

Liftcrane Luffing Jib Intermediate Fall Capacities

888 SERIES 2

**Fixed Jib No. 138 At 3 Degree Offset Angle On
Luffing Jib No. 135 On Boom No. 22EL
81 240 kg Crane Counterweight
19 960 kg Carbody Counterweight
8 585 mm Crawlers Extended
360 Degree Rating**

**Designed And Tested
With The Intent To Be In
The Scope of ANSI B30.5**

LIFTING CAPACITIES: Lifting capacities for various boom lengths, boom angles, luffing jib lengths, fixed jib lengths and intermediate fall 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 (*).

Lower boom point assembly must be completely removed on 57.9m and 61.0m boom lengths.

Weight of all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath intermediate fall is considered part of intermediate fall load. 1 360 kg suspended beneath luffing jib point sheaves has been included in capacity determination. Fixed jib weight and 680 kg suspended beneath fixed jib point also included in capacity determination. Boom and luffing jib are 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 uniformly supporting surface with crawlers fully extended, gantry up and bearing turntable level within a tolerance of 13 mm in 3m and properly supported. During operation, boom must be maintained at one of the selected angles shown in chart. Refer to fixed jib assembly **No. 179361**, luffing jib assembly **No. A07691**, Wire Rope Specification chart **No. 7825-A** and Luffing Jib Raising Procedure chart **No. 7826-B**. 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 with boom and luffing jib within angle range shown in capacity chart. Refer to Maximum Allowable Travel Specification chart **No. 7827-B**.

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

INTERMEDIATE FALL ELEVATION: Intermediate fall elevation is vertical distance from ground level to centerline of intermediate fall shaft.

MACHINE EQUIPMENT: Machine equipped with 8 585 mm extendible crawlers, 1 219 mm treads, 3 124 mm retractable gantry, 9 144 mm live mast, 20 part boom hoist reeving, four 35 mm boom pendants, 8 part luffing jib hoist reeving, two 38 mm luffing jib pendants and backstays, 81 240 kg crane counterweight and 19 960 kg carbody counterweight.

Consult chart **No. 7832-AM** for luffing jib capacities. Consult chart **No. 7969-AM** for fixed jib on luffing jib capacities. Consult chart **No. 8518-AM** for intermediate fall capacities with fixed jib removed.



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48.8m (160 Ft.) Boom, 42.7m (140 Ft.) Luffing Jib 9.1m (30 Ft.) - 18.3m (60 Ft.) Fixed Jib

Int. Fall Oper. Rad. Meters	88 Degree Boom Angle			83 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. Meters
	Jib Angle Degrees	Intermediate Fall		Jib Angle Degrees	Intermediate Fall		Jib Angle Degrees	Intermediate Fall		
		Elev. Meters	Capacity Kilograms		Elev. Meters	Capacity Kilograms		Elev. Meters	Capacity Kilograms	
10.7	71.8	69.5	6 800*							10.7
12.0	67.6	69.0	6 800*							12.0
14.0	60.9	68.0	6 800*							14.0
16.0	53.9	66.6	6 800*	68.3	68.7	6 800*				16.0
18.0	46.0	64.9	5 900*	61.7	67.7	6 800*				18.0
20.0	36.9	62.5	4 900*	54.7	66.4	6 700*				20.0
22.0	25.0	59.0	4 100*	47.0	64.7	6 300*				22.0
24.0				38.1	62.5	5 000*				24.0
26.0				26.7	59.1	4 200*				26.0
32.0							49.8	62.7	6 800*	32.0
34.0							41.4	60.6	5 500*	34.0
36.0							31.1	57.7	4 600*	36.0
38.0							15.4	52.8	3 900*	38.0

48.8m (160 Ft.) Boom, 45.7m (150 Ft.) Luffing Jib 9.1m (30 Ft.) - 18.3m (60 Ft.) Fixed Jib

Int. Fall Oper. Rad. Meters	88 Degree Boom Angle			83 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. Meters
	Jib Angle Degrees	Intermediate Fall		Jib Angle Degrees	Intermediate Fall		Jib Angle Degrees	Intermediate Fall		
		Elev. Meters	Capacity Kilograms		Elev. Meters	Capacity Kilograms		Elev. Meters	Capacity Kilograms	
10.7	71.8	69.5	6 800*							10.7
12.0	67.6	69.0	6 800*							12.0
14.0	60.9	68.0	6 800*							14.0
16.0	53.9	66.6	6 600*	68.3	68.7	6 800*				16.0
18.0	46.0	64.9	5 700*	61.7	67.7	6 800*				18.0
20.0	36.9	62.5	4 600*	54.7	66.4	6 700*				20.0
22.0	25.0	59.0	3 900*	47.0	64.7	5 900*				22.0
24.0				38.1	62.5	4 800*				24.0
26.0				26.7	59.1	4 000*				26.0
32.0							49.8	62.7	6 500*	32.0
34.0							41.4	60.6	5 200*	34.0
36.0							31.1	57.7	4 300*	36.0
38.0							15.4	52.8	3 700*	38.0

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Fixed Jib No. 138 At 3 Degree Offset Angle On
Luffing Jib No. 135 On Boom No. 22EL
81 240 kg Crane Counterweight
19 960 kg Carbody Counterweight
8 585 mm Crawlers Extended
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48.8m (160 Ft.) Boom, 48.8m (160 Ft.) Luffing Jib 9.1m (30 Ft.) - 18.3m (60 Ft.) Fixed Jib

Int. Fall Oper. Rad. Meters	88 Degree Boom Angle			83 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. Meters
	Jib Angle Degrees	Intermediate Fall		Jib Angle Degrees	Intermediate Fall		Jib Angle Degrees	Intermediate Fall		
		Elev. Meters	Capacity Kilograms		Elev. Meters	Capacity Kilograms		Elev. Meters	Capacity Kilograms	
10.7	71.8	69.5	6 800*						10.7	
12.0	67.6	69.0	6 800*						12.0	
14.0	60.9	68.0	6 800*						14.0	
16.0	53.9	66.6	6 500*	68.3	68.7	6 800*			16.0	
18.0	46.0	64.9	5 500*	61.7	67.7	6 800*			18.0	
20.0	36.9	62.5	4 500*	54.7	66.4	6 700*			20.0	
22.0	25.0	59.0	3 800*	47.0	64.7	5 800*			22.0	
24.0				38.1	62.5	4 700*			24.0	
26.0				26.7	59.1	3 900*			26.0	
32.0							49.8	62.7	6 300*	32.0
34.0							41.4	60.6	5 100*	34.0
36.0							31.1	57.7	4 200*	36.0
38.0							15.4	52.8	3 600*	38.0

48.8m (160 Ft.) Boom, 51.8m (170 Ft.) Luffing Jib 9.1m (30 Ft.) - 18.3m (60 Ft.) Fixed Jib

Int. Fall Oper. Rad. Meters	88 Degree Boom Angle			83 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. Meters
	Jib Angle Degrees	Intermediate Fall		Jib Angle Degrees	Intermediate Fall		Jib Angle Degrees	Intermediate Fall		
		Elev. Meters	Capacity Kilograms		Elev. Meters	Capacity Kilograms		Elev. Meters	Capacity Kilograms	
10.7	71.8	69.5	6 800*						10.7	
12.0	67.6	69.0	6 800*						12.0	
14.0	60.9	68.0	6 800*						14.0	
16.0	53.9	66.6	6 500*	68.3	68.7	6 800*			16.0	
18.0	46.0	64.9	5 500*	61.7	67.7	6 800*			18.0	
20.0	36.9	62.5	4 500*	54.7	66.4	6 700*			20.0	
22.0	25.0	59.0	3 800*	47.0	64.7	5 700*			22.0	
24.0				38.1	62.5	4 600*			24.0	
26.0				26.7	59.1	4 000*			26.0	
32.0							49.8	62.7	6 300*	32.0
34.0							41.4	60.6	5 100*	34.0
36.0							31.1	57.7	4 200*	36.0
38.0							15.4	52.8	3 200*	38.0



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81 240 kg Crane Counterweight
19 960 kg Carbody Counterweight
8 585 mm Crawlers Extended
360 Degree Rating

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54.9m (180 Ft.) Boom, 42.7m (140 Ft.) Luffing Jib 9.1m (30 Ft.) - 18.3m (60 Ft.) Fixed Jib

Int. Fall Oper. Rad. Meters	88 Degree Boom Angle			83 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. Meters
	Jib Angle Degrees	Intermediate Fall		Jib Angle Degrees	Intermediate Fall		Jib Angle Degrees	Intermediate Fall		
		Elev. Meters	Capacity Kilograms		Elev. Meters	Capacity Kilograms		Elev. Meters	Capacity Kilograms	
10.7	72.4	75.7	6 800*							10.7
12.0	68.2	75.2	6 800*							12.0
14.0	61.7	74.2	6 800*							14.0
16.0	54.6	72.9	6 800*							16.0
18.0	46.9	71.2	6 100*	64.2	74.2	6 800*				18.0
20.0	38.0	68.9	5 000*	57.4	73.0	6 800*				20.0
22.0	26.5	65.6	4 200*	50.0	71.5	6 500*				22.0
24.0				41.6	69.4	5 600*				24.0
26.0				31.4	66.6	4 500*				26.0
32.0							57.5	70.0	6 800*	32.0
34.0							50.1	68.4	6 600*	34.0
36.0							41.8	66.4	5 800*	36.0
38.0							31.6	63.6	4 700*	38.0

54.9m (180 Ft.) Boom, 45.7m (150 Ft.) Luffing Jib 9.1m (30 Ft.) - 18.3m (60 Ft.) Fixed Jib

Int. Fall Oper. Rad. Meters	88 Degree Boom Angle			83 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. Meters
	Jib Angle Degrees	Intermediate Fall		Jib Angle Degrees	Intermediate Fall		Jib Angle Degrees	Intermediate Fall		
		Elev. Meters	Capacity Kilograms		Elev. Meters	Capacity Kilograms		Elev. Meters	Capacity Kilograms	
10.7	72.4	75.7	6 800*							10.7
12.0	68.2	75.2	6 800*							12.0
14.0	61.7	74.2	6 800*							14.0
16.0	54.6	72.9	6 700*							16.0
18.0	46.9	71.2	5 900*	64.2	74.2	6 800*				18.0
20.0	38.0	68.9	4 800*	57.4	73.0	6 800*				20.0
22.0	26.5	65.6	4 000*	50.0	71.5	6 400*				22.0
24.0				41.6	69.4	5 200*				24.0
26.0				31.4	66.6	4 300*				26.0
32.0							57.5	70.0	6 800*	32.0
34.0							50.1	68.4	6 500*	34.0
36.0							41.8	66.4	5 500*	36.0
38.0							31.6	63.6	4 400	38.0

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81 240 kg Crane Counterweight
19 960 kg Carbody Counterweight
8 585 mm Crawlers Extended
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54.9m (180 Ft.) Boom, 48.8m (160 Ft.) Luffing Jib 9.1m (30 Ft.) - 18.3m (60 Ft.) Fixed Jib

Int. Fall Oper. Rad. Meters	88 Degree Boom Angle			83 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. Meters
	Jib Angle Degrees	Intermediate Fall		Jib Angle Degrees	Intermediate Fall		Jib Angle Degrees	Intermediate Fall		
		Elev. Meters	Capacity Kilograms		Elev. Meters	Capacity Kilograms		Elev. Meters	Capacity Kilograms	
10.7	72.4	75.7	6 800*						10.7	
12.0	68.2	75.2	6 800*						12.0	
14.0	61.7	74.2	6 800*						14.0	
16.0	54.6	72.9	6 600*						16.0	
18.0	46.9	71.2	5 700*	64.2	74.2	6 800*			18.0	
20.0	38.0	68.9	4 600*	57.4	73.0	6 800*			20.0	
22.0	26.5	65.6	3 900*	50.0	71.5	6 300*			22.0	
24.0				41.6	69.4	5 100*			24.0	
26.0				31.4	66.6	4 200*			26.0	
32.0							57.5	70.0	6 800*	32.0
34.0							50.1	68.4	6 300	34.0
36.0							41.8	66.4	4 900	36.0
38.0							31.6	63.6	3 600	38.0

54.9m (180 Ft.) Boom, 51.8m (170 Ft.) Luffing Jib 9.1m (30 Ft.) - 18.3m (60 Ft.) Fixed Jib

Int. Fall Oper. Rad. Meters	88 Degree Boom Angle			83 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. Meters
	Jib Angle Degrees	Intermediate Fall		Jib Angle Degrees	Intermediate Fall		Jib Angle Degrees	Intermediate Fall		
		Elev. Meters	Capacity Kilograms		Elev. Meters	Capacity Kilograms		Elev. Meters	Capacity Kilograms	
10.7	72.4	75.7	6 800*						10.7	
12.0	68.2	75.2	6 800*						12.0	
14.0	61.7	74.2	6 800*						14.0	
16.0	54.6	72.9	6 600*						16.0	
18.0	46.9	71.2	5 700*	64.2	74.2	6 800*			18.0	
20.0	38.0	68.9	4 700*	57.4	73.0	6 800*			20.0	
22.0	26.5	65.6	4 000*	50.0	71.5	6 300*			22.0	
24.0				41.6	69.4	5 100*			24.0	
26.0				31.4	66.6	4 200*			26.0	
32.0							57.5	70.0	6 800*	32.0
34.0							50.1	68.4	5 700	34.0
36.0							41.8	66.4	4 300	36.0
38.0							31.6	63.6	3 000	38.0



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Fixed Jib No. 138 At 3 Degree Offset Angle On
Luffing Jib No. 135 On Boom No. 22EL
81 240 kg Crane Counterweight
19 960 kg Carbody Counterweight
8 585 mm Crawlers Extended
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57.9m (190 Ft.) Boom, 42.7m (140 Ft.) Luffing Jib 9.1m (30 Ft.) - 18.3m (60 Ft.) Fixed Jib

Int. Fall Oper. Rad. Meters	88 Degree Boom Angle			83 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. Meters
	Jib Angle Degrees	Intermediate Fall		Jib Angle Degrees	Intermediate Fall		Jib Angle Degrees	Intermediate Fall		
		Elev. Meters	Capacity Kilograms		Elev. Meters	Capacity Kilograms		Elev. Meters	Capacity Kilograms	
10.7	72.8	78.8	6 800*							10.7
12.0	68.6	78.3	6 800*							12.0
14.0	62.0	77.3	6 800*							14.0
16.0	55.0	76.0	6 800*							16.0
18.0	47.3	74.3	6 200*	65.4	77.4	6 800*				18.0
20.0	38.5	72.1	5 100*	58.7	76.3	6 800*				20.0
22.0	27.2	68.8	4 300*	51.4	74.8	6 700*				22.0
24.0				43.2	72.9	5 900*				24.0
26.0				33.5	70.2	4 800*				26.0
28.0				19.7	66.0	4 000*				28.0
34.0							54.1	72.2	6 700	34.0
36.0							46.3	70.4	5 900	36.0
38.0							37.2	68.1	4 700	38.0
40.0							25.5	64.6	3 600	40.0

57.9m (190 Ft.) Boom, 45.7m (150 Ft.) Luffing Jib 9.1m (30 Ft.) - 18.3m (60 Ft.) Fixed Jib

Int. Fall Oper. Rad. Meters	88 Degree Boom Angle			83 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. Meters
	Jib Angle Degrees	Intermediate Fall		Jib Angle Degrees	Intermediate Fall		Jib Angle Degrees	Intermediate Fall		
		Elev. Meters	Capacity Kilograms		Elev. Meters	Capacity Kilograms		Elev. Meters	Capacity Kilograms	
10.7	72.8	78.8	6 800*							10.7
12.0	68.6	78.3	6 800*							12.0
14.0	62.0	77.3	6 800*							14.0
16.0	55.0	76.0	6 800*							16.0
18.0	47.3	74.3	5 900*	65.4	77.4	6 800*				18.0
20.0	38.5	72.1	4 900*	58.7	76.3	6 800*				20.0
22.0	27.2	68.8	4 100*	51.4	74.8	6 500*				22.0
24.0				43.2	72.9	5 500*				24.0
26.0				33.5	70.2	4 500*				26.0
28.0				19.7	66.0	3 800*				28.0
34.0							54.1	72.2	6 500	34.0
36.0							46.3	70.4	5 500	36.0
38.0							37.2	68.1	4 300	38.0
40.0							25.5	64.6	3 200	40.0

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19 960 kg Carbody Counterweight
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57.9m (190 Ft.) Boom, 48.8m (160 Ft.) Luffing Jib 9.1m (30 Ft.) - 18.3m (60 Ft.) Fixed Jib

Int. Fall Oper. Rad. Meters	88 Degree Boom Angle			83 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. Meters
	Jib Angle Degrees	Intermediate Fall		Jib Angle Degrees	Intermediate Fall		Jib Angle Degrees	Intermediate Fall		
		Elev. Meters	Capacity Kilograms		Elev. Meters	Capacity Kilograms		Elev. Meters	Capacity Kilograms	
10.7	72.8	78.8	6 800*						10.7	
12.0	68.6	78.3	6 800*						12.0	
14.0	62.0	77.3	6 800*						14.0	
16.0	55.0	76.0	6 700*						16.0	
18.0	47.3	74.3	5 900*	65.4	77.4	6 800*			18.0	
20.0	38.5	72.1	4 700*	58.7	76.3	6 800*			20.0	
22.0	27.2	68.8	4 000*	51.4	74.8	6 400*			22.0	
24.0				43.2	72.9	5 400*			24.0	
26.0				33.5	70.2	4 400*			26.0	
28.0				19.7	66.0	3 700*			28.0	
34.0							54.1	72.2	6 200	34.0
36.0							46.3	70.4	4 800	36.0
38.0							37.2	68.1	3 600	38.0
40.0							25.5	64.6	2 500	40.0

57.9m (190 Ft.) Boom, 51.8m (170 Ft.) Luffing Jib 9.1m (30 Ft.) - 18.3m (60 Ft.) Fixed Jib

Int. Fall Oper. Rad. Meters	88 Degree Boom Angle			83 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. Meters
	Jib Angle Degrees	Intermediate Fall		Jib Angle Degrees	Intermediate Fall		Jib Angle Degrees	Intermediate Fall		
		Elev. Meters	Capacity Kilograms		Elev. Meters	Capacity Kilograms		Elev. Meters	Capacity Kilograms	
10.7	72.8	78.8	6 800*						10.7	
12.0	68.6	78.3	6 800*						12.0	
14.0	62.0	77.3	6 800*						14.0	
16.0	55.0	76.0	6 700*						16.0	
18.0	47.3	74.3	5 800*	65.4	77.4	6 800*			18.0	
20.0	38.5	72.1	4 700*	58.7	76.3	6 800*			20.0	
22.0	27.2	68.8	4 000*	51.4	74.8	6 400*			22.0	
24.0				43.2	72.9	5 300*			24.0	
26.0				33.5	70.2	4 400*			26.0	
28.0				19.7	66.0	3 800*			28.0	
34.0							54.1	72.2	5 600	34.0
36.0							46.3	70.4	4 200	36.0
38.0							37.2	68.1	3 000	38.0



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Luffing Jib No. 135 On Boom No. 22EL
81 240 kg Crane Counterweight
19 960 kg Carbody Counterweight
8 585 mm Crawlers Extended
360 Degree Rating

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61.0m (200 Ft.) Boom, 42.7m (140 Ft.) Luffing Jib 9.1m (30 Ft.) - 18.3m (60 Ft.) Fixed Jib

Int. Fall Oper. Rad. Meters	88 Degree Boom Angle			83 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. Meters
	Jib Angle Degrees	Intermediate Fall		Jib Angle Degrees	Intermediate Fall		Jib Angle Degrees	Intermediate Fall		
		Elev. Meters	Capacity Kilograms		Elev. Meters	Capacity Kilograms		Elev. Meters	Capacity Kilograms	
10.7	73.1	81.9	6 800*							10.7
12.0	68.9	81.4	6 800*							12.0
14.0	62.4	80.4	6 800*							14.0
16.0	55.4	79.1	6 800*							16.0
18.0	47.8	77.5	6 300*	66.7	80.6	6 800*				18.0
20.0	39.0	75.3	5 200*	60.0	79.5	6 800*				20.0
22.0	27.9	72.1	4 400*	52.8	78.1	6 800*				22.0
24.0				44.8	76.3	6 100*				24.0
26.0				35.5	73.8	5 000*				26.0
28.0				22.9	70.1	4 100*				28.0
36.0							50.5	74.2	5 800	36.0
38.0							42.2	72.3	4 600	38.0
40.0							32.1	69.5	3 600	40.0
42.0							17.3	64.9	2 600	42.0

61.0m (200 Ft.) Boom, 45.7m (150 Ft.) Luffing Jib 9.1m (30 Ft.) - 18.3m (60 Ft.) Fixed Jib

Int. Fall Oper. Rad. Meters	88 Degree Boom Angle			83 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. Meters
	Jib Angle Degrees	Intermediate Fall		Jib Angle Degrees	Intermediate Fall		Jib Angle Degrees	Intermediate Fall		
		Elev. Meters	Capacity Kilograms		Elev. Meters	Capacity Kilograms		Elev. Meters	Capacity Kilograms	
10.7	73.1	81.9	6 800*							10.7
12.0	68.9	81.4	6 800*							12.0
14.0	62.4	80.4	6 800*							14.0
16.0	55.4	79.1	6 800*							16.0
18.0	47.8	77.5	6 000*	66.7	80.6	6 800*				18.0
20.0	39.0	75.3	4 900*	60.0	79.5	6 800*				20.0
22.0	27.9	72.1	4 100*	52.8	78.1	6 700*				22.0
24.0				44.8	76.3	5 900*				24.0
26.0				35.5	73.8	4 700*				26.0
28.0				22.9	70.1	3 900*				28.0
36.0							50.5	74.2	5 400	36.0
38.0							42.2	72.3	4 200	38.0
40.0							32.1	69.5	3 200	40.0
42.0							17.3	64.9	2 100	42.0