



Shenzhen Belling Efficiency Testing Lab Co.,Ltd  
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Client:

LumCAT:LSG3-5CCT(5000K)

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.12

LampCAT:

Current(A): 0.0630

Lamp flux(lm): -1.0

Power (W): 7.27

Number of Lamps: 1

PF: 0.9595

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

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### Photometric Results

Lumens(lm): 706.44, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 97.17

Central intensity(cd): 1096.786, Maximum intensity(cd): 1126.888

Angle of maximum intensity: C=0.0  $\gamma$ =5.0

Beam Angle(50%Imax): [C0/180]Total=46.0

[C90/270]Total=46.7

Field angle(10%Imax): [C0/180]Total=69.7

[C90/270]Total=69.7

Maximum s/h(1/2): C0\_180=0.82 C90\_270=0.72

Maximum s/h(1/4): C0\_180=0.77 C90\_270=0.67

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.08%

Down flux rate of LUM(%): 99.92%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 98.059%

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

Date:  
Humidity(%): 58%

Operator: Jasper

## 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	1096.786	0.000	0	0.00%	0.00%
5.0	1088.983	26.130	26.13	0.00%	3.70%
10.0	1046.556	76.395	102.525	0.00%	14.51%
15.0	916.457	116.445	218.97	0.00%	31.00%
20.0	711.756	134.188	353.157	0.00%	49.99%
25.0	465.711	123.495	476.652	0.00%	67.47%
30.0	254.706	91.169	567.821	0.00%	80.38%
35.0	115.580	54.527	622.348	0.00%	88.10%
40.0	51.916	27.945	650.294	0.00%	92.05%
45.0	31.570	15.458	665.751	0.00%	94.24%
50.0	22.973	11.021	676.773	0.00%	95.80%
55.0	17.719	8.848	685.62	0.00%	97.05%
60.0	13.023	7.106	692.726	0.00%	98.06%
65.0	8.868	5.322	698.048	0.00%	98.81%
70.0	5.333	3.596	701.643	0.00%	99.32%
75.0	2.993	2.176	703.82	0.00%	99.63%
80.0	1.719	1.261	705.081	0.00%	99.81%
85.0	0.557	0.619	705.699	0.00%	99.90%
90.0	0.016	0.157	705.856	0.00%	99.92%
95.0	0.016	0.009	705.865	0.00%	99.92%
100.0	0.016	0.009	705.873	0.00%	99.92%
105.0	0.016	0.009	705.882	0.00%	99.92%
110.0	0.016	0.008	705.89	0.00%	99.92%
115.0	0.048	0.016	705.906	0.00%	99.92%
120.0	0.016	0.015	705.922	0.00%	99.93%
125.0	0.016	0.007	705.929	0.00%	99.93%
130.0	0.016	0.007	705.936	0.00%	99.93%
135.0	0.064	0.016	705.952	0.00%	99.93%
140.0	0.112	0.032	705.985	0.00%	99.94%
145.0	0.143	0.043	706.027	0.00%	99.94%
150.0	0.207	0.052	706.079	0.00%	99.95%
155.0	0.303	0.064	706.143	0.00%	99.96%
160.0	0.430	0.077	706.22	0.00%	99.97%
165.0	0.557	0.081	706.301	0.00%	99.98%
170.0	0.621	0.070	706.371	0.00%	99.99%
175.0	0.780	0.050	706.421	0.00%	100.00%
180.0	0.764	0.018	706.44	0.00%	100.00%

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

Date:  
Humidity(%): 58%

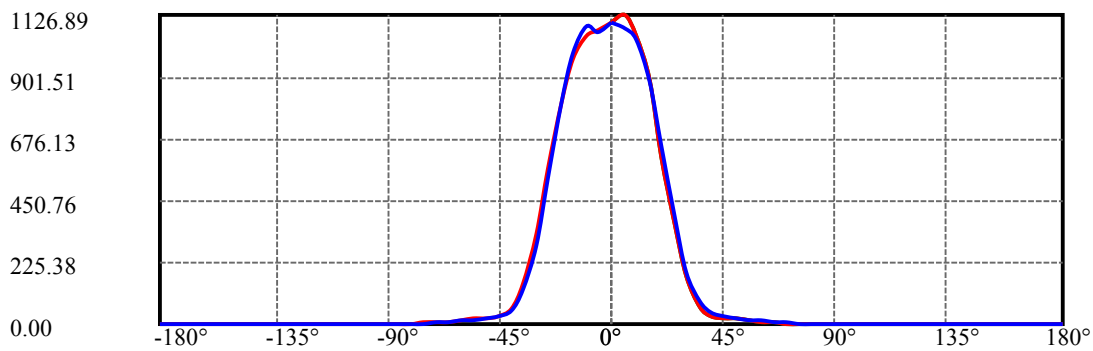
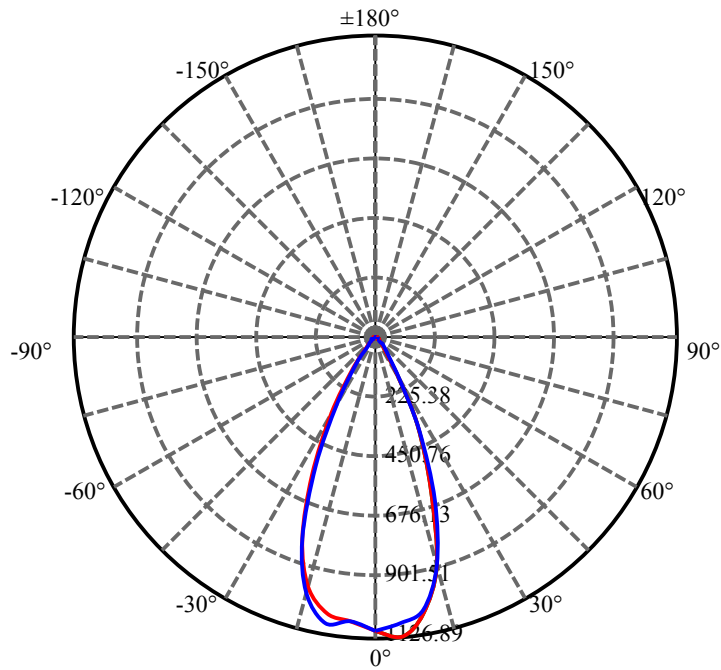
Operator: Jasper

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	567.82	N.A.	80.38%
0-40	650.29	N.A.	92.05%
0-60	692.73	N.A.	98.06%
0-90	705.86	N.A.	99.92%
0-120	705.92	N.A.	99.93%
0-180	706.44	N.A.	100.00%
60-90	13.13	N.A.	1.86%
90-120	0.07	N.A.	0.01%
90-130	0.08	N.A.	0.01%
90-150	0.22	N.A.	0.03%
90-180	0.57	N.A.	0.08%
0-29.85	565.15	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	102.53
10-20	250.63
20-30	214.66
30-40	82.47
40-50	26.48
50-60	15.95
60-70	8.92
70-80	3.44
80-90	0.78
90-100	0.02
100-110	0.02
110-120	0.03
120-130	0.01
130-140	0.05
140-150	0.09
150-160	0.14
160-170	0.15
170-180	0.05



C0(Max): ———

C0/C180: ———

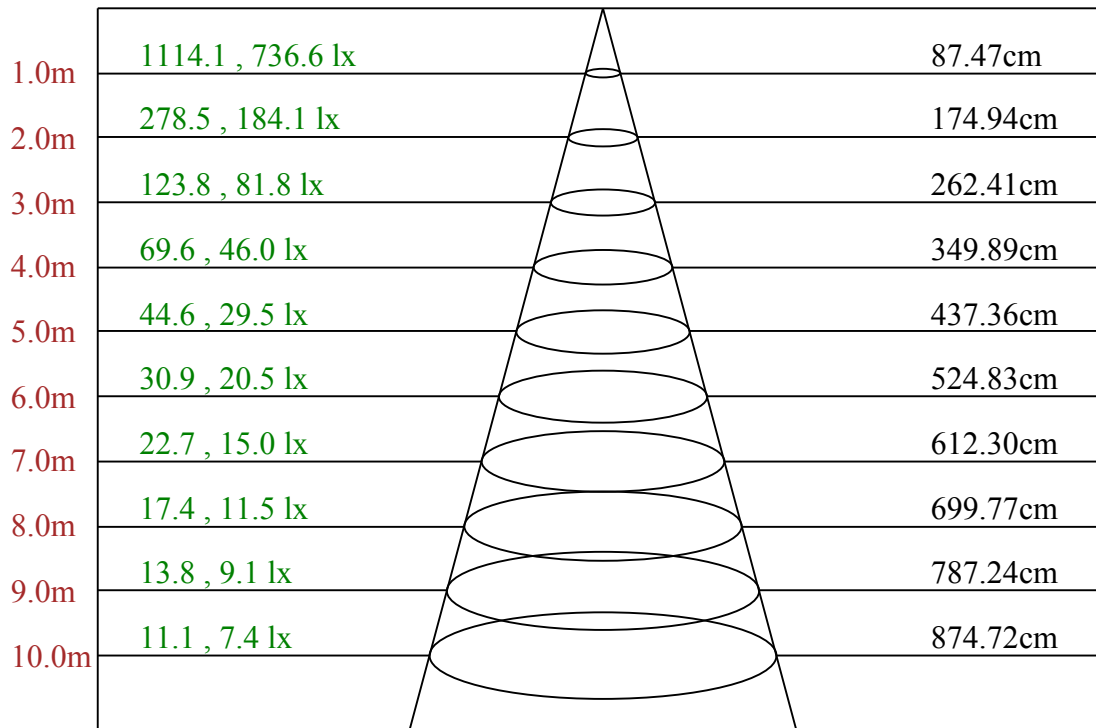
C90/C270: ———

Field angle(10%Imax):C0/180Left:36.9 Right:32.8

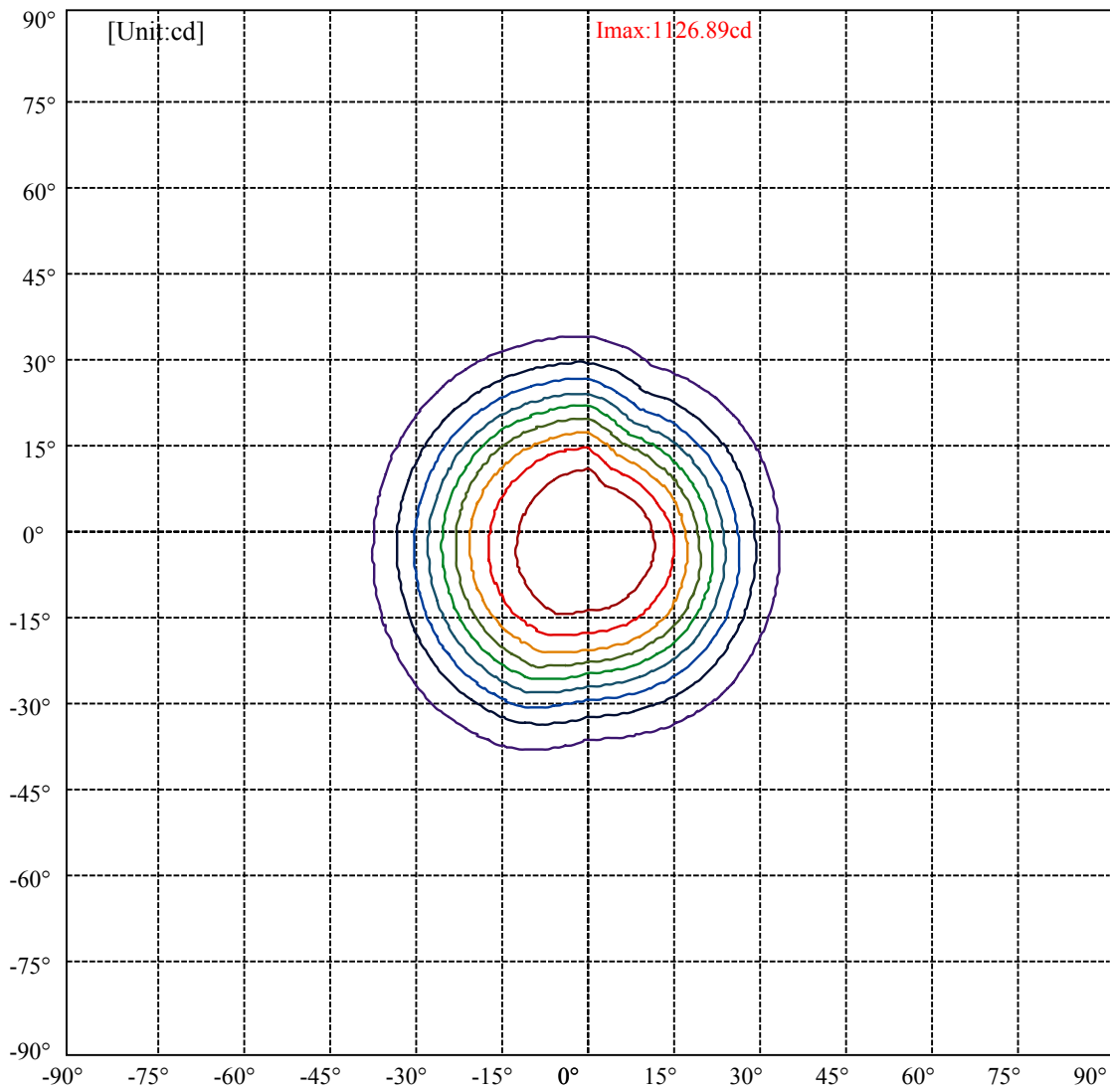
:C90/270Left:35.9 Right:33.8

Beam Angle(50%Imax):C0/180Left:25.1 Right:20.9

:C90/270Left:24.7 Right:22.0



Max , Ave      Beam angle of C0 plane 47.25



(10%Imax) 112.689	—
(20%Imax) 225.378	—
(30%Imax) 338.066	—
(40%Imax) 450.755	—
(50%Imax) 563.444	—
(60%Imax) 676.133	—
(70%Imax) 788.822	—
(80%Imax) 901.51	—
(90%Imax) 1014.2	—

## 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	1096.79	1126.89	1050.98	886.18	609.80	365.53	175.76	63.68	29.55
22.5	1096.79	1123.83	1018.12	819.19	547.91	318.91	150.80	60.11	32.60
45.0	1096.79	1113.13	990.36	759.84	499.00	275.86	131.69	58.84	37.44
67.5	1096.79	1113.39	970.74	740.73	461.81	250.90	117.68	52.98	33.37
90.0	1096.79	1075.69	1035.95	882.10	652.60	388.96	190.28	84.06	41.01
112.5	1096.79	1061.93	1032.90	890.25	667.37	407.56	206.32	88.64	44.58
135.0	1096.79	1062.44	1031.62	908.08	707.11	455.70	235.62	104.95	49.42
157.5	1096.79	1066.01	1040.03	933.05	762.38	504.35	275.61	120.99	52.22
180.0	1096.79	1068.05	1047.16	964.38	802.63	567.01	329.36	146.21	57.31
202.5	1096.79	1087.15	1060.41	990.10	843.38	615.92	373.93	180.34	74.38
225.0	1096.79	1100.91	1067.79	1005.13	869.62	650.05	412.65	211.16	94.50
247.5	1096.79	1111.86	1089.19	1018.63	878.03	672.47	424.62	220.59	96.29
270.0	1096.79	1066.52	1084.10	985.52	805.68	529.57	286.05	124.05	46.11
292.5	1096.79	1056.63	1073.65	988.32	799.06	519.63	284.52	127.11	51.20
315.0	1096.79	1077.98	1076.45	960.05	771.55	493.14	260.33	119.97	55.78
337.5	1096.79	1111.61	1075.44	931.77	710.16	435.83	220.08	85.59	34.90
360.0	1096.79	1126.89	1050.98	886.18	609.80	365.53	175.76	63.68	29.55
C/ $\gamma$ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	22.67	18.09	13.25	8.15	5.60	2.55	1.78	1.02	0.00
22.5	24.45	19.36	14.77	9.68	6.62	2.80	2.29	1.02	0.00
45.0	28.53	20.89	16.05	11.72	7.13	3.82	2.04	1.02	0.00
67.5	23.43	19.10	14.52	9.93	6.62	3.57	2.29	1.27	0.00
90.0	25.98	20.38	16.81	12.48	8.15	5.35	3.06	2.04	0.76
112.5	29.04	22.93	18.60	14.26	9.43	6.11	3.31	2.55	0.76
135.0	34.90	28.02	20.89	15.79	11.72	6.88	4.08	2.55	0.51
157.5	34.13	24.45	19.36	15.79	10.95	6.88	4.33	2.29	1.27
180.0	31.08	22.42	18.60	14.77	10.19	6.62	3.57	2.55	1.53
202.5	40.50	25.73	20.63	16.56	12.23	7.39	4.33	2.55	1.02
225.0	50.69	35.41	25.47	17.83	13.50	8.92	4.84	2.04	0.76
247.5	41.27	25.73	19.87	15.79	11.21	7.13	4.08	1.27	1.02
270.0	26.75	20.12	15.54	11.21	7.39	4.84	2.29	1.78	0.51
292.5	28.27	22.16	17.07	11.97	7.13	4.59	2.04	1.27	0.51
315.0	37.44	22.67	17.07	12.48	7.64	4.33	1.78	1.27	0.26
337.5	25.98	20.12	15.03	9.93	6.37	3.57	1.78	1.02	0.00
360.0	22.67	18.09	13.25	8.15	5.60	2.55	1.78	1.02	0.00
C/ $\gamma$ (°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
202.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
247.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.26	0.00	0.26	0.26	0.26	0.51	0.26	0.26	0.26
292.5	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
337.5	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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**Intensity data(cd)**

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<b>C/γ(°)</b>	<b>135.0</b>	<b>140.0</b>	<b>145.0</b>	<b>150.0</b>	<b>155.0</b>	<b>160.0</b>	<b>165.0</b>	<b>170.0</b>	<b>175.0</b>
<b>0.0</b>	<b>0.00</b>	<b>0.00</b>	<b>0.26</b>	<b>0.26</b>	<b>0.26</b>	<b>0.51</b>	<b>0.51</b>	<b>0.76</b>	<b>1.02</b>
<b>22.5</b>	<b>0.00</b>	<b>0.00</b>	<b>0.26</b>	<b>0.26</b>	<b>0.51</b>	<b>0.26</b>	<b>0.51</b>	<b>0.51</b>	<b>0.76</b>
<b>45.0</b>	<b>0.26</b>	<b>0.26</b>	<b>0.51</b>	<b>0.51</b>	<b>0.76</b>	<b>0.76</b>	<b>0.51</b>	<b>0.76</b>	<b>0.76</b>
<b>67.5</b>	<b>0.00</b>	<b>0.26</b>	<b>0.26</b>	<b>0.26</b>	<b>0.26</b>	<b>0.51</b>	<b>0.76</b>	<b>0.51</b>	<b>0.76</b>
<b>90.0</b>	<b>0.00</b>	<b>0.26</b>	<b>0.00</b>	<b>0.26</b>	<b>0.26</b>	<b>0.51</b>	<b>0.76</b>	<b>0.51</b>	<b>0.76</b>
<b>112.5</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.26</b>	<b>0.00</b>	<b>0.51</b>	<b>0.51</b>	<b>0.51</b>	<b>0.76</b>
<b>135.0</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.51</b>	<b>0.51</b>	<b>0.51</b>	<b>0.76</b>
<b>157.5</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.26</b>	<b>0.26</b>	<b>0.51</b>	<b>0.51</b>	<b>0.76</b>	<b>0.76</b>
<b>180.0</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.26</b>	<b>0.26</b>	<b>0.51</b>	<b>0.26</b>	<b>0.51</b>
<b>202.5</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.26</b>	<b>0.26</b>	<b>0.51</b>	<b>0.51</b>
<b>225.0</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.26</b>	<b>0.51</b>	<b>0.51</b>
<b>247.5</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.26</b>	<b>0.00</b>	<b>0.26</b>	<b>0.51</b>	<b>0.51</b>
<b>270.0</b>	<b>0.51</b>	<b>0.51</b>	<b>0.51</b>	<b>0.51</b>	<b>0.76</b>	<b>0.76</b>	<b>1.27</b>	<b>1.02</b>	<b>1.53</b>
<b>292.5</b>	<b>0.26</b>	<b>0.26</b>	<b>0.26</b>	<b>0.26</b>	<b>0.26</b>	<b>0.51</b>	<b>0.76</b>	<b>0.76</b>	<b>1.02</b>
<b>315.0</b>	<b>0.00</b>	<b>0.26</b>	<b>0.00</b>	<b>0.26</b>	<b>0.51</b>	<b>0.51</b>	<b>0.51</b>	<b>0.76</b>	<b>0.76</b>
<b>337.5</b>	<b>0.00</b>	<b>0.00</b>	<b>0.26</b>	<b>0.26</b>	<b>0.51</b>	<b>0.51</b>	<b>0.51</b>	<b>0.76</b>	<b>0.76</b>
<b>360.0</b>	<b>0.00</b>	<b>0.00</b>	<b>0.26</b>	<b>0.26</b>	<b>0.26</b>	<b>0.51</b>	<b>0.51</b>	<b>0.76</b>	<b>1.02</b>

<b>C/γ(°)</b>	<b>180.0</b>
<b>0.0</b>	<b>0.76</b>
<b>22.5</b>	<b>0.76</b>
<b>45.0</b>	<b>0.76</b>
<b>67.5</b>	<b>0.76</b>
<b>90.0</b>	<b>0.76</b>
<b>112.5</b>	<b>0.76</b>
<b>135.0</b>	<b>0.76</b>
<b>157.5</b>	<b>0.76</b>
<b>180.0</b>	<b>0.76</b>
<b>202.5</b>	<b>0.76</b>
<b>225.0</b>	<b>0.76</b>
<b>247.5</b>	<b>0.76</b>
<b>270.0</b>	<b>0.76</b>
<b>292.5</b>	<b>0.76</b>
<b>315.0</b>	<b>0.76</b>
<b>337.5</b>	<b>0.76</b>
<b>360.0</b>	<b>0.76</b>