



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

LumCAT: LD3R-5CCT-2700K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.09

LampCAT:

Current(A): 0.1200

Lamp flux(lm): -1.0

Power (W): 14.28

Number of Lamps: 1

PF: 0.9845

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1232.71, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 86.33

Central intensity(cd): 2024.274, Maximum intensity(cd): 2041.447

Angle of maximum intensity: C=247.5 γ =5.0

Beam Angle(50%Imax): [C0/180]Total=39.8

[C90/270]Total=42.1

Field angle(10%Imax): [C0/180]Total=72.4

[C90/270]Total=74.5

Maximum s/h(1/2): C0_180=0.68 C90_270=0.64

Maximum s/h(1/4): C0_180=0.70 C90_270=0.68

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.41%

Down flux rate of LUM(%): 99.59%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 95.786%

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

Date:
Humidity(%): 59%

Operator: Tester

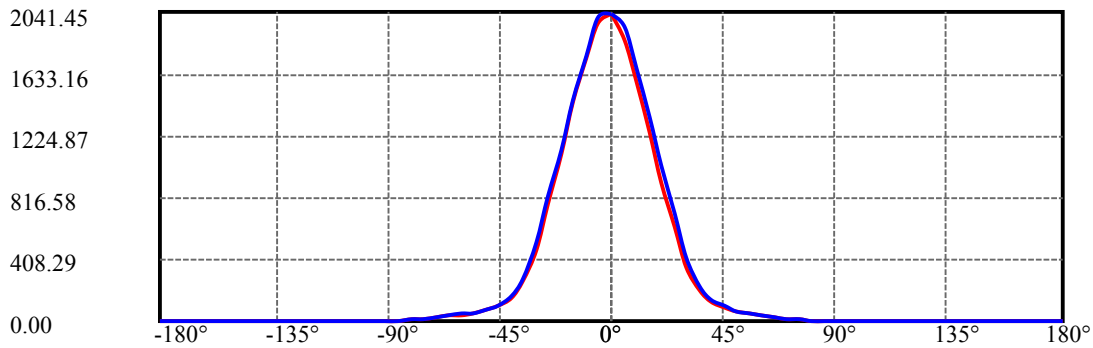
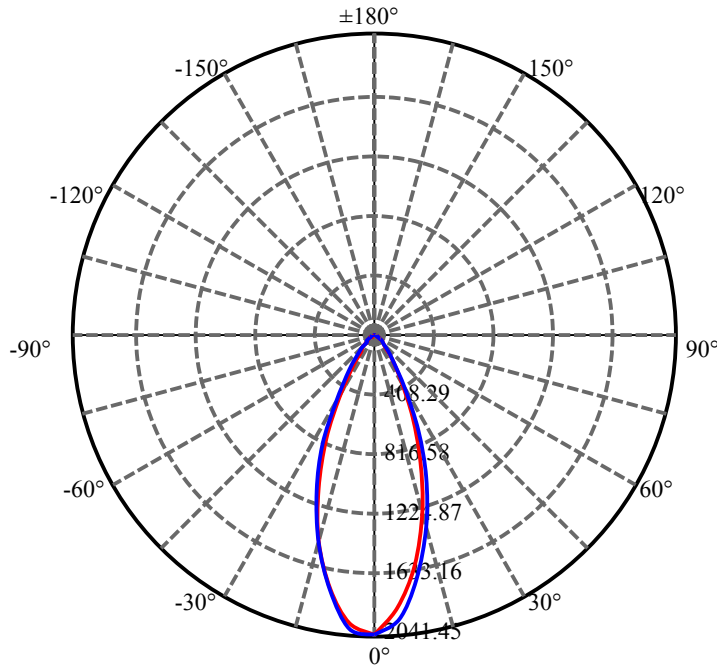
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2024.274	0.000	0	0.00%	0.00%
5.0	1928.252	47.251	47.251	0.00%	3.83%
10.0	1683.591	129.207	176.458	0.00%	14.31%
15.0	1365.653	180.879	357.337	0.00%	28.99%
20.0	1035.437	197.884	555.221	0.00%	45.04%
25.0	726.722	184.818	740.039	0.00%	60.03%
30.0	443.623	148.108	888.147	0.00%	72.05%
35.0	241.830	100.938	989.085	0.00%	80.24%
40.0	142.052	64.048	1053.133	0.00%	85.43%
45.0	98.309	44.505	1097.638	0.00%	89.04%
50.0	69.637	33.936	1131.574	0.00%	91.80%
55.0	53.971	26.876	1158.45	0.00%	93.98%
60.0	42.552	22.311	1180.761	0.00%	95.79%
65.0	30.684	17.804	1198.565	0.00%	97.23%
70.0	19.212	12.634	1211.199	0.00%	98.25%
75.0	11.697	8.079	1219.278	0.00%	98.91%
80.0	6.682	4.918	1224.195	0.00%	99.31%
85.0	2.871	2.596	1226.791	0.00%	99.52%
90.0	0.490	0.920	1227.711	0.00%	99.59%
95.0	0.410	0.246	1227.958	0.00%	99.61%
100.0	0.450	0.234	1228.191	0.00%	99.63%
105.0	0.476	0.248	1228.439	0.00%	99.65%
110.0	0.450	0.242	1228.681	0.00%	99.67%
115.0	0.503	0.241	1228.922	0.00%	99.69%
120.0	0.595	0.267	1229.189	0.00%	99.71%
125.0	0.595	0.275	1229.465	0.00%	99.74%
130.0	0.754	0.293	1229.758	0.00%	99.76%
135.0	0.887	0.332	1230.09	0.00%	99.79%
140.0	0.940	0.338	1230.428	0.00%	99.81%
145.0	1.178	0.353	1230.781	0.00%	99.84%
150.0	1.376	0.376	1231.157	0.00%	99.87%
155.0	1.641	0.382	1231.539	0.00%	99.90%
160.0	1.945	0.376	1231.915	0.00%	99.94%
165.0	2.024	0.327	1232.242	0.00%	99.96%
170.0	2.223	0.252	1232.494	0.00%	99.98%
175.0	2.276	0.161	1232.655	0.00%	100.00%
180.0	2.478	0.057	1232.712	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	888.15	N.A.	72.05%
0-40	1053.13	N.A.	85.43%
0-60	1180.76	N.A.	95.79%
0-90	1227.71	N.A.	99.59%
0-120	1229.19	N.A.	99.71%
0-180	1232.71	N.A.	100.00%
60-90	46.95	N.A.	3.81%
90-120	1.48	N.A.	0.12%
90-130	2.05	N.A.	0.17%
90-150	3.45	N.A.	0.28%
90-180	4.94	N.A.	0.40%
0-34.86	986.17	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	176.46
10-20	378.76
20-30	332.93
30-40	164.99
40-50	78.44
50-60	49.19
60-70	30.44
70-80	13.00
80-90	3.52
90-100	0.48
100-110	0.49
110-120	0.51
120-130	0.57
130-140	0.67
140-150	0.73
150-160	0.76
160-170	0.58
170-180	0.16

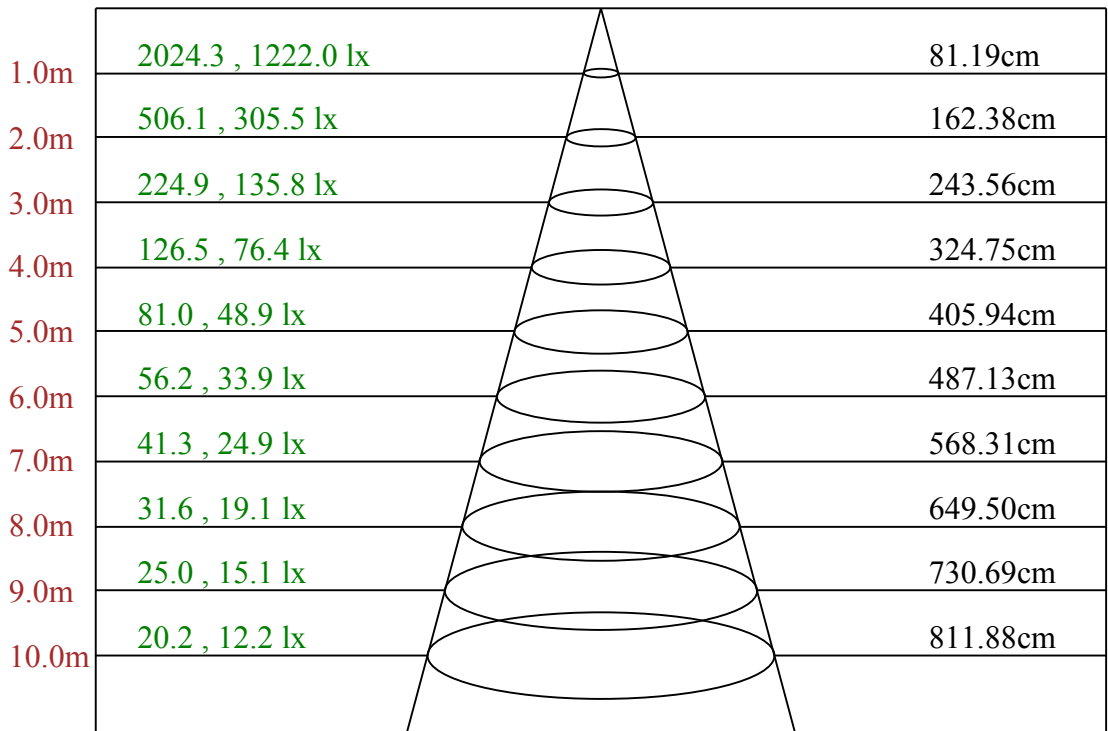


C0/C180: —

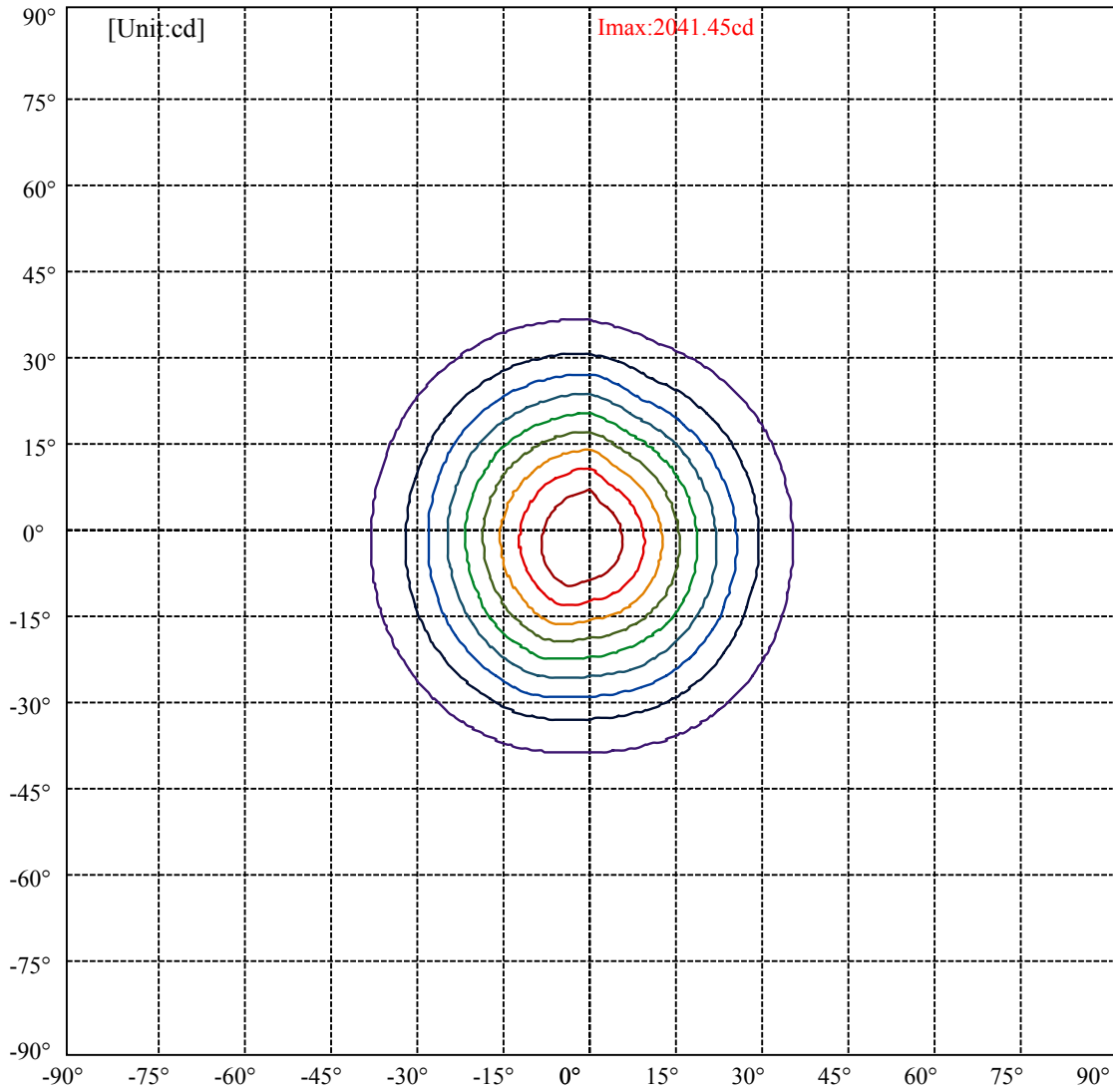
C90/C270: —

Field angle(10%I_{max}):C0/180Left:37.6 Right:34.8
 :C90/270Left:38.3 Right:36.2

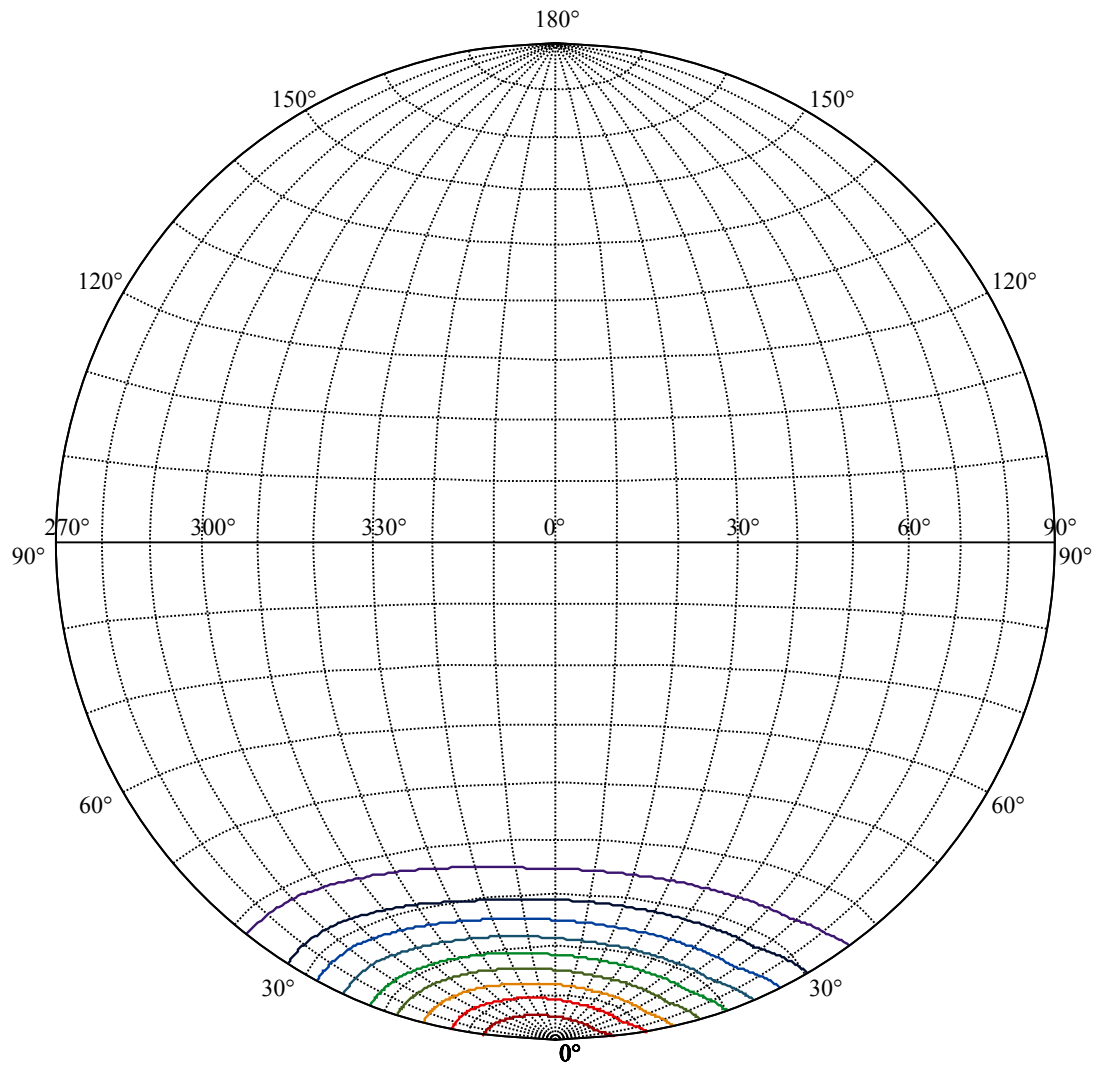
Beam Angle(50%I_{max}):C0/180Left:21.4 Right:18.4
 :C90/270Left:21.9 Right:20.2



Max , Ave Beam angle of C247.5 plane 44.19



(10%Imax) 203.567	—
(20%Imax) 407.134	—
(30%Imax) 610.701	—
(40%Imax) 814.268	—
(50%Imax) 1017.84	—
(60%Imax) 1221.4	—
(70%Imax) 1424.97	—
(80%Imax) 1628.54	—
(90%Imax) 1832.1	—



House

[Unit:cd]

Road

Imax:2041.45

(10%Imax) 204.091	—
(20%Imax) 408.181	—
(30%Imax) 612.272	—
(40%Imax) 816.362	—
(50%Imax) 1020.45	—
(60%Imax) 1224.54	—
(70%Imax) 1428.63	—
(80%Imax) 1632.72	—
(90%Imax) 1836.82	—

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	2024.27	1854.94	1583.32	1240.58	907.99	617.75	357.78	197.31	124.69
22.5	2024.27	1834.61	1537.38	1193.16	867.35	572.87	327.93	182.28	118.98
45.0	2024.27	1834.19	1529.13	1188.50	852.10	553.18	307.18	173.38	115.38
67.5	2024.27	1838.00	1543.31	1206.92	870.52	553.39	310.78	173.38	115.59
90.0	2024.27	1933.69	1670.33	1346.64	1022.74	715.98	421.50	222.92	136.76
112.5	2024.27	1915.91	1658.27	1352.57	1023.37	726.35	437.17	236.05	137.61
135.0	2024.27	1916.33	1688.96	1365.06	1040.73	735.03	446.06	236.90	138.45
157.5	2024.27	1934.11	1705.90	1398.72	1068.46	755.57	447.75	239.86	143.11
180.0	2024.27	1961.42	1742.52	1446.56	1103.39	775.26	474.00	260.61	148.83
202.5	2024.27	1989.58	1791.85	1484.04	1136.21	809.97	525.45	288.76	157.93
225.0	2024.27	2017.10	1825.09	1524.47	1196.97	867.56	561.22	304.22	168.30
247.5	2024.27	2041.45	1859.38	1567.87	1237.83	913.07	601.66	326.02	175.93
270.0	2024.27	1997.20	1755.65	1451.86	1125.83	820.56	522.27	284.32	158.99
292.5	2024.27	1965.23	1734.06	1417.56	1088.57	802.14	511.90	277.97	154.33
315.0	2024.27	1929.03	1682.61	1368.66	1043.27	736.30	454.74	247.27	143.75
337.5	2024.27	1889.23	1629.69	1297.31	981.67	672.58	390.59	218.05	134.22
360.0	2024.27	1854.94	1583.32	1240.58	907.99	617.75	357.78	197.31	124.69
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	89.34	65.20	51.02	40.01	28.37	18.00	11.22	6.14	2.75
22.5	85.74	62.88	49.54	38.95	27.10	16.51	10.59	6.14	2.12
45.0	84.47	61.82	48.69	37.90	26.46	16.09	9.95	5.50	2.12
67.5	83.20	61.82	48.69	37.90	26.04	15.88	9.74	4.87	1.91
90.0	96.96	69.23	53.77	42.55	30.27	18.00	10.80	6.14	2.12
112.5	96.75	68.80	53.77	42.13	29.64	18.00	10.59	5.72	2.12
135.0	97.81	69.44	53.77	42.13	30.49	18.42	10.80	6.14	2.54
157.5	99.08	70.07	54.20	42.98	30.91	19.05	11.43	6.35	2.96
180.0	101.41	71.13	55.47	44.03	31.76	20.32	11.86	6.77	2.96
202.5	105.00	73.46	56.95	45.09	33.24	21.38	12.49	7.41	3.39
225.0	110.93	76.21	58.22	46.58	34.72	22.44	13.13	7.83	3.60
247.5	114.74	79.18	59.49	47.21	35.57	22.86	13.76	8.26	3.81
270.0	107.33	74.10	56.74	45.09	32.81	21.17	13.55	8.05	3.60
292.5	105.43	73.25	56.10	43.82	32.18	20.75	12.91	7.83	3.39
315.0	99.92	70.29	54.62	42.76	31.33	19.69	12.49	7.20	3.39
337.5	94.84	67.32	52.50	41.71	30.06	18.84	11.86	6.56	3.18
360.0	89.34	65.20	51.02	40.01	28.37	18.00	11.22	6.14	2.75
C/ γ (°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.64	0.64	0.42	0.64	0.64	0.64	0.85	0.64	0.85
22.5	0.42	0.42	0.85	0.64	0.42	0.64	0.85	0.85	1.06
45.0	0.64	0.42	0.64	0.42	0.64	0.64	0.64	0.85	0.85
67.5	0.85	0.42	0.64	0.85	0.64	0.85	0.64	0.85	0.85
90.0	0.42	0.42	0.21	0.42	0.42	0.64	0.64	0.42	0.64
112.5	0.00	0.21	0.21	0.21	0.21	0.42	0.42	0.42	0.64
135.0	0.21	0.21	0.42	0.00	0.21	0.21	0.21	0.21	0.42
157.5	0.21	0.21	0.00	0.21	0.21	0.21	0.42	0.42	0.64
180.0	0.21	0.21	0.21	0.42	0.21	0.42	0.42	0.42	0.64
202.5	0.21	0.00	0.00	0.21	0.21	0.21	0.21	0.42	0.64
225.0	0.64	0.00	0.21	0.21	0.21	0.00	0.42	0.42	0.21
247.5	0.64	0.21	0.21	0.42	0.21	0.00	0.21	0.21	0.42
270.0	0.85	1.06	0.85	0.85	1.06	1.06	1.06	1.27	1.27
292.5	0.85	0.85	0.85	0.64	0.85	0.85	0.85	0.85	1.06
315.0	0.42	0.64	0.64	0.64	0.64	0.64	0.85	0.85	0.85
337.5	0.64	0.64	0.85	0.85	0.42	0.64	0.85	0.42	1.06
360.0	0.64	0.64	0.42	0.64	0.64	0.64	0.85	0.64	0.85

LD3R-5CCT-2700K

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	1.06	1.06	1.48	1.48	1.69	2.12	2.12	2.33	2.12
22.5	1.06	1.06	1.27	1.48	1.91	2.12	2.12	2.54	2.33
45.0	0.85	1.06	1.48	1.48	1.91	2.12	2.12	2.12	2.33
67.5	0.85	1.27	1.27	1.48	1.91	2.12	2.12	2.33	2.12
90.0	0.85	0.85	1.27	1.27	1.69	2.12	2.12	2.12	2.54
112.5	0.64	0.85	1.27	1.48	1.69	1.69	1.91	2.33	2.12
135.0	0.42	0.64	1.06	1.27	1.48	1.91	1.91	2.12	2.12
157.5	0.85	0.85	0.85	1.06	1.48	1.91	1.91	2.12	2.12
180.0	0.85	0.85	0.64	1.27	1.69	1.91	2.12	2.12	2.33
202.5	0.64	0.64	1.06	1.27	1.48	1.69	1.91	1.91	2.33
225.0	0.64	0.64	0.85	1.27	1.06	1.48	1.91	2.12	2.12
247.5	0.64	0.64	1.06	1.06	1.27	1.69	1.91	2.12	2.33
270.0	1.48	1.48	1.69	1.91	1.91	2.33	2.33	2.75	2.54
292.5	1.27	1.27	1.27	1.27	1.48	1.91	1.91	2.12	2.33
315.0	1.06	0.85	1.27	1.48	1.69	1.91	2.12	2.12	2.12
337.5	1.06	1.06	1.06	1.48	1.91	2.12	1.91	2.33	2.54
360.0	1.06	1.06	1.48	1.48	1.69	2.12	2.12	2.33	2.12
C/γ(°)	180.0								
0.0	2.48								
22.5	2.48								
45.0	2.48								
67.5	2.48								
90.0	2.48								
112.5	2.48								
135.0	2.48								
157.5	2.48								
180.0	2.48								
202.5	2.48								
225.0	2.48								
247.5	2.48								
270.0	2.48								
292.5	2.48								
315.0	2.48								
337.5	2.48								
360.0	2.48								