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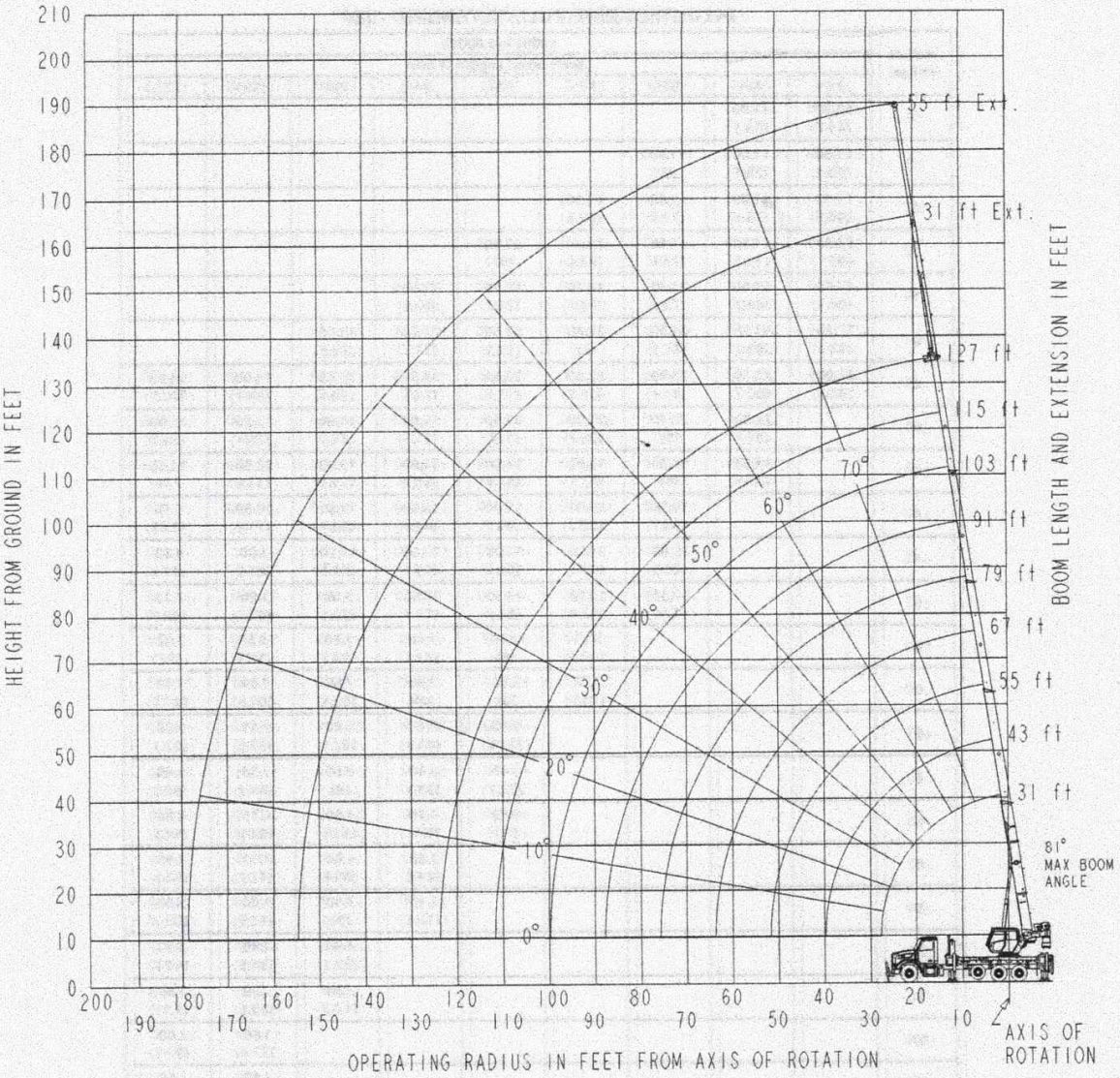
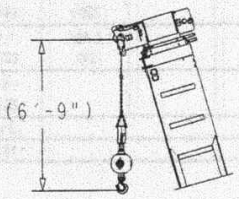
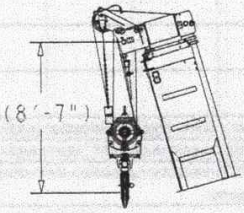
GEOMETRIC RANGE DIAGRAM
(BOOM DEFLECTION NOT SHOWN) 80138096







DIMENSIONS ARE FOR LARGEST FURNISHED HOOK BLOCK & HEADACHE BALL, WITH ANTI-TWO BLOCK ACTIVATED.

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RATED LIFTING CAPACITIES IN POUNDS
31 FT. - 127 FT. BOOM
WITH 4,000 LB. FIXED COUNTERWEIGHT
ON OUTRIGGERS FULLY EXTENDED - 360°

Radius in Feet	#0001 or #0003 Main Boom Length in Feet								
	31.4	43-A	55-B	67-C	79-D	91-E	103-F	115-G	127.3
6	90,000 (74.6)	41,800 (79.4)							
8	81,350 (70.8)	41,800 (76.6)	41,800 (80)						
10	71,100 (66.8)	41,800 (73.9)	41,800 (77.9)	37,500 (80.6)					
12	62,950 (62.7)	41,800 (71.1)	41,050 (75.8)	36,450 (78.9)	29,900 (81)				
15	53,350 (56.1)	41,800 (66.8)	38,350 (72.6)	33,200 (76.3)	29,300 (78.8)	22,950 (80.8)			
20	37,150 (43.3)	38,250 (59.2)	34,500 (67.1)	28,900 (72)	25,850 (75.3)	20,750 (77.7)	18,050 (79.6)		
25	27,600 (25.3)	28,750 (50.7)	28,950 (61.4)	25,600 (67.5)	22,850 (71.6)	18,650 (74.6)	16,750 (76.9)	14,500 (78.8)	10,900 (80.3)
30		22,500 (40.7)	22,700 (55)	23,000 (62.8)	20,500 (67.8)	16,600 (71.4)	14,950 (74.2)	13,350 (76.4)	10,900 (78.2)
35		18,050 (27.4)	18,300 (48)	18,900 (57.7)	18,600 (63.9)	14,850 (68.2)	13,400 (71.4)	12,050 (73.9)	10,350 (76)
40			15,000 (39.7)	15,600 (52.3)	15,800 (59.7)	13,400 (64.8)	12,050 (68.5)	10,950 (71.4)	9,750 (73.8)
45			12,450 (29.3)	13,000 (46.1)	13,300 (55.3)	12,100 (61.2)	10,950 (65.6)	9,960 (68.9)	9,080 (71.6)
50			10,150 (13.1)	10,550 (39.3)	10,950 (50.4)	10,950 (57.4)	9,960 (62.5)	9,080 (66.3)	8,310 (69.3)
55				8,710 (30.7)	9,100 (45)	9,140 (53.4)	9,050 (59.2)	8,320 (63.6)	7,620 (67)
60				7,220 (18.9)	7,630 (39)	7,660 (49)	7,660 (55.8)	7,590 (60.6)	7,010 (64.7)
65					6,430 (31.6)	6,470 (44.2)	6,480 (52.1)	6,510 (57.6)	6,420 (62.1)
70					5,440 (22.2)	5,480 (38.9)	5,500 (48)	5,530 (54.4)	5,480 (59.3)
75					4,590 (5.1)	4,550 (32.4)	4,690 (43.6)	4,710 (50.9)	4,660 (56.5)
80						3,830 (24.5)	4,000 (38.8)	4,010 (47.2)	3,980 (53.5)
85						3,190 (13.4)	3,400 (33)	3,400 (43.2)	3,400 (50.2)
90							2,880 (26.1)	2,880 (38.9)	2,910 (46.8)
95							2,350 (17.3)	2,290 (33.6)	2,480 (43.1)
100								1,860 (27.4)	2,000 (39.1)
105								1,490 (20)	1,560 (34.3)
110								1,080 (9)	1,170 (28.8)
115									810 (22.4)
Min. boom angle for indicated length (no load)									21.4°
Max. boom length at 0° boom angle (no load)									115 ft.

#RCL operating code. Refer to RCL manual for operating instructions.

NOTE: ( ) Boom angles are in degrees.

Boom Angle	Main Boom Length in Feet								
	31.4	43-A	55-B	67-C	79-D	91-E	103-F	115-G	127.3
0°	17,050 (27.5)	10,950 (39.2)	7,090 (51.2)	5,040 (63.2)	3,440 (75.2)	2,240 (87.2)	1,340 (99.2)	610 (111.2)	

NOTE: ( ) Reference radii in feet.

80131733

Note: Lifting over the main boom nose with the tele extension erected is strictly prohibited.

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RATED LIFTING CAPACITIES IN POUNDS
31 FT. - 55 FT. MANUAL TELE BOOM EXTENSION
WITH 4,000 LB. FIXED COUNTERWEIGHT
ON OUTRIGGERS FULLY EXTENDED - 360°
31 FT. EXTENSION AT 0° OFFSET ANGLE

Radius in Feet	#0013 Main Boom Length in Feet		
	103-F	115-G	127.3
25	7,860 (80.1)		
30	7,710 (78.1)	6,530 (79.5)	4,870 (80.8)
35	7,300 (76.1)	6,520 (77.7)	4,850 (79.2)
40	6,540 (74.1)	6,370 (75.9)	4,820 (77.5)
45	5,910 (72)	5,770 (74)	4,800 (75.8)
50	5,360 (69.9)	5,260 (72.1)	4,760 (74.1)
55	4,890 (67.7)	4,810 (70.2)	4,540 (72.3)
60	4,490 (65.5)	4,410 (68.2)	4,210 (70.6)
65	4,130 (63.2)	4,070 (66.2)	3,890 (68.8)
70	3,810 (60.6)	3,760 (64.2)	3,610 (66.9)
75	3,530 (58)	3,480 (61.9)	3,350 (65.1)
80	3,280 (55.2)	3,240 (59.6)	3,120 (63)
85	3,060 (52.2)	3,020 (57.1)	2,910 (60.9)
90	2,730 (49.2)	2,590 (54.4)	2,480 (58.6)
95	2,250 (46)	2,120 (51.6)	2,000 (56.2)
100	1,830 (42.6)	1,690 (48.7)	1,580 (53.7)
105	1,450 (39)	1,310 (45.7)	1,200 (51.1)
110	1,110 (34.6)	980 (42.5)	860 (48.4)
115	800 (29.5)	670 (39.1)	560 (45.6)
120	530 (23.7)		
Min. boom angle for indicated length (no load)	22.7°	38.1°	44.6°
Max. boom length at 0° boom angle (no load)	43 ft.	43 ft.	43 ft.

#RCL operating code. Refer to RCL manual for operating instructions.
NOTE: ( ) Boom angles are in degrees. 80131734_31

BOOM EXTENSION CAPACITY NOTES:

1. 31 ft. and 55 ft. extension lengths may be used for single line lifting service only.
2. Radii listed are for boom extended to boom length column. For main boom lengths shorter than the shortest boom length column, the rated loads are determined by boom angles listed in the shortest boom length column. 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.
3. Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.
4. Capacities listed are with outriggers properly extended and vertical jacks set only.

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RATED LIFTING CAPACITIES IN POUNDS
31 FT. - 55 FT. MANUAL TELE BOOM EXTENSION
WITH 4,000 LB. FIXED COUNTERWEIGHT
ON OUTRIGGERS FULLY EXTENDED - 360°
55 FT. EXTENSION AT 0° OFFSET ANGLE

Radius in Feet	#0014 Main Boom Length in Feet		
	103-F	115-G	127.3
30	4,040 (80.8)		
35	3,630 (79.1)	3,520 (80.3)	
40	3,270 (77.5)	3,370 (78.8)	2,520 (80)
45	2,960 (75.8)	3,080 (77.2)	2,520 (78.6)
50	2,690 (74)	2,810 (75.7)	2,520 (77.2)
55	2,460 (72.3)	2,580 (74.1)	2,510 (75.7)
60	2,270 (70.5)	2,390 (72.5)	2,480 (74.2)
65	2,100 (68.7)	2,210 (70.8)	2,310 (72.7)
70	1,950 (66.9)	2,060 (69.2)	2,160 (71.2)
75	1,820 (65)	1,920 (67.5)	2,020 (69.7)
80	1,700 (63)	1,800 (65.8)	1,890 (68.1)
85	1,590 (60.9)	1,690 (63.9)	1,780 (66.5)
90	1,500 (58.7)	1,600 (62)	1,680 (64.9)
95	1,410 (56.2)	1,510 (60)	1,590 (63.2)
100	1,330 (53.7)	1,420 (57.7)	1,510 (61.4)
105	1,260 (51.1)	1,350 (55.4)	1,430 (59.4)
110	1,190 (48.4)	1,280 (53)	1,360 (57.2)
115	1,130 (45.6)	1,220 (50.6)	1,240 (55)
120	1,080 (42.6)	1,110 (48)	960 (52.7)
125	1,030 (39.4)	860 (45.3)	710 (50.3)
130	790 (35.5)	620 (42.6)	
135	580 (31.1)		
Min. boom angle for indicated length (no load)	30.1°	41.6°	49.3°
Max. boom length at 0° boom angle (no load)	43 ft.	43 ft.	43 ft.

#RCL operating code. Refer to RCL manual for operating instructions.
NOTE: ( ) Boom angles are in degrees. 80131734_55

BOOM EXTENSION CAPACITY NOTES:

1. 31 ft. and 55 ft. extension lengths may be used for single line lifting service only.
2. Radii listed are for boom extended to boom length column. For main boom lengths shorter than the shortest boom length column, the rated loads are determined by boom angles listed in the shortest boom length column. 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.
3. Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.
4. Capacities listed are with outriggers properly extended and vertical jacks set only.

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RATED LIFTING CAPACITIES IN POUNDS
31 FT. - 127 FT. BOOM
WITH 4,000 LB. FIXED COUNTERWEIGHT
ON OUTRIGGERS 50% EXTENDED (16 FT. SPREAD) - 360°

Radius in Feet	#0401 or #0403 Main Boom Length in Feet								
	31.4	43-A	55-B	67-C	79-D	91-E	103-F	115-G	127.3
6	88,550 (74.6)	41,800 (79.4)							
8	75,850 (70.8)	41,800 (76.6)	41,800 (80)						
10	66,150 (66.8)	41,800 (73.9)	41,800 (77.9)	37,500 (80.6)					
12	58,400 (62.7)	41,800 (71.1)	41,050 (75.8)	36,450 (78.9)	29,900 (81)				
15	46,650 (56.1)	41,800 (66.8)	38,350 (72.6)	33,200 (76.3)	29,300 (78.8)	22,950 (80.8)			
20	26,250 (43.3)	26,700 (59.2)	25,100 (67.1)	24,450 (72)	23,350 (75.3)	20,750 (77.7)	18,050 (79.6)		
25	16,250 (25.3)	17,500 (50.7)	17,350 (61.4)	17,150 (67.5)	16,550 (71.6)	15,950 (74.6)	15,400 (76.9)	14,500 (78.8)	10,900 (80.3)
30		12,050 (40.7)	12,100 (55)	12,600 (62.8)	12,350 (67.8)	11,950 (71.4)	11,600 (74.2)	11,250 (76.4)	10,850 (78.2)
35		8,600 (27.4)	8,830 (48)	9,330 (57.7)	9,440 (63.9)	9,200 (68.2)	8,970 (71.4)	8,700 (73.9)	8,440 (76)
40			6,440 (39.7)	7,000 (52.3)	7,110 (59.7)	7,170 (64.8)	7,010 (68.5)	6,810 (71.4)	6,620 (73.8)
45			4,670 (29.3)	5,280 (46.1)	5,410 (55.3)	5,470 (61.2)	5,510 (65.6)	5,360 (68.9)	5,210 (71.6)
50			3,290 (13.1)	3,940 (39.3)	4,120 (50.4)	4,170 (57.4)	4,230 (62.5)	4,210 (66.3)	4,090 (69.3)
55				2,870 (30.7)	3,070 (45)	3,150 (53.4)	3,210 (59.2)	3,220 (63.6)	3,170 (67)
60				1,990 (18.9)	2,210 (39)	2,330 (49)	2,380 (55.8)	2,400 (60.6)	2,410 (64.7)
65					1,500 (31.6)	1,620 (44.2)	1,700 (52.1)	1,720 (57.6)	1,730 (62.1)
70					900 (22.2)	1,020 (38.9)	1,120 (48)	1,150 (54.4)	1,160 (59.3)
75						520 (32.4)	620 (43.6)	670 (50.9)	680 (56.5)
Min. boom angle for indicated length (no load)					21.2°	31.4°	42.6°	49.9°	55.5°
Max. boom length at 0° boom angle (no load)					67 ft.				

#RCL operating code. Refer to RCL manual for operating instructions.

NOTE: ( ) Boom angles are in degrees.

Boom Angle	Main Boom Length in Feet								
	31.4	43-A	55-B	67-C	79-D	91-E	103-F	115-G	127.3
0°	12,950 (27.5)	6,380 (39.2)	2,960 (51.2)	1,470 (63.2)					

NOTE: ( ) Reference radii in feet.

80137050

Note: Lifting over the main boom nose with the tele extension erected is strictly prohibited.

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RATED LIFTING CAPACITIES IN POUNDS
31 FT. - 55 FT. MANUAL TELE BOOM EXTENSION
WITH 4,000 LB. FIXED COUNTERWEIGHT
ON OUTRIGGERS 50% EXTENDED (16 FT. SPREAD) - 360°
31 FT. EXTENSION AT 0° OFFSET ANGLE

Radius in Feet	#0413 Main Boom Length in Feet		
	103-F	115-G	127.3
25	7,860 (80.1)		
30	7,710 (78.1)	6,530 (79.5)	4,870 (80.8)
35	7,300 (76.1)	6,520 (77.7)	4,850 (79.2)
40	6,540 (74.1)	6,270 (75.9)	4,820 (77.5)
45	5,210 (72)	4,900 (74)	4,620 (75.8)
50	4,080 (69.9)	3,810 (72.1)	3,550 (74.1)
55	3,160 (67.7)	2,910 (70.2)	2,680 (72.3)
60	2,400 (65.5)	2,160 (68.2)	1,950 (70.6)
65	1,750 (63.2)	1,530 (66.2)	1,330 (68.8)
70	1,170 (60.6)	990 (64.2)	800 (66.9)
75	680 (58)	520 (61.9)	
Min. boom angle for indicated length (no load)	57°	60.9°	65.9°
Max. boom length at 0° boom angle (no load)	43 ft.	43 ft.	43 ft.

#RCL operating code. Refer to RCL manual for operating instructions.
NOTE: ( ) Boom angles are in degrees. 80137051_31

BOOM EXTENSION CAPACITY NOTES:

1. 31 ft. and 55 ft. extension lengths may be used for single line lifting service only.
2. Radii listed are for boom extended to boom length column. For main boom lengths shorter than the shortest boom length column, the rated loads are determined by boom angles listed in the shortest boom length column. 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.
3. Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.
4. Capacities listed are with outriggers properly extended and vertical jacks set only.

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RATED LIFTING CAPACITIES IN POUNDS
31 FT. - 55 FT. MANUAL TELE BOOM EXTENSION
WITH 4,000 LB. FIXED COUNTERWEIGHT
ON OUTRIGGERS 50% EXTENDED (16 FT. SPREAD) - 360°
55 FT. EXTENSION AT 0° OFFSET ANGLE

Radius in Feet	#0414 Main Boom Length in Feet		
	103-F	115-G	127.3
30	4,040 (80.8)		
35	3,630 (79.1)	3,520 (80.3)	
40	3,270 (77.5)	3,370 (78.8)	2,520 (80)
45	2,960 (75.8)	3,080 (77.2)	2,520 (78.6)
50	2,690 (74)	2,810 (75.7)	2,520 (77.2)
55	2,460 (72.3)	2,580 (74.1)	2,510 (75.7)
60	2,270 (70.5)	2,390 (72.5)	2,480 (74.2)
65	2,100 (68.7)	2,210 (70.8)	2,040 (72.7)
70	1,950 (66.9)	1,750 (69.2)	1,520 (71.2)
75	1,480 (65)	1,290 (67.5)	1,070 (69.7)
80	1,050 (63)	880 (65.8)	670 (68.1)
85	680 (60.9)	500 (63.9)	
Min. boom angle for indicated length (no load)	59.9°	62.9°	67.1°
Max. boom length at 0° boom angle (no load)	43 ft.	43 ft.	43 ft.

#RCL operating code. Refer to RCL manual for operating instructions.
NOTE: ( ) Boom angles are in degrees. 80137051_55

BOOM EXTENSION CAPACITY NOTES:

1. 31 ft. and 55 ft. extension lengths may be used for single line lifting service only.
2. Radii listed are for boom extended to boom length column. For main boom lengths shorter than the shortest boom length column, the rated loads are determined by boom angles listed in the shortest boom length column. 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.
3. Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.
4. Capacities listed are with outriggers properly extended and vertical jacks set only.

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RATED LIFTING CAPACITIES IN POUNDS
31 FT. - 127 FT. BOOM
WITH 4,000 LB. FIXED COUNTERWEIGHT
ON OUTRIGGERS FULLY RETRACTED - 360°

Radius in Feet	#0801 or #0803 Main Boom Length in Feet					
	31.4	43-A	55-B	67-C	79-D	91-E
6	56,450 (74.6)	41,800 (79.4)				
8	36,050 (70.8)	32,950 (76.6)	29,450 (80)			
10	25,550 (66.8)	24,050 (73.9)	21,850 (77.9)	20,700 (80.6)		
12	19,050 (62.7)	18,400 (71.1)	16,900 (75.8)	16,250 (78.9)	15,250 (81)	
15	12,900 (56.1)	13,050 (66.8)	12,050 (72.6)	11,800 (76.3)	11,200 (78.8)	10,600 (80.8)
20	7,170 (43.3)	7,690 (59.2)	7,320 (67.1)	7,390 (72)	7,080 (75.3)	6,750 (77.7)
25	3,700 (25.3)	4,560 (50.7)	4,390 (61.4)	4,700 (67.5)	4,540 (71.6)	4,350 (74.6)
30		2,510 (40.7)	2,440 (55)	2,840 (62.8)	2,830 (67.8)	2,710 (71.4)
35		1,050 (27.4)	1,050 (48)	1,500 (57.7)	1,540 (63.9)	1,520 (68.2)
40					570 (59.7)	570 (64.8)
Min. boom angle for indicated length (no load)		26.4°	47°	56.7°	58.7°	63.8°
Max. boom length at 0° boom angle (no load)	31.4 ft.					

#RCL operating code. Refer to RCL manual for operating instructions.

NOTE: ( ) Boom angles are in degrees.

Boom Angle	Main Boom Length in Feet					
	31.4	43-A	55-B	67-C	79-D	91-E
0°	2,280 (27.5)					

NOTE: ( ) Reference radii in feet. 80137052

Note: Lifting over the main boom nose with the tele extension erected is strictly prohibited.