



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

Luminaire:

Report No:

Test No:

LampCAT:

Lamp flux(lm): 1260.7

Number of Lamps: 1

Length(mm): 0

Phm Type: C

Voltage(V): 120.03

Current(A): 0.0787

Power (W): 9.1830

PF: 0.9722

Ballast type:

Width(mm): 0

Height(mm): 0

Photometric Results

Lumens(lm): 1260.71

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 137.29

Central intensity(cd): 454.563

Maximum intensity(cd): 454.563

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

Beam Angle(50%Imax): [C0/180]Total=100.7

[C90/270]Total=116.9

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

[C90/270]Total=161.8

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(%): 0.86%

Down flux rate of lamp(%): 99.14%

Up flux rate of LUM(%): 0.86%

Down flux rate of LUM(%): 99.14%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 79.866%

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

Date:
Humidity(%): 58%

Operator: Zac

Zonal flux distribution table

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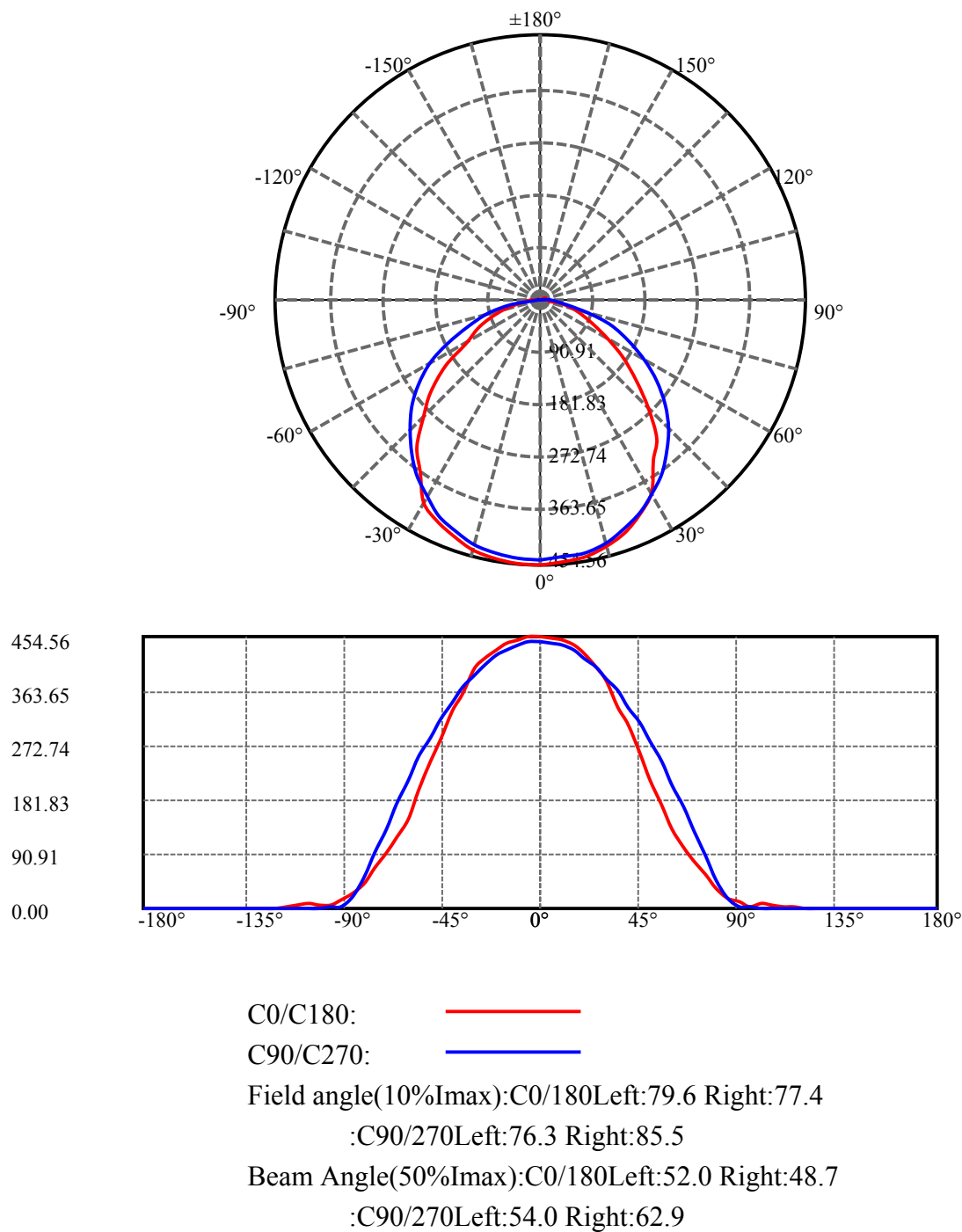
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	450.439	.000	.000	.000%	.000%
5.0	449.265	10.756	10.756	.853%	.853%
10.0	444.945	31.989	42.744	2.537%	3.391%
15.0	437.076	52.321	95.065	4.150%	7.541%
20.0	425.265	71.069	166.134	5.637%	13.178%
25.0	409.501	87.552	253.686	6.945%	20.122%
30.0	390.265	101.211	354.897	8.028%	28.151%
35.0	361.359	110.682	465.579	8.779%	36.930%
40.0	332.766	115.810	581.388	9.186%	46.116%
45.0	296.891	116.586	697.974	9.248%	55.364%
50.0	260.246	112.578	810.552	8.930%	64.293%
55.0	219.804	104.379	914.931	8.279%	72.573%
60.0	177.991	91.949	1006.880	7.293%	79.866%
65.0	140.133	77.337	1084.217	6.134%	86.001%
70.0	105.341	62.155	1146.372	4.930%	90.931%
75.0	73.681	46.793	1193.166	3.712%	94.642%
80.0	43.757	31.423	1224.589	2.493%	97.135%
85.0	20.189	17.376	1241.964	1.378%	98.513%
90.0	8.822	7.943	1249.908	.630%	99.143%
95.0	3.028	3.244	1253.152	.257%	99.401%
100.0	2.780	1.578	1254.730	.125%	99.526%
105.0	2.845	1.505	1256.235	.119%	99.645%
110.0	1.984	1.262	1257.497	.100%	99.745%
115.0	1.135	.790	1258.287	.063%	99.808%
120.0	.483	.393	1258.680	.031%	99.839%
125.0	.522	.232	1258.913	.018%	99.857%
130.0	.483	.219	1259.131	.017%	99.875%
135.0	.600	.219	1259.350	.017%	99.892%
140.0	.665	.234	1259.584	.019%	99.911%
145.0	.744	.235	1259.819	.019%	99.929%
150.0	.783	.225	1260.044	.018%	99.947%
155.0	.770	.196	1260.241	.016%	99.963%
160.0	.783	.163	1260.403	.013%	99.976%
165.0	.783	.129	1260.532	.010%	99.986%
170.0	.848	.097	1260.629	.008%	99.994%
175.0	.835	.060	1260.689	.005%	99.998%
180.0	.887	.021	1260.710	.002%	100.000%

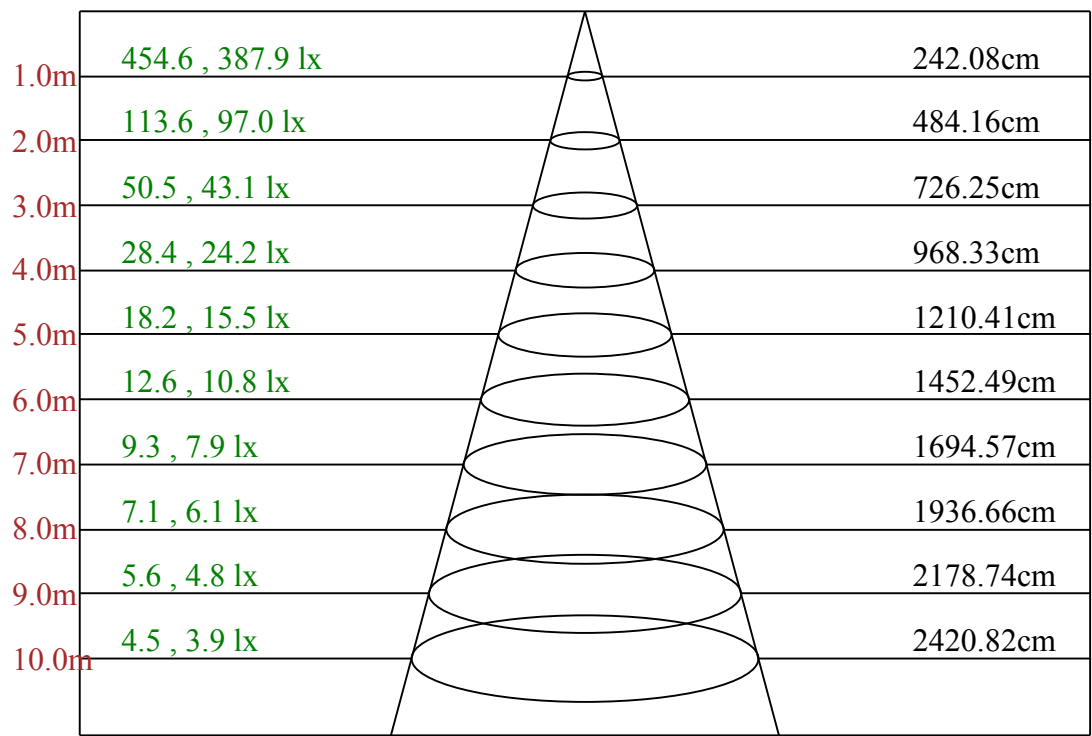
ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	354.90	28.15%	28.15%
0-40	581.39	46.12%	46.12%
0-60	1006.88	79.87%	79.87%
0-90	1249.91	99.14%	99.14%
0-120	1258.68	99.84%	99.84%
0-180	1260.71	100.00%	100.00%
60-90	334.98	26.57%	26.57%
90-120	16.72	1.33%	1.33%
90-130	17.17	1.36%	1.36%
90-150	18.08	1.43%	1.43%
90-180	18.73	1.49%	1.49%
0-60.11	1008.57	80.00%	80.00%

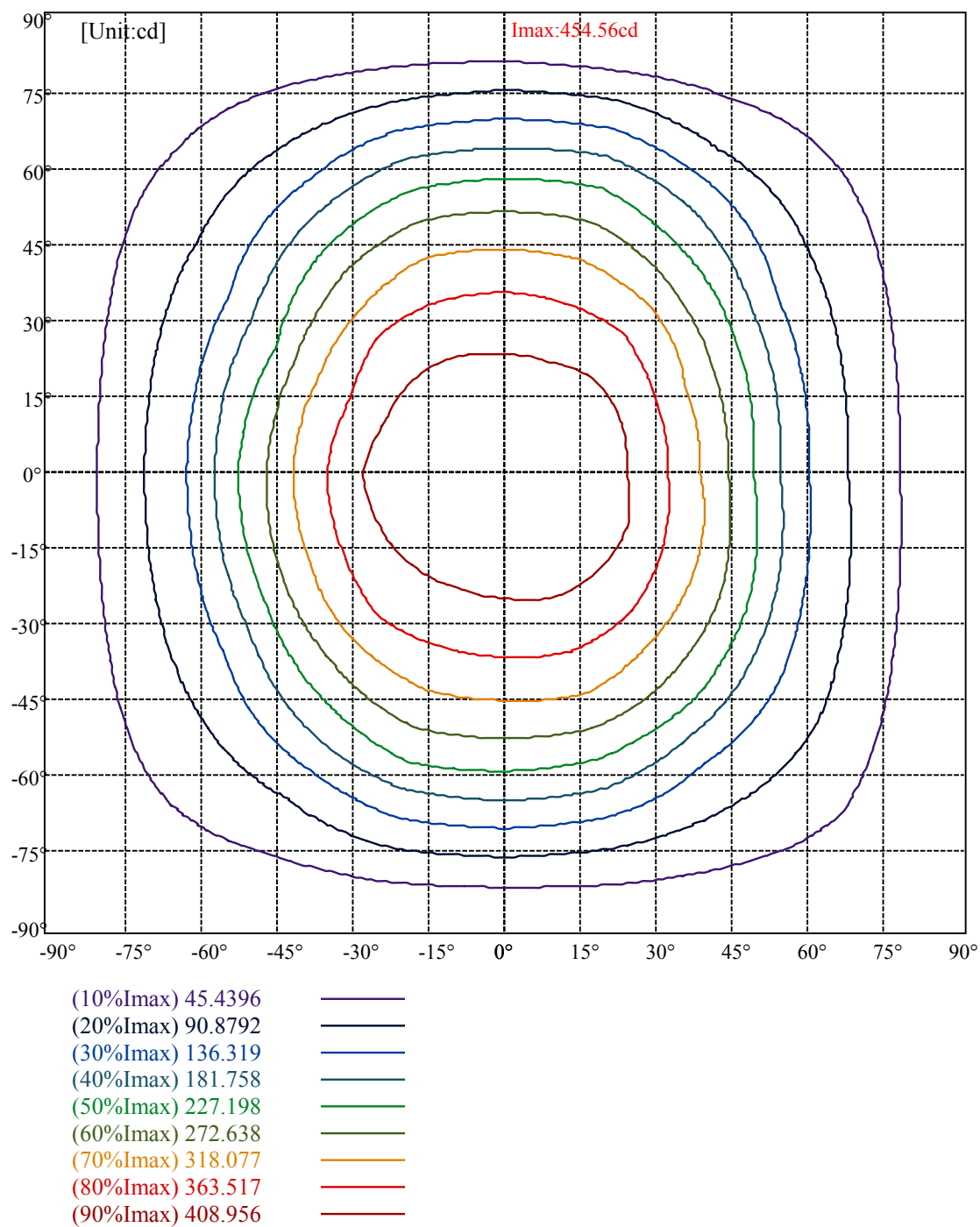
ZONAL LUMEN SUMMARY

0-10	42.74
10-20	123.39
20-30	188.76
30-40	226.49
40-50	229.16
50-60	196.33
60-70	139.49
70-80	78.22
80-90	25.32
90-100	4.82
100-110	2.77
110-120	1.18
120-130	0.45
130-140	0.45
140-150	0.46
150-160	0.36
160-170	0.23
170-180	0.06





Max , Ave Beam angle of C0plane100.76



Intensity data(cd)

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C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	454.56	451.85	448.30	439.11	425.96	404.24	380.86	335.96	309.03
22.5	451.64	451.01	446.21	437.86	425.96	408.42	387.54	340.77	309.86
45.0	449.55	448.93	443.91	434.94	424.70	408.84	389.63	363.73	338.89
67.5	447.05	444.75	438.90	431.18	419.07	403.20	384.61	362.69	337.43
90.0	445.38	442.45	440.16	432.22	418.02	402.36	382.94	363.94	335.96
112.5	449.55	449.13	444.12	434.31	421.57	406.96	388.37	365.20	340.77
135.0	451.85	449.97	446.21	437.02	425.33	409.04	390.04	368.12	327.40
157.5	453.94	452.68	448.09	438.69	426.79	410.09	385.45	349.12	319.26
180.0	454.56	453.73	448.93	443.50	432.01	418.86	400.07	359.98	329.49
202.5	451.64	451.01	447.67	439.74	428.88	414.06	396.52	361.86	326.99
225.0	449.55	448.30	444.75	436.82	424.70	409.88	394.01	371.04	348.70
247.5	447.05	445.17	439.95	433.27	421.57	407.17	390.46	368.54	344.11
270.0	445.38	446.00	439.95	433.27	423.03	407.79	388.79	369.16	343.69
292.5	449.55	449.76	444.54	438.07	426.38	413.43	395.89	374.59	348.91
315.0	451.85	450.60	446.84	439.53	428.88	414.06	394.43	371.88	336.38
337.5	453.94	452.89	450.60	443.71	431.39	413.64	394.64	355.17	327.40
360.0	454.56	451.85	448.30	439.11	425.96	404.24	380.86	335.96	309.03
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	261.00	215.28	172.05	133.01	101.06	77.88	55.75	34.04	17.96
22.5	270.19	232.19	185.42	139.69	107.74	82.06	58.88	34.87	17.33
45.0	290.65	256.62	214.02	180.20	136.14	92.71	59.51	34.66	14.83
67.5	310.28	278.96	245.76	210.47	170.59	124.66	82.48	39.46	14.83
90.0	309.45	278.75	244.30	207.34	168.50	128.62	88.12	47.61	16.50
112.5	312.79	279.38	242.63	204.00	166.00	121.11	79.55	44.89	18.79
135.0	297.13	258.50	216.32	174.98	131.34	98.56	67.86	41.55	19.63
157.5	276.66	223.21	187.30	141.15	112.55	87.28	62.85	38.42	19.63
180.0	282.93	246.60	197.95	148.67	118.81	92.71	66.82	43.43	25.06
202.5	293.37	244.51	195.02	148.88	116.93	90.41	66.19	44.27	22.97
225.0	299.01	264.34	222.58	182.49	137.81	96.26	69.74	42.18	20.05
247.5	316.55	286.69	253.49	216.95	169.34	129.04	88.53	51.37	19.84
270.0	315.92	285.64	253.07	215.69	175.81	133.43	93.13	53.04	20.46
292.5	321.77	290.44	249.10	212.56	169.76	126.53	88.32	52.83	23.60
315.0	304.02	269.77	231.77	179.15	134.68	105.24	77.88	48.86	25.06
337.5	288.57	253.07	206.09	152.64	125.07	98.97	73.29	48.65	26.52
360.0	261.00	215.28	172.05	133.01	101.06	77.88	55.75	34.04	17.96
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	12.11	1.67	8.56	6.68	4.18	1.67	0.21	0.42	0.42
22.5	11.28	1.67	3.97	1.67	1.25	0.84	0.42	0.42	0.63
45.0	8.56	3.97	1.46	3.13	1.88	0.84	0.63	0.63	1.04
67.5	4.39	3.34	0.42	1.04	0.84	0.63	0.63	0.84	0.63
90.0	2.30	1.88	0.42	0.63	0.63	0.84	0.63	0.84	0.63
112.5	6.68	3.97	0.42	2.51	1.46	0.84	0.63	0.84	0.63
135.0	9.81	1.25	4.80	1.67	0.84	0.63	0.63	0.84	0.63
157.5	11.69	0.63	3.55	5.43	3.97	2.09	0.63	0.63	0.84
180.0	13.16	4.39	6.89	7.10	5.01	2.71	0.63	0.21	0.21
202.5	11.28	2.09	6.68	3.34	1.46	0.63	0.00	0.42	0.21
225.0	8.56	5.85	0.21	3.34	2.51	1.67	0.84	0.42	0.21
247.5	4.80	3.34	0.63	0.42	1.25	0.84	0.42	0.42	0.42
270.0	2.92	1.46	0.42	0.00	0.42	0.42	0.42	0.42	0.21
292.5	8.14	4.80	0.00	1.88	1.88	1.04	0.42	0.42	0.42
315.0	11.90	5.22	3.13	3.76	1.67	1.25	0.63	0.21	0.42
337.5	13.57	2.92	2.92	2.92	2.51	1.25	0.00	0.42	0.21
360.0	12.11	1.67	8.56	6.68	4.18	1.67	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	0.42	0.63	0.63	0.63	0.63	0.63	0.63
22.5	1.04	1.04	0.63	0.84	0.84	0.84	0.84	0.84	1.04
45.0	0.84	0.84	1.04	0.63	0.63	0.84	0.84	1.04	0.84
67.5	0.84	0.63	0.63	1.04	0.84	1.04	0.84	0.84	0.63
90.0	0.63	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
112.5	0.63	0.84	1.04	0.84	1.04	0.84	0.84	0.84	0.84
135.0	0.84	0.84	1.04	0.84	1.04	0.84	0.84	1.04	0.84
157.5	0.84	0.84	0.84	0.84	0.84	0.84	0.84	1.04	0.84
180.0	0.42	0.21	0.63	0.84	0.84	0.84	0.63	0.84	1.04
202.5	0.42	0.63	0.84	0.63	0.63	0.84	0.63	0.84	0.84
225.0	0.42	0.42	0.63	0.63	0.84	0.63	0.84	0.84	1.04
247.5	0.42	0.63	0.63	0.63	0.84	0.84	1.04	0.84	0.63
270.0	0.42	0.63	0.63	0.84	0.63	0.63	0.84	0.84	1.04
292.5	0.42	0.63	0.84	0.84	0.84	0.63	0.63	0.84	0.84
315.0	0.63	0.63	0.63	0.84	0.42	0.63	0.84	0.84	0.84
337.5	0.42	0.42	0.63	0.84	0.63	0.84	0.63	0.63	0.63
360.0	0.42	0.63	0.42	0.63	0.63	0.63	0.63	0.63	0.63
C/γ(°)	180.0								
0.0	0.84								
22.5	0.63								
45.0	0.84								
67.5	1.04								
90.0	0.84								
112.5	0.84								
135.0	1.04								
157.5	1.04								
180.0	0.84								
202.5	0.63								
225.0	0.84								
247.5	1.04								
270.0	0.84								
292.5	0.84								
315.0	1.04								
337.5	1.04								
360.0	0.84								