



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

Nata

Client:

LumCAT: 2-2756-L

Luminaire: 92.70.411.00

Report No: 2024902-B014

Ballast type: AC

Test No: 2024902-C014

Voltage(V): 36.590

LampCAT: LUMILEDS LUXEON CoB 1208 Current(A): 0.897

Lamp flux(lm): 4053.0 Power (W): 32.840

Number of Lamps: 1 PF: 0.000

Length(mm): 0 Width(mm): 0

Phm Type: C Height(mm): 0

Photometric Results

Lumens(lm): 3747.72, Efficiency(%): 92.47% , Luminous Efficacy(lm/W): 114.12

Central intensity(cd): 7904.625, Maximum intensity(cd): 7904.625

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=38.0

[C90/270]Total=38.0

Field angle(10%Imax): [C0/180]Total=68.2

[C90/270]Total=68.2

Maximum s/h(1/2): C0_180=0.61 C90_270=0.61

Maximum s/h(1/4): C0_180=0.64 C90_270=0.64

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 92.47%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 99.416%

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/9/2
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	7904.625	0.000	0	0.00%	0.00%
1.0	7890.696	7.558	7.558	0.19%	0.20%
2.0	7852.654	22.596	30.154	0.56%	0.80%
3.0	7780.163	37.389	67.543	0.92%	1.80%
4.0	7685.800	51.770	119.312	1.28%	3.18%
5.0	7550.551	65.546	184.858	1.62%	4.93%
6.0	7404.499	78.593	263.451	1.94%	7.03%
7.0	7219.729	90.772	354.223	2.24%	9.45%
8.0	6993.178	101.719	455.942	2.51%	12.17%
9.0	6762.028	111.478	567.421	2.75%	15.14%
10.0	6500.713	120.023	687.444	2.96%	18.34%
11.0	6229.799	127.204	814.648	3.14%	21.74%
12.0	5946.685	133.106	947.754	3.28%	25.29%
13.0	5679.733	137.976	1085.73	3.40%	28.97%
14.0	5387.499	141.660	1227.39	3.50%	32.75%
15.0	5086.355	143.790	1371.18	3.55%	36.59%
16.0	4810.421	145.015	1516.195	3.58%	40.46%
17.0	4516.656	145.248	1661.443	3.58%	44.33%
18.0	4233.896	144.278	1805.72	3.56%	48.18%
19.0	3945.210	142.300	1948.02	3.51%	51.98%
20.0	3666.707	139.319	2087.339	3.44%	55.70%
21.0	3399.545	135.686	2223.026	3.35%	59.32%
22.0	3141.155	131.438	2354.464	3.24%	62.82%
23.0	2894.959	126.654	2481.118	3.12%	66.20%
24.0	2661.509	121.484	2602.602	3.00%	69.44%
25.0	2468.953	116.655	2719.258	2.88%	72.56%
26.0	2276.725	112.022	2831.28	2.76%	75.55%
27.0	2086.804	106.755	2938.035	2.63%	78.40%
28.0	1914.924	101.315	3039.35	2.50%	81.10%
29.0	1676.928	93.973	3133.323	2.32%	83.61%
30.0	1512.263	86.107	3219.43	2.12%	85.90%
31.0	1302.479	78.330	3297.76	1.93%	87.99%
32.0	1108.852	69.082	3366.842	1.70%	89.84%
33.0	969.042	61.216	3428.058	1.51%	91.47%
34.0	806.328	53.728	3481.786	1.33%	92.90%
35.0	654.140	45.357	3527.142	1.12%	94.11%
36.0	513.549	37.179	3564.322	0.92%	95.11%
37.0	385.934	29.336	3593.658	0.72%	95.89%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	305.986	23.095	3616.753	0.57%	96.51%
39.0	232.307	18.373	3635.127	0.45%	97.00%
40.0	164.724	13.847	3648.974	0.34%	97.37%
41.0	130.598	10.516	3659.49	0.26%	97.65%
42.0	94.698	8.185	3667.675	0.20%	97.86%
43.0	80.920	6.505	3674.181	0.16%	98.04%
44.0	70.697	5.722	3679.903	0.14%	98.19%
45.0	63.239	5.147	3685.051	0.13%	98.33%
46.0	55.848	4.657	3689.708	0.11%	98.45%
47.0	49.980	4.209	3693.917	0.10%	98.56%
48.0	44.520	3.820	3697.737	0.09%	98.67%
49.0	40.020	3.472	3701.209	0.09%	98.76%
50.0	35.808	3.162	3704.37	0.08%	98.84%
51.0	32.503	2.890	3707.26	0.07%	98.92%
52.0	29.744	2.671	3709.932	0.07%	98.99%
53.0	27.195	2.477	3712.408	0.06%	99.06%
54.0	25.085	2.304	3714.713	0.06%	99.12%
55.0	23.082	2.150	3716.863	0.05%	99.18%
56.0	21.452	2.012	3718.875	0.05%	99.23%
57.0	20.059	1.898	3720.773	0.05%	99.28%
58.0	18.535	1.785	3722.558	0.04%	99.33%
59.0	17.457	1.683	3724.24	0.04%	99.37%
60.0	16.373	1.598	3725.839	0.04%	99.42%
61.0	15.401	1.516	3727.355	0.04%	99.46%
62.0	14.481	1.440	3728.795	0.04%	99.49%
63.0	13.673	1.369	3730.164	0.03%	99.53%
64.0	12.865	1.302	3731.466	0.03%	99.57%
65.0	12.070	1.234	3732.7	0.03%	99.60%
66.0	11.465	1.174	3733.875	0.03%	99.63%
67.0	10.834	1.121	3734.996	0.03%	99.66%
68.0	10.210	1.066	3736.062	0.03%	99.69%
69.0	9.626	1.012	3737.074	0.02%	99.72%
70.0	9.120	0.963	3738.037	0.02%	99.74%
71.0	8.581	0.915	3738.951	0.02%	99.77%
72.0	8.055	0.865	3739.816	0.02%	99.79%
73.0	7.556	0.816	3740.633	0.02%	99.81%
74.0	7.096	0.770	3741.403	0.02%	99.83%
75.0	6.636	0.726	3742.129	0.02%	99.85%

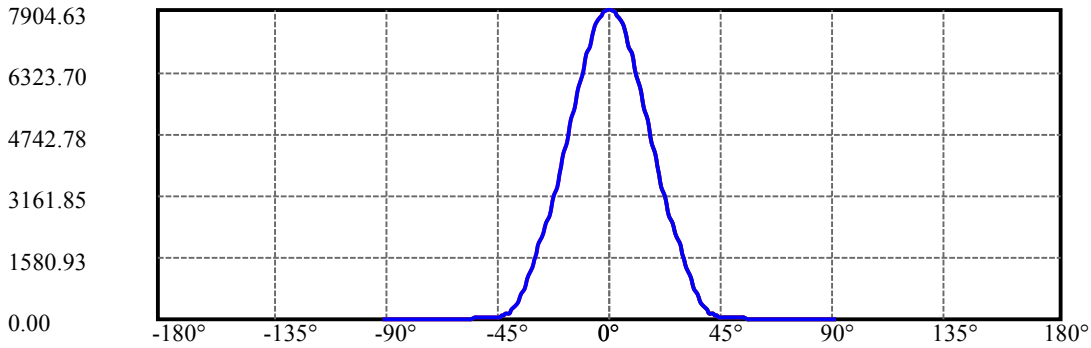
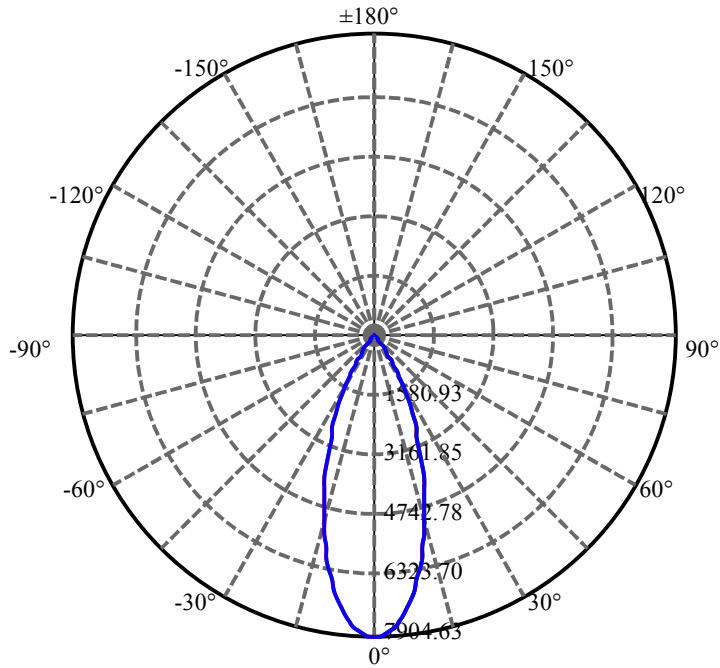
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	6.183	0.680	3742.809	0.02%	99.87%
77.0	5.677	0.632	3743.441	0.02%	99.89%
78.0	5.256	0.585	3744.027	0.01%	99.90%
79.0	4.744	0.537	3744.564	0.01%	99.92%
80.0	4.304	0.488	3745.052	0.01%	99.93%
81.0	3.863	0.442	3745.493	0.01%	99.94%
82.0	3.430	0.395	3745.889	0.01%	99.95%
83.0	3.035	0.351	3746.24	0.01%	99.96%
84.0	2.668	0.311	3746.551	0.01%	99.97%
85.0	2.326	0.273	3746.824	0.01%	99.98%
86.0	2.070	0.240	3747.064	0.01%	99.98%
87.0	1.741	0.209	3747.272	0.01%	99.99%
88.0	1.452	0.175	3747.447	0.00%	99.99%
89.0	1.229	0.147	3747.594	0.00%	100.00%
90.0	1.117	0.129	3747.723	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	3219.43	79.43%	85.90%
0-40	3648.97	90.03%	97.37%
0-60	3725.84	91.93%	99.42%
0-90	3747.59	92.46%	100.00%
0-120	3747.59	92.46%	100.00%
0-180	3747.72	92.47%	100.00%
60-90	21.76	0.54%	0.58%
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%
0-27.59	2998.18	73.97%	80.00%

ZONAL LUMEN SUMMARY

0-10	687.44
10-20	1399.90
20-30	1132.09
30-40	429.54
40-50	55.40
50-60	21.47
60-70	12.20
70-80	7.02
80-90	2.54
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: ———

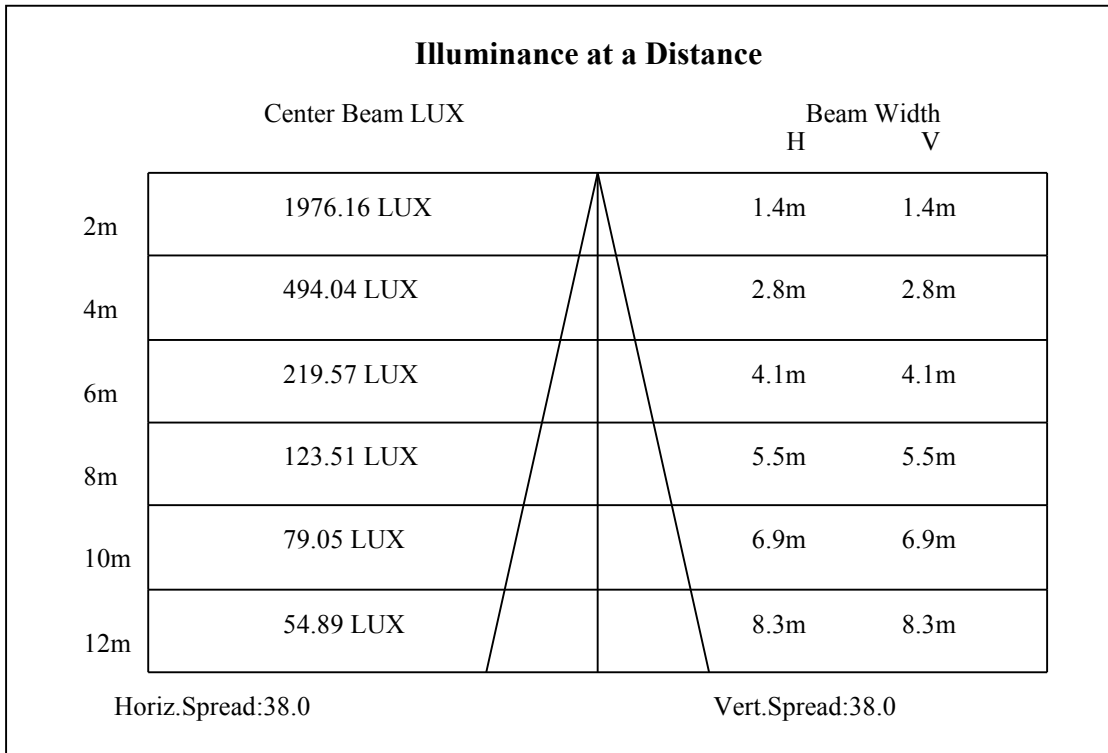
C90/C270: ———

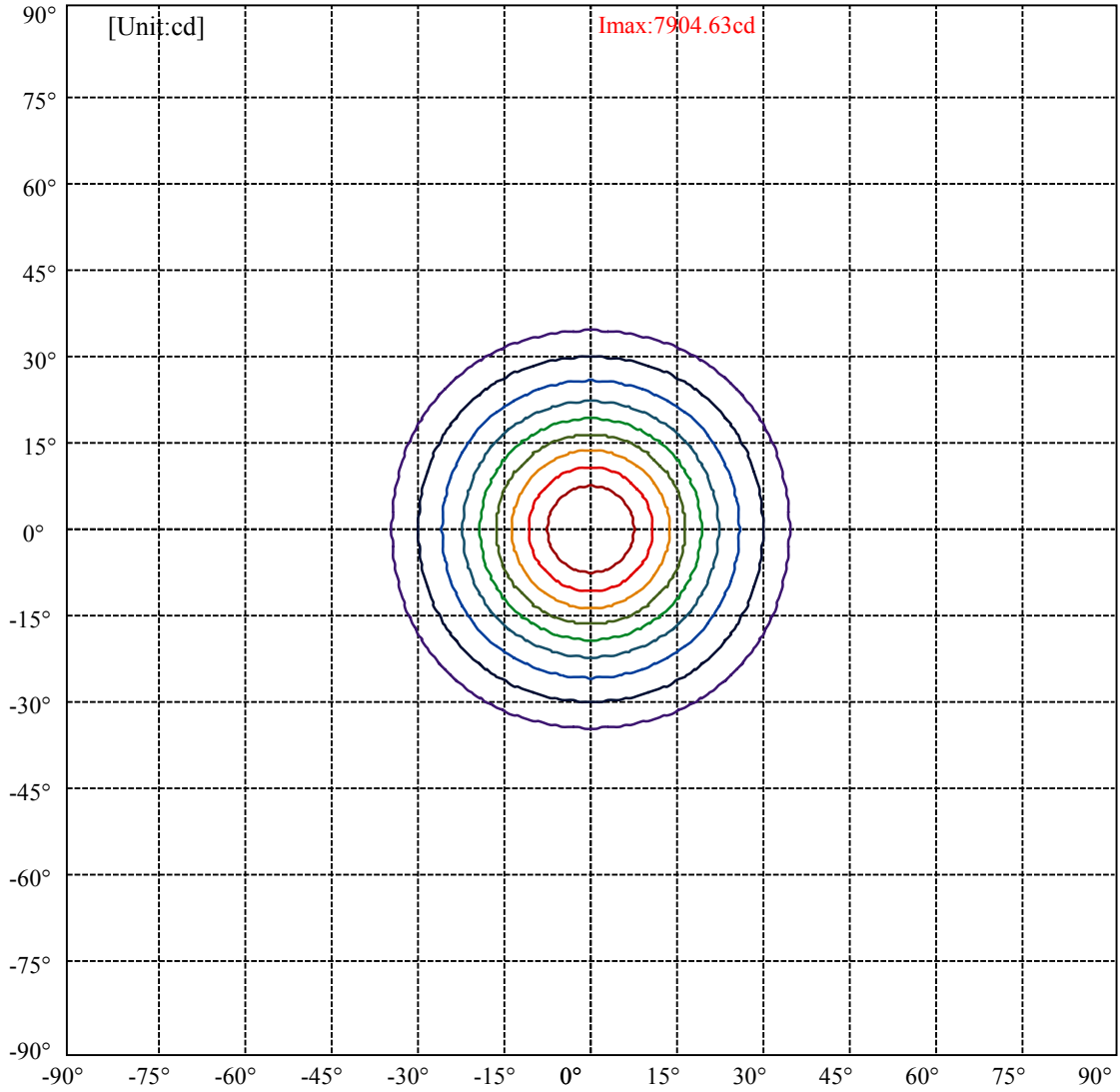
Field angle(10%Imax):C0/180Left:34.1 Right:34.1

:C90/270Left:34.1 Right:34.1

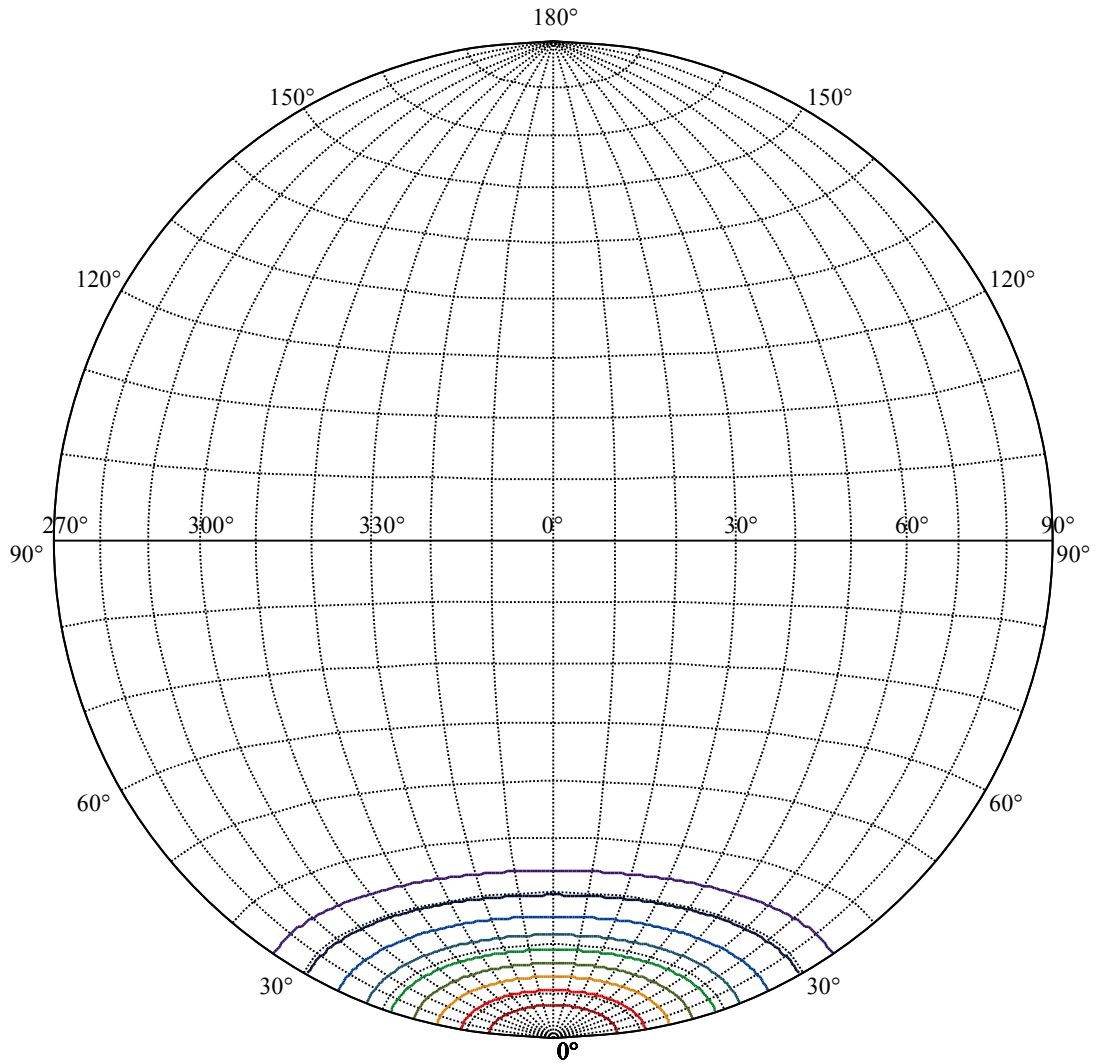
Beam Angle(50%Imax):C0/180Left:19.0 Right:19.0

:C90/270Left:19.0 Right:19.0





(10%Imax) 790.463	—
(20%Imax) 1580.93	—
(30%Imax) 2371.39	—
(40%Imax) 3161.85	—
(50%Imax) 3952.31	—
(60%Imax) 4742.77	—
(70%Imax) 5533.24	—
(80%Imax) 6323.7	—
(90%Imax) 7114.16	—



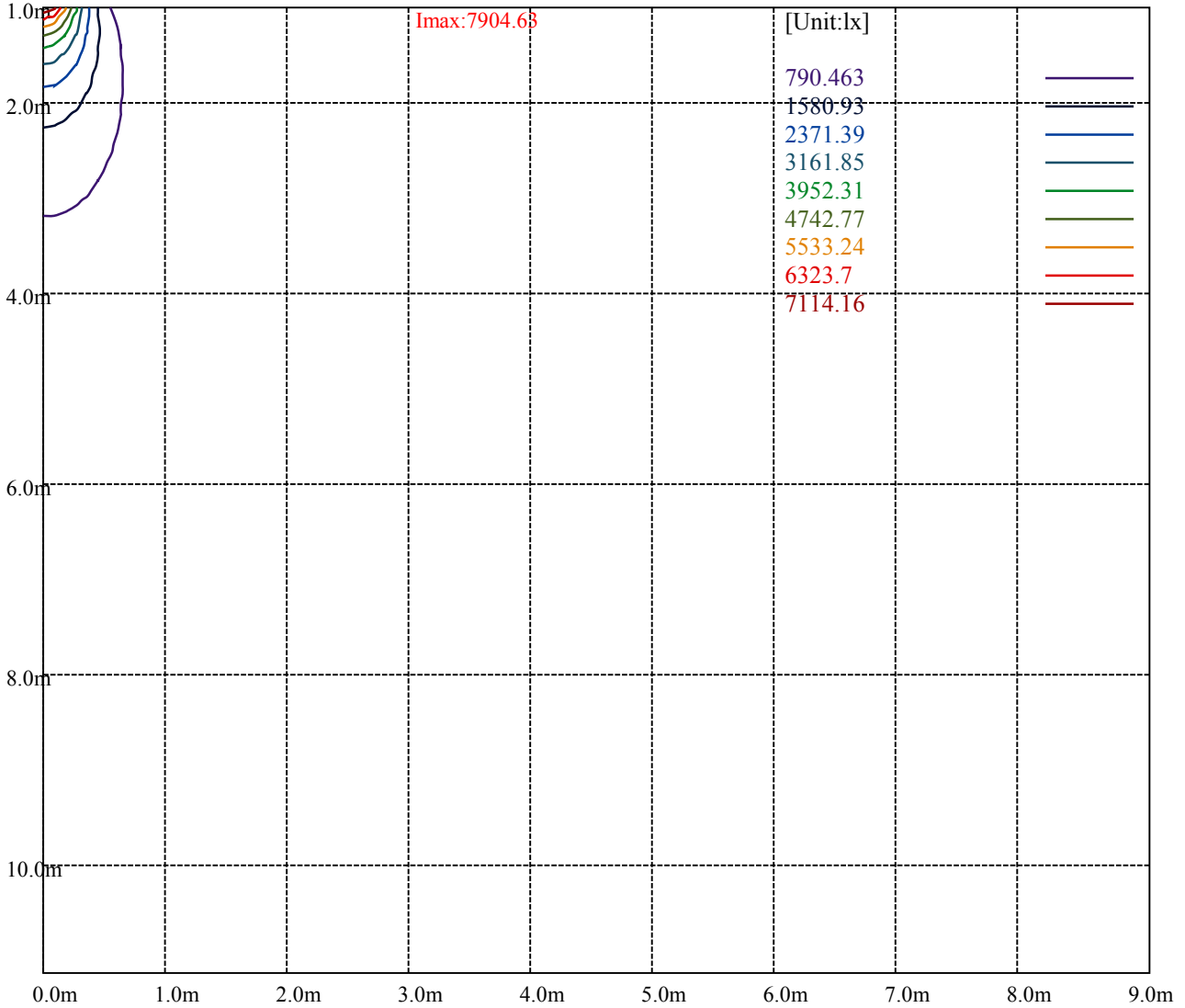
House

[Unit:cd]

Road

Imax:7904.63

(10%Imax)	790.463	—
(20%Imax)	1580.93	—
(30%Imax)	2371.39	—
(40%Imax)	3161.85	—
(50%Imax)	3952.31	—
(60%Imax)	4742.77	—
(70%Imax)	5533.24	—
(80%Imax)	6323.7	—
(90%Imax)	7114.16	—



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

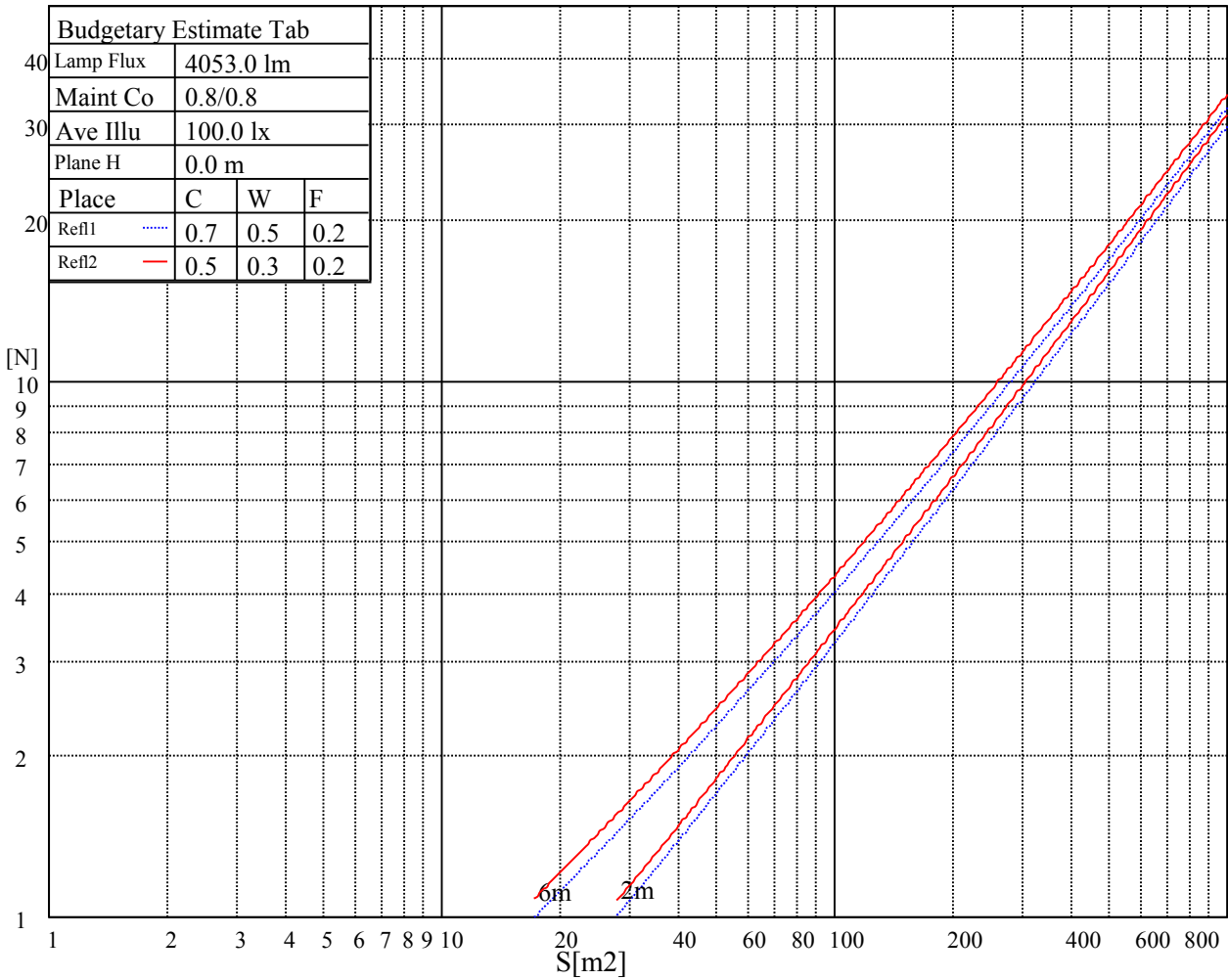
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

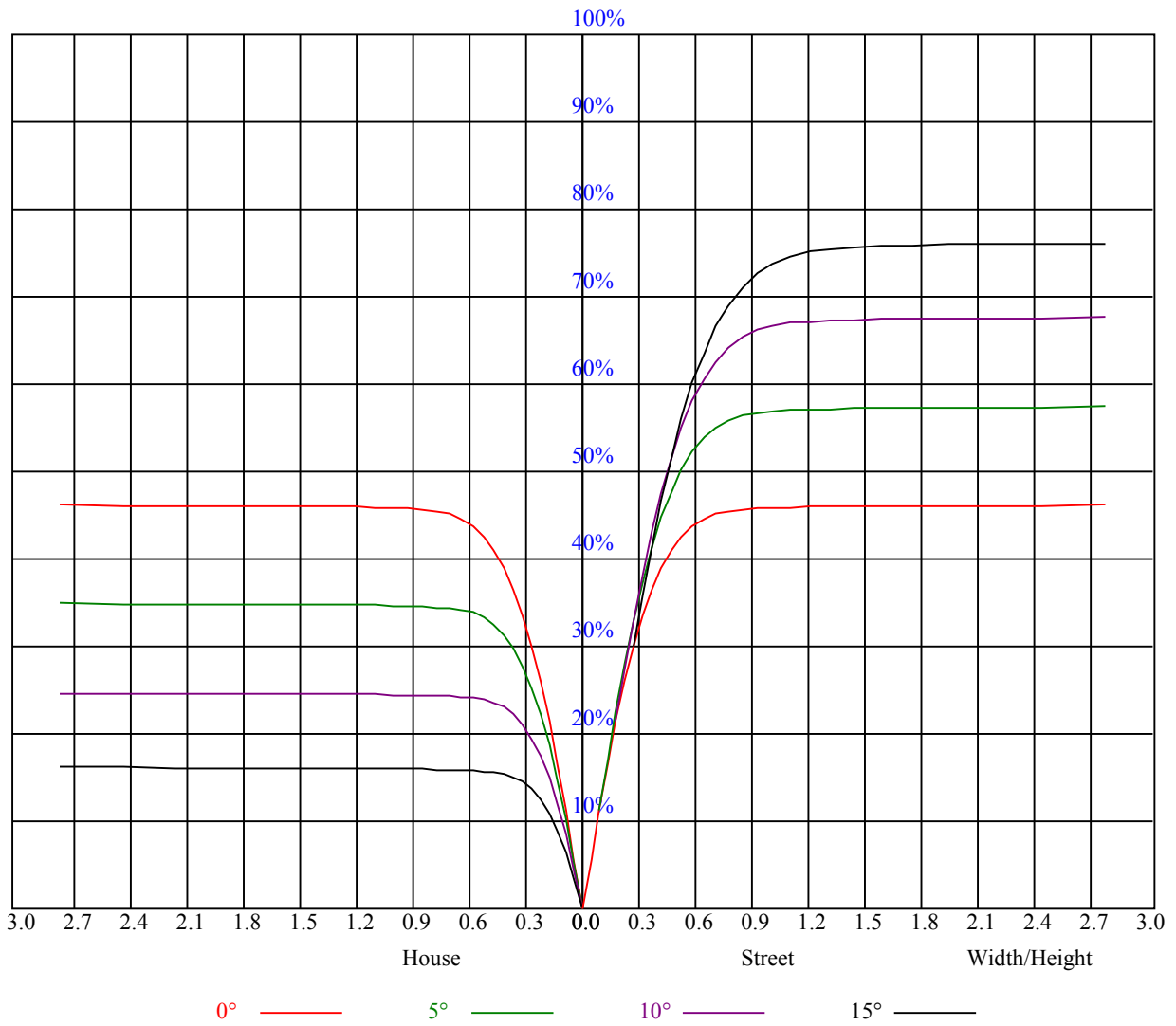


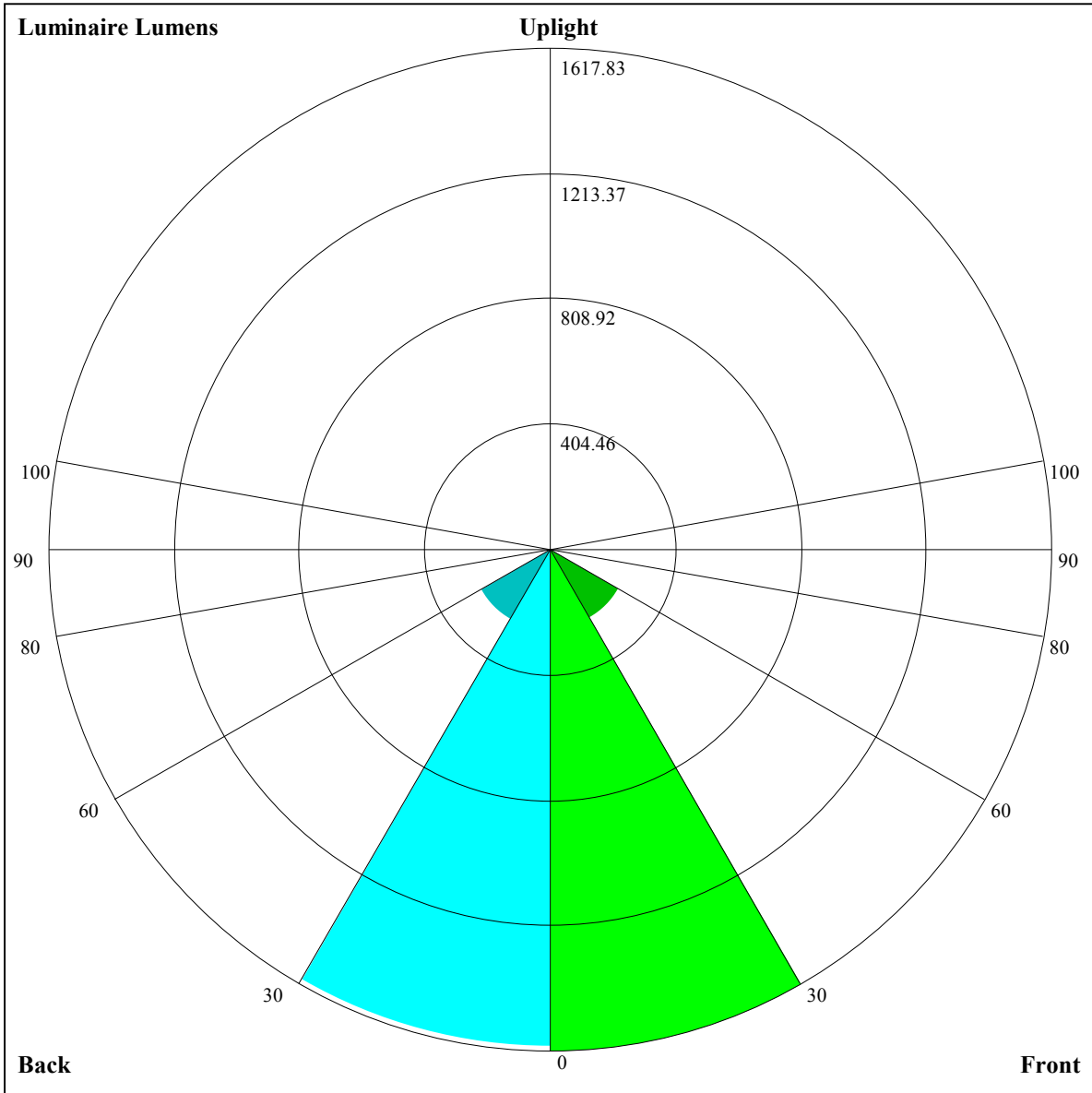
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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	1.10	1.10	1.10	1.08	1.08	1.08	1.03	1.03	1.03	0.98	0.98	0.98	0.94	0.94	0.94	0.92
1	1.03	1.01	0.99	1.01	0.99	0.98	0.98	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88
2	0.97	0.94	0.91	0.96	0.93	0.90	0.93	0.90	0.88	0.90	0.88	0.86	0.87	0.86	0.84	0.83
3	0.92	0.88	0.85	0.90	0.87	0.84	0.88	0.85	0.83	0.86	0.83	0.81	0.84	0.82	0.80	0.79
4	0.87	0.82	0.79	0.86	0.82	0.79	0.84	0.80	0.78	0.82	0.79	0.77	0.80	0.78	0.76	0.75
5	0.82	0.78	0.74	0.82	0.77	0.74	0.80	0.76	0.73	0.79	0.75	0.73	0.77	0.74	0.72	0.71
6	0.78	0.74	0.70	0.78	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.69	0.74	0.71	0.69	0.67
7	0.75	0.70	0.67	0.74	0.70	0.66	0.73	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.65	0.64
8	0.71	0.67	0.63	0.71	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.62	0.61
9	0.68	0.64	0.60	0.68	0.63	0.60	0.67	0.63	0.60	0.66	0.63	0.60	0.66	0.62	0.60	0.59
10	0.65	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.57	0.64	0.60	0.57	0.63	0.60	0.57	0.56





Luminaire Lumens:

FL=1617.83,FM=256.8,FH=9.59,FVH=1.36

BL=1603.48,BM=258.56,BH=9.56,BVH=1.35

UL=0,UH=0

BUG Rating:B3-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	7929.26	7906.45	7851.26	7759.91	7683.01	7492.99	7394.97	7192.18	6952.02
45.0	7909.24	7894.73	7873.55	7798.91	7693.63	7561.01	7415.57	7208.84	6992.13
90.0	7871.34	7808.37	7688.58	7553.18	7424.51	7233.39	6955.91	6762.59	6506.29
135.0	7908.66	7879.12	7841.22	7735.94	7604.48	7440.12	7254.57	7036.12	6801.59
180.0	7929.26	7906.45	7873.55	7817.31	7725.90	7609.47	7450.10	7248.42	7046.16
225.0	7909.24	7887.48	7835.65	7766.00	7653.47	7535.36	7435.07	7245.64	6930.26
270.0	7871.34	7897.52	7919.80	7911.44	7883.01	7807.27	7714.76	7605.01	7454.05
315.0	7908.66	7945.45	7937.62	7898.62	7818.41	7724.80	7615.04	7459.04	7262.93
360.0	7929.26	7906.45	7851.26	7759.91	7683.01	7492.99	7394.97	7192.18	6952.02
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	6694.62	6412.68	6120.75	5823.77	5531.78	5228.13	4931.20	4630.86	4315.54
45.0	6724.69	6471.76	6194.28	5905.66	5730.15	5438.75	5042.06	4869.34	4574.04
90.0	6243.85	5968.63	5676.12	5385.82	5111.70	4824.19	4538.40	4241.43	3952.81
135.0	6540.82	6275.59	6004.85	5726.26	5441.01	5155.17	4872.12	4586.29	4290.99
180.0	6812.73	6546.40	6278.96	5998.17	5720.11	5429.29	5149.60	4867.13	4575.72
225.0	6779.88	6516.86	6250.00	5975.31	5700.09	5400.32	5122.27	4834.23	4540.61
270.0	7261.25	7032.81	6798.80	6528.00	6259.46	5981.45	5690.57	5405.90	5126.74
315.0	7038.38	6780.98	6514.65	6230.50	5943.56	5642.69	5344.61	5048.21	4756.80
360.0	6694.62	6412.68	6120.75	5823.77	5531.78	5228.13	4931.20	4630.86	4315.54
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	4017.98	3719.90	3433.54	3170.57	2912.02	2692.51	2491.94	2369.36	2125.89
45.0	4272.07	3962.27	3670.33	3397.32	3117.06	2874.12	2637.32	2433.96	2244.52
90.0	3661.98	3386.18	3128.20	2876.90	2659.08	2451.25	2257.35	2067.39	1945.34
135.0	3990.70	3697.09	3474.22	3162.21	2961.63	2722.58	2475.22	2326.47	2145.39
180.0	4274.28	4041.37	3750.54	3470.28	3198.95	2948.81	2718.69	2512.54	2324.79
225.0	4250.89	3962.27	3668.07	3383.40	3123.74	2871.33	2640.69	2446.26	2264.60
270.0	4948.44	4645.37	4351.75	4052.52	3758.90	3475.33	3199.53	2940.45	2707.55
315.0	4454.83	4147.23	3856.98	3683.16	3397.85	3123.74	2871.33	2655.19	2455.72
360.0	4017.98	3719.90	3433.54	3170.57	2912.02	2692.51	2491.94	2369.36	2125.89
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	2015.56	1830.59	1551.43	1433.33	1045.89	1045.89	875.85	714.06	561.16
45.0	2057.35	1865.13	1659.50	1461.18	1266.70	1087.31	912.91	744.65	619.87
90.0	1657.30	1541.97	1085.68	1013.51	978.03	807.25	647.15	497.71	365.89
135.0	1962.05	1768.73	1573.14	1376.51	1182.60	1002.05	828.23	664.44	516.22
180.0	2145.39	1967.10	1786.55	1596.01	1408.78	1221.03	1045.52	877.85	713.48
225.0	2095.25	1955.96	1730.83	1573.14	1279.53	1082.10	1010.83	840.63	682.47
270.0	2500.29	2310.86	2131.99	1943.13	1749.23	1548.65	1355.32	1172.56	1000.42
315.0	2261.24	2079.06	1896.30	1701.29	1509.07	1076.53	1076.53	938.71	773.61
360.0	2015.56	1830.59	1551.43	1433.33	1045.89	1045.89	875.85	714.06	561.16
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	422.23	300.87	205.41	143.08	116.43	99.50	90.57	75.53	67.12
45.0	445.47	345.18	322.31	280.53	122.94	105.07	90.62	78.95	70.43
90.0	254.77	169.83	122.52	103.08	90.04	75.53	67.49	61.39	53.04
135.0	379.71	308.38	308.38	137.40	109.01	91.56	77.63	67.49	60.08
180.0	560.79	423.76	301.71	301.71	280.00	124.63	106.44	90.67	78.48
225.0	536.45	400.63	280.79	186.81	132.88	110.75	93.61	80.26	71.38
270.0	832.70	671.70	520.11	435.43	309.54	309.54	127.62	104.49	88.31
315.0	676.27	467.12	386.65	270.43	156.95	128.20	103.60	88.57	76.74
360.0	422.23	300.87	205.41	143.08	116.43	99.50	90.57	75.53	67.12

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	62.50	55.66	49.41	44.05	39.63	35.85	32.85	30.07	27.49
45.0	62.23	55.40	49.25	43.89	41.00	35.48	32.33	30.54	27.96
90.0	48.15	42.63	38.00	34.22	30.85	28.07	25.76	23.60	21.76
135.0	53.40	47.46	42.21	37.74	33.96	30.64	28.02	25.70	23.55
180.0	70.07	62.29	55.82	49.72	44.47	40.00	36.32	33.17	30.38
225.0	66.39	56.40	52.67	46.89	41.84	37.63	34.01	31.06	28.44
270.0	75.16	66.75	59.08	52.30	46.36	41.10	36.79	33.06	29.96
315.0	68.02	60.18	53.40	47.36	42.05	37.69	33.96	30.75	28.02
360.0	62.50	55.66	49.41	44.05	39.63	35.85	32.85	30.07	27.49
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	25.34	23.50	21.81	20.29	18.92	17.71	16.61	15.61	14.61
45.0	25.60	23.65	21.97	20.45	19.03	17.77	16.66	15.66	14.82
90.0	20.13	18.76	17.61	16.40	15.40	14.51	13.67	12.88	12.14
135.0	21.71	20.13	18.82	17.61	16.40	15.61	14.51	13.82	13.09
180.0	27.91	26.02	23.81	22.44	20.87	19.19	18.19	17.08	16.03
225.0	26.07	24.07	22.23	20.71	19.34	18.08	16.98	15.93	14.88
270.0	28.38	25.07	23.71	21.92	19.76	18.92	17.71	16.61	15.66
315.0	25.55	23.44	21.66	20.66	18.55	17.87	16.66	15.61	14.61
360.0	25.34	23.50	21.81	20.29	18.92	17.71	16.61	15.61	14.61
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	14.19	12.98	12.19	11.72	11.09	10.41	9.78	9.25	8.67
45.0	13.88	13.09	12.30	11.62	10.99	10.30	9.72	9.20	8.67
90.0	11.41	11.09	10.25	9.67	9.41	8.83	8.30	7.83	7.36
135.0	12.30	11.56	10.88	10.35	9.78	9.25	8.67	8.25	7.78
180.0	14.98	14.03	13.25	12.51	11.67	10.99	10.35	9.78	9.15
225.0	14.09	13.35	12.46	11.93	11.20	10.57	10.04	9.46	8.83
270.0	14.77	13.88	13.09	12.40	11.72	11.14	10.51	10.04	9.57
315.0	13.77	12.93	12.14	11.51	10.83	10.20	9.62	9.15	8.62
360.0	14.19	12.98	12.19	11.72	11.09	10.41	9.78	9.25	8.67
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	8.09	7.57	6.99	6.57	6.04	5.52	5.05	4.57	4.10
45.0	8.09	7.67	7.15	6.62	6.20	5.68	5.15	4.68	4.21
90.0	6.89	6.41	5.94	5.47	5.05	4.57	4.05	3.57	3.15
135.0	7.31	6.78	6.41	5.94	5.47	5.15	4.57	4.10	3.78
180.0	8.57	7.99	7.52	6.99	6.68	5.94	5.68	5.10	4.47
225.0	8.36	7.83	7.41	6.83	6.41	5.94	5.47	4.99	4.52
270.0	9.04	8.57	8.20	7.88	7.36	6.83	6.62	5.99	5.68
315.0	8.09	7.62	7.15	6.78	6.25	5.78	5.47	4.94	4.52
360.0	8.09	7.57	6.99	6.57	6.04	5.52	5.05	4.57	4.10
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	3.68	3.31	2.89	2.47	2.21	2.00	1.73	1.31	1.05
45.0	3.73	3.26	2.94	2.47	2.16	1.84	1.52	1.21	0.95
90.0	2.79	2.47	2.10	1.89	1.68	1.42	1.16	0.95	0.89
135.0	3.15	2.84	2.52	2.16	1.84	1.73	1.37	1.21	1.05
180.0	4.15	3.57	3.21	2.84	2.42	2.16	1.79	1.52	1.26
225.0	4.05	3.73	3.26	2.94	2.63	2.31	1.94	1.58	1.37
270.0	5.31	4.63	4.21	3.68	3.15	2.84	2.42	2.10	1.79
315.0	4.05	3.63	3.15	2.89	2.52	2.26	2.00	1.73	1.47
360.0	3.68	3.31	2.89	2.47	2.21	2.00	1.73	1.31	1.05

Intensity data(cd)

C/ γ (°)	90.0
0.0	1.05
45.0	1.10
90.0	0.95
135.0	1.05
180.0	0.95
225.0	1.16
270.0	1.42
315.0	1.26
360.0	1.05