
LumCAT: 4-2202-L

Luminaire: TRIDONIC 支架

Report No: NATA0100

Test No: GC2019120307

LampCAT: TRIDONIC SLE G7 17MM

Lamp flux(lm): 1935.0

Number of Lamps: 1

Length(mm): 0

Phm Type: C

Voltage(V): 33.9700

Current(A): 0.4970

Power (W): 16.8800

PF: 1.0000

Ballast type: DC

Width(mm): 0

Height(mm): 0

Photometric Results

Lumens(lm): 1846.27

Efficiency(%): 95.41%

Lumens(lm)/Power(W): 109.38

Central intensity(cd): 8225.297

Maximum intensity(cd): 8225.297

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=23.2

[C90/270]Total=23.2

Field angle(10%Imax): [C0/180]Total=43.5

[C90/270]Total=43.5

Maximum s/h(1/2): C0_180=0.39 C90_270=0.39

Maximum s/h(1/4): C0_180=0.38 C90_270=0.38

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 95.41%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.392%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	8225.297	0.000	0	.000%	.000%
1.0	8179.523	7.849	7.849	.406%	.425%
2.0	8060.344	23.309	31.158	1.205%	1.688%
3.0	7827.398	37.998	69.157	1.964%	3.746%
4.0	7554.797	51.489	120.646	2.661%	6.535%
5.0	7256.602	63.718	184.364	3.293%	9.986%
6.0	6876.141	74.271	258.635	3.838%	14.008%
7.0	6442.383	82.668	341.303	4.272%	18.486%
8.0	6014.180	89.149	430.452	4.607%	23.315%
9.0	5517.844	93.461	523.913	4.830%	28.377%
10.0	4941.281	94.651	618.564	4.892%	33.503%
11.0	4430.813	93.646	712.211	4.840%	38.576%
12.0	3901.359	91.083	803.293	4.707%	43.509%
13.0	3256.383	84.944	888.238	4.390%	48.110%
14.0	2720.109	76.499	964.736	3.953%	52.253%
15.0	2245.992	68.177	1032.913	3.523%	55.946%
16.0	1762.875	58.741	1091.654	3.036%	59.127%
17.0	1407.305	49.368	1141.022	2.551%	61.801%
18.0	1173.825	42.557	1183.58	2.199%	64.106%
19.0	1016.923	38.115	1221.694	1.970%	66.171%
20.0	917.023	35.397	1257.091	1.829%	68.088%
21.0	857.159	34.068	1291.158	1.761%	69.933%
22.0	811.997	33.542	1324.701	1.733%	71.750%
23.0	782.044	33.447	1358.148	1.729%	73.562%
24.0	755.360	33.613	1391.761	1.737%	75.382%
25.0	729.802	33.769	1425.531	1.745%	77.211%
26.0	710.712	34.003	1459.534	1.757%	79.053%
27.0	692.789	34.337	1493.871	1.775%	80.913%
28.0	671.442	34.539	1528.411	1.785%	82.783%
29.0	652.943	34.650	1563.06	1.791%	84.660%
30.0	636.026	34.802	1597.862	1.799%	86.545%
31.0	610.671	34.694	1632.556	1.793%	88.424%
32.0	560.489	33.552	1666.108	1.734%	90.242%
33.0	494.466	31.079	1697.188	1.606%	91.925%
34.0	403.657	27.180	1724.367	1.405%	93.397%
35.0	319.043	22.444	1746.812	1.160%	94.613%
36.0	254.039	18.247	1765.059	.943%	95.601%
37.0	154.751	13.332	1778.391	.689%	96.323%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	91.273	8.212	1786.603	.424%	96.768%
39.0	40.275	4.490	1791.093	.232%	97.011%
40.0	23.548	2.226	1793.319	.115%	97.132%
41.0	20.967	1.585	1794.904	.082%	97.218%
42.0	19.287	1.462	1796.367	.076%	97.297%
43.0	17.634	1.368	1797.735	.071%	97.371%
44.0	16.629	1.293	1799.028	.067%	97.441%
45.0	15.834	1.248	1800.275	.064%	97.509%
46.0	15.096	1.210	1801.485	.063%	97.574%
47.0	14.590	1.181	1802.666	.061%	97.638%
48.0	14.105	1.160	1803.826	.060%	97.701%
49.0	13.648	1.140	1804.965	.059%	97.763%
50.0	13.212	1.120	1806.085	.058%	97.823%
51.0	12.881	1.104	1807.189	.057%	97.883%
52.0	12.466	1.088	1808.277	.056%	97.942%
53.0	12.164	1.071	1809.348	.055%	98.000%
54.0	11.848	1.058	1810.407	.055%	98.057%
55.0	11.559	1.045	1811.451	.054%	98.114%
56.0	11.377	1.036	1812.488	.054%	98.170%
57.0	11.180	1.031	1813.519	.053%	98.226%
58.0	11.004	1.026	1814.545	.053%	98.281%
59.0	10.870	1.023	1815.568	.053%	98.337%
60.0	10.758	1.022	1816.589	.053%	98.392%
61.0	10.624	1.020	1817.61	.053%	98.447%
62.0	10.526	1.019	1818.629	.053%	98.503%
63.0	10.427	1.019	1819.648	.053%	98.558%
64.0	10.287	1.016	1820.664	.053%	98.613%
65.0	10.216	1.015	1821.679	.052%	98.668%
66.0	10.132	1.015	1822.694	.052%	98.723%
67.0	10.027	1.014	1823.708	.052%	98.778%
68.0	9.928	1.011	1824.719	.052%	98.832%
69.0	9.837	1.008	1825.727	.052%	98.887%
70.0	9.745	1.006	1826.733	.052%	98.942%
71.0	9.647	1.002	1827.735	.052%	98.996%
72.0	9.555	0.998	1828.734	.052%	99.050%
73.0	9.457	0.994	1829.728	.051%	99.104%
74.0	9.380	0.990	1830.718	.051%	99.157%
75.0	9.302	0.987	1831.705	.051%	99.211%

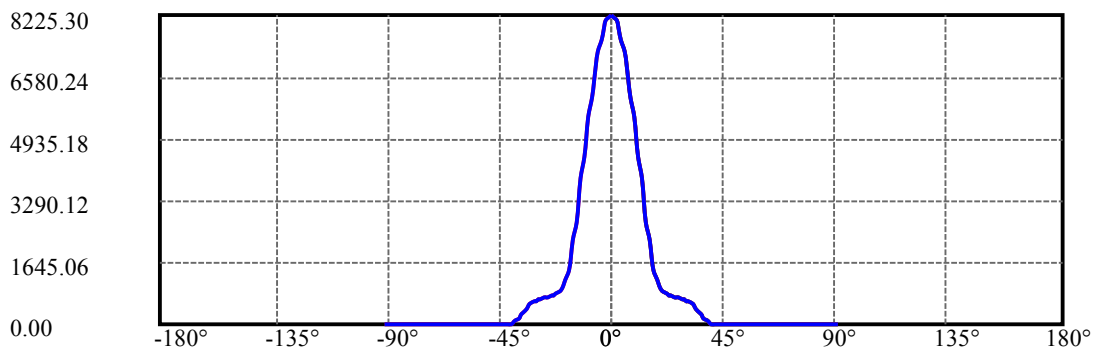
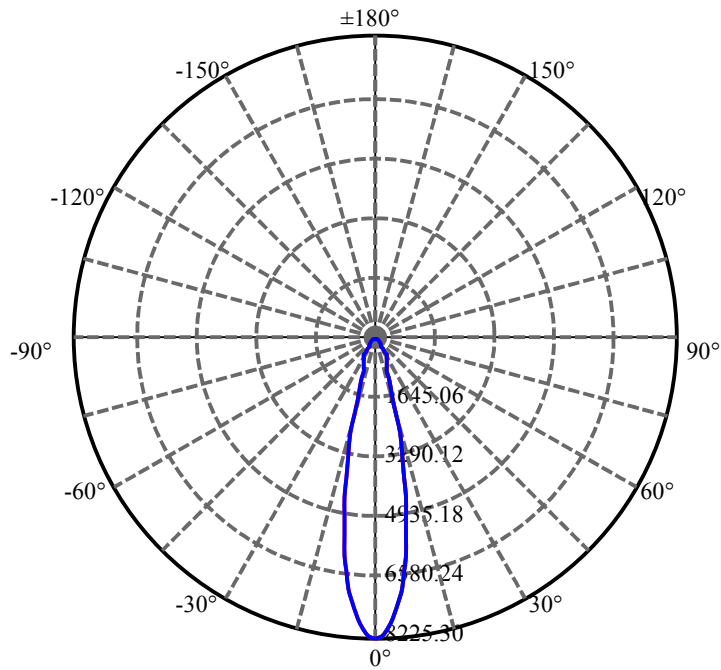
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	9.218	0.983	1832.688	.051%	99.264%
77.0	9.190	0.981	1833.67	.051%	99.317%
78.0	9.141	0.981	1834.651	.051%	99.370%
79.0	9.098	0.980	1835.631	.051%	99.424%
80.0	9.042	0.978	1836.609	.051%	99.476%
81.0	9.007	0.976	1837.585	.050%	99.529%
82.0	8.979	0.975	1838.56	.050%	99.582%
83.0	8.951	0.975	1839.535	.050%	99.635%
84.0	8.902	0.973	1840.508	.050%	99.688%
85.0	8.859	0.969	1841.477	.050%	99.740%
86.0	8.831	0.967	1842.444	.050%	99.793%
87.0	8.775	0.964	1843.408	.050%	99.845%
88.0	8.747	0.960	1844.367	.050%	99.897%
89.0	8.691	0.956	1845.323	.049%	99.948%
90.0	8.663	0.951	1846.275	.049%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1597.86	82.58%	86.55%
0-40	1793.32	92.68%	97.13%
0-60	1816.59	93.88%	98.39%
0-90	1845.32	95.37%	99.95%
0-120	1845.32	95.37%	99.95%
0-180	1846.27	95.41%	100.00%
60-90	29.76	1.54%	1.61%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.51	1477.02	76.33%	80.00%

ZONAL LUMEN SUMMARY

0-10	618.56
10-20	638.53
20-30	340.77
30-40	195.46
40-50	12.77
50-60	10.50
60-70	10.14
70-80	9.88
80-90	8.71
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



C0(Max): —————

C0/C180: —————

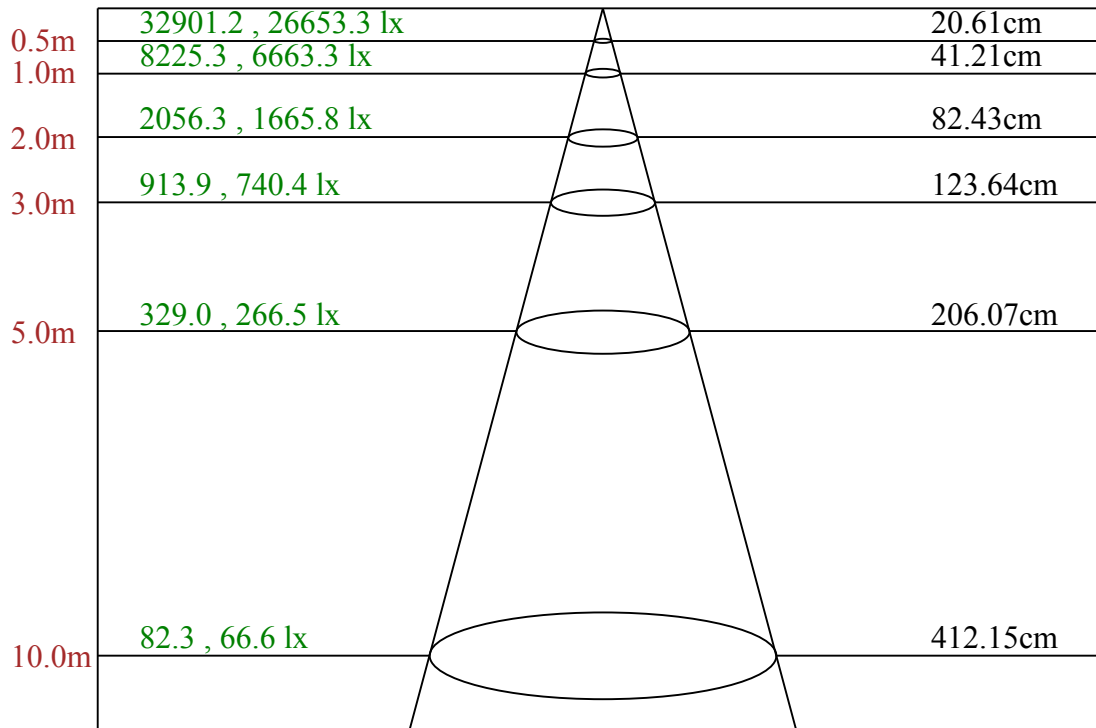
C90/C270: —————

Field angle(10%Imax):C0/180Left:21.8 Right:21.8

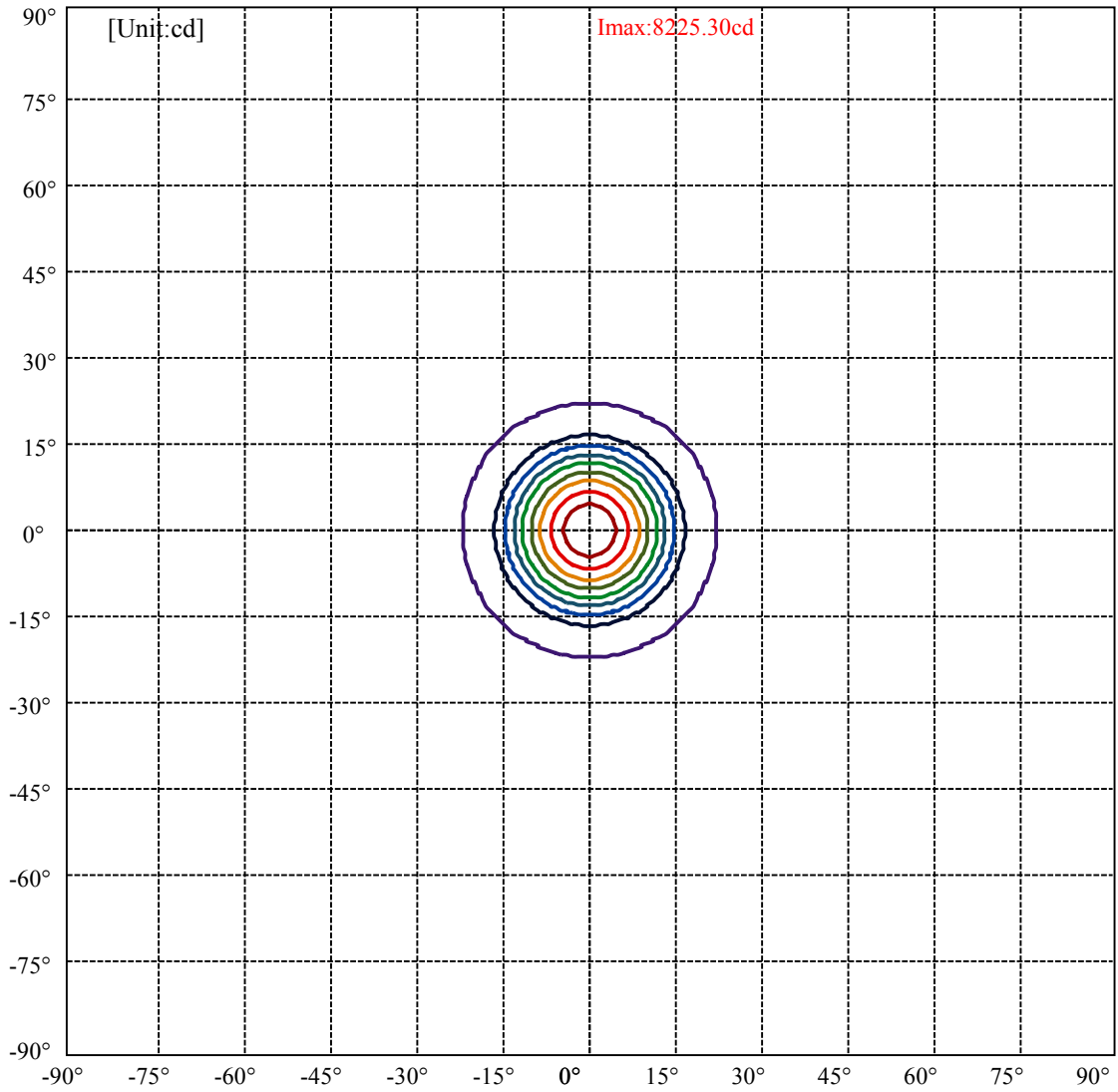
:C90/270Left:21.8 Right:21.8

Beam Angle(50%Imax):C0/180Left:11.6 Right:11.6

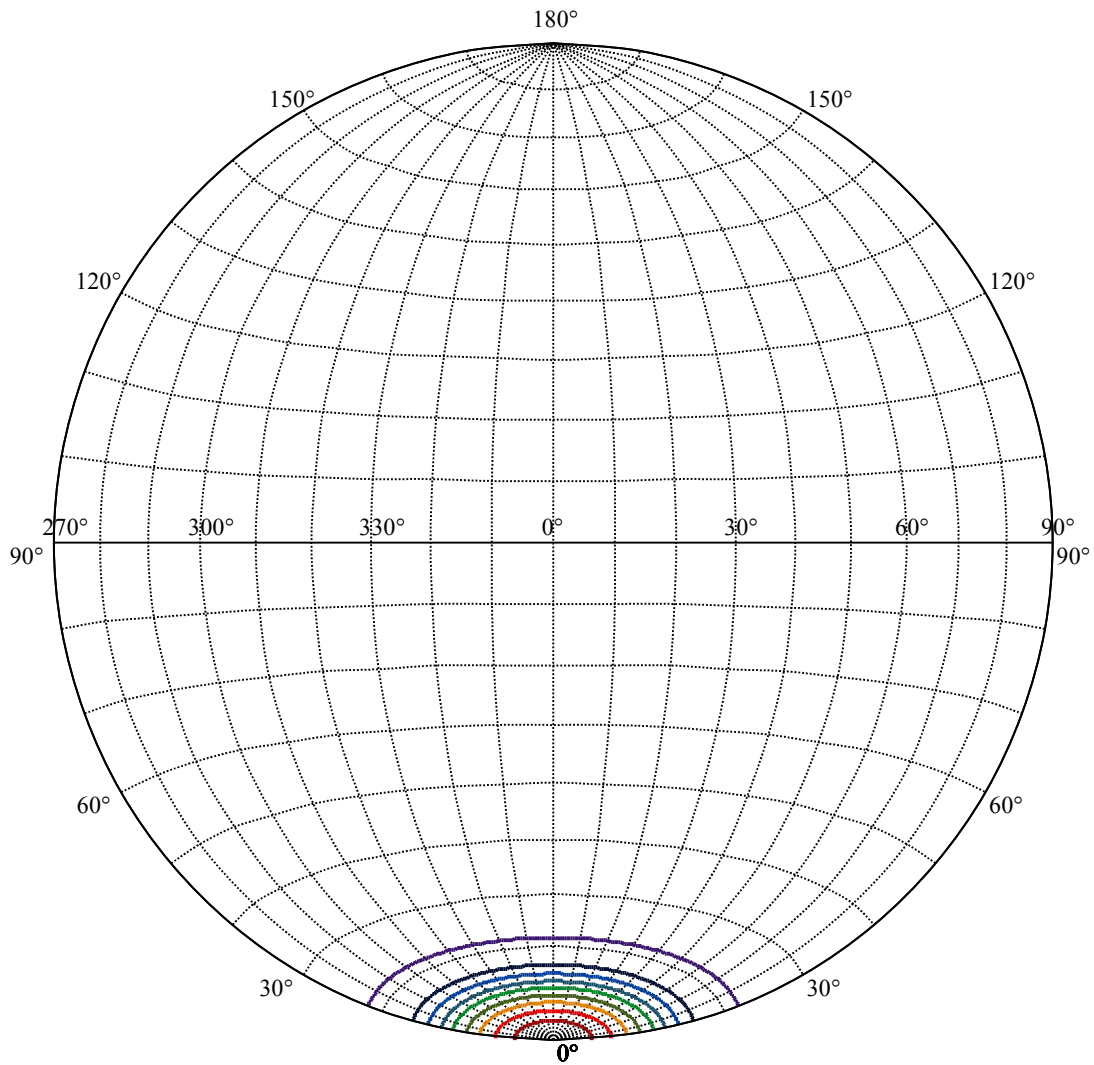
:C90/270Left:11.6 Right:11.6



Max , Ave Beam angle of C0 plane 23.29



(10%Imax) 822.53	—
(20%Imax) 1645.06	—
(30%Imax) 2467.59	—
(40%Imax) 3290.12	—
(50%Imax) 4112.65	—
(60%Imax) 4935.18	—
(70%Imax) 5757.71	—
(80%Imax) 6580.24	—
(90%Imax) 7402.77	—



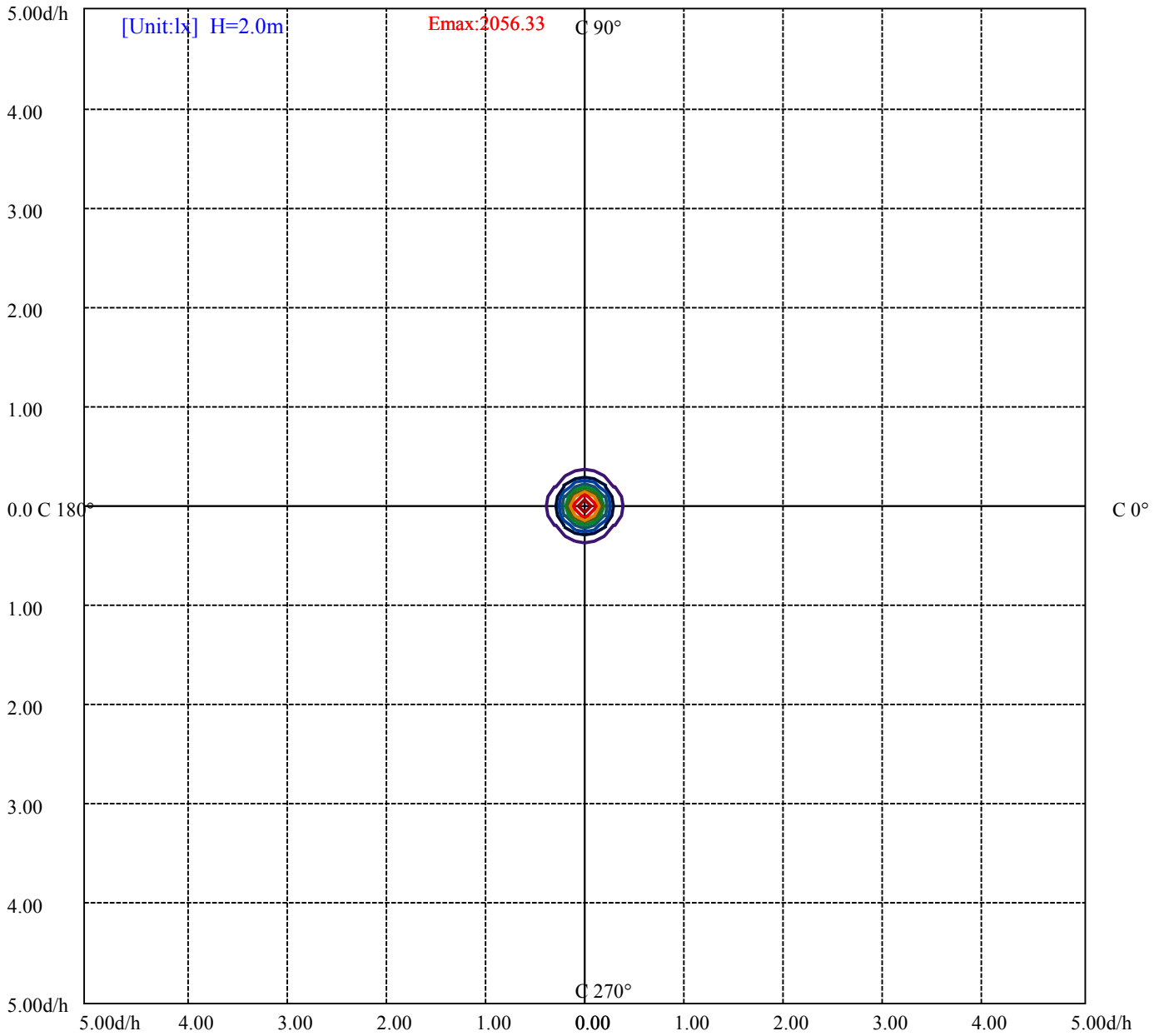
House

[Unit:cd]

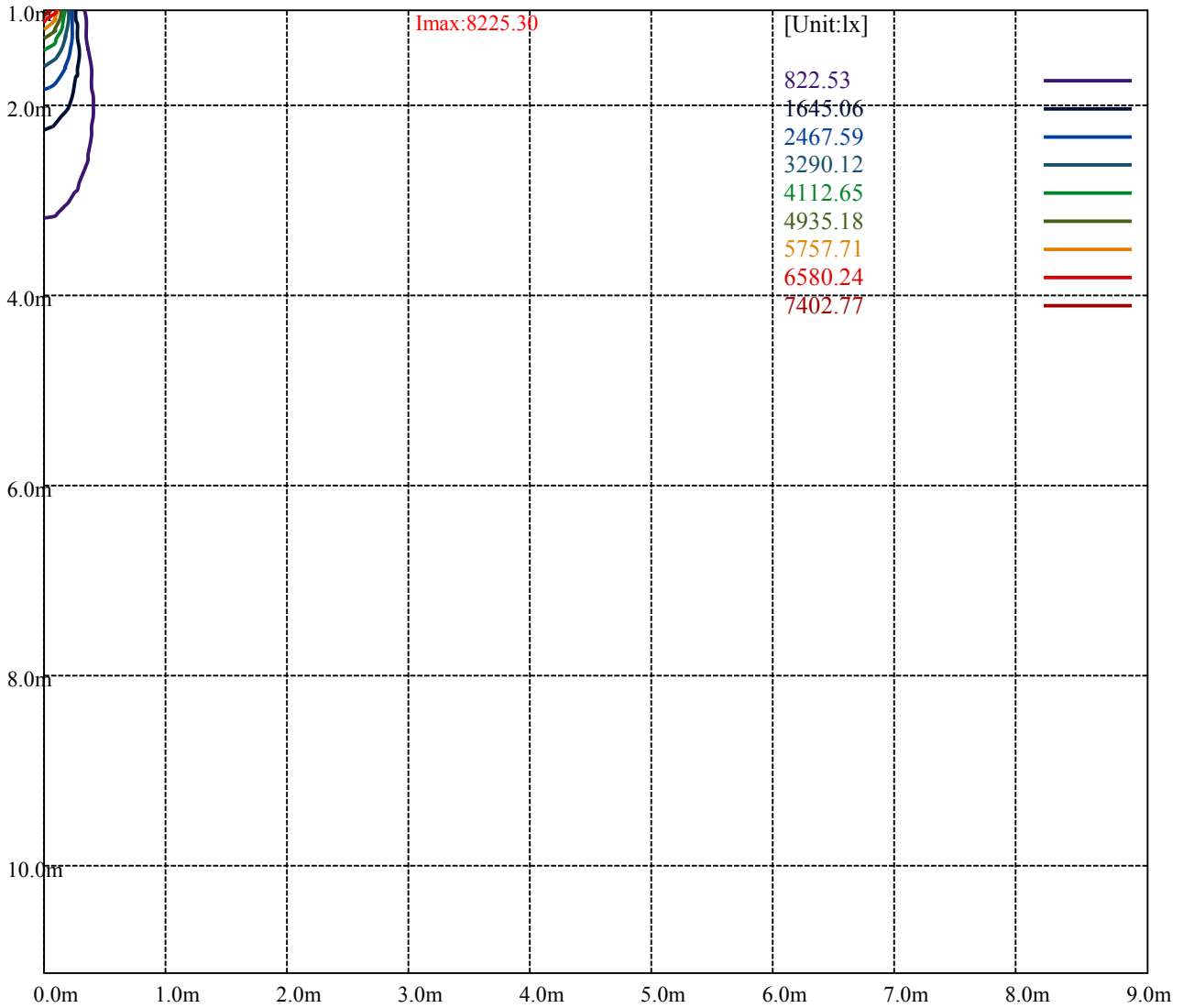
Road

Imax:8225.30

(10%Imax)	822.53	—
(20%Imax)	1645.06	—
(30%Imax)	2467.59	—
(40%Imax)	3290.12	—
(50%Imax)	4112.65	—
(60%Imax)	4935.18	—
(70%Imax)	5757.71	—
(80%Imax)	6580.24	—
(90%Imax)	7402.77	—



(10%Emax) 205.6322	—
(20%Emax) 411.265	—
(30%Emax) 616.8975	—
(40%Emax) 822.53	—
(50%Emax) 1028.162	—
(60%Emax) 1233.792	—
(70%Emax) 1439.425	—
(80%Emax) 1645.057	—
(90%Emax) 1850.69	—



Luminance Table

γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

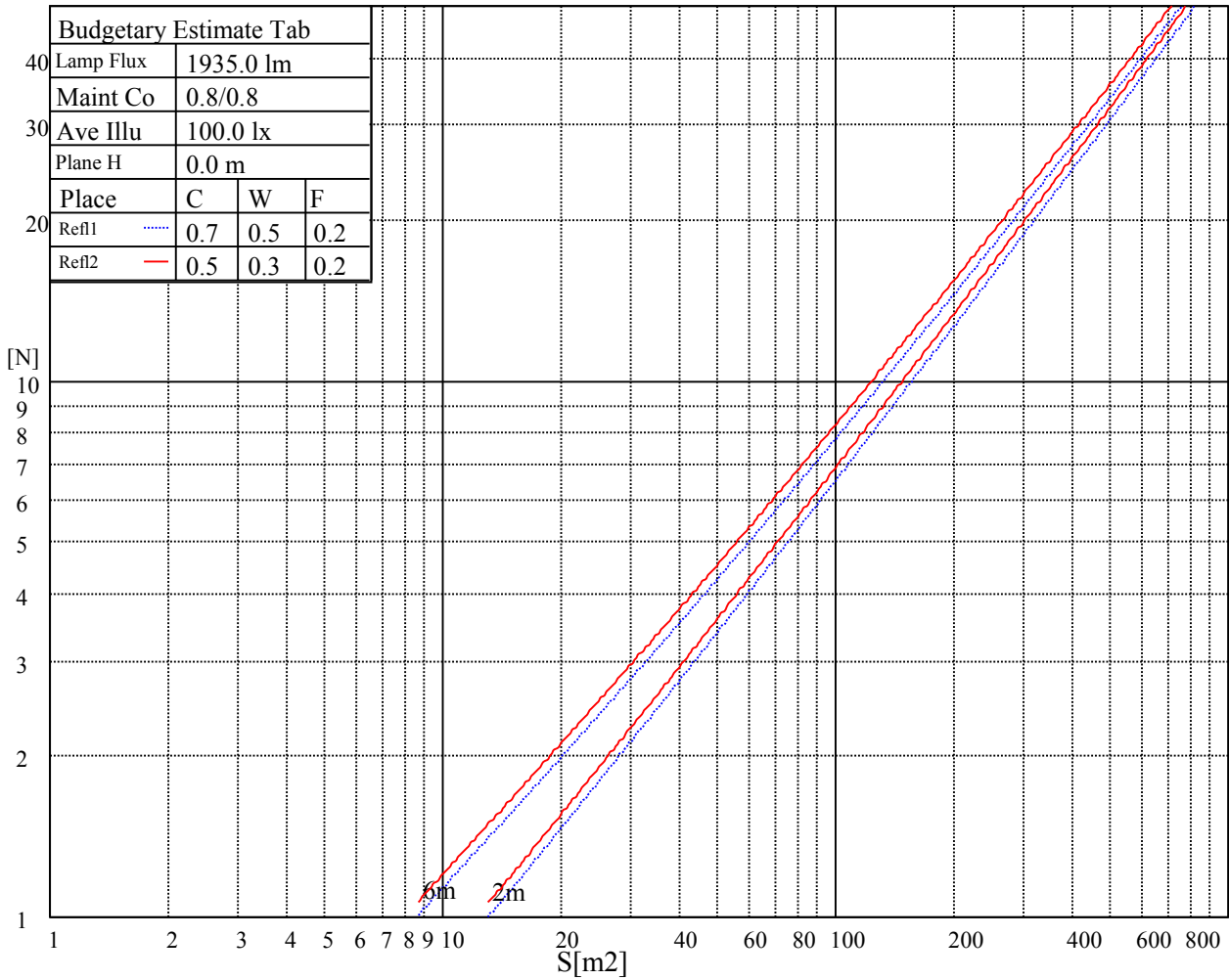
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

Glare Table

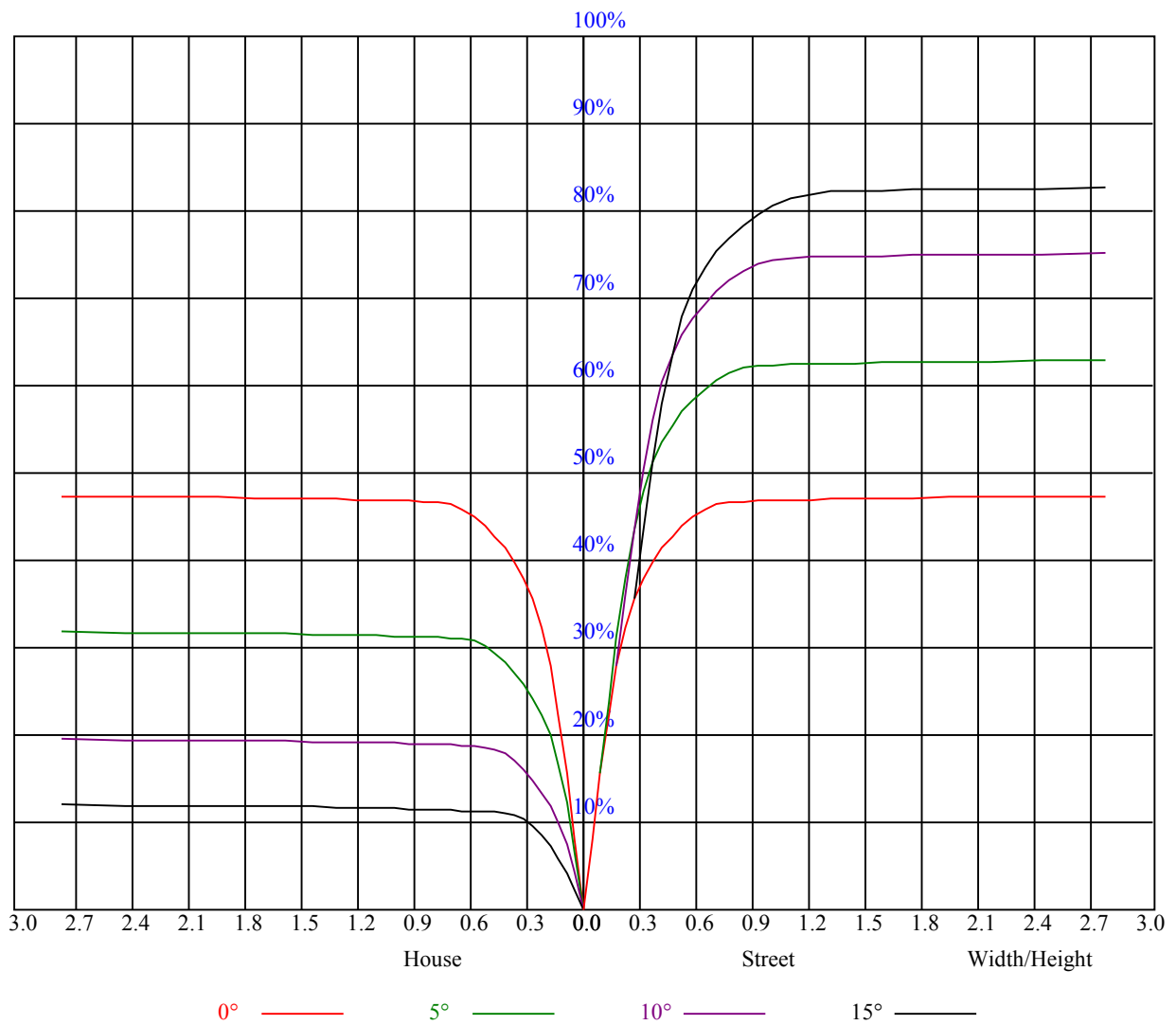
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve





RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFICIENTS OF UTILIZATION RHOFC=20 CU															
0	1.14	1.14	1.14	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	0.97	0.97	0.97	0.95
1	1.07	1.05	1.03	1.05	1.03	1.01	1.01	1.00	0.98	0.97	0.96	0.95	0.94	0.93	0.93	0.91
2	1.01	0.98	0.95	1.00	0.97	0.94	0.97	0.94	0.92	0.94	0.92	0.90	0.91	0.90	0.88	0.87
3	0.96	0.92	0.89	0.95	0.92	0.89	0.93	0.90	0.87	0.90	0.88	0.86	0.88	0.86	0.85	0.83
4	0.92	0.88	0.85	0.91	0.87	0.84	0.89	0.86	0.83	0.87	0.84	0.82	0.86	0.83	0.81	0.80
5	0.88	0.84	0.81	0.87	0.83	0.80	0.86	0.82	0.80	0.84	0.81	0.79	0.83	0.80	0.78	0.77
6	0.85	0.80	0.77	0.84	0.80	0.77	0.83	0.79	0.76	0.81	0.78	0.76	0.80	0.78	0.75	0.74
7	0.82	0.77	0.74	0.81	0.77	0.74	0.80	0.76	0.73	0.79	0.76	0.73	0.78	0.75	0.73	0.72
8	0.79	0.74	0.71	0.78	0.74	0.71	0.77	0.74	0.71	0.76	0.73	0.71	0.76	0.73	0.70	0.69
9	0.76	0.72	0.69	0.76	0.72	0.69	0.75	0.71	0.69	0.74	0.71	0.68	0.73	0.70	0.68	0.67
10	0.74	0.69	0.67	0.73	0.69	0.67	0.73	0.69	0.66	0.72	0.69	0.66	0.71	0.68	0.66	0.65



Intensity data(cd)

C/ γ ($^{\circ}$)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	8209.69	8218.69	8151.19	7992.56	7799.06	7522.31	7041.38	6567.75	6060.38
45.0	8229.38	8222.63	8136.00	7980.75	7745.06	7421.63	7115.06	6576.19	6108.19
90.0	8229.38	8166.94	8021.81	7718.06	7448.63	7163.44	6738.19	6348.94	5911.31
135.0	8232.75	8184.38	8061.19	7799.06	7486.31	7185.94	6795.00	6469.88	6138.00
180.0	8209.69	8107.31	7964.44	7677.00	7319.81	6990.19	6633.00	6267.38	5918.63
225.0	8229.38	8141.06	7996.50	7707.38	7412.06	7103.25	6788.25	6347.81	5948.44
270.0	8229.38	8208.00	8094.38	7900.31	7614.00	7351.31	7010.44	6602.63	6181.31
315.0	8232.75	8187.19	8057.25	7844.06	7613.44	7314.75	6887.81	6358.50	5847.19
360.0	8209.69	8218.69	8151.19	7992.56	7799.06	7522.31	7041.38	6567.75	6060.38
C/ γ ($^{\circ}$)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5416.31	4894.88	4365.00	3767.06	3179.81	2671.31	2200.50	1755.00	1442.25
45.0	5608.69	4953.94	4410.56	3849.19	3196.69	2689.88	2219.63	1727.44	1439.44
90.0	5439.38	4809.94	4296.94	3765.94	3160.13	2574.00	2104.88	1658.81	1233.00
135.0	5648.63	5196.38	4716.00	4192.88	3552.19	3023.44	2508.19	1963.13	1535.06
180.0	5526.56	4971.38	4495.50	3988.13	3312.00	2770.31	2269.13	1773.56	1401.19
225.0	5510.25	4935.38	4437.56	3907.13	3300.75	2708.44	2218.50	1740.94	1412.44
270.0	5664.94	5106.38	4600.13	4141.69	3404.25	2873.25	2434.50	1871.44	1476.56
315.0	5328.00	4662.00	4124.81	3598.88	2945.25	2450.25	2012.63	1612.69	1318.50
360.0	5416.31	4894.88	4365.00	3767.06	3179.81	2671.31	2200.50	1755.00	1442.25
C/ γ ($^{\circ}$)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1233.56	1051.88	941.06	879.19	831.94	801.56	773.44	750.94	733.50
45.0	1213.88	1040.06	923.63	867.94	822.94	790.88	767.25	743.63	726.19
90.0	1107.56	955.46	871.88	811.46	773.10	747.73	725.34	700.37	682.26
135.0	1247.06	1048.50	928.69	867.38	819.00	788.63	760.50	732.38	711.56
180.0	1120.89	1027.97	938.19	869.34	819.96	785.48	750.43	719.55	695.31
225.0	1115.49	1004.85	920.87	859.56	818.66	789.19	763.43	733.50	712.29
270.0	1249.88	1033.31	917.44	863.44	810.00	779.06	753.19	728.44	711.00
315.0	1102.28	973.35	894.43	838.97	800.38	773.83	749.31	729.62	713.59
360.0	1233.56	1051.88	941.06	879.19	831.94	801.56	773.44	750.94	733.50
C/ γ ($^{\circ}$)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	716.63	695.81	678.38	662.63	641.81	609.19	548.44	461.81	366.75
45.0	707.06	688.50	668.81	650.25	627.19	585.00	517.50	419.06	338.06
90.0	666.34	645.41	625.44	608.85	581.51	520.93	452.93	370.13	286.37
135.0	693.56	667.69	649.13	631.13	603.56	555.75	496.69	405.00	320.63
180.0	673.43	648.28	628.59	610.26	576.39	518.06	448.37	355.44	280.35
225.0	693.17	673.43	653.96	637.76	609.13	545.68	472.84	382.44	301.22
270.0	694.13	674.44	657.00	640.69	621.00	579.94	518.63	435.94	345.94
315.0	698.01	677.98	662.23	646.65	624.77	569.36	500.34	399.43	313.03
360.0	716.63	695.81	678.38	662.63	641.81	609.19	548.44	461.81	366.75
C/ γ ($^{\circ}$)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	302.06	188.83	116.94	50.23	21.54	18.68	16.71	15.47	14.74
45.0	287.44	171.23	96.98	46.13	24.81	21.77	19.97	18.34	17.38
90.0	213.58	138.54	80.10	34.71	24.47	21.83	19.80	17.83	16.54
135.0	292.50	162.34	99.11	43.76	23.12	19.97	18.39	16.99	16.09
180.0	206.61	122.40	72.11	30.32	22.95	20.81	19.46	17.38	16.09
225.0	214.48	135.79	75.83	31.44	24.36	22.16	20.70	19.29	18.39
270.0	285.19	179.27	105.47	54.23	27.39	24.47	22.61	20.42	18.96
315.0	230.46	139.61	83.64	31.39	19.74	18.06	16.65	15.36	14.85
360.0	302.06	188.83	116.94	50.23	21.54	18.68	16.71	15.47	14.74

Intensity data(cd)

C/ γ (°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	14.06	13.44	13.05	12.66	12.26	11.93	11.64	11.36	11.14
45.0	16.65	16.03	15.69	15.13	14.57	14.12	13.61	13.22	12.83
90.0	15.41	14.57	14.01	13.67	13.33	13.05	12.88	12.49	12.32
135.0	15.41	14.74	14.40	14.01	13.73	13.22	13.05	12.49	12.21
180.0	15.41	14.79	14.34	13.84	13.28	12.60	12.21	11.81	11.59
225.0	17.72	16.99	16.54	16.14	15.75	15.41	14.96	14.40	13.95
270.0	17.61	16.31	15.13	14.34	13.78	13.33	13.05	12.60	12.21
315.0	14.40	13.89	13.56	13.05	12.49	12.04	11.64	11.36	11.08
360.0	14.06	13.44	13.05	12.66	12.26	11.93	11.64	11.36	11.14
C/ γ (°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	10.91	10.69	10.58	10.41	10.29	10.18	10.07	10.01	9.96
45.0	12.49	12.15	11.93	11.76	11.53	11.36	11.19	11.03	10.91
90.0	11.93	11.70	11.48	11.36	11.19	11.08	11.03	10.86	10.69
135.0	11.93	11.53	11.36	11.03	10.97	10.74	10.63	10.46	10.41
180.0	11.42	11.25	11.14	11.03	10.91	10.91	10.80	10.80	10.80
225.0	13.33	12.83	12.54	12.26	11.87	11.64	11.48	11.19	10.97
270.0	11.93	11.64	11.42	11.14	10.91	10.74	10.63	10.46	10.41
315.0	10.86	10.69	10.58	10.46	10.35	10.29	10.24	10.18	10.07
360.0	10.91	10.69	10.58	10.41	10.29	10.18	10.07	10.01	9.96
C/ γ (°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	9.90	9.84	9.84	9.79	9.79	9.73	9.73	9.68	9.62
45.0	10.80	10.58	10.46	10.29	10.13	10.01	9.90	9.79	9.73
90.0	10.58	10.46	10.35	10.24	10.07	9.96	9.84	9.73	9.62
135.0	10.24	10.07	10.01	9.96	9.90	9.79	9.73	9.62	9.56
180.0	10.74	10.63	10.58	10.46	10.35	10.18	10.01	9.96	9.73
225.0	10.80	10.63	10.52	10.46	10.29	10.18	10.07	9.96	9.90
270.0	10.29	10.18	10.13	10.07	10.01	9.96	9.84	9.79	9.62
315.0	10.07	9.90	9.84	9.79	9.68	9.62	9.56	9.45	9.39
360.0	9.90	9.84	9.84	9.79	9.79	9.73	9.73	9.68	9.62
C/ γ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	9.51	9.39	9.34	9.23	9.11	9.11	9.06	9.00	8.94
45.0	9.62	9.51	9.45	9.45	9.34	9.28	9.23	9.17	9.11
90.0	9.51	9.45	9.34	9.23	9.23	9.23	9.17	9.11	9.06
135.0	9.51	9.45	9.39	9.28	9.17	9.17	9.11	9.06	9.00
180.0	9.62	9.51	9.34	9.28	9.17	9.11	9.11	9.06	9.00
225.0	9.79	9.68	9.56	9.51	9.39	9.28	9.23	9.17	9.11
270.0	9.56	9.45	9.39	9.28	9.23	9.23	9.17	9.17	9.11
315.0	9.34	9.23	9.23	9.17	9.11	9.11	9.06	9.06	9.00
360.0	9.51	9.39	9.34	9.23	9.11	9.11	9.06	9.00	8.94
C/ γ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	8.94	8.89	8.89	8.83	8.83	8.83	8.78	8.78	8.66
45.0	9.06	9.00	9.00	8.89	8.83	8.83	8.78	8.72	8.66
90.0	9.06	9.00	8.94	8.89	8.83	8.78	8.78	8.72	8.66
135.0	8.94	8.94	8.94	8.94	8.89	8.83	8.83	8.78	8.72
180.0	8.94	9.00	8.94	8.89	8.89	8.83	8.78	8.78	8.72
225.0	9.00	9.00	9.00	8.94	8.89	8.89	8.78	8.78	8.72
270.0	9.11	9.06	9.00	8.94	8.89	8.83	8.78	8.72	8.72
315.0	9.00	8.94	8.89	8.89	8.83	8.83	8.72	8.72	8.66
360.0	8.94	8.89	8.89	8.83	8.83	8.83	8.78	8.78	8.66

Intensity data(cd)

C/γ(°)	90.0
0.0	8.66
45.0	8.66
90.0	8.61
135.0	8.66
180.0	8.66
225.0	8.66
270.0	8.72
315.0	8.66
360.0	8.66