



Shenzhen Belling Efficiency Testing Laboratory Co., Ltd.
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LumCAT:

Luminaire:

Report No:

Test No:

LampCAT:

Lamp flux(lm): 828.4

Number of Lamps: 1

Length(mm): 0

Phm Type: C

Voltage(V): 120.06

Current(A): 0.0545

Power (W): 6.2450

PF: 0.9539

Ballast type:

Width(mm): 0

Height(mm): 0

Photometric Results

Lumens(lm): 828.41

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 132.65

Central intensity(cd): 299.632

Maximum intensity(cd): 299.632

Angle of maximum intensity: $C=0.0$ $\gamma=0.0$

Beam Angle(50%Imax): [C0/180]Total=100.5

[C90/270]Total=117.0

Field angle(10%Imax): [C0/180]Total=156.9

[C90/270]Total=161.9

Maximum s/h(1/2): C0_180=1.30 C90_270=1.30

Maximum s/h(1/4): C0_180=1.85 C90_270=1.41

Up flux rate of lamp(%): 0.84%

Down flux rate of lamp(%): 99.16%

Up flux rate of LUM(%): 0.84%

Down flux rate of LUM(%): 99.16%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 79.905%

Equipment: GMS-3000
Temperature(°C): 25

Date:
Humidity(%): 58%

Operator: Zac

Zonal flux distribution table

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$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	296.343	.000	.000	.000%	.000%
5.0	295.560	7.076	7.076	.854%	.854%
10.0	292.689	21.044	28.120	2.540%	3.394%
15.0	287.534	34.418	62.538	4.155%	7.549%
20.0	279.743	46.752	109.290	5.644%	13.193%
25.0	269.407	57.596	166.885	6.953%	20.145%
30.0	256.632	66.571	233.456	8.036%	28.181%
35.0	237.552	72.772	306.228	8.784%	36.966%
40.0	218.825	76.143	382.371	9.191%	46.157%
45.0	194.995	76.622	458.993	9.249%	55.406%
50.0	171.101	73.975	532.968	8.930%	64.336%
55.0	144.374	68.595	601.563	8.280%	72.616%
60.0	116.838	60.378	661.941	7.288%	79.905%
65.0	92.004	50.770	712.711	6.129%	86.033%
70.0	69.218	40.822	753.534	4.928%	90.961%
75.0	48.299	30.717	784.251	3.708%	94.669%
80.0	28.763	20.619	804.870	2.489%	97.158%
85.0	13.194	11.401	816.271	1.376%	98.534%
90.0	5.794	5.199	821.470	.628%	99.162%
95.0	1.944	2.119	823.589	.256%	99.418%
100.0	1.775	1.011	824.599	.122%	99.539%
105.0	1.866	.974	825.573	.118%	99.657%
110.0	1.240	.812	826.385	.098%	99.755%
115.0	.692	.489	826.874	.059%	99.814%
120.0	.274	.235	827.109	.028%	99.842%
125.0	.300	.133	827.242	.016%	99.859%
130.0	.287	.128	827.370	.015%	99.874%
135.0	.405	.140	827.509	.017%	99.891%
140.0	.392	.147	827.657	.018%	99.909%
145.0	.457	.142	827.798	.017%	99.926%
150.0	.535	.146	827.944	.018%	99.943%
155.0	.535	.135	828.080	.016%	99.960%
160.0	.548	.114	828.193	.014%	99.973%
165.0	.574	.092	828.286	.011%	99.985%
170.0	.600	.070	828.356	.008%	99.993%
175.0	.626	.044	828.399	.005%	99.998%
180.0	.626	.015	828.414	.002%	100.000%

Equipment: GMS-3000
Temperature($^{\circ}\text{C}$): 25

Date:
Humidity(%): 58%

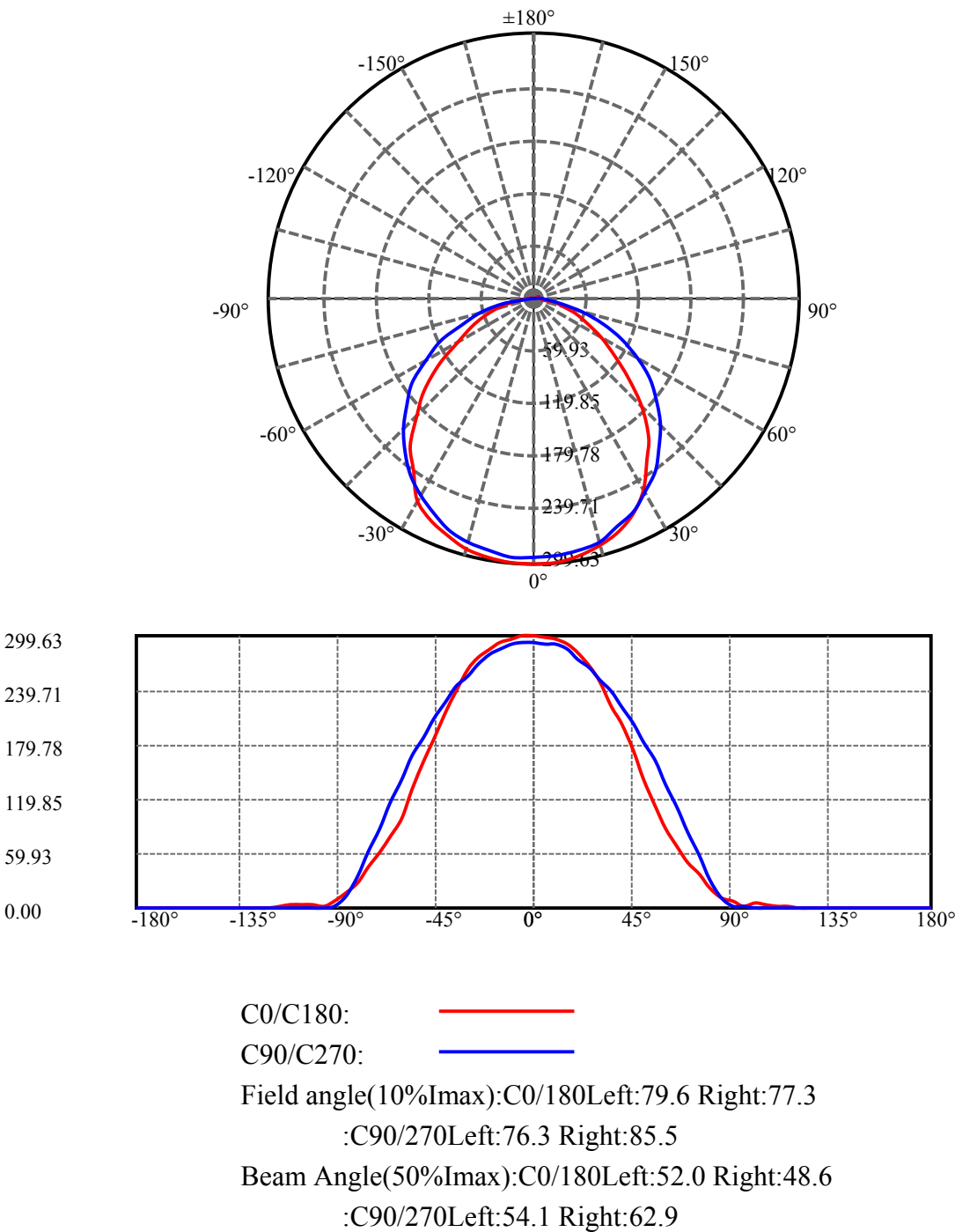
Operator: Zac

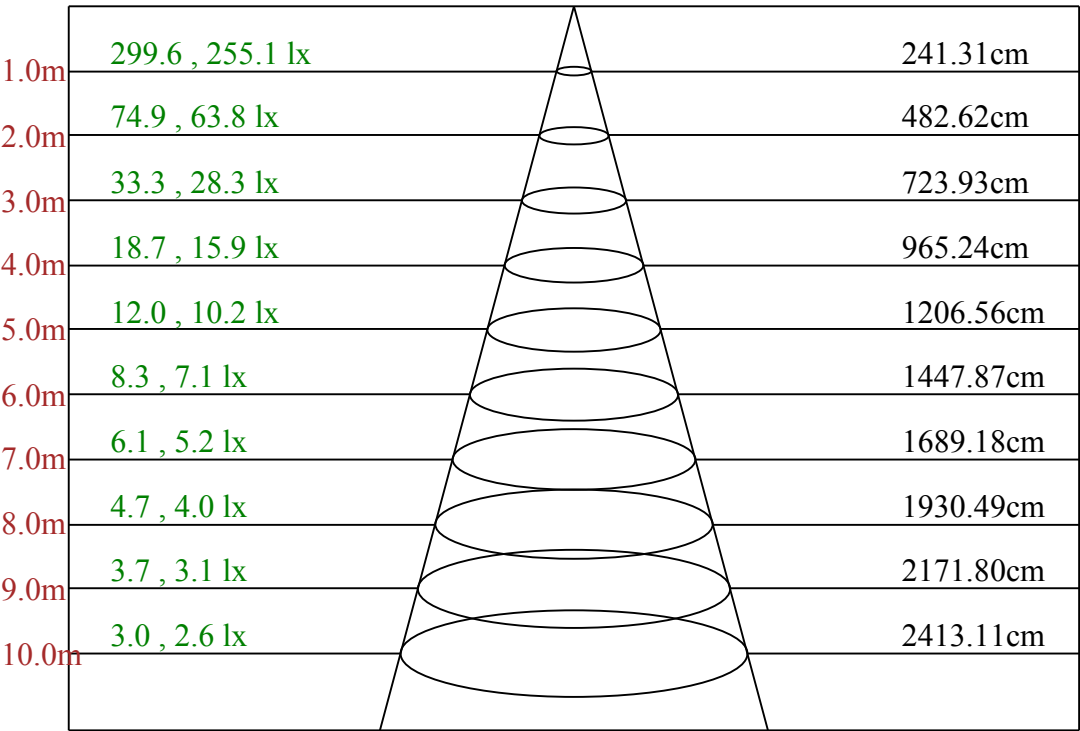
ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	233.46	28.18%	28.18%
0-40	382.37	46.16%	46.16%
0-60	661.94	79.90%	79.90%
0-90	821.47	99.16%	99.16%
0-120	827.11	99.84%	99.84%
0-180	828.41	100.00%	100.00%
60-90	219.91	26.55%	26.55%
90-120	10.84	1.31%	1.31%
90-130	11.10	1.34%	1.34%
90-150	11.67	1.41%	1.41%
90-180	12.13	1.46%	1.46%
0-60.08	662.73	80.00%	80.00%

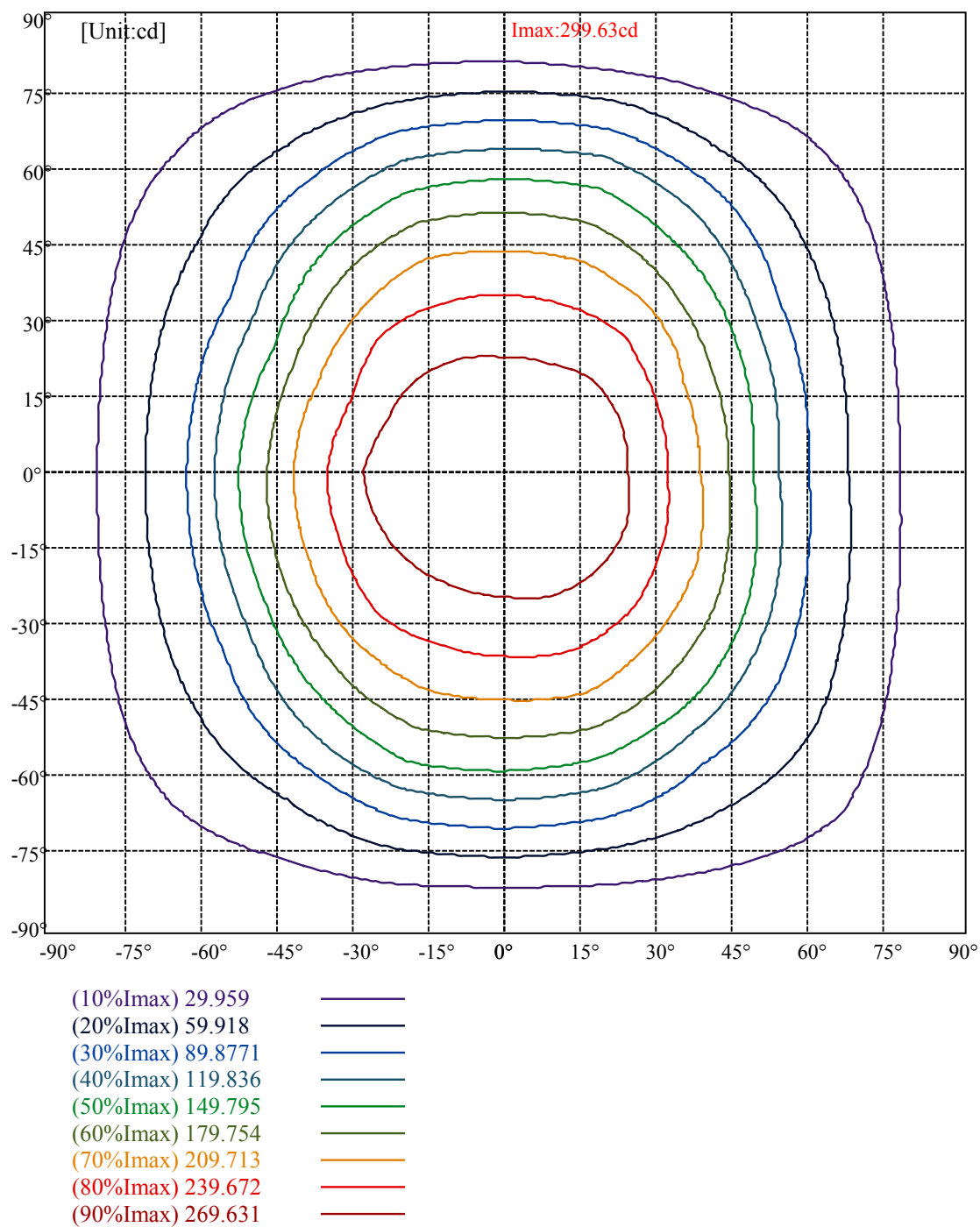
ZONAL LUMEN SUMMARY

0-10	28.12
10-20	81.17
20-30	124.17
30-40	148.92
40-50	150.60
50-60	128.97
60-70	91.59
70-80	51.34
80-90	16.60
90-100	3.13
100-110	1.79
110-120	0.72
120-130	0.26
130-140	0.29
140-150	0.29
150-160	0.25
160-170	0.16
170-180	0.04





Max , Ave Beam angle of C0plane100.58



Intensity data(cd)

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C/ $\gamma(^{\circ})$	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	299.63	297.96	295.46	289.40	281.05	267.06	249.94	221.54	203.17
22.5	297.34	296.92	293.79	288.57	280.21	268.94	255.37	223.00	203.79
45.0	296.08	295.46	292.32	286.48	279.59	268.94	256.41	239.29	222.79
67.5	294.20	292.74	288.77	283.55	275.41	265.18	253.07	238.04	222.17
90.0	292.74	290.86	289.61	283.97	274.37	264.34	251.82	238.66	220.70
112.5	295.66	295.04	291.91	285.43	276.87	267.06	254.74	239.50	223.42
135.0	296.71	295.66	293.16	287.10	279.17	268.94	255.99	241.79	215.48
157.5	298.38	297.34	294.41	288.15	280.21	269.36	252.65	229.27	209.01
180.0	299.63	299.42	296.08	291.91	285.02	276.04	263.30	237.41	216.74
202.5	297.34	297.13	294.62	289.61	282.72	272.70	261.00	238.04	215.48
225.0	296.08	295.04	292.53	287.31	279.59	269.77	259.75	244.30	229.06
247.5	294.20	293.16	289.40	285.02	277.71	268.10	257.25	242.21	226.76
270.0	292.74	292.95	289.40	285.22	278.33	268.31	255.78	243.05	226.13
292.5	295.66	295.66	292.32	288.15	280.42	271.65	260.17	246.60	229.68
315.0	296.71	296.08	293.37	288.98	281.68	272.28	259.33	244.72	221.54
337.5	298.38	297.54	295.87	291.70	283.55	271.86	259.54	233.44	215.28
360.0	299.63	297.96	295.46	289.40	281.05	267.06	249.94	221.54	203.17
C/ $\gamma(^{\circ})$	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	172.68	140.73	111.50	87.70	67.03	51.16	36.54	22.34	11.69
22.5	176.44	153.47	121.73	92.08	70.78	53.87	38.84	22.55	11.48
45.0	190.22	167.88	140.94	118.18	89.16	61.18	39.67	22.34	9.81
67.5	203.79	182.49	161.20	137.60	111.50	81.02	53.45	25.68	10.02
90.0	202.96	182.70	160.99	135.72	110.46	83.73	57.21	31.53	10.44
112.5	205.46	183.54	159.53	134.05	108.16	78.93	51.99	29.65	12.32
135.0	195.65	169.34	141.78	113.59	86.44	64.31	44.27	26.94	12.95
157.5	181.45	147.83	122.36	92.08	73.50	57.42	40.93	24.64	12.53
180.0	186.25	162.45	130.29	98.35	78.30	60.55	44.06	28.61	15.87
202.5	192.52	161.20	128.41	98.14	76.63	59.93	43.85	28.82	15.24
225.0	196.69	174.98	146.58	120.06	90.83	64.10	45.52	28.19	13.36
247.5	208.59	188.97	166.42	143.24	111.92	85.19	58.47	34.87	13.36
270.0	207.97	187.30	166.83	141.99	114.84	88.12	61.60	35.29	12.95
292.5	211.52	191.26	163.70	139.48	111.71	83.52	57.42	34.45	15.87
315.0	199.82	177.07	152.01	116.72	88.53	69.53	50.53	32.16	16.08
337.5	187.92	166.42	135.72	100.43	82.27	64.94	48.44	32.16	17.12
360.0	172.68	140.73	111.50	87.70	67.03	51.16	36.54	22.34	11.69
C/ $\gamma(^{\circ})$	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	7.93	1.04	5.64	4.39	2.71	1.04	0.00	0.00	0.00
22.5	7.52	0.84	2.51	1.04	0.84	0.42	0.21	0.42	0.21
45.0	5.64	2.51	0.84	2.30	1.04	0.84	0.42	0.84	0.63
67.5	3.13	1.88	0.21	0.84	0.42	0.21	0.42	0.42	0.63
90.0	1.67	1.25	0.21	0.42	0.42	0.63	0.42	0.42	0.42
112.5	4.39	2.71	0.21	1.46	0.84	0.84	0.42	0.21	0.42
135.0	6.47	1.04	3.13	1.25	0.63	0.63	0.42	0.63	0.42
157.5	7.73	0.84	2.51	3.55	2.71	1.67	0.63	0.63	0.63
180.0	8.35	2.71	4.39	4.59	3.34	1.88	0.21	0.00	0.21
202.5	7.52	1.46	4.39	2.09	0.84	0.21	0.00	0.00	0.21
225.0	5.64	3.76	0.00	2.30	1.67	1.04	0.63	0.42	0.00
247.5	2.92	2.09	0.21	0.00	0.63	0.21	0.21	0.00	0.21
270.0	1.88	0.63	0.00	0.00	0.00	0.00	0.00	0.21	0.00
292.5	5.43	3.13	0.21	1.25	1.04	0.42	0.21	0.21	0.21
315.0	7.73	2.92	2.09	2.30	1.04	0.63	0.21	0.00	0.21
337.5	8.77	2.30	1.88	2.09	1.67	0.42	0.00	0.42	0.21
360.0	7.93	1.04	5.64	4.39	2.71	1.04	0.00	0.00	0.00

Intensity data(cd)									Page: 8 Total:8
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.21	0.00	0.21	0.21	0.21	0.21	0.42	0.21	0.21
22.5	0.63	0.42	0.42	0.42	0.63	0.63	0.42	0.63	0.42
45.0	0.42	0.42	0.63	0.84	0.63	0.42	0.84	0.84	0.84
67.5	0.42	0.63	0.42	0.84	0.63	0.84	0.63	0.42	0.84
90.0	0.63	0.63	0.63	0.63	0.84	0.42	0.84	0.84	0.63
112.5	0.63	0.63	0.63	0.63	0.84	0.63	0.63	0.63	0.63
135.0	0.84	0.63	0.84	0.63	0.42	0.84	0.63	0.63	0.63
157.5	0.63	0.63	0.42	0.63	0.63	0.84	0.63	0.63	0.84
180.0	0.00	0.21	0.42	0.42	0.42	0.21	0.21	0.42	0.63
202.5	0.42	0.21	0.00	0.63	0.42	0.42	0.63	0.84	0.63
225.0	0.42	0.21	0.42	0.42	0.63	0.63	0.63	0.63	0.63
247.5	0.21	0.21	0.42	0.42	0.63	0.42	0.42	0.63	0.63
270.0	0.42	0.42	0.42	0.42	0.42	0.63	0.63	0.63	0.63
292.5	0.21	0.21	0.63	0.42	0.42	0.63	0.63	0.63	0.42
315.0	0.21	0.42	0.42	0.63	0.21	0.42	0.42	0.63	0.63
337.5	0.21	0.42	0.42	0.42	0.63	0.63	0.63	0.42	0.84
360.0	0.21	0.00	0.21	0.21	0.21	0.21	0.42	0.21	0.21
C/γ(°)	180.0								
0.0	0.21								
22.5	0.63								
45.0	0.63								
67.5	0.63								
90.0	0.63								
112.5	0.63								
135.0	0.84								
157.5	0.84								
180.0	0.21								
202.5	0.63								
225.0	0.63								
247.5	0.63								
270.0	0.63								
292.5	0.63								
315.0	0.84								
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360.0	0.21								