



Shenzhen Belling Efficiency Testing Laboratory Co., Ltd.
www.bellingtest.com

Tel: 0755-21038430

Address: 1 F, No. 1 building, Meibaohe industrial park, Dalang street, Longhua district, Shenzhen, China

LumCAT:

Luminaire:

Report No:

Test No:

LampCAT:

Lamp flux(lm): 2250.6

Number of Lamps: 1

Length(mm): 0

Phm Type: C

Voltage(V): 120.12

Current(A): 0.1347

Power (W): 16.0030

PF: 0.9889

Ballast type:

Width(mm): 0

Height(mm): 0

Photometric Results

Lumens(lm): 2250.59

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 140.64

Central intensity(cd): 780.504

Maximum intensity(cd): 780.504

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

Beam Angle(50%Imax): [C0/180]Total=112.9

[C90/270]Total=116.3

Field angle(10%Imax): [C0/180]Total=157.3

[C90/270]Total=160.4

Maximum s/h(1/2): C0_180=1.30 C90_270=1.28

Maximum s/h(1/4): C0_180=1.85 C90_270=1.40

Up flux rate of lamp(%): 0.19%

Down flux rate of lamp(%): 99.81%

Up flux rate of LUM(%): 0.19%

Down flux rate of LUM(%): 99.81%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 78.894%

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

Date:
Humidity(%): 58%

Operator: Zac

Zonal flux distribution table

Page: 2 Total:8

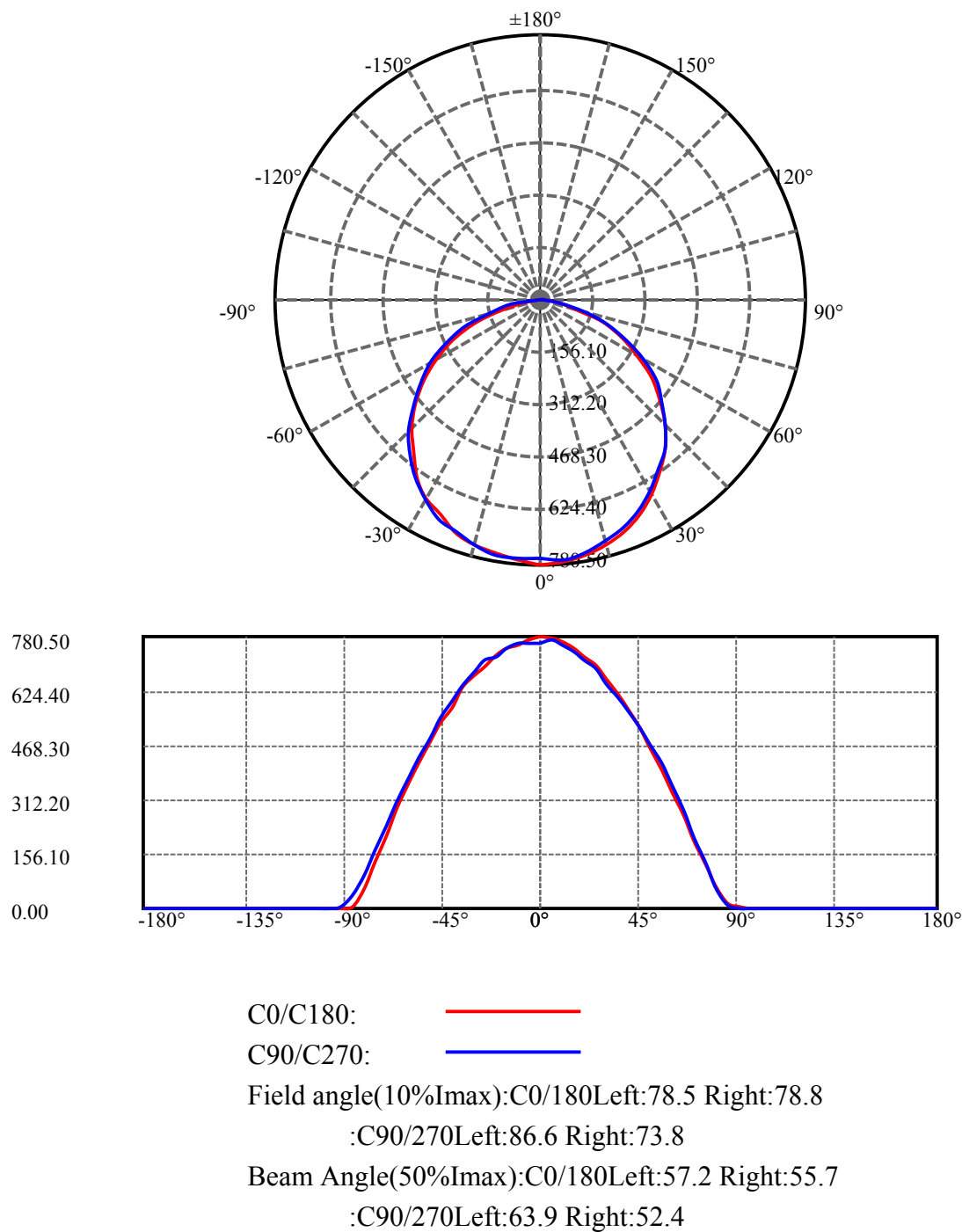
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	771.786	.000	.000	.000%	.000%
5.0	766.318	18.388	18.388	.817%	.817%
10.0	755.891	54.454	72.842	2.420%	3.237%
15.0	741.653	88.833	161.675	3.947%	7.184%
20.0	723.057	120.713	282.388	5.364%	12.547%
25.0	695.260	148.755	431.143	6.610%	19.157%
30.0	662.204	171.788	602.931	7.633%	26.790%
35.0	624.280	189.444	792.375	8.418%	35.207%
40.0	579.218	200.795	993.170	8.922%	44.129%
45.0	530.254	205.428	1198.598	9.128%	53.257%
50.0	477.101	203.551	1402.148	9.044%	62.301%
55.0	418.088	194.644	1596.792	8.649%	70.950%
60.0	355.343	178.776	1775.568	7.944%	78.893%
65.0	287.143	156.189	1931.758	6.940%	85.833%
70.0	215.810	127.351	2059.109	5.659%	91.492%
75.0	143.578	93.938	2153.047	4.174%	95.666%
80.0	75.808	58.702	2211.749	2.608%	98.274%
85.0	23.856	27.081	2238.830	1.203%	99.477%
90.0	3.354	7.450	2246.280	.331%	99.808%
95.0	.274	.993	2247.273	.044%	99.853%
100.0	.300	.156	2247.429	.007%	99.860%
105.0	.287	.157	2247.586	.007%	99.867%
110.0	.235	.137	2247.723	.006%	99.873%
115.0	.339	.145	2247.868	.006%	99.879%
120.0	.457	.194	2248.062	.009%	99.888%
125.0	.522	.226	2248.288	.010%	99.898%
130.0	.666	.258	2248.547	.011%	99.909%
135.0	.783	.293	2248.839	.013%	99.922%
140.0	.861	.304	2249.144	.014%	99.936%
145.0	.926	.298	2249.442	.013%	99.949%
150.0	.979	.281	2249.723	.012%	99.961%
155.0	.992	.249	2249.972	.011%	99.973%
160.0	1.083	.218	2250.189	.010%	99.982%
165.0	1.031	.174	2250.364	.008%	99.990%
170.0	1.044	.123	2250.487	.005%	99.995%
175.0	1.083	.076	2250.563	.003%	99.999%
180.0	1.070	.026	2250.589	.001%	100.000%

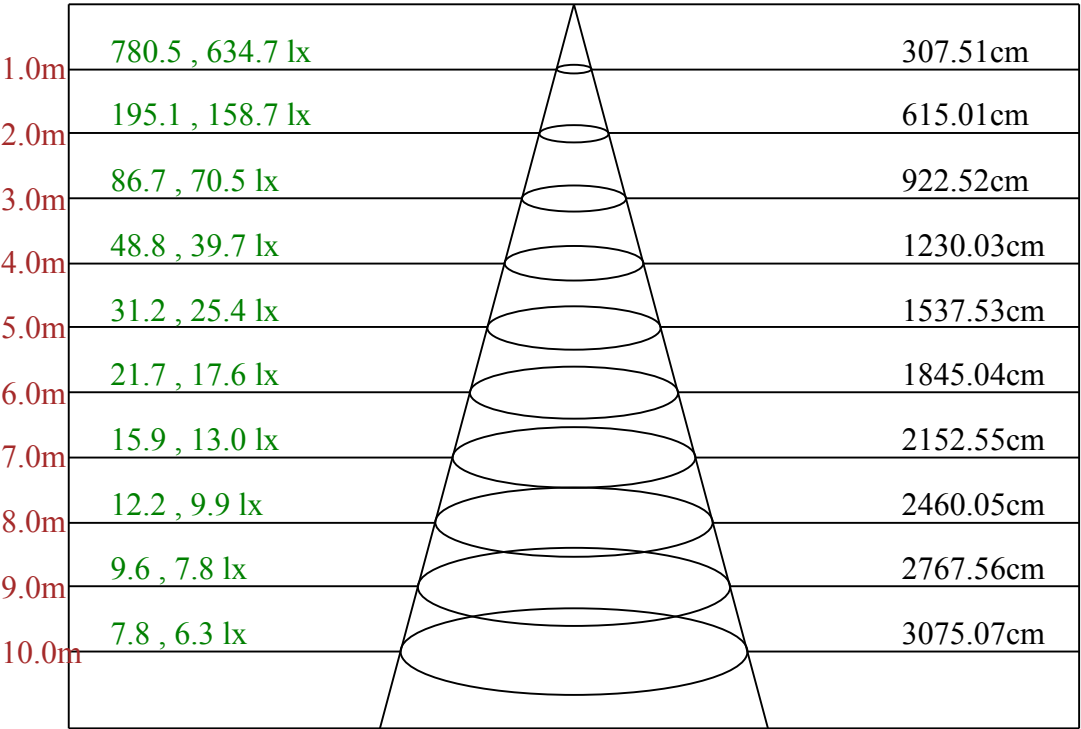
ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	602.93	26.79%	26.79%
0-40	993.17	44.13%	44.13%
0-60	1775.57	78.89%	78.89%
0-90	2246.28	99.81%	99.81%
0-120	2248.06	99.89%	99.89%
0-180	2250.59	100.00%	100.00%
60-90	649.49	28.86%	28.86%
90-120	9.23	0.41%	0.41%
90-130	9.72	0.43%	0.43%
90-150	10.89	0.48%	0.48%
90-180	11.73	0.52%	0.52%
0-60.80	1800.47	80.00%	80.00%

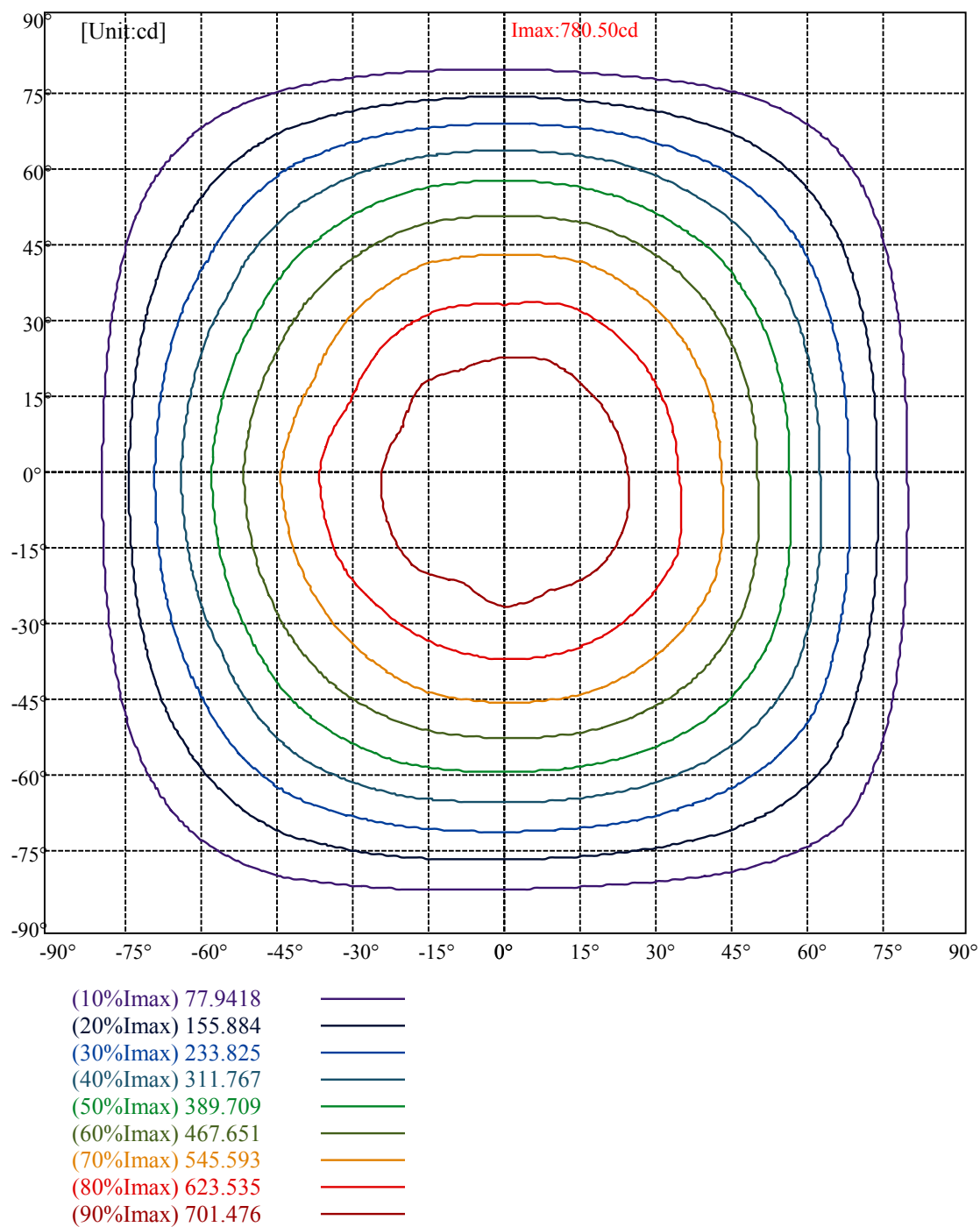
ZONAL LUMEN SUMMARY

0-10	72.84
10-20	209.55
20-30	320.54
30-40	390.24
40-50	408.98
50-60	373.42
60-70	283.54
70-80	152.64
80-90	34.53
90-100	1.15
100-110	0.29
110-120	0.34
120-130	0.48
130-140	0.60
140-150	0.58
150-160	0.47
160-170	0.30
170-180	0.08





Max , Ave Beam angle of C0plane113.89



Intensity data(cd)

Page: 7 Total:8

C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	780.50	775.08	763.59	747.10	724.55	696.36	657.31	614.72	569.82
22.5	778.00	772.57	761.09	743.96	719.12	690.51	652.30	614.09	568.57
45.0	770.69	768.18	756.07	741.04	716.19	688.00	652.72	616.18	570.66
67.5	771.53	766.31	754.61	740.41	719.33	692.81	660.65	620.14	578.17
90.0	760.88	770.69	758.58	736.66	714.31	686.96	646.04	604.48	568.78
112.5	765.47	756.70	745.84	728.30	709.72	683.41	650.84	615.76	572.95
135.0	777.16	761.50	754.20	732.69	719.53	692.18	653.34	613.88	565.02
157.5	770.06	755.87	745.84	737.91	712.43	680.28	646.45	603.65	553.12
180.0	780.50	768.39	755.45	748.14	728.09	694.48	671.30	636.85	576.92
202.5	778.00	765.68	753.57	747.10	741.46	700.12	668.59	635.60	582.98
225.0	770.69	762.13	746.26	731.23	730.18	703.87	665.04	626.62	583.39
247.5	771.53	766.51	748.56	732.69	717.65	689.88	669.42	630.79	590.08
270.0	760.88	761.50	760.25	745.01	724.34	710.56	679.24	637.89	594.25
292.5	765.47	764.22	758.37	743.55	724.13	700.32	672.14	639.56	597.59
315.0	777.16	774.03	764.01	757.12	735.61	708.47	675.48	637.89	596.76
337.5	770.06	771.73	767.98	753.57	732.27	705.96	674.43	640.40	598.43
360.0	780.50	775.08	763.59	747.10	724.55	696.36	657.31	614.72	569.82
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	518.25	460.83	399.65	334.71	266.85	195.44	125.91	62.22	16.08
22.5	519.50	464.38	404.24	339.51	271.23	200.45	129.04	64.52	15.24
45.0	520.55	467.30	408.21	340.98	273.11	202.96	130.08	63.69	12.32
67.5	527.85	473.98	413.43	351.62	282.51	202.33	128.21	55.12	11.28
90.0	520.75	468.14	416.35	352.67	281.88	204.63	133.01	59.72	11.28
112.5	526.39	472.31	413.85	351.21	280.21	204.42	129.88	62.64	13.78
135.0	514.91	460.62	397.98	338.89	273.53	204.84	128.62	63.06	15.66
157.5	504.88	458.32	391.92	328.03	254.53	186.25	118.39	59.93	14.83
180.0	534.95	479.20	416.56	356.64	286.27	207.76	129.88	56.38	3.34
202.5	524.30	474.19	415.73	342.44	274.99	212.35	140.32	78.72	35.50
225.0	532.45	483.17	426.17	367.91	305.48	238.04	168.71	102.10	44.48
247.5	545.81	489.43	437.65	378.77	311.74	240.96	172.05	103.36	41.55
270.0	546.44	489.22	432.85	371.88	305.06	238.04	165.79	95.63	38.42
292.5	550.40	498.83	438.07	375.85	308.61	238.66	164.95	92.71	35.91
315.0	548.32	498.20	440.16	378.77	309.65	236.57	166.21	96.88	35.91
337.5	548.32	495.49	436.61	375.64	308.61	239.29	166.21	96.26	36.12
360.0	518.25	460.83	399.65	334.71	266.85	195.44	125.91	62.22	16.08
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	3.55	0.21	0.00	0.21	0.00	0.42	0.21	0.42	0.42
22.5	3.97	0.42	0.21	0.42	0.42	0.42	0.63	0.63	0.63
45.0	2.92	0.42	0.42	0.42	0.42	0.63	0.63	0.84	0.84
67.5	1.67	0.42	0.84	0.42	0.42	0.63	0.63	1.04	0.84
90.0	1.04	0.42	0.42	0.63	0.42	0.63	0.84	0.42	1.04
112.5	1.04	0.21	0.63	0.63	0.42	0.63	0.84	0.63	0.63
135.0	0.63	0.21	0.21	0.42	0.42	0.63	0.63	0.63	1.04
157.5	0.84	0.42	0.42	0.42	0.42	0.42	0.63	0.63	0.84
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.21
202.5	6.47	0.00	0.00	0.00	0.21	0.00	0.21	0.21	0.42
225.0	6.89	0.00	0.00	0.00	0.00	0.21	0.21	0.42	0.42
247.5	5.43	0.00	0.00	0.00	0.00	0.21	0.42	0.42	0.63
270.0	3.55	0.00	0.42	0.63	0.42	0.42	0.63	0.63	0.84
292.5	4.59	0.21	1.25	0.21	0.21	0.21	0.21	0.63	0.84
315.0	5.22	0.21	0.00	0.21	0.00	0.00	0.42	0.42	0.42
337.5	5.85	1.25	0.00	0.00	0.00	0.00	0.21	0.21	0.63
360.0	3.55	0.21	0.00	0.21	0.00	0.42	0.21	0.42	0.42

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	0.42	0.63	0.63	0.42	0.42	0.63	0.63	0.63	0.84
22.5	0.84	1.04	0.84	1.04	1.04	0.84	1.04	1.04	1.04
45.0	1.04	0.84	1.04	1.25	1.04	1.25	1.25	1.04	1.04
67.5	1.04	1.04	1.04	1.04	1.04	1.25	1.25	1.04	1.25
90.0	1.04	1.04	1.25	1.04	1.25	1.25	1.04	1.04	1.25
112.5	0.84	0.84	1.04	1.25	1.25	1.25	1.25	1.04	1.25
135.0	1.04	1.04	1.25	1.04	1.25	1.25	0.84	1.04	1.04
157.5	0.84	1.04	1.04	1.04	1.25	1.25	1.04	1.25	1.25
180.0	0.42	0.42	0.63	0.63	0.84	0.63	0.84	1.04	0.84
202.5	0.63	0.84	0.63	0.84	0.84	1.04	1.04	1.04	1.04
225.0	0.63	0.63	0.84	1.04	1.04	1.25	1.04	1.04	1.04
247.5	0.63	0.84	1.04	1.04	0.84	1.04	0.84	1.25	1.04
270.0	0.84	1.04	1.04	1.25	1.04	1.25	1.04	1.04	1.04
292.5	1.04	0.84	0.84	0.84	0.84	1.04	0.84	1.04	1.04
315.0	0.63	0.84	0.84	1.04	1.04	1.04	1.46	1.04	1.04
337.5	0.63	0.84	0.84	0.84	0.84	1.04	1.04	1.04	1.25
360.0	0.42	0.63	0.63	0.42	0.42	0.63	0.63	0.63	0.84

C/γ(°) 180.0

0.0	0.42
22.5	1.25
45.0	1.04
67.5	1.04
90.0	1.25
112.5	1.25
135.0	1.25
157.5	1.04
180.0	0.42
202.5	1.25
225.0	1.04
247.5	1.04
270.0	1.25
292.5	1.25
315.0	1.25
337.5	1.04
360.0	0.42