

Liftcrane Boom Capacities

New York City Code
Boom No. 82 or 22EL
184,600 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements

999 SERIES 2

LIFTING CAPACITIES: Lifting capacities for various boom lengths and operating radii are for freely suspended loads and do not exceed 75% of a static tipping load for boom lengths thru 250 Ft. and New York City criteria of 1.4 factor applied to total machine moment for boom lengths 260 Ft. on up. Capacities based on structural competence are denoted by an asterisk (*). Capacities indicated by (b) require 12,500 Lb. minimum weight.

Upper boom point capacity for liftcrane service with single part whip line is 29,500 Lbs. or 59,000 Lbs. with two part whip line. When boom butt mounted auxiliary drum is used, capacity with single part whip line is 20,000 Lbs. or 40,000 Lbs. with two part whip line. In all cases, upper boom point capacities cannot exceed those listed for main boom capacity.

250 Ft. thru 290 Ft. boom lengths require only the middle two sheaves in lower boom point. All other sheaves must be removed from lower boom point.

Note: 22L boom top **No. 196142** or **No. 417403** required for capacities greater than or equal to 462,500 Lbs.

Weight of jib, all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom and jib point sheaves, is considered part of main boom load. Boom is not to be lowered beyond radii where combined weights are greater than rated capacity. Where no capacity is shown, operation is not intended or approved.

OPERATING CONDITIONS: Machine to operate in a level position on a firm uniformly supporting surface with

gantry up. Refer to boom rigging **No. 195459** (No. 82) or **No. 195890** (No. 22EL) and Wire Rope Specification chart **No. 8223-A**. Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, travel, wind conditions, as well as adverse operating conditions and physical machine depreciation. Refer to operators manual for operating guidelines.

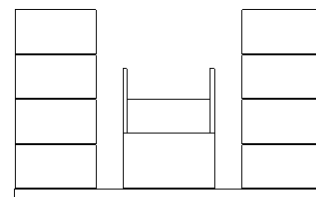
MACHINE TRAVEL: Machine to travel on a firm, level and uniformly supporting surface and boom within boom angle range shown in capacity chart. Refer to Maximum Allowable Travel Specification chart **No. 8225-A**.

OPERATING RADIUS: Operating radius is horizontal distance from axis of rotation to center of vertical hoist line or load block. Boom angle is angle between horizontal and centerline of boom butt and inserts, and is an indication of operating radius. In all cases, operating radius shall govern capacity.

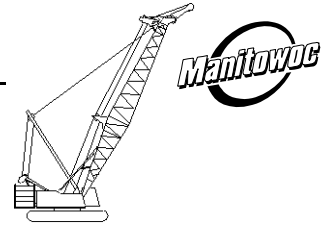
BOOM POINT ELEVATION: Boom point elevation is vertical distance from ground level to centerline of boom point shaft.

MACHINE EQUIPMENT: Machine equipped with 28 Ft. 2 in. crawlers, 48 in. treads, 10 Ft. 3 in. retractable gantry, 30 Ft. live mast, 20 part boom hoist reeving, boom support straps or four 1-3/8 in. boom pendants, 184,600 Lb. crane counterweight and two 22,000 Lb. carbody counterweights.

Deduct From Capacities When Jib Is Attached	
Jib Length	Jib No. 134
30 Ft.	2,700 Lbs.
40 Ft.	3,500 Lbs.
50 Ft.	4,300 Lbs.
60 Ft.	5,100 Lbs.
70 Ft.	6,100 Lbs.
80 Ft.	7,100 Lbs.



184,600 Lb. Crane Counterweight
8 Side Boxes - 1 Center Box



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Maximum Boom and Jib Lengths Lifted Unassisted			
Over End of Blocked Crawlers		Over Side of Crawlers	
Boom Length	Jib No. 134	Boom Length	Jib No. 134
(a) 290 Ft.	—	(a) 260 Ft.	—
280 Ft.	—	250 Ft.	—
270 Ft.	—	240 Ft.	—
260 Ft.	50 Ft.	230 Ft.	50 Ft.
250 Ft.	80 Ft.	220 Ft.	80 Ft.
Load block, hook and weight ball on ground at start. (a) Upper boom point cannot be used on 290 Ft. boom or over side of crawlers on 260 Ft. boom.			

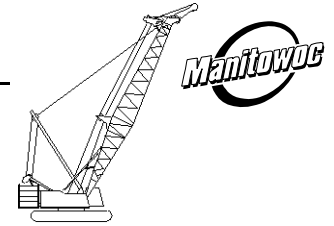
Consult jib chart for jib capacities. Upper boom point cannot be used when jib is attached.

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
70 Ft. BOOM			
16	82.8	77.2	470,100 *b ¹
17	82.0	77.1	444,600 *b
18	81.1	76.9	421,600 *b
19	80.3	76.7	400,900 *b
20	79.5	76.5	382,000 *b
22	77.8	76.0	349,000 *b
24	76.1	75.5	321,100 *b
26	74.4	74.9	297,100 *
28	72.7	74.2	275,300
30	70.9	73.5	246,300
32	69.2	72.7	222,700
34	67.4	71.8	202,900
36	65.6	70.9	186,200
38	63.7	69.8	171,900
40	61.9	68.7	159,500
42	60.0	67.5	148,600
44	58.0	66.2	139,000
46	56.0	64.8	130,400
48	54.0	63.4	122,800
50	51.9	61.7	115,900
55	46.3	57.1	101,300
60	40.1	51.4	89,600
65	32.9	44.2	80,000
70	23.7	34.1	71,900

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
80 Ft. BOOM			
17	83.0	87.2	443,900 *b
18	82.3	87.0	421,000 *b
19	81.5	86.9	400,200 *b
20	80.8	86.7	381,400 *b
22	79.3	86.3	348,400 *b
24	77.9	85.8	320,400 *b
26	76.4	85.3	296,500 *
28	74.9	84.7	275,600
30	73.4	84.1	246,600
32	71.9	83.4	222,800
34	70.4	82.7	203,000
36	68.8	81.9	186,300
38	67.3	81.0	171,900
40	65.7	80.0	159,500
42	64.1	79.0	148,600
44	62.4	78.0	139,000
46	60.8	76.8	130,400
48	59.1	75.6	122,800
50	57.4	74.3	115,900
55	52.9	70.6	101,300
60	48.2	66.2	89,600
65	43.0	61.0	80,000
70	37.3	54.8	72,000
75	30.6	46.9	65,200
80	22.0	36.0	59,300

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
19	82.5	97.0	399,800 *b
20	81.8	96.8	380,900 *b
22	80.5	96.5	347,900 *b
24	79.2	96.1	320,000 *b
26	77.9	95.6	296,100 *
28	76.6	95.1	275,400 *
30	75.3	94.6	246,800
32	74.0	94.0	223,000
34	72.6	93.3	203,200
36	71.3	92.6	186,400
38	69.9	91.8	172,000
40	68.6	91.0	159,600
42	67.2	90.1	148,600
44	65.8	89.2	139,000
46	64.3	88.2	130,400
48	62.9	87.2	122,800
50	61.4	86.0	115,900
55	57.7	82.9	101,300
60	53.8	79.3	89,600
65	49.6	75.2	80,000
70	45.2	70.4	72,000
75	40.4	64.7	65,200
80	35.0	57.9	59,400
85	28.7	49.4	54,300
90	20.7	37.7	49,800

¹ See note on page 1.



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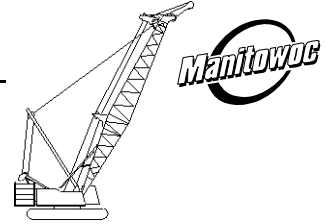
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Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
100 Ft. BOOM			
20	82.7	107.0	380,700 *b
22	81.5	106.6	347,700 *b
24	80.3	106.3	319,800 *b
26	79.2	105.9	295,900 *
28	78.0	105.4	275,200 *
30	76.8	104.9	247,000
32	75.6	104.4	223,200
34	74.4	103.8	203,400
36	73.2	103.2	186,600
38	72.0	102.5	172,200
40	70.8	101.8	159,700
42	69.6	101.0	148,800
44	68.3	100.2	139,100
46	67.1	99.3	130,500
48	65.8	98.4	122,900
50	64.6	97.4	116,000
55	61.3	94.7	101,400
60	57.9	91.6	89,700
65	54.4	88.1	80,100
70	50.8	84.1	72,100
75	46.9	79.5	65,300
80	42.7	74.3	59,500
85	38.2	68.1	54,500
90	33.1	60.8	50,000
95	27.2	51.7	46,000
100	19.5	39.4	42,500
110 Ft. BOOM			
22	82.3	116.8	347,100 *
24	81.2	116.4	319,300 *
26	80.2	116.1	295,300 *
28	79.1	115.7	274,600 *
30	78.0	115.2	247,100
32	77.0	114.7	223,200
34	75.9	114.2	203,300
36	74.8	113.6	186,500
38	73.7	113.0	172,100
40	72.6	112.4	159,600
42	71.5	111.7	148,600
44	70.4	110.9	139,000
46	69.3	110.2	130,400
48	68.2	109.3	122,700
50	67.0	108.5	115,800
55	64.1	106.1	101,200
60	61.2	103.4	89,500
65	58.1	100.3	79,900
70	55.0	96.8	71,900
75	51.7	93.0	65,100

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
80	48.2	88.6	59,300
85	44.5	83.6	54,200
90	40.6	77.9	49,800
95	36.3	71.4	45,900
100	31.5	63.6	42,400
105	25.8	54.0	39,200
110	18.6	40.9	36,300
120 Ft. BOOM			
22	82.9	126.9	324,500 *
24	82.0	126.6	318,900 *
26	81.0	126.2	295,000 *
28	80.0	125.9	274,300 *
30	79.1	125.5	247,100
32	78.1	125.0	223,200
34	77.1	124.5	203,300
36	76.1	124.0	186,500
38	75.1	123.5	172,000
40	74.1	122.9	159,500
42	73.1	122.2	148,600
44	72.1	121.6	138,900
46	71.1	120.9	130,300
48	70.1	120.1	122,600
50	69.1	119.3	115,700
55	66.5	117.2	101,100
60	63.8	114.7	89,400
65	61.1	112.0	79,800
70	58.3	109.0	71,800
75	55.4	105.6	65,000
80	52.4	101.8	59,200
85	49.3	97.5	54,100
90	46.0	92.8	49,700
95	42.5	87.5	45,800
100	38.7	81.4	42,300
105	34.6	74.4	39,200
110	30.0	66.2	36,300
115	24.7	56.1	33,700
120	17.7	42.4	31,300
130 Ft. BOOM			
24	82.6	136.7	295,000 *
26	81.7	136.4	294,700 *
28	80.8	136.0	274,000 *
30	79.9	135.7	247,200
32	79.0	135.3	223,300
34	78.1	134.8	203,400
36	77.2	134.3	186,500
38	76.3	133.8	172,100
40	75.4	133.3	159,500
42	74.5	132.7	148,600
44	73.5	132.1	138,900
46	72.6	131.5	130,300
48	71.7	130.8	122,600

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
50	70.7	130.1	115,600
55	68.4	128.1	101,000
60	66.0	125.9	89,300
65	63.5	123.4	79,700
70	61.0	120.7	71,700
75	58.4	117.6	64,900
80	55.8	114.3	59,100
85	53.0	110.6	54,100
90	50.2	106.5	49,600
95	47.2	101.9	45,700
100	44.0	96.8	42,200
105	40.7	91.2	39,100
110	37.1	84.8	36,300
115	33.2	77.4	33,700
120	28.8	68.7	31,400
125	23.6	58.1	29,200
130	17.0	43.8	27,200
140 Ft. BOOM			
26	82.3	146.5	294,400 *
28	81.5	146.2	273,600 *
30	80.6	145.8	247,200
32	79.8	145.5	223,300
34	79.0	145.1	203,300
36	78.1	144.6	186,400
38	77.3	144.1	171,900
40	76.4	143.6	159,400
42	75.6	143.1	148,400
44	74.7	142.5	138,700
46	73.9	141.9	130,100
48	73.0	141.3	122,400
50	72.2	140.7	115,500
55	70.0	138.9	100,800
60	67.8	136.8	89,100
65	65.5	134.6	79,500
70	63.3	132.1	71,500
75	60.9	129.3	64,700
80	58.5	126.3	58,900
85	56.1	123.0	53,800
90	53.5	119.3	49,400
95	50.9	115.3	45,500
100	48.2	110.9	42,000
105	45.3	106.1	38,900
110	42.3	100.7	36,100
115	39.1	94.7	33,600
120	35.7	87.9	31,200
125	31.9	80.2	29,100
130	27.7	71.2	27,100
135	22.7	60.1	25,300
140	16.3	45.2	23,600



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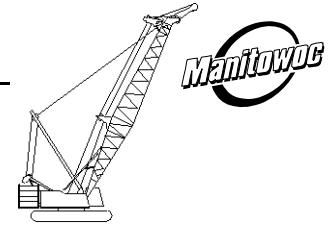
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150 Ft. BOOM			
26	82.8	156.6	265,500 *
28	82.0	156.3	261,400 *
30	81.3	156.0	247,100
32	80.5	155.6	223,200
34	79.7	155.3	203,200
36	78.9	154.8	186,200
38	78.2	154.4	171,700
40	77.4	153.9	159,200
42	76.6	153.5	148,200
44	75.8	152.9	138,500
46	75.0	152.4	129,800
48	74.2	151.8	122,100
50	73.4	151.2	115,200
55	71.4	149.5	100,500
60	69.4	147.6	88,700
65	67.3	145.6	79,100
70	65.2	143.3	71,100
75	63.0	140.8	64,300
80	60.9	138.0	58,500
85	58.6	135.0	53,400
90	56.3	131.7	49,000
95	54.0	128.1	45,100
100	51.6	124.2	41,600
105	49.1	119.9	38,500
110	46.4	115.2	35,700
115	43.7	110.1	33,200
120	40.8	104.4	30,800
125	37.7	98.1	28,700
130	34.4	91.0	26,700
135	30.8	82.9	24,900
140	26.7	73.5	23,300
145	21.9	62.0	21,700
150	15.7	46.5	20,200
160 Ft. BOOM			
28	82.5	166.4	236,000 *
30	81.8	166.1	236,000 *
32	81.1	165.8	223,000
34	80.4	165.4	203,000
36	79.6	165.1	186,100
38	78.9	164.6	171,600
40	78.2	164.2	159,000
42	77.4	163.7	148,000
44	76.7	163.3	138,200
46	76.0	162.7	129,600
48	75.2	162.2	121,900
50	74.5	161.6	114,900
55	72.6	160.1	100,200
60	70.7	158.3	88,500
65	68.8	156.4	78,800
70	66.8	154.3	70,800
75	64.9	152.0	64,000

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
160 Ft. BOOM			
80	62.9	149.4	58,200
85	60.8	146.7	53,100
90	58.7	143.6	48,700
95	56.6	140.4	44,800
100	54.4	136.8	41,300
105	52.1	133.0	38,200
110	49.8	128.8	35,400
115	47.4	124.3	32,900
120	44.9	119.3	30,500
125	42.2	113.9	28,400
130	39.4	108.0	26,500
135	36.5	101.4	24,700
140	33.3	94.0	23,000
145	29.8	85.6	21,500
150	25.8	75.7	20,000
155	21.2	63.8	18,600
160	15.2	47.8	17,300
170 Ft. BOOM			
28	83.0	176.5	232,700 *
30	82.3	176.2	228,400 *
32	81.6	175.9	222,900
34	80.9	175.6	202,900
36	80.3	175.2	186,000
38	79.6	174.9	171,400
40	78.9	174.4	158,800
42	78.2	174.0	147,800
44	77.5	173.6	138,100
46	76.8	173.1	129,400
48	76.1	172.6	121,700
50	75.4	172.0	114,700
55	73.7	170.6	100,000
60	71.9	168.9	88,200
65	70.1	167.1	78,600
70	68.3	165.2	70,600
75	66.4	163.0	63,800
80	64.6	160.6	58,000
85	62.7	158.1	52,900
90	60.8	155.3	48,500
95	58.8	152.3	44,600
100	56.8	149.1	41,100
105	54.7	145.6	38,000
110	52.6	141.8	35,200
115	50.4	137.7	32,600
120	48.2	133.3	30,300
125	45.9	128.5	28,200
130	43.4	123.3	26,200

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170 Ft. BOOM			
135	40.9	117.6	24,400
140	38.2	111.4	22,800
145	35.3	104.5	21,200
150	32.2	96.8	19,800
155	28.8	88.1	18,500
160	25.0	77.9	17,200
165	20.5	65.6	16,000
180 Ft. BOOM			
30	82.7	186.3	206,500 *
32	82.1	186.0	206,500 *
34	81.4	185.7	202,700
36	80.8	185.4	185,800
38	80.2	185.0	171,200
40	79.5	184.6	158,600
42	78.9	184.2	147,600
44	78.2	183.8	137,800
46	77.6	183.4	129,200
48	76.9	182.9	121,400
50	76.2	182.4	114,400
55	74.6	181.0	99,700
60	72.9	179.5	87,900
65	71.2	177.8	78,300
70	69.5	175.9	70,300
75	67.8	173.9	63,500
80	66.1	171.7	57,600
85	64.3	169.3	52,600
90	62.5	166.8	48,100
95	60.7	164.0	44,200
100	58.9	161.0	40,700
105	57.0	157.8	37,600
110	55.0	154.3	34,800
115	53.0	150.6	32,300
120	51.0	146.6	30,000
125	48.9	142.3	27,800
130	46.7	137.6	25,900
135	44.5	132.6	24,100
140	42.1	127.1	22,500
145	39.7	121.2	20,900
150	37.1	114.7	19,500
155	34.3	107.6	18,200
160	31.3	99.6	16,900
165	28.0	90.6	15,700
170	24.3	80.0	14,600
175	19.9	67.3	13,500



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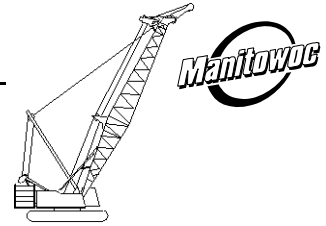
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190 Ft. BOOM			
32	82.5	196.2	196,800 *
34	81.9	195.9	193,600 *
36	81.3	195.5	185,600
38	80.7	195.2	171,000
40	80.1	194.8	158,400
42	79.4	194.4	147,300
44	78.8	194.0	137,600
46	78.2	193.6	128,900
48	77.6	193.2	121,100
50	77.0	192.7	114,200
55	75.4	191.4	99,400
60	73.9	189.9	87,600
65	72.3	188.4	77,900
70	70.7	186.6	69,900
75	69.1	184.7	63,100
80	67.4	182.7	57,200
85	65.8	180.4	52,100
90	64.1	178.0	47,700
95	62.4	175.4	43,800
100	60.7	172.6	40,300
105	58.9	169.6	37,200
110	57.1	166.4	34,400
115	55.3	163.0	31,800
120	53.4	159.3	29,500
125	51.5	155.4	27,400
130	49.5	151.2	25,500
135	47.5	146.7	23,700
140	45.4	141.8	22,000
145	43.2	136.5	20,500
150	40.9	130.9	19,000
155	38.5	124.7	17,700
160	36.0	118.0	16,500
165	33.3	110.6	15,300
170	30.4	102.3	14,200
175	27.2	93.0	13,100
180	23.6	82.1	12,100
185	19.4	68.9	11,200

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
200 Ft. BOOM			
32	82.9	206.3	177,000 *
34	82.3	206.0	177,000 *
36	81.7	205.7	177,000 *
38	81.1	205.3	170,800
40	80.6	205.0	158,100
42	80.0	204.6	147,100
44	79.4	204.2	137,300
46	78.8	203.8	128,600
48	78.2	203.4	120,800
50	77.6	203.0	113,800
55	76.2	201.7	99,100
60	74.7	200.4	87,300
65	73.2	198.9	77,600
70	71.7	197.2	69,500
75	70.2	195.4	62,700
80	68.6	193.5	56,800
85	67.1	191.4	51,800
90	65.5	189.1	47,300
95	63.9	186.7	43,400
100	62.3	184.1	39,900
105	60.6	181.3	36,800
110	59.0	178.3	34,000
115	57.3	175.1	31,400
120	55.5	171.7	29,100
125	53.8	168.1	27,000
130	52.0	164.2	25,100
135	50.1	160.1	23,300
140	48.2	155.6	21,600
145	46.2	150.9	20,100
150	44.2	145.8	18,700
155	42.1	140.4	17,300
160	39.8	134.5	16,100
165	37.5	128.1	14,900
170	35.1	121.1	13,800
175	32.4	113.4	12,800
180	29.6	104.9	11,800
185	26.5	95.3	10,900
190	23.0	84.1	10,000
195	18.9	70.6	9,100

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
210 Ft. BOOM			
34	82.7	216.1	171,300 *
36	82.1	215.8	169,200 *
38	81.6	215.5	166,900 *
40	81.0	215.1	157,900
42	80.5	214.8	146,800
44	79.9	214.4	137,000
46	79.4	214.0	128,400
48	78.8	213.6	120,600
50	78.2	213.2	113,600
55	76.8	212.0	98,800
60	75.4	210.8	87,000
65	74.0	209.3	77,300
70	72.6	207.8	69,200
75	71.1	206.1	62,400
80	69.7	204.2	56,500
85	68.2	202.2	51,500
90	66.7	200.1	47,000
95	65.2	197.8	43,100
100	63.7	195.4	39,600
105	62.2	192.7	36,500
110	60.6	189.9	33,700
115	59.0	187.0	31,100
120	57.4	183.8	28,800
125	55.8	180.4	26,700
130	54.1	176.8	24,700
135	52.4	173.0	22,900
140	50.6	168.9	21,300
145	48.8	164.6	19,800
150	46.9	160.0	18,300
155	45.0	155.1	17,000
160	43.0	149.8	15,800
165	41.0	144.1	14,600
170	38.8	138.0	13,500
175	36.6	131.4	12,500
180	34.2	124.2	11,500
185	31.6	116.3	10,600
190	28.9	107.5	9,700
195	25.8	97.5	8,900
200	22.4	86.0	8,100
205	18.4	72.1	7,300



Liftcrane Boom Capacities

Meets
ANSI B30.5
Requirements

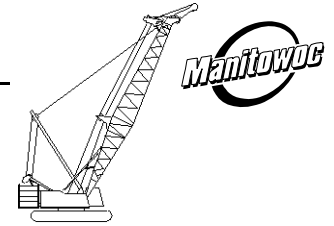
New York City Code
Boom No. 82 or 22EL
184,600 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

999 SERIES 2

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
220 Ft. BOOM			
34	83.0	226.2	155,100 *
36	82.5	225.9	154,700 *
38	82.0	225.6	154,300 *
40	81.4	225.3	153,800 *
42	80.9	224.9	146,500
44	80.4	224.6	136,800
46	79.8	224.2	128,100
48	79.3	223.8	120,300
50	78.8	223.4	113,300
55	77.5	222.3	98,500
60	76.1	221.1	86,600
65	74.8	219.7	76,900
70	73.4	218.3	68,900
75	72.0	216.6	62,000
80	70.7	214.9	56,200
85	69.3	213.0	51,100
90	67.9	211.0	46,600
95	66.4	208.8	42,700
100	65.0	206.5	39,200
105	63.6	204.0	36,100
110	62.1	201.4	33,300
115	60.6	198.6	30,700
120	59.1	195.6	28,400
125	57.5	192.5	26,300
130	56.0	189.1	24,300
135	54.4	185.6	22,500
140	52.7	181.8	20,900
145	51.1	177.8	19,400
150	49.4	173.5	17,900
155	47.6	169.0	16,600
160	45.8	164.2	15,400
165	43.9	159.1	14,200
170	42.0	153.6	13,100
175	40.0	147.7	12,100
180	37.9	141.4	11,100
185	35.7	134.6	10,200
190	33.4	127.1	9,300
195	30.9	119.0	8,500
200	28.2	110.0	7,700
205	25.2	99.7	7,000
210	21.9	87.9	6,200
215	17.9	73.7	5,500 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
230 Ft. BOOM			
36	82.8	236.0	139,300 *
38	82.3	235.7	138,800 *
40	81.8	235.4	138,400 *
42	81.3	235.1	138,000 *
44	80.8	234.7	136,500
46	80.3	234.4	127,700
48	79.8	234.0	119,900
50	79.3	233.6	112,900
55	78.0	232.6	98,100
60	76.7	231.4	86,200
65	75.4	230.1	76,500
70	74.1	228.7	68,400
75	72.8	227.2	61,600
80	71.5	225.5	55,700
85	70.2	223.7	50,600
90	68.9	221.8	46,200
95	67.5	219.7	42,200
100	66.2	217.5	38,700
105	64.8	215.2	35,600
110	63.4	212.7	32,800
115	62.0	210.1	30,200
120	60.6	207.3	27,900
125	59.1	204.3	25,800
130	57.6	201.1	23,800
135	56.1	197.8	22,000
140	54.6	194.3	20,400
145	53.1	190.6	18,900
150	51.5	186.6	17,400
155	49.9	182.4	16,100
160	48.2	178.0	14,900
165	46.5	173.3	13,700
170	44.7	168.3	12,600
175	42.9	163.0	11,600
180	41.0	157.3	10,600
185	39.1	151.3	9,700
190	37.0	144.7	8,800
195	34.9	137.7	8,000
200	32.6	130.1	7,200
205	30.2	121.7	6,500
210	27.5	112.4	5,800
215	24.6	101.9	5,100
220	21.4	89.8	4,400

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
240 Ft. BOOM			
38	82.6	245.8	126,300 *
40	82.2	245.5	125,900 *
42	81.7	245.2	125,500 *
44	81.2	244.9	125,100 *
46	80.7	244.6	124,600 *
48	80.2	244.2	119,600
50	79.7	243.8	112,600
55	78.5	242.8	97,700
60	77.3	241.7	85,900
65	76.1	240.5	76,100
70	74.8	239.1	68,000
75	73.6	237.6	61,200
80	72.3	236.1	55,300
85	71.1	234.4	50,200
90	69.8	232.5	45,700
95	68.5	230.6	41,800
100	67.2	228.5	38,300
105	65.9	226.3	35,200
110	64.6	223.9	32,400
115	63.3	221.4	29,800
120	61.9	218.7	27,500
125	60.5	215.9	25,400
130	59.2	213.0	23,400
135	57.7	209.8	21,600
140	56.3	206.5	20,000
145	54.9	203.0	18,400
150	53.4	199.3	17,000
155	51.9	195.4	15,700
160	50.3	191.3	14,400
165	48.7	187.0	13,300
170	47.1	182.4	12,200
175	45.4	177.5	11,200
180	43.7	172.3	10,200
185	41.9	166.8	9,300
190	40.1	161.0	8,400
195	38.2	154.7	7,600
200	36.2	148.0	6,800
205	34.1	140.8	6,100
210	31.9	132.9	5,400
215	29.5	124.3	4,700
220	26.9	114.7	4,000



Liftcrane Boom Capacities

New York City Code
Boom No. 82 or 22EL
184,600 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements

999 SERIES 2

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
250 Ft. BOOM			
38	82.9	255.9	114,500 *
40	82.5	255.6	114,100 *
42	82.0	255.3	113,800 *
44	81.5	255.0	113,400 *
46	81.1	254.7	113,000 *
48	80.6	254.4	112,600 *
50	80.1	254.0	112,200 *
55	79.0	253.0	98,100
60	77.8	252.0	86,200
65	76.6	250.8	76,500
70	75.4	249.5	68,400
75	74.3	248.1	61,500
80	73.1	246.6	55,700
85	71.9	244.9	50,600
90	70.6	243.2	46,100
95	69.4	241.3	42,200
100	68.2	239.3	38,700
105	66.9	237.2	35,500
110	65.7	235.0	32,700
115	64.4	232.6	30,100
120	63.1	230.1	27,800
125	61.8	227.4	25,700
130	60.5	224.6	23,800
135	59.2	221.6	22,000
140	57.8	218.5	20,300
145	56.5	215.2	18,800
150	55.1	211.7	17,300
155	53.6	208.1	16,000
160	52.2	204.2	14,800
165	50.7	200.2	13,600
170	49.2	195.9	12,500
175	47.7	191.4	11,500
180	46.1	186.6	10,500
185	44.5	181.6	9,600
190	42.8	176.2	8,800
195	41.1	170.6	7,900
200	39.3	164.5	7,200
205	37.4	158.1	6,400
210	35.4	151.2	5,700
215	33.4	143.7	5,000
220	31.2	135.7	4,400
260 Ft. BOOM			
40	82.8	265.7	104,300 *
42	82.3	265.4	103,900 *
44	81.9	265.1	103,600 *
46	81.4	264.8	103,200 *
48	81.0	264.5	102,800 *
50	80.5	264.2	99,800
55	79.4	263.2	85,600
60	78.3	262.2	74,200
65	77.2	261.1	64,900
70	76.0	259.8	57,100
75	74.9	258.5	50,600

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
260 Ft. BOOM			
80	73.7	257.0	45,000
85	72.6	255.5	40,100
90	71.4	253.8	35,800
95	70.2	252.0	32,100
100	69.1	250.1	28,700
105	67.9	248.1	25,700
110	66.7	245.9	23,000
115	65.5	243.7	20,600
120	64.2	241.3	18,300
125	63.0	238.7	16,300
130	61.8	236.1	14,500
135	60.5	233.2	12,700
140	59.2	230.3	11,200
145	57.9	227.2	9,700
150	56.6	223.9	8,300
155	55.3	220.4	7,100
160	53.9	216.8	5,900
165	52.5	213.0	4,800
270 Ft. BOOM			
40	83.0	275.8	95,100 *
42	82.6	275.5	94,800 *
44	82.2	275.2	94,400 *
46	81.7	274.9	94,100 *
48	81.3	274.6	93,700 *
50	80.9	274.3	93,300 *
55	79.8	273.4	85,000
60	78.7	272.4	73,600
65	77.6	271.3	64,300
70	76.5	270.1	56,500
75	75.5	268.8	49,900
80	74.4	267.5	44,300
85	73.2	266.0	39,400
90	72.1	264.4	35,200
95	71.0	262.6	31,400
100	69.9	260.8	28,000
105	68.7	258.9	25,000
110	67.6	256.8	22,300
115	66.4	254.7	19,900
120	65.3	252.4	17,600
125	64.1	249.9	15,600
130	62.9	247.4	13,700
135	61.7	244.7	12,000
140	60.5	241.9	10,400
145	59.2	238.9	9,000
150	58.0	235.8	7,600
155	56.7	232.6	6,300
160	55.4	229.2	5,100
165	54.1	225.6	4,000

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
280 Ft. BOOM			
42	82.9	285.6	85,800 *
44	82.5	285.3	85,500 *
46	82.0	285.1	85,200 *
48	81.6	284.8	84,800 *
50	81.2	284.4	84,500 *
55	80.2	283.6	83,600 *
60	79.1	282.6	73,000
65	78.1	281.6	63,700
70	77.0	280.4	55,900
75	76.0	279.2	49,400
80	74.9	277.8	43,700
85	73.9	276.4	38,800
90	72.8	274.9	34,500
95	71.7	273.2	30,800
100	70.6	271.5	27,400
105	69.5	269.6	24,400
110	68.4	267.6	21,700
115	67.3	265.6	19,200
120	66.2	263.4	17,000
125	65.1	261.1	15,000
130	63.9	258.6	13,100
135	62.8	256.1	11,400
140	61.6	253.4	9,800
145	60.5	250.6	8,300
150	59.3	247.6	7,000
155	58.1	244.5	5,700
160	56.8	241.3	4,500
290 Ft. BOOM			
44	82.7	295.4	78,200 *
46	82.3	295.2	77,900 *
48	81.9	294.9	77,600 *
50	81.5	294.6	77,200 *
55	80.5	293.7	76,400 *
60	79.5	292.8	72,500
65	78.5	291.8	63,200
70	77.5	290.7	55,400
75	76.5	289.5	48,800
80	75.5	288.2	43,200
85	74.4	286.8	38,300
90	73.4	285.3	34,000
95	72.4	283.8	30,200
100	71.3	282.1	26,900
105	70.3	280.3	23,800
110	69.2	278.4	21,100
115	68.2	276.4	18,700
120	67.1	274.3	16,500
125	66.0	272.1	14,400
130	64.9	269.8	12,600
135	63.8	267.3	10,800
140	62.7	264.7	9,200
145	61.6	262.0	7,800
150	60.4	259.2	6,400
155	59.3	256.3	5,100