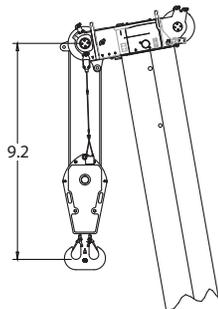
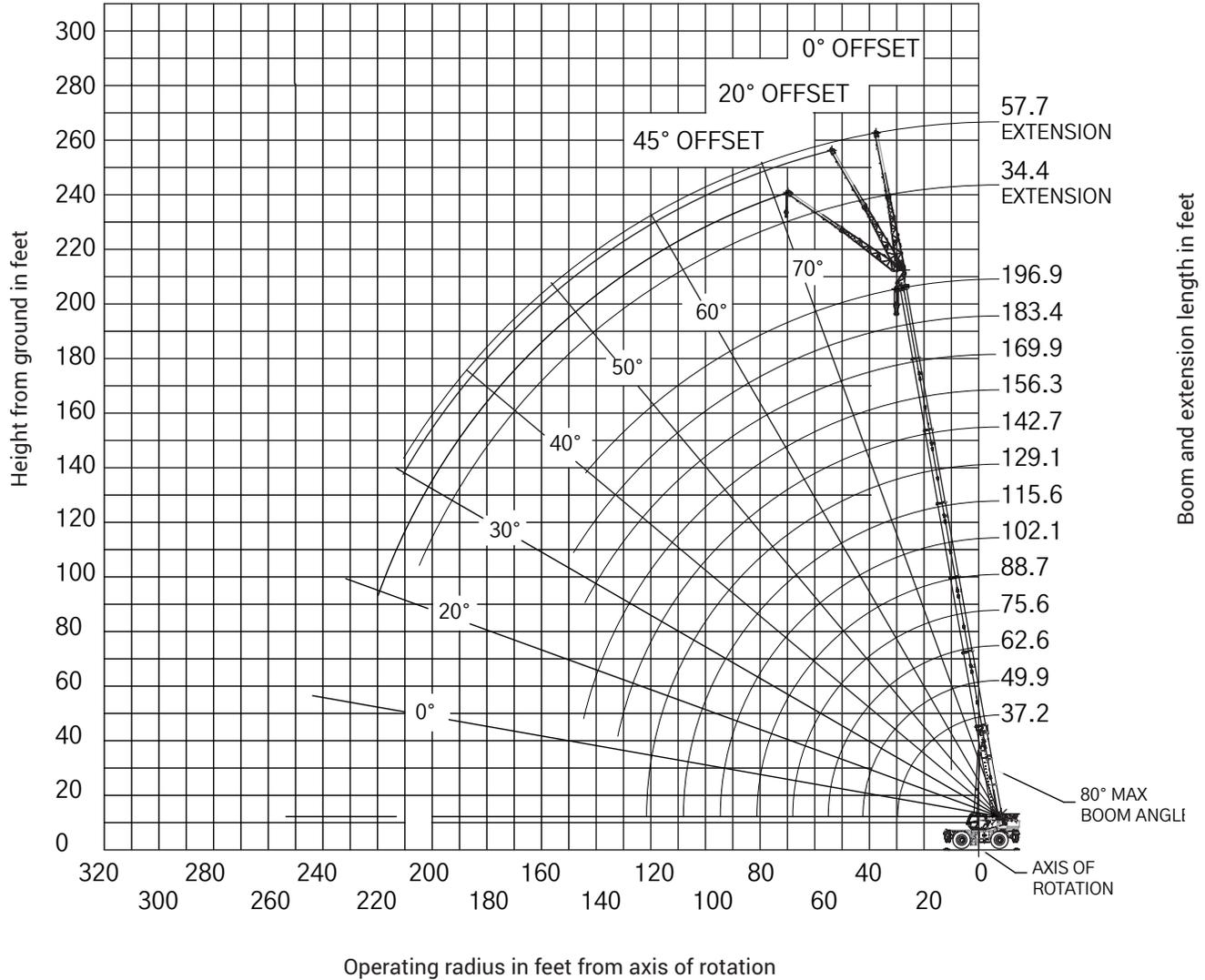


WORKING RANGE

Main Boom with Bi-fold Extension

(Boom deflection not shown)



Dimension shown is for the largest Grove furnished hookblock with anti-two block activated.

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LOAD CHART

Main Boom



37.2 ft - 197 ft



29,200 lb



100%



360°



Pounds

Radius in feet	Main boom length in feet																						
	37.2	50.3-50.8	62-64.4	75.7-77.9	87-91.3	98-104.4	109.3-117	125.6-139.1	147.9-154.1	156.3-165.6	179-184.1	194.7-196.9											
8	240,000*																						
10	176,500	177,500	160,000																				
12	158,000	159,000	145,000	125,000																			
15	134,000	135,000	129,500	114,000	97,700																		
20	101,000	103,000	102,000	95,700	85,750	80,250																	
25	79,950	82,150	81,450	81,400	75,600	69,250	65,350	53,500															
30		65,000	66,050	65,900	64,800	62,800	58,700	53,500	36,600														
35		53,300	53,550	53,450	55,000	54,850	52,950	48,950	36,600	29,700													
40		43,250	43,700	44,850	44,100	45,500	44,200	43,050	36,600	29,350	22,000												
45			36,750	36,750	37,200	37,350	36,100	35,000	35,550	29,350	22,000	17,900											
50			30,700	30,850	32,300	31,500	31,450	30,750	29,850	29,200	22,000	17,900											
55			26,150	27,850	27,600	26,850	27,650	26,500	25,200	24,900	21,800	17,900											
60				24,050	23,900	24,650	23,950	23,200	21,550	22,100	21,200	17,900											
65				20,950	20,850	21,700	20,900	20,200	19,400	19,600	19,750	17,900											
70				16,400	19,050	19,150	18,400	17,700	17,950	17,800	17,700	17,100											
75					17,250	17,150	16,450	15,750	16,350	16,250	15,850	15,100											
80					14,550	15,300	14,600	14,600	15,000	14,650	14,000	13,300											
85						13,650	13,050	13,600	13,600	13,050	12,450	11,750											
90						12,350	11,650	12,250	12,250	11,700	11,100	10,400											
95							9,640	10,450	11,050	11,050	10,650	9,920	9,210										
100								9,460	10,200	9,980	9,950	8,850	8,150										
105									8,660	9,250	9,030	9,000	7,910	7,200									
110										8,490	8,170	8,140	7,050	6,360									
115											8,030	7,400	7,370	6,290	5,590								
120												7,380	6,690	6,670	5,590	4,900							
125													6,200	6,030	6,010	4,950	4,260						
130														3,820	5,430	5,410	4,370	3,680					
135																4,880	4,860	3,840	3,150				
140																	4,380	4,360	3,350	2,670			
145																		3,930	3,900	2,880	2,210		
150																				2,990	2,450	1,800	
155																					2,600	2,050	1,400
160																						1,680	1,030
165																							1,340
170																							1,030

*Requires special equipment

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LOAD CHART

Main Boom - MAXbase 20° over outriggers



37.2 ft - 197 ft



29,200 lb



100%



MAXbase



Pounds

Radius in feet	Main boom length in feet											
	37.2	50.3-50.8	62-64.4	75.7-77.9	90-91.3	100.6-104.4	114.2-117	125.6-139.1	147.9-154.1	156.3-165.6	179-184.1	194.7-196.9
10	176,000	177,000	160,000									
12	157,500	158,500	145,000	125,500								
15	135,500	136,500	129,500	114,000	97,700							
20	105,000	105,500	105,000	95,700	85,750	80,250						
25	80,900	83,500	82,550	81,400	75,600	69,250	65,350	53,500				
30		65,450	66,400	66,100	64,900	62,800	58,700	53,500	36,600			
35		53,350	53,950	53,750	55,150	54,850	52,950	48,950	36,600	29,700		
40		44,550	44,800	45,250	46,150	47,400	46,250	43,850	36,600	29,150	22,000	
45			39,200	39,550	39,150	40,550	39,400	38,450	35,950	29,150	22,000	17,900
50			33,650	34,050	33,750	35,050	34,050	33,100	32,750	28,100	22,000	17,900
55			29,200	29,600	30,900	30,600	29,600	29,150	29,250	25,800	21,800	17,900
60				26,000	27,450	26,900	27,300	26,500	25,700	23,650	21,200	17,900
65				24,100	24,350	23,850	24,750	23,500	22,700	21,600	21,200	17,900
70				18,300	21,750	21,650	22,100	20,850	20,150	19,750	20,200	17,100
75					19,450	20,400	19,850	18,900	17,900	18,050	18,700	15,900
80					17,500	18,450	17,900	17,300	16,000	17,000	16,800	14,750
85						16,750	16,150	15,550	15,050	15,300	15,200	13,700
90						15,200	14,650	14,050	14,150	13,750	14,150	12,750
95						12,400	13,250	12,700	13,150	12,400	13,100	11,900
100							12,050	11,450	11,950	11,250	11,850	11,100
105							10,950	10,800	10,950	10,500	10,750	10,000
110								10,250	10,300	9,800	9,740	9,020
115								9,740	9,720	9,150	8,820	8,100
120								8,970	8,880	8,450	7,980	7,270
125								8,210	8,330	7,810	7,220	6,510
130								5,580	7,630	7,120	6,530	5,820
135									6,980	6,480	5,900	5,190
140									6,370	6,080	5,320	4,610
145									5,820	5,730	4,780	4,080
150										4,810	4,270	3,580
155										4,320	3,790	3,120
160											3,330	2,690
165											2,900	2,260
170											2,500	1,860
175											2,070	1,480
180												1,120

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LOAD CHART

Manual Bi-fold Extension



37.2 ft - 197 ft



35 ft



29,200 lb



100%



360°



Pounds

Radius in feet	35 ft boom extension								
	167.7 - 169.9 ft boom length			183.4 - 184.1 ft boom length			194.7 - 196.9 ft boom length		
	0° offset	20° offset	45° offset	0° offset	20° offset	45° offset	0° offset	20° offset	45° offset
40	12,800								
45	12,800			11,650					
50	12,800			11,650			10,050		
55	12,800	13,350		11,650			10,050		
60	12,800	13,350		11,650	12,050		10,050		
65	12,800	13,350	11,350	11,650	12,050		10,050	10,350	
70	12,800	13,000	11,150	11,650	12,050	11,300	10,050	10,350	
75	12,450	12,250	10,950	11,650	12,050	11,100	10,050	10,350	10,800
80	11,550	11,550	10,750	11,650	12,050	10,900	10,050	10,350	10,800
85	10,750	10,800	10,600	11,100	12,050	10,750	10,050	10,350	10,750
90	10,000	10,100	10,300	10,250	10,700	10,550	9,780	10,350	10,600
95	9,300	9,450	9,720	9,260	9,830	10,200	8,600	9,470	10,250
100	8,670	8,820	9,150	8,200	8,950	9,590	7,540	8,350	9,060
105	7,960	8,240	8,540	7,260	7,950	8,530	6,600	7,350	8,000
110	7,100	7,680	7,970	6,410	7,050	7,580	5,760	6,460	7,040
115	6,330	6,860	7,260	5,640	6,240	6,710	5,000	5,650	6,180
120	5,630	6,120	6,470	4,950	5,500	5,930	4,310	4,910	5,390
125	5,000	5,450	5,760	4,320	4,830	5,210	3,680	4,240	4,680
130	4,420	4,830	5,100	3,740	4,210	4,550	3,100	3,630	4,020
135	3,880	4,260	4,490	3,210	3,650	3,940	2,570	3,060	3,410
140	3,390	3,740	3,930	2,720	3,120	3,390	2,090	2,540	2,850
145	2,940	3,250		2,270	2,640	2,870	1,640	2,060	2,340
150	2,520	2,800		1,850	2,190	2,390	1,220	1,610	1,860
155	2,130	2,390		1,460	1,780			1,200	1,410
160	1,770	2,000		1,100	1,390				
165	1,440	1,630			1,030				
170	1,130	1,290							

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LOAD CHART

Manual Bi-fold Extension



37.2 ft - 197 ft



58 ft



29,200 lb



100%



360°



Pounds

Radius in feet	58 ft boom extension								
	167.7 - 169.9 ft boom length			183.4 - 184.1 ft boom length			194.7 - 196.9 ft boom length		
	0° offset	20° offset	45° offset	0° offset	20° offset	45° offset	0° offset	20° offset	45° offset
45	8,090								
50	8,090			7,570					
55	8,090			7,570			6,640		
60	8,090			7,570			6,640		
65	8,090			7,570			6,640		
70	8,090	7,080		7,570			6,640		
75	8,090	6,940		7,570	6,940		6,640		
80	8,090	6,810	5,690	7,570	6,820		6,640	6,660	
85	8,090	6,680	5,620	7,570	6,700	5,660	6,640	6,560	
90	8,000	6,570	5,560	7,570	6,590	5,600	6,640	6,470	
95	7,830	6,450	5,500	7,570	6,490	5,540	6,640	6,370	5,520
100	7,650	6,340	5,440	7,570	6,390	5,480	6,640	6,290	5,480
105	7,490	6,240	5,380	7,260	6,290	5,430	6,640	6,200	5,430
110	7,080	6,140	5,330	6,810	6,190	5,370	6,170	6,120	5,390
115	6,610	6,040	5,280	6,030	6,100	5,330	5,390	6,040	5,340
120	6,020	5,960	5,240	5,330	5,970	5,280	4,690	5,830	5,300
125	5,370	5,870	5,210	4,690	5,660	5,250	4,060	5,120	5,260
130	4,780	5,600	5,180	4,100	5,010	5,210	3,470	4,470	5,220
135	4,240	5,000	5,130	3,560	4,420	5,150	2,940	3,870	4,690
140	3,740	4,450	5,020	3,060	3,870	4,540	2,440	3,320	4,080
145	3,280	3,940	4,450	2,610	3,360	3,970	1,990	2,820	3,500
150	2,860	3,470	3,920	2,180	2,890	3,440	1,570	2,340	2,970
155	2,460	3,030	3,420	1,790	2,450	2,940	1,180	1,900	2,480
160	2,090	2,620	2,950	1,420	2,040	2,480		1,490	2,010
165	1,750	2,230	2,510	1,080	1,650	2,040		1,110	1,580
170	1,430	1,870			1,290	1,630			1,170
175	1,130	1,530				1,240			
180		1,210							

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LOAD CHART

Hydraulic Bi-fold Extension



37.2 ft - 197 ft



35 ft



29,200 lb



100%



360°



Pounds

Radius in feet	35 ft boom extension								
	167.7 - 169.9 ft boom length			183.4 - 184.1 ft boom length			194.7 - 196.9 ft boom length		
	0° offset	0° - 20° offset	20° - 45° offset	0° offset	0° - 20° offset	20° - 45° offset	0° offset	0° - 20° offset	20° - 45° offset
45	12,900			11,650					
50	12,900			11,650			10,000		
55	12,900			11,650			10,000		
60	12,900	12,900		11,650	11,650		10,000		
65	12,900	12,900	11,350	11,650	11,650		10,000	10,000	
70	12,900	12,900	11,150	11,650	11,650	11,300	10,000	10,000	
75	12,450	12,200	10,950	11,650	11,650	11,100	10,000	10,000	10,300
80	11,550	11,450	10,750	11,650	11,650	10,900	10,000	10,000	10,300
85	10,700	10,700	10,600	11,050	11,050	10,750	10,000	10,000	10,300
90	9,960	9,960	10,100	10,200	10,200	10,550	9,750	9,750	10,300
95	9,270	9,270	9,420	9,230	9,230	9,800	8,560	8,560	9,440
100	8,630	8,630	8,790	8,170	8,170	8,920	7,510	7,510	8,320
105	7,920	7,920	8,200	7,220	7,220	7,920	6,570	6,570	7,320
110	7,070	7,070	7,650	6,370	6,370	7,020	5,720	5,720	6,420
115	6,300	6,300	6,830	5,610	5,610	6,210	4,960	4,960	5,610
120	5,600	5,600	6,090	4,910	4,910	5,470	4,270	4,270	4,880
125	4,960	4,960	5,410	4,280	4,280	4,790	3,640	3,640	4,210
130	4,380	4,380	4,800	3,700	3,700	4,180	3,070	3,070	3,590
135	3,850	3,850	4,230	3,170	3,170	3,610	2,540	2,540	3,030
140	3,360	3,360	3,700	2,680	2,680	3,090	2,050	2,050	2,510
145	2,910	2,910		2,230	2,230	2,610	1,600	1,600	2,030
150	2,490	2,490		1,810	1,810	2,160	1,190	1,190	1,580
155	2,100	2,100		1,430	1,430				1,160
160	1,740	1,740		1,070	1,070				
165	1,400	1,400							
170	1,090	1,090							

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LOAD CHART

Hydraulic Bi-fold Extension



37.2 ft - 197 ft



58 ft



29,200 lb



100%



360°



Pounds

Radius in feet	58 ft boom extension								
	167.7 - 169.9 ft boom length			183.4 - 184.1 ft boom length			194.7 - 196.9 ft boom length		
	0° offset	0° - 20° offset	20° - 45° offset	0° offset	0° - 20° offset	20° - 45° offset	0° offset	0° - 20° offset	20° - 45° offset
45	8,070								
50	8,070			7,550					
55	8,070			7,550			6,620		
60	8,070			7,550			6,620		
65	8,070			7,550			6,620		
70	8,070	7,070		7,550			6,620		
75	8,070	6,940		7,550	6,930		6,620		
80	8,070	6,810	5,500	7,550	6,810		6,620	6,620	
85	8,070	6,680	5,440	7,550	6,700	5,470	6,620	6,560	
90	8,000	6,560	5,380	7,550	6,590	5,410	6,620	6,470	
95	7,820	6,440	5,320	7,550	6,480	5,360	6,620	6,370	5,360
100	7,650	6,310	5,270	7,550	6,380	5,310	6,620	6,280	5,320
105	7,480	6,180	5,230	7,240	6,290	5,260	6,620	6,200	5,270
110	7,050	6,070	5,190	6,770	6,170	5,220	6,130	6,110	5,230
115	6,580	5,950	5,150	6,000	6,000	5,180	5,360	5,360	5,190
120	5,990	5,840	5,120	5,300	5,300	5,150	4,660	4,660	5,150
125	5,340	5,340	5,090	4,650	4,650	5,110	4,020	4,020	5,090
130	4,750	4,750	5,070	4,070	4,070	4,990	3,440	3,440	4,440
135	4,210	4,210	4,980	3,530	3,530	4,390	2,910	2,910	3,850
140	3,710	3,710	4,420	3,030	3,030	3,840	2,410	2,410	3,300
145	3,250	3,250	3,910	2,580	2,580	3,330	1,960	1,960	2,790
150	2,830	2,830	3,440	2,150	2,150	2,860	1,540	1,540	2,310
155	2,430	2,430	3,000	1,760	1,760	2,420	1,140	1,140	1,880
160	2,060	2,060	2,590	1,390	1,390	2,010			1,470
165	1,720	1,720	2,200	1,050	1,050	1,620			1,080
170	1,400	1,400				1,260			
175	1,100	1,100							

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LOAD CHART

Pick and Carry



37.2 ft - 86.6 ft



29,200 lb



Pick and carry
Creep Speed
29.5 x 25 tires



Boom Over
Front

Boom centered over front						
Radius in feet	Main boom length in feet					
	37.2	49.9	60.5	62.6	75.6	86.6
Tele I	0%	0%	0%	0%	0%	0%
Tele II	0%	0%	0%	0%	0%	0%
Tele III	0%	0%	0%	0%	0%	0%
Tele IV	0%	0%	0%	0%	0%	0%
Tele V	0%	0%	0%	0%	50%	92%
Tele VI	0%	50%	92%	100%	100%	100%
12	49,400	43,000				
15	41,300	40,000	38,000	38,000		
20	32,000	34,250	32,000	32,000	27,000	24,000
25	24,000	27,550	28,000	28,000	24,000	22,500
30		21,750	23,200	23,150	22,500	21,500
35		17,650	19,550	19,500	21,000	20,300
40		14,500	15,750	16,000	17,750	17,550
45			13,100	13,350	15,050	15,100
50			10,950	11,200	12,700	12,950
55				9,370	10,650	11,050
60					8,910	9,330
65					7,350	7,770
70						6,350
75						5,060
Minimum boom angle (°) for indicated length (no load)						0°
Maximum boom length at 0° boom angle (no load)						86.6 ft

Boom angle	Lifting capacities at 0° boom angle					
	37.2	49.9	60.5	62.6	75.6	86.6
0°	18,450	13,300	9,830	9,360	6,500	4,110

NOTES FOR PICK & CARRY ON RUBBER

1. Capacities are in pounds and do not exceed 75% of tipping loads as determined by test in accordance with SAE J765.
2. Capacities are applicable to machines equipped with Titan ND LCM MCS - 29.5x25 (34 ply) tires at 76 psi (5.2 bar) cold inflation pressure.
3. Capacities are applicable only with the machine on a firm level surface.
4. On rubber lifting with boom extension not permitted.
5. For pick and carry operation, boom must be centered over front of machine, mechanical swing lock engaged, and load restrained from swinging.
6. Axle lockouts must be functioning when lifting on rubber.
7. All lifting depends on proper tire inflation, capacity and condition. Capacities must be reduced for lower tire inflation pressures. See the tire inflation table for tire specifications. Damaged tires are hazardous to safe operation of crane.
8. Creep - not over 200 ft (61 m) of movement in any 30 minute period and not exceeding 1 mph (1.6 km/h).

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LOAD CHART

Stationary



37.2 ft - 86.6 ft



29,200 lb



Stationary



360°

Stationary capacities						
Radius in feet	Main boom length in feet					
	37.2	49.9	60.5	62.6	75.6	86.6
Tele I	0%	0%	0%	0%	0%	0%
Tele II	0%	0%	0%	0%	0%	0%
Tele III	0%	0%	0%	0%	0%	0%
Tele IV	0%	0%	0%	0%	0%	0%
Tele V	0%	0%	0%	0%	50%	92%
Tele VI	0%	50%	92%	100%	100%	100%
20	31,000					
25	20,600	23,500				
30		17,150	19,300	19,550		
35		12,800	14,800	15,000	16,700	17,100
40		9,660	11,450	11,700	13,300	13,750
45			8,920	9,230	10,750	11,150
50			6,890	7,240	8,730	9,150
55				5,640	7,110	7,520
60					5,780	6,160
65					4,670	5,030
70						4,070
75						3,230
Minimum boom angle (°) for indicated length (no load)						0°
Maximum boom length at 0° boom angle (no load)						86.6 ft

NOTES FOR STATIONARY ON RUBBER

1. Capacities are in pounds and do not exceed 75% of tipping loads as determined by test in accordance with SAE J765.
2. Capacities are applicable to machines equipped with Titan ND LCM MCS - 29.5x25 (34 ply) tires at 76 psi (5.2 bar) cold inflation pressure.
3. Capacities are applicable only with the machine on a firm level surface.
4. On rubber lifting with boom extension not permitted.
5. Axle lockouts must be functioning when lifting on rubber.
6. All lifting depends on proper tire inflation, capacity and condition. Capacities must be reduced for lower tire inflation pressures. See the tire inflation table for tire specifications. Damaged tires are hazardous to safe operation of crane.

Boom angle	Lifting capacities at 0° boom angle					
	37.2	49.9	60.5	62.6	75.6	86.6
0°	14,650	8,440	5,840	5,620	4,070	2,640

THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE.

The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane