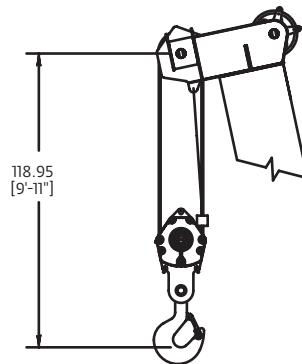
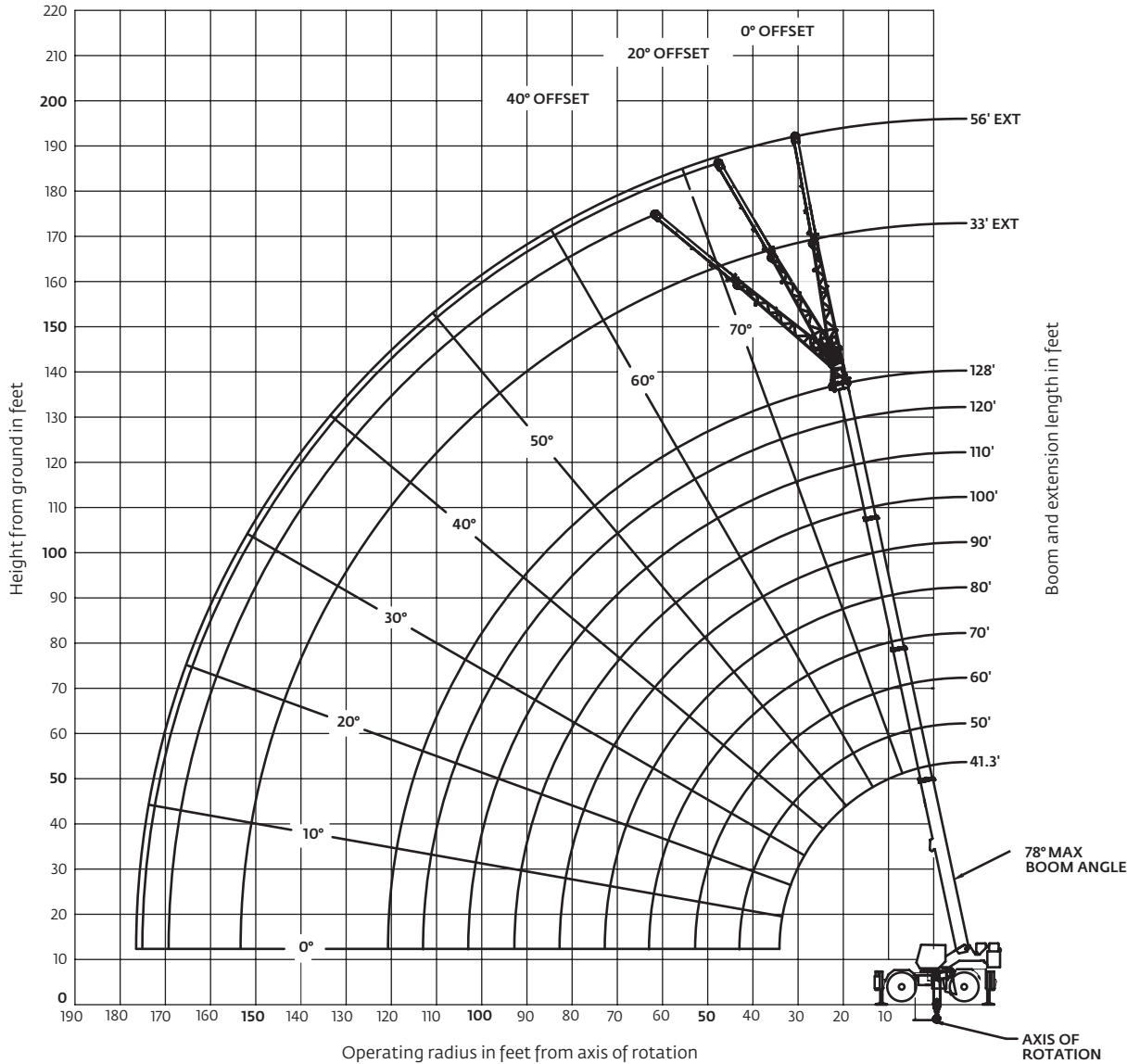


Working range

Working range diagram with bi-fold extension



Dimensions are for largest Grove furnished hookblock and overhaul ball, with anti-two block activated.

RT880E load chart

41.3 ft - 128 ft
 18,000 lb
 100% 24 ft spread
 360°

Feet	Main boom length in feet									
	41.3	50	60	**70	80	90	100	110	120	128
10	++160,000 (71)	124,000 (74.5)	105,500 (77.5)							
12	+150,000 (67.5)	124,000 (72)	105,500 (75.5)	59,500 (78)						
15	130,000 (63)	124,000 (68.5)	104,000 (72.5)	59,500 (75.5)	42,100 (78)	*42,000 (78)				
20	100,000 (54.5)	99,850 (62)	85,900 (67.5)	59,500 (71)	42,100 (74)	42,000 (76)	*39,650 (78)	*31,950 (78)		
25	80,550 (44.5)	80,250 (55)	72,550 (62)	57,050 (66.5)	42,100 (70)	42,000 (73)	39,650 (75)	31,950 (77)	*25,750 (78)	*22,000 (78)
30	59,050 (31.5)	58,150 (47)	57,850 (56)	49,300 (62)	42,100 (66)	39,050 (69.5)	36,150 (72)	31,950 (74)	25,750 (76)	22,000 (77)
35		43,250 (37.5)	43,000 (49.5)	42,600 (57)	38,150 (62)	34,100 (66)	31,350 (68.5)	29,300 (71.5)	25,750 (73.5)	22,000 (74.5)
40		33,600 (24.5)	33,400 (42.5)	32,950 (52)	33,750 (58)	30,050 (62)	27,500 (65.5)	25,650 (68.5)	23,900 (71)	22,000 (72.5)
45			26,600 (34)	26,200 (46)	27,400 (53)	26,750 (58.5)	24,400 (62)	22,700 (65.5)	21,450 (68)	20,650 (70)
50	See Note 16		21,600 (22)	21,150 (39.5)	22,450 (48.5)	23,250 (54.5)	21,850 (59)	20,250 (62.5)	19,100 (65.5)	18,350 (67.5)
55				17,250 (31.5)	18,650 (43)	19,400 (50)	19,700 (55)	18,200 (59.5)	17,100 (63)	16,400 (65)
60				14,200 (21)	15,600 (37)	16,400 (45.5)	17,050 (51.5)	16,450 (56)	15,450 (60)	14,750 (62.5)
65					13,100 (29.5)	13,850 (40.5)	14,550 (47.5)	14,950 (53)	14,000 (57)	13,350 (59.5)
70					11,050 (19)	11,800 (34.5)	12,450 (43)	12,900 (49.5)	12,700 (54)	12,150 (57)
75						10,000 (28)	10,700 (38.5)	11,200 (45.5)	11,600 (51)	11,050 (54)
80							8540 (18)	9170 (33)	9670 (41.5)	10,100 (51)
85								7860 (26.5)	8360 (37)	8850 (44)
90									7700 (40)	8050 (44.5)
95									6200 (25.5)	6700 (35.5)
100									5310 (17)	5800 (30.5)
105										5010 (25)
110										4640 (16.5)
115										4000 (21.5)
120										3410 (10.5)

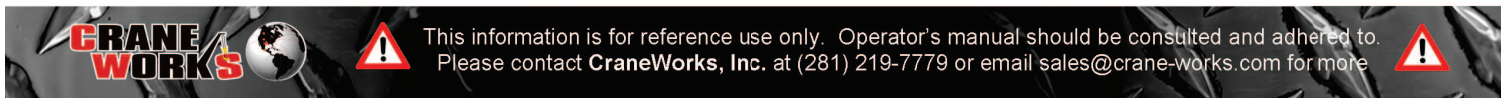
Minimum boom angle (°) for indicated length (no load) 9
 Maximum boom length (ft) at 0° boom angle (no load) 120
 #LMI operating code. Refer to LMI manual for instructions.
 *This capacity is based upon maximum obtainable boom angle.
 Note: () Boom angles are in degrees.
 +9 parts line required to lift this capacity (using aux. boom nose). Refer to Operator's & Safety Handbook for reeving diagram.
 ++ 10 parts line required to lift this capacity (using aux. boom nose). Refer to Operator's & Safety Handbook for reeving diagram.

Boom angle	Main boom length in feet									
	41.3	50	60	**70	80	90	100	110	120	128
0°	20,750 (34.1)	15,150 (42.8)	10,500 (52.8)	6700 (63)	5100 (72.8)	3900 (82.8)	2900 (92.8)	2000 (102.8)	1300 (112.8)	

Note: () Reference radii in feet. 80001982
 **This boom length is with inner-mid fully extended and outer-mid & fly fully retracted.

NOTES:

- All capacities above the bold line are based on structural strength of boom extension and do not exceed 85% of tipping loads, in accordance with SAE J-765.
- The 33 ft extension length may be used with single or double part line lifting service. The 56 ft extension length may be used for single line lifting service only.
- For main boom lengths less than 128 ft with the boom extension erected, the rated loads are determined by boom angle. Use only the column which corresponds to the boom extension length and offset for which the machine is set up. For boom angles not shown, use the rating of the next lower boom angle.
- WARNING:** Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom extension occurs rapidly and without advance warning.
- Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.
- Capacities listed are with outriggers properly extended and vertical jacks set only.
- When lifting over the main boom nose with 33 ft or 56 ft extension erected, the outriggers must be fully extended or 50% extended (17 ft 4 in spread).



RT880E load chart

41.3 ft - 128 ft
 33 ft - 56 ft
 18,000 lb
 100%
 360°
 24 ft spread

Feet	Pounds					
	33 ft LENGTH			56 ft LENGTH		
	0° OFFSET #0021	20° OFFSET #0022	40° OFFSET #0023	0° OFFSET #0041	20° OFFSET #0042	40° OFFSET #0043
35	11,900 (78)					
40	11,900 (77)			6060 (78)		
45	11,900 (75.5)	*11,900 (78)		6060 (77.5)		
50	11,900 (73.5)	10,600 (76.5)	*9790 (78)	6060 (76)		
55	11,900 (71.5)	9770 (74.5)	8470 (77)	6060 (74.5)		
60	11,000 (69.5)	9020 (72.5)	7920 (75)	6060 (72.5)	*6060 (78)	
65	10,000 (67.5)	8360 (70.5)	7430 (73)	6060 (71)	5900 (76.5)	
70	9190 (65.5)	7780 (68.5)	6980 (71)	6060 (69.5)	5730 (75)	*5060 (78)
75	8460 (63.5)	7260 (66.5)	6580 (69)	6060 (67.5)	5330 (73)	4640 (77)
80	7820 (61.5)	6790 (64.5)	6210 (66.5)	6040 (66)	4980 (71.5)	4370 (75.5)
85	7250 (59.5)	6370 (62)	5870 (64.5)	5570 (64)	4650 (69.5)	4120 (73.5)
90	6740 (57)	5990 (60)	5560 (62)	5150 (62.5)	4360 (67.5)	3890 (71.5)
95	6290 (55)	5640 (57.5)	5280 (60)	4780 (60.5)	4090 (66)	3680 (69.5)
100	5880 (52.5)	5320 (55.5)	5020 (57.5)	4440 (58.5)	3840 (64)	3480 (67.5)
105	5510 (50)	5030 (53)	4770 (55)	4130 (56.5)	3610 (62)	3300 (65.5)
110	5170 (47.5)	4760 (50.5)	4550 (52)	3850 (54.5)	3400 (60)	3130 (63.5)
115	4830 (45)	4510 (47.5)	4340 (49.5)	3590 (52.5)	3200 (58)	2970 (61)
120	4230 (42)	4280 (45)	4150 (46.5)	3360 (50.5)	3020 (55.5)	2820 (59)
125	3690 (39)	3960 (41.5)		3140 (48)	2840 (53.5)	2680 (56.5)
130	3200 (36)	3430 (38.5)		2940 (46)	2690 (51)	2540 (54)
135	2740 (32)	2930 (35)		2760 (43.5)	2540 (48.5)	2420 (51.5)
140	2320 (28)	2480 (30.5)		2590 (41)	2400 (46)	2300 (48.5)
145	1940 (23)			2430 (38.5)	2270 (43.5)	
150	1580 (16.5)			2070 (35.5)	2140 (40.5)	
155				1730 (32.5)	2030 (37)	
160				1420 (29)	1710 (33.5)	
165				1120 (24.5)		
Minimum boom angle (°) for indicated length (no load)	15	28	44	23	31	46
Maximum boom length (ft) at 0° boom angle (no load)		110			110	

NOTE: () Boom angles are in degrees. A6-829-103653
 #LMI operating code. Refer to LMI manual for operating instructions.
 *This capacity is based upon maximum boom angle.

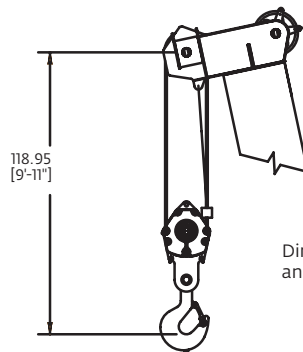
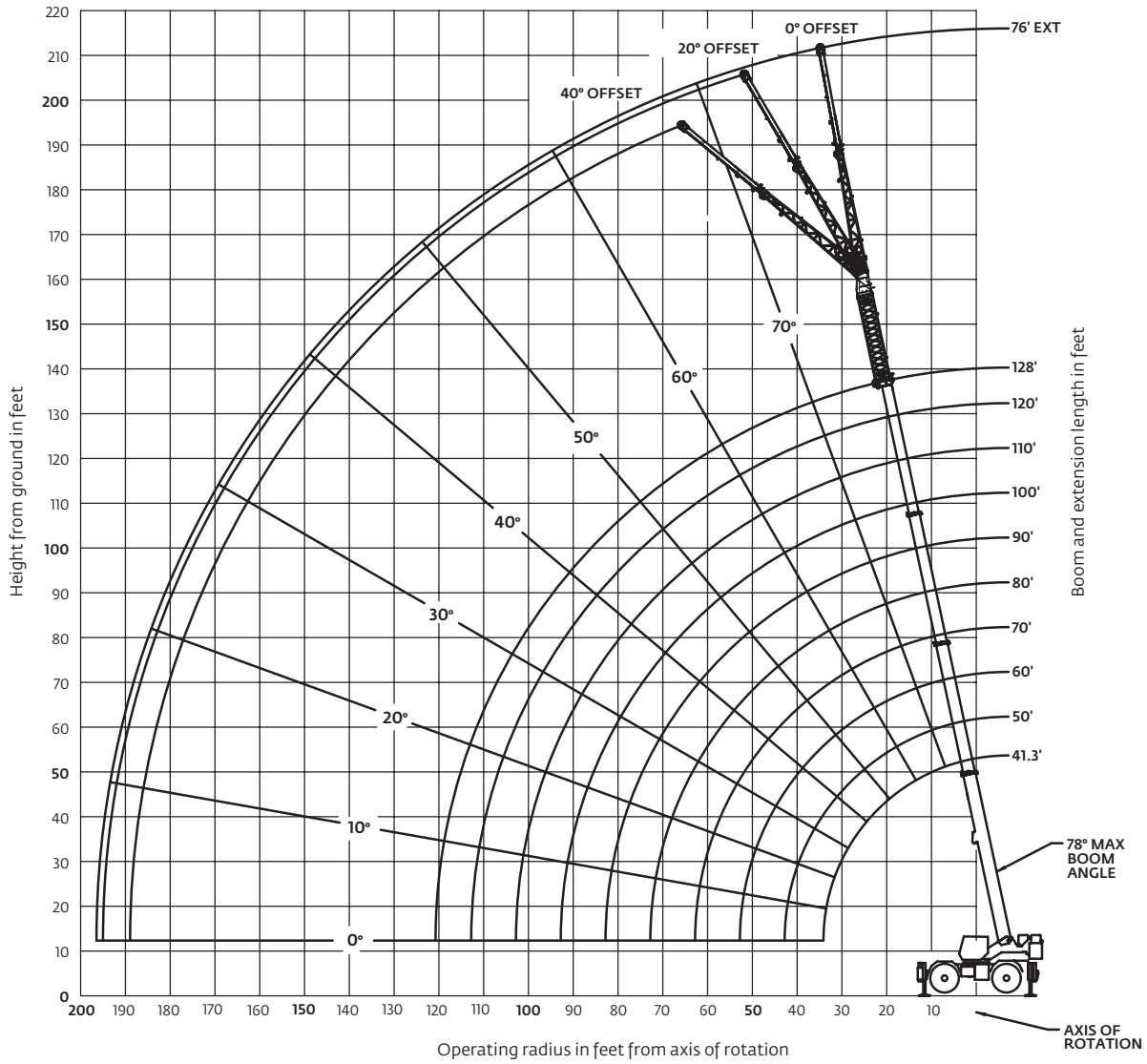
NOTES:

1. All capacities above the bold line are based on structural strength of boom extension and do not exceed 85% of tipping loads, in accordance with SAE J-765.
2. The 33 ft extension length may be used with single or double part line lifting service. The 56 ft extension length may be used for single line lifting service only.
3. For main boom lengths less than 128 ft with the boom extension erected, the rated loads are determined by boom angle. Use only the column which corresponds to the boom extension length and offset for which the machine is set up. For boom angles not shown, use the rating of the next lower boom angle.
4. **WARNING:** Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom extension occurs rapidly and without advance warning.
5. Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.
6. Capacities listed are with outriggers properly extended and vertical jacks set only.
7. When lifting over the main boom nose with 33 ft or 56 ft extension erected, the outriggers must be fully extended or 50% extended (17 ft 4 in spread).



Working range

Working range diagram with bi-fold extension and one insert



Dimensions are for largest Grove furnished hookblock and overhaul ball, with anti-two block activated.

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

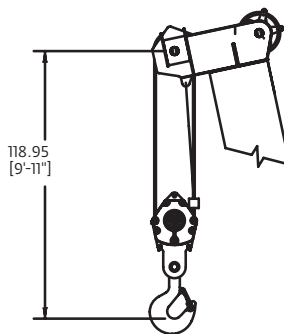
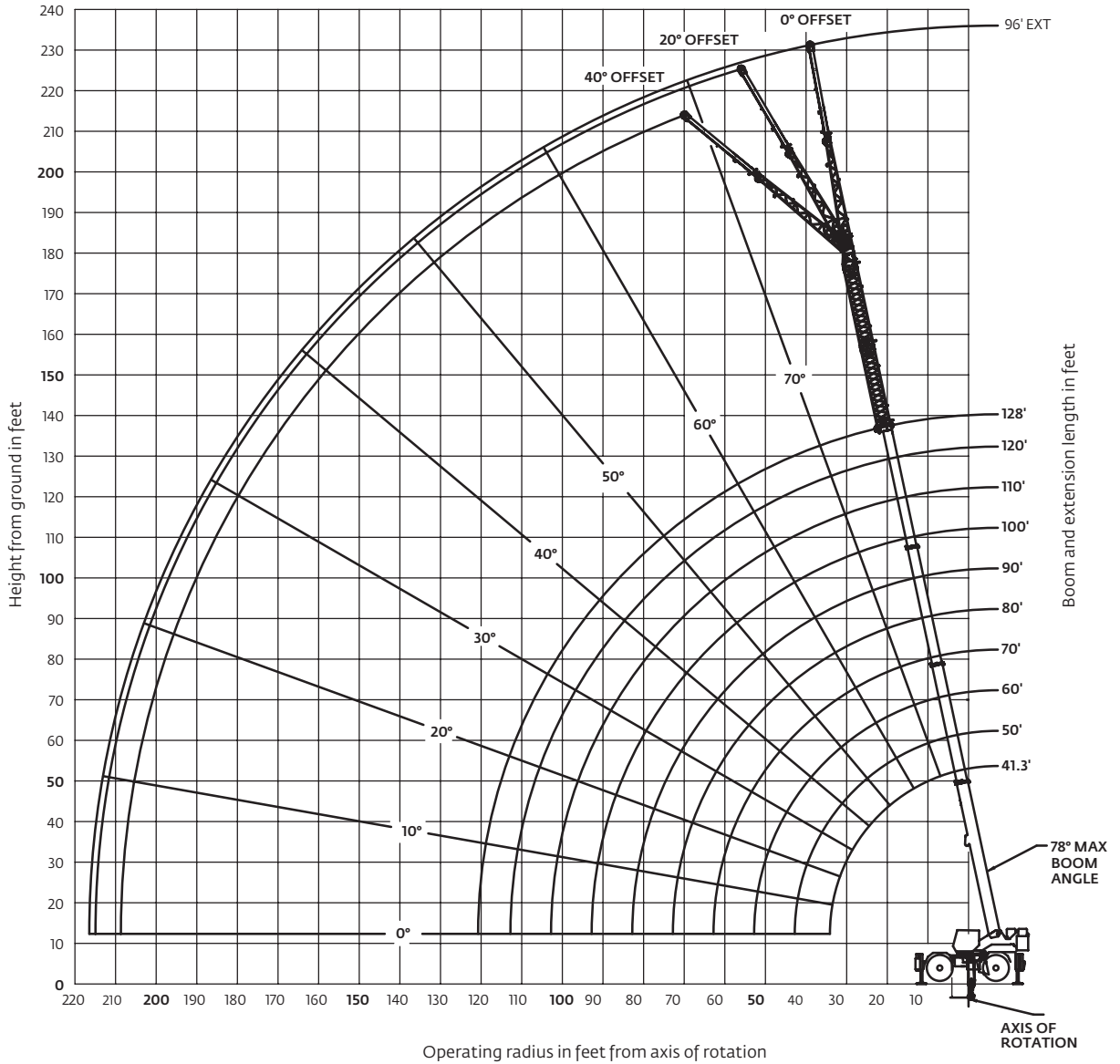
Grove RT880E

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



Working range

Working range diagram with bi-fold extension and two inserts



Dimensions are for largest Grove furnished hookblock and overhaul ball, with anti-two block activated.

RT880E load chart



Feet	76 ft (56 ft LENGTH + 1 INSERT)			96 ft (56 ft LENGTH + 2 INSERTS)		
	0°	20°	40°	0°	20°	40°
	OFFSET #0084	OFFSET #0085	OFFSET #0086	OFFSET #0084	OFFSET #0085	OFFSET #0086
50	4850 (78)					
55	4850 (77.5)			3520 (78)		
60	4850 (76)			3520 (77.5)		
65	4850 (74.5)	*5290 (78)		3520 (76.5)		
70	4850 (73)	4860 (77.5)		3520 (75)		
75	4850 (71.5)	4470 (76)		3520 (73.5)	3740 (78)	
80	4730 (70)	4110 (74.5)	*4050 (78)	3520 (72.5)	3420 (76.5)	
85	4310 (68.5)	3790 (73)	3500 (76.5)	3300 (71)	3100 (75)	*3250 (78)
90	3940 (67)	3500 (71)	3260 (75)	2970 (69.5)	2820 (73.5)	2720 (77)
95	3610 (65.5)	3240 (69.5)	3030 (73)	2660 (68)	2560 (72)	2490 (75.5)
100	3310 (64)	3000 (68)	2830 (71.5)	2390 (66.5)	2320 (71)	2270 (74)
105	3040 (62)	2770 (66)	2630 (69.5)	2140 (65)	2100 (69.5)	2070 (72)
110	2790 (60.5)	2570 (64.5)	2450 (68)	1920 (63.5)	1900 (68)	1890 (70.5)
115	2560 (58.5)	2370 (62.5)	2280 (66)	1710 (62)	1710 (66.5)	1710 (69)
120	2350 (57)	2200 (61)	2120 (64)	1520 (60.5)	1540 (64.5)	1550 (67.5)
125	2160 (55)	2030 (59)	1970 (62)	1350 (59)	1380 (63)	1390 (66)
130	1990 (53)	1880 (57)	1830 (60)	1190 (57.5)	1230 (61.5)	1250 (64)
135	1820 (51.5)	1730 (55)	1700 (58)	1040 (56)	1080 (60)	1110 (62.5)
140	1670 (49.5)	1590 (53)	1570 (56)			
145	1530 (47)	1470 (51)	1450 (53.5)			
150	1400 (45)	1340 (49)	1340 (51.5)			
155	1270 (43)	1230 (46.5)	1230 (48.5)			
160	1160 (40.5)	1120 (44)	1130 (46)			
165	1050 (38)	1020 (41.5)				
Minimum boom angle (°) for indicated length (no load)	36	40	44	54	58	60

Maximum boom length (ft) at 0° boom angle (no load)

70

60

NOTE: () Boom angles are in degrees. A6-829-103655
 #LMI operating code. Refer to LMI manual for operating instructions.
 *This capacity is based upon maximum boom angle.
 RT875E - S/N 223983

NOTES:

- All capacities above the bold line are based on structural strength of boom extension and do not exceed 85% of tipping loads, in accordance with SAE J-765.
- The 56 ft boom extension length may be used for single line lifting service only.
- For main boom lengths less than 128 ft with the boom extension erected, the rated loads are determined by boom angle. Use only the column which corresponds to the boom extension length and offset for which the machine is set up. For boom angles not shown, use rating of the next lower boom angle.
- WARNING:** Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom extension occurs rapidly and without advance warning.
- Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.
- When lifting over the main boom nose with 56 ft extension erected and inserts, the outriggers must be fully extended and vertical jacks set.

RT880E load charts

41.3 ft - 90 ft
 18,000 lb
 Stationary
 360°

Pounds						
#9005						
Feet	Main boom length in feet					
	41.3	50	60	70	80	90
12	49,200 (67.5)	40,750 (72)				
15	39,150 (63)	35,700 (68.5)				
20	24,200 (54.5)	24,350 (62)	22,800 (67.5)	22,000 (71)		
25	16,200 (44.5)	16,200 (55)	15,600 (62)	15,950 (66.5)	15,850 (70)	
30	11,250 (31.5)	11,250 (47)	10,950 (56)	10,650 (62)	11,600 (66)	12,150 (69.5)
35		7900 (37.5)	7690 (49.5)	7270 (57)	8420 (62)	8820 (66)
40		5490 (24.5)	5280 (42.5)	4880 (52)	6020 (58)	6330 (62)
45			3430 (34)	3110 (46)	4130 (53)	4480 (58.5)
50			1350 (22)	1740 (39.5)	2610 (48.5)	3040 (54.5)
55				1360 (43)	1070 (50)	
Minimum boom angle (°) for indicated length (no load)			21	38.5	42	49
Maximum boom length (ft) at 0° boom angle (no load)				50		
#LMI operating code. Refer to LMI manual for instructions.						
Note: () Boom angles are in degrees.						
*This boom length is with inner-mid fully extended and outer-mid and fly fully retracted.						
Lifting capacities at zero degree boom angle						
Boom angle	Main boom length in feet					
	41.3	50				
0°	8340 (34.1)	4400 (42.8)				

Note: () Reference radii in feet.

A6-829-0103649A

41.3 ft - 90 ft
 18,000 lb
 Pick & carry Up to 2.5 mph
 Boom centered over front

Pounds						
#9006						
Feet	Main boom length in feet					
	41.3	50	60	70	80	90
12	59,450 (67.5)	49,400 (72)				
15	49,650 (63)	49,400 (68.5)				
20	38,100 (54.5)	37,800 (62)	36,850 (67.5)	29,750 (71)		
25	30,000 (44.5)	29,700 (55)	29,200 (62)	29,700 (66.5)		
30	24,100 (31.5)	23,750 (47)	23,500 (56)	23,850 (62)	24,450 (66)	
35		18,000 (37.5)	17,900 (49.5)	18,150 (57)	19,000 (62)	19,900 (66)
40		13,650 (24.5)	13,700 (42.5)	13,750 (52)	14,700 (58)	15,500 (62)
45			9400 (34)	9290 (46)	11,500 (53)	12,300 (58.5)
50			7420 (22)	7200 (39.5)	8220 (48.5)	8960 (54.5)
55				5450 (31.5)	6510 (43)	7220 (50)
60				3970 (21)	5060 (37)	5740 (45.5)
65					3810 (29.5)	4460 (40.5)
70					2720 (19)	3350 (34.5)
75						2380 (28)
80						1520 (18)
Minimum boom angle (°) for indicated length (no load)						
0						
Maximum boom length (ft) at 0° boom angle (no load)						
90						
#LMI operating code. Refer to LMI manual for instructions.						
Note: () Boom angles are in degrees.						
Lifting capacities at zero degree boom angle						
Boom angle	Main boom length in feet					
	41.3	50	60	70	80	90
0°	19,400 (34.1)	10,250 (42.8)	6460 (52.8)	3170 (63)	2170 (72.8)	1080 (82.8)

Note: () Reference radii in feet.

*This boom length is with inner-mid fully extended and outer-mid and fly fully retracted.

A6-829-0103650

NOTES:

- Capacities are in pounds and do not exceed 75% of tipping loads as determined by test in accordance with SAE J765.
- Capacities are applicable to machines equipped with 29.6 x 25 (34 ply) General tires at 76 psi cold inflation pressure.
- Capacities appearing above the bold line are based on structural strength and tipping should not be relied upon as a capacity limitation.
- Capacities are applicable only with machine on firm level surface.
- On rubber lifting with boom extensions not permitted.
- For pick and carry operation, boom must be centered over front of machine, mechanical swing lock engaged and load restrained from swinging. When handling loads in the structural range with capacities close to maximum ratings, travel should be reduced to creep speeds.
- Axle lockouts must be functioning when lifting on rubber.
- All lifting depends on proper tire inflation, capacity and condition. Capacities must be reduced for lower tire inflation pressures. See lifting capacity chart for tire used. Damaged tires are hazardous to safe operation of crane.
- Creep – Not over 200 ft of movement in any 30 minute period and not exceeding 1 mph.

