



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

LumCAT:

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.04

LampCAT:

Current(A): 0.0940

Lamp flux(lm): -1.0

Power (W): 11.04

Number of Lamps: 0

PF: 0.9757

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 721.27, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 65.33

Central intensity(cd): 250.391, Maximum intensity(cd): 262.618

Angle of maximum intensity: C=112.5 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=109.4

[C90/270]Total=114.3

Field angle(10%Imax): [C0/180]Total=157.6

[C90/270]Total=161.8

Maximum s/h(1/2): C0_180=1.33 C90_270=1.29

Maximum s/h(1/4): C0_180=1.43 C90_270=1.41

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.72%

Down flux rate of LUM(%): 99.28%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 78.566%

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

Date:
Humidity(%): 58%

Operator: Tester

Zonal flux distribution table

Appendix Page: 2 Total:9

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	254.817	0.000	0	0.00%	0.00%
5.0	253.353	6.075	6.075	0.00%	0.84%
10.0	249.229	17.979	24.054	0.00%	3.33%
15.0	243.689	29.240	53.294	0.00%	7.39%
20.0	235.602	39.500	92.794	0.00%	12.87%
25.0	225.206	48.330	141.124	0.00%	19.57%
30.0	213.600	55.531	196.655	0.00%	27.27%
35.0	199.383	60.815	257.47	0.00%	35.70%
40.0	184.403	64.032	321.502	0.00%	44.57%
45.0	167.352	65.130	386.632	0.00%	53.60%
50.0	149.076	63.939	450.571	0.00%	62.47%
55.0	129.972	60.674	511.245	0.00%	70.88%
60.0	109.833	55.430	566.675	0.00%	78.57%
65.0	88.818	48.292	614.968	0.00%	85.26%
70.0	66.769	39.396	654.363	0.00%	90.72%
75.0	45.452	29.333	683.696	0.00%	94.79%
80.0	25.600	19.011	702.707	0.00%	97.43%
85.0	10.587	9.833	712.54	0.00%	98.79%
90.0	2.277	3.522	716.062	0.00%	99.28%
95.0	0.684	0.811	716.873	0.00%	99.39%
100.0	0.653	0.363	717.236	0.00%	99.44%
105.0	0.525	0.315	717.551	0.00%	99.48%
110.0	0.653	0.308	717.859	0.00%	99.53%
115.0	0.684	0.339	718.198	0.00%	99.57%
120.0	0.684	0.333	718.53	0.00%	99.62%
125.0	0.748	0.331	718.862	0.00%	99.67%
130.0	0.748	0.325	719.187	0.00%	99.71%
135.0	0.860	0.325	719.512	0.00%	99.76%
140.0	0.892	0.324	719.836	0.00%	99.80%
145.0	0.892	0.297	720.133	0.00%	99.84%
150.0	0.939	0.270	720.403	0.00%	99.88%
155.0	1.051	0.252	720.655	0.00%	99.91%
160.0	1.019	0.217	720.872	0.00%	99.94%
165.0	1.035	0.169	721.041	0.00%	99.97%
170.0	1.115	0.128	721.169	0.00%	99.99%
175.0	1.035	0.077	721.246	0.00%	100.00%
180.0	1.115	0.026	721.271	0.00%	100.00%

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

Date:
Humidity(%): 58%

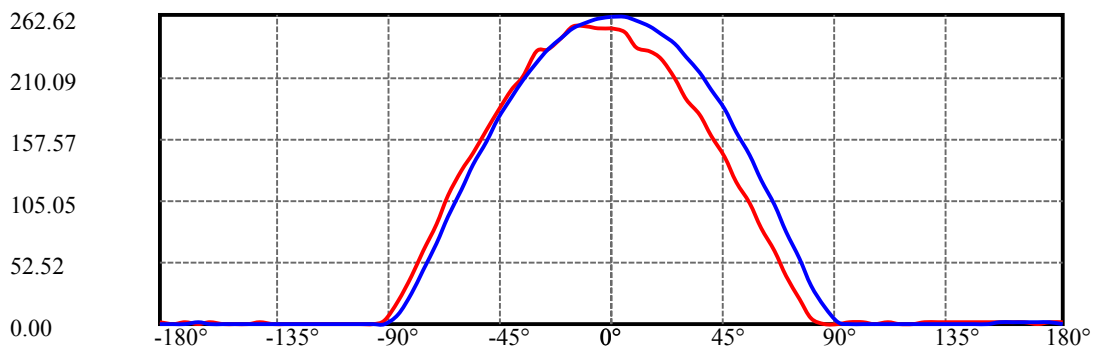
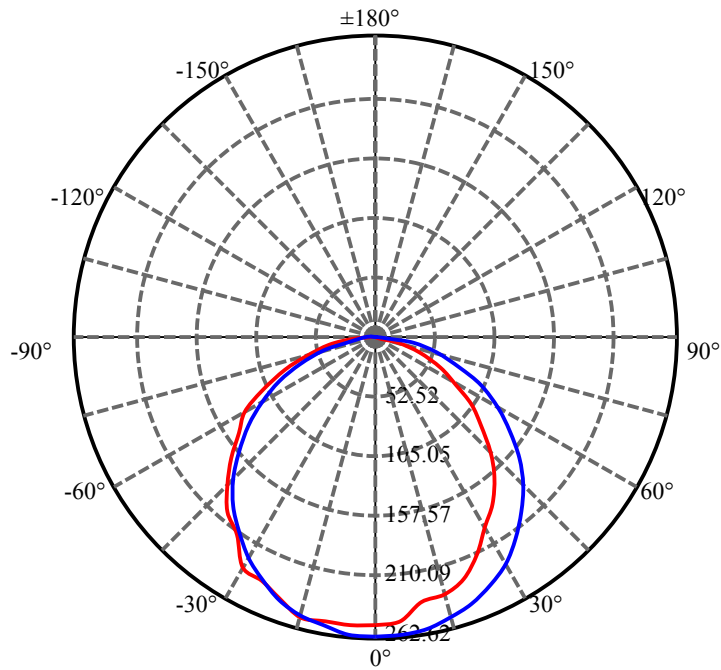
Operator: Tester

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	196.66	N.A.	27.27%
0-40	321.50	N.A.	44.57%
0-60	566.68	N.A.	78.57%
0-90	716.06	N.A.	99.28%
0-120	718.53	N.A.	99.62%
0-180	721.27	N.A.	100.00%
60-90	149.39	N.A.	20.71%
90-120	2.47	N.A.	0.34%
90-130	3.12	N.A.	0.43%
90-150	4.34	N.A.	0.60%
90-180	5.18	N.A.	0.72%
0-61.07	577.02	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	24.05
10-20	68.74
20-30	103.86
30-40	124.85
40-50	129.07
50-60	116.10
60-70	87.69
70-80	48.34
80-90	13.35
90-100	1.17
100-110	0.62
110-120	0.67
120-130	0.66
130-140	0.65
140-150	0.57
150-160	0.47
160-170	0.30
170-180	0.08

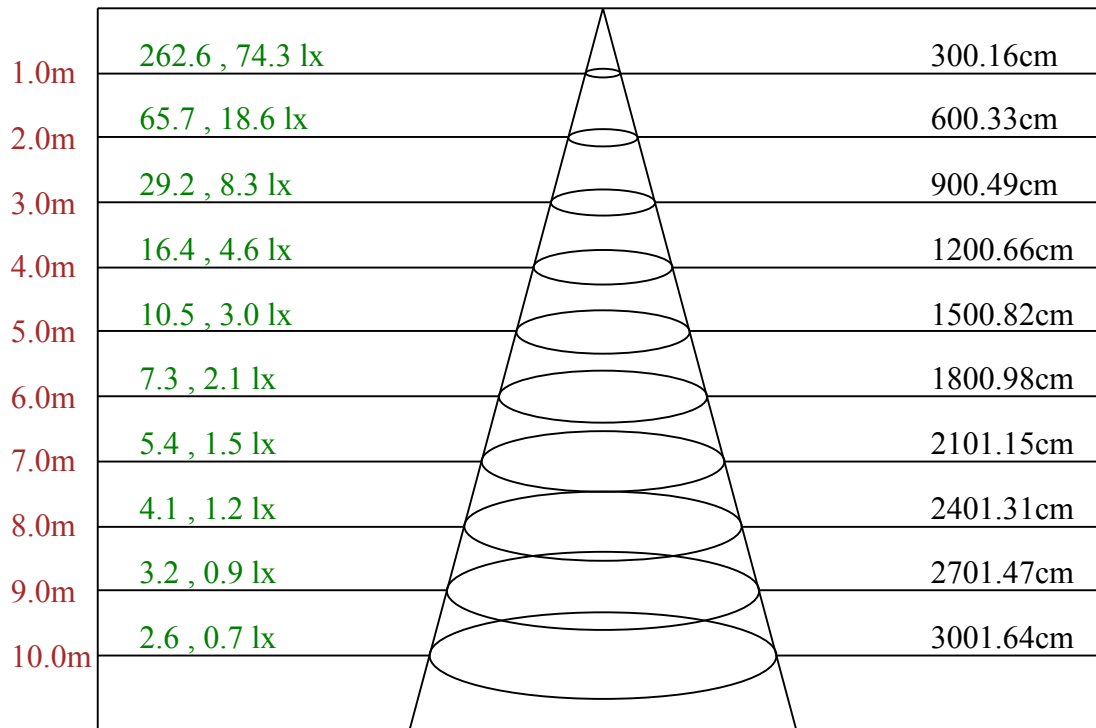


C0/C180: —

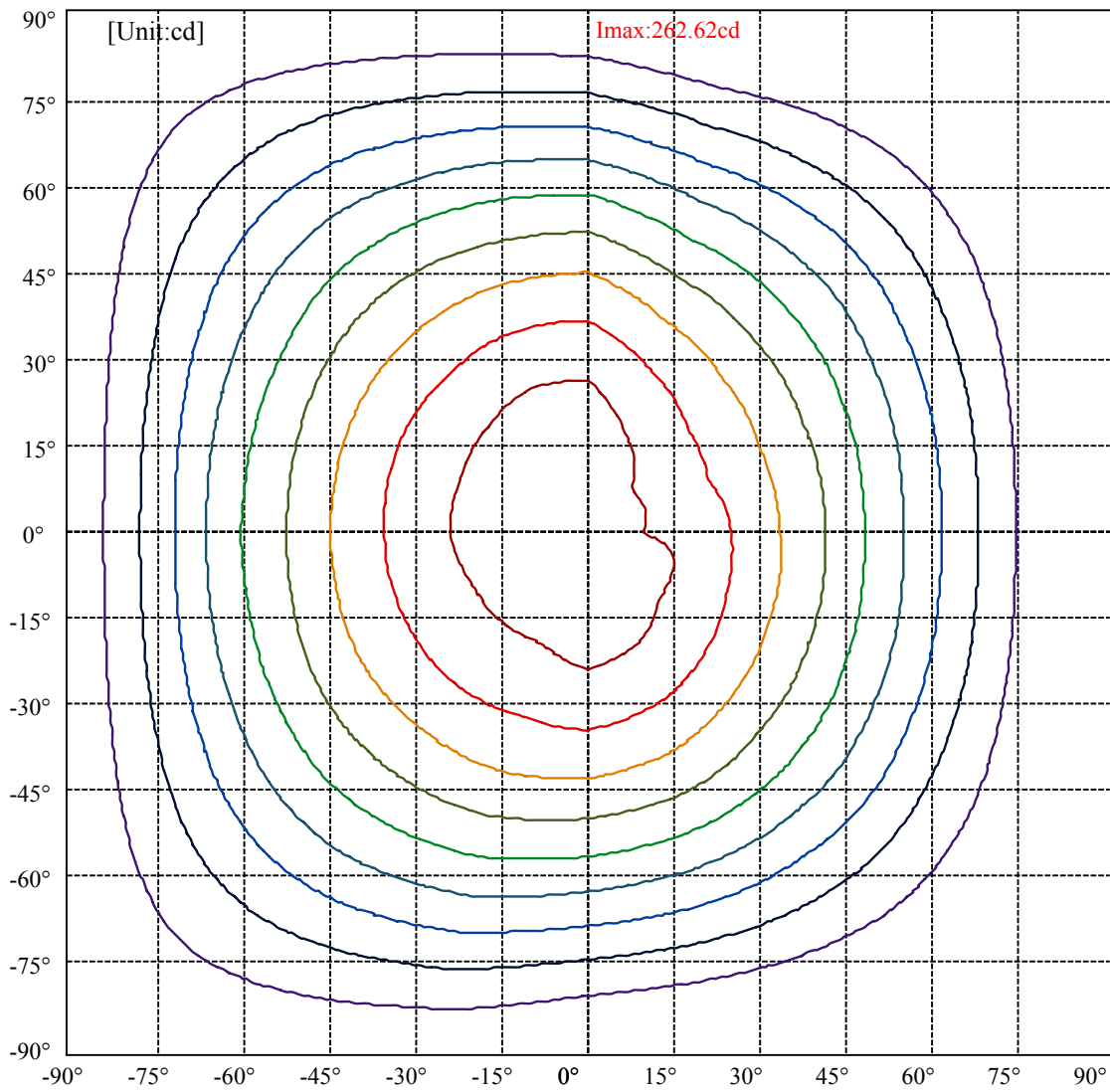
C90/C270: —

Field angle(10%Imax):C0/180Left:83.7 Right:73.9
 :C90/270Left:79.9 Right:81.9

Beam Angle(50%Imax):C0/180Left:60.9 Right:48.5
 :C90/270Left:56.1 Right:58.2



Max , Ave Beam angle of C112.5 plane 112.65

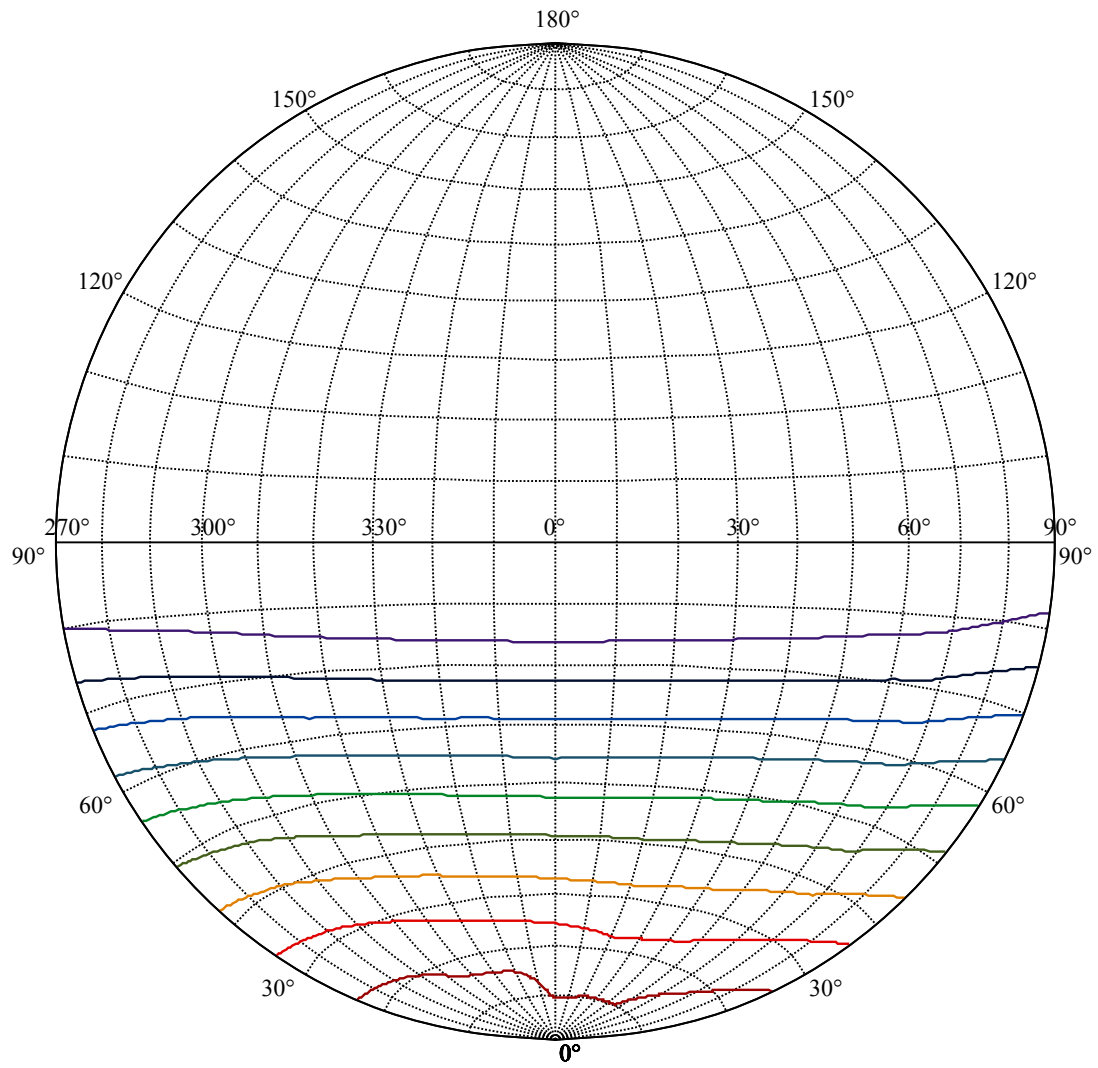


(10%Imax) 26.1917	—
(20%Imax) 52.3835	—
(30%Imax) 78.5752	—
(40%Imax) 104.767	—
(50%Imax) 130.959	—
(60%Imax) 157.15	—
(70%Imax) 183.342	—
(80%Imax) 209.534	—
(90%Imax) 235.726	—

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

Date:
Humidity(%): 58%










Operator: Tester



House

[Unit:cd]

Road

	I_{max}:262.62	
(10%I _{max})	26.2584	
(20%I _{max})	52.5168	
(30%I _{max})	78.7752	
(40%I _{max})	105.034	
(50%I _{max})	131.292	
(60%I _{max})	157.55	
(70%I _{max})	183.809	
(80%I _{max})	210.067	
(90%I _{max})	236.326	

Intensity data(cd)

C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	250.39	248.35	234.60	231.29	224.92	208.36	191.30	178.31	160.22
22.5	251.16	244.79	236.89	226.70	215.75	203.52	190.53	176.52	160.22
45.0	245.04	241.48	236.64	229.00	219.83	208.36	195.88	181.62	166.08
67.5	254.21	252.68	248.10	240.46	231.29	221.10	208.62	193.84	177.54
90.0	261.09	260.84	258.29	253.45	246.57	237.91	226.96	213.46	198.94
112.5	262.62	261.85	259.56	254.98	248.86	239.18	227.47	213.97	198.94
135.0	258.03	258.80	257.01	252.17	244.79	235.11	223.65	210.91	196.90
157.5	256.00	256.76	254.72	249.12	241.99	233.58	223.39	211.16	196.65
180.0	250.39	251.16	252.17	253.45	242.50	233.58	232.05	209.89	199.19
202.5	251.16	254.72	252.94	247.08	238.93	230.52	219.83	208.62	196.39
225.0	245.04	245.55	245.55	242.75	237.66	230.01	220.08	207.85	193.59
247.5	254.21	252.68	249.12	243.77	237.15	228.49	218.04	206.32	193.59
270.0	261.09	259.56	255.49	250.39	243.00	233.07	221.35	207.09	192.06
292.5	262.62	260.07	254.98	247.34	238.42	227.98	215.24	199.96	183.91
315.0	258.03	253.19	246.57	239.18	231.29	219.83	205.82	189.51	172.19
337.5	256.00	251.16	245.04	237.91	226.70	212.69	197.41	181.11	164.04
360.0	250.39	248.35	234.60	231.29	224.92	208.36	191.30	178.31	160.22
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	142.39	120.23	102.14	82.02	62.15	40.50	20.89	5.09	0.76
22.5	142.14	124.05	104.69	84.31	63.17	42.54	23.18	6.88	1.02
45.0	149.01	130.42	111.57	90.94	70.05	48.14	28.27	10.70	1.27
67.5	159.71	141.12	120.99	100.62	79.22	57.31	36.17	17.07	3.82
90.0	182.13	163.53	143.41	123.03	100.62	77.69	54.77	33.37	14.26
112.5	181.62	163.28	144.94	125.07	103.67	81.00	59.35	37.44	17.83
135.0	181.11	164.55	145.96	126.09	105.20	83.80	61.39	39.74	19.10
157.5	180.85	163.79	145.70	125.32	105.46	84.06	62.15	39.99	20.38
180.0	181.11	164.55	145.45	130.42	109.02	84.06	61.90	40.25	19.87
202.5	180.60	163.79	146.97	126.34	105.71	84.06	62.66	40.50	19.87
225.0	178.31	162.00	144.17	124.81	105.20	83.55	61.13	39.48	19.61
247.5	178.82	161.24	142.39	123.54	102.65	81.00	58.84	37.95	17.58
270.0	174.23	154.87	135.26	113.61	91.70	68.78	46.36	25.73	7.90
292.5	166.33	146.72	125.32	103.42	82.53	59.86	37.95	17.83	3.82
315.0	153.85	135.00	114.37	92.46	70.81	49.93	28.78	10.70	1.27
337.5	145.45	126.09	106.22	85.33	63.94	42.03	23.43	6.88	1.02
360.0	142.39	120.23	102.14	82.02	62.15	40.50	20.89	5.09	0.76
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.76	1.02	1.27	0.76	1.02	0.76	0.76	1.02	1.02
22.5	0.76	0.76	0.76	0.51	0.76	1.02	1.02	1.02	1.02
45.0	1.02	0.76	0.76	0.76	1.02	0.76	0.76	1.02	1.27
67.5	1.02	0.76	1.02	0.76	1.02	0.76	1.02	1.02	1.02
90.0	2.04	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51
112.5	3.31	0.76	0.26	0.26	0.51	0.51	0.26	0.51	0.51
135.0	4.08	0.51	0.26	0.26	0.26	0.26	0.51	0.51	0.51
157.5	4.59	0.51	0.51	0.51	0.26	0.76	0.51	0.51	0.51
180.0	4.08	0.76	0.26	0.26	0.26	0.76	0.51	0.51	0.51
202.5	4.59	0.51	0.76	0.26	0.76	0.51	0.51	0.51	0.51
225.0	3.82	0.76	0.51	0.51	0.51	0.51	0.26	0.51	0.76
247.5	3.57	0.51	0.51	0.26	0.51	0.51	0.51	0.76	0.51
270.0	0.51	0.76	0.51	0.26	0.51	0.76	0.51	0.51	0.51
292.5	0.76	0.76	1.02	0.76	0.76	0.76	1.02	1.02	1.02
315.0	0.76	0.76	0.76	0.76	0.76	1.02	1.27	1.02	1.02
337.5	0.76	0.51	0.76	1.02	1.02	0.76	1.02	1.02	0.76
360.0	0.76	1.02	1.27	0.76	1.02	0.76	0.76	1.02	1.02

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	1.02	1.02	1.02	1.27	1.02	1.02	1.02	0.76	1.27
22.5	1.02	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.02
45.0	1.27	1.02	1.27	1.02	1.27	0.76	1.02	1.02	1.02
67.5	1.27	1.27	1.02	1.02	1.27	1.27	1.27	1.27	1.27
90.0	0.26	0.76	0.51	0.76	1.02	1.02	1.02	1.02	1.02
112.5	0.76	0.76	0.76	1.02	0.76	1.27	0.76	1.02	1.02
135.0	0.76	0.76	0.51	0.76	1.27	1.27	0.76	1.27	1.27
157.5	0.51	0.76	0.76	1.02	1.02	0.76	1.02	1.27	1.02
180.0	0.76	1.02	0.51	0.76	0.76	1.02	0.76	1.27	0.76
202.5	0.76	0.51	0.76	0.76	0.76	0.76	1.02	1.27	1.02
225.0	0.51	0.76	0.76	1.02	1.02	0.76	0.76	1.02	1.02
247.5	0.76	0.51	0.76	0.76	1.02	1.02	1.02	1.02	1.02
270.0	0.76	0.76	0.76	0.51	0.76	0.76	1.02	0.76	0.76
292.5	1.02	1.02	1.27	1.27	1.02	1.02	1.53	1.27	1.02
315.0	1.02	1.27	1.27	0.76	1.27	1.02	1.02	1.27	1.02
337.5	1.27	0.76	1.02	1.02	1.27	1.27	1.27	1.02	1.02
360.0	1.02	1.02	1.02	1.27	1.02	1.02	1.02	0.76	1.27

C/γ(°)	180.0
0.0	1.02
22.5	1.27
45.0	1.27
67.5	1.02
90.0	0.76
112.5	0.76
135.0	1.27
157.5	1.53
180.0	1.02
202.5	1.27
225.0	1.27
247.5	1.02
270.0	0.76
292.5	0.76
315.0	1.27
337.5	1.53
360.0	1.02