

Liftcrane Boom


Extended Upper Point Capacities

Boom No. B87:505-500
with Mast No. M11:503 and
7,0 m Extended Upper Boom Point
135 100 kg VPC (Variable Position Counterweight)
360 Degree Rating

MLC300

VPC-MAX

SERIES 1


 **LIFTING CAPACITIES:** Lifting capacities for various boom lengths and operating radii are for freely suspended loads and may be based on percent of static tipping or strength of structural components. Capacities must be reduced by applicable deducts.


Upper boom point (upper sheave) capacity for liftcrane service with single part whip line from Drum 6 is 13 600 kg. When Drum 2 or Drum 3 is used, capacity with single part whip line is 16 600 kg. In all cases, upper boom point capacities cannot exceed those listed for extended upper boom point (lower sheave) capacity.


Weight of all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath sheaves is considered part of 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 on a firm, level, and uniformly supporting surface. Refer to Boom Rigging **No. 80134737**, Mast Rigging **No. 84045340**, Wire Rope Specifications chart **No. 9871-A**, Counterweight Arrangements chart **No. 9345-A**, and Wind Conditions chart **No. 9872-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 the Operator Manual for operating guidelines.

MACHINE TRAVEL: Machine to travel on a firm, level, and uniformly supporting surface. Boom must be within boom angle range shown in capacity chart. Refer to Maximum Allowable Travel Specifications chart **No. 9870-A**.

 **EXTENDED UPPER BOOM POINT OPERATING RADIUS:** Extended upper boom point operating radius is horizontal distance from axis of rotation to center of vertical hoist line or load block.

 **BOOM ANGLE:** Boom angle in degrees ($^{\circ}$) 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.

 **EXTENDED UPPER BOOM POINT ELEVATION:** Extended upper boom point elevation is vertical distance from ground level to centerline of extended upper boom point shaft.

MACHINE EQUIPMENT: Machine equipped with VPC-MAX, 9 700 mm crawlers, 1 219 mm or 1 524 mm treads, 9 144 mm live mast, 30,0 m mast, 10 part boom hoist reeving, boom support straps, and 135 100 kg VPC.

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Refer to Table 1 (without luffing jib backstays stored) for raising ability with the maximum weight of all load blocks, hooks, weight ball, slings, and hoist lines beneath extended upper boom point (lower or upper sheaves). For block weights shown with #, load blocks, hooks, weight ball, and slings must remain on ground until combined weights are within rated capacity of chart. Raising is not permitted in shaded areas of table.

Select counterweight position from Table 1 that will allow raising and lowering of boom length. Counterweight position selection may be changed with boom on ground or while boom is within operating range of capacity chart.

Combined weight beneath extended upper boom point (lower or upper sheaves) must not exceed block weight shown.

Table 1a: Without Luffing Jib Backstays




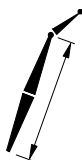
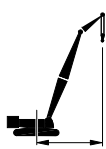


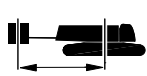

Over End or Side of Crawlers		
Boom Length (m)	10,6 m Counterweight Position	14,6 m Counterweight Position
	Block Weight (kg)	
83,0	4 700	4 700
86,0	4 700	4 700
89,0	3 600	4 700
92,0	2 000	4 700
95,0	#	4 700
98,0	Raising Not Permitted	4 700
101,0		4 100
104,0		2 500
107,0		1 600
110,0		#
113,0		

Table 1b: Without Luffing Jib Backstays

Over End of Blocked Crawlers		
Boom Length (m)	10,6 m Counterweight Position	14,6 m Counterweight Position
	Block Weight (kg)	
83,0	4 700	4 700
86,0	4 700	4 700
89,0	4 700	4 700
92,0	4 500	4 700
95,0	3 400	4 700
98,0	1 700	4 700
101,0	#	4 700
104,0	Raising Not Permitted	4 700
107,0		3 800
110,0		2 200
113,0		#

Warning: Crane must remain in-line with crawlers when raising over end of blocked crawlers until operating radius is within 360 degree chart. Crane tipping or structural damage can occur.

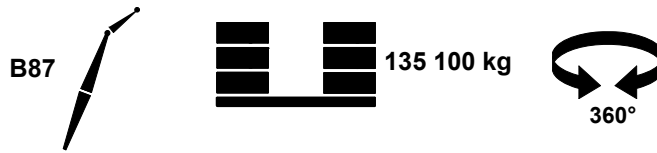
Explanation of Symbols

	Boom No. B87:505-500
	VPC (Variable Position Counterweight)
	360 Degree Rating
	Boom Length
	Extended Upper Boom Point Operating Radius (see page 1)
	Boom Angle (see page 1)
	Extended Upper Boom Point Elevation (see page 1)
	Counterweight Position from Axis of Rotation
	Lifting Capacities (see page 1)

REFERENCE ONLY!

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83,0 m				
m			10,6 m	14,6 m
kg			kg	kg
16,8	82,9	90,2	83 900	83 900
17,0	82,7	90,1	83 700	83 700
18,0	82,1	90,0	83 100	83 100
19,0	81,4	89,8	82 400	82 400
20,0	80,8	89,6	81 600	81 600
22,0	79,5	89,1	80 200	80 200
24,0	78,1	88,6	78 800	78 800
26,0	76,8	88,1	77 200	77 400
28,0	75,5	87,5	70 500	76 000
30,0	74,1	86,8	63 800	74 600
32,0	72,8	86,1	58 000	73 200
34,0	71,4	85,4	53 000	68 200
36,0	70,0	84,6	48 600	62 900
38,0	68,6	83,7	44 700	58 200
40,0	67,2	82,8	41 300	54 000
42,0	65,8	81,8	38 200	50 200
44,0	64,3	80,8	35 400	46 800
46,0	62,8	79,6	32 800	43 700
48,0	61,4	78,5	30 500	40 900
50,0	59,8	77,2	28 400	38 300
52,0	58,3	75,9	26 400	36 000
54,0	56,7	74,5	24 400	33 800
56,0	55,1	73,0	22 600	31 800
58,0	53,5	71,4	20 900	29 900
60,0	51,8	69,7	19 300	28 200
62,0	50,1	67,9	17 800	26 600
64,0	48,3	66,0	16 400	25 000
66,0	46,5	64,0	15 000	23 600
68,0	44,6	61,8	13 800	22 300
70,0	42,7	59,5	12 600	21 000
72,0	40,6	57,1	11 500	19 800
74,0	38,5	54,4	10 400	18 700
76,0	36,2	51,5	9 400	17 600
76,8	35,3	50,2	9 000	17 200

86,0 m				
m			10,6 m	14,6 m
kg			kg	kg
17,1	82,9	93,2	85 200	85 200
18,0	82,3	93,0	84 600	84 600
19,0	81,7	92,8	83 900	83 900
20,0	81,1	92,6	83 300	83 300
22,0	79,8	92,2	81 900	81 900
24,0	78,5	91,7	80 600	80 600
26,0	77,3	91,2	77 900	79 300
28,0	76,0	90,6	70 100	77 900
30,0	74,7	90,0	63 300	76 600
32,0	73,4	89,3	57 500	73 800
34,0	72,0	88,6	52 600	67 800
36,0	70,7	87,8	48 200	62 400
38,0	69,4	87,0	44 200	57 700
40,0	68,0	86,1	40 800	53 500
42,0	66,6	85,2	37 700	49 700
44,0	65,2	84,2	34 900	46 300
46,0	63,8	83,1	32 300	43 200
48,0	62,4	82,0	30 000	40 400
50,0	61,0	80,8	27 800	37 800
52,0	59,5	79,5	25 700	35 500
54,0	58,0	78,2	23 700	33 300
56,0	56,5	76,7	21 900	31 300
58,0	54,9	75,2	20 100	29 400
60,0	53,3	73,6	18 600	27 700
62,0	51,7	72,0	17 100	26 000
64,0	50,0	70,2	15 700	24 500
66,0	48,3	68,3	14 300	23 100
68,0	46,6	66,3	13 100	21 800
70,0	44,8	64,1	11 900	20 500
72,0	42,9	61,8	10 800	19 300
74,0	40,9	59,4	9 700	18 200
76,0	38,9	56,8	8 700	17 100
78,0	36,7	53,9	7 800	16 100
79,3	35,3	52,0	7 200	15 400

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135 100 kg



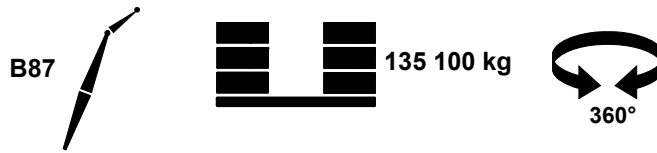
360°

89,0 m				
m	m	m	kg	kg
17,4	83,0	96,2	90 000	90 000
18,0	82,6	96,1	89 700	89 700
19,0	82,0	95,9	89 100	89 100
20,0	81,4	95,7	88 500	88 500
22,0	80,1	95,3	87 300	87 300
24,0	78,9	94,8	85 900	86 600
26,0	77,7	94,3	77 200	86 600
28,0	76,4	93,7	69 400	85 700
30,0	75,2	93,1	62 700	80 200
32,0	73,9	92,5	56 800	73 100
34,0	72,6	91,8	51 800	67 000
36,0	71,3	91,0	47 400	61 700
38,0	70,0	90,2	43 500	56 900
40,0	68,7	89,4	40 000	52 700
42,0	67,4	88,5	36 900	49 000
44,0	66,1	87,5	34 100	45 500
46,0	64,7	86,5	31 500	42 400
48,0	63,4	85,4	29 000	39 600
50,0	62,0	84,2	26 700	37 000
52,0	60,6	83,0	24 500	34 700
54,0	59,1	81,8	22 600	32 500
56,0	57,7	80,4	20 700	30 500
58,0	56,2	79,0	19 000	28 600
60,0	54,7	77,5	17 400	26 900
62,0	53,2	75,9	15 900	25 200
64,0	51,6	74,2	14 500	23 700
66,0	50,0	72,4	13 200	22 300
68,0	48,3	70,5	12 000	20 900
70,0	46,6	68,5	10 800	19 700
72,0	44,9	66,4	9 700	18 500
74,0	43,0	64,1	8 600	17 300
76,0	41,2	61,7	7 600	16 300
78,0	39,2	59,1	6 700	15 200
80,0	37,1	56,3	5 700	14 300
81,7	35,3	53,8	5 000	13 500

92,0 m				
m	m	m	kg	kg
18,0	82,8	99,1	94 800	94 800
19,0	82,2	98,9	94 800	94 800
20,0	81,6	98,7	94 800	94 800
22,0	80,4	98,3	94 800	94 800
24,0	79,2	97,9	86 300	94 800
26,0	78,0	97,4	76 800	94 500
28,0	76,8	96,8	68 900	87 900
30,0	75,6	96,3	62 200	79 700
32,0	74,4	95,6	56 300	72 600
34,0	73,2	95,0	51 400	66 500
36,0	71,9	94,2	46 900	61 200
38,0	70,7	93,5	43 000	56 400
40,0	69,4	92,6	39 500	52 200
42,0	68,1	91,8	36 400	48 400
44,0	66,9	90,8	33 600	45 000
46,0	65,6	89,8	30 800	41 900
48,0	64,2	88,8	28 300	39 100
50,0	62,9	87,7	26 000	36 500
52,0	61,6	86,5	23 800	34 200
54,0	60,2	85,3	21 800	32 000
56,0	58,8	84,0	20 000	29 900
58,0	57,4	82,6	18 300	28 100
60,0	56,0	81,2	16 700	26 300
62,0	54,5	79,7	15 200	24 700
64,0	53,0	78,1	13 800	23 200
66,0	51,5	76,4	12 500	21 700
68,0	49,9	74,6	11 200	20 400
70,0	48,3	72,7	10 100	19 100
72,0	46,7	70,7	9 000	17 900
74,0	45,0	68,6	7 900	16 800
76,0	43,2	66,3	6 900	15 700
78,0	41,4	63,9	6 000	14 700
80,0	39,5	61,4	5 000	13 800
80,8	38,2	60,3	4 700	13 400
84,0	35,4	55,7		12 000
84,1	35,3	55,5		11 900

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95,0 m			10,6 m	14,6 m
m	m	m	kg	kg
18,3	82,9	102,1	100 000	100 000
19,0	82,5	102,0	100 000	100 000
20,0	81,9	101,8	100 000	100 000
22,0	80,7	101,4	97 600	99 600
24,0	79,6	101,0	86 200	97 600
26,0	78,4	100,5	76 700	95 500
28,0	77,2	100,0	68 800	87 700
30,0	76,1	99,4	62 100	79 600
32,0	74,9	98,8	56 200	72 500
34,0	73,7	98,1	51 200	66 400
36,0	72,5	97,4	46 800	61 100
38,0	71,3	96,7	42 900	56 300
40,0	70,1	95,9	39 400	52 100
42,0	68,8	95,1	36 300	48 300
44,0	67,6	94,2	33 300	44 900
46,0	66,4	93,2	30 600	41 800
48,0	65,1	92,2	28 100	39 000
50,0	63,8	91,1	25 700	36 400
52,0	62,5	90,0	23 600	34 000
54,0	61,2	88,8	21 600	31 800
56,0	59,9	87,6	19 800	29 800
58,0	58,5	86,3	18 100	27 900
60,0	57,1	84,9	16 500	26 200
62,0	55,7	83,5	15 000	24 500
64,0	54,3	81,9	13 600	23 000
66,0	52,9	80,3	12 300	21 600
68,0	51,4	78,6	11 000	20 300
70,0	49,9	76,9	9 900	19 000
72,0	48,3	75,0	8 700	17 800
74,0	46,7	73,0	7 700	16 700
76,0	45,1	70,9	6 700	15 600
78,0	43,4	68,6	5 800	14 600
80,0	41,6	66,3	4 800	13 600
80,8	40,2	65,3	4 500	13 300
84,0	37,9	61,0		11 800
86,6	35,3	57,3		10 800

98,0 m			10,6 m	14,6 m
m	m	m	kg	kg
18,6	82,9	105,1	97 900	97 900
19,0	82,7	105,0	97 900	97 900
20,0	82,1	104,8	97 900	97 900
22,0	81,0	104,5	96 100	96 300
24,0	79,9	104,0	85 700	92 900
26,0	78,7	103,6	76 200	89 600
28,0	77,6	103,1	68 400	85 700
30,0	76,5	102,5	61 600	79 100
32,0	75,3	101,9	55 700	72 000
34,0	74,2	101,3	50 700	65 900
36,0	73,0	100,6	46 300	60 600
38,0	71,9	99,9	42 400	55 800
40,0	70,7	99,1	38 900	51 600
42,0	69,5	98,3	35 700	47 800
44,0	68,3	97,4	32 600	44 400
46,0	67,1	96,5	29 900	41 300
48,0	65,9	95,6	27 300	38 400
50,0	64,6	94,5	25 000	35 800
52,0	63,4	93,5	22 900	33 500
54,0	62,1	92,3	20 900	31 300
56,0	60,8	91,1	19 000	29 300
58,0	59,5	89,9	17 300	27 400
60,0	58,2	88,5	15 700	25 600
62,0	56,9	87,2	14 200	24 000
64,0	55,5	85,7	12 800	22 500
66,0	54,1	84,2	11 500	21 100
68,0	52,7	82,6	10 300	19 700
70,0	51,3	80,9	9 100	18 500
72,0	49,8	79,1	8 000	17 300
74,0	48,3	77,2	7 000	16 100
76,0	46,8	75,2	6 000	15 100
77,7	45,1	73,4	5 100	14 200
78,0	45,2	73,1		14 100
80,0	43,5	70,9		13 100
84,0	40,1	66,0		11 300
88,0	36,3	60,5		9 700
89,3	35,0	58,5		9 200

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135 100 kg

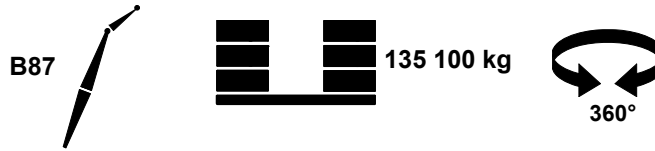


101,0 m				
m	m	m	kg	kg
18,9	82,9	108,1	94 900	94 900
19,0	82,9	108,1	94 900	94 900
20,0	82,3	107,9	94 900	94 900
22,0	81,3	107,5	94 800	94 800
24,0	80,2	107,1	85 600	92 000
26,0	79,1	106,7	76 100	88 700
28,0	78,0	106,2	68 300	85 200
30,0	76,9	105,6	61 500	79 000
32,0	75,8	105,1	55 600	71 900
34,0	74,6	104,5	50 600	65 800
36,0	73,5	103,8	46 200	60 400
38,0	72,4	103,1	42 200	55 600
40,0	71,2	102,4	38 700	51 400
42,0	70,1	101,6	35 400	47 600
44,0	68,9	100,7	32 400	44 200
46,0	67,8	99,8	29 600	41 100
48,0	66,6	98,9	27 100	38 300
50,0	65,4	97,9	24 800	35 700
52,0	64,2	96,9	22 600	33 300
54,0	63,0	95,8	20 700	31 100
56,0	61,8	94,6	18 800	29 100
58,0	60,5	93,4	17 100	27 200
60,0	59,2	92,2	15 500	25 500
62,0	58,0	90,8	14 000	23 900
64,0	56,7	89,4	12 600	22 300
66,0	55,3	88,0	11 300	20 900
68,0	54,0	86,4	10 100	19 600
70,0	52,6	84,8	8 900	18 300
72,0	51,2	83,1	7 800	17 100
74,0	49,8	81,3	6 700	16 000
76,0	48,3	79,4	5 700	14 900
77,7	46,3	77,7	4 900	14 000
78,0	46,8	77,5		13 900
80,0	45,3	75,4		12 900
84,0	42,0	70,8		11 200
88,0	38,6	65,7		9 500
91,7	35,0	60,3		8 100

104,0 m				
m	m	m	kg	kg
19,2	83,0	111,0	92 000	92 000
20,0	82,6	110,9	92 000	92 000
22,0	81,5	110,6	89 700	89 700
24,0	80,4	110,2	85 200	86 400
26,0	79,4	109,7	75 700	83 200
28,0	78,3	109,3	67 800	80 100
30,0	77,2	108,7	61 000	77 100
32,0	76,2	108,2	55 100	71 400
34,0	75,1	107,6	50 100	65 300
36,0	74,0	107,0	45 700	59 900
38,0	72,9	106,3	41 700	55 100
40,0	71,8	105,6	38 100	50 900
42,0	70,7	104,8	34 700	47 100
44,0	69,5	104,0	31 700	43 700
46,0	68,4	103,1	28 900	40 600
48,0	67,3	102,2	26 400	37 800
50,0	66,1	101,3	24 000	35 200
52,0	65,0	100,3	21 900	32 800
54,0	63,8	99,2	19 900	30 600
56,0	62,6	98,1	18 100	28 600
58,0	61,4	96,9	16 300	26 700
60,0	60,2	95,7	14 800	24 900
62,0	58,9	94,4	13 300	23 300
64,0	57,7	93,1	11 900	21 800
66,0	56,4	91,7	10 500	20 400
68,0	55,1	90,2	9 300	19 000
70,0	53,8	88,7	8 100	17 700
72,0	52,5	87,0	7 000	16 600
74,0	51,1	85,3	6 000	15 400
76,0	49,7	83,5	5 000	14 400
76,2	48,9	83,4	4 900	14 300
78,0	48,3	81,7		13 400
80,0	46,8	79,7		12 400
84,0	43,8	75,4		10 600
88,0	40,6	70,7		9 000
92,0	37,1	65,3		7 500
94,2	35,1	62,0		6 700

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107,0 m			10,6 m	14,6 m
m	m	m	kg	kg
19,8	82,9	114,0	88 300	88 300
20,0	82,8	113,9	88 300	88 300
22,0	81,7	113,6	88 300	88 300
24,0	80,7	113,2	85 200	86 000
26,0	79,7	112,8	75 700	82 900
28,0	78,6	112,3	67 800	79 800
30,0	77,6	111,8	61 000	76 800
32,0	76,5	111,3	55 100	71 400
34,0	75,5	110,7	50 100	65 300
36,0	74,4	110,1	45 600	59 900
38,0	73,4	109,4	41 700	55 100
40,0	72,3	108,7	38 000	50 900
42,0	71,2	108,0	34 700	47 100
44,0	70,1	107,2	31 600	43 700
46,0	69,0	106,4	28 800	40 600
48,0	67,9	105,5	26 300	37 700
50,0	66,8	104,6	24 000	35 100
52,0	65,7	103,6	21 800	32 800
54,0	64,5	102,6	19 900	30 600
56,0	63,4	101,5	18 000	28 500
58,0	62,2	100,4	16 300	26 700
60,0	61,1	99,2	14 700	24 900
62,0	59,9	98,0	13 200	23 300
64,0	58,7	96,7	11 800	21 800
66,0	57,4	95,3	10 500	20 300
68,0	56,2	93,9	9 300	19 000
70,0	54,9	92,4	8 100	17 700
72,0	53,7	90,9	7 000	16 500
74,0	52,4	89,2	5 900	15 400
76,0	51,0	87,5	4 900	14 300
76,2	50,8	87,4	4 800	14 200
78,0	49,7	85,8		13 300
80,0	48,3	83,9		12 400
84,0	45,4	79,8		10 600
88,0	42,4	75,4		9 000
92,0	39,1	70,4		7 500
96,0	35,6	64,7		6 100
96,6	35,1	63,7		5 900

110,0 m			10,6 m	14,6 m
m	m	m	kg	kg
20,1	82,9	117,0	83 700	83 700
22,0	81,9	116,7	83 700	83 700
24,0	80,9	116,3	81 200	81 200
26,0	79,9	115,9	75 200	78 100
28,0	78,9	115,4	67 300	75 100
30,0	77,9	114,9	60 500	72 200
32,0	76,9	114,4	54 600	69 400
34,0	75,9	113,9	49 600	64 800
36,0	74,8	113,3	45 100	59 400
38,0	73,8	112,6	41 000	54 600
40,0	72,8	111,9	37 300	50 400
42,0	71,7	111,2	33 900	46 600
44,0	70,7	110,4	30 900	43 100
46,0	69,6	109,6	28 100	40 000
48,0	68,5	108,8	25 500	37 200
50,0	67,4	107,9	23 200	34 600
52,0	66,4	107,0	21 100	32 200
54,0	65,3	106,0	19 100	30 000
56,0	64,2	104,9	17 200	28 000
58,0	63,0	103,8	15 500	26 100
60,0	61,9	102,7	13 900	24 400
62,0	60,8	101,5	12 400	22 700
64,0	59,6	100,3	11 000	21 200
66,0	58,4	99,0	9 700	19 800
68,0	57,2	97,6	8 500	18 400
70,0	56,0	96,2	7 300	17 200
72,0	54,8	94,7	6 200	16 000
74,0	53,5	93,1	5 200	14 800
74,7	52,7	92,6	4 800	14 500
76,0	52,3	91,5		13 800
78,0	51,0	89,8		12 800
80,0	49,6	88,0		11 800
84,0	46,9	84,2		10 000
88,0	44,0	79,9		8 400
92,0	41,0	75,3		6 900
96,0	37,8	70,0		5 600
97,5	36,4	67,8		5 100

MLC300 VPC-MAX S-1

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135 100 kg



m	m	m	kg	kg
20,4	82,9	120,0	79 500	79 500
22,0	82,1	119,7	79 500	79 500
24,0	81,2	119,3	77 200	77 200
26,0	80,2	118,9	74 000	74 100
28,0	79,2	118,5	67 200	71 200
30,0	78,2	118,0	60 400	68 400
32,0	77,2	117,5	54 500	65 700
34,0	76,2	117,0	49 400	63 000
36,0	75,2	116,4	44 900	59 200
38,0	74,2	115,8	40 700	54 400
40,0	73,2	115,1	37 000	50 200
42,0	72,2	114,4	33 600	46 400
44,0	71,2	113,6	30 600	42 900
46,0	70,1	112,9	27 800	39 800
48,0	69,1	112,0	25 300	37 000
50,0	68,1	111,2	23 000	34 400
52,0	67,0	110,3	20 800	32 000
54,0	65,9	109,3	18 800	29 800
56,0	64,9	108,3	17 000	27 800
58,0	63,8	107,2	15 300	25 900
60,0	62,7	106,1	13 700	24 200
62,0	61,6	105,0	12 200	22 500
64,0	60,4	103,8	10 800	21 000
66,0	59,3	102,5	9 500	19 600
68,0	58,2	101,2	8 200	18 200
70,0	57,0	99,9	7 100	17 000
72,0	55,8	98,4	5 900	15 800
74,0	54,6	96,9	4 900	14 700
74,7	53,7	96,4	4 600	14 300
76,0	53,4	95,4		13 600
78,0	52,2	93,7		12 600
80,0	50,9	92,0		11 600
84,0	48,3	88,4		9 900
88,0	45,6	84,3		8 200
92,0	42,7	79,9		6 800
96,0	39,7	75,0		5 400
97,5	38,4	73,0		4 800