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Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

LumCAT: 4-2200-L
Luminaire: TRIDONIC 支架
Report No: NATA0100
Test No: GC2019120306
LampCAT: TRIDONIC SLE G7 17MM
Lamp flux(lm): 1935.0
Number of Lamps: 1
Length(mm): 0
Phm Type: C

Voltage(V):
Current(A):
Power (W): 16.8980
PF:
Ballast type:
Width(mm): 0
Height(mm): 0

Photometric Results

Lumens(lm): 1859.30
Efficiency(%): 96.09%
Lumens(lm)/Power(W): 110.03
Central intensity(cd): 11199.090
Maximum intensity(cd): 11199.090
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=17.0
 [C90/270]Total=17.0
Field angle(10%Imax): [C0/180]Total=37.7
 [C90/270]Total=37.7
Maximum s/h(1/2): C0_180=0.29 C90_270=0.29
Maximum s/h(1/4): C0_180=0.31 C90_270=0.31
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 96.09%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.380%

Equipment: GMS1980
Temperature(°C): 30°

Date: 2019/12/3
Humidity(%): 70%%

Operator:

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	11199.094	0.000	0	.000%	.000%
1.0	11086.524	10.663	10.663	.551%	.574%
2.0	10780.735	31.386	42.049	1.622%	2.262%
3.0	10290.797	50.396	92.445	2.604%	4.972%
4.0	9669.586	66.814	159.259	3.453%	8.566%
5.0	8831.321	79.590	238.849	4.113%	12.846%
6.0	7871.906	87.780	326.629	4.536%	17.567%
7.0	6997.922	92.297	418.926	4.770%	22.531%
8.0	6049.758	93.380	512.306	4.826%	27.554%
9.0	5180.485	91.015	603.321	4.704%	32.449%
10.0	4398.117	86.683	690.003	4.480%	37.111%
11.0	3697.805	80.895	770.898	4.181%	41.462%
12.0	3095.860	74.264	845.163	3.838%	45.456%
13.0	2571.680	67.259	912.422	3.476%	49.074%
14.0	2240.719	61.598	974.02	3.183%	52.387%
15.0	1846.407	56.110	1030.13	2.900%	55.404%
16.0	1601.086	50.515	1080.646	2.611%	58.121%
17.0	1372.346	46.304	1126.95	2.393%	60.612%
18.0	1224.563	42.817	1169.767	2.213%	62.915%
19.0	1102.887	40.493	1210.26	2.093%	65.092%
20.0	1015.299	38.769	1249.029	2.004%	67.178%
21.0	938.321	37.513	1286.542	1.939%	69.195%
22.0	884.468	36.630	1323.172	1.893%	71.165%
23.0	840.228	36.189	1359.361	1.870%	73.112%
24.0	794.799	35.748	1395.108	1.847%	75.034%
25.0	764.614	35.458	1430.566	1.832%	76.941%
26.0	738.732	35.487	1466.053	1.834%	78.850%
27.0	712.990	35.517	1501.569	1.835%	80.760%
28.0	688.036	35.471	1537.04	1.833%	82.668%
29.0	666.506	35.439	1572.479	1.831%	84.574%
30.0	641.616	35.319	1607.798	1.825%	86.473%
31.0	611.213	34.864	1642.663	1.802%	88.349%
32.0	559.934	33.552	1676.215	1.734%	90.153%
33.0	489.572	30.919	1707.133	1.598%	91.816%
34.0	414.844	27.370	1734.504	1.414%	93.288%
35.0	325.449	22.991	1757.494	1.188%	94.525%
36.0	253.273	18.427	1775.921	.952%	95.516%
37.0	176.112	14.004	1789.925	.724%	96.269%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	100.948	9.248	1799.173	.478%	96.766%
39.0	46.828	5.044	1804.217	.261%	97.038%
40.0	25.861	2.535	1806.752	.131%	97.174%
41.0	19.596	1.619	1808.371	.084%	97.261%
42.0	17.452	1.346	1809.717	.070%	97.333%
43.0	16.172	1.246	1810.962	.064%	97.400%
44.0	15.244	1.186	1812.148	.061%	97.464%
45.0	14.520	1.144	1813.292	.059%	97.526%
46.0	13.971	1.114	1814.406	.058%	97.586%
47.0	13.528	1.094	1815.5	.057%	97.644%
48.0	13.092	1.076	1816.576	.056%	97.702%
49.0	12.790	1.063	1817.639	.055%	97.760%
50.0	12.481	1.054	1818.693	.054%	97.816%
51.0	12.235	1.046	1819.738	.054%	97.872%
52.0	12.024	1.041	1820.779	.054%	97.928%
53.0	11.834	1.038	1821.817	.054%	97.984%
54.0	11.693	1.037	1822.854	.054%	98.040%
55.0	11.581	1.039	1823.893	.054%	98.096%
56.0	11.496	1.043	1824.936	.054%	98.152%
57.0	11.426	1.048	1825.984	.054%	98.208%
58.0	11.398	1.055	1827.039	.055%	98.265%
59.0	11.342	1.063	1828.102	.055%	98.322%
60.0	11.278	1.069	1829.171	.055%	98.380%
61.0	11.187	1.072	1830.243	.055%	98.437%
62.0	11.088	1.073	1831.316	.055%	98.495%
63.0	10.955	1.072	1832.388	.055%	98.553%
64.0	10.786	1.067	1833.455	.055%	98.610%
65.0	10.617	1.059	1834.514	.055%	98.667%
66.0	10.421	1.050	1835.564	.054%	98.724%
67.0	10.245	1.039	1836.603	.054%	98.779%
68.0	10.062	1.029	1837.632	.053%	98.835%
69.0	9.893	1.018	1838.65	.053%	98.890%
70.0	9.781	1.010	1839.66	.052%	98.944%
71.0	9.668	1.005	1840.665	.052%	98.998%
72.0	9.563	1.000	1841.665	.052%	99.052%
73.0	9.457	0.995	1842.66	.051%	99.105%
74.0	9.359	0.989	1843.649	.051%	99.158%
75.0	9.288	0.985	1844.634	.051%	99.211%

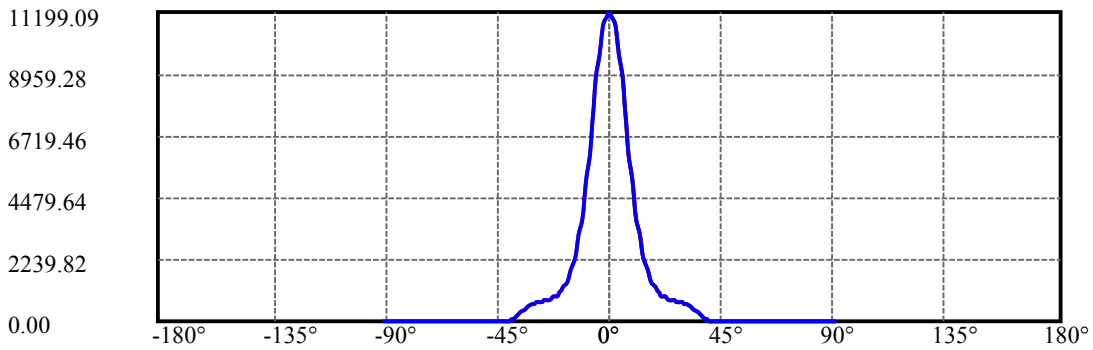
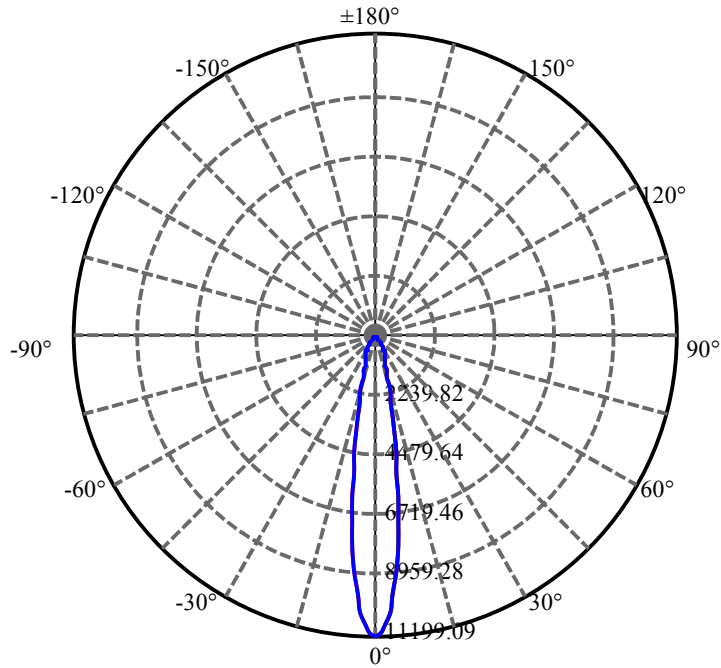
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	9.239	0.984	1845.618	.051%	99.264%
77.0	9.197	0.983	1846.601	.051%	99.317%
78.0	9.176	0.984	1847.584	.051%	99.370%
79.0	9.134	0.984	1848.568	.051%	99.423%
80.0	9.113	0.984	1849.552	.051%	99.476%
81.0	9.063	0.983	1850.535	.051%	99.529%
82.0	9.042	0.982	1851.517	.051%	99.582%
83.0	9.007	0.981	1852.498	.051%	99.634%
84.0	8.993	0.981	1853.478	.051%	99.687%
85.0	8.958	0.980	1854.458	.051%	99.740%
86.0	8.923	0.977	1855.435	.051%	99.792%
87.0	8.867	0.974	1856.409	.050%	99.845%
88.0	8.796	0.968	1857.377	.050%	99.897%
89.0	8.740	0.961	1858.338	.050%	99.948%
90.0	8.740	0.958	1859.296	.050%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1607.80	83.09%	86.47%
0-40	1806.75	93.37%	97.17%
0-60	1829.17	94.53%	98.38%
0-90	1858.34	96.04%	99.95%
0-120	1858.34	96.04%	99.95%
0-180	1859.30	96.09%	100.00%
60-90	30.24	1.56%	1.63%
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%
0-26.60	1487.44	76.87%	80.00%

ZONAL LUMEN SUMMARY

0-10	690.00
10-20	559.03
20-30	358.77
30-40	198.95
40-50	11.94
50-60	10.48
60-70	10.49
70-80	9.89
80-90	8.79
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



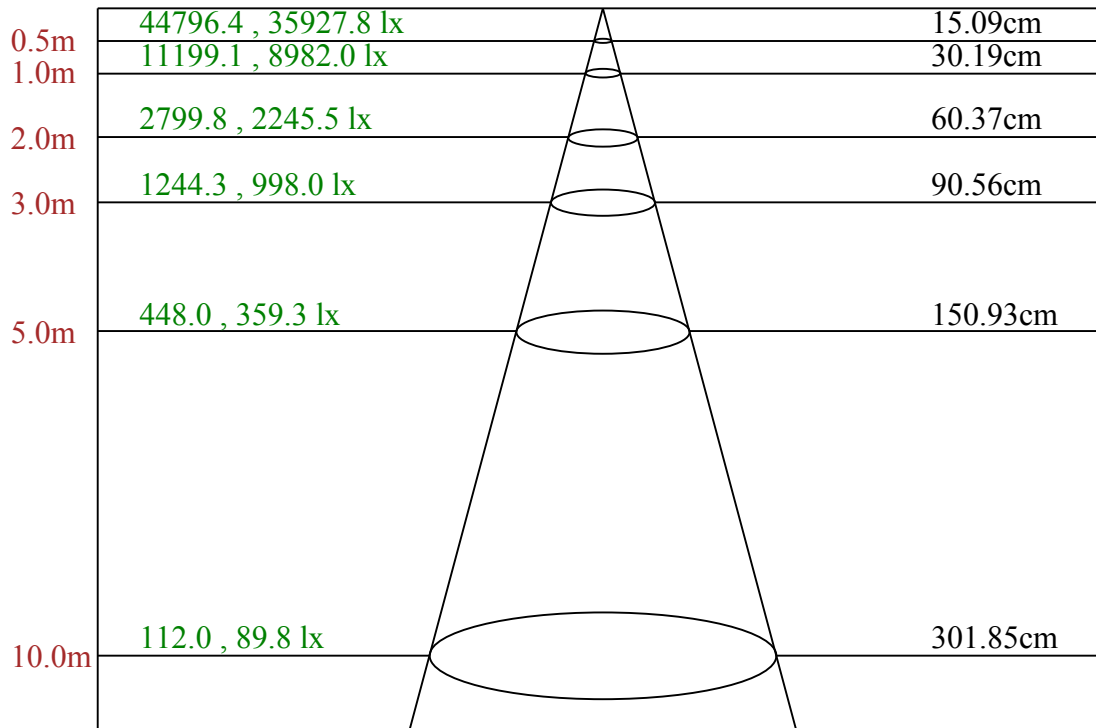
C0(Max): —————

C0/C180: —————

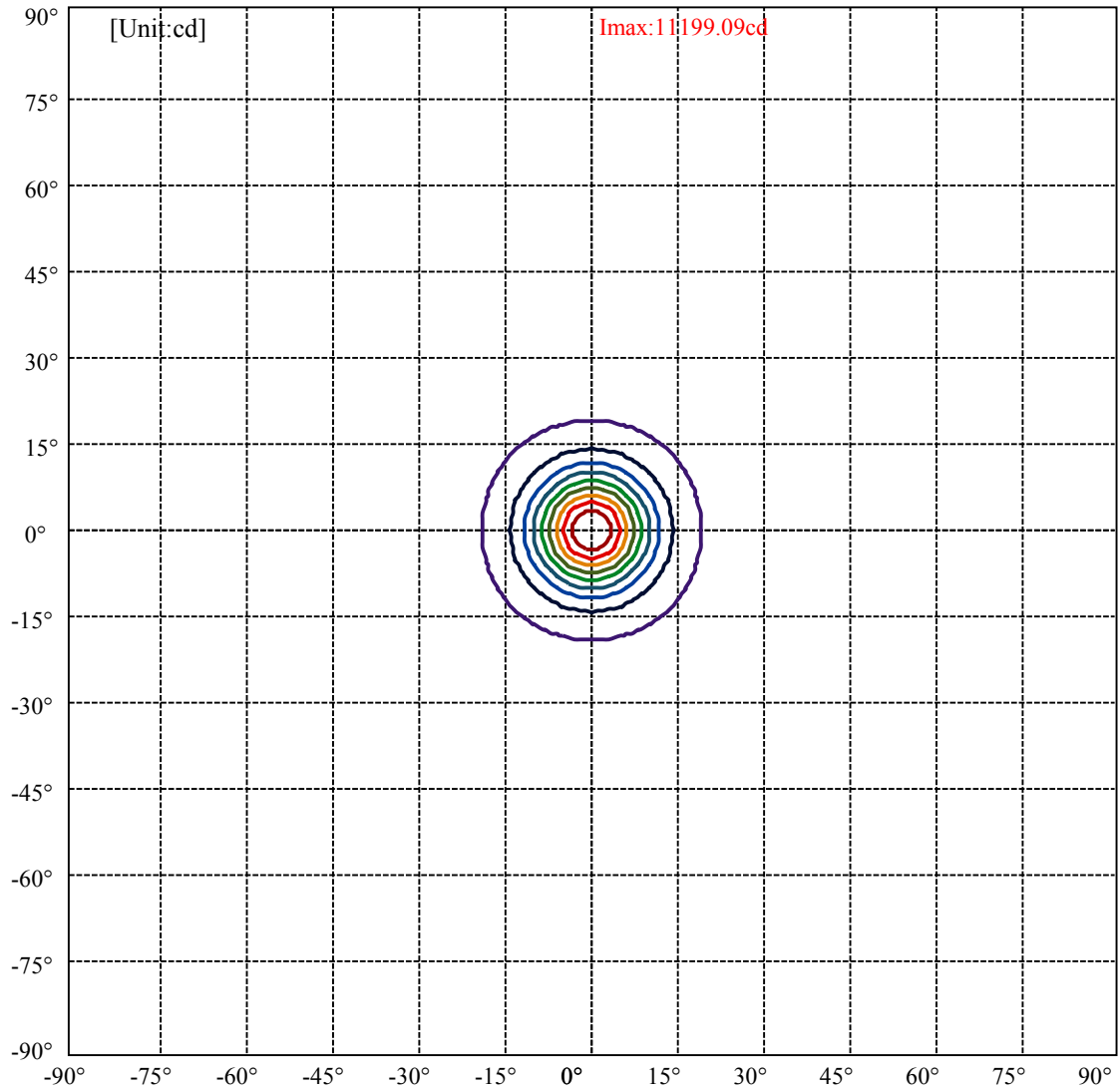
C90/C270: —————

Field angle(10%Imax):C0/180Left:18.9 Right:18.9
:C90/270Left:18.9 Right:18.9

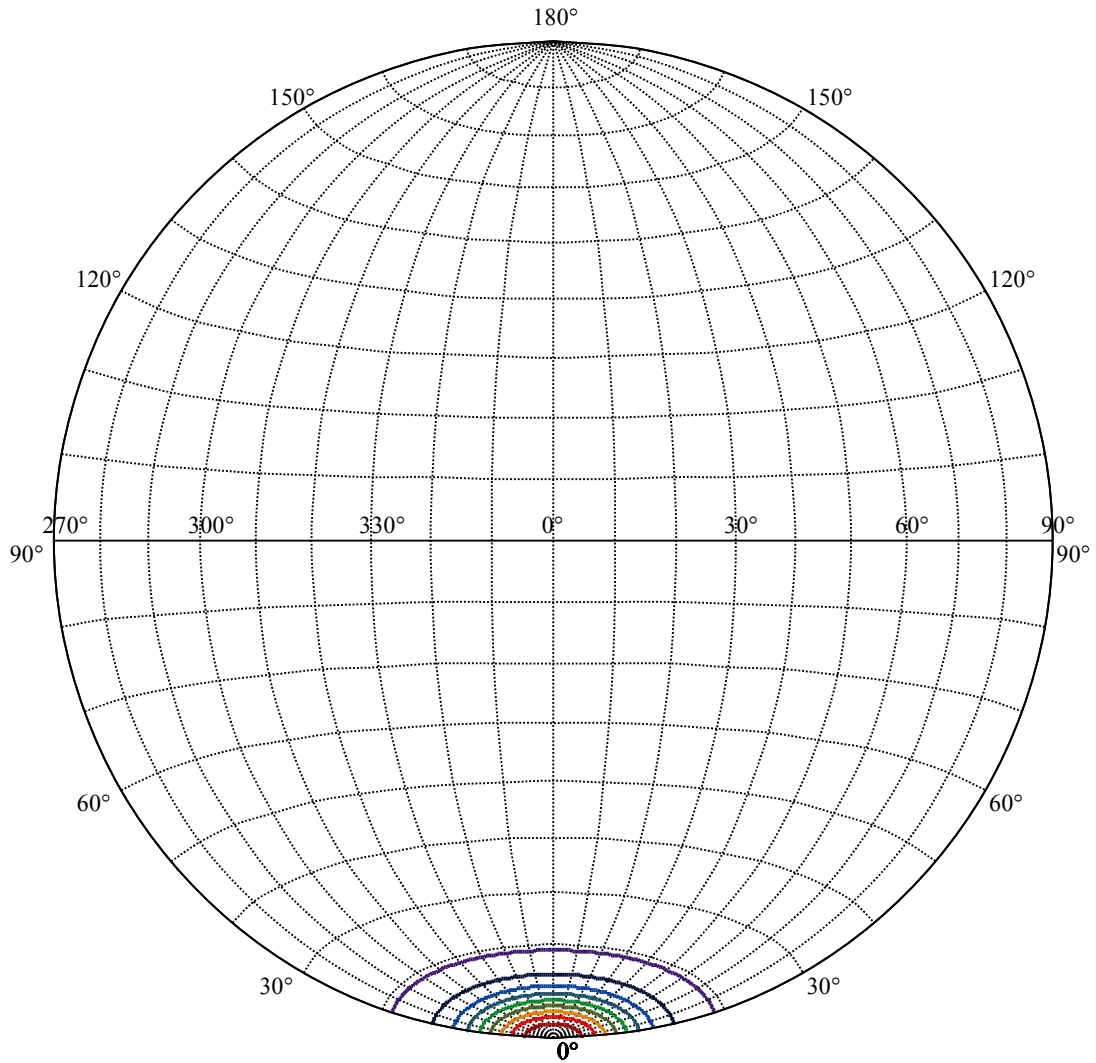
Beam Angle(50%Imax):C0/180Left:8.5 Right:8.5
:C90/270Left:8.5 Right:8.5



Max , Ave Beam angle of C0 plane 17.17



(10%Imax) 1119.91	—
(20%Imax) 2239.82	—
(30%Imax) 3359.73	—
(40%Imax) 4479.64	—
(50%Imax) 5599.55	—
(60%Imax) 6719.46	—
(70%Imax) 7839.37	—
(80%Imax) 8959.28	—
(90%Imax) 10079.2	—



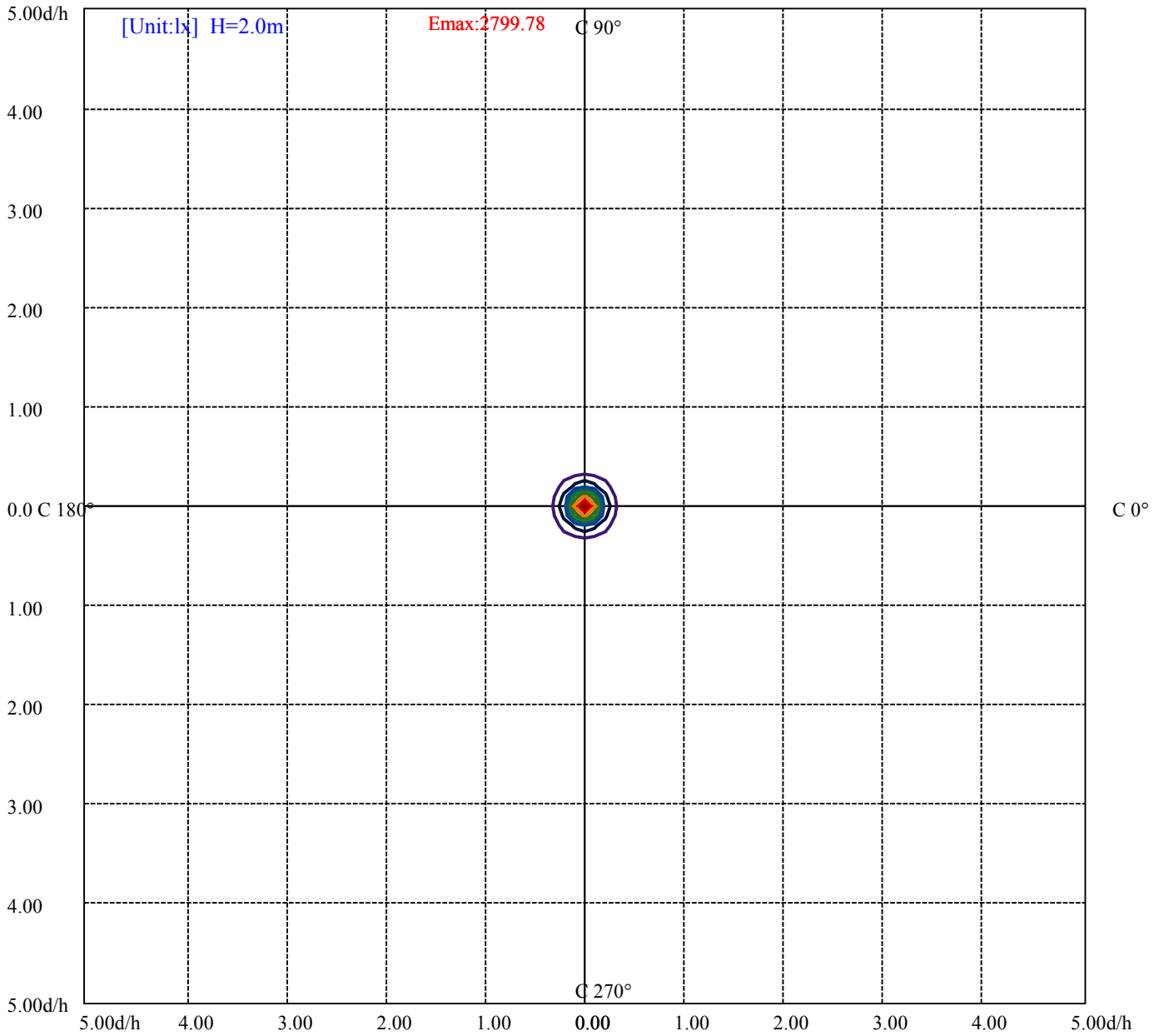
House

[Unit:cd]

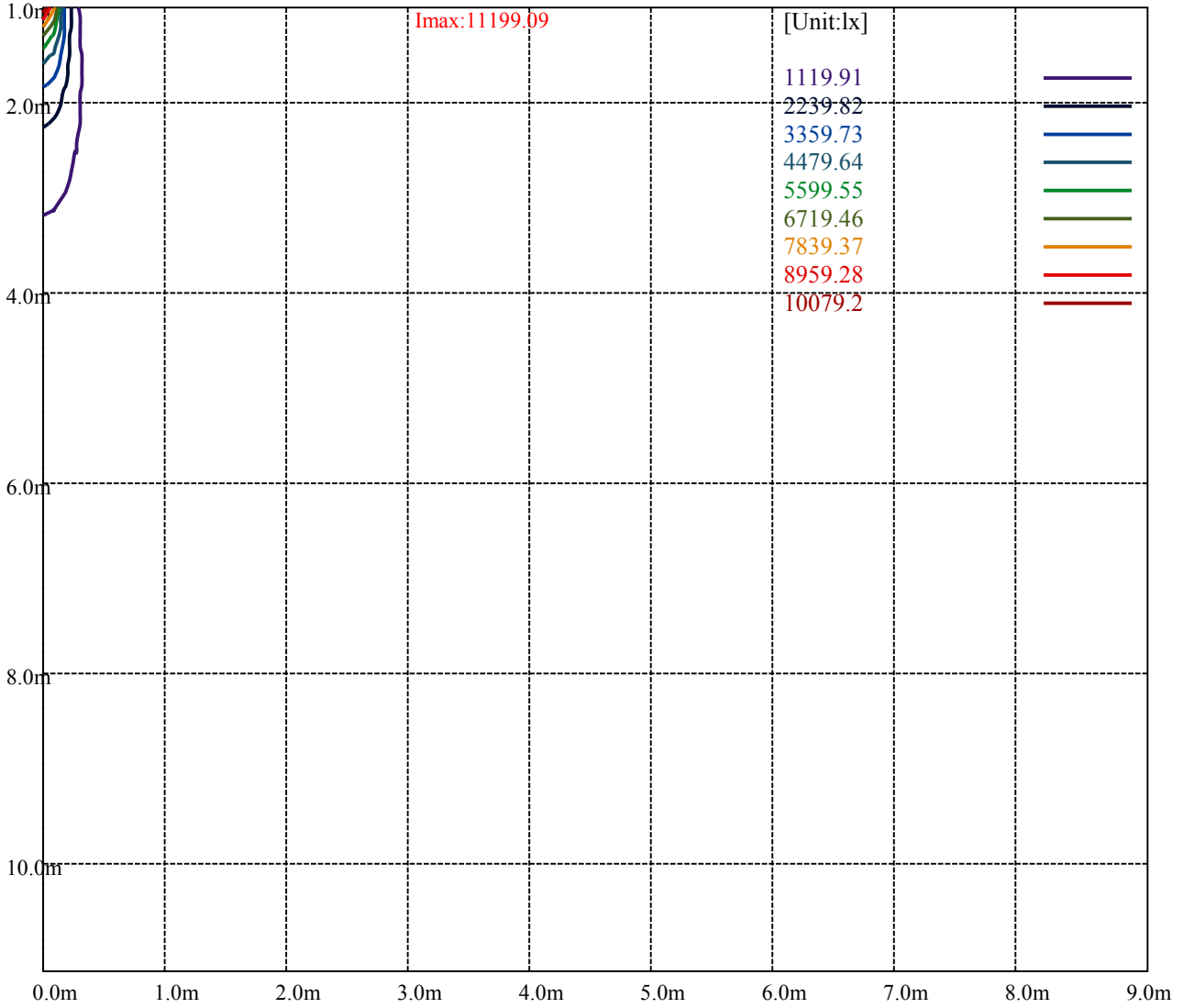
Road

Imax:11199.09

(10%Imax)	1119.91	—
(20%Imax)	2239.82	—
(30%Imax)	3359.73	—
(40%Imax)	4479.64	—
(50%Imax)	5599.55	—
(60%Imax)	6719.46	—
(70%Imax)	7839.37	—
(80%Imax)	8959.28	—
(90%Imax)	10079.2	—



- (10%Emax) 279.9775
- (20%Emax) 559.955
- (30%Emax) 839.93
- (40%Emax) 1119.907
- (50%Emax) 1399.885
- (60%Emax) 1679.863
- (70%Emax) 1959.838
- (80%Emax) 2239.815
- (90%Emax) 2519.8



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

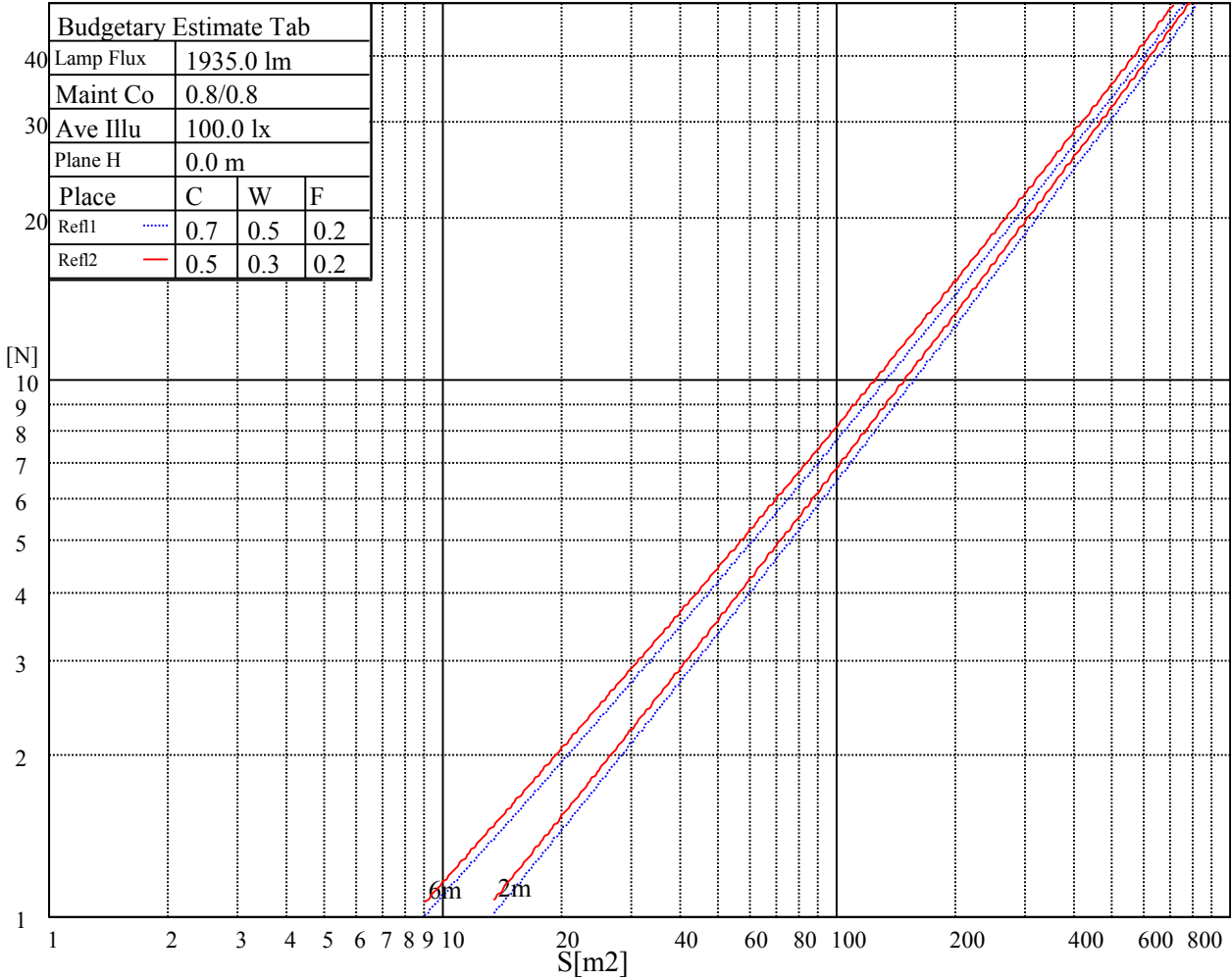
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

Glare Table

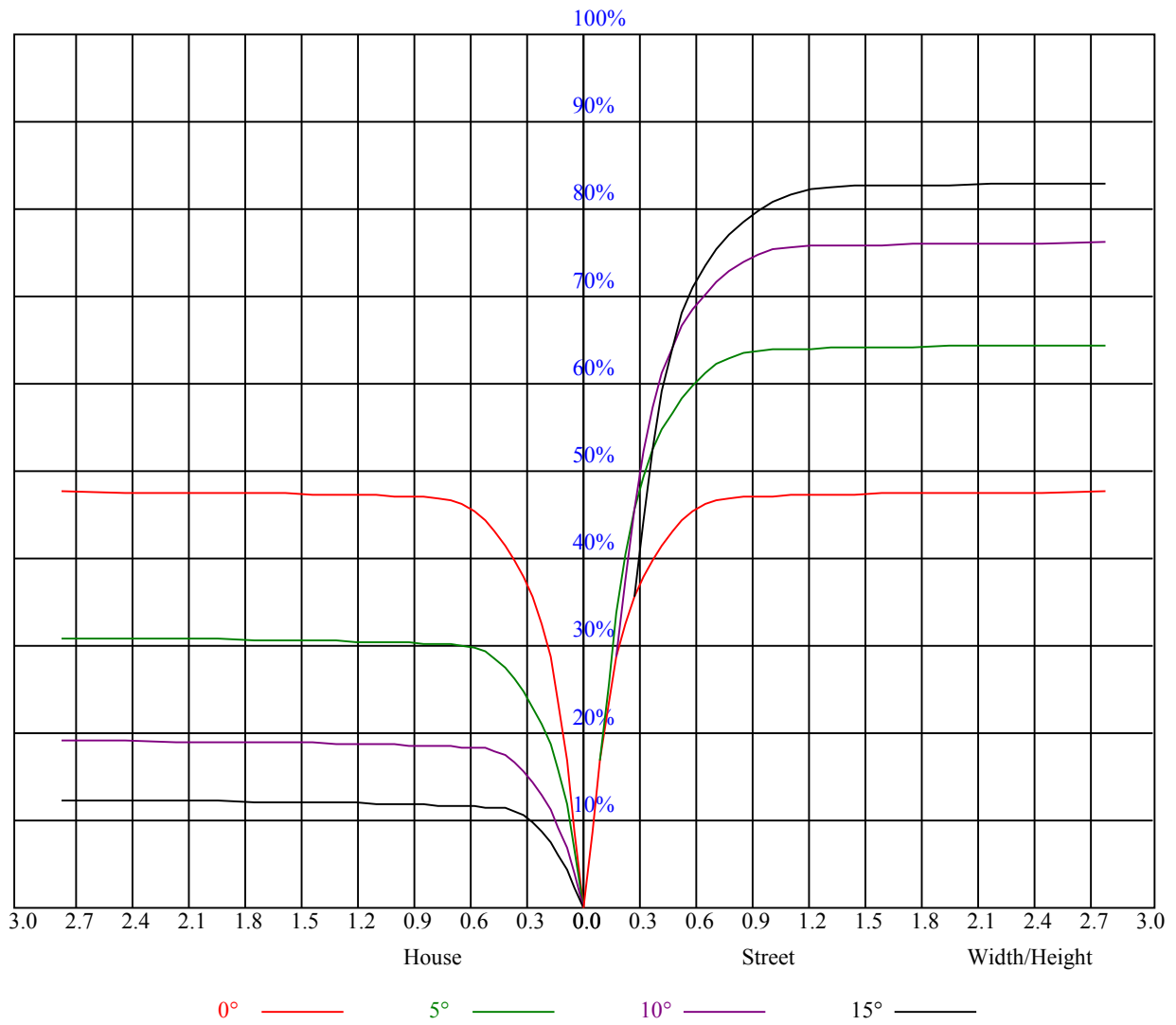
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	1.12	1.12	1.12	1.07	1.07	1.07	1.02	1.02	1.02	0.98	0.98	0.98	0.96
1	1.08	1.06	1.04	1.06	1.04	1.02	1.02	1.00	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92
2	1.02	0.99	0.96	1.00	0.98	0.95	0.97	0.95	0.93	0.95	0.93	0.91	0.92	0.91	0.89	0.88
3	0.97	0.93	0.90	0.96	0.92	0.90	0.94	0.91	0.88	0.91	0.89	0.87	0.89	0.87	0.86	0.84
4	0.93	0.89	0.86	0.92	0.88	0.85	0.90	0.87	0.84	0.88	0.85	0.83	0.86	0.84	0.82	0.81
5	0.89	0.85	0.82	0.88	0.84	0.81	0.87	0.83	0.81	0.85	0.82	0.80	0.84	0.81	0.79	0.78
6	0.86	0.81	0.78	0.85	0.81	0.78	0.84	0.80	0.77	0.82	0.79	0.77	0.81	0.79	0.76	0.75
7	0.83	0.78	0.75	0.82	0.78	0.75	0.81	0.77	0.75	0.80	0.77	0.74	0.79	0.76	0.74	0.73
8	0.80	0.76	0.73	0.79	0.75	0.72	0.78	0.75	0.72	0.78	0.74	0.72	0.77	0.74	0.72	0.71
9	0.77	0.73	0.70	0.77	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.70	0.75	0.72	0.69	0.68
10	0.75	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.68	0.73	0.70	0.67	0.67



Intensity data(cd)

C/γ(°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	11153.25	11210.06	11272.50	11002.50	10569.38	9973.13	9033.75	8195.63	7318.13
45.0	11217.38	11210.63	10968.75	10614.38	10119.38	9410.63	8572.50	7756.88	6828.75
90.0	11181.38	10908.56	10343.25	9729.00	8986.50	7926.19	7023.94	6136.31	5096.81
135.0	11244.38	10957.50	10344.38	9675.00	8870.63	7965.00	6766.88	5816.25	4944.38
180.0	11153.25	10762.31	10233.00	9459.00	8640.00	7629.19	6591.38	5702.63	4780.13
225.0	11217.38	11083.50	10716.19	10156.50	9512.44	8659.13	7746.75	6915.38	6004.69
270.0	11181.38	11225.25	11143.13	10839.38	10350.00	9601.88	8724.38	7886.25	6924.38
315.0	11244.38	11334.38	11224.69	10850.63	10308.38	9485.44	8515.69	7574.06	6500.81
360.0	11153.25	11210.06	11272.50	11002.50	10569.38	9973.13	9033.75	8195.63	7318.13
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	6243.75	5422.50	4646.25	3858.75	3178.13	2851.88	2214.56	1882.13	1596.38
45.0	5934.38	5180.63	4404.38	3763.13	3189.38	2840.63	2324.81	2007.00	1736.44
90.0	4434.75	3679.88	2986.88	2583.56	2155.50	1778.63	1570.50	1379.81	1110.83
135.0	3982.50	3313.13	2947.50	2237.06	1861.88	1627.88	1375.31	1221.19	1110.38
180.0	4045.50	3336.19	2751.19	2325.94	1942.31	1644.75	1440.00	1279.69	1122.19
225.0	5240.81	4451.63	3746.25	3206.81	2696.63	2282.63	1977.75	1726.31	1481.06
270.0	5985.00	5191.88	4353.75	3695.63	3048.75	2857.50	2141.44	1827.00	1553.63
315.0	5577.19	4609.13	3746.25	3096.00	2501.88	2041.88	1726.88	1485.56	1267.88
360.0	6243.75	5422.50	4646.25	3858.75	3178.13	2851.88	2214.56	1882.13	1596.38
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1379.81	1233.00	1107.56	1011.94	946.13	894.38	842.06	808.88	780.19
45.0	1510.88	1347.19	1198.69	1086.75	1008.56	951.75	880.31	837.56	806.63
90.0	1087.09	991.91	919.80	848.53	805.44	769.22	730.01	706.16	687.26
135.0	1001.25	935.44	882.56	835.31	806.06	782.44	756.56	738.00	720.56
180.0	1028.14	954.56	890.10	840.15	804.88	772.31	744.58	722.93	701.04
225.0	1329.19	1111.61	1099.97	998.89	933.47	878.51	822.88	786.09	754.48
270.0	1346.63	1203.75	1064.81	979.31	909.00	851.06	793.13	754.31	722.81
315.0	1113.53	1045.63	958.89	905.68	862.20	822.15	788.85	762.98	736.88
360.0	1379.81	1233.00	1107.56	1011.94	946.13	894.38	842.06	808.88	780.19
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	751.50	726.75	705.94	680.06	657.56	637.88	591.19	525.38	437.06
45.0	769.50	740.25	717.75	685.69	661.50	642.38	579.38	507.94	426.94
90.0	669.71	645.47	624.71	604.52	579.49	522.56	449.04	372.83	285.64
135.0	702.00	681.75	662.63	642.94	615.38	560.81	477.00	397.13	304.88
180.0	683.33	658.97	637.65	612.06	554.18	461.19	379.80	298.97	202.84
225.0	723.04	695.31	669.77	643.05	607.61	536.01	449.83	368.38	279.11
270.0	689.63	663.19	641.25	615.38	584.44	541.69	477.56	410.06	327.94
315.0	715.22	692.61	672.36	649.24	629.55	576.96	512.78	438.08	339.19
360.0	751.50	726.75	705.94	680.06	657.56	637.88	591.19	525.38	437.06
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	343.69	293.63	180.96	103.11	42.19	20.14	16.99	15.47	14.06
45.0	321.19	290.81	159.58	79.20	33.08	21.09	17.72	16.09	15.02
90.0	200.98	133.48	76.28	30.26	23.68	20.93	19.24	18.00	17.16
135.0	285.19	138.83	77.06	26.61	19.29	16.99	15.36	14.68	14.12
180.0	131.79	72.11	27.06	18.45	16.14	14.51	13.56	12.94	12.38
225.0	192.32	123.36	64.46	23.96	19.91	18.00	16.31	15.02	14.18
270.0	290.81	169.88	104.12	44.16	30.43	25.99	23.06	21.26	19.97
315.0	260.21	186.81	118.07	48.88	22.16	19.13	17.38	15.92	15.08
360.0	343.69	293.63	180.96	103.11	42.19	20.14	16.99	15.47	14.06

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	13.39	12.77	12.32	11.93	11.53	11.19	10.97	10.74	10.52
45.0	14.18	13.67	13.28	12.83	12.49	12.04	11.64	11.31	10.97
90.0	16.20	15.47	15.08	14.79	14.63	14.46	14.23	14.06	13.89
135.0	13.78	13.56	13.33	12.99	12.77	12.60	12.49	12.43	12.43
180.0	12.04	11.70	11.36	11.14	10.91	10.69	10.58	10.41	10.29
225.0	13.56	13.11	12.77	12.26	11.93	11.53	11.25	11.03	10.86
270.0	18.73	17.72	16.65	15.69	15.19	14.85	14.57	14.34	14.12
315.0	14.29	13.78	13.44	13.11	12.88	12.49	12.15	11.87	11.59
360.0	13.39	12.77	12.32	11.93	11.53	11.19	10.97	10.74	10.52
C/ γ (°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	10.41	10.24	10.13	10.07	10.07	10.07	10.07	10.07	10.13
45.0	10.69	10.52	10.35	10.18	10.07	10.01	9.96	9.90	9.84
90.0	13.67	13.56	13.44	13.22	13.16	12.99	12.83	12.60	12.32
135.0	12.54	12.60	12.77	12.88	12.99	12.99	13.05	12.99	12.83
180.0	10.24	10.18	10.13	10.13	10.13	10.13	10.13	10.07	10.07
225.0	10.74	10.63	10.52	10.52	10.52	10.46	10.41	10.41	10.29
270.0	13.95	13.84	13.73	13.61	13.50	13.44	13.28	13.05	12.88
315.0	11.31	11.08	10.91	10.80	10.74	10.63	10.52	10.41	10.35
360.0	10.41	10.24	10.13	10.07	10.07	10.07	10.07	10.07	10.13
C/ γ (°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	10.18	10.18	10.18	10.18	10.13	10.07	10.01	9.96	9.84
45.0	9.84	9.79	9.79	9.73	9.73	9.73	9.73	9.62	9.56
90.0	11.98	11.70	11.31	10.97	10.69	10.35	10.13	10.01	9.90
135.0	12.54	12.15	11.81	11.36	10.97	10.52	10.13	9.90	9.68
180.0	10.01	9.96	9.84	9.79	9.73	9.68	9.56	9.51	9.45
225.0	10.24	10.13	10.07	9.90	9.79	9.68	9.51	9.45	9.39
270.0	12.60	12.26	11.93	11.59	11.19	10.86	10.52	10.29	10.07
315.0	10.24	10.13	10.01	9.84	9.73	9.62	9.56	9.51	9.45
360.0	10.18	10.18	10.18	10.18	10.13	10.07	10.01	9.96	9.84
C/ γ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	9.73	9.62	9.45	9.34	9.28	9.23	9.17	9.11	9.11
45.0	9.51	9.39	9.28	9.17	9.11	9.06	9.06	9.00	9.00
90.0	9.73	9.56	9.45	9.39	9.34	9.28	9.28	9.23	9.17
135.0	9.51	9.39	9.28	9.23	9.11	9.11	9.11	9.06	9.06
180.0	9.39	9.34	9.23	9.23	9.17	9.11	9.11	9.11	9.11
225.0	9.34	9.28	9.23	9.17	9.17	9.11	9.06	9.00	9.00
270.0	9.90	9.73	9.62	9.51	9.51	9.45	9.45	9.39	9.34
315.0	9.39	9.34	9.34	9.28	9.23	9.23	9.17	9.17	9.11
360.0	9.73	9.62	9.45	9.34	9.28	9.23	9.17	9.11	9.11
C/ γ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	9.06	9.06	9.00	9.00	9.00	8.94	8.94	8.94	8.83
45.0	8.94	8.94	8.89	8.94	8.89	8.89	8.83	8.83	8.72
90.0	9.11	9.06	9.00	9.00	8.94	8.89	8.83	8.78	8.66
135.0	9.00	9.00	9.00	9.00	8.94	8.94	8.89	8.72	8.72
180.0	9.06	9.06	9.06	9.00	9.00	8.94	8.83	8.72	8.72
225.0	9.00	8.94	8.94	8.89	8.89	8.89	8.83	8.72	8.72
270.0	9.28	9.23	9.17	9.11	9.00	8.94	8.89	8.83	8.78
315.0	9.06	9.06	9.00	9.00	9.00	8.94	8.89	8.83	8.78
360.0	9.06	9.06	9.00	9.00	9.00	8.94	8.94	8.94	8.83

Intensity data(cd)

C/γ(°)	90.0
0.0	8.89
45.0	8.72
90.0	8.72
135.0	8.72
180.0	8.72
225.0	8.66
270.0	8.72
315.0	8.78
360.0	8.89