55'	70' ¹⁾	70'	80' ¹⁾	80'	90' ¹⁾	90'	101.7' ¹⁾	101.7'	ft
	1,000 lb														
8	65°	70,000	-	-	-	-	-	-	-	-	-	-	-	-	8
10	60°	60,000	67°	49,600	74°	42,300	78°	27,500	-	-	-	-	-	-	10
12	56°	56,500	64°	49,600	72°	42,300	76°	27,500	78°	27,500	-	-	-	-	12
15	49°	46,500	59°	46,000	69°	40,000	74°	27,500	76°	27,500	78°	25,300	-	-	15
20	34°	28,300	50°	27,600	63°	27,000	69°	27,500	73°	27,200	75°	23,500	77°	18,500	20
25	-	-	38°	18,300	56°	17,800	65°	19,200	69°	19,600	72°	19,900	75°	18,100	25
30	-	-	22°	12,700	50°	12,700	60°	13,800	64°	14,200	68°	14,750	72°	15,000	30
35	-	-	-	-	42°	9,000	55°	10,000	60°	10,500	64°	11,000	68°	11,300	35
40	-	-	-	-	32°	6,500	49°	7,500	56°	8,000	61°	8,400	65°	8,700	40
45	-	-	-	-	19°	4,700	43°	5,700	51°	6,200	57°	6,500	62°	6,800	45
50	-	-	-	-	-	-	37°	4,300	46°	4,700	53°	5,100	58°	5,400	50
55	-	-	-	-	-	-	28°	3,200	40°	3,600	48°	4,000	55°	4,300	55
60	-	-	-	-	-	-	16°	2,300	34°	2,700	43°	3,100	51°	3,400	60
65	-	-	-	-	-	-	-	-	26°	2,000	38°	2,400	47°	2,600	65
70	-	-	-	-	-	-	-	-	15°	1,300	32°	1,700	42°	2,000	70
75	-	-	-	-	-	-	-	-	-	-	25°	1,200	38°	1,400	75
80	-	-	-	-	-	-	-	-	-	-	-	-	32°	1,000	80
	0°		0°		0°		0°		0°		0°		20°		
	31.8'		40'		55'		70'		80'		90'				
	23.7'		31.9'		46.9'		61.9'		71.9'		81.9'				
	20,700 lb		11,300 lb		4,100 lb		2,100 lb		1,100 lb		500 lb				

1) Loaded boom angle (°)

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

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. Standard number of parts of line for each boom length should be according to the following table.

	31.8'	31.8' to 55'	55' to 101.7'	Single top jib
	8	6	4	1

Operation

MB

Min extended – 360°

5,300 lb		7' 2-5/8" x 20' 11"										360°					
		31.8' ¹⁾	31.8'	40' ¹⁾	40'	55' ¹⁾	55'	70' ¹⁾	70'	80' ¹⁾	80'	90' ¹⁾	90'	101.7' ¹⁾	101.7'		
ft	1,000 lb														ft		
8	65°	44,400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
10	60°	28,600	67°	27,500	74°	27,900	78°	27,500	-	-	-	-	-	-	-	-	10
12	56°	20,900	64°	20,800	72°	20,300	76°	21,600	78°	22,700	-	-	-	-	-	-	12
15	49°	14,600	59°	14,100	68°	13,800	73°	15,000	76°	15,600	78°	16,500	-	-	-	-	15
20	33°	7,900	49°	8,200	62°	7,700	69°	8,900	72°	9,400	74°	10,000	77°	10,300	-	-	20
25	-	-	38°	4,900	56°	4,500	64°	5,600	68°	6,000	71°	6,500	74°	6,700	-	-	25
30	-	-	22°	2,600	49°	2,300	59°	3,400	64°	3,800	67°	4,200	70°	4,400	-	-	30
35	-	-	-	-	42°	1,000	54°	1,900	60°	2,300	64°	2,600	67°	2,900	-	-	35
40	-	-	-	-	-	-	-	-	55°	1,200	60°	1,500	64°	1,800	-	-	40
		0°	0°	36°	45°	51°	54°	58°									
		31.8'	40'														
		23.7'	31.9'														
		5,600 lb	2,000 lb														

1) Loaded boom angle (°)

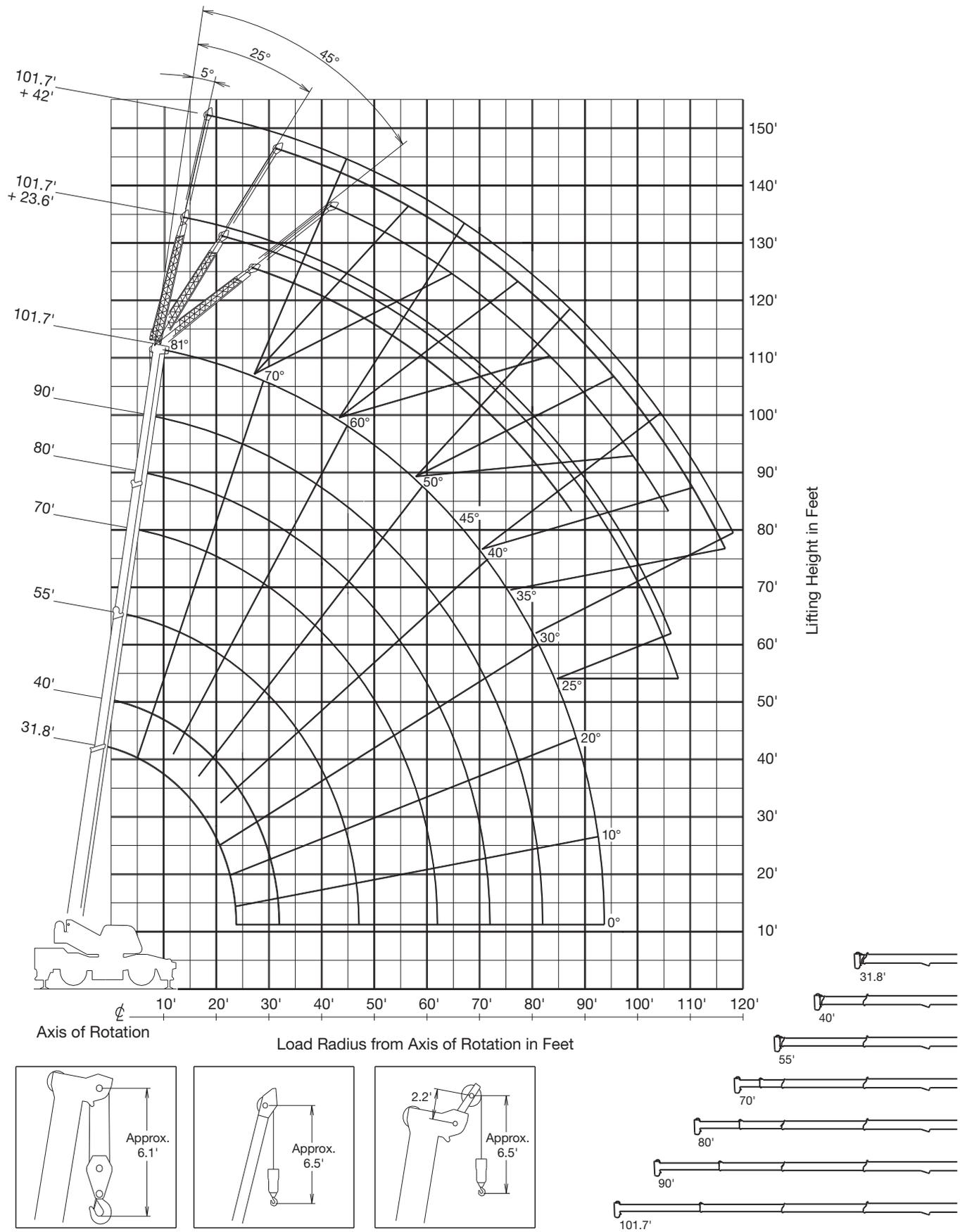
2) Minimum boom angle (°) for indicated length (no load)

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. Standard number of parts of line for each boom length should be according to the following table.

	31.8'	31.8' to 55'	55' to 101.7'	Single top jib
	8	6	4	1

Operation



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°

5,300 lb							20' 8" x 20' 11"							360°						
							101.7' + M 23.6'							101.7' + M 42.0'						
		5°		25°		45°				5°		25°		45°						
1)	2)	3)	2)	3)	2)	3)	1)	2)	3)	2)	3)	2)	3)	2)	3)					
80°	19.3'	7,700	26.7'	5,200	32.1'	3,700	80°	25.6'	4,800	38.0'	2,600	47.8'	1,700							
77.5°	25.2'	7,700	32.0'	5,000	37.2'	3,600	77.5°	32.2'	4,800	44.3'	2,600	53.4'	1,700							
75°	30.8'	7,700	37.5'	4,800	42.4'	3,500	75°	38.8'	4,800	50.4'	2,600	58.6'	1,700							
72.5°	36.4'	7,350	42.7'	4,600	47.1'	3,400	72.5°	44.9'	4,400	56.1'	2,450	63.9'	1,700							
70°	41.8'	7,000	47.7'	4,400	52.1'	3,300	70°	50.9'	4,000	61.6'	2,300	68.9'	1,650							
67.5°	47.0'	6,600	52.9'	4,250	56.6'	3,200	67.5°	56.8'	3,700	67.1'	2,200	73.9'	1,600							
65°	52.0'	6,200	57.5'	4,100	61.0'	3,150	65°	62.3'	3,400	72.2'	2,050	78.5'	1,600							
62.5°	56.8'	5,700	62.4'	3,950	65.2'	3,100	62.5°	67.9'	3,150	77.4'	1,950	83.0'	1,550							
60°	61.4'	5,200	66.8'	3,800	69.5'	3,050	60°	73.1'	2,900	82.1'	1,850	87.3'	1,500							
57.5°	65.8'	4,700	71.2'	3,650	73.4'	3,000	57.5°	78.6'	2,750	86.7'	1,800	91.4'	1,450							
55°	70.3'	4,200	75.3'	3,500	77.4'	2,900	55°	83.5'	2,600	91.4'	1,750	95.4'	1,400							
52.5°	74.3'	3,700	79.2'	3,300	81.0'	2,800	52.5°	88.3'	2,450	95.9'	1,700	99.0'	1,400							
50°	78.4'	3,200	82.9'	3,100	84.5'	2,650	50°	93.0'	2,300	99.8'	1,600	102.0'	1,350							
47.5°	82.2'	2,900	86.2'	2,750	87.9'	2,500	47.5°	97.4'	2,100	104.0'	1,550	106.0'	1,350							
45°	85.8'	2,600	89.6'	2,400	90.9'	2,400	45°	102.0'	1,900	107.0'	1,500	110.0'	1,350							
42.5°	89.3'	2,300	92.8'	2,150	-	-	42.5°	105.0'	1,700	111.0'	1,400	-	-							
40°	92.6'	2,000	95.7'	1,900	-	-	40°	109.0'	1,500	114.0'	1,300	-	-							
37.5°	95.7'	1,750	98.6'	1,650	-	-	37.5°	113.0'	1,350	117.0'	1,150	-	-							
35°	98.6'	1,500	101.0'	1,400	-	-	35°	116.0'	1,200	120.0'	1,000	-	-							
32.5°	101.0'	1,350	104.0'	1,250	-	-	32.5°	119.0'	1,050	-	-	-	-							
30°	104.0'	1,200	106.0'	1,100	-	-	30°	122.0'	900	-	-	-	-							
27.5°	106.0'	1,050	108.0'	1,000	-	-	27.5°	-	-	-	-	-	-							
25°	108.0'	900	110.0'	900	-	-	25°	-	-	-	-	-	-							

- 1) Loaded boom angle (°)
- 2) Load radius in feet
- 3) Rated lifting capacity in pounds

Operation

Mid extended – 360°

5,300 lb		19' 4-1/4" x 20' 11"						360°					
		101.7' + M 23.6'						101.7' + M 42.0'					
		5°		25°		45°		5°		25°		45°	
1)	2)	3)	2)	3)	2)	3)	1)	2)	3)	2)	3)	2)	3)
80°	19,3'	7.700	26,7'	5.200	32,1'	3.700	80°	25,6'	4.800	38,0'	2.600	47,8'	1.700
77,5°	25,2'	7.700	32,0'	5.000	37,2'	3.600	77,5°	32,2'	4.800	44,3'	2.600	53,4'	1.700
75°	30,8'	7.700	37,5'	4.800	42,4'	3.500	75°	38,8'	4.800	50,4'	2.600	58,6'	1.700
72,5°	36,4'	7.350	42,7'	4.600	47,1'	3.400	72,5°	44,9'	4.400	56,1'	2.450	63,9'	1.700
70°	41,8'	7.000	47,7'	4.400	52,1'	3.300	70°	50,9'	4.000	61,6'	2.300	68,9'	1.650
67,5°	47,1'	6.600	52,9'	4.250	56,6'	3.200	67,5°	56,8'	3.700	67,1'	2.200	73,9'	1.600
65°	52,1'	6.200	57,5'	4.100	61,0'	3.150	65°	62,3'	3.400	72,2'	2.050	78,5'	1.600
62,5°	56,7'	5.700	62,3'	3.950	65,4'	3.100	62,5°	67,9'	3.150	77,4'	1.950	83,0'	1.550
60°	61,1'	5.200	66,6'	3.800	69,5'	3.050	60°	73,1'	2.900	82,1'	1.850	87,3'	1.500
57,5°	65,6'	4.350	70,7'	3.500	73,5'	2.950	57,5°	78,2'	2.700	86,9'	1.800	91,4'	1.450
55°	69,9'	3.500	74,8'	3.200	77,2'	2.850	55°	82,9'	2.500	91,2'	1.750	95,4'	1.400
52,5°	74,0'	2.950	78,6'	2.750	80,9'	2.550	52,5°	87,7'	2.150	95,7'	1.650	99,0'	1.350
50°	78,0'	2.400	82,4'	2.300	84,2'	2.200	50°	92,1'	1.850	99,8'	1.500	103,0'	1.300
47,5°	81,8'	2.050	86,0'	1.950	87,6'	1.900	47,5°	96,5'	1.550	104,0'	1.350	106,0'	1.200
45°	85,3'	1.750	89,5'	1.650	90,7'	1.650	45°	101,0'	1.300	107,0'	1.200	109,0'	1.100
42,5°	88,9'	1.500	92,6'	1.350	-	-	42,5°	-	-	-	-	-	-
40°	92,2'	1.200	95,6'	1.100	-	-	40°	-	-	-	-	-	-

5,300 lb		16' 4-7/8" x 20' 11"						360°					
		101.7' + M 23.6'						101.7' + M 42.0'					
		5°		25°		45°		5°		25°		45°	
1)	2)	3)	2)	3)	2)	3)	1)	2)	3)	2)	3)	2)	3)
80°	19,3'	7.700	26,7'	5.200	32,1'	3.700	80°	25,6'	4.800	38,0'	2.600	47,8'	1.700
77,5°	25,2'	7.700	32,0'	5.000	37,2'	3.600	77,5°	32,2'	4.800	44,3'	2.600	53,4'	1.700
75°	30,8'	7.700	37,5'	4.800	42,4'	3.500	75°	38,8'	4.800	50,4'	2.600	58,6'	1.700
72,5°	36,4'	7.100	42,7'	4.600	47,1'	3.400	72,5°	44,9'	4.400	56,1'	2.450	63,9'	1.700
70°	41,5'	6.500	47,7'	4.400	52,1'	3.300	70°	50,9'	4.000	61,6'	2.300	68,9'	1.650
67,5°	46,7'	5.950	52,7'	4.350	56,6'	3.200	67,5°	56,8'	3.700	67,1'	2.200	73,9'	1.600
65°	51,5'	5.400	57,5'	4.100	61,0'	3.100	65°	62,3'	3.400	72,2'	2.050	78,5'	1.600
62,5°	56,1'	4.500	61,8'	3.650	65,2'	3.000	62,5°	67,5'	3.050	77,4'	1.950	83,0'	1.500
60°	60,5'	3.600	66,2'	3.200	69,3'	2.950	60°	72,7'	2.750	82,1'	1.850	87,1'	1.400
57,5°	64,8'	3.000	70,5'	2.700	73,1'	2.500	57,5°	77,6'	2.250	86,6'	1.600	91,3'	1.400
55°	69,2'	2.400	74,4'	2.200	76,9'	2.100	55°	82,4'	1.750	90,9'	1.400	95,0'	1.400
52,5°	73,4'	2.050	78,3'	1.750	80,3'	1.750	52,5°	86,8'	1.400	95,1'	1.200	99,1'	1.200
50°	77,2'	1.650	81,9'	1.400	83,8'	1.400	50°	91,2'	1.100	99,4'	1.000	102,4'	1.000
47,5°	81,4'	1.350	-	-	-	-	47,5°	-	-	-	-	-	-
45°	85,0'	1.000	-	-	-	-	45°	-	-	-	-	-	-

- 1) Loaded boom angle (°)
- 2) Load radius in feet
- 3) Rated lifting capacity in pounds

Notes to Lifting Capacity

GENERAL

1. RATED LIFTING CAPACITIES apply only to the machine as originally manufactured and normally equipped by TADANO LTD. Modifications to the machine or use of optional equipment other than that specified can result in a reduction of capacity.
2. Hydraulic cranes can be hazardous if improperly operated or maintained. Operation and maintenance of this machine must be in compliance with information in the **Operation and Maintenance Manual** supplied with the crane. If this manual is missing, order a replacement through the distributor.
3. The operator and other personnel associated with this machine shall fully acquaint themselves with the latest applicable ASME B30.5 safety standards for cranes as mentioned in OSHA CFR29 part 1926.

SET UP

1. Rated lifting capacities on the load chart are the maximum allowable crane capacities. They are based on the machine standing level on firm supporting surface under ideal job conditions. Depending on the nature of the supporting surface, it may be necessary to have structural supports under the outrigger floats or tires to spread the loads to a larger surface.
2. For outrigger operation, outriggers shall be properly extended with tires free of supporting surface before operating crane.

OPERATION

1. Rated lifting capacities have been tested to and meet minimum requirements of SAE J1063-Cantilevered Boom Crane Structures Method of Test.
2. Rated lifting capacities do not exceed 85 % of the tipping load on outriggers fully extended as determined by SAE J765-Crane Stability Test Code. Rated lifting capacities for partially extended outriggers are determined from the formula, rated lifting capacities = (tipping load - 0.1 x tip reaction) / 1.25.
3. Rated lifting capacities above bold lines in the chart are based on crane strength and those below, on its stability. They are based on actual load radius increased by boom deflection.
4. The weight of handling device such as hook blocks, slings, etc., must be considered as part of the load and must be deducted from the lifting capacities.
5. Rated lifting capacities are based on freely suspended loads and make no allowance for such factors as the effect of wind, sudden stopping of loads, supporting surface conditions, inflation of tires, operating speeds, side loads, etc. Side pull on the boom or jib is extremely dangerous.
6. Rated lifting capacities do not account for wind on lifted load or boom. We recommend against working under the condition that the load is out of control due to a strong wind. During boom lift, consider that the rated lifting capacity is reduced by 50% when the wind speed is 20 mph to 27 mph; reduced by 70% when the wind speed is 27 mph to 31 mph. If the wind speed is 31 mph or over, stop operation. During jib lift, stop operation if the wind speed is 20 mph or over.
7. Rated lifting capacities at load radius shall not be exceeded. Do not tip the crane to determine allowable loads.
8. Do not operate at boom lengths, radii, or boom angle, where no capacities are shown. Crane may overturn without any load on the hook.
9. When boom length is between values listed, refer to the rated lifting capacities of the next longer and next shorter booms for the same radius. The lesser of the two rated lifting capacities shall be used.
10. When making lifts at a load radius not shown, use the next longer radius to determine allowable capacity.
11. Load per line should not exceed 8,820 lb for main hoist and auxiliary hoist.
12. Check the actual number of parts of line with LOAD MOMENT INDICATOR (AML-C) before operation. Maximum lifting capacity is restricted by the number of parts of line of LOAD MOMENT INDICATOR (AML-C). Limited capacity is as determined from the formula, single line pull for main hoist 8,820 lb x number of parts of line.
13. The boom angle before loading should be greater to account for deflection. For rated lifting capacities, the loaded boom angle and the load radius is for reference only.
14. The 31.8' boom length capacities are based on boom fully retracted. If not fully retracted [less than 40' boom length], use the rated lifting capacities for the 40' boom length.
15. Extension or retraction of the boom with loads may be attempted within the limits of the RATED LIFTING CAPACITIES. The ability to telescope loads is limited by hydraulic pressure, boom angle, boom length, crane maintenance, etc.
16. For lifting capacity of single top, reduce the rated lifting capacities of relevant boom according to a weight reductions for auxiliary load handling equipment. Capacities of single top shall not exceed 8,820 lb including main hook.
17. When base jib or top jib or both jib removing, jib state switch select removed.
18. When erecting and stowing jib, be sure to retain it by hand or by other means to prevent its free movement.
19. Use "ANTI-TWO BLOCK" disable switch when erecting and stowing jib and when stowing hook block. While the switch is pushed, the hoist does not stop, even when overwind condition occurs.
20. For boom length with 23.6' jib, rated lifting capacities are determined by loaded boom angle only in the column headed „101.7' boom + 23.6' jib.“ For boom length with 42' jib, rated lifting capacities are determined by loaded boom angle only in the column headed „101.7' boom + 42' jib.“ For angles not shown, use the next lower loaded boom angle to determine allowable capacity.
21. When lifting a load by using jib (aux. hoist) and boom (main hoist) simultaneously, do the following:
 - Enter the operation status as jib operation, not as boom operation.
 - Before starting operation, make sure that mass of load is within rated lifting capacity for jib.

DEFINITIONS

1. Load radius: Horizontal distance from a projection of the axis of rotation to supporting surface before loading to the center of the vertical hoist line or tackle with load applied.
2. Loaded boom angle: The angle between the boom base section and the horizontal, after lifting the rated lifting capacity at the load radius.
3. Working area: Area measured in a circular arc about the centerline of rotation.
4. Freely suspended load: Load hanging free with no direct external force applied except by the hoist line.
5. Side load: Horizontal side force applied to the lifted load either on the ground or in the air.