



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

LumCAT:

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.11

LampCAT:

Current(A): 0.1030

Lamp flux(lm): -1.0

Power (W): 12.05

Number of Lamps: 1

PF: 0.9766

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1091.56, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 90.59

Central intensity(cd): 1603.539, Maximum intensity(cd): 1675.113

Angle of maximum intensity: C=270.0 γ =5.0

Beam Angle(50%Imax): [C0/180]Total=41.9

[C90/270]Total=40.9

Field angle(10%Imax): [C0/180]Total=80.8

[C90/270]Total=79.3

Maximum s/h(1/2): C0_180=0.68 C90_270=0.66

Maximum s/h(1/4): C0_180=0.66 C90_270=0.66

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 1.03%

Down flux rate of LUM(%): 98.97%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 94.600%

Zonal flux distribution table

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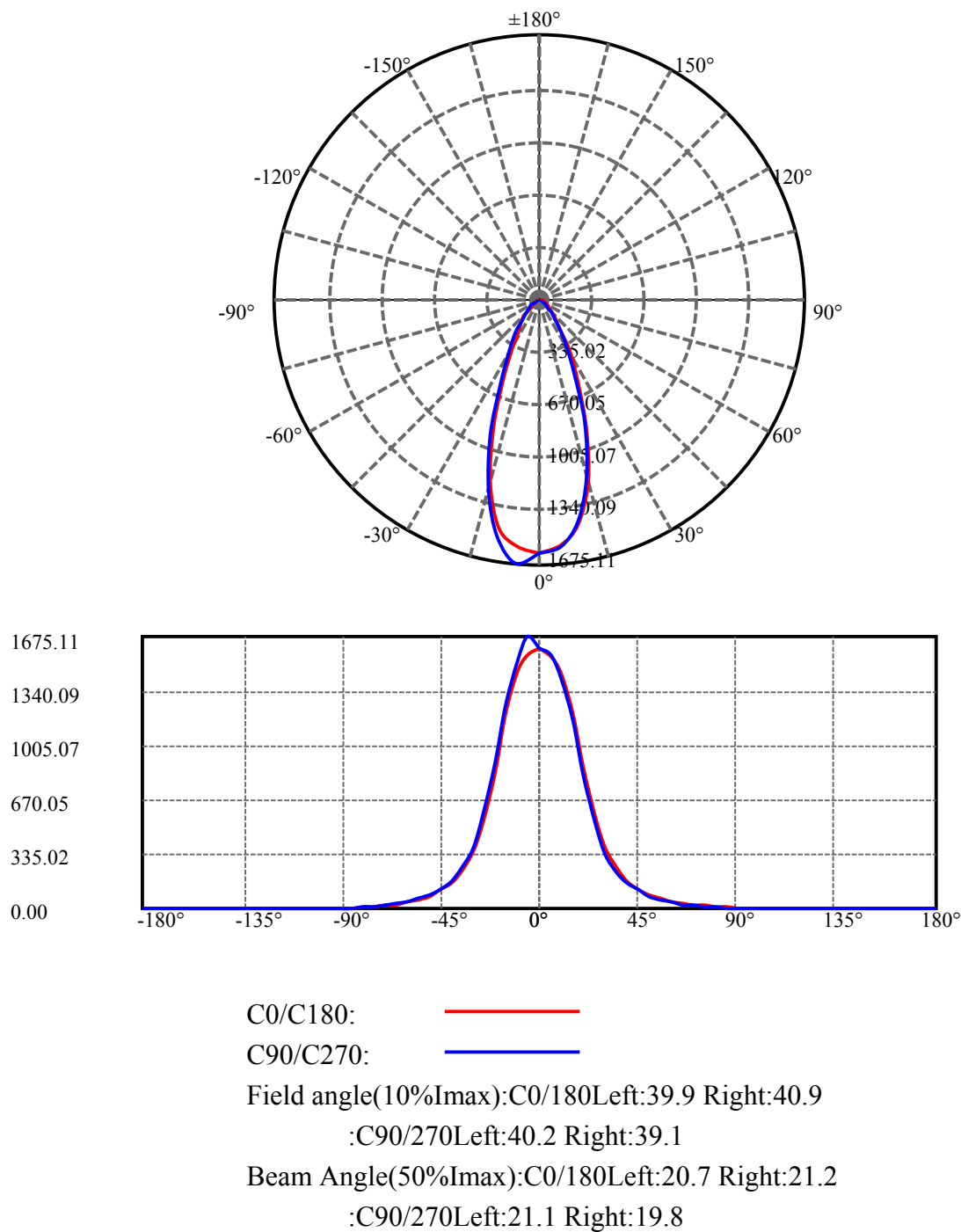
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1603.539	0.000	0	0.00%	0.00%
5.0	1580.462	38.064	38.064	0.00%	3.49%
10.0	1452.681	108.505	146.569	0.00%	13.43%
15.0	1192.727	156.924	303.493	0.00%	27.80%
20.0	858.991	169.090	472.583	0.00%	43.29%
25.0	556.211	148.429	621.012	0.00%	56.89%
30.0	356.822	115.545	736.557	0.00%	67.48%
35.0	236.519	87.374	823.931	0.00%	75.48%
40.0	162.477	66.569	890.5	0.00%	81.58%
45.0	113.782	51.151	941.651	0.00%	86.27%
50.0	79.912	39.139	980.79	0.00%	89.85%
55.0	56.347	29.627	1010.417	0.00%	92.57%
60.0	39.695	22.200	1032.617	0.00%	94.60%
65.0	27.608	16.362	1048.979	0.00%	96.10%
70.0	19.652	11.967	1060.946	0.00%	97.20%
75.0	13.304	8.614	1069.56	0.00%	97.98%
80.0	8.130	5.735	1075.295	0.00%	98.51%
85.0	4.044	3.308	1078.603	0.00%	98.81%
90.0	2.217	1.714	1080.318	0.00%	98.97%
95.0	1.652	1.059	1081.377	0.00%	99.07%
100.0	1.478	0.851	1082.228	0.00%	99.15%
105.0	1.478	0.791	1083.019	0.00%	99.22%
110.0	1.565	0.795	1083.814	0.00%	99.29%
115.0	1.696	0.826	1084.64	0.00%	99.37%
120.0	1.522	0.782	1085.422	0.00%	99.44%
125.0	1.565	0.714	1086.135	0.00%	99.50%
130.0	1.652	0.700	1086.835	0.00%	99.57%
135.0	1.609	0.659	1087.494	0.00%	99.63%
140.0	1.826	0.636	1088.13	0.00%	99.69%
145.0	2.000	0.638	1088.768	0.00%	99.74%
150.0	2.261	0.627	1089.395	0.00%	99.80%
155.0	2.261	0.572	1089.968	0.00%	99.85%
160.0	2.609	0.511	1090.478	0.00%	99.90%
165.0	2.870	0.452	1090.93	0.00%	99.94%
170.0	2.870	0.340	1091.27	0.00%	99.97%
175.0	3.087	0.213	1091.483	0.00%	99.99%
180.0	3.092	0.074	1091.557	0.00%	100.00%

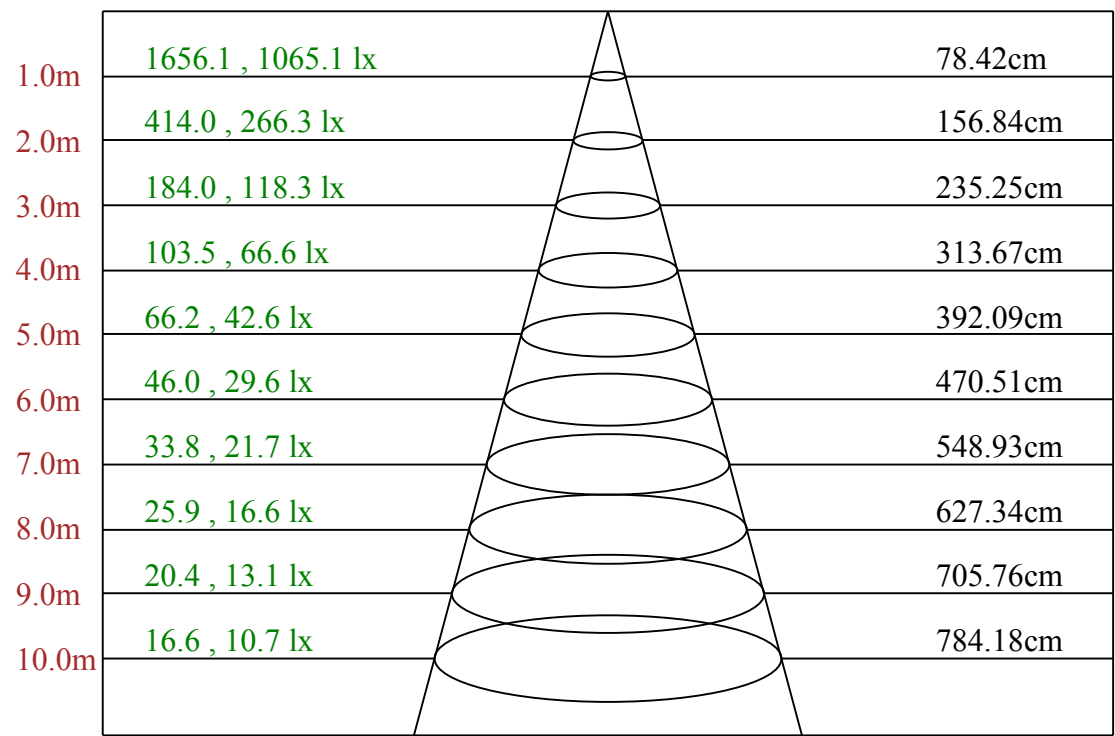
ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	736.56	N.A.	67.48%
0-40	890.50	N.A.	81.58%
0-60	1032.62	N.A.	94.60%
0-90	1080.32	N.A.	98.97%
0-120	1085.42	N.A.	99.44%
0-180	1091.56	N.A.	100.00%
60-90	47.70	N.A.	4.37%
90-120	5.10	N.A.	0.47%
90-130	6.52	N.A.	0.60%
90-150	9.08	N.A.	0.83%
90-180	11.17	N.A.	1.02%
0-38.70	873.25	N.A.	80.00%

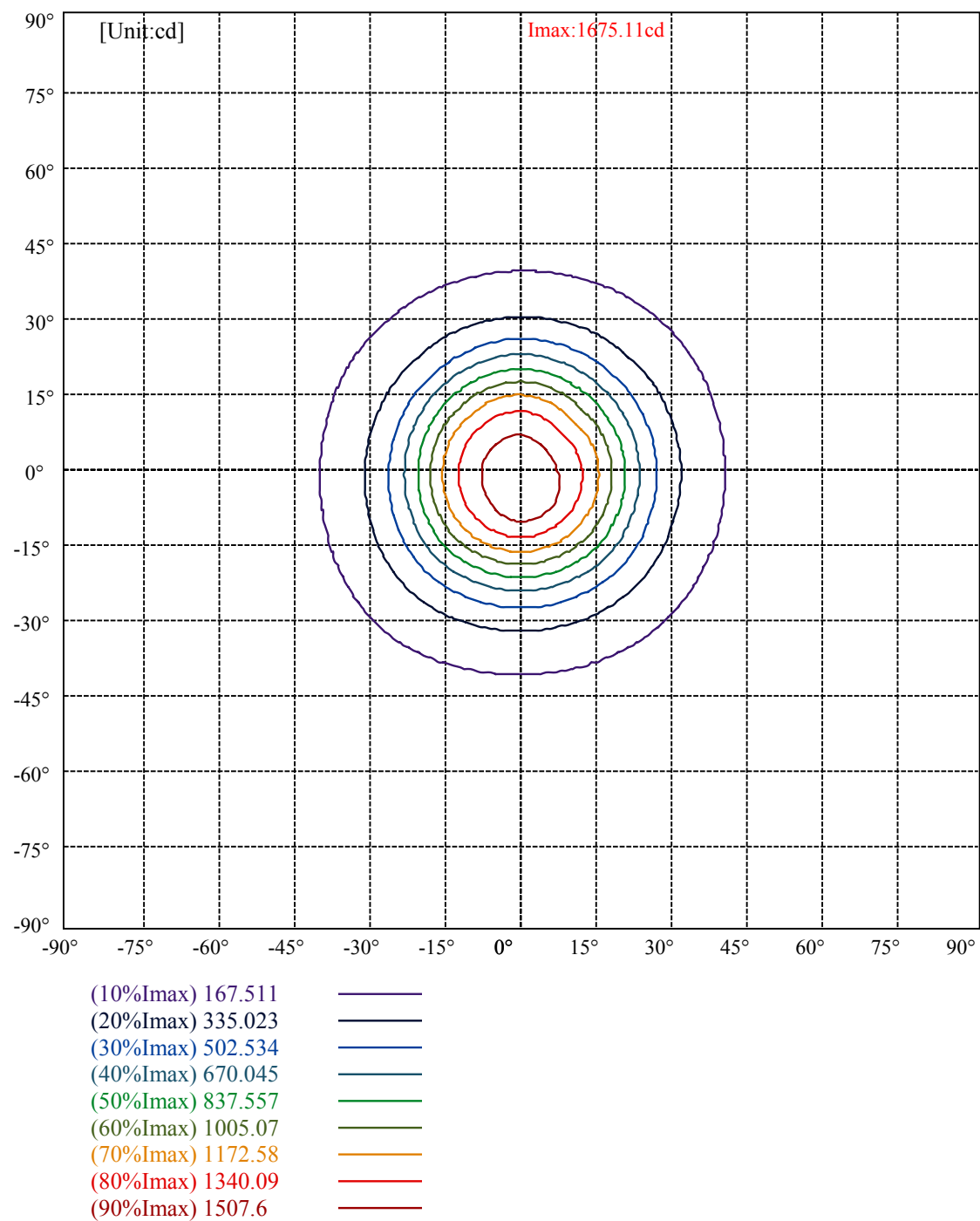
ZONAL LUMEN SUMMARY

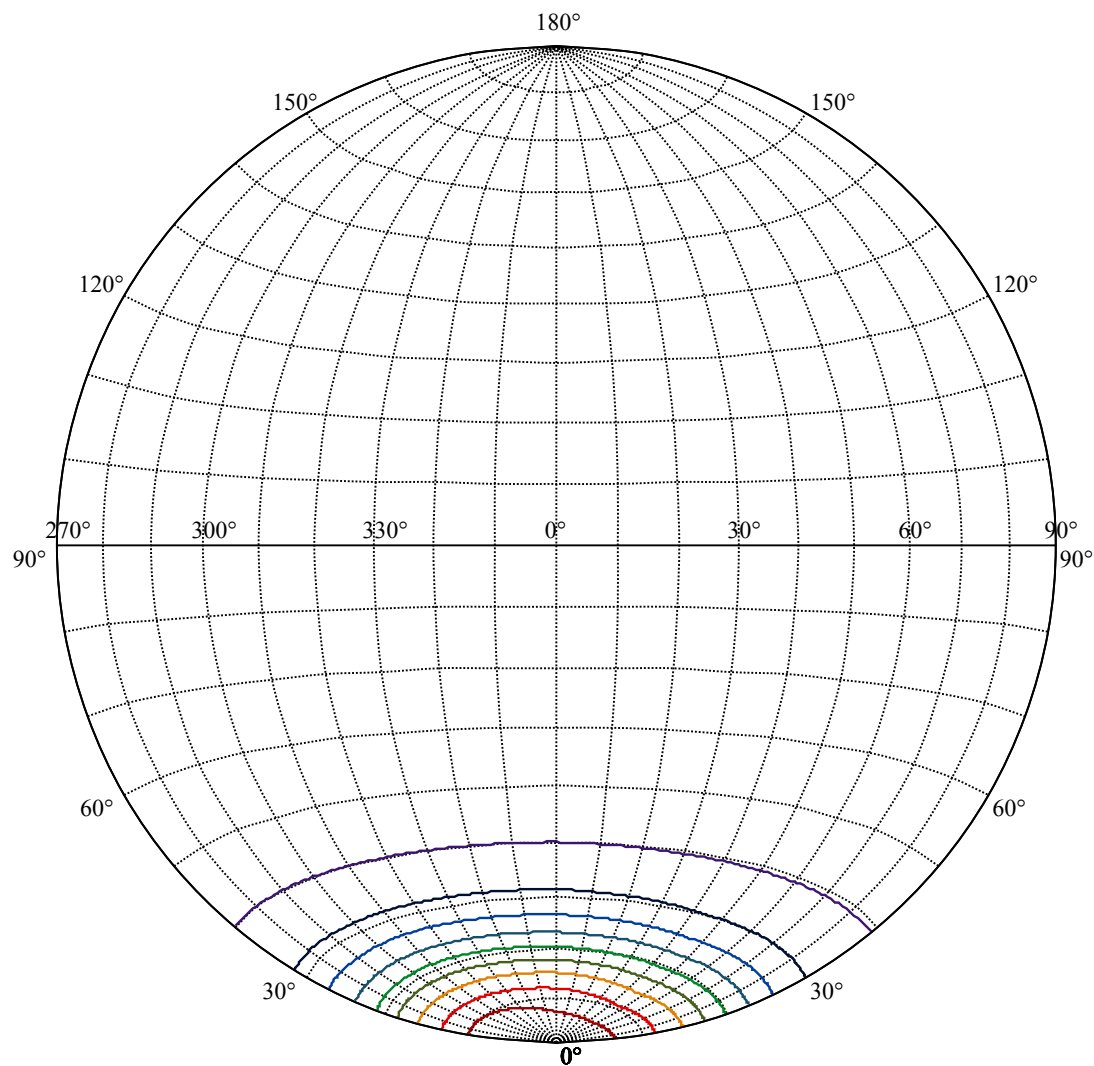
0-10	146.57
10-20	326.01
20-30	263.97
30-40	153.94
40-50	90.29
50-60	51.83
60-70	28.33
70-80	14.35
80-90	5.02
90-100	1.91
100-110	1.59
110-120	1.61
120-130	1.41
130-140	1.29
140-150	1.27
150-160	1.08
160-170	0.79
170-180	0.21





Max , Ave Beam angle of C270 plane 42.82





House

[Unit:cd]

Road

Imax:1675.11	
(10%Imax) 167.511	
(20%Imax) 335.023	
(30%Imax) 502.534	
(40%Imax) 670.045	
(50%Imax) 837.557	
(60%Imax) 1005.07	
(70%Imax) 1172.58	
(80%Imax) 1340.09	
(90%Imax) 1507.6	

C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	1603.54	1553.03	1442.77	1191.99	870.25	573.21	373.56	245.56	169.04
45.0	1603.54	1550.25	1373.20	1121.03	803.82	526.26	338.08	227.82	156.52
90.0	1603.54	1560.68	1418.77	1157.90	827.12	533.91	335.65	223.30	154.78
135.0	1603.54	1559.98	1428.16	1148.86	806.95	504.69	316.87	211.48	148.17
180.0	1603.54	1562.42	1458.07	1197.21	845.90	537.04	351.30	232.00	159.30
225.0	1603.54	1572.51	1484.51	1243.12	904.34	587.82	381.56	254.61	174.61
270.0	1603.54	1675.11	1519.64	1249.73	907.47	593.04	378.78	251.13	169.04
315.0	1603.54	1609.72	1496.33	1231.99	906.08	593.73	378.78	246.26	168.35
360.0	1603.54	1553.03	1442.77	1191.99	870.25	573.21	373.56	245.56	169.04
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	119.30	87.65	62.96	44.87	31.65	24.00	16.70	11.13	6.26
45.0	109.91	78.61	55.30	39.30	27.83	20.52	14.26	8.70	4.17
90.0	109.56	76.17	52.52	36.52	25.39	17.39	11.48	6.96	3.13
135.0	102.96	70.61	49.74	34.78	23.65	16.00	10.44	5.57	2.78
180.0	110.61	75.83	53.57	37.57	25.74	18.44	11.83	6.96	2.78
225.0	122.09	83.13	59.13	41.74	29.22	19.83	13.91	8.35	3.83
270.0	118.26	83.83	59.13	41.04	28.52	20.52	13.91	8.70	4.87
315.0	117.56	83.48	58.43	41.74	28.87	20.52	13.91	8.70	4.52
360.0	119.30	87.65	62.96	44.87	31.65	24.00	16.70	11.13	6.26
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	4.17	2.44	2.09	2.44	2.09	2.09	2.09	2.09	1.74
45.0	3.13	2.09	2.09	2.09	2.09	2.09	1.39	1.74	2.09
90.0	1.04	1.74	1.39	1.39	1.04	1.39	1.74	1.39	1.74
135.0	1.04	0.70	0.35	0.35	1.04	1.04	1.04	0.70	1.04
180.0	1.04	1.04	1.04	0.70	1.04	1.04	1.39	0.70	1.04
225.0	1.39	1.04	0.70	1.04	1.04	1.04	0.70	1.04	1.04
270.0	3.13	2.09	2.09	2.09	2.09	2.78	2.09	2.44	2.44
315.0	2.78	2.09	2.09	1.74	2.09	2.09	1.74	2.44	2.09
360.0	4.17	2.44	2.09	2.44	2.09	2.09	2.09	2.09	1.74
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	1.39	1.74	1.74	2.09	2.09	2.78	2.78	3.13	2.78
45.0	2.09	2.09	2.09	2.44	2.44	2.44	2.78	2.78	3.13
90.0	2.09	1.74	2.44	2.09	2.44	2.78	3.13	2.78	3.13
135.0	1.39	1.39	1.74	2.09	2.09	2.44	2.78	2.78	2.78
180.0	0.70	2.09	1.74	1.74	1.74	2.09	2.44	2.44	2.44
225.0	0.70	1.04	1.39	1.74	1.74	2.09	2.44	2.09	3.13
270.0	2.44	2.78	3.13	3.48	3.13	3.48	3.83	4.17	4.17
315.0	2.09	1.74	1.74	2.44	2.44	2.78	2.78	2.78	3.13
360.0	1.39	1.74	1.74	2.09	2.09	2.78	2.78	3.13	2.78
C/γ(°)	180.0								
0.0	3.09								
45.0	3.09								
90.0	3.09								
135.0	3.09								
180.0	3.09								
225.0	3.09								
270.0	3.09								
315.0	3.09								
360.0	3.09								