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NATA

Client:

LumCAT: 2-2639-L

Luminaire: 92.70.412.00

Report No: 20231013-B016

Ballast type: AC

Test No: 20231013-C016

Voltage(V): 34.450

LampCAT: LUMINUS CXM-14-AC40

Current(A): 0.530

Lamp flux(lm): 2320.0

Power (W): 18.258

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2191.92, Efficiency(%): 94.48% , Luminous Efficacy(lm/W): 120.05

Central intensity(cd): 8511.861, Maximum intensity(cd): 8511.861

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=22.0

[C90/270]Total=22.0

Field angle(10%Imax): [C0/180]Total=56.2

[C90/270]Total=56.2

Beam angle of C0 plane : 22.10

Average BeamAngle(IEC 61341):22.10

Maximum s/h(1/2): C0_180=0.37 C90_270=0.37

Maximum s/h(1/4): C0_180=0.41 C90_270=0.41

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 94.48%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.120%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	8511.861	0.000	0	0.00%	0.00%
1.0	8470.485	8.126	8.126	0.35%	0.37%
2.0	8305.323	24.078	32.204	1.04%	1.47%
3.0	8069.033	39.162	71.366	1.69%	3.26%
4.0	7717.537	52.843	124.209	2.28%	5.67%
5.0	7293.805	64.578	188.787	2.78%	8.61%
6.0	6809.461	74.116	262.903	3.19%	11.99%
7.0	6297.925	81.357	344.26	3.51%	15.71%
8.0	5789.710	86.509	430.769	3.73%	19.65%
9.0	5232.991	89.333	520.102	3.85%	23.73%
10.0	4744.565	90.293	610.396	3.89%	27.85%
11.0	4278.349	90.157	700.553	3.89%	31.96%
12.0	3820.851	88.536	789.089	3.82%	36.00%
13.0	3422.859	85.965	875.054	3.71%	39.92%
14.0	3085.756	83.310	958.363	3.59%	43.72%
15.0	2757.301	80.216	1038.579	3.46%	47.38%
16.0	2460.398	76.454	1115.033	3.30%	50.87%
17.0	2232.411	73.080	1188.113	3.15%	54.20%
18.0	2001.240	69.804	1257.917	3.01%	57.39%
19.0	1822.033	66.517	1324.434	2.87%	60.42%
20.0	1661.300	63.755	1388.188	2.75%	63.33%
21.0	1523.331	61.151	1449.34	2.64%	66.12%
22.0	1384.027	58.425	1507.764	2.52%	68.79%
23.0	1254.022	55.353	1563.118	2.39%	71.31%
24.0	1168.943	52.975	1616.092	2.28%	73.73%
25.0	1104.325	51.689	1667.782	2.23%	76.09%
26.0	1022.547	50.205	1717.987	2.16%	78.38%
27.0	937.766	47.959	1765.946	2.07%	80.57%
28.0	855.843	45.410	1811.356	1.96%	82.64%
29.0	770.328	42.545	1853.902	1.83%	84.58%
30.0	689.422	39.413	1893.315	1.70%	86.38%
31.0	602.635	35.956	1929.271	1.55%	88.02%
32.0	518.691	32.125	1961.395	1.38%	89.48%
33.0	440.836	28.268	1989.663	1.22%	90.77%
34.0	369.748	24.531	2014.194	1.06%	91.89%
35.0	304.313	20.934	2035.128	0.90%	92.85%
36.0	255.097	17.812	2052.94	0.77%	93.66%
37.0	220.197	15.501	2068.441	0.67%	94.37%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	166.026	12.892	2081.333	0.56%	94.95%
39.0	114.056	9.560	2090.893	0.41%	95.39%
40.0	88.503	7.065	2097.957	0.30%	95.71%
41.0	68.971	5.608	2103.565	0.24%	95.97%
42.0	54.406	4.482	2108.047	0.19%	96.17%
43.0	45.210	3.690	2111.737	0.16%	96.34%
44.0	38.581	3.163	2114.9	0.14%	96.49%
45.0	33.807	2.782	2117.682	0.12%	96.61%
46.0	30.472	2.514	2120.196	0.11%	96.73%
47.0	28.175	2.333	2122.528	0.10%	96.83%
48.0	26.404	2.206	2124.735	0.10%	96.93%
49.0	25.068	2.114	2126.848	0.09%	97.03%
50.0	24.196	2.054	2128.902	0.09%	97.12%
51.0	23.574	2.021	2130.923	0.09%	97.22%
52.0	23.318	2.012	2132.936	0.09%	97.31%
53.0	23.304	2.028	2134.964	0.09%	97.40%
54.0	23.511	2.063	2137.027	0.09%	97.50%
55.0	23.975	2.120	2139.147	0.09%	97.59%
56.0	24.577	2.194	2141.341	0.09%	97.69%
57.0	25.165	2.274	2143.615	0.10%	97.80%
58.0	25.518	2.344	2145.959	0.10%	97.90%
59.0	25.442	2.382	2148.341	0.10%	98.01%
60.0	24.840	2.375	2150.717	0.10%	98.12%
61.0	23.705	2.317	2153.033	0.10%	98.23%
62.0	22.079	2.206	2155.239	0.10%	98.33%
63.0	20.176	2.055	2157.295	0.09%	98.42%
64.0	18.550	1.900	2159.195	0.08%	98.51%
65.0	17.090	1.764	2160.959	0.08%	98.59%
66.0	15.997	1.651	2162.61	0.07%	98.66%
67.0	15.139	1.566	2164.175	0.07%	98.73%
68.0	14.503	1.502	2165.677	0.06%	98.80%
69.0	14.004	1.454	2167.131	0.06%	98.87%
70.0	13.555	1.415	2168.546	0.06%	98.93%
71.0	13.146	1.380	2169.927	0.06%	99.00%
72.0	12.794	1.349	2171.275	0.06%	99.06%
73.0	12.461	1.321	2172.596	0.06%	99.12%
74.0	12.205	1.297	2173.893	0.06%	99.18%
75.0	11.943	1.276	2175.169	0.05%	99.24%

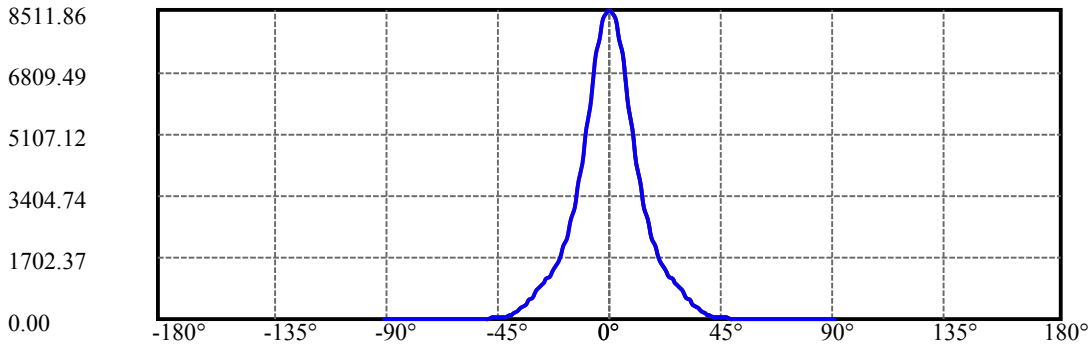
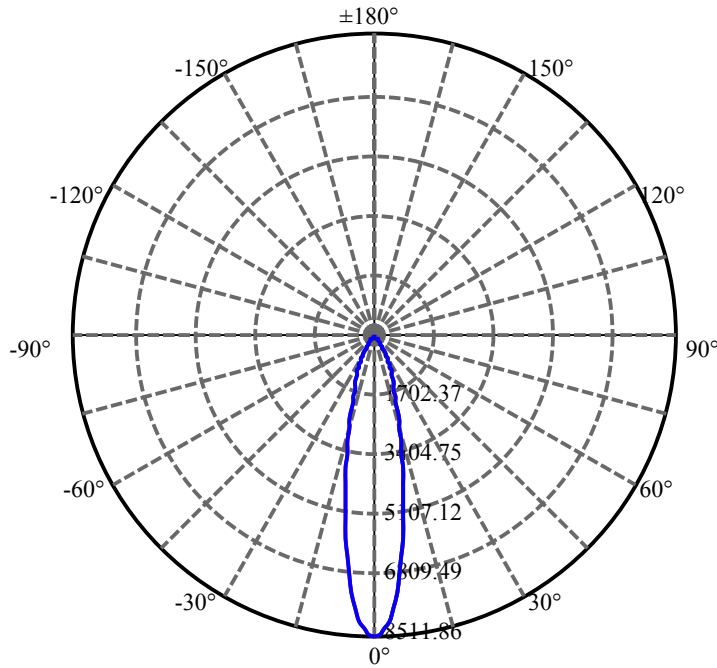
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	11.721	1.256	2176.425	0.05%	99.29%
77.0	11.472	1.237	2177.661	0.05%	99.35%
78.0	11.264	1.217	2178.878	0.05%	99.40%
79.0	11.029	1.198	2180.076	0.05%	99.46%
80.0	10.822	1.178	2181.254	0.05%	99.51%
81.0	10.586	1.158	2182.412	0.05%	99.57%
82.0	10.337	1.135	2183.547	0.05%	99.62%
83.0	10.109	1.111	2184.658	0.05%	99.67%
84.0	9.908	1.090	2185.749	0.05%	99.72%
85.0	9.721	1.071	2186.82	0.05%	99.77%
86.0	9.562	1.054	2187.874	0.05%	99.82%
87.0	9.369	1.036	2188.91	0.04%	99.86%
88.0	9.216	1.018	2189.928	0.04%	99.91%
89.0	9.092	1.004	2190.932	0.04%	99.95%
90.0	9.023	0.993	2191.925	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1893.31	81.61%	86.38%
0-40	2097.96	90.43%	95.71%
0-60	2150.72	92.70%	98.12%
0-90	2190.93	94.44%	99.95%
0-120	2190.93	94.44%	99.95%
0-180	2191.92	94.48%	100.00%
60-90	40.22	1.73%	1.83%
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%
0-26.74	1753.54	75.58%	80.00%

ZONAL LUMEN SUMMARY

0-10	610.40
10-20	777.79
20-30	505.13
30-40	204.64
40-50	30.95
50-60	21.81
60-70	17.83
70-80	12.71
80-90	9.68
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: —————

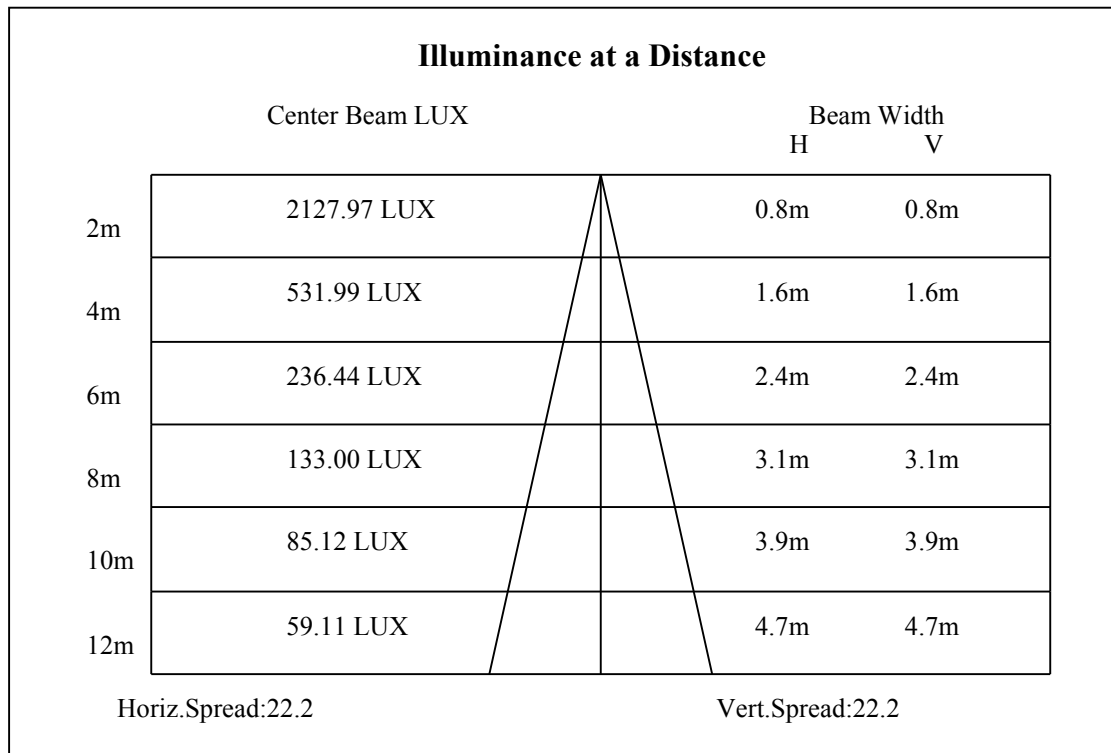
C90/C270: —————

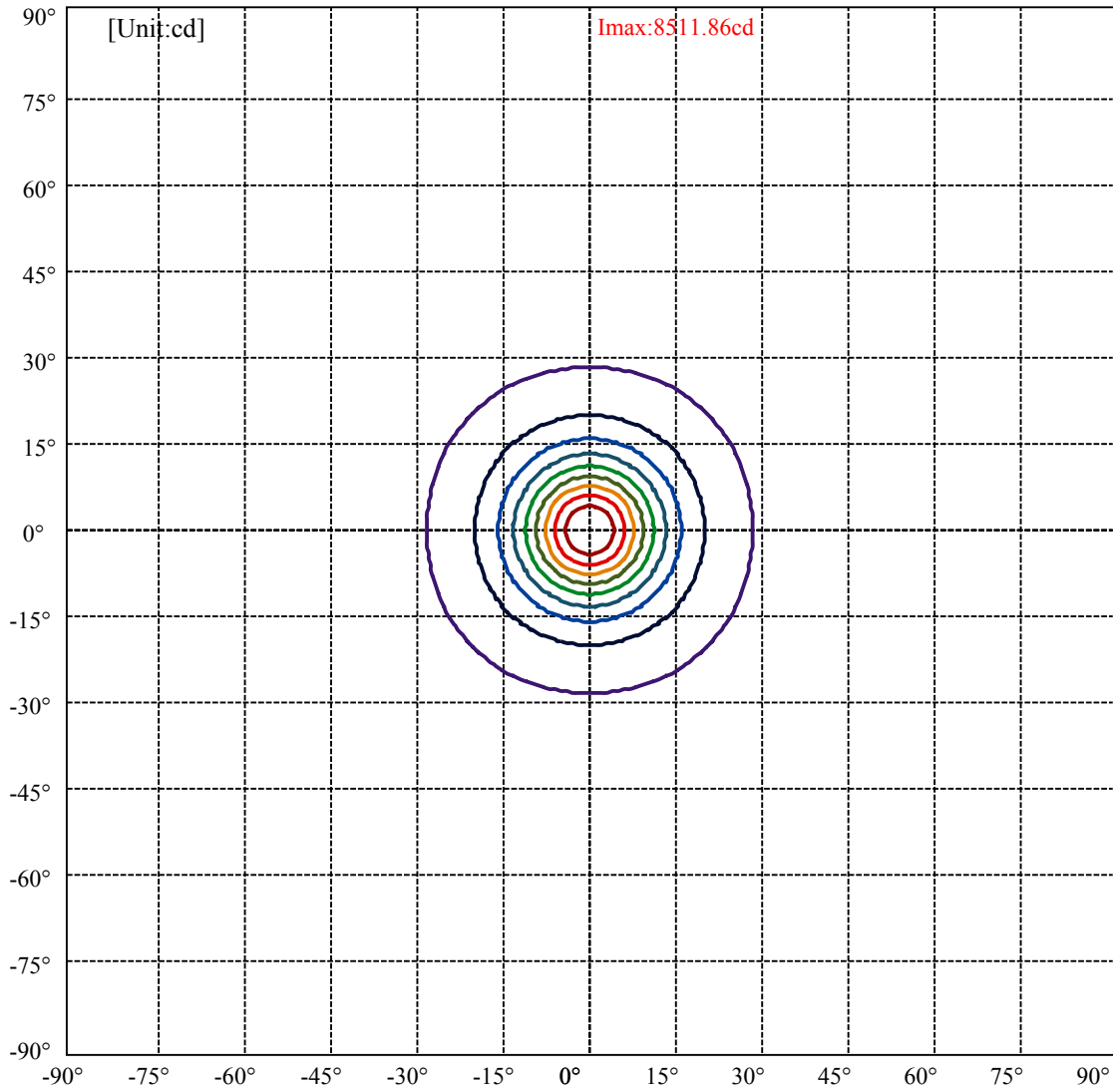
Field angle(10%Imax):C0/180Left:28.1 Right:28.1

:C90/270Left:28.1 Right:28.1

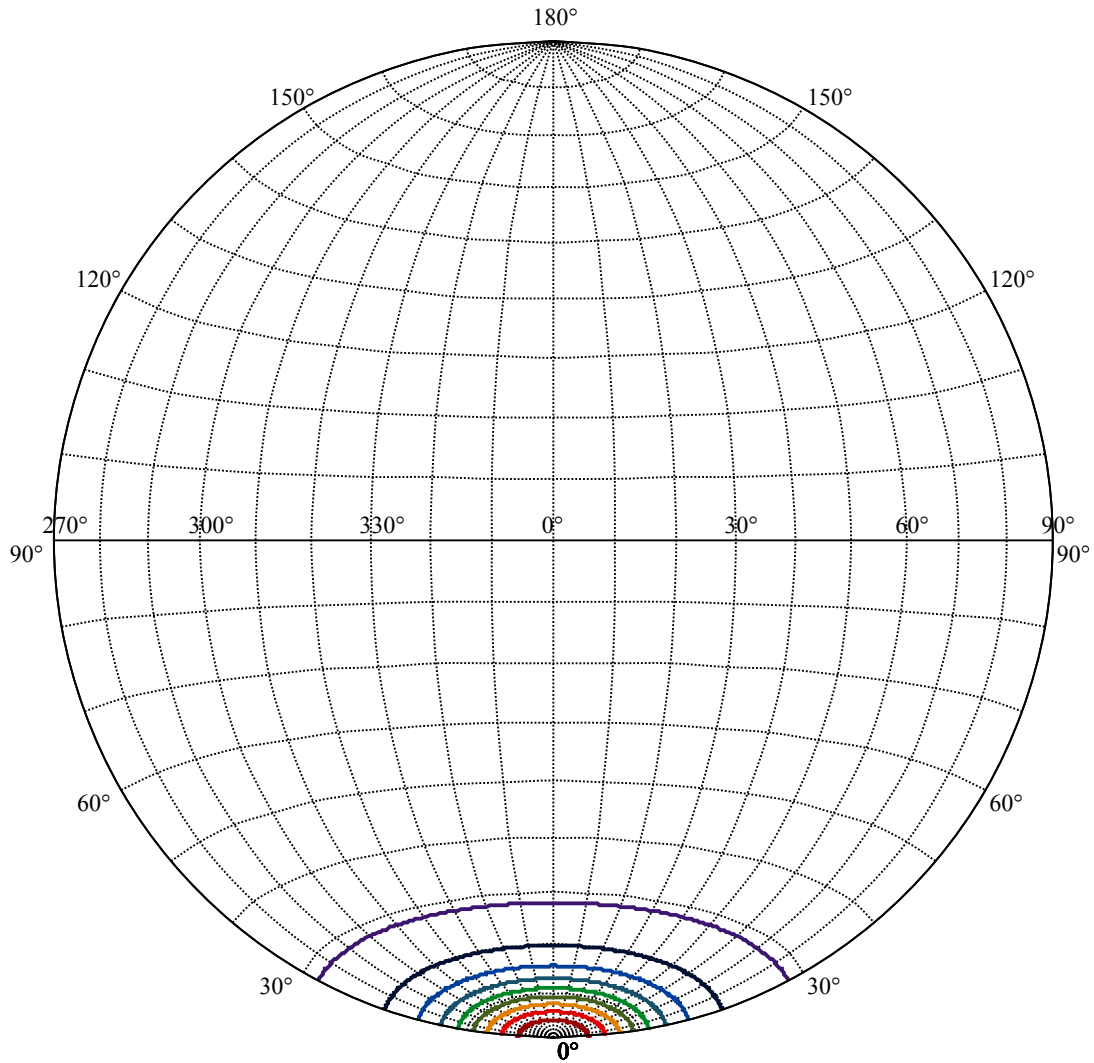
Beam Angle(50%Imax):C0/180Left:11.0 Right:11.0

:C90/270Left:11.0 Right:11.0





(10%Imax) 851.186	—
(20%Imax) 1702.37	—
(30%Imax) 2553.56	—
(40%Imax) 3404.74	—
(50%Imax) 4255.93	—
(60%Imax) 5107.12	—
(70%Imax) 5958.3	—
(80%Imax) 6809.49	—
(90%Imax) 7660.68	—



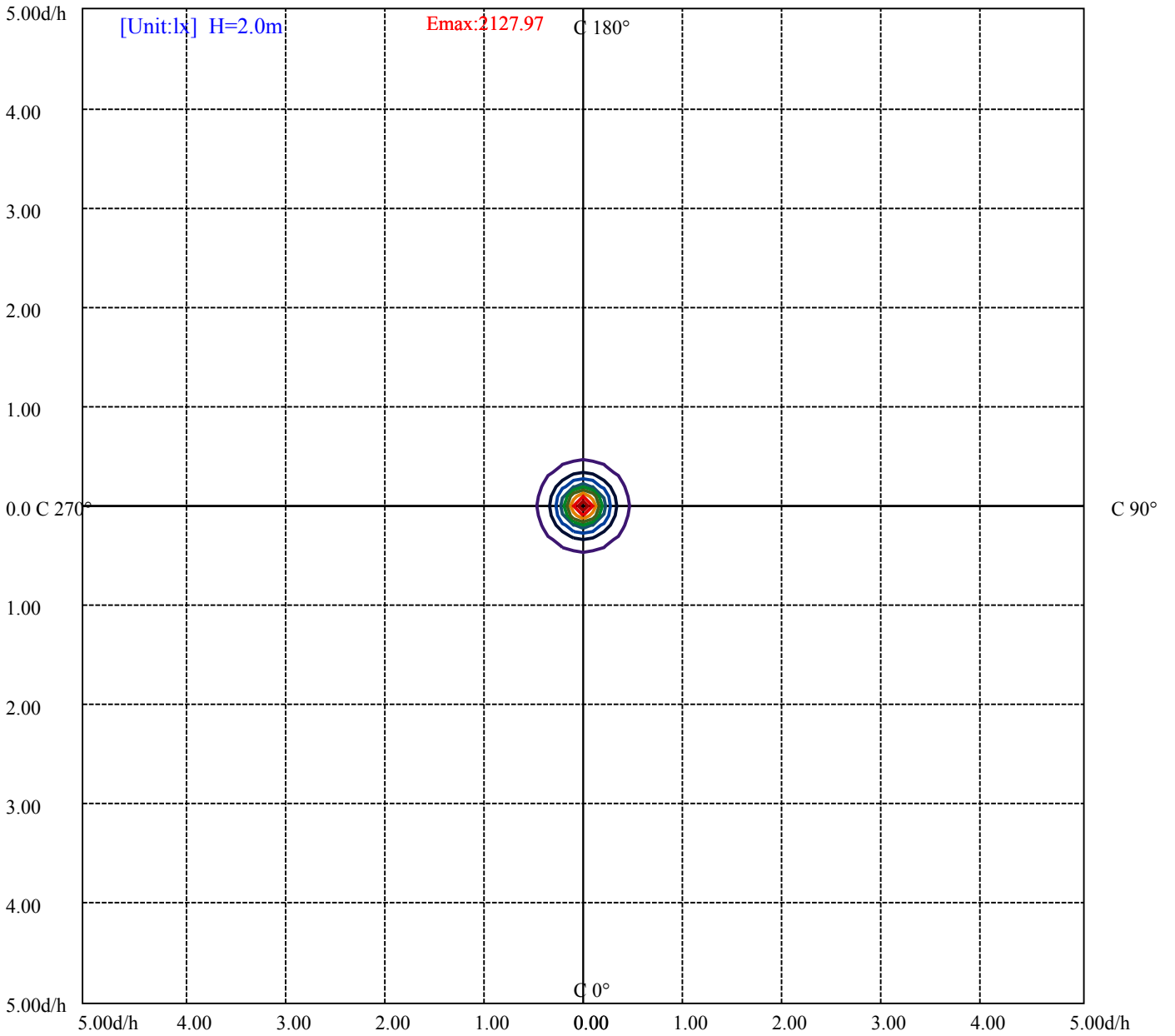
House

[Unit:cd]

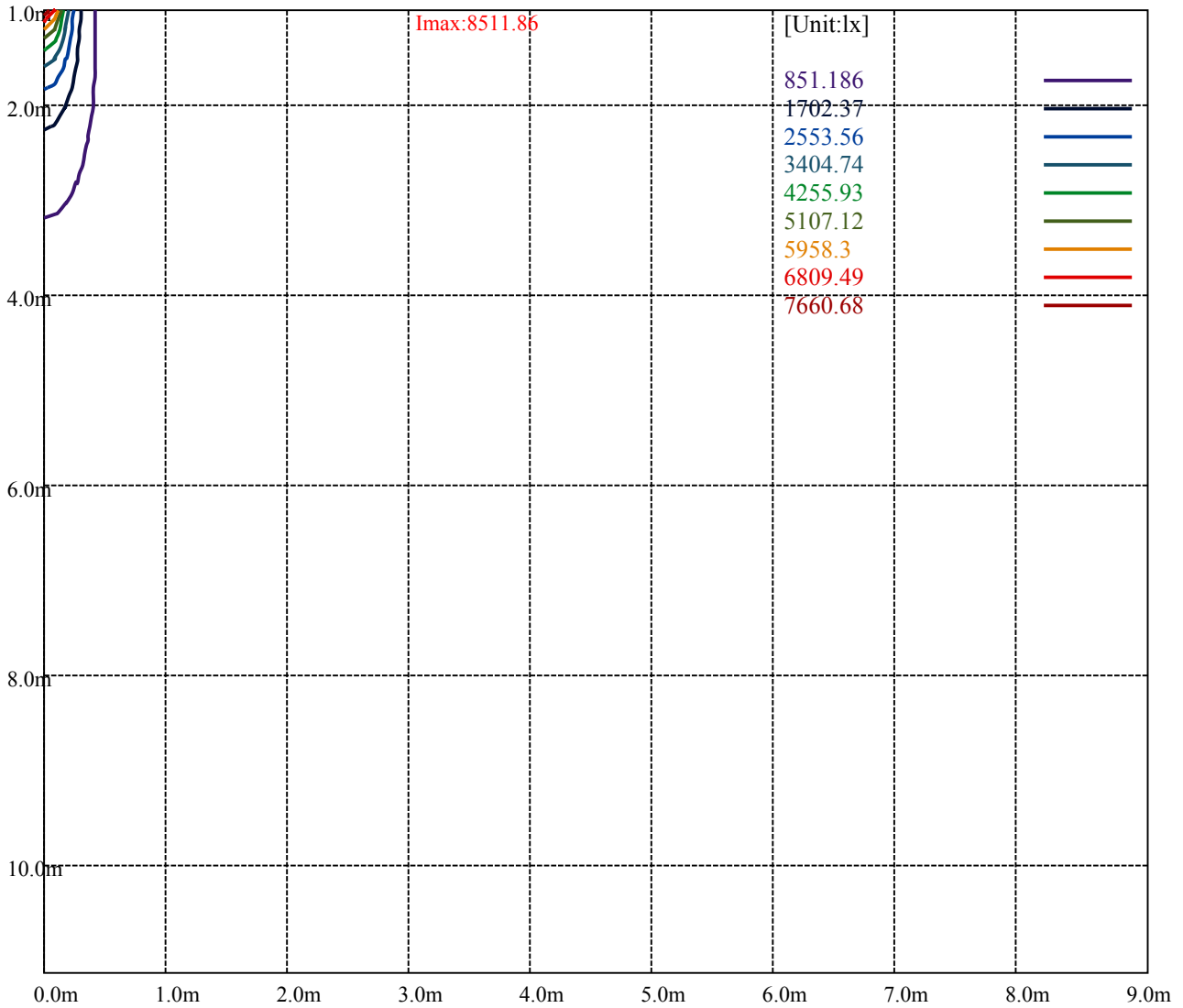
Road

Imax:8511.86

(10%Imax)	851.186	—
(20%Imax)	1702.37	—
(30%Imax)	2553.56	—
(40%Imax)	3404.74	—
(50%Imax)	4255.93	—
(60%Imax)	5107.12	—
(70%Imax)	5958.3	—
(80%Imax)	6809.49	—
(90%Imax)	7660.68	—



- (10%Emax) 212.7965
- (20%Emax) 425.5925
- (30%Emax) 638.39
- (40%Emax) 851.185
- (50%Emax) 1063.983
- (60%Emax) 1276.777
- (70%Emax) 1489.575
- (80%Emax) 1702.37
- (90%Emax) 1915.167



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

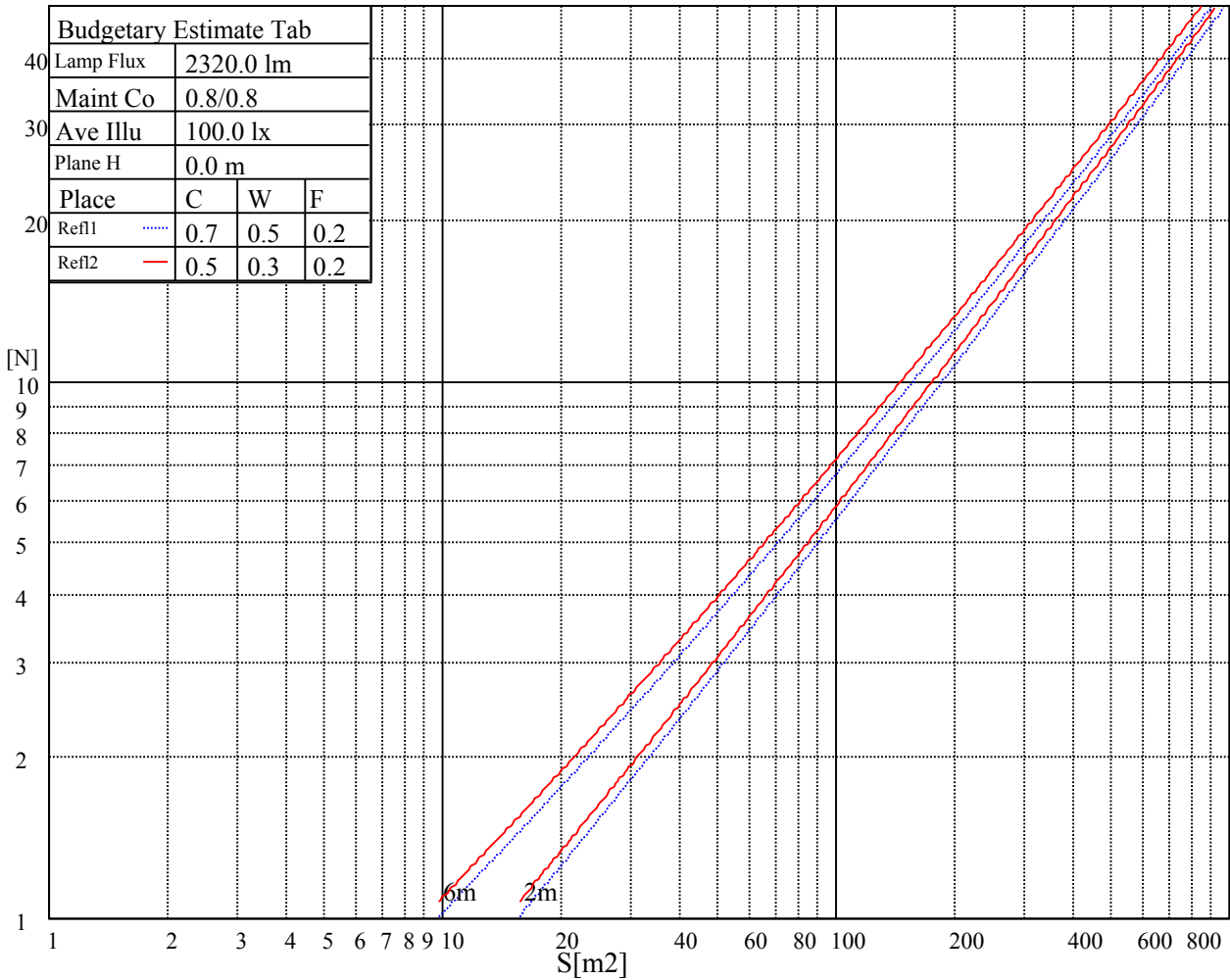
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

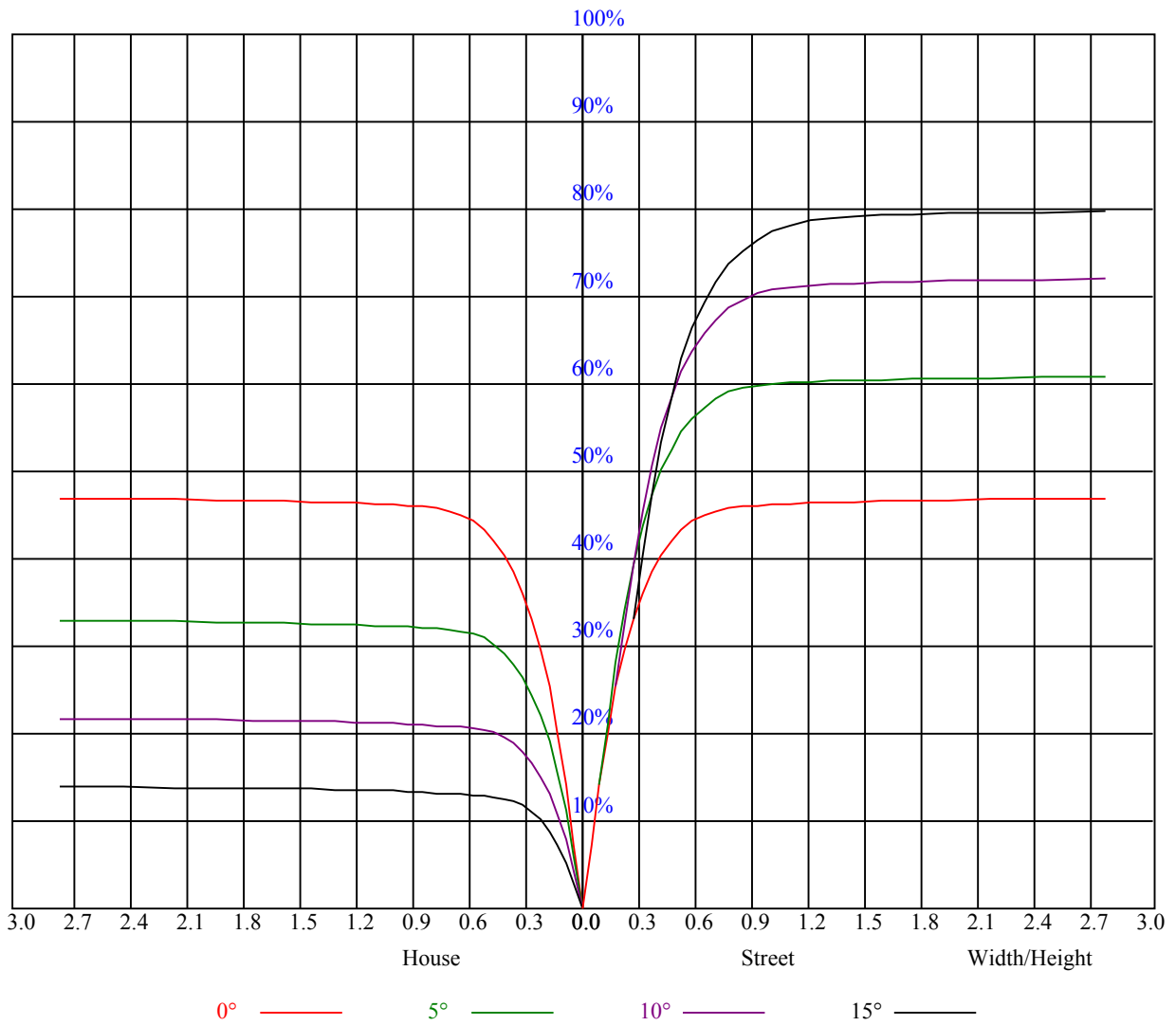


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
4H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
8H	12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
12H	12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
Variation with the observer position at spacings:											
S = 1.0H		非数字/非数字					非数字/非数字				
S = 1.5H		非数字/非数字					非数字/非数字				
S = 2.0H		非数字/非数字					非数字/非数字				
Standard tables:		BK0					BK0				
Uncorrected UGR		负无穷大					负无穷大				

UGR calculation is based on CIE Publ. 117 ,S/H = 0.25



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	1.12	1.12	1.12	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	0.96	0.96	0.96	0.94
1	1.06	1.03	1.02	1.03	1.02	1.00	1.00	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90
2	1.00	0.96	0.93	0.98	0.95	0.92	0.95	0.93	0.90	0.92	0.90	0.89	0.90	0.88	0.87	0.85
3	0.94	0.90	0.87	0.93	0.89	0.87	0.91	0.88	0.85	0.89	0.86	0.84	0.86	0.84	0.83	0.81
4	0.90	0.85	0.82	0.89	0.85	0.82	0.87	0.83	0.81	0.85	0.82	0.80	0.83	0.81	0.79	0.78
5	0.86	0.81	0.78	0.85	0.81	0.78	0.83	0.80	0.77	0.82	0.79	0.76	0.80	0.78	0.76	0.74
6	0.82	0.77	0.74	0.81	0.77	0.74	0.80	0.76	0.73	0.79	0.75	0.73	0.78	0.75	0.72	0.71
7	0.79	0.74	0.71	0.78	0.74	0.71	0.77	0.73	0.70	0.76	0.73	0.70	0.75	0.72	0.70	0.69
8	0.76	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.67	0.73	0.69	0.67	0.66
9	0.73	0.68	0.65	0.72	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.65	0.64
10	0.70	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.69	0.65	0.63	0.68	0.65	0.62	0.61



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	8409.87	8222.78	7851.35	7470.52	7040.42	6441.50	5969.89	5479.45	4987.91
45.0	8558.77	8472.98	8318.54	8008.01	7624.96	7193.75	6729.34	6139.82	5663.23
90.0	8515.04	8361.71	8066.68	7746.74	7331.03	6864.40	6277.65	5788.33	5315.61
135.0	8563.76	8552.68	8417.07	8216.13	7825.89	7424.58	6980.09	6502.94	5881.87
180.0	8409.87	8557.67	8567.63	8472.98	8314.66	7977.01	7611.67	7169.95	6686.71
225.0	8558.77	8541.61	8436.44	8238.83	7847.48	7429.56	6977.87	6337.99	5814.34
270.0	8515.04	8571.50	8528.33	8409.32	8125.91	7810.39	7308.89	6839.49	6354.59
315.0	8563.76	8482.94	8256.54	7989.74	7629.94	7209.25	6620.29	6125.43	5613.41
360.0	8409.87	8222.78	7851.35	7470.52	7040.42	6441.50	5969.89	5479.45	4987.91

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4422.75	4010.92	3622.34	3266.42	2880.60	2601.62	2349.21	2079.08	1898.63
45.0	5181.65	4712.25	4178.09	3781.20	3327.86	3002.38	2709.56	2391.83	2170.41
90.0	4698.41	4271.08	3870.88	3408.67	3079.87	2714.54	2453.83	2224.11	2030.92
135.0	5388.67	4892.15	4450.43	3942.28	3560.34	3227.11	2837.43	2565.09	2318.21
180.0	6049.04	5532.59	5030.54	4439.36	4014.24	3622.34	3191.69	2871.74	2609.37
225.0	5297.34	4802.48	4245.62	3838.77	3466.80	3136.33	2757.72	2490.36	2252.34
270.0	5722.46	5212.09	4729.97	4175.88	3770.69	3408.12	3071.02	2688.52	2437.22
315.0	5103.60	4522.94	4098.93	3714.23	3282.47	2973.60	2687.97	2372.46	2142.18
360.0	4422.75	4010.92	3622.34	3266.42	2880.60	2601.62	2349.21	2079.08	1898.63

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1738.66	1569.27	1449.16	1345.09	1098.05	1098.05	1059.36	964.70	889.09
45.0	1981.66	1815.04	1636.25	1510.60	1404.32	1304.13	1195.08	1114.27	1030.68
90.0	1827.22	1678.32	1552.67	1440.85	1318.52	1103.25	1103.25	1064.56	964.32
135.0	2061.92	1883.68	1726.48	1554.88	1440.30	1336.79	1222.21	1138.62	1055.04
180.0	2286.10	2077.97	1894.75	1734.23	1552.11	1427.02	1330.15	1212.24	1129.77
225.0	1994.94	1812.28	1658.39	1495.10	1381.63	1198.96	1086.98	1086.98	1010.09
270.0	2213.59	2003.25	1778.51	1636.81	1513.37	1373.88	1269.81	1168.51	1087.14
315.0	1905.82	1736.44	1594.18	1469.08	1363.91	1190.10	1084.71	1084.71	1014.24
360.0	1738.66	1569.27	1449.16	1345.09	1098.05	1098.05	1059.36	964.70	889.09

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	814.80	735.65	639.78	563.39	489.16	418.64	341.03	284.63	219.14
45.0	932.15	855.21	776.61	678.08	599.48	503.16	431.76	365.33	306.11
90.0	883.17	786.35	706.37	626.10	527.30	451.52	383.43	321.66	250.86
135.0	974.78	877.35	798.75	718.49	638.78	540.25	465.52	379.73	317.73
180.0	1053.93	974.78	877.35	802.63	721.26	622.17	543.57	450.58	383.05
225.0	915.16	839.94	761.11	682.79	582.26	507.04	436.63	369.15	295.81
270.0	1007.99	932.15	834.73	755.58	674.21	595.05	500.40	428.44	363.12
315.0	920.14	845.30	767.92	688.32	588.63	511.69	424.34	358.47	298.69
360.0	814.80	735.65	639.78	563.39	489.16	418.64	341.03	284.63	219.14

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	174.31	136.50	99.25	77.83	62.11	51.04	41.57	36.42	32.71
45.0	292.27	226.17	146.58	114.08	83.31	66.15	53.97	44.89	37.42
90.0	202.04	160.36	125.49	91.78	72.18	57.84	45.45	38.69	33.99
135.0	288.95	288.95	151.12	116.85	90.72	67.14	54.47	45.33	38.97
180.0	321.05	292.82	292.82	156.65	122.55	95.32	70.24	56.57	46.83
225.0	244.05	186.49	148.24	116.74	91.67	68.64	55.96	46.94	39.13
270.0	288.95	288.95	223.74	137.06	107.22	84.08	63.55	52.36	44.17
315.0	229.16	181.34	140.99	101.46	78.27	61.55	50.04	40.46	35.43
360.0	174.31	136.50	99.25	77.83	62.11	51.04	41.57	36.42	32.71

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	29.95	27.46	26.02	24.91	24.02	23.64	23.53	23.64	24.08
45.0	33.27	29.61	27.51	25.96	24.52	23.69	23.25	23.08	23.14
90.0	29.89	27.62	25.52	24.36	23.41	22.92	22.53	22.47	22.75
135.0	33.49	30.44	28.12	26.35	24.74	23.86	23.14	22.86	22.75
180.0	40.08	34.37	31.27	28.40	26.74	25.46	24.30	23.75	23.36
225.0	34.82	31.72	29.45	27.29	25.96	25.02	24.19	23.75	23.58
270.0	37.20	33.38	30.67	28.51	26.90	25.41	24.52	23.97	23.58
315.0	31.77	29.17	26.85	25.46	24.24	23.58	23.14	23.03	23.19
360.0	29.95	27.46	26.02	24.91	24.02	23.64	23.53	23.64	24.08
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	24.47	25.30	25.79	25.91	25.68	24.58	23.19	21.42	19.60
45.0	23.41	23.97	24.63	25.35	25.63	25.52	24.63	23.41	21.64
90.0	23.19	23.75	24.69	25.19	25.35	24.74	23.69	21.70	20.04
135.0	23.03	23.47	24.08	24.85	25.46	25.68	25.24	24.36	22.42
180.0	23.30	23.53	23.91	24.52	25.24	25.85	26.07	25.85	24.69
225.0	23.64	24.02	24.47	25.19	25.57	25.63	25.19	24.08	22.47
270.0	23.58	23.80	24.24	24.91	25.57	25.85	25.91	25.24	23.75
315.0	23.47	23.97	24.80	25.41	25.63	25.68	24.80	23.58	22.03
360.0	24.47	25.30	25.79	25.91	25.68	24.58	23.19	21.42	19.60
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	17.66	16.61	15.61	14.83	14.34	13.78	13.40	13.06	12.68
45.0	19.32	17.77	16.72	15.55	14.89	14.39	13.95	13.45	13.12
90.0	18.32	16.77	15.78	15.06	14.50	13.89	13.51	13.17	12.84
135.0	20.65	18.88	17.21	16.11	15.11	14.56	14.00	13.51	13.17
180.0	23.08	21.26	18.93	17.49	16.11	15.33	14.72	14.17	13.62
225.0	20.70	18.93	17.21	16.16	15.33	14.56	14.12	13.67	13.17
270.0	22.03	20.15	18.49	17.16	15.94	15.17	14.56	14.00	13.56
315.0	19.65	18.05	16.77	15.61	14.89	14.34	13.78	13.40	13.01
360.0	17.66	16.61	15.61	14.83	14.34	13.78	13.40	13.06	12.68
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	12.40	12.12	11.90	11.68	11.46	11.24	11.07	10.79	10.57
45.0	12.84	12.45	12.23	12.01	11.79	11.51	11.29	11.07	10.85
90.0	12.45	12.23	11.96	11.73	11.51	11.29	11.07	10.85	10.57
135.0	12.79	12.45	12.18	11.96	11.73	11.51	11.29	11.07	10.90
180.0	13.28	12.90	12.62	12.23	12.01	11.73	11.51	11.29	11.13
225.0	12.84	12.45	12.23	11.96	11.73	11.46	11.29	11.07	10.90
270.0	13.06	12.73	12.45	12.12	11.90	11.62	11.40	11.18	10.96
315.0	12.68	12.34	12.07	11.85	11.62	11.40	11.18	10.90	10.68
360.0	12.40	12.12	11.90	11.68	11.46	11.24	11.07	10.79	10.57
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	10.35	10.07	9.91	9.69	9.52	9.35	9.13	9.02	9.02
45.0	10.63	10.35	10.07	9.91	9.69	9.52	9.35	9.19	9.02
90.0	10.35	10.07	9.91	9.74	9.58	9.41	9.19	9.08	9.02
135.0	10.63	10.41	10.13	9.91	9.74	9.58	9.35	9.24	9.13
180.0	10.90	10.68	10.41	10.19	9.96	9.80	9.58	9.41	9.24
225.0	10.63	10.35	10.13	9.96	9.80	9.63	9.47	9.30	9.13
270.0	10.74	10.52	10.30	10.02	9.85	9.69	9.52	9.30	9.13
315.0	10.46	10.24	10.02	9.85	9.63	9.52	9.35	9.19	9.02
360.0	10.35	10.07	9.91	9.69	9.52	9.35	9.13	9.02	9.02

Intensity data(cd)

C/γ(°)	90.0
0.0	9.02
45.0	9.02
90.0	9.02
135.0	9.02
180.0	9.08
225.0	8.97
270.0	9.02
315.0	9.02
360.0	9.02