



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

Luminaire:

Report No:

Test No:

LampCAT:

Lamp flux(lm): 825.9

Number of Lamps: 1

Length(mm): 0

Phm Type: C

Voltage(V): 120.07

Current(A): 0.061

Power (W): 6.2390

PF: 0.8525

Ballast type:

Width(mm): 0

Height(mm): 0

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### Photometric Results

Lumens(lm): 825.87

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 132.37

Central intensity(cd): 290.236

Maximum intensity(cd): 291.697

Angle of maximum intensity: C=180.0  $\gamma$ =5.0

Beam Angle(50%Imax): [C0/180]Total=112.4

[C90/270]Total=112.1

Field angle(10%Imax): [C0/180]Total=158.9

[C90/270]Total=157.7

Maximum s/h(1/2): C0\_180=1.32 C90\_270=1.28

Maximum s/h(1/4): C0\_180=1.88 C90\_270=1.39

Up flux rate of lamp(%): 0.39%

Down flux rate of lamp(%): 99.61%

Up flux rate of LUM(%): 0.39%

Down flux rate of LUM(%): 99.61%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 80.293%

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

Date:  
Humidity(%): 58%

Operator: Zac

## Zonal flux distribution table

Page: 2 Total:8

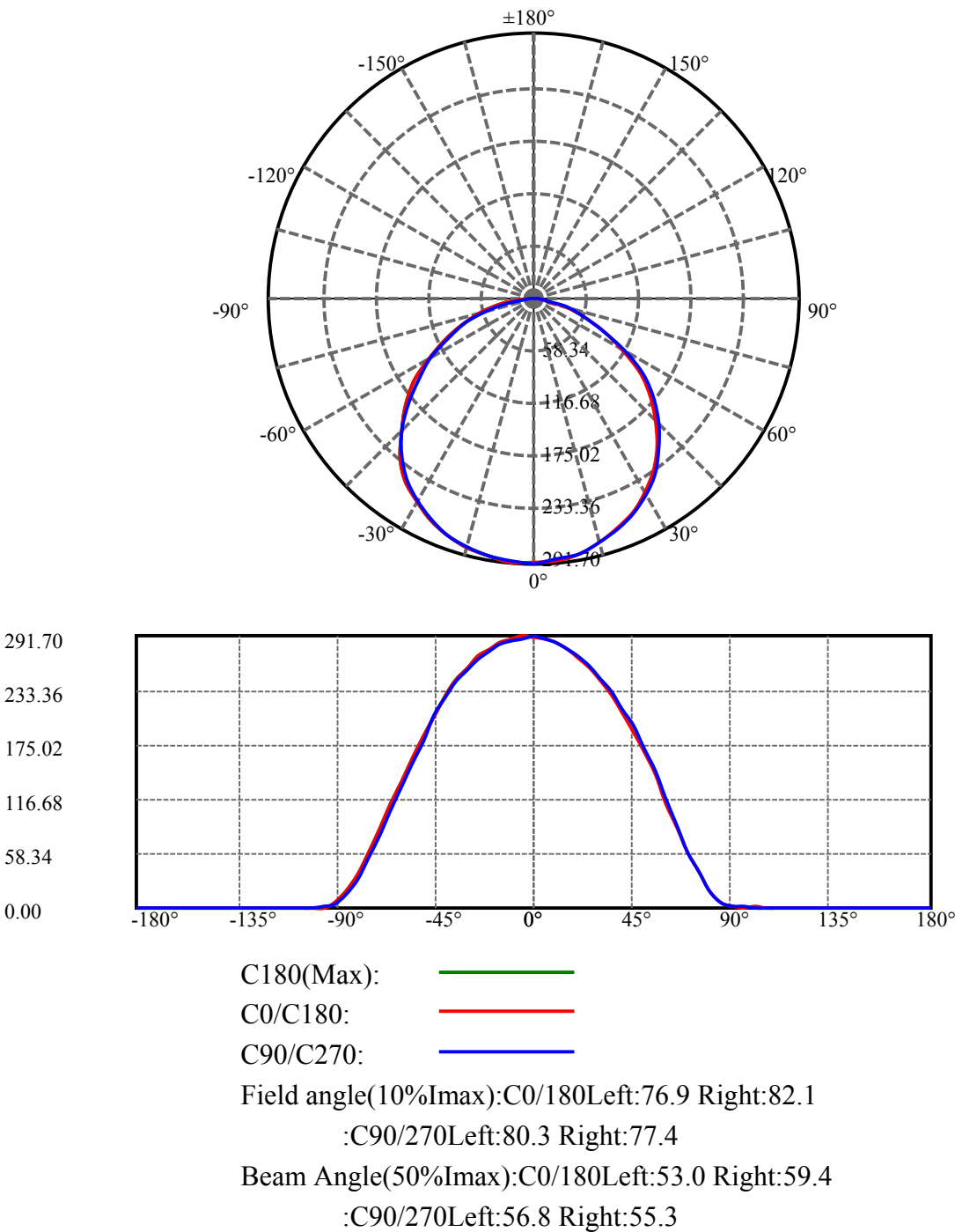
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	290.784	.000	.000	.000%	.000%
5.0	288.487	6.925	6.925	.839%	.839%
10.0	285.394	20.530	27.455	2.486%	3.324%
15.0	280.657	33.578	61.032	4.066%	7.390%
20.0	272.761	45.609	106.642	5.523%	12.913%
25.0	263.261	56.219	162.861	6.807%	19.720%
30.0	251.555	65.150	228.011	7.889%	27.609%
35.0	236.704	71.900	299.910	8.706%	36.314%
40.0	219.465	76.108	376.019	9.216%	45.530%
45.0	198.180	77.330	453.349	9.363%	54.893%
50.0	175.642	75.536	528.885	9.146%	64.040%
55.0	150.521	70.919	599.804	8.587%	72.627%
60.0	123.376	63.310	663.114	7.666%	80.293%
65.0	96.101	53.355	716.469	6.461%	86.753%
70.0	70.171	42.101	758.571	5.098%	91.851%
75.0	46.889	30.598	789.168	3.705%	95.556%
80.0	26.139	19.540	808.709	2.366%	97.922%
85.0	10.779	10.032	818.740	1.215%	99.137%
90.0	3.445	3.895	822.635	.472%	99.608%
95.0	1.370	1.319	823.954	.160%	99.768%
100.0	.574	.528	824.482	.064%	99.832%
105.0	.326	.241	824.723	.029%	99.861%
110.0	.118	.116	824.839	.014%	99.875%
115.0	.078	.050	824.889	.006%	99.881%
120.0	.157	.057	824.946	.007%	99.888%
125.0	.157	.072	825.018	.009%	99.897%
130.0	.183	.074	825.092	.009%	99.906%
135.0	.222	.082	825.174	.010%	99.916%
140.0	.300	.097	825.271	.012%	99.927%
145.0	.339	.107	825.377	.013%	99.940%
150.0	.405	.110	825.487	.013%	99.954%
155.0	.483	.112	825.599	.014%	99.967%
160.0	.431	.096	825.695	.012%	99.979%
165.0	.392	.068	825.763	.008%	99.987%
170.0	.535	.055	825.818	.007%	99.994%
175.0	.574	.040	825.857	.005%	99.998%
180.0	.418	.012	825.869	.001%	100.000%

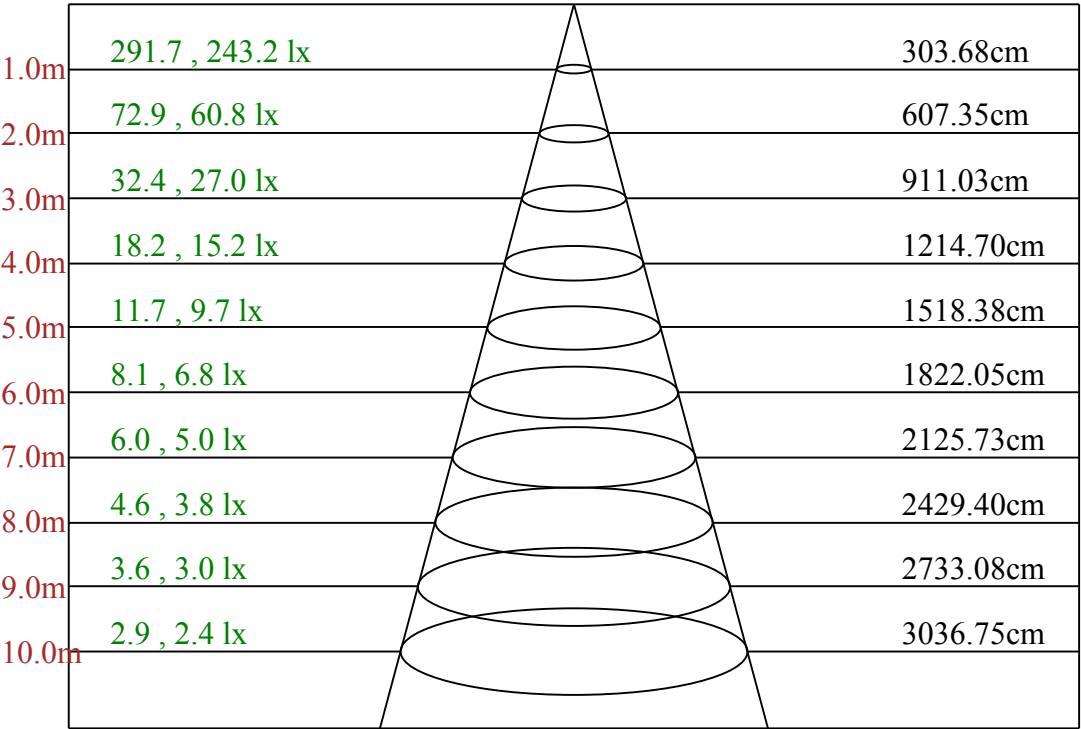
## ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	228.01	27.61%	27.61%
0-40	376.02	45.53%	45.53%
0-60	663.11	80.29%	80.29%
0-90	822.64	99.61%	99.61%
0-120	824.95	99.89%	99.89%
0-180	825.87	100.00%	100.00%
60-90	222.83	26.98%	26.98%
90-120	6.21	0.75%	0.75%
90-130	6.35	0.77%	0.77%
90-150	6.75	0.82%	0.82%
90-180	7.12	0.86%	0.86%
0-59.81	660.70	80.00%	80.00%

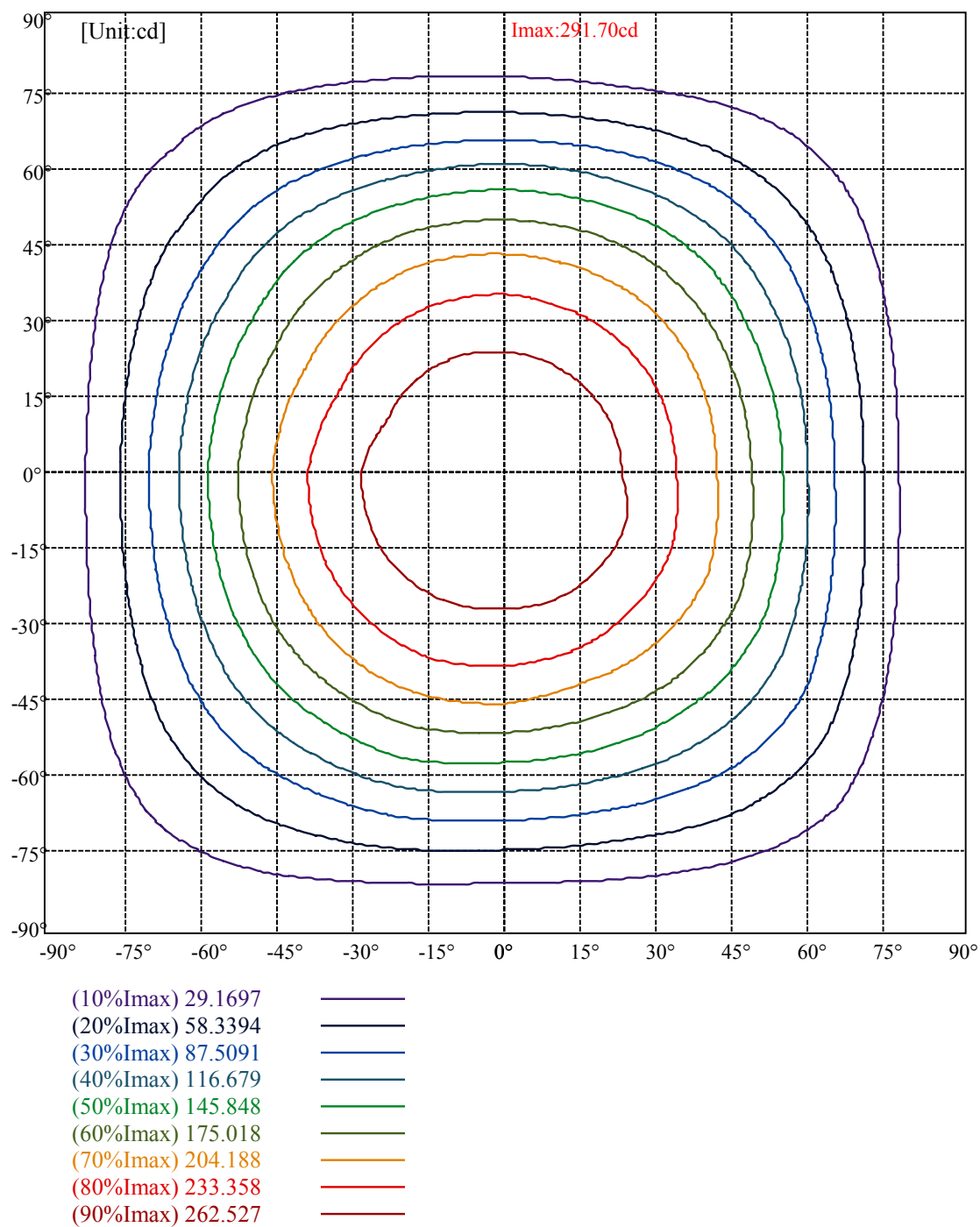
## ZONAL LUMEN SUMMARY

0-10	27.45
10-20	79.19
20-30	121.37
30-40	148.01
40-50	152.87
50-60	134.23
60-70	95.46
70-80	50.14
80-90	13.93
90-100	1.85
100-110	0.36
110-120	0.11
120-130	0.15
130-140	0.18
140-150	0.22
150-160	0.21
160-170	0.12
170-180	0.04





Max , Ave      Beam angle of C180plane113.10



## Intensity data(cd)

Page: 7 Total:8

C/ $\gamma$ (°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	290.24	288.36	283.97	277.29	268.73	258.08	244.93	228.64	210.47
22.5	290.44	286.90	283.35	277.29	268.10	258.29	245.34	228.43	210.89
45.0	290.86	287.31	281.88	276.87	267.69	257.25	244.51	228.85	212.14
67.5	290.44	288.15	283.55	276.46	268.94	258.29	245.34	229.89	211.73
90.0	291.07	287.73	284.60	277.71	269.36	259.33	247.22	232.61	214.44
112.5	291.07	287.73	283.55	279.17	270.40	261.21	248.27	233.65	216.53
135.0	290.86	287.52	283.55	279.59	271.44	261.84	249.73	234.28	215.28
157.5	291.28	288.57	285.22	280.21	272.91	262.47	250.98	235.11	217.36
180.0	290.24	291.70	287.31	283.55	277.29	269.15	258.08	244.72	228.01
202.5	290.44	290.03	287.31	284.60	277.71	268.73	258.92	245.55	228.64
225.0	290.86	288.36	287.94	283.97	276.66	268.31	258.08	245.13	228.64
247.5	290.44	288.98	288.15	283.35	276.46	267.48	257.45	244.72	229.68
270.0	291.07	288.36	286.90	282.93	275.83	266.01	255.99	242.63	226.34
292.5	291.07	288.77	286.69	282.72	274.58	266.22	255.99	240.96	223.21
315.0	290.86	288.15	286.27	282.72	274.16	264.97	252.65	236.78	219.24
337.5	291.28	289.19	286.06	282.09	273.95	264.55	251.40	235.32	218.83
360.0	290.24	288.36	283.97	277.29	268.73	258.08	244.93	228.64	210.47
C/ $\gamma$ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	189.18	167.88	143.03	112.34	84.77	59.51	37.38	17.75	5.64
22.5	190.22	164.12	138.85	111.08	84.77	58.88	36.75	17.96	5.43
45.0	190.85	167.88	142.82	112.75	86.24	57.84	35.50	17.33	5.85
67.5	192.73	170.17	144.28	114.84	86.03	57.84	34.87	16.50	5.43
90.0	194.81	171.64	147.21	118.60	86.65	59.72	38.84	18.58	6.06
112.5	196.69	172.89	146.37	116.30	88.12	61.39	40.09	21.09	7.52
135.0	195.65	172.05	147.83	118.81	90.62	66.40	41.97	23.18	8.35
157.5	195.86	173.31	148.67	122.36	96.05	68.49	45.73	24.64	9.40
180.0	205.46	185.21	160.15	136.14	109.62	85.40	58.67	35.91	17.75
202.5	205.25	185.63	160.36	133.84	106.70	80.81	58.47	36.96	17.96
225.0	207.76	183.75	158.27	133.22	105.45	79.14	58.26	36.54	17.54
247.5	208.39	183.96	161.40	136.77	108.37	81.64	57.21	32.99	14.83
270.0	205.67	179.57	154.10	130.29	102.52	78.51	52.41	30.07	13.78
292.5	195.44	176.02	152.84	125.49	101.90	74.54	50.74	30.49	13.36
315.0	197.74	177.48	149.50	125.49	100.23	76.00	52.20	29.86	12.53
337.5	199.20	178.74	152.64	125.70	99.60	76.63	51.16	28.40	11.07
360.0	189.18	167.88	143.03	112.34	84.77	59.51	37.38	17.75	5.64
C/ $\gamma$ (°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	2.51	0.00	1.25	0.84	0.21	0.00	0.00	0.00	0.00
22.5	2.71	0.21	0.84	0.21	0.21	0.00	0.42	0.21	0.21
45.0	3.13	1.46	0.21	0.63	0.21	0.21	0.21	0.21	0.21
67.5	2.92	2.51	0.21	0.00	0.21	0.21	0.21	0.42	0.42
90.0	2.30	2.09	0.84	0.21	0.21	0.21	0.42	0.42	0.42
112.5	2.51	1.88	0.21	0.00	0.21	0.21	0.63	0.42	0.63
135.0	2.51	1.04	0.63	0.84	0.42	0.21	0.42	0.42	0.42
157.5	2.51	0.42	1.04	0.42	0.21	0.21	0.21	0.42	0.21
180.0	4.80	0.42	0.84	0.63	0.00	0.00	0.00	0.00	0.00
202.5	5.22	0.00	0.63	0.21	0.00	0.00	0.00	0.00	0.00
225.0	5.43	2.09	0.00	0.42	0.00	0.00	0.00	0.00	0.00
247.5	4.39	2.30	0.21	0.00	0.00	0.00	0.00	0.00	0.00
270.0	3.55	1.88	0.63	0.00	0.00	0.00	0.00	0.00	0.21
292.5	3.55	2.30	0.42	0.00	0.00	0.00	0.00	0.00	0.00
315.0	3.76	2.30	0.00	0.84	0.00	0.00	0.00	0.00	0.00
337.5	3.34	1.04	1.25	0.00	0.00	0.00	0.00	0.00	0.21
360.0	2.51	0.00	1.25	0.84	0.21	0.00	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	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00
22.5	0.21	0.63	0.42	0.42	0.42	0.63	0.42	0.63	0.63
45.0	0.42	0.42	0.42	0.63	0.63	0.63	0.63	0.63	0.84
67.5	0.21	0.42	0.63	0.63	0.63	0.42	0.42	0.63	0.63
90.0	0.63	0.63	0.63	0.63	0.42	0.42	0.42	0.84	0.63
112.5	0.42	0.42	0.42	0.63	0.84	0.84	0.63	0.63	0.63
135.0	0.42	0.63	0.63	0.42	0.63	0.63	0.42	0.63	0.63
157.5	0.42	0.42	0.63	0.21	0.63	0.42	0.63	0.42	0.84
180.0	0.00	0.00	0.21	0.21	0.21	0.21	0.21	0.42	0.42
202.5	0.21	0.42	0.00	0.21	0.42	0.42	0.21	0.42	0.42
225.0	0.00	0.21	0.21	0.42	0.63	0.42	0.21	0.63	0.84
247.5	0.42	0.00	0.21	0.42	0.42	0.42	0.21	0.42	0.42
270.0	0.21	0.21	0.21	0.21	0.42	0.63	0.42	0.63	0.63
292.5	0.00	0.00	0.00	0.42	0.42	0.42	0.42	0.63	0.42
315.0	0.00	0.21	0.21	0.42	0.42	0.42	0.42	0.42	0.63
337.5	0.00	0.21	0.42	0.42	0.42	0.00	0.63	0.63	0.63
360.0	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00

C/γ(°)	180.0
0.0	0.00
22.5	0.42
45.0	0.42
67.5	0.63
90.0	0.42
112.5	0.42
135.0	0.42
157.5	0.63
180.0	0.00
202.5	0.42
225.0	0.42
247.5	0.63
270.0	0.42
292.5	0.42
315.0	0.42
337.5	0.63
360.0	0.00