



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

LumCAT:

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.06

LampCAT:

Current(A): 0.0950

Lamp flux(lm): -1.0

Power (W): 11.12

Number of Lamps: 0

PF: 0.9757

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

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### Photometric Results

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Lumens(lm): 700.32, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 62.98

Central intensity(cd): 247.497, Maximum intensity(cd): 256.501

Angle of maximum intensity: C=90.0  $\gamma$ =0.0

Beam Angle(50%Imax): [C0/180]Total=109.6

[C90/270]Total=113.9

Field angle(10%Imax): [C0/180]Total=155.9

[C90/270]Total=161.0

Maximum s/h(1/2): C0\_180=1.24 C90\_270=1.27

Maximum s/h(1/4): C0\_180=1.36 C90\_270=1.39

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.71%

Down flux rate of LUM(%): 99.29%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 79.511%

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

Date:  
Humidity(%): 58%

Operator: Tester

## 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	250.600	0.000	0	0.00%	0.00%
5.0	249.398	5.977	5.977	0.00%	0.85%
10.0	245.733	17.712	23.69	0.00%	3.38%
15.0	239.892	28.807	52.497	0.00%	7.50%
20.0	231.877	38.880	91.377	0.00%	13.05%
25.0	221.883	47.591	138.968	0.00%	19.84%
30.0	209.837	54.635	193.603	0.00%	27.64%
35.0	196.133	59.782	253.385	0.00%	36.18%
40.0	180.999	62.922	316.306	0.00%	45.17%
45.0	164.329	63.940	380.246	0.00%	54.30%
50.0	146.503	62.808	443.054	0.00%	63.26%
55.0	127.460	59.569	502.623	0.00%	71.77%
60.0	107.063	54.209	556.832	0.00%	79.51%
65.0	85.693	46.859	603.692	0.00%	86.20%
70.0	63.745	37.839	641.531	0.00%	91.61%
75.0	41.843	27.599	669.13	0.00%	95.55%
80.0	21.492	16.947	686.076	0.00%	97.97%
85.0	5.841	7.427	693.503	0.00%	99.03%
90.0	0.821	1.824	695.327	0.00%	99.29%
95.0	0.639	0.400	695.727	0.00%	99.34%
100.0	0.532	0.318	696.045	0.00%	99.39%
105.0	0.624	0.309	696.354	0.00%	99.43%
110.0	0.623	0.326	696.68	0.00%	99.48%
115.0	0.730	0.343	697.023	0.00%	99.53%
120.0	0.776	0.366	697.389	0.00%	99.58%
125.0	0.776	0.359	697.748	0.00%	99.63%
130.0	0.882	0.360	698.108	0.00%	99.68%
135.0	0.867	0.353	698.462	0.00%	99.73%
140.0	0.913	0.329	698.791	0.00%	99.78%
145.0	1.080	0.332	699.123	0.00%	99.83%
150.0	1.004	0.307	699.43	0.00%	99.87%
155.0	1.049	0.260	699.69	0.00%	99.91%
160.0	1.065	0.222	699.912	0.00%	99.94%
165.0	1.065	0.175	700.087	0.00%	99.97%
170.0	1.095	0.128	700.215	0.00%	99.98%
175.0	1.095	0.078	700.294	0.00%	100.00%
180.0	1.186	0.027	700.321	0.00%	100.00%

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

Date:  
Humidity(%): 58%

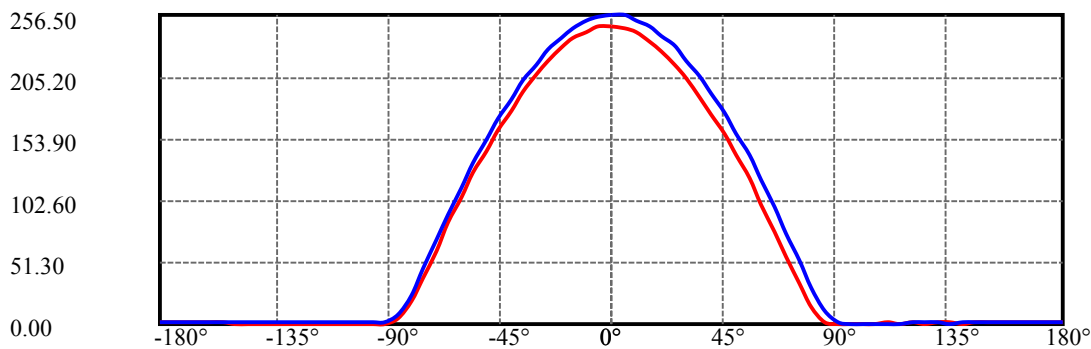
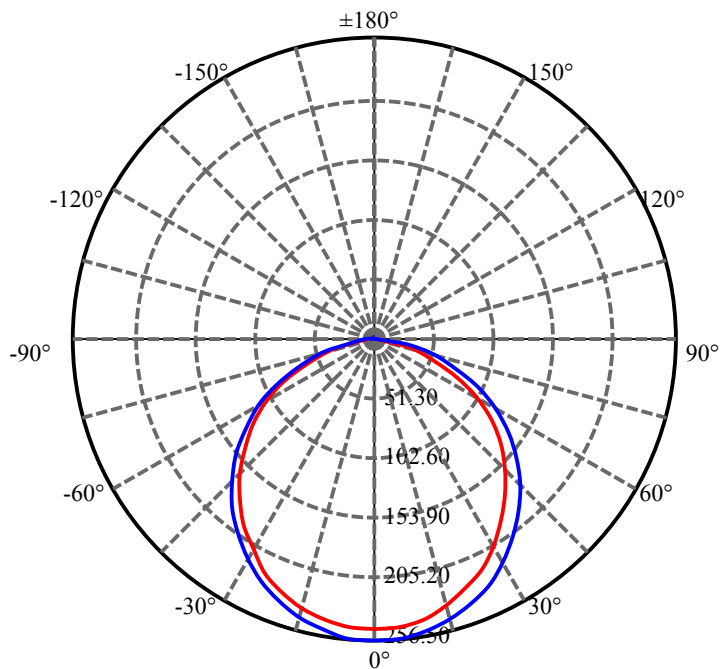
Operator: Tester

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	193.60	N.A.	27.64%
0-40	316.31	N.A.	45.17%
0-60	556.83	N.A.	79.51%
0-90	695.33	N.A.	99.29%
0-120	697.39	N.A.	99.58%
0-180	700.32	N.A.	100.00%
60-90	138.49	N.A.	19.78%
90-120	2.06	N.A.	0.29%
90-130	2.78	N.A.	0.40%
90-150	4.10	N.A.	0.59%
90-180	4.97	N.A.	0.71%
0-60.37	560.26	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	23.69
10-20	67.69
20-30	102.23
30-40	122.70
40-50	126.75
50-60	113.78
60-70	84.70
70-80	44.55
80-90	9.25
90-100	0.72
100-110	0.64
110-120	0.71
120-130	0.72
130-140	0.68
140-150	0.64
150-160	0.48
160-170	0.30
170-180	0.08

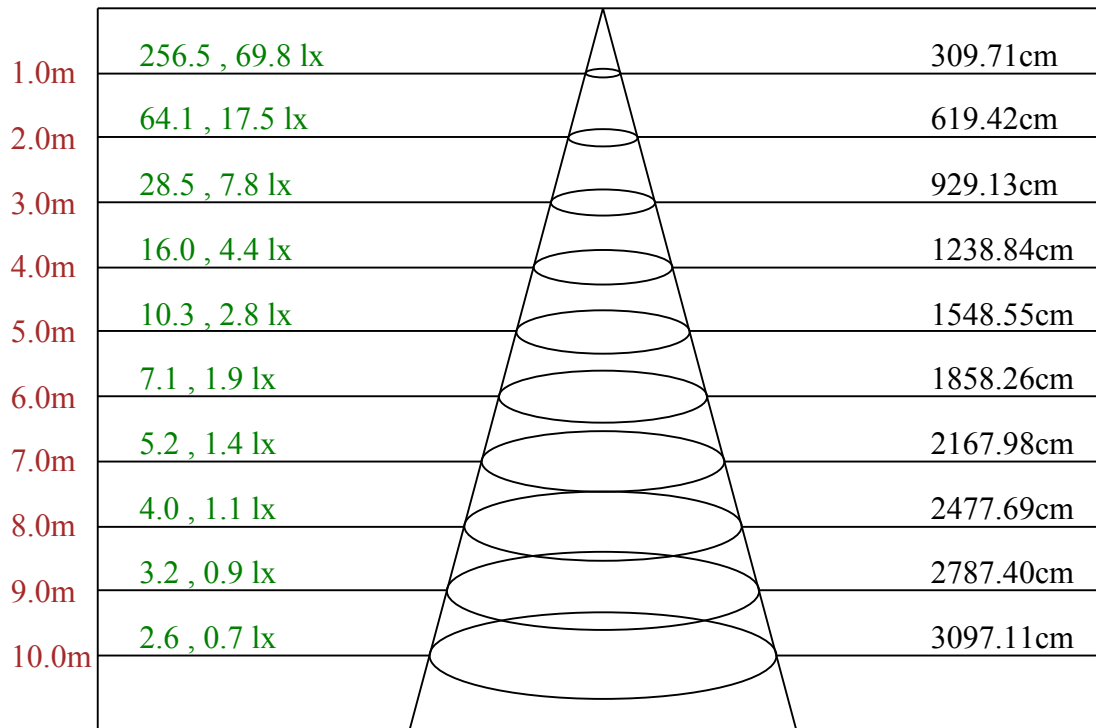


C0/C180: —

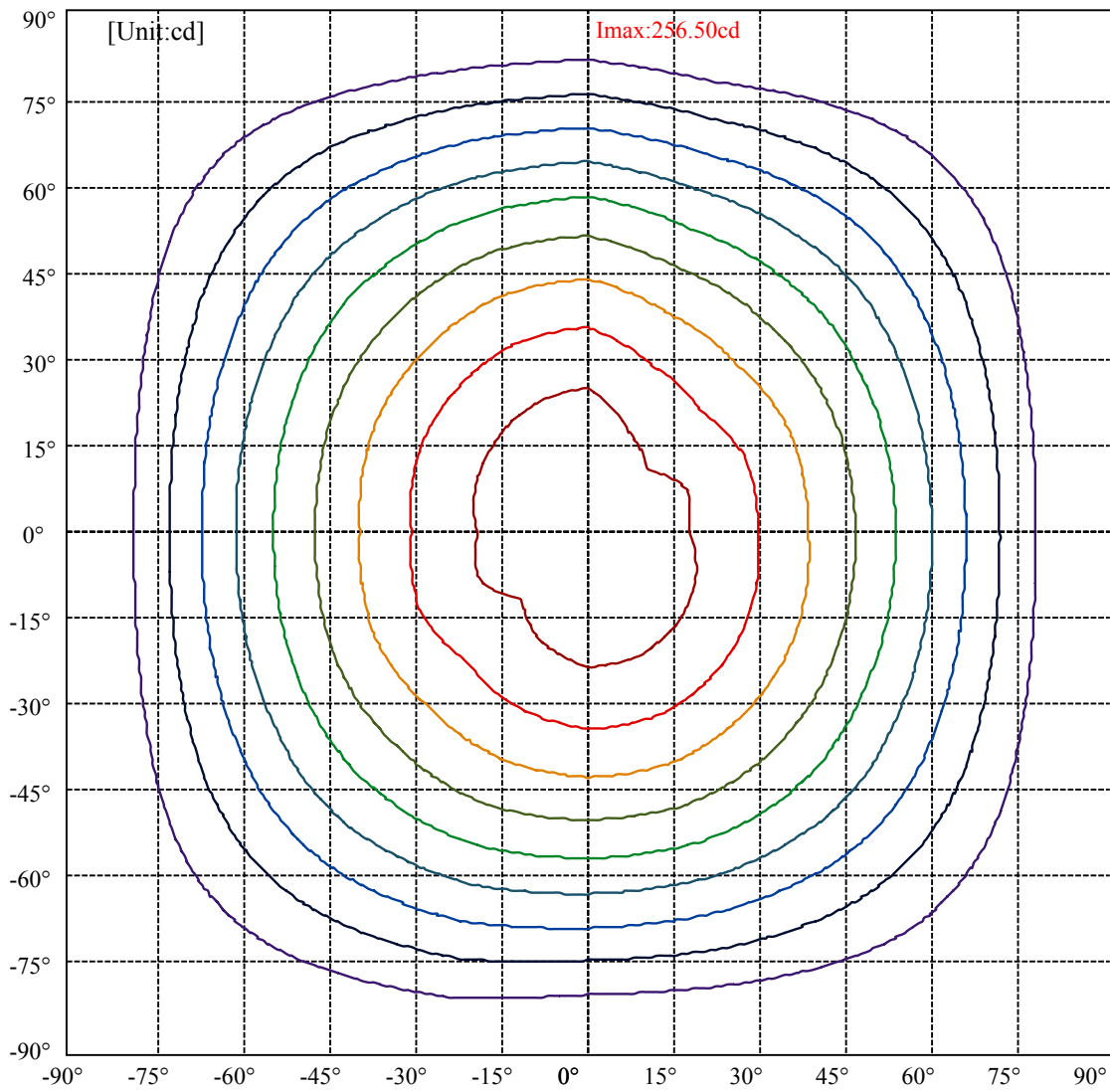
C90/C270: —

Field angle(10%Imax):C0/180Left:78.5 Right:77.4  
 :C90/270Left:79.7 Right:81.3

Beam Angle(50%Imax):C0/180Left:55.4 Right:54.2  
 :C90/270Left:56.2 Right:57.7



Max , Ave      Beam angle of C90 plane 114.29

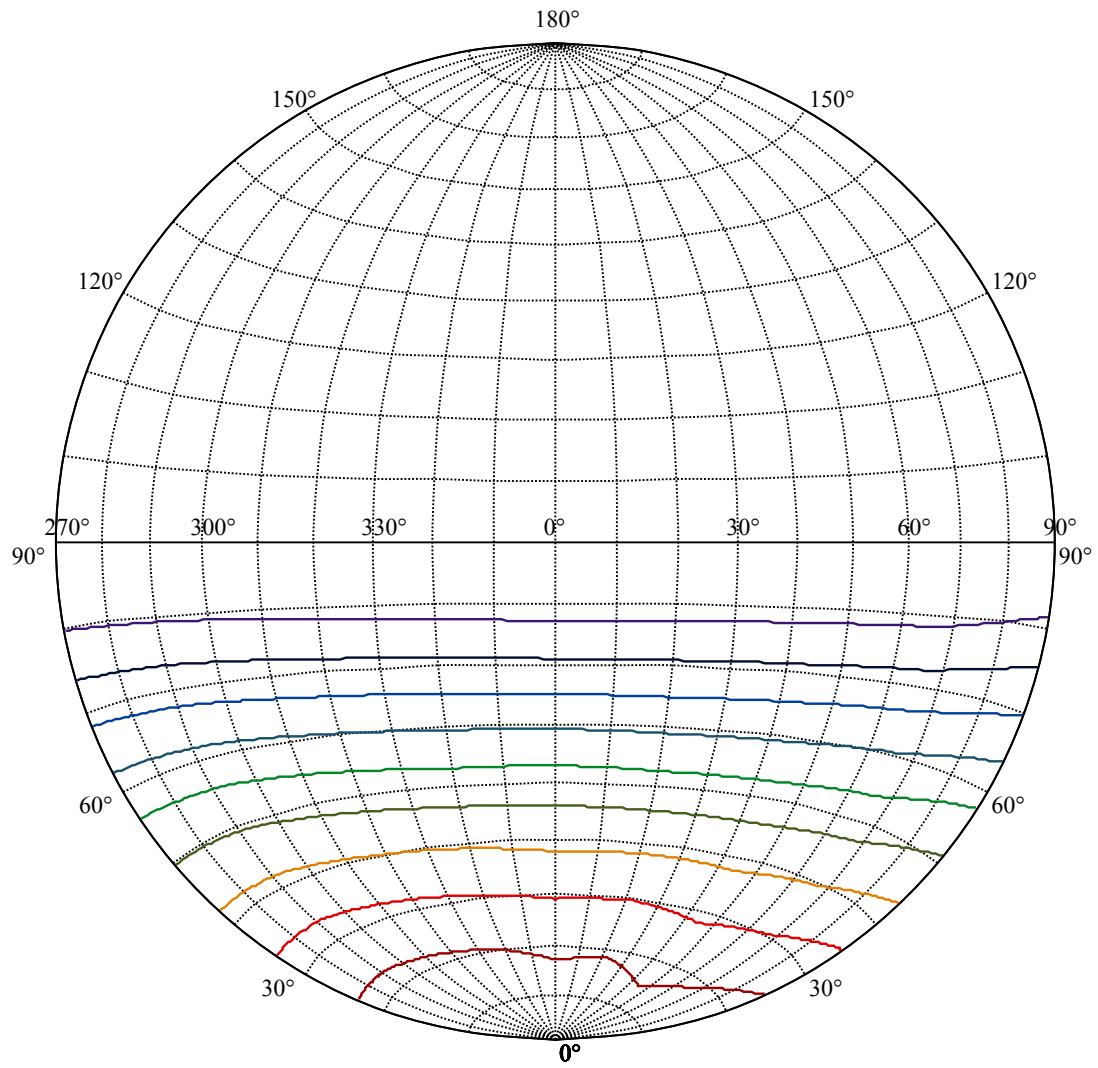


(10%Imax) 25.6501	—
(20%Imax) 51.3002	—
(30%Imax) 76.9503	—
(40%Imax) 102.6	—
(50%Imax) 128.251	—
(60%Imax) 153.901	—
(70%Imax) 179.551	—
(80%Imax) 205.201	—
(90%Imax) 230.851	—

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

Date:  
Humidity(%): 58%

Operator: Tester



House

[Unit:cd]

Road

**Imax:256.50**

(10%Imax) 25.6501	
(20%Imax) 51.3002	
(30%Imax) 76.9503	
(40%Imax) 102.6	
(50%Imax) 128.251	
(60%Imax) 153.901	
(70%Imax) 179.551	
(80%Imax) 205.201	
(90%Imax) 230.851	

## Intensity data(cd)

C/ $\gamma$ (°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	247.50	245.55	241.41	234.84	226.33	215.62	203.21	188.36	173.27
22.5	248.96	247.50	243.12	236.79	228.27	217.56	204.42	189.33	174.25
45.0	241.66	240.44	236.06	230.46	222.43	212.45	200.53	187.39	173.27
67.5	248.23	246.52	242.63	236.79	228.27	218.29	206.61	193.47	178.38
90.0	256.50	256.02	252.36	247.01	239.71	230.46	218.78	205.64	191.28
112.5	256.02	255.29	251.88	246.04	238.49	228.52	217.08	203.94	188.85
135.0	254.07	252.85	249.20	243.60	235.09	225.35	213.43	199.07	183.25
157.5	251.88	250.90	247.25	241.17	232.90	222.67	210.51	196.15	181.06
180.0	247.50	246.52	242.87	237.28	229.25	219.02	206.37	192.50	177.41
202.5	248.96	247.98	245.06	239.22	231.92	221.70	210.02	196.39	180.82
225.0	241.66	240.68	238.01	232.65	225.35	216.59	205.64	193.23	179.36
247.5	248.23	247.50	244.33	239.47	232.17	222.67	211.48	198.83	183.98
270.0	256.50	255.04	251.15	245.06	237.03	227.54	215.62	202.23	186.90
292.5	256.02	254.80	250.90	245.06	237.03	227.06	215.13	201.75	188.17
315.0	254.07	252.36	248.96	242.63	234.60	224.14	211.48	197.12	180.57
337.5	251.88	250.42	246.52	240.20	231.19	220.48	207.10	192.74	177.17
360.0	247.50	245.55	241.41	234.84	226.33	215.62	203.21	188.36	173.27
C/ $\gamma$ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	157.70	139.93	120.71	99.29	77.15	55.24	33.58	14.85	1.95
22.5	156.97	138.23	119.00	98.07	76.66	55.49	34.31	15.58	2.19
45.0	157.21	139.20	120.22	100.02	79.34	57.43	36.26	17.04	3.41
67.5	161.83	144.07	124.84	105.13	83.96	62.06	39.91	18.98	4.38
90.0	174.49	157.21	139.45	118.76	97.34	74.96	53.05	30.66	11.68
112.5	172.06	154.53	135.07	114.62	92.96	71.30	48.43	26.77	9.49
135.0	166.46	147.72	128.74	108.54	87.37	66.19	43.32	22.39	6.81
157.5	163.05	145.04	126.30	105.62	83.72	61.81	40.15	20.93	4.87
180.0	160.86	143.10	125.33	105.62	84.20	60.60	38.21	18.74	4.14
202.5	163.30	145.53	126.06	105.38	84.45	62.54	41.37	20.93	5.84
225.0	163.78	147.23	128.74	109.76	88.58	66.92	45.02	24.82	7.79
247.5	168.41	152.10	133.36	113.41	93.21	71.79	50.62	29.93	10.71
270.0	171.08	152.59	133.36	112.68	91.50	69.36	46.00	24.58	7.79
292.5	168.65	151.37	131.66	110.73	88.34	66.44	43.81	22.39	6.08
315.0	163.78	145.77	126.06	104.89	82.99	60.60	39.67	19.23	3.65
337.5	159.64	140.42	120.46	100.51	79.34	57.19	35.77	16.06	2.68
360.0	157.70	139.93	120.71	99.29	77.15	55.24	33.58	14.85	1.95
C/ $\gamma$ (°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.73	0.73	0.49	0.73	0.97	0.73	0.97	0.73	1.22
22.5	0.73	0.97	0.49	0.73	0.97	0.97	0.73	0.97	1.46
45.0	0.73	0.49	0.73	0.49	0.97	1.22	0.97	0.97	0.97
67.5	0.73	0.73	0.49	0.73	0.97	0.97	0.97	0.97	0.97
90.0	1.46	0.73	0.49	0.49	0.73	0.73	0.97	0.97	0.97
112.5	0.97	0.49	0.49	0.49	0.00	0.49	0.49	0.73	0.73
135.0	0.73	0.49	0.24	0.49	0.24	0.24	0.49	0.49	0.49
157.5	0.49	0.49	0.24	0.24	0.24	0.49	0.49	0.73	0.49
180.0	0.49	0.24	0.49	0.49	0.24	0.49	0.49	0.00	0.73
202.5	0.49	0.49	0.00	0.49	0.24	0.49	0.49	0.49	0.49
225.0	0.49	0.24	0.24	0.24	0.24	0.49	0.49	0.73	0.73
247.5	0.97	0.73	0.49	0.49	0.00	0.49	0.49	0.49	0.24
270.0	1.46	1.22	1.46	1.22	1.22	1.22	1.46	1.46	1.70
292.5	0.97	0.73	0.73	0.97	1.22	0.97	1.22	0.97	1.22
315.0	0.97	0.73	0.73	0.97	0.97	1.22	0.73	0.73	0.73
337.5	0.73	0.73	0.73	0.73	0.73	0.49	0.97	0.97	0.97
360.0	0.73	0.73	0.49	0.73	0.97	0.73	0.97	0.73	1.22



Intensity data(cd)

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.97	0.73	0.97	1.22	1.22	1.22	0.97	0.97	1.46
22.5	0.97	0.97	1.22	1.22	1.22	0.97	1.22	0.97	0.97
45.0	1.22	1.22	1.22	0.97	0.97	0.97	1.22	0.97	1.22
67.5	0.97	0.97	1.22	1.22	1.22	1.22	0.97	0.97	0.73
90.0	0.73	0.97	1.22	0.97	1.22	0.97	1.22	1.22	0.97
112.5	0.73	0.49	0.97	1.22	0.73	0.97	0.97	0.97	0.97
135.0	0.73	0.73	0.73	0.73	0.73	0.97	0.49	0.97	0.97
157.5	0.73	0.73	0.73	0.73	0.97	0.73	0.97	0.97	0.97
180.0	0.73	0.73	0.73	0.73	0.97	0.97	0.97	1.22	1.22
202.5	0.49	0.49	0.97	0.73	0.97	0.97	0.97	0.97	1.22
225.0	0.73	0.73	0.97	0.73	0.73	1.22	0.97	0.97	0.97
247.5	0.24	0.97	1.22	0.73	0.97	1.22	0.97	1.22	0.73
270.0	1.46	1.70	1.70	1.70	1.70	1.70	1.95	1.95	1.70
292.5	1.22	1.22	1.46	0.97	0.97	0.97	0.97	1.22	1.22
315.0	0.97	0.97	0.97	1.22	1.22	0.97	0.97	0.97	0.97
337.5	0.97	0.97	0.97	0.97	0.97	0.97	1.22	0.97	1.22
360.0	0.97	0.73	0.97	1.22	1.22	1.22	0.97	0.97	1.46

C/γ(°)	180.0
0.0	1.22
22.5	1.22
45.0	0.97
67.5	1.22
90.0	1.95
112.5	0.97
135.0	0.97
157.5	0.97
180.0	1.22
202.5	1.22
225.0	0.97
247.5	1.22
270.0	1.95
292.5	0.97
315.0	0.97
337.5	0.97
360.0	1.22