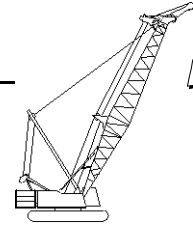




Liftcrane Boom Capacities

Boom No. 82 or 22EL
67 860 kg Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements



999 SERIES 1

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. Capacities based on structural competence are denoted by an asterisk (*). Capacities indicated by (b) require 5 670 kg minimum weight.

Upper boom point capacity for liftcrane service with single part whip line is 13 380 kg or 26 760 kg with two part whip line. When boom butt mounted auxiliary drum is used, capacity with single part whip line is 9 070 kg or 18 140 kg with two part whip line. In all cases, upper boom point capacities cannot exceed those listed for main boom capacity.

76.2m boom length requires only the middle two sheaves in lower boom point. All other sheaves must be removed from lower boom point.

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.

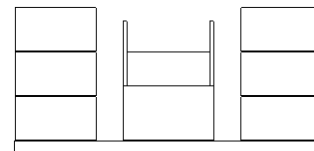
MACHINE TRAVEL: Machine to travel on a firm, level and uniformly supporting surface and boom within boom angle range shown in capacity chart. Refer to Maximum Allowable Travel Specification chart **No. 8225-A**.

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 8 585 mm crawlers, 1 219 mm treads, 3 124 mm retractable gantry, 9 144 mm live mast, 20 part boom hoist reeving, boom support straps or four 35 mm boom pendants and 67 860 kg counterweight.

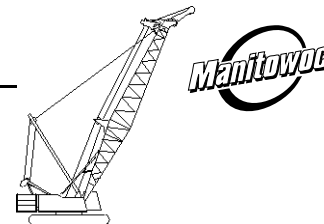
Deduct From Capacities When Jib Is Attached	
Jib Length	Jib No. 134
9.1m	1 220 kg
12.2m	1 590 kg
15.2m	1 950 kg
18.3m	2 310 kg
21.3m	2 770 kg
24.4m	3 220 kg



67 860 kg Crane Counterweight
6 Side Boxes - 1 Center Box

Boom Catwalks Deduct

Deduct 300 kg from capacities
when boom catwalks are attached.



Liftcrane Boom Capacities

Boom No. 82 or 22EL
67 860 kg Counterweight
360 Degree Rating

Meets
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Requirements

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WITHOUT BOOM CATWALKS			
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) 76.2m	—	67.1m	—
73.2m	—	64.0m	—
70.1m	—	61.0m	12.2m
67.1m	18.3m	57.9m	21.3m
64.0m	24.4m	54.9m	24.4m
Load block, hook and weight ball on ground at start.			
(a) Upper boom point cannot be used on 76.2m boom.			

Consult jib chart for jib capacities.

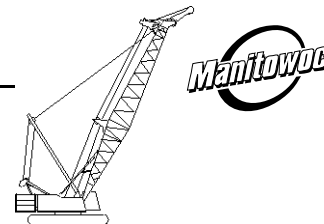
Upper boom point cannot be used when jib is attached.

WITH BOOM CATWALKS			
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) 76.2m	—	67.1m	—
(b) 73.2m	—	64.0m	—
70.1m	—	61.0m	12.2m
67.1m	15.2m	57.9m	21.3m
64.0m	24.4m	54.9m	24.4m
Load block, hook and weight ball on ground at start.			
(a) Upper boom point cannot be used on 76.2m boom.			
(b) Machine must be equipped with lowerworks jacking cylinders.			

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
21.3m (70 Ft.) BOOM			
4.9	82.8	23.5	204 600 *b
5.0	82.5	23.5	200 100 *b
5.5	81.1	23.4	183 100 *b
6.0	79.7	23.3	168 700 *b
7.0	77.0	23.1	142 300 b
8.0	74.2	22.8	111 400
9.0	71.3	22.5	91 600
10.0	68.4	22.1	77 500
11.0	65.5	21.6	67 000
12.0	62.5	21.1	58 700
13.0	59.3	20.5	52 200
14.0	56.1	19.8	46 800
15.0	52.7	19.0	42 300
16.0	49.1	18.1	38 500
18.0	41.3	16.0	32 400
20.0	31.9	13.2	27 700

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	193 100 *b
5.5	82.2	26.5	182 700 *b
6.0	81.0	26.4	168 400 *b
7.0	78.6	26.2	142 200 b
8.0	76.2	26.0	111 600
9.0	73.8	25.7	91 700
10.0	71.3	25.3	77 600
11.0	68.8	24.9	67 000
12.0	66.2	24.5	58 700
13.0	63.5	24.0	52 200
14.0	60.9	23.4	46 800
15.0	58.1	22.8	42 300
16.0	55.2	22.1	38 500
18.0	49.1	20.4	32 400
20.0	42.4	18.4	27 700
22.0	34.5	15.7	24 000
24.0	24.5	11.9	21 000

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	173 900 *b
6.0	82.0	29.5	168 300 *b
7.0	79.9	29.3	142 200 b
8.0	77.8	29.1	111 700
9.0	75.6	28.9	91 800
10.0	73.4	28.6	77 700
11.0	71.2	28.2	67 100
12.0	69.0	27.8	58 800
13.0	66.7	27.4	52 200
14.0	64.4	26.9	46 800
15.0	62.0	26.4	42 300
16.0	59.6	25.8	38 500
18.0	54.5	24.4	32 400
20.0	49.1	22.7	27 700
22.0	43.2	20.7	24 000
24.0	36.4	18.2	21 000
26.0	28.3	14.9	18 500



Liftcrane Boom Capacities

Boom No. 82 or 22EL
67 860 kg Counterweight
360 Degree Rating

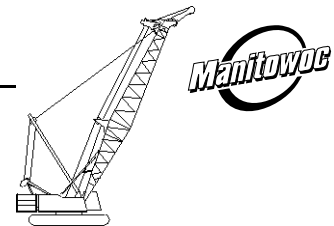
**Meets
ANSI B30.5
Requirements**

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Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	165 600 *b
7.0	80.9	32.5	142 200 b
8.0	79.0	32.3	111 900
9.0	77.1	32.0	91 900
10.0	75.1	31.7	77 700
11.0	73.2	31.4	67 100
12.0	71.2	31.1	58 800
13.0	69.2	30.7	52 200
14.0	67.1	30.3	46 800
15.0	65.1	29.8	42 300
16.0	62.9	29.3	38 500
18.0	58.6	28.1	32 400
20.0	54.0	26.7	27 800
22.0	49.1	25.0	24 100
24.0	43.8	23.1	21 100
26.0	37.9	20.6	18 600
28.0	31.0	17.6	16 500
30.0	22.2	13.4	14 600
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	151 000 *
7.0	81.8	35.5	141 400
8.0	80.0	35.4	111 900
9.0	78.3	35.2	92 000
10.0	76.5	34.9	77 700
11.0	74.8	34.6	67 100
12.0	73.0	34.3	58 800
13.0	71.2	34.0	52 200
14.0	69.3	33.6	46 800
15.0	67.5	33.2	42 200
16.0	65.6	32.7	38 400
18.0	61.7	31.7	32 300
20.0	57.7	30.4	27 700
22.0	53.5	29.0	24 000
24.0	49.1	27.3	21 000
26.0	44.3	25.4	18 500
28.0	39.0	23.0	16 400
30.0	33.1	20.2	14 600
32.0	25.8	16.5	13 000
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	147 100 *
7.0	82.5	38.6	139 400
8.0	80.9	38.5	112 000
9.0	79.3	38.3	92 000
10.0	77.7	38.0	77 700
11.0	76.1	37.8	67 100
12.0	74.4	37.5	58 800
13.0	72.8	37.2	52 100
14.0	71.1	36.8	46 700
15.0	69.5	36.5	42 200

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
36.6m (120 Ft.) BOOM			
16.0	67.8	36.1	38 300
18.0	64.3	35.1	32 300
20.0	60.7	34.0	27 600
22.0	57.0	32.8	23 900
24.0	53.2	31.3	20 900
26.0	49.1	29.6	18 400
28.0	44.7	27.7	16 400
30.0	40.0	25.4	14 500
32.0	34.7	22.7	13 000
34.0	28.5	19.3	11 700
36.0	20.6	14.7	10 400
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	131 300
8.0	81.6	41.6	112 100
9.0	80.1	41.4	92 000
10.0	78.6	41.2	77 800
11.0	77.2	40.9	67 100
12.0	75.7	40.7	58 800
13.0	74.2	40.4	52 100
14.0	72.6	40.1	46 700
15.0	71.1	39.7	42 200
16.0	69.6	39.4	38 400
18.0	66.4	38.5	32 300
20.0	63.2	37.5	27 600
22.0	59.9	36.4	23 900
24.0	56.4	35.1	20 900
26.0	52.8	33.6	18 400
28.0	49.1	31.9	16 300
30.0	45.1	30.0	14 500
32.0	40.7	27.8	13 000
34.0	36.0	25.2	11 600
36.0	30.5	22.0	10 400
38.0	24.0	18.0	9 400
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	114 000
8.0	82.2	44.6	112 300
9.0	80.8	44.5	92 000
10.0	79.5	44.3	77 700
11.0	78.1	44.1	67 100
12.0	76.7	43.8	58 700
13.0	75.3	43.6	52 100
14.0	73.9	43.3	46 600
15.0	72.5	43.0	42 100
16.0	71.1	42.6	38 300
18.0	68.2	41.8	32 200
20.0	65.3	40.9	27 400
22.0	62.2	39.9	23 800
24.0	59.1	38.7	20 800
26.0	55.9	37.4	18 300

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
42.7m (140 Ft.) BOOM			
28.0	52.6	35.9	16 200
30.0	49.1	34.2	14 400
32.0	45.4	32.3	12 900
34.0	41.4	30.1	11 500
36.0	37.0	27.6	10 400
38.0	32.2	24.6	9 300
40.0	26.6	20.9	8 400
42.0	19.4	16.0	7 500
45.7m (150 Ft.) BOOM			
7.9	82.8	47.7	114 000
8.0	82.7	47.7	112 400
9.0	81.4	47.6	92 000
10.0	80.2	47.4	77 700
11.0	78.9	47.2	67 000
12.0	77.6	47.0	58 600
13.0	76.3	46.7	51 900
14.0	75.0	46.4	46 500
15.0	73.7	46.2	42 000
16.0	72.4	45.8	38 100
18.0	69.7	45.1	32 000
20.0	67.0	44.3	27 300
22.0	64.3	43.3	23 600
24.0	61.4	42.3	20 600
26.0	58.5	41.1	18 100
28.0	55.5	39.7	16 000
30.0	52.3	38.2	14 300
32.0	49.1	36.5	12 700
34.0	45.6	34.6	11 400
36.0	41.9	32.5	10 200
38.0	37.9	30.0	9 100
40.0	33.6	27.2	8 200
42.0	28.6	23.7	7 300
44.0	22.6	19.4	6 600



Liftcrane Boom Capacities

Boom No. 82 or 22EL
67 860 kg Counterweight
360 Degree Rating

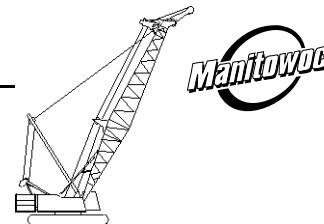
Meets
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Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
48.8m (160 Ft.) BOOM			
8.5	82.5	50.7	100 500
9.0	82.0	50.7	92 200
10.0	80.8	50.5	77 600
11.0	79.6	50.3	66 900
12.0	78.4	50.1	58 500
13.0	77.2	49.9	51 800
14.0	76.0	49.6	46 400
15.0	74.8	49.3	41 900
16.0	73.5	49.0	38 000
18.0	71.1	48.4	31 900
20.0	68.5	47.6	27 200
22.0	66.0	46.7	23 500
24.0	63.4	45.7	20 500
26.0	60.7	44.6	18 000
28.0	57.9	43.4	15 900
30.0	55.1	42.1	14 100
32.0	52.1	40.5	12 600
34.0	49.1	38.8	11 200
36.0	45.8	37.0	10 100
38.0	42.4	34.8	9 000
40.0	38.7	32.4	8 100
42.0	34.7	29.7	7 200
44.0	30.2	26.4	6 400
46.0	25.0	22.5	5 800
48.0	18.5	17.3	5 100
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	100 500
9.0	82.5	53.7	92 200
10.0	81.3	53.6	77 600
11.0	80.2	53.4	66 800
12.0	79.1	53.2	58 500
13.0	78.0	53.0	51 800
14.0	76.8	52.8	46 300
15.0	75.7	52.5	41 800
16.0	74.5	52.2	37 900
18.0	72.2	51.6	31 800
20.0	69.9	50.9	27 100
22.0	67.5	50.1	23 300
24.0	65.1	49.2	20 400
26.0	62.6	48.1	17 900
28.0	60.0	47.0	15 800
30.0	57.4	45.8	14 000
32.0	54.7	44.4	12 500
34.0	52.0	42.8	11 100
36.0	49.1	41.1	9 900

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
51.8m (170 Ft.) BOOM			
38.0	46.0	39.3	8 900
40.0	42.8	37.2	7 900
42.0	39.4	34.8	7 100
44.0	35.7	32.1	6 300
46.0	31.6	29.1	5 700
48.0	27.0	25.4	5 000
50.0	21.5	20.8	4 400
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	89 500
10.0	81.8	56.7	77 500
11.0	80.8	56.5	66 700
12.0	79.7	56.3	58 400
13.0	78.6	56.1	51 700
14.0	77.6	55.9	46 200
15.0	76.5	55.6	41 700
16.0	75.4	55.4	37 800
18.0	73.2	54.8	31 600
20.0	71.0	54.1	26 900
22.0	68.8	53.4	23 200
24.0	66.5	52.5	20 200
26.0	64.2	51.6	17 700
28.0	61.9	50.5	15 600
30.0	59.5	49.4	13 800
32.0	57.0	48.1	12 300
34.0	54.4	46.7	11 000
36.0	51.8	45.1	9 800
38.0	49.0	43.4	8 800
40.0	46.2	41.6	7 800
42.0	43.2	39.5	7 000
44.0	40.0	37.2	6 200
46.0	36.6	34.6	5 500
48.0	32.8	31.6	4 900
50.0	28.6	28.2	4 300
52.0	23.8	24.0	3 700
57.9m (190 Ft.) BOOM			
9.8	82.5	59.8	80 600
10.0	82.3	59.8	77 600
11.0	81.3	59.6	66 700
12.0	80.3	59.4	58 300
13.0	79.2	59.2	51 600
14.0	78.2	59.0	46 100
15.0	77.2	58.8	41 500
16.0	76.2	58.5	37 600
18.0	74.2	58.0	31 500
20.0	72.1	57.3	26 800
22.0	70.0	56.6	23 000
24.0	67.8	55.8	20 000
26.0	65.7	54.9	17 500
28.0	63.5	54.0	15 400

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
57.9m (190 Ft.) BOOM			
30.0	61.2	52.9	13 600
32.0	58.9	51.7	12 100
34.0	56.6	50.4	10 800
36.0	54.1	49.0	9 600
38.0	51.6	47.4	8 500
40.0	49.0	45.7	7 600
42.0	46.3	43.9	6 800
44.0	43.5	41.8	6 000
46.0	40.5	39.6	5 300
48.0	37.3	37.0	4 700
50.0	33.9	34.2	4 100
52.0	30.0	30.9	3 500
54.0	25.7	27.0	3 000
56.0	20.5	22.1	2 600
61.0m (200 Ft.) BOOM			
9.8	82.9	62.9	80 200 *
10.0	82.7	62.8	77 400
11.0	81.7	62.7	66 600
12.0	80.7	62.5	58 200
13.0	79.8	62.3	51 400
14.0	78.8	62.1	46 000
15.0	77.9	61.9	41 400
16.0	76.9	61.7	37 500
18.0	75.0	61.2	31 300
20.0	73.0	60.6	26 600
22.0	71.0	59.9	22 900
24.0	69.0	59.1	19 900
26.0	67.0	58.3	17 400
28.0	64.9	57.4	15 300
30.0	62.8	56.4	13 500
32.0	60.7	55.3	11 900
34.0	58.5	54.1	10 600
36.0	56.2	52.7	9 400
38.0	53.9	51.3	8 300
40.0	51.5	49.7	7 400
42.0	49.0	48.0	6 600
44.0	46.5	46.2	5 800
46.0	43.8	44.2	5 100
48.0	41.0	41.9	4 500
50.0	38.0	39.4	3 900
52.0	34.8	36.6	3 400
54.0	31.2	33.5	2 900
56.0	27.3	29.8	2 400



Liftcrane Boom Capacities

Boom No. 82 or 22EL
67 860 kg Counterweight
360 Degree Rating

**Meets
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Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
64.0m (210 Ft.) BOOM			
10.4	82.7	65.9	73 000
11.0	82.1	65.8	66 500
12.0	81.2	65.6	58 000
13.0	80.3	65.4	51 300
14.0	79.4	65.2	45 900
15.0	78.5	65.0	41 300
16.0	77.5	64.8	37 400
18.0	75.7	64.3	31 200
20.0	73.8	63.7	26 500
22.0	72.0	63.1	22 700
24.0	70.1	62.4	19 700
26.0	68.1	61.6	17 200
28.0	66.2	60.7	15 100
30.0	64.2	59.8	13 300
32.0	62.2	58.8	11 800
34.0	60.1	57.6	10 400
36.0	58.0	56.4	9 200
38.0	55.9	55.1	8 200
40.0	53.7	53.6	7 300
42.0	51.4	52.0	6 400
44.0	49.0	50.3	5 700
46.0	46.6	48.5	5 000
48.0	44.1	46.5	4 300
50.0	41.4	44.3	3 800
52.0	38.6	41.8	3 200
54.0	35.6	39.1	2 700
56.0	32.3	36.1	2 300
67.1m (220 Ft.) BOOM			
10.4	83.0	68.9	70 300 *
11.0	82.5	68.8	66 400
12.0	81.6	68.7	58 000
13.0	80.7	68.5	51 200
14.0	79.9	68.3	45 700
15.0	79.0	68.2	41 100
16.0	78.1	67.9	37 200
18.0	76.4	67.5	31 000
20.0	74.6	66.9	26 300
22.0	72.8	66.3	22 600
24.0	71.0	65.6	19 500
26.0	69.2	64.9	17 000
28.0	67.3	64.1	14 900
30.0	65.5	63.2	13 100
32.0	63.6	62.2	11 600
34.0	61.6	61.1	10 300
36.0	59.6	60.0	9 100
38.0	57.6	58.7	8 000
40.0	55.6	57.4	7 100
42.0	53.5	55.9	6 300

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
67.1m (220 Ft.) BOOM			
44.0	51.3	54.4	5 500
46.0	49.0	52.6	4 800
48.0	46.7	50.8	4 200
50.0	44.3	48.8	3 600
52.0	41.8	46.6	3 000
54.0	39.1	44.2	2 600
56.0	36.3	41.6	2 100
70.1m (230 Ft.) BOOM			
11.0	82.8	71.9	63 100 *
12.0	82.0	71.8	58 200
13.0	81.1	71.6	51 100
14.0	80.3	71.4	45 500
15.0	79.5	71.3	41 000
16.0	78.6	71.1	37 100
18.0	77.0	70.6	30 900
20.0	75.3	70.1	26 100
22.0	73.6	69.5	22 400
24.0	71.9	68.9	19 300
26.0	70.1	68.2	16 900
28.0	68.4	67.4	14 700
30.0	66.6	66.5	12 900
32.0	64.8	65.6	11 400
34.0	63.0	64.6	10 000
36.0	61.1	63.5	8 800
38.0	59.2	62.3	7 800
40.0	57.3	61.1	6 900
42.0	55.3	59.7	6 000
44.0	53.3	58.2	5 300
46.0	51.2	56.7	4 600
48.0	49.0	54.9	3 900
50.0	46.8	53.1	3 300
52.0	44.5	51.1	2 800
54.0	42.1	48.9	2 300
56.0	39.6	46.6	1 900
73.2m (240 Ft.) BOOM			
11.6	82.6	74.9	57 200 *
12.0	82.3	74.9	56 600
13.0	81.5	74.7	50 900
14.0	80.7	74.5	45 400
15.0	79.9	74.4	40 800
16.0	79.1	74.2	36 900
18.0	77.5	73.7	30 700
20.0	75.9	73.2	25 900
22.0	74.3	72.7	22 200
24.0	72.6	72.1	19 200
26.0	71.0	71.4	16 700
28.0	69.3	70.7	14 500
30.0	67.6	69.8	12 800
32.0	65.9	69.0	11 200
34.0	64.2	68.0	9 900

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
73.2m (240 Ft.) BOOM			
36.0	62.4	67.0	8 700
38.0	60.6	65.9	7 600
40.0	58.8	64.7	6 700
42.0	56.9	63.4	5 800
44.0	55.0	62.0	5 100
46.0	53.1	60.5	4 400
48.0	51.1	59.0	3 800
50.0	49.0	57.2	3 200
52.0	46.9	55.4	2 600
54.0	44.7	53.4	2 200
76.2m (250 Ft.) BOOM			
11.6	82.9	78.0	51 900 *
12.0	82.6	77.9	51 800 *
13.0	81.9	77.8	50 900
14.0	81.1	77.6	45 600
15.0	80.3	77.5	41 000
16.0	79.6	77.3	37 100
18.0	78.0	76.9	30 900
20.0	76.5	76.4	26 100
22.0	74.9	75.9	22 400
24.0	73.4	75.3	19 300
26.0	71.8	74.6	16 800
28.0	70.2	73.9	14 700
30.0	68.6	73.1	12 900
32.0	66.9	72.3	11 300
34.0	65.3	71.4	10 000
36.0	63.6	70.4	8 800
38.0	61.9	69.4	7 800
40.0	60.2	68.2	6 800
42.0	58.4	67.0	6 000
44.0	56.6	65.7	5 200
46.0	54.8	64.3	4 500
48.0	52.9	62.8	3 900
50.0	51.0	61.3	3 300
52.0	49.0	59.5	2 800
54.0	47.0	57.7	2 300
56.0	44.9	55.7	1 800