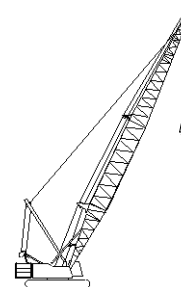




Liftcrane Boom Capacities

Boom No. 82LR
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 (*).

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

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.

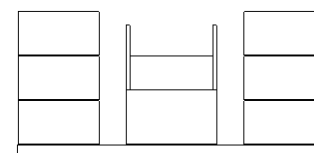
OPERATING CONDITIONS: Machine to operate in a level position on a firm uniformly supporting surface with gantry up. Refer to boom rigging **No. 196100** and Wire Rope Specification chart **No. 8315-A**. Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, 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. 8316-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 and 67 860 kg counterweight.



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

Maximum Boom and Jib Lengths Lifted Unassisted					
WITHOUT BOOM CATWALKS					
Over End of Blocked Crawlers			Over Side of Crawlers		
Boom Length	Jib No. 134	Jib No. 123	Boom Length	Jib No. 134	Jib No. 123
85.3m	—	—	79.2m	—	—
82.3m	—	—	76.2m	—	—
79.2m	12.2m	15.2m	73.2m	9.1m	12.2m
76.2m	18.3m	18.3m	70.1m	18.3m	18.3m
73.2m	24.4m	18.3m	67.1m	24.4m	18.3m
WITH BOOM CATWALKS					
Over End of Blocked Crawlers			Over Side of Crawlers		
Boom Length	Jib No. 134	Jib No. 123	Boom Length	Jib No. 134	Jib No. 123
85.3m	—	—	79.2m	—	—
82.3m	—	—	76.2m	—	—
79.2m	9.1m	(a) 15.2m	73.2m	(a) 9.1m	12.2m
76.2m	(a) 18.3m	18.3m	70.1m	(a) 18.3m	18.3m
73.2m	24.4m	18.3m	67.1m	24.4m	18.3m
Load block, hook and weight ball on ground at start.					
(a) Machine must be equipped with lowerworks jacking cylinders.					

Boom Catwalks Deduct

Deduct 350 kg from capacities when boom catwalks are attached.

Deduct From Capacities When Jib Is Attached

Jib Length	Jib No. 134	Jib No. 123
9.1m	1 220 kg	1 130 kg
12.2m	1 590 kg	1 410 kg
15.2m	1 950 kg	1 680 kg
18.3m	2 310 kg	2 000 kg
21.3m	2 770 kg	—
24.4m	3 220 kg	—

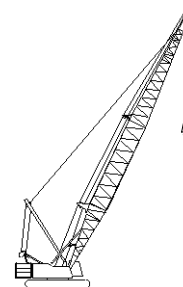
Consult jib chart for jib capacities. Upper boom point cannot be used when jib is attached.



Liftcrane Boom Capacities

Boom No. 82LR
67 860 kg Counterweight
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Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
36.6m (120 Ft.) Boom			
7.3	80.9	38.6	120 400 *
8.0	79.8	38.5	114 700
9.0	78.2	38.3	94 000
10.0	76.6	38.1	79 800
11.0	75.0	37.8	69 200
12.0	73.4	37.5	60 900
13.0	71.7	37.2	54 300
14.0	70.1	36.9	48 900
15.0	68.4	36.5	44 500
16.0	66.7	36.1	40 600
18.0	63.2	35.1	34 600
20.0	59.7	34.1	29 900
22.0	56.0	32.8	26 200
24.0	52.1	31.3	23 300
26.0	48.0	29.7	20 800
28.0	43.6	27.7	18 700
30.0	38.9	25.4	16 900
32.0	33.6	22.7	15 400
34.0	27.4	19.3	14 100
36.0	19.5	14.7	12 900
39.6m (130 Ft.) Boom			
7.9	80.7	41.6	115 900
8.0	80.6	41.6	114 200
9.0	79.1	41.4	94 000
10.0	77.6	41.2	79 800
11.0	76.2	41.0	69 200
12.0	74.7	40.7	60 900
13.0	73.2	40.4	54 300
14.0	71.6	40.1	48 900
15.0	70.1	39.7	44 400
16.0	68.6	39.4	40 600
18.0	65.4	38.5	34 500
20.0	62.2	37.5	29 900
22.0	58.9	36.4	26 200
24.0	55.4	35.1	23 200
26.0	51.9	33.6	20 800
28.0	48.1	32.0	18 700
30.0	44.1	30.0	16 900
32.0	39.7	27.8	15 400
34.0	35.0	25.2	14 000
36.0	29.5	22.0	12 800
38.0	23.0	18.0	11 800

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
42.7m (140 Ft.) Boom			
8.5	80.5	44.6	102 500
9.0	79.9	44.5	94 300
10.0	78.5	44.3	79 800
11.0	77.2	44.1	69 200
12.0	75.8	43.9	60 900
13.0	74.4	43.6	54 300
14.0	73.0	43.3	48 900
15.0	71.6	43.0	44 300
16.0	70.2	42.6	40 500
18.0	67.3	41.8	34 400
20.0	64.3	40.9	29 800
22.0	61.3	39.9	26 100
24.0	58.2	38.8	23 100
26.0	55.0	37.4	20 700
28.0	51.7	36.0	18 600
30.0	48.1	34.3	16 800
32.0	44.4	32.4	15 300
34.0	40.4	30.2	13 900
36.0	36.1	27.6	12 800
38.0	31.3	24.6	11 700
40.0	25.6	20.9	10 800
42.0	18.5	16.0	9 900
45.7m (150 Ft.) Boom			
9.1	80.4	47.6	91 700
10.0	79.3	47.4	79 800
11.0	78.0	47.2	69 100
12.0	76.8	47.0	60 800
13.0	75.5	46.7	54 200
14.0	74.2	46.5	48 800
15.0	72.9	46.2	44 300
16.0	71.5	45.9	40 500
18.0	68.9	45.1	34 300
20.0	66.2	44.3	29 700
22.0	63.4	43.4	26 000
24.0	60.6	42.3	23 000
26.0	57.6	41.1	20 600
28.0	54.6	39.8	18 500
30.0	51.5	38.3	16 700
32.0	48.2	36.6	15 200
34.0	44.7	34.7	13 900
36.0	41.1	32.5	12 700
38.0	37.1	30.0	11 700
40.0	32.7	27.2	10 700
42.0	27.7	23.7	9 900
44.0	21.7	19.4	9 100

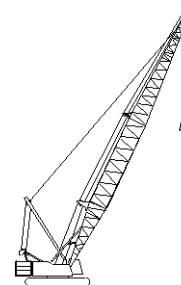
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
48.8m (160 Ft.) Boom			
9.1	81.0	50.7	91 700
10.0	80.0	50.5	79 700
11.0	78.8	50.3	69 000
12.0	77.6	50.1	60 700
13.0	76.4	49.9	54 100
14.0	75.2	49.6	48 600
15.0	74.0	49.4	44 100
16.0	72.7	49.1	40 300
18.0	70.3	48.4	34 200
20.0	67.7	47.6	29 500
22.0	65.2	46.7	25 800
24.0	62.6	45.8	22 800
26.0	59.9	44.7	20 300
28.0	57.1	43.4	18 300
30.0	54.3	42.1	16 500
32.0	51.3	40.6	15 000
34.0	48.2	38.9	13 600
36.0	45.0	37.0	12 500
38.0	41.6	34.9	11 400
40.0	37.9	32.5	10 500
42.0	33.9	29.7	9 700
44.0	29.4	26.4	8 900
46.0	24.2	22.5	8 200
51.8m (170 Ft.) Boom			
9.8	80.9	53.6	82 800
10.0	80.6	53.6	79 800
11.0	79.5	53.4	68 900
12.0	78.3	53.2	60 600
13.0	77.2	53.0	53 900
14.0	76.1	52.8	48 500
15.0	74.9	52.5	44 000
16.0	73.8	52.2	40 200
18.0	71.5	51.6	34 000
20.0	69.1	50.9	29 400
22.0	66.7	50.1	25 700
24.0	64.3	49.2	22 700
26.0	61.8	48.2	20 200
28.0	59.3	47.0	18 100
30.0	56.7	45.8	16 400
32.0	54.0	44.4	14 800
34.0	51.2	42.9	13 500
36.0	48.3	41.2	12 300
38.0	45.3	39.3	11 300
40.0	42.1	37.2	10 400
42.0	38.6	34.8	9 500
44.0	34.9	32.2	8 800
46.0	30.9	29.1	8 100
48.0	26.2	25.4	7 500
50.0	20.7	20.8	6 900



Liftcrane Boom Capacities

Boom No. 82LR
67 860 kg Counterweight
360 Degree Rating

**Meets
ANSI B30.5
Requirements**



999 SERIES 1

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) Boom			
10.4	80.7	56.6	75 300
11.0	80.1	56.5	68 900
12.0	79.0	56.3	60 500
13.0	77.9	56.1	53 800
14.0	76.9	55.9	48 400
15.0	75.8	55.7	43 900
16.0	74.7	55.4	40 000
18.0	72.5	54.8	33 900
20.0	70.3	54.1	29 300
22.0	68.1	53.4	25 500
24.0	65.8	52.5	22 500
26.0	63.5	51.6	20 100
28.0	61.1	50.5	18 000
30.0	58.7	49.4	16 200
32.0	56.3	48.1	14 700
34.0	53.7	46.7	13 400
36.0	51.1	45.2	12 200
38.0	48.3	43.5	11 200
40.0	45.5	41.6	10 200
42.0	42.5	39.5	9 400
44.0	39.3	37.2	8 600
46.0	35.8	34.6	7 900
48.0	32.1	31.6	7 300
50.0	27.9	28.2	6 800
52.0	23.1	24.0	6 200
57.9m (190 Ft.) Boom			
11.0	80.6	59.6	69 000
12.0	79.6	59.4	60 400
13.0	78.6	59.2	53 700
14.0	77.6	59.0	48 300
15.0	76.5	58.8	43 800
16.0	75.5	58.6	40 000
18.0	73.5	58.0	33 800
20.0	71.4	57.4	29 100
22.0	69.3	56.7	25 400
24.0	67.2	55.9	22 400
26.0	65.0	55.0	19 900
28.0	62.8	54.0	17 900
30.0	60.5	52.9	16 100
32.0	58.2	51.7	14 600
34.0	55.9	50.4	13 300
36.0	53.5	49.0	12 100
38.0	51.0	47.5	11 000
40.0	48.4	45.8	10 100
42.0	45.7	43.9	9 300

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
57.9m (190 Ft.) Boom			
44.0	42.8	41.8	8 500
46.0	39.8	39.6	7 800
48.0	36.6	37.0	7 200
50.0	33.2	34.2	6 600
52.0	29.4	30.9	6 100
54.0	25.0	27.0	5 600
56.0	19.8	22.1	5 100
61.0m (200 Ft.) Boom			
11.6	80.5	62.6	63 500
12.0	80.1	62.5	60 400
13.0	79.1	62.4	53 600
14.0	78.2	62.2	48 200
15.0	77.2	61.9	43 600
16.0	76.3	61.7	39 700
18.0	74.3	61.2	33 600
20.0	72.4	60.6	28 900
22.0	70.4	59.9	25 200
24.0	68.4	59.2	22 200
26.0	66.3	58.3	19 700
28.0	64.3	57.4	17 600
30.0	62.2	56.4	15 900
32.0	60.0	55.3	14 300
34.0	57.8	54.1	13 000
36.0	55.6	52.8	11 800
38.0	53.2	51.3	10 800
40.0	50.9	49.8	9 900
42.0	48.4	48.1	9 000
44.0	45.8	46.2	8 300
46.0	43.1	44.2	7 600
48.0	40.3	41.9	7 000
50.0	37.3	39.4	6 400
52.0	34.1	36.7	5 800
54.0	30.6	33.5	5 400
56.0	26.7	29.8	4 900
58.0	22.1	25.4	4 500
64.0m (210 Ft.) Boom			
11.6	81.0	65.7	63 400
12.0	80.6	65.6	60 200
13.0	79.7	65.5	53 500
14.0	78.8	65.3	48 000
15.0	77.8	65.1	43 500
16.0	76.9	64.8	39 600
18.0	75.1	64.3	33 400
20.0	73.2	63.8	28 800
22.0	71.3	63.1	25 100
24.0	69.4	62.4	22 000
26.0	67.5	61.6	19 600
28.0	65.6	60.8	17 500
30.0	63.6	59.8	15 700

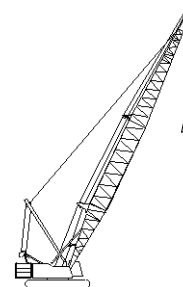
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
64.0m (210 Ft.) Boom			
32.0	61.6	58.8	14 200
34.0	59.5	57.6	12 800
36.0	57.4	56.4	11 700
38.0	55.3	55.1	10 600
40.0	53.1	53.6	9 700
42.0	50.8	52.1	8 900
44.0	48.4	50.4	8 100
46.0	46.0	48.5	7 400
48.0	43.4	46.5	6 800
50.0	40.8	44.3	6 200
52.0	37.9	41.8	5 700
54.0	34.9	39.1	5 200
56.0	31.7	36.1	4 700
58.0	28.1	32.6	4 300
60.0	24.0	28.5	3 900
62.0	19.1	23.5	3 500
67.1m (220 Ft.) Boom			
12.2	80.8	68.7	58 600
13.0	80.1	68.6	53 300
14.0	79.3	68.4	47 900
15.0	78.4	68.2	43 300
16.0	77.5	68.0	39 500
18.0	75.8	67.5	33 300
20.0	74.0	66.9	28 600
22.0	72.2	66.3	24 900
24.0	70.4	65.7	21 900
26.0	68.6	64.9	19 400
28.0	66.7	64.1	17 300
30.0	64.9	63.2	15 500
32.0	63.0	62.2	14 000
34.0	61.0	61.2	12 700
36.0	59.1	60.0	11 500
38.0	57.0	58.8	10 500
40.0	55.0	57.4	9 500
42.0	52.9	55.9	8 700
44.0	50.7	54.4	7 900
46.0	48.5	52.7	7 300
48.0	46.1	50.8	6 600
50.0	43.7	48.8	6 100
52.0	41.2	46.6	5 500
54.0	38.5	44.2	5 100
56.0	35.7	41.6	4 600
58.0	32.6	38.6	4 200
60.0	29.3	35.3	3 800
62.0	25.6	31.5	3 400
64.0	21.3	26.8	3 000



Liftcrane Boom Capacities

Boom No. 82LR
67 860 kg Counterweight
360 Degree Rating

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Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
70.1m (230 Ft.) Boom			
12.8	80.7	71.7	54 400
13.0	80.6	71.6	53 300
14.0	79.7	71.5	47 800
15.0	78.9	71.3	43 200
16.0	78.1	71.1	39 300
18.0	76.4	70.6	33 200
20.0	74.7	70.1	28 400
22.0	73.0	69.5	24 700
24.0	71.3	68.9	21 700
26.0	69.6	68.2	19 300
28.0	67.8	67.4	17 200
30.0	66.0	66.5	15 400
32.0	64.2	65.6	13 800
34.0	62.4	64.6	12 500
36.0	60.5	63.5	11 300
38.0	58.6	62.4	10 300
40.0	56.7	61.1	9 400
42.0	54.7	59.7	8 500
44.0	52.7	58.3	7 800
46.0	50.6	56.7	7 100
48.0	48.5	55.0	6 400
50.0	46.3	53.1	5 900
52.0	43.9	51.1	5 300
54.0	41.5	49.0	4 900
56.0	39.0	46.6	4 400
58.0	36.3	44.0	4 000
60.0	33.5	41.2	3 600
62.0	30.4	37.9	3 300
64.0	27.0	34.3	2 900
66.0	23.1	30.0	2 600
68.0	18.5	24.7	2 300
73.2m (240 Ft.) Boom			
13.4	80.6	74.7	50 700
14.0	80.2	74.6	47 600
15.0	79.4	74.4	43 000
16.0	78.6	74.2	39 100
18.0	77.0	73.8	33 000
20.0	75.4	73.3	28 300
22.0	73.7	72.7	24 500
24.0	72.1	72.1	21 500
26.0	70.5	71.4	19 000
28.0	68.8	70.7	16 900
30.0	67.1	69.9	15 100
32.0	65.4	69.0	13 600
34.0	63.6	68.0	12 300
36.0	61.9	67.0	11 100
38.0	60.1	65.9	10 000
40.0	58.3	64.7	9 100
42.0	56.4	63.4	8 300
44.0	54.5	62.0	7 500

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
73.2m (240 Ft.) Boom			
46.0	52.6	60.6	6 800
48.0	50.6	59.0	6 200
50.0	48.5	57.3	5 600
52.0	46.4	55.4	5 100
54.0	44.2	53.5	4 600
56.0	41.9	51.3	4 200
58.0	39.5	49.0	3 700
60.0	36.9	46.4	3 300
62.0	34.2	43.6	3 000
64.0	31.3	40.5	2 600
66.0	28.2	37.0	2 300
68.0	24.7	33.0	2 000
76.2m (250 Ft.) Boom			
13.4	81.0	77.8	50 500
14.0	80.6	77.7	47 500
15.0	79.8	77.5	42 800
16.0	79.0	77.3	39 000
18.0	77.5	76.9	32 800
20.0	76.0	76.4	28 100
22.0	74.4	75.9	24 300
24.0	72.8	75.3	21 300
26.0	71.3	74.6	18 900
28.0	69.7	73.9	16 800
30.0	68.1	73.2	15 000
32.0	66.4	72.3	13 400
34.0	64.8	71.4	12 100
36.0	63.1	70.4	10 900
38.0	61.4	69.4	9 800
40.0	59.7	68.3	8 900
42.0	57.9	67.0	8 100
44.0	56.1	65.7	7 300
46.0	54.3	64.4	6 700
48.0	52.4	62.9	6 000
50.0	50.5	61.3	5 400
52.0	48.5	59.6	4 900
54.0	46.5	57.7	4 400
56.0	44.4	55.8	4 000
58.0	42.2	53.6	3 600
60.0	39.9	51.3	3 200
62.0	37.5	48.8	2 800
64.0	34.9	46.1	2 400
66.0	32.2	43.1	2 100
68.0	29.3	39.7	1 900

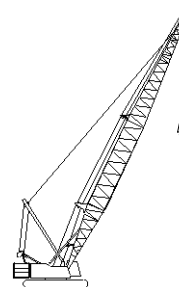
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
79.2m (260 Ft.) Boom			
14.0	80.9	80.7	47 000 *
15.0	80.2	80.6	42 700
16.0	79.5	80.4	38 800
18.0	78.0	80.0	32 600
20.0	76.5	79.5	27 900
22.0	75.0	79.0	24 200
24.0	73.5	78.5	21 200
26.0	72.0	77.9	18 700
28.0	70.5	77.2	16 600
30.0	68.9	76.4	14 800
32.0	67.4	75.6	13 200
34.0	65.8	74.8	11 900
36.0	64.2	73.8	10 700
38.0	62.6	72.8	9 700
40.0	61.0	71.8	8 700
42.0	59.3	70.6	7 900
44.0	57.6	69.4	7 100
46.0	55.9	68.1	6 500
48.0	54.1	66.7	5 800
50.0	52.3	65.2	5 300
52.0	50.4	63.6	4 700
54.0	48.5	61.9	4 200
56.0	46.6	60.0	3 800
58.0	44.5	58.1	3 400
60.0	42.4	56.0	3 000
62.0	40.3	53.7	2 600
64.0	38.0	51.2	2 300
66.0	35.6	48.6	2 000



Liftcrane Boom Capacities

Boom No. 82LR
67 860 kg Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements



999 SERIES 1

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
82.3m (270 Ft.) Boom			
14.6	80.8	83.7	43 000 *
15.0	80.6	83.7	42 100
16.0	79.9	83.5	39 200
18.0	78.5	83.1	32 500
20.0	77.0	82.7	27 700
22.0	75.6	82.2	24 000
24.0	74.2	81.7	21 000
26.0	72.7	81.1	18 500
28.0	71.2	80.4	16 400
30.0	69.8	79.7	14 600
32.0	68.3	78.9	13 100
34.0	66.8	78.1	11 700
36.0	65.2	77.2	10 500
38.0	63.7	76.3	9 500
40.0	62.1	75.2	8 500
42.0	60.5	74.1	7 700
44.0	58.9	73.0	7 000
46.0	57.3	71.7	6 300
48.0	55.6	70.4	5 700
50.0	53.9	69.0	5 100
52.0	52.2	67.5	4 500
54.0	50.4	65.9	4 100
56.0	48.6	64.2	3 600
58.0	46.7	62.3	3 200
60.0	44.7	60.4	2 800
62.0	42.7	58.3	2 400
64.0	40.6	56.1	2 100

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
85.3m (280 Ft.) Boom			
15.2	80.8	86.7	38 800 *
16.0	80.2	86.6	37 400
18.0	78.9	86.2	32 500
20.0	77.5	85.8	27 500
22.0	76.1	85.3	23 800
24.0	74.7	84.8	20 700
26.0	73.3	84.2	18 300
28.0	71.9	83.6	16 200
30.0	70.5	82.9	14 400
32.0	69.1	82.2	12 800
34.0	67.6	81.4	11 500
36.0	66.2	80.6	10 300
38.0	64.7	79.6	9 300
40.0	63.2	78.7	8 300
42.0	61.7	77.6	7 500
44.0	60.2	76.5	6 700
46.0	58.6	75.3	6 000
48.0	57.0	74.1	5 400
50.0	55.4	72.7	4 800
52.0	53.7	71.3	4 300
54.0	52.1	69.8	3 800
56.0	50.3	68.2	3 400
58.0	48.6	66.5	2 900
60.0	46.8	64.6	2 600
62.0	44.9	62.7	2 200
64.0	42.9	60.6	1 900