



NATA LIGHTING CO.,LTD.
www.nata.cn
Email:info@nata.com
Tel:+86-750-3770000 Fax:+86-750-3771111
Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

NT

Client:

LumCAT: 2-2688-L

Luminaire: 92.70.411.00

Report No: 2024408-B010

Ballast type: AC

Test No: 2024408-C010

Voltage(V): 34.900

LampCAT: Fortimo_SLM_C_1205

Current(A): 0.401

Lamp flux(lm): 2378.0

Power (W): 13.998

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1977.41, Efficiency(%): 83.15% , Luminous Efficacy(lm/W): 141.26

Central intensity(cd): 4914.778, Maximum intensity(cd): 4914.778

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=34.4

[C90/270]Total=34.4

Field angle(10%Imax): [C0/180]Total=60.6

[C90/270]Total=60.6

Maximum s/h(1/2): C0_180=0.57 C90_270=0.57

Maximum s/h(1/4): C0_180=0.56 C90_270=0.56

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 83.15%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.720%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/4/08
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4914.778	0.000	0	0.00%	0.00%
1.0	4907.097	4.700	4.7	0.20%	0.24%
2.0	4889.540	14.061	18.761	0.59%	0.95%
3.0	4856.987	23.310	42.071	0.98%	2.13%
4.0	4817.484	32.384	74.455	1.36%	3.77%
5.0	4760.059	41.202	115.657	1.73%	5.85%
6.0	4675.421	49.586	165.243	2.09%	8.36%
7.0	4571.032	57.393	222.635	2.41%	11.26%
8.0	4430.431	64.422	287.057	2.71%	14.52%
9.0	4276.883	70.568	357.625	2.97%	18.09%
10.0	4100.145	75.809	433.434	3.19%	21.92%
11.0	3903.582	79.974	513.408	3.36%	25.96%
12.0	3688.805	82.996	596.403	3.49%	30.16%
13.0	3474.027	85.005	681.408	3.57%	34.46%
14.0	3220.991	85.696	767.104	3.60%	38.79%
15.0	2993.119	85.310	852.414	3.59%	43.11%
16.0	2757.127	84.257	936.671	3.54%	47.37%
17.0	2512.429	82.061	1018.732	3.45%	51.52%
18.0	2291.068	79.199	1097.932	3.33%	55.52%
19.0	2079.582	76.040	1173.972	3.20%	59.37%
20.0	1875.485	72.389	1246.361	3.04%	63.03%
21.0	1678.191	68.238	1314.598	2.87%	66.48%
22.0	1444.189	62.746	1377.344	2.64%	69.65%
23.0	1314.269	57.880	1435.224	2.43%	72.58%
24.0	1198.965	54.948	1490.172	2.31%	75.36%
25.0	1089.031	52.024	1542.196	2.19%	77.99%
26.0	967.128	48.536	1590.732	2.04%	80.45%
27.0	856.843	44.624	1635.356	1.88%	82.70%
28.0	742.965	40.504	1675.86	1.70%	84.75%
29.0	633.082	36.001	1711.861	1.51%	86.57%
30.0	516.022	31.026	1742.887	1.30%	88.14%
31.0	420.652	26.066	1768.953	1.10%	89.46%
32.0	331.552	21.550	1790.503	0.91%	90.55%
33.0	264.317	17.555	1808.057	0.74%	91.44%
34.0	208.230	14.301	1822.358	0.60%	92.16%
35.0	168.603	11.703	1834.061	0.49%	92.75%
36.0	115.084	9.033	1843.094	0.38%	93.21%
37.0	101.142	7.052	1850.146	0.30%	93.56%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	91.332	6.424	1856.57	0.27%	93.89%
39.0	82.209	5.923	1862.494	0.25%	94.19%
40.0	75.333	5.495	1867.988	0.23%	94.47%
41.0	68.866	5.135	1873.123	0.22%	94.73%
42.0	63.153	4.796	1877.919	0.20%	94.97%
43.0	57.886	4.484	1882.403	0.19%	95.20%
44.0	53.555	4.206	1886.609	0.18%	95.41%
45.0	49.671	3.967	1890.576	0.17%	95.61%
46.0	46.240	3.751	1894.327	0.16%	95.80%
47.0	43.007	3.550	1897.877	0.15%	95.98%
48.0	40.220	3.364	1901.241	0.14%	96.15%
49.0	37.937	3.210	1904.451	0.13%	96.31%
50.0	35.582	3.065	1907.516	0.13%	96.47%
51.0	33.716	2.932	1910.448	0.12%	96.61%
52.0	31.961	2.818	1913.266	0.12%	96.76%
53.0	30.315	2.709	1915.975	0.11%	96.89%
54.0	28.815	2.606	1918.581	0.11%	97.03%
55.0	27.396	2.509	1921.09	0.11%	97.15%
56.0	26.057	2.415	1923.506	0.10%	97.27%
57.0	24.901	2.330	1925.836	0.10%	97.39%
58.0	23.680	2.247	1928.082	0.09%	97.51%
59.0	22.546	2.161	1930.243	0.09%	97.61%
60.0	21.544	2.083	1932.326	0.09%	97.72%
61.0	20.519	2.007	1934.334	0.08%	97.82%
62.0	19.634	1.935	1936.269	0.08%	97.92%
63.0	18.844	1.871	1938.14	0.08%	98.01%
64.0	18.069	1.811	1939.951	0.08%	98.11%
65.0	17.418	1.756	1941.707	0.07%	98.19%
66.0	16.803	1.707	1943.415	0.07%	98.28%
67.0	16.401	1.670	1945.084	0.07%	98.37%
68.0	16.130	1.648	1946.732	0.07%	98.45%
69.0	16.174	1.648	1948.38	0.07%	98.53%
70.0	16.284	1.667	1950.047	0.07%	98.62%
71.0	16.533	1.696	1951.743	0.07%	98.70%
72.0	16.686	1.727	1953.471	0.07%	98.79%
73.0	16.730	1.747	1955.218	0.07%	98.88%
74.0	16.752	1.760	1956.978	0.07%	98.97%
75.0	16.701	1.768	1958.746	0.07%	99.06%

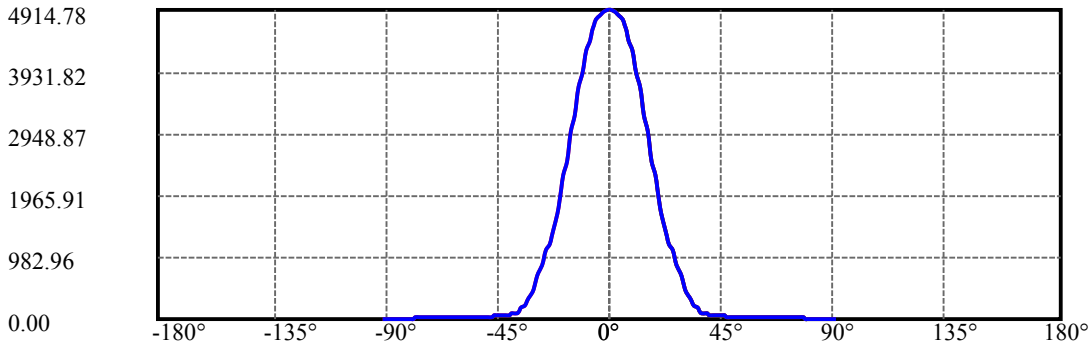
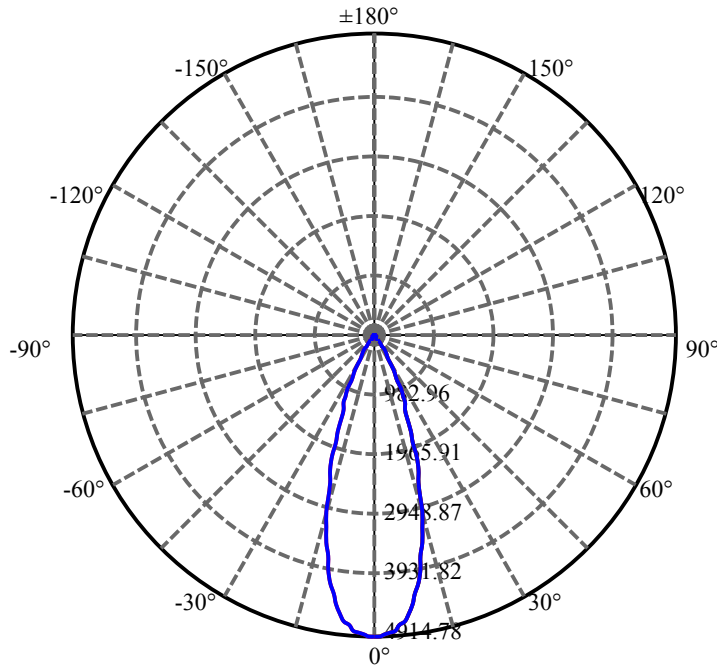
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	16.306	1.752	1960.498	0.07%	99.14%
77.0	15.735	1.708	1962.206	0.07%	99.23%
78.0	14.960	1.643	1963.85	0.07%	99.31%
79.0	13.943	1.553	1965.402	0.07%	99.39%
80.0	12.421	1.421	1966.824	0.06%	99.46%
81.0	11.061	1.270	1968.094	0.05%	99.53%
82.0	10.410	1.164	1969.258	0.05%	99.59%
83.0	10.139	1.117	1970.375	0.05%	99.64%
84.0	9.876	1.090	1971.465	0.05%	99.70%
85.0	9.634	1.065	1972.53	0.04%	99.75%
86.0	9.210	1.030	1973.56	0.04%	99.81%
87.0	8.910	0.992	1974.552	0.04%	99.86%
88.0	8.705	0.965	1975.517	0.04%	99.90%
89.0	8.610	0.949	1976.466	0.04%	99.95%
90.0	8.552	0.941	1977.407	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1742.89	73.29%	88.14%
0-40	1867.99	78.55%	94.47%
0-60	1932.33	81.26%	97.72%
0-90	1976.47	83.11%	99.95%
0-120	1976.47	83.11%	99.95%
0-180	1977.41	83.15%	100.00%
60-90	44.14	1.86%	2.23%
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%
0-25.82	1581.93	66.52%	80.00%

ZONAL LUMEN SUMMARY

0-10	433.43
10-20	812.93
20-30	496.53
30-40	125.10
40-50	39.53
50-60	24.81
60-70	17.72
70-80	16.78
80-90	9.64
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: —————

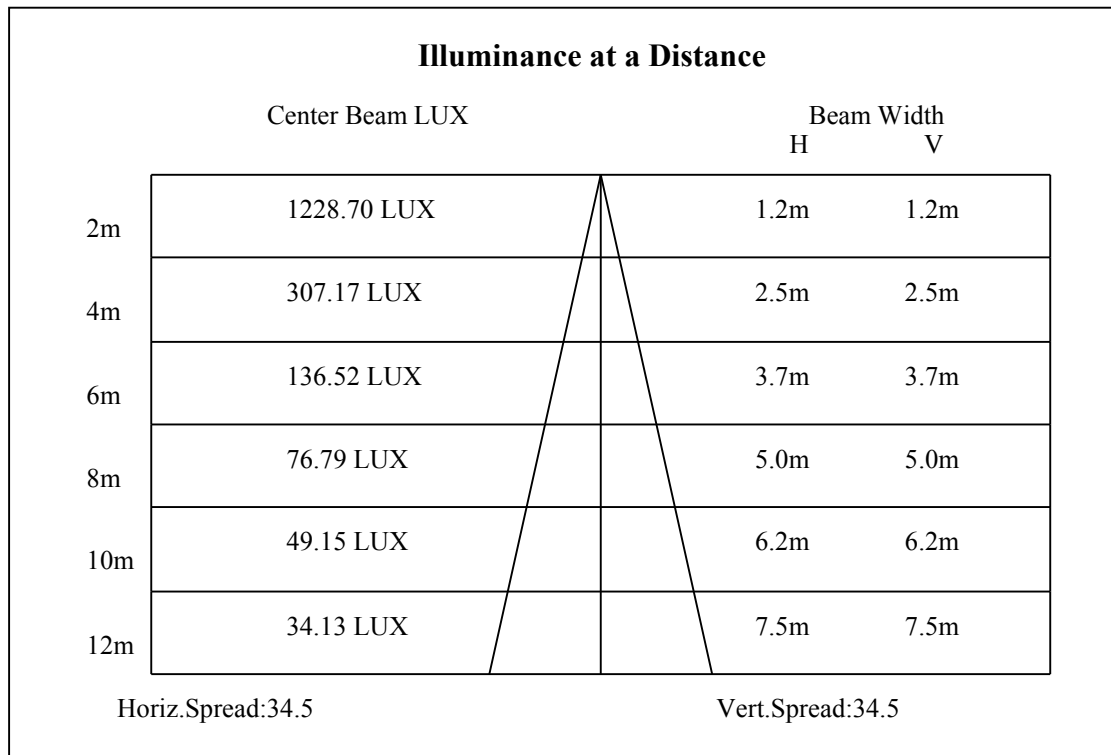
C90/C270: —————

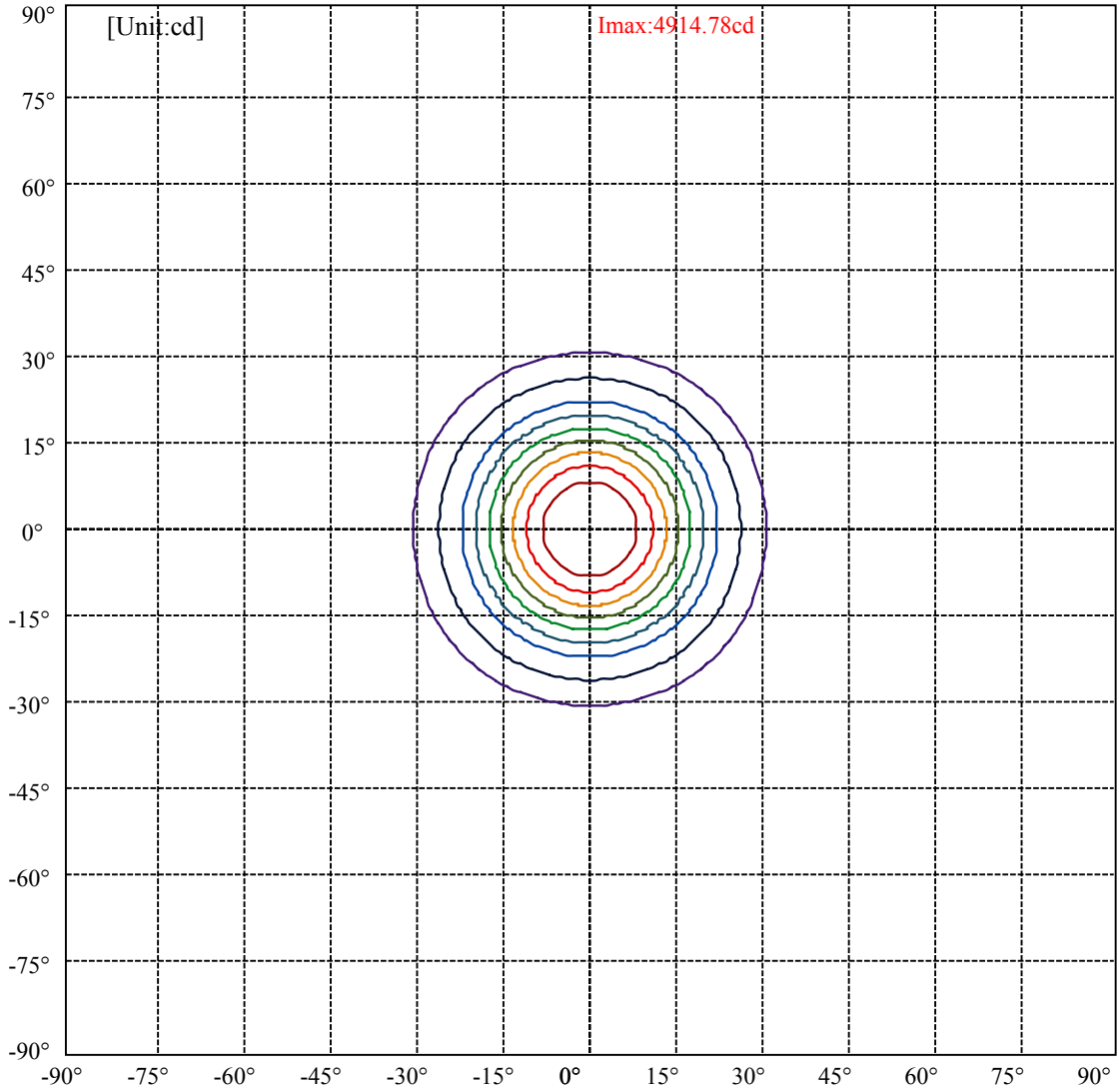
Field angle(10%Imax):C0/180Left:30.3 Right:30.3

:C90/270Left:30.3 Right:30.3

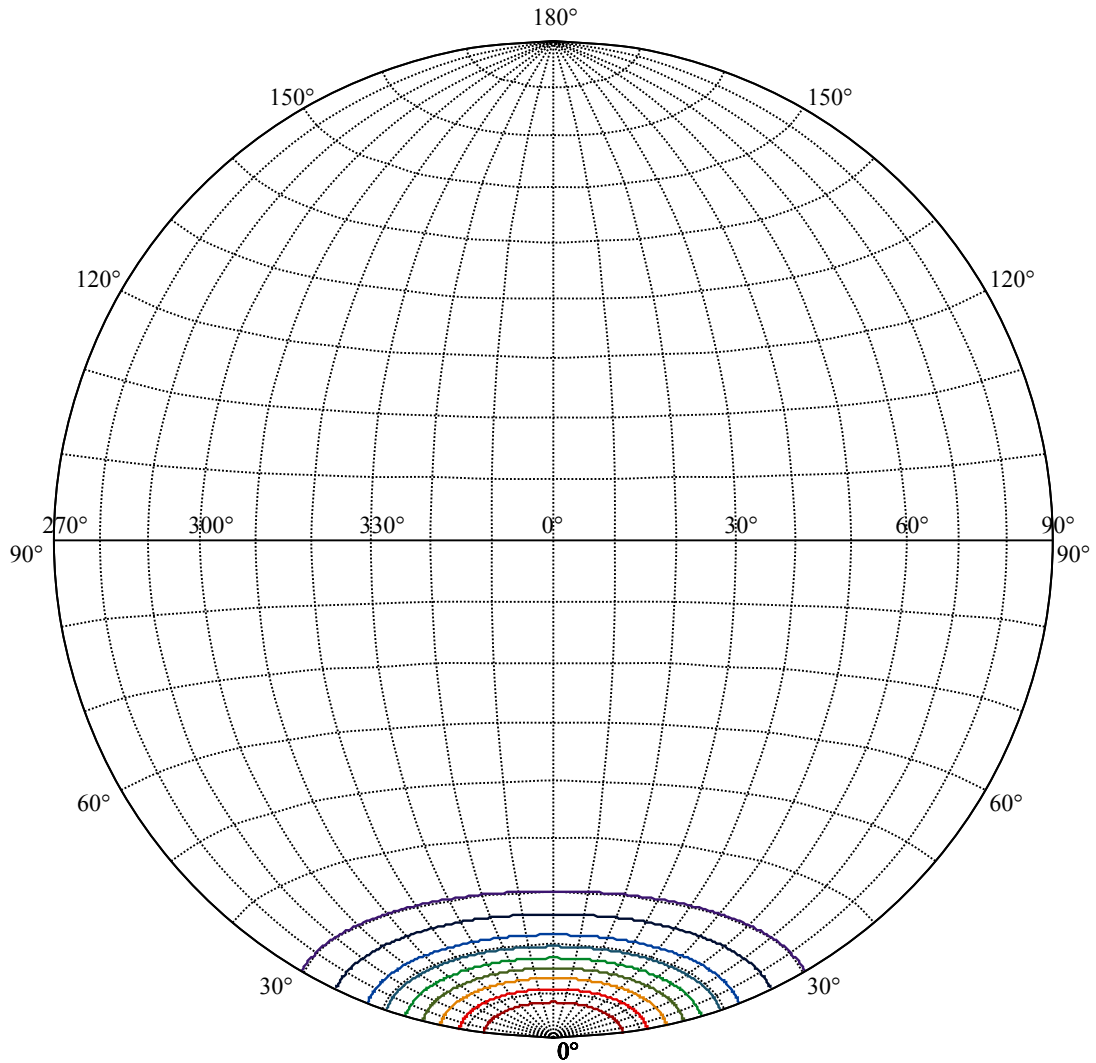
Beam Angle(50%Imax):C0/180Left:17.2 Right:17.2

:C90/270Left:17.2 Right:17.2





(10%Imax) 491.478	—
(20%Imax) 982.956	—
(30%Imax) 1474.43	—
(40%Imax) 1965.91	—
(50%Imax) 2457.39	—
(60%Imax) 2948.87	—
(70%Imax) 3440.34	—
(80%Imax) 3931.82	—
(90%Imax) 4423.3	—



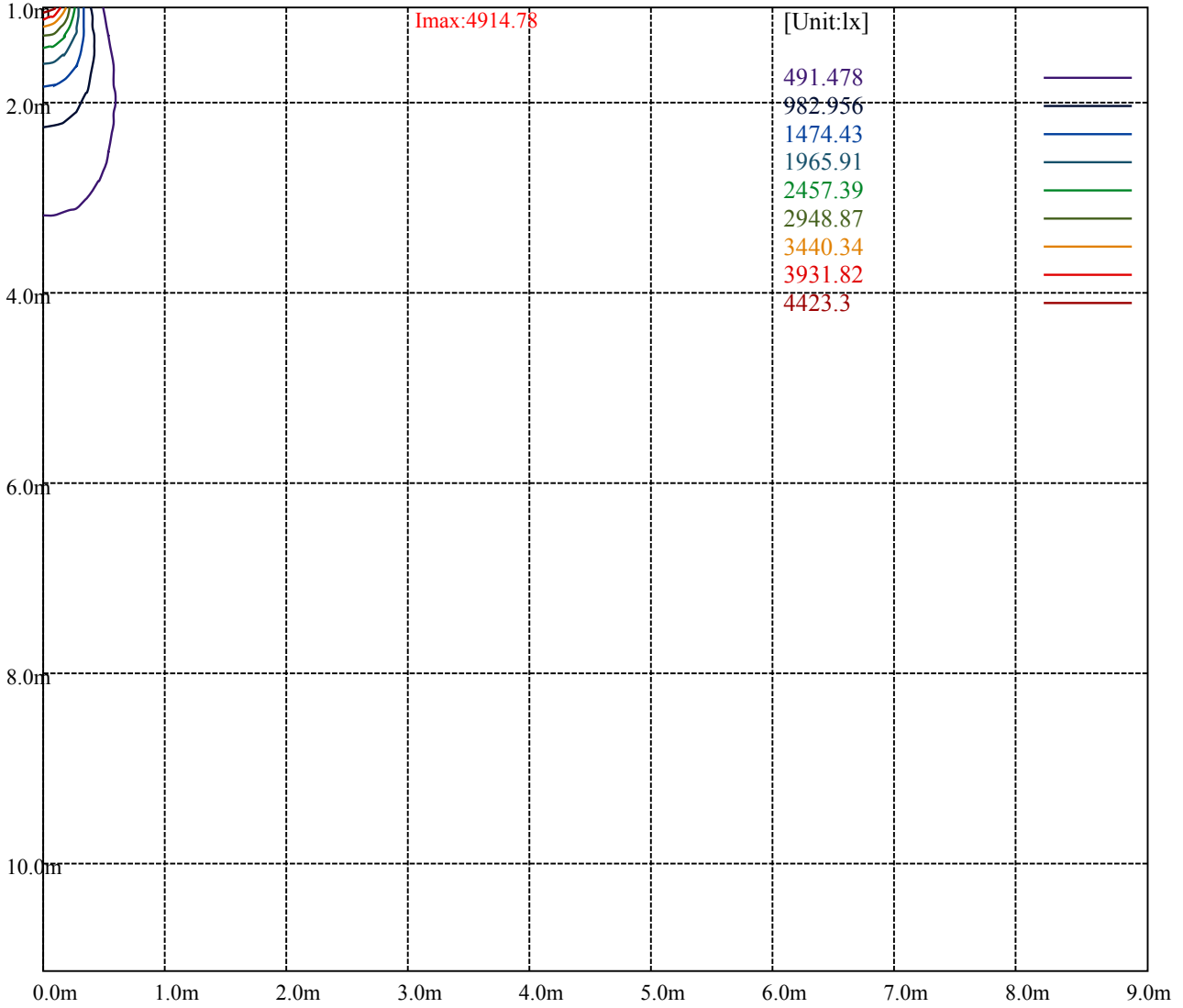
House

[Unit:cd]

Road

Imax:4914.78

(10%Imax) 491.478	—
(20%Imax) 982.956	—
(30%Imax) 1474.43	—
(40%Imax) 1965.91	—
(50%Imax) 2457.39	—
(60%Imax) 2948.87	—
(70%Imax) 3440.34	—
(80%Imax) 3931.82	—
(90%Imax) 4423.3	—



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

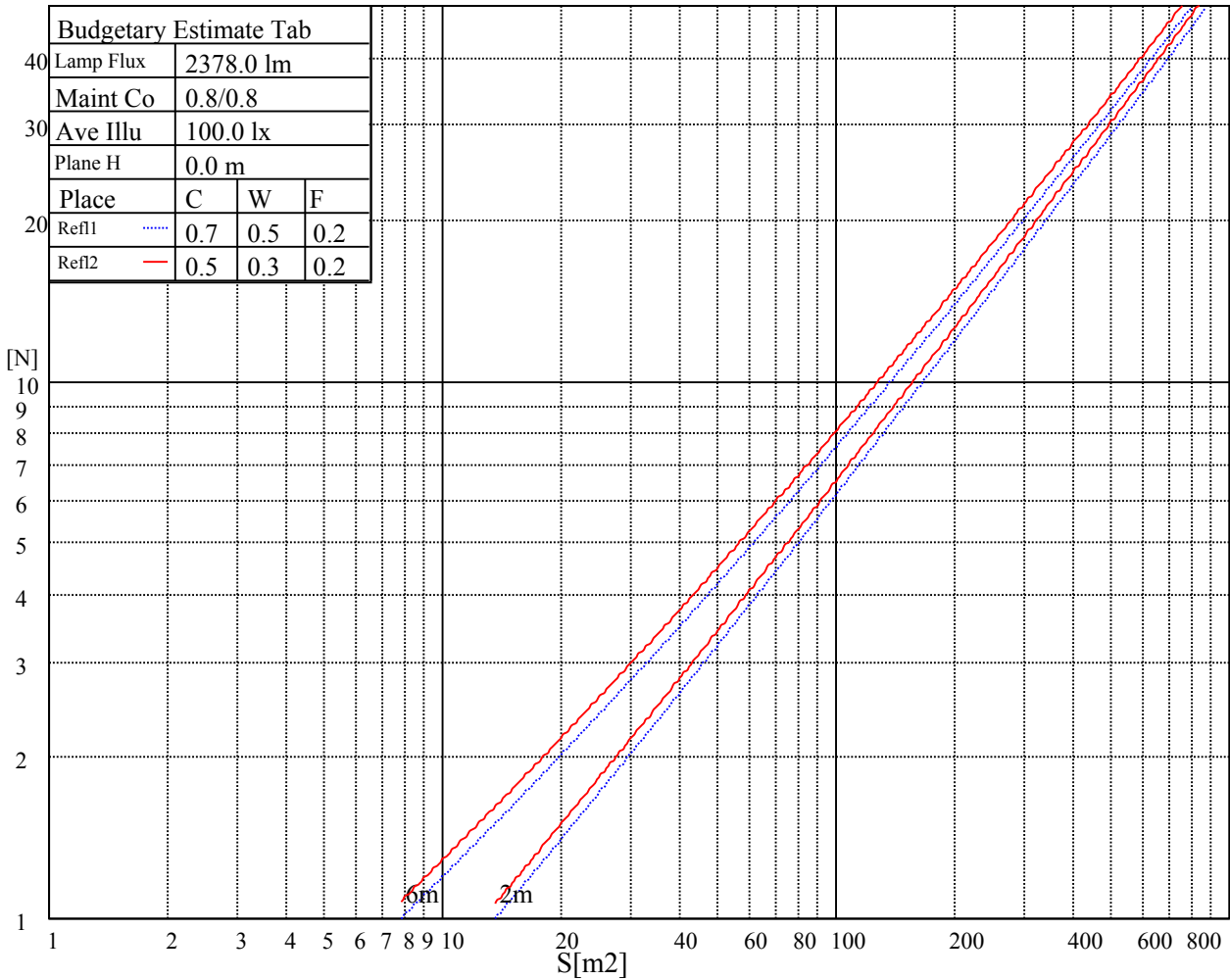
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

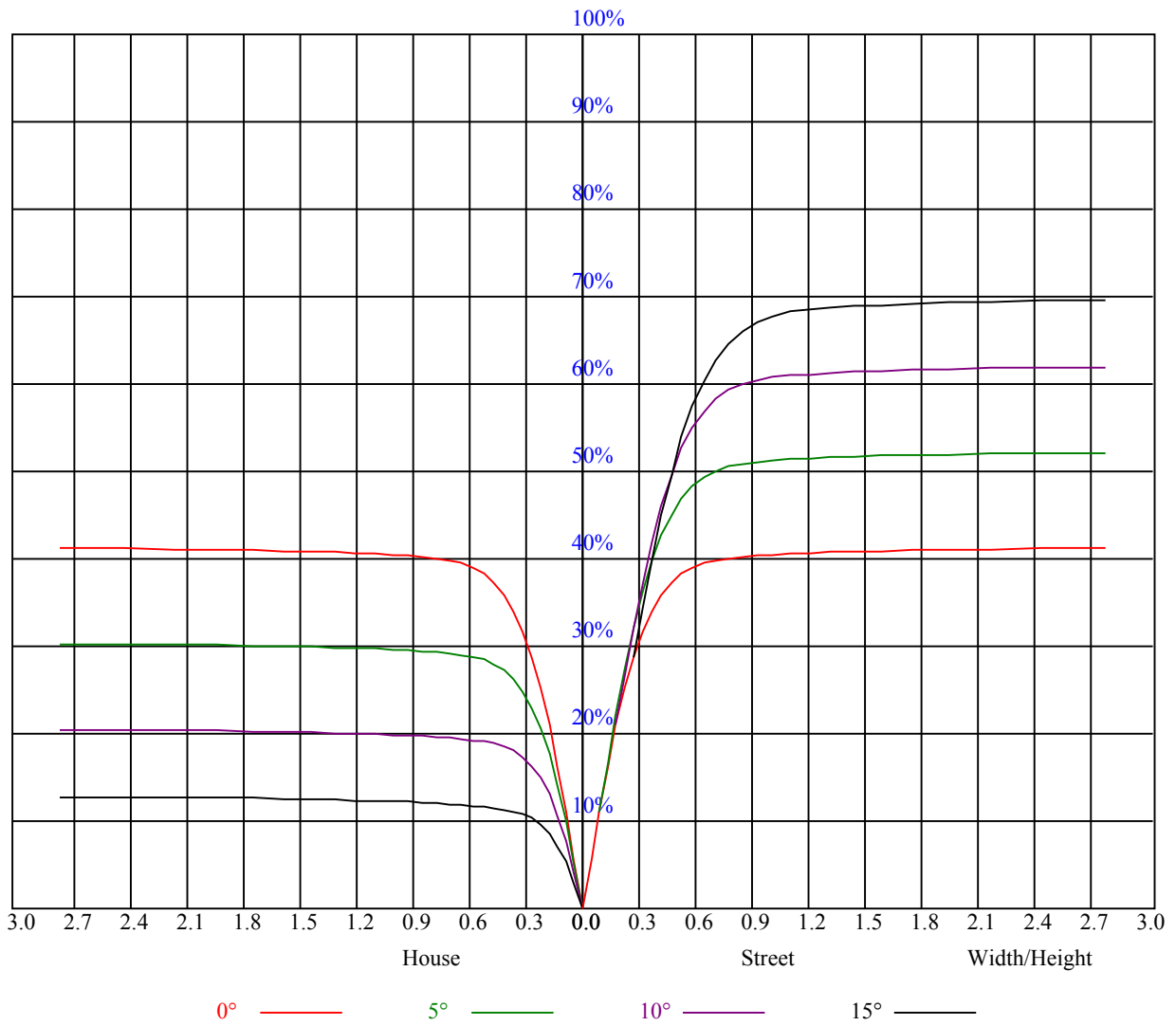


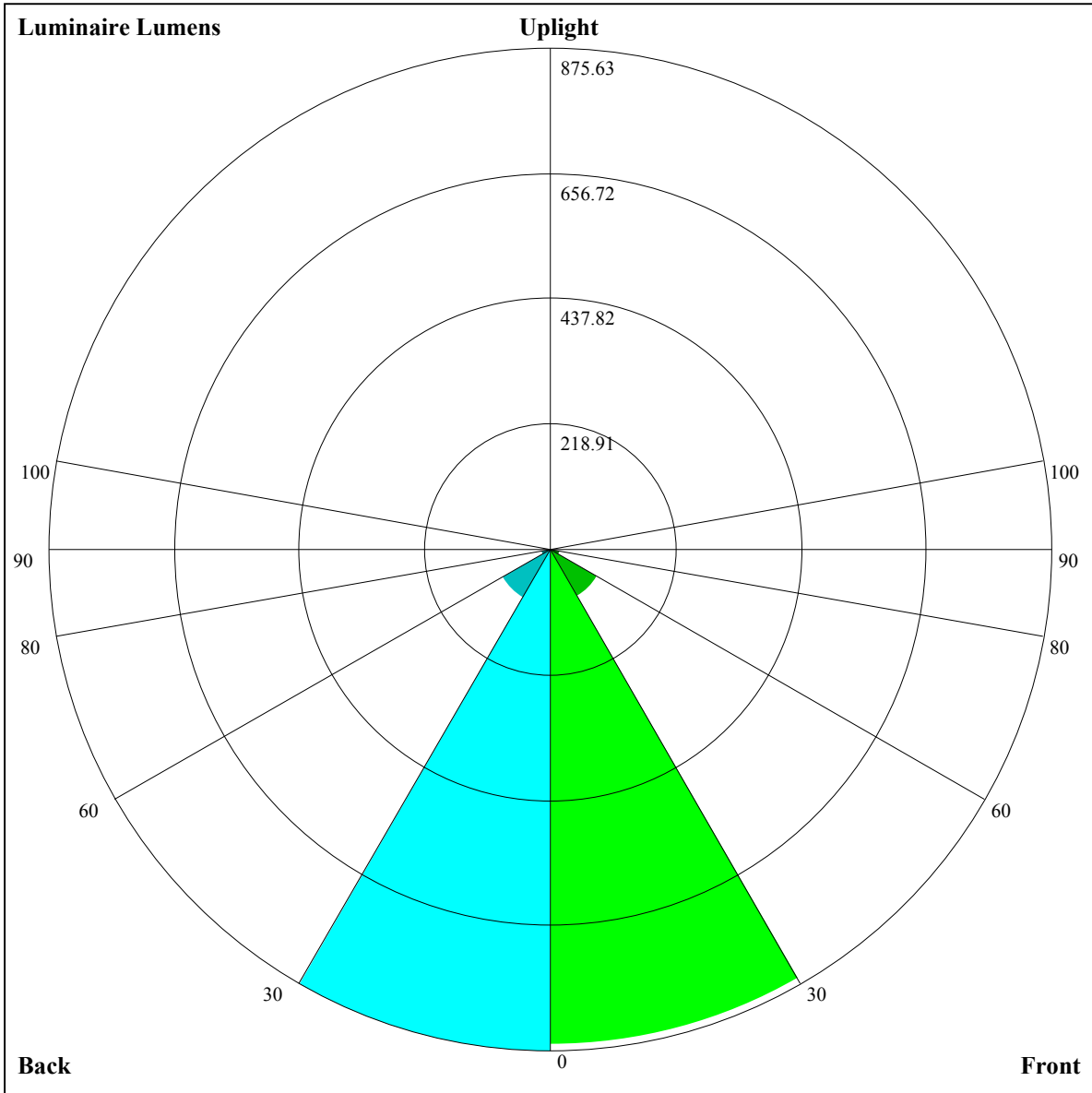
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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 RHOF=20 CU															
0	0.99	0.99	0.99	0.97	0.97	0.97	0.92	0.92	0.92	0.88	0.88	0.88	0.85	0.85	0.85	0.83
1	0.93	0.91	0.89	0.91	0.89	0.88	0.88	0.86	0.85	0.84	0.83	0.82	0.82	0.81	0.80	0.79
2	0.87	0.84	0.82	0.86	0.83	0.81	0.83	0.81	0.79	0.81	0.79	0.77	0.78	0.77	0.76	0.74
3	0.83	0.79	0.76	0.81	0.78	0.75	0.79	0.77	0.74	0.77	0.75	0.73	0.75	0.74	0.72	0.71
4	0.78	0.74	0.71	0.77	0.74	0.71	0.76	0.73	0.70	0.74	0.72	0.69	0.73	0.70	0.69	0.67
5	0.75	0.71	0.68	0.74	0.70	0.67	0.73	0.69	0.67	0.71	0.68	0.66	0.70	0.67	0.66	0.64
6	0.71	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.68	0.65	0.63	0.67	0.65	0.63	0.62
7	0.68	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.60	0.65	0.62	0.60	0.59
8	0.65	0.61	0.59	0.65	0.61	0.58	0.64	0.61	0.58	0.63	0.60	0.58	0.63	0.60	0.58	0.57
9	0.63	0.59	0.56	0.63	0.59	0.56	0.62	0.58	0.56	0.61	0.58	0.56	0.61	0.58	0.55	0.55
10	0.61	0.57	0.54	0.60	0.56	0.54	0.60	0.56	0.54	0.59	0.56	0.54	0.58	0.56	0.53	0.53





Luminaire Lumens:

FL=866.22,FM=95.27,FH=17.76,FVH=5.4

BL=875.63,BM=97.51,BH=16.25,BVH=5.27

UL=0,UH=0

BUG Rating:B2-U0-G0

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	4915.95	4903.07	4879.66	4828.16	4784.27	4730.43	4623.92	4510.97	4385.73
45.0	4910.68	4911.85	4914.78	4897.81	4874.40	4845.14	4808.27	4723.99	4637.97
90.0	4920.63	4920.05	4913.61	4896.05	4872.06	4815.88	4750.92	4664.30	4555.45
135.0	4911.85	4919.46	4928.24	4915.36	4895.47	4871.47	4826.99	4762.03	4637.38
180.0	4915.95	4911.27	4907.17	4888.44	4848.06	4803.59	4745.06	4650.26	4509.22
225.0	4910.68	4897.22	4862.11	4809.44	4759.11	4668.40	4547.84	4409.14	4211.34
270.0	4920.63	4909.51	4871.47	4841.62	4794.22	4716.97	4618.07	4504.54	4317.85
315.0	4911.85	4884.35	4839.28	4779.01	4712.29	4628.60	4482.30	4343.01	4188.51
360.0	4915.95	4903.07	4879.66	4828.16	4784.27	4730.43	4623.92	4510.97	4385.73
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4195.54	4018.21	3824.50	3624.36	3359.25	3132.77	2913.89	2690.34	2418.79
45.0	4525.60	4362.33	4202.56	3976.66	3836.79	3569.93	3352.81	3075.42	2848.93
90.0	4379.88	4213.68	4031.09	3837.96	3578.71	3368.03	3085.36	2864.73	2645.86
135.0	4523.26	4385.15	4215.43	3982.51	3784.71	3523.11	3300.73	3072.49	2788.66
180.0	4364.67	4201.97	3969.05	3767.74	3552.37	3274.98	3042.64	2814.41	2542.28
225.0	4039.28	3847.91	3598.02	3380.90	3157.35	2874.68	2658.74	2438.11	2225.67
270.0	4170.37	3987.20	3799.92	3557.06	3349.89	3125.16	2908.04	2637.67	2425.82
315.0	4016.46	3784.71	3588.07	3383.24	3173.15	2899.26	2682.73	2463.86	2203.43
360.0	4195.54	4018.21	3824.50	3624.36	3359.25	3132.77	2913.89	2690.34	2418.79
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2215.14	2022.60	1792.02	1620.55	1301.01	1150.03	1150.03	1047.32	918.51
45.0	2632.40	2368.46	2166.56	1974.61	1744.03	1566.71	1405.18	1266.49	1128.37
90.0	2384.85	2178.27	1982.22	1792.60	1567.29	1309.21	1164.25	1164.25	1028.01
135.0	2564.51	2355.00	2149.59	1916.09	1734.08	1563.78	1412.21	1249.51	1134.22
180.0	2328.08	2119.16	1919.60	1690.19	1519.30	1367.14	1239.57	1106.13	1009.57
225.0	1975.19	1787.92	1609.43	1440.30	1152.48	1152.48	1027.83	925.01	817.15
270.0	2222.74	1979.87	1782.65	1557.93	1392.31	1261.80	1152.95	1022.45	907.74
315.0	2005.62	1825.38	1601.82	1433.27	1143.00	1143.00	1039.71	931.09	793.45
360.0	2215.14	2022.60	1792.02	1620.55	1301.01	1150.03	1150.03	1047.32	918.51
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	811.41	702.50	596.64	468.12	372.38	286.18	214.48	149.06	120.09
45.0	1022.45	908.33	794.79	662.53	562.46	468.24	355.29	313.15	313.15
90.0	916.17	799.30	665.17	567.73	475.55	365.18	282.37	209.33	144.90
135.0	1030.64	890.19	778.41	647.90	548.41	455.95	345.34	304.38	304.38
180.0	910.08	783.67	683.02	541.98	444.24	347.10	302.03	302.03	136.30
225.0	684.60	583.76	487.79	394.79	287.29	212.55	155.08	121.79	104.05
270.0	791.87	688.28	568.90	469.99	382.80	300.28	300.28	145.37	118.33
315.0	687.52	587.68	489.95	375.13	292.09	216.94	159.65	120.73	107.62
360.0	811.41	702.50	596.64	468.12	372.38	286.18	214.48	149.06	120.09
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	105.69	93.40	84.92	75.96	69.88	64.37	59.58	54.31	50.50
45.0	140.86	118.57	106.22	93.40	84.62	77.13	70.52	63.44	58.64
90.0	120.26	108.38	98.20	87.37	80.23	73.68	67.83	61.39	56.94
135.0	145.14	117.05	105.63	96.09	87.96	79.24	72.98	67.18	62.27
180.0	114.00	103.47	92.58	85.15	78.42	72.39	65.43	60.45	56.06
225.0	95.04	86.67	79.47	71.51	65.72	59.34	54.89	50.91	46.64
270.0	104.05	94.63	84.21	77.13	70.58	64.78	58.52	53.96	50.15
315.0	95.63	86.96	79.42	71.05	65.25	59.99	55.48	51.44	47.23
360.0	105.69	93.40	84.92	75.96	69.88	64.37	59.58	54.31	50.50

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	47.23	44.30	41.08	38.74	36.81	34.53	32.89	31.54	29.90
45.0	54.31	50.50	46.35	43.37	40.79	37.81	35.82	33.94	31.89
90.0	52.85	48.40	45.18	41.67	39.21	36.93	34.47	32.66	31.02
135.0	56.88	52.90	48.52	45.41	42.60	39.44	37.16	35.11	33.30
180.0	51.15	47.70	44.59	41.20	38.80	36.23	34.29	32.54	30.90
225.0	43.77	41.20	38.80	36.23	34.35	32.66	31.08	29.20	27.86
270.0	46.82	43.13	40.56	38.22	35.76	33.94	32.30	30.37	28.91
315.0	44.36	41.79	38.98	36.93	35.17	33.12	31.72	30.31	28.73
360.0	47.23	44.30	41.08	38.74	36.81	34.53	32.89	31.54	29.90
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	28.62	27.45	26.04	24.87	23.76	22.59	21.59	20.66	19.90
45.0	30.43	29.09	27.45	26.39	25.22	23.88	22.88	21.89	20.83
90.0	29.44	27.68	26.39	25.16	23.94	22.65	21.65	20.60	19.55
135.0	31.25	29.73	28.32	27.10	25.52	24.35	23.29	21.89	20.89
180.0	28.97	27.56	26.34	25.05	23.76	22.53	21.54	20.25	19.37
225.0	26.63	25.11	23.94	22.88	21.65	20.66	19.78	18.84	18.08
270.0	27.62	26.10	24.93	23.76	22.53	21.54	20.60	19.78	18.90
315.0	27.56	26.45	25.05	23.99	23.06	22.18	21.01	20.25	19.55
360.0	28.62	27.45	26.04	24.87	23.76	22.59	21.59	20.66	19.90
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	18.96	18.26	17.67	17.26	17.79	19.02	21.24	23.00	23.99
45.0	19.96	19.02	18.32	17.44	16.85	16.33	15.74	15.10	14.69
90.0	18.79	18.02	17.21	16.62	16.09	15.39	14.92	14.57	14.16
135.0	20.01	19.25	18.38	17.56	16.97	16.44	15.92	15.39	15.10
180.0	18.67	17.73	17.03	16.44	15.86	15.33	15.04	15.45	16.15
225.0	17.38	16.62	16.09	15.51	15.04	14.51	14.16	13.69	13.34
270.0	18.20	17.56	17.09	16.50	16.15	15.74	15.51	15.22	15.22
315.0	18.79	18.08	17.56	17.09	16.44	16.27	16.85	17.85	19.61
360.0	18.96	18.26	17.67	17.26	17.79	19.02	21.24	23.00	23.99
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	23.88	23.53	23.35	23.06	22.00	21.54	20.42	19.37	16.27
45.0	14.22	13.69	13.34	13.05	12.64	12.29	11.94	11.59	11.29
90.0	13.75	13.58	13.58	13.64	13.75	13.46	13.34	12.64	12.00
135.0	15.33	16.09	17.26	17.91	17.97	17.26	15.63	14.75	12.93
180.0	16.62	16.74	16.44	16.21	16.09	15.45	15.16	14.34	11.94
225.0	12.93	12.64	12.17	11.94	11.65	11.29	11.00	10.77	10.53
270.0	15.33	15.45	15.57	15.57	15.16	14.92	14.28	13.11	11.53
315.0	21.42	22.12	22.30	22.24	21.19	19.66	17.91	14.98	12.87
360.0	23.88	23.53	23.35	23.06	22.00	21.54	20.42	19.37	16.27
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	12.82	10.42	10.12	9.89	9.66	9.42	8.95	8.72	8.49
45.0	11.00	10.71	10.42	10.18	9.89	9.60	9.19	8.90	8.66
90.0	10.94	10.36	10.07	9.83	9.48	9.13	8.95	8.78	8.72
135.0	11.35	10.83	10.48	10.18	9.77	9.42	9.13	8.95	8.78
180.0	10.42	10.12	9.83	9.60	9.31	9.01	8.84	8.78	8.49
225.0	10.30	10.07	9.95	9.42	8.95	8.72	8.66	8.37	8.54
270.0	10.65	10.36	10.12	9.95	10.01	9.13	8.72	8.60	8.60
315.0	11.00	10.42	10.12	9.95	10.01	9.25	8.84	8.54	8.60
360.0	12.82	10.42	10.12	9.89	9.66	9.42	8.95	8.72	8.49

Intensity data(cd)

C/γ(°)	90.0
0.0	8.49
45.0	8.60
90.0	8.49
135.0	8.60
180.0	8.60
225.0	8.49
270.0	8.54
315.0	8.60
360.0	8.49