



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

LumCAT: LL3R-5CCT-4000K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.12

LampCAT:

Current(A): 0.0910

Lamp flux(lm): -1.0

Power (W): 10.64

Number of Lamps: 1

PF: 0.9782

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 937.26, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 88.13

Central intensity(cd): 1624.493, Maximum intensity(cd): 1624.493

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=38.4

[C90/270]Total=38.3

Field angle(10%Imax): [C0/180]Total=68.8

[C90/270]Total=69.1

Maximum s/h(1/2): C0_180=0.62 C90_270=0.66

Maximum s/h(1/4): C0_180=0.63 C90_270=0.65

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.54%

Down flux rate of LUM(%): 99.46%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 92.980%

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

Date:
Humidity(%): 59%

Operator: Tester

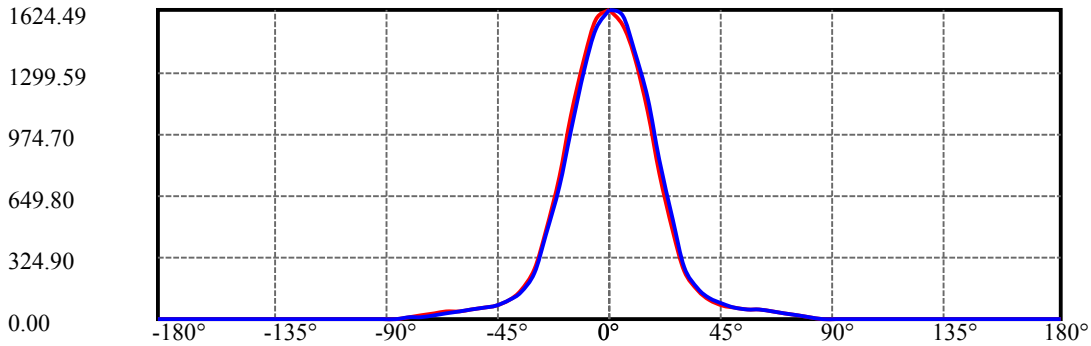
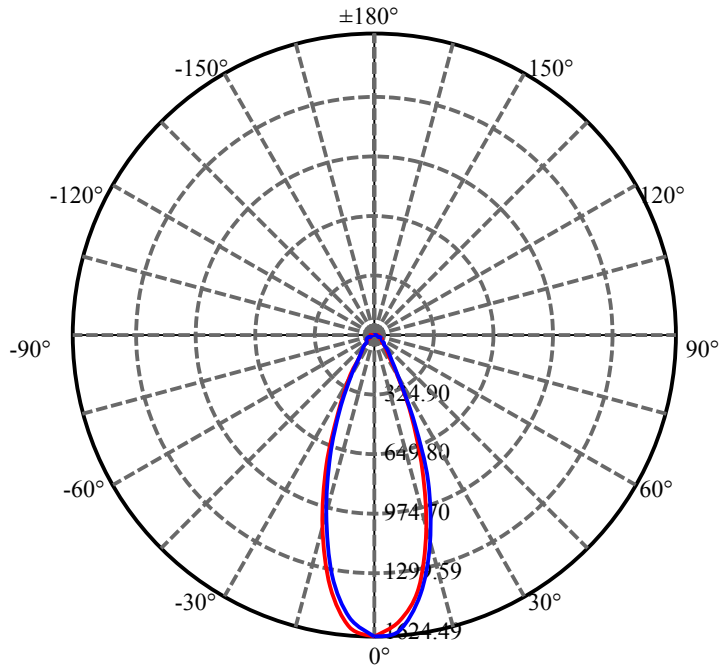
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1624.493	0.000	0	0.00%	0.00%
5.0	1560.075	38.071	38.071	0.00%	4.06%
10.0	1367.545	104.730	142.801	0.00%	15.24%
15.0	1075.859	144.941	287.742	0.00%	30.70%
20.0	765.609	151.763	439.505	0.00%	46.89%
25.0	476.291	130.252	569.757	0.00%	60.79%
30.0	259.137	93.069	662.826	0.00%	70.72%
35.0	150.097	60.263	723.089	0.00%	77.15%
40.0	101.577	41.990	765.079	0.00%	81.63%
45.0	74.281	32.562	797.64	0.00%	85.10%
50.0	59.475	27.027	824.668	0.00%	87.99%
55.0	51.801	24.195	848.863	0.00%	90.57%
60.0	45.979	22.602	871.464	0.00%	92.98%
65.0	38.490	20.535	891.999	0.00%	95.17%
70.0	28.792	17.036	909.035	0.00%	96.99%
75.0	17.981	12.226	921.261	0.00%	98.29%
80.0	8.230	7.013	928.274	0.00%	99.04%
85.0	2.686	2.966	931.241	0.00%	99.36%
90.0	0.834	0.964	932.204	0.00%	99.46%
95.0	0.529	0.373	932.577	0.00%	99.50%
100.0	0.476	0.273	932.851	0.00%	99.53%
105.0	0.622	0.294	933.144	0.00%	99.56%
110.0	0.529	0.301	933.445	0.00%	99.59%
115.0	0.595	0.285	933.73	0.00%	99.62%
120.0	0.609	0.293	934.023	0.00%	99.65%
125.0	0.661	0.294	934.316	0.00%	99.69%
130.0	0.661	0.288	934.604	0.00%	99.72%
135.0	0.807	0.297	934.901	0.00%	99.75%
140.0	0.953	0.326	935.227	0.00%	99.78%
145.0	1.098	0.342	935.569	0.00%	99.82%
150.0	1.257	0.347	935.916	0.00%	99.86%
155.0	1.455	0.343	936.259	0.00%	99.89%
160.0	1.588	0.319	936.578	0.00%	99.93%
165.0	1.826	0.281	936.859	0.00%	99.96%
170.0	1.879	0.220	937.079	0.00%	99.98%
175.0	1.879	0.134	937.214	0.00%	99.99%
180.0	2.067	0.047	937.261	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	662.83	N.A.	70.72%
0-40	765.08	N.A.	81.63%
0-60	871.46	N.A.	92.98%
0-90	932.20	N.A.	99.46%
0-120	934.02	N.A.	99.65%
0-180	937.26	N.A.	100.00%
60-90	60.74	N.A.	6.48%
90-120	1.82	N.A.	0.19%
90-130	2.40	N.A.	0.26%
90-150	3.71	N.A.	0.40%
90-180	5.01	N.A.	0.53%
0-38.18	749.81	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	142.80
10-20	296.70
20-30	223.32
30-40	102.25
40-50	59.59
50-60	46.80
60-70	37.57
70-80	19.24
80-90	3.93
90-100	0.65
100-110	0.59
110-120	0.58
120-130	0.58
130-140	0.62
140-150	0.69
150-160	0.66
160-170	0.50
170-180	0.13

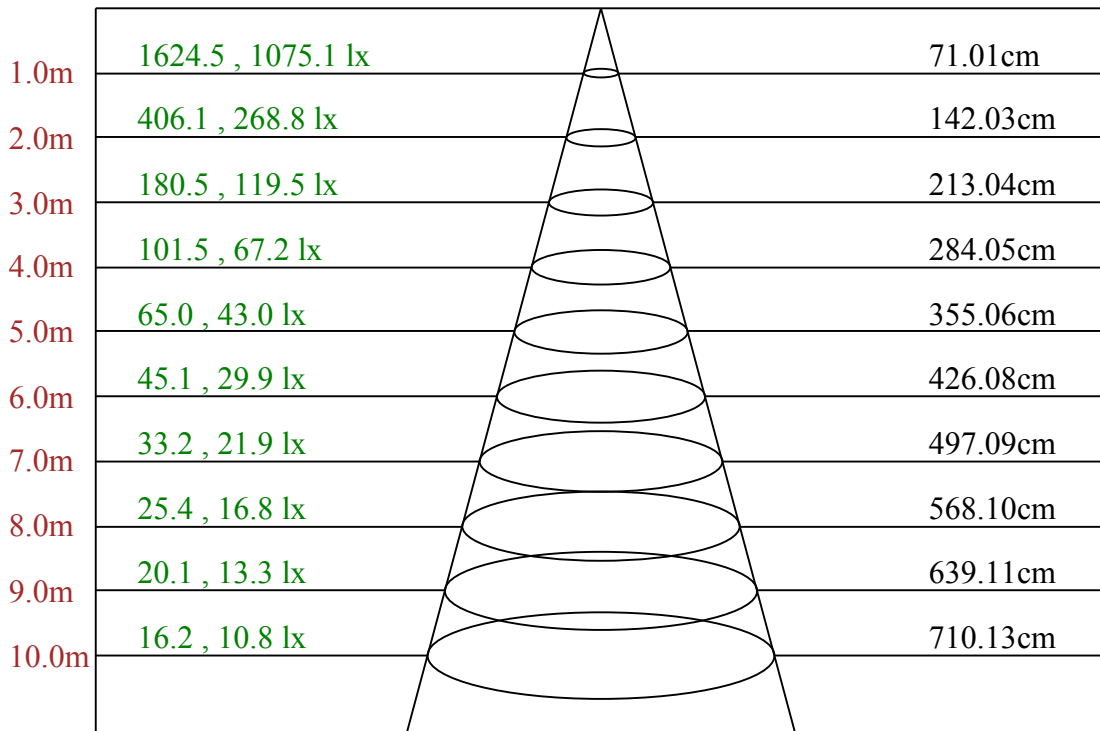


C0/C180: —

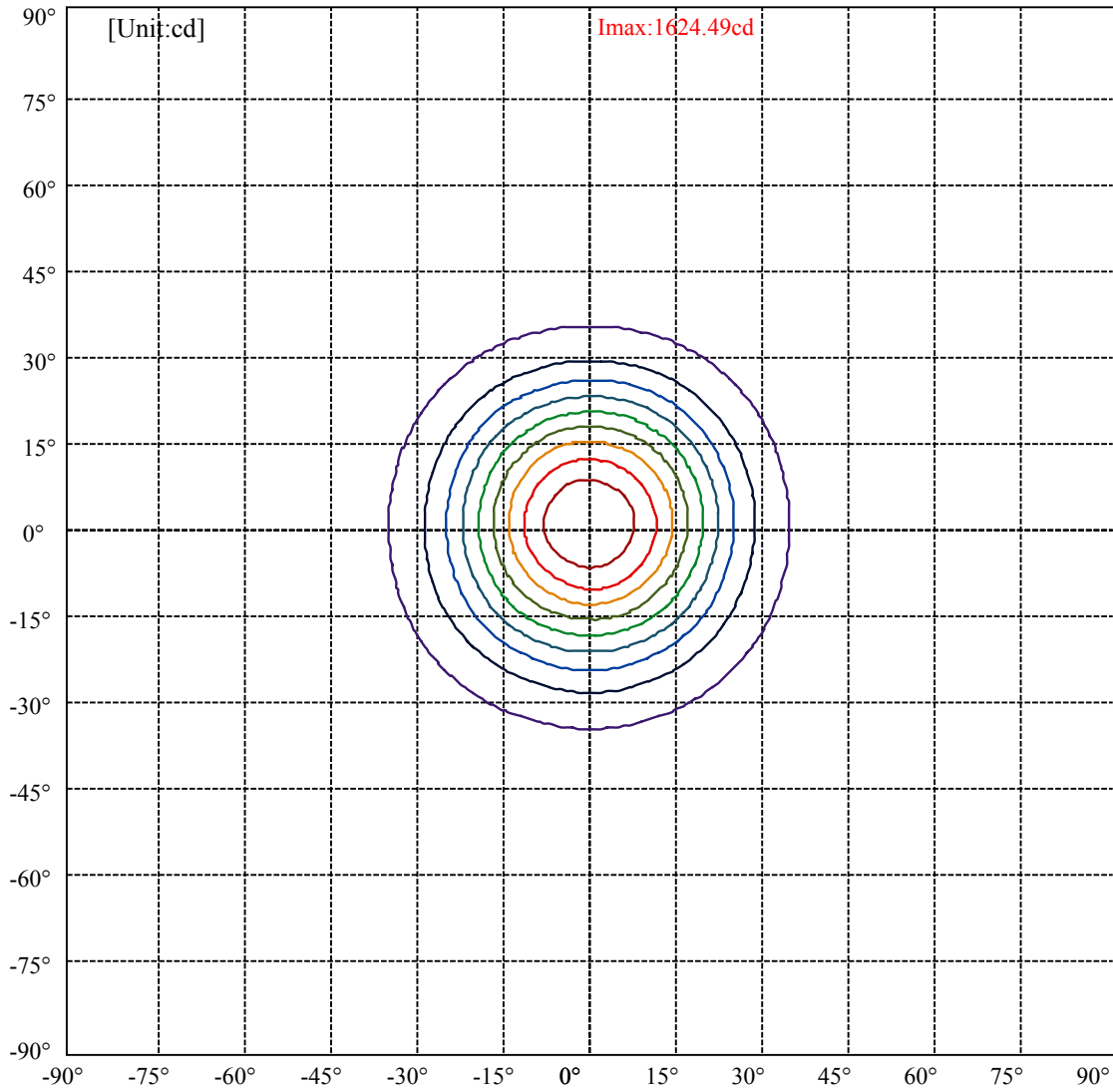
C90/C270: —

Field angle(10%I_{max}):C0/180Left:34.5 Right:34.3
:C90/270Left:34.2 Right:34.9

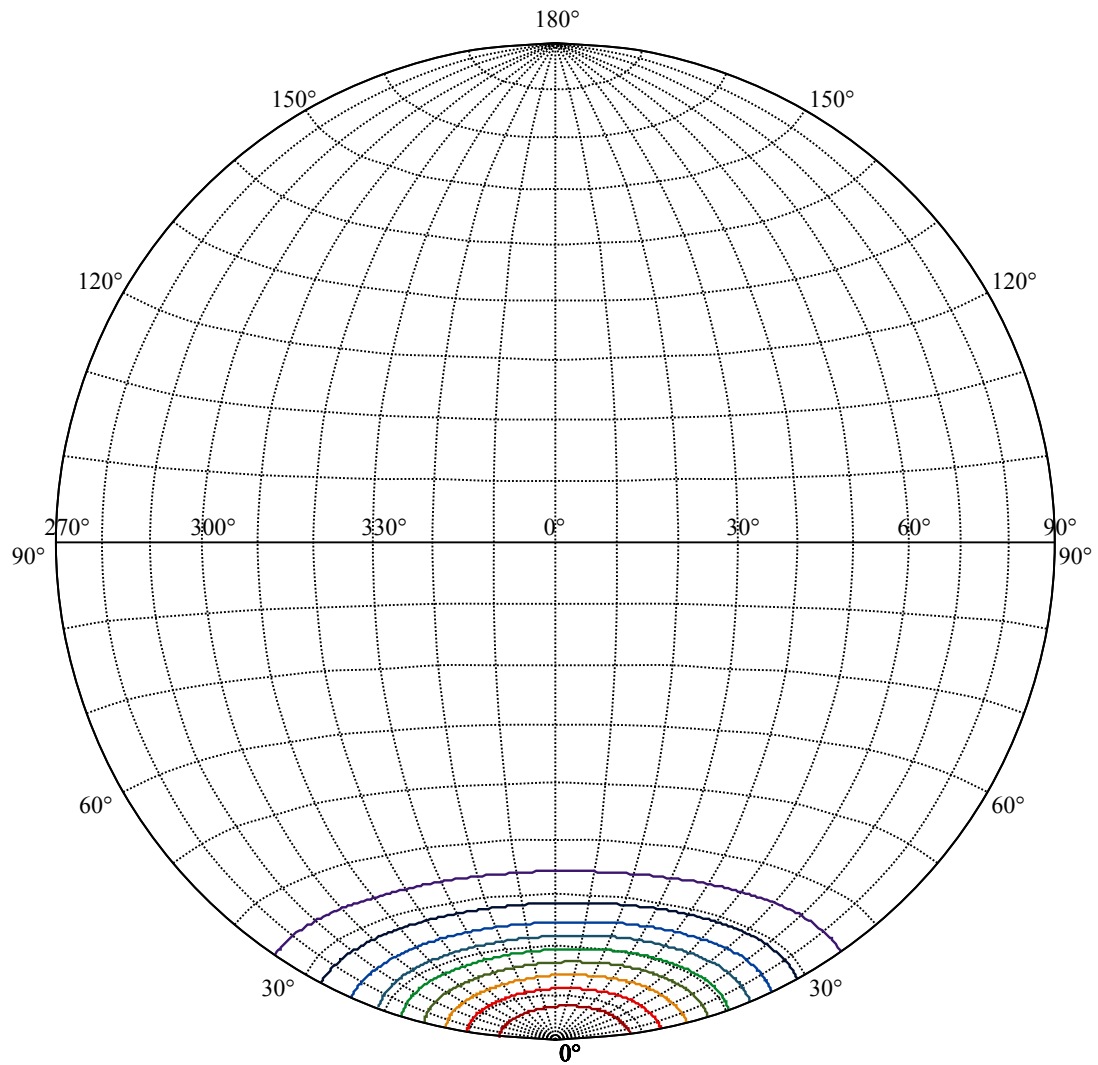
Beam Angle(50%I_{max}):C0/180Left:19.0 Right:19.4
:C90/270Left:18.0 Right:20.3



Max , Ave Beam angle of C0 plane 39.10



(10%Imax) 162.449	—
(20%Imax) 324.899	—
(30%Imax) 487.348	—
(40%Imax) 649.797	—
(50%Imax) 812.247	—
(60%Imax) 974.696	—
(70%Imax) 1137.15	—
(80%Imax) 1299.59	—
(90%Imax) 1462.04	—



House

[Unit:cd]

Road

Imax:1624.49

(10%Imax) 162.449	—
(20%Imax) 324.899	—
(30%Imax) 487.348	—
(40%Imax) 649.797	—
(50%Imax) 812.247	—
(60%Imax) 974.696	—
(70%Imax) 1137.15	—
(80%Imax) 1299.59	—
(90%Imax) 1462.04	—

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	1624.49	1546.91	1382.84	1088.36	771.44	466.59	256.16	147.98	99.50
22.5	1624.49	1562.79	1396.81	1113.98	811.46	499.83	268.02	150.31	102.25
45.0	1624.49	1574.01	1409.09	1139.38	829.87	517.40	279.02	156.87	104.58
67.5	1624.49	1580.78	1406.55	1142.98	841.31	536.24	287.28	162.16	108.60
90.0	1624.49	1596.03	1415.87	1156.32	833.68	521.85	276.91	160.26	108.18
112.5	1624.49	1595.18	1419.04	1151.24	825.85	520.37	282.41	161.11	107.33
135.0	1624.49	1595.60	1406.55	1131.34	801.08	514.65	275.64	156.45	106.28
157.5	1624.49	1589.89	1389.19	1097.47	781.39	486.92	266.53	156.03	103.95
180.0	1624.49	1578.24	1377.13	1071.43	748.79	464.69	259.76	151.79	100.77
202.5	1624.49	1563.85	1341.77	1041.37	724.45	456.64	258.70	147.13	98.65
225.0	1624.49	1543.10	1308.96	1021.47	722.54	439.92	242.61	141.84	99.08
247.5	1624.49	1526.59	1297.74	999.87	707.09	431.87	236.68	141.42	96.75
270.0	1624.49	1522.56	1309.80	992.89	691.21	444.79	245.15	146.08	98.87
292.5	1624.49	1523.41	1325.05	1004.95	706.88	433.14	238.17	142.05	96.96
315.0	1624.49	1525.95	1335.84	1014.90	715.55	436.95	231.81	137.82	95.90
337.5	1624.49	1536.33	1358.50	1045.81	737.15	448.81	241.34	142.26	97.60
360.0	1624.49	1546.91	1382.84	1088.36	771.44	466.59	256.16	147.98	99.50
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	71.34	57.80	50.60	45.52	38.95	29.85	19.27	9.10	3.18
22.5	73.88	58.64	52.08	48.69	43.19	35.14	22.86	10.59	3.60
45.0	76.00	60.76	53.14	48.90	42.34	33.45	22.02	10.59	4.45
67.5	78.12	61.82	53.56	48.90	42.98	34.08	23.92	11.86	3.60
90.0	78.75	63.30	55.47	50.60	43.61	34.72	21.81	8.05	2.54
112.5	79.18	63.51	55.89	50.81	44.25	33.66	21.59	9.10	2.12
135.0	77.91	62.24	54.62	49.54	42.34	31.54	19.48	9.53	2.75
157.5	76.00	60.55	52.50	46.58	37.68	27.52	16.51	7.62	2.54
180.0	73.88	59.70	51.87	44.88	36.84	26.46	16.30	7.20	2.33
202.5	72.83	58.43	51.23	44.67	36.20	25.40	14.61	6.35	1.69
225.0	72.40	58.85	51.23	44.03	34.72	23.92	13.55	5.93	1.48
247.5	72.40	58.43	50.81	42.98	34.51	23.92	13.76	5.93	1.91
270.0	73.25	58.22	49.96	43.19	34.93	24.98	14.18	6.35	2.75
292.5	71.34	57.16	48.90	42.13	33.87	24.98	15.45	7.20	2.33
315.0	70.07	55.68	47.42	40.44	32.39	23.29	14.82	7.62	2.75
337.5	71.13	56.53	49.54	43.82	37.05	27.73	17.57	8.68	2.96
360.0	71.34	57.80	50.60	45.52	38.95	29.85	19.27	9.10	3.18
C/ γ (°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.64	0.42	0.64	0.64	0.64	0.85	0.64	0.85	0.64
22.5	0.85	0.42	0.64	0.64	0.64	0.64	0.64	0.85	0.64
45.0	0.85	0.42	0.42	0.64	0.42	0.64	0.64	0.42	0.64
67.5	0.85	0.64	0.64	0.64	0.64	0.64	0.64	0.85	0.64
90.0	0.64	0.64	0.42	0.42	0.64	0.64	0.85	0.85	0.85
112.5	0.42	0.21	0.21	0.42	0.64	0.42	0.42	0.42	0.64
135.0	0.64	0.21	0.21	0.21	0.00	0.21	0.21	0.42	0.21
157.5	0.21	0.21	0.00	0.21	0.00	0.42	0.42	0.42	0.42
180.0	0.64	0.21	0.21	0.42	0.00	0.00	0.42	0.42	0.64
202.5	0.42	0.21	0.42	0.21	0.21	0.21	0.42	0.42	0.42
225.0	0.85	0.21	0.42	0.64	0.42	0.42	0.21	0.42	0.42
247.5	1.48	1.27	0.21	1.06	0.85	0.64	0.42	0.42	0.42
270.0	1.91	1.69	1.27	1.27	1.27	1.27	1.27	1.27	1.48
292.5	1.27	0.64	0.85	1.06	0.85	1.27	0.85	0.85	1.27
315.0	1.06	0.64	0.64	0.85	0.85	0.64	0.85	0.85	0.64
337.5	0.64	0.42	0.42	0.64	0.42	0.64	0.85	0.85	0.64
360.0	0.64	0.42	0.64	0.64	0.64	0.85	0.64	0.85	0.64

LL3R-5CCT-4000K

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	0.85	1.06	1.06	1.27	1.69	1.69	1.91	1.91	1.91
22.5	0.85	1.06	1.27	1.27	1.48	1.48	1.91	1.91	1.91
45.0	0.85	0.85	1.06	1.27	1.48	1.48	1.91	1.69	1.69
67.5	1.06	1.27	1.06	1.27	1.27	1.48	1.69	1.91	1.91
90.0	0.85	1.06	1.27	1.48	1.48	1.69	1.69	1.91	2.12
112.5	0.85	0.85	1.06	1.27	1.27	1.48	1.91	1.69	1.91
135.0	0.42	0.64	0.85	1.06	1.27	1.48	1.27	1.48	1.69
157.5	0.64	0.64	0.85	0.85	1.27	1.48	1.91	1.91	1.91
180.0	0.64	0.85	0.85	1.27	1.27	1.48	1.69	1.91	1.69
202.5	0.64	0.85	0.85	1.06	1.27	1.48	1.69	1.69	1.69
225.0	0.42	0.64	0.85	1.27	1.27	1.48	1.48	1.91	1.91
247.5	0.64	0.85	0.85	1.06	1.27	1.48	1.91	1.69	1.69
270.0	1.48	1.69	1.91	1.91	2.33	2.33	2.75	2.75	2.54
292.5	1.27	1.06	1.48	1.48	1.69	1.69	1.91	2.12	1.91
315.0	0.64	1.06	1.06	1.27	1.48	1.48	1.91	1.69	1.91
337.5	0.85	0.85	1.27	1.06	1.48	1.69	1.69	1.91	1.69
360.0	0.85	1.06	1.06	1.27	1.69	1.69	1.91	1.91	1.91
C/γ(°)	180.0								
0.0	2.07								
22.5	2.07								
45.0	2.07								
67.5	2.07								
90.0	2.07								
112.5	2.07								
135.0	2.07								
157.5	2.07								
180.0	2.07								
202.5	2.07								
225.0	2.07								
247.5	2.07								
270.0	2.07								
292.5	2.07								
315.0	2.07								
337.5	2.07								
360.0	2.07								