



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: 2-2684-L

Luminaire: 92.70.411.00

Report No: 2024330-B015

Ballast type: AC

Test No: 2024330-C015

Voltage(V): 34.110

LampCAT: LUMILEDS LUXEON 1208

Current(A): 0.576

Lamp flux(lm): 2850.0

Power (W): 19.647

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2433.97, Efficiency(%): 85.40% , Luminous Efficacy(lm/W): 123.89

Central intensity(cd): 5610.757, Maximum intensity(cd): 5610.757

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=34.6

[C90/270]Total=34.6

Field angle(10%Imax): [C0/180]Total=64.6

[C90/270]Total=64.6

Maximum s/h(1/2): C0_180=0.56 C90_270=0.56

Maximum s/h(1/4): C0_180=0.60 C90_270=0.60

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 85.40%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.040%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/3/30
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	5610.757	0.000	0	0.00%	0.00%
1.0	5600.442	5.364	5.364	0.19%	0.22%
2.0	5559.915	16.018	21.383	0.56%	0.88%
3.0	5487.640	26.422	47.805	0.93%	1.96%
4.0	5390.932	36.414	84.219	1.28%	3.46%
5.0	5277.544	45.895	130.114	1.61%	5.35%
6.0	5145.137	54.774	184.888	1.92%	7.60%
7.0	4990.638	62.913	247.801	2.21%	10.18%
8.0	4839.138	70.350	318.151	2.47%	13.07%
9.0	4654.426	76.940	395.091	2.70%	16.23%
10.0	4468.910	82.563	477.654	2.90%	19.62%
11.0	4255.229	87.172	564.826	3.06%	23.21%
12.0	4050.840	90.797	655.623	3.19%	26.94%
13.0	3811.848	93.310	748.933	3.27%	30.77%
14.0	3576.442	94.569	843.503	3.32%	34.66%
15.0	3344.400	95.012	938.515	3.33%	38.56%
16.0	3085.877	94.222	1032.737	3.31%	42.43%
17.0	2876.439	92.849	1125.586	3.26%	46.24%
18.0	2647.104	91.071	1216.657	3.20%	49.99%
19.0	2462.393	88.895	1305.552	3.12%	53.64%
20.0	2281.119	86.819	1392.371	3.05%	57.21%
21.0	2109.795	84.314	1476.686	2.96%	60.67%
22.0	1941.396	81.410	1558.096	2.86%	64.01%
23.0	1787.263	78.237	1636.334	2.75%	67.23%
24.0	1635.250	74.828	1711.162	2.63%	70.30%
25.0	1451.680	70.190	1781.352	2.46%	73.19%
26.0	1283.318	64.560	1845.912	2.27%	75.84%
27.0	1198.380	60.715	1906.627	2.13%	78.33%
28.0	1080.106	57.686	1964.314	2.02%	80.70%
29.0	951.451	53.151	2017.465	1.86%	82.89%
30.0	824.472	47.950	2065.415	1.68%	84.86%
31.0	707.530	42.633	2108.048	1.50%	86.61%
32.0	591.421	37.213	2145.261	1.31%	88.14%
33.0	487.975	31.799	2177.061	1.12%	89.44%
34.0	409.796	27.169	2204.23	0.95%	90.56%
35.0	336.973	23.192	2227.422	0.81%	91.51%
36.0	284.785	19.797	2247.219	0.69%	92.33%
37.0	258.223	17.710	2264.929	0.62%	93.05%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	205.509	15.479	2280.407	0.54%	93.69%
39.0	162.839	12.573	2292.98	0.44%	94.21%
40.0	134.192	10.359	2303.34	0.36%	94.63%
41.0	114.185	8.845	2312.184	0.31%	95.00%
42.0	96.043	7.638	2319.822	0.27%	95.31%
43.0	83.168	6.638	2326.461	0.23%	95.58%
44.0	71.368	5.833	2332.293	0.20%	95.82%
45.0	63.504	5.183	2337.476	0.18%	96.04%
46.0	56.891	4.708	2342.185	0.17%	96.23%
47.0	51.646	4.317	2346.502	0.15%	96.41%
48.0	47.740	4.018	2350.519	0.14%	96.57%
49.0	44.206	3.776	2354.295	0.13%	96.73%
50.0	41.273	3.564	2357.859	0.13%	96.87%
51.0	38.764	3.386	2361.245	0.12%	97.01%
52.0	36.730	3.240	2364.485	0.11%	97.15%
53.0	34.770	3.110	2367.595	0.11%	97.27%
54.0	32.948	2.985	2370.58	0.10%	97.40%
55.0	31.295	2.868	2373.448	0.10%	97.51%
56.0	29.722	2.757	2376.205	0.10%	97.63%
57.0	28.354	2.655	2378.86	0.09%	97.74%
58.0	26.972	2.558	2381.419	0.09%	97.84%
59.0	25.808	2.467	2383.886	0.09%	97.94%
60.0	24.660	2.384	2386.27	0.08%	98.04%
61.0	23.592	2.303	2388.573	0.08%	98.13%
62.0	22.641	2.228	2390.801	0.08%	98.23%
63.0	21.741	2.159	2392.959	0.08%	98.32%
64.0	20.819	2.088	2395.048	0.07%	98.40%
65.0	20.073	2.024	2397.072	0.07%	98.48%
66.0	19.356	1.967	2399.039	0.07%	98.56%
67.0	18.647	1.911	2400.95	0.07%	98.64%
68.0	17.959	1.854	2402.804	0.07%	98.72%
69.0	17.410	1.804	2404.608	0.06%	98.79%
70.0	16.854	1.760	2406.368	0.06%	98.87%
71.0	16.328	1.715	2408.083	0.06%	98.94%
72.0	15.772	1.669	2409.752	0.06%	99.01%
73.0	15.311	1.625	2411.378	0.06%	99.07%
74.0	14.901	1.588	2412.966	0.06%	99.14%
75.0	14.484	1.553	2414.519	0.05%	99.20%

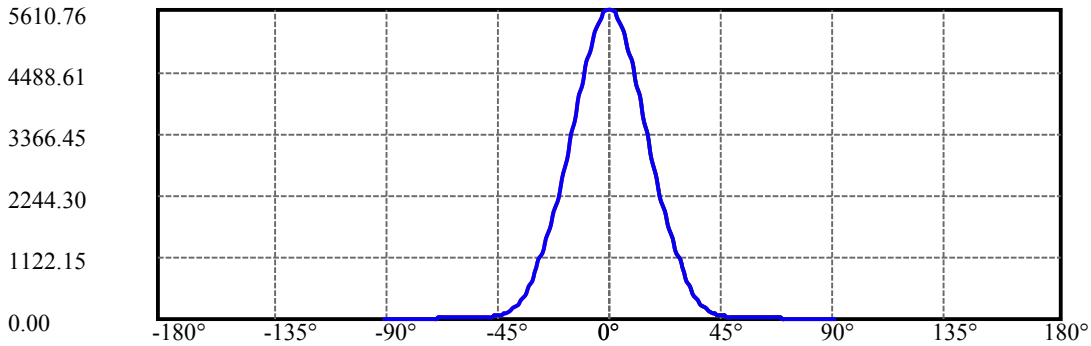
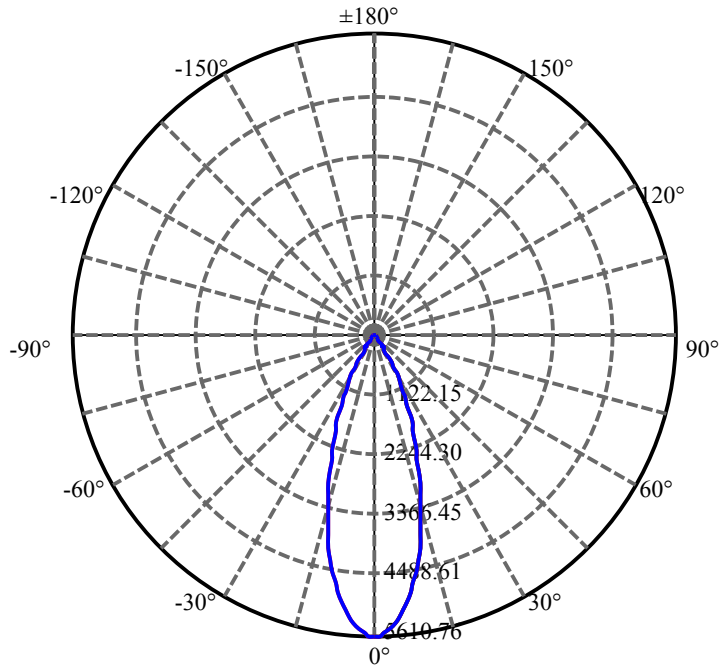
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	14.111	1.518	2416.037	0.05%	99.26%
77.0	13.753	1.486	2417.522	0.05%	99.32%
78.0	13.438	1.456	2418.978	0.05%	99.38%
79.0	13.058	1.424	2420.401	0.05%	99.44%
80.0	12.648	1.386	2421.787	0.05%	99.50%
81.0	12.363	1.353	2423.14	0.05%	99.56%
82.0	12.034	1.323	2424.463	0.05%	99.61%
83.0	11.631	1.286	2425.749	0.05%	99.66%
84.0	11.266	1.247	2426.997	0.04%	99.71%
85.0	11.010	1.216	2428.212	0.04%	99.76%
86.0	10.768	1.190	2429.403	0.04%	99.81%
87.0	10.549	1.167	2430.569	0.04%	99.86%
88.0	10.417	1.148	2431.718	0.04%	99.91%
89.0	10.212	1.131	2432.849	0.04%	99.95%
90.0	10.205	1.119	2433.968	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2065.41	72.47%	84.86%
0-40	2303.34	80.82%	94.63%
0-60	2386.27	83.73%	98.04%
0-90	2432.85	85.36%	99.95%
0-120	2432.85	85.36%	99.95%
0-180	2433.97	85.40%	100.00%
60-90	46.58	1.63%	1.91%
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%
0-27.70	1947.17	68.32%	80.00%

ZONAL LUMEN SUMMARY

0-10	477.65
10-20	914.72
20-30	673.04
30-40	237.92
40-50	54.52
50-60	28.41
60-70	20.10
70-80	15.42
80-90	11.06
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: —————

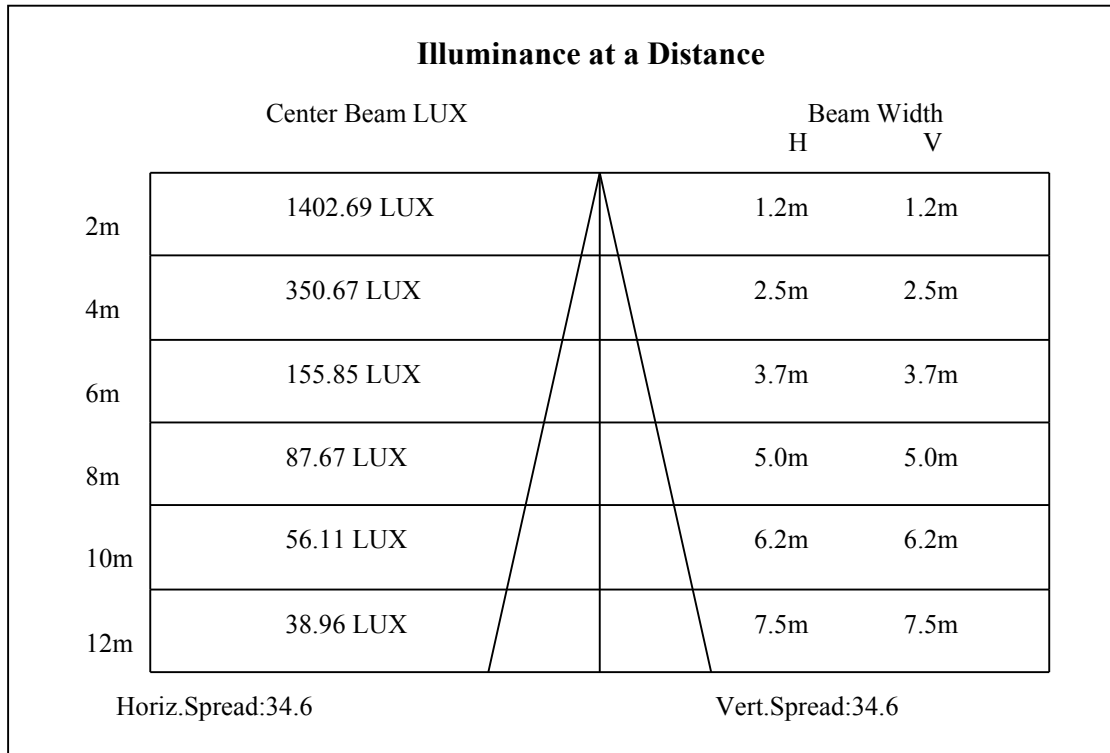
C90/C270: —————

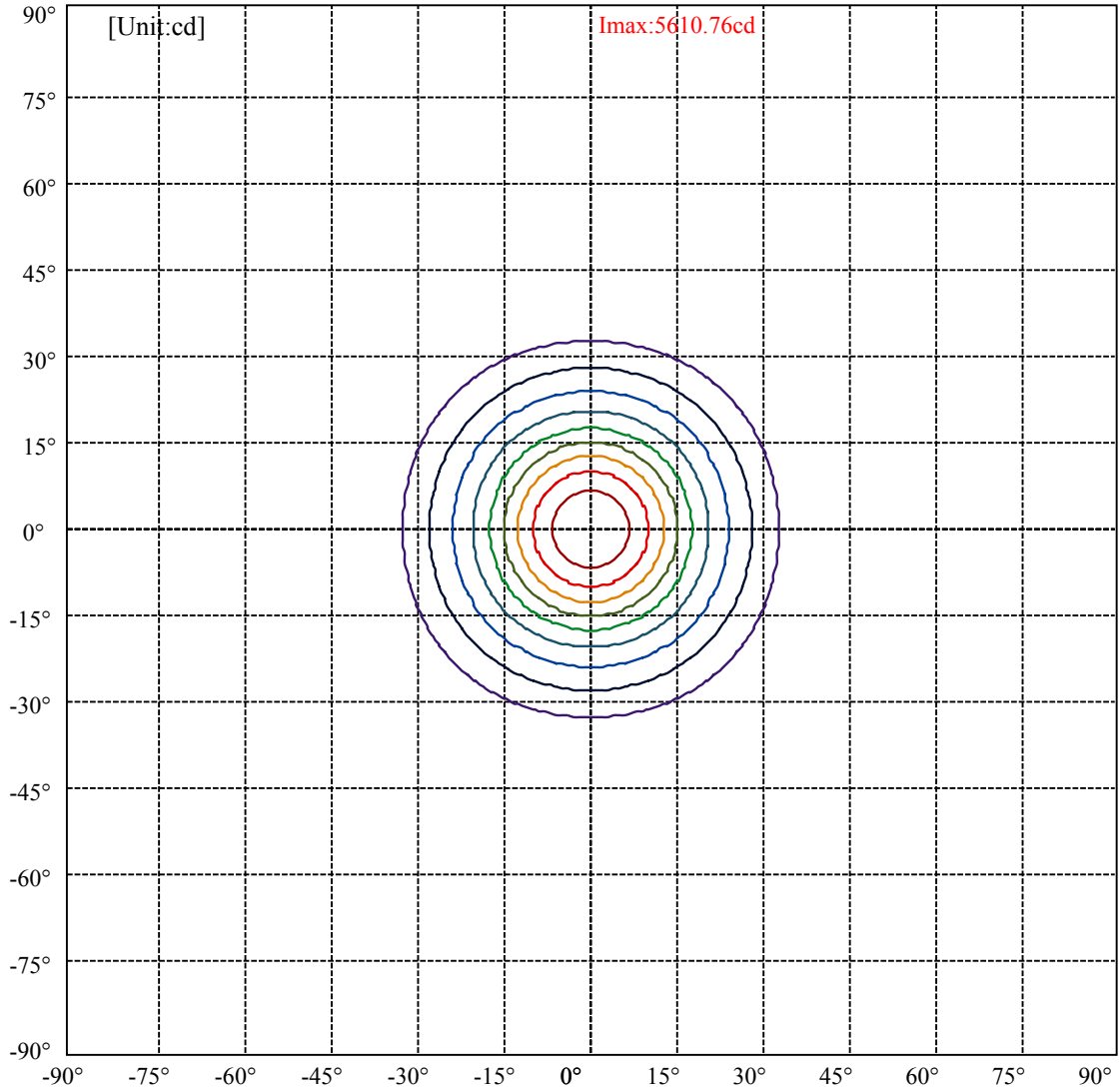
Field angle(10%Imax):C0/180Left:32.3 Right:32.3

:C90/270Left:32.3 Right:32.3

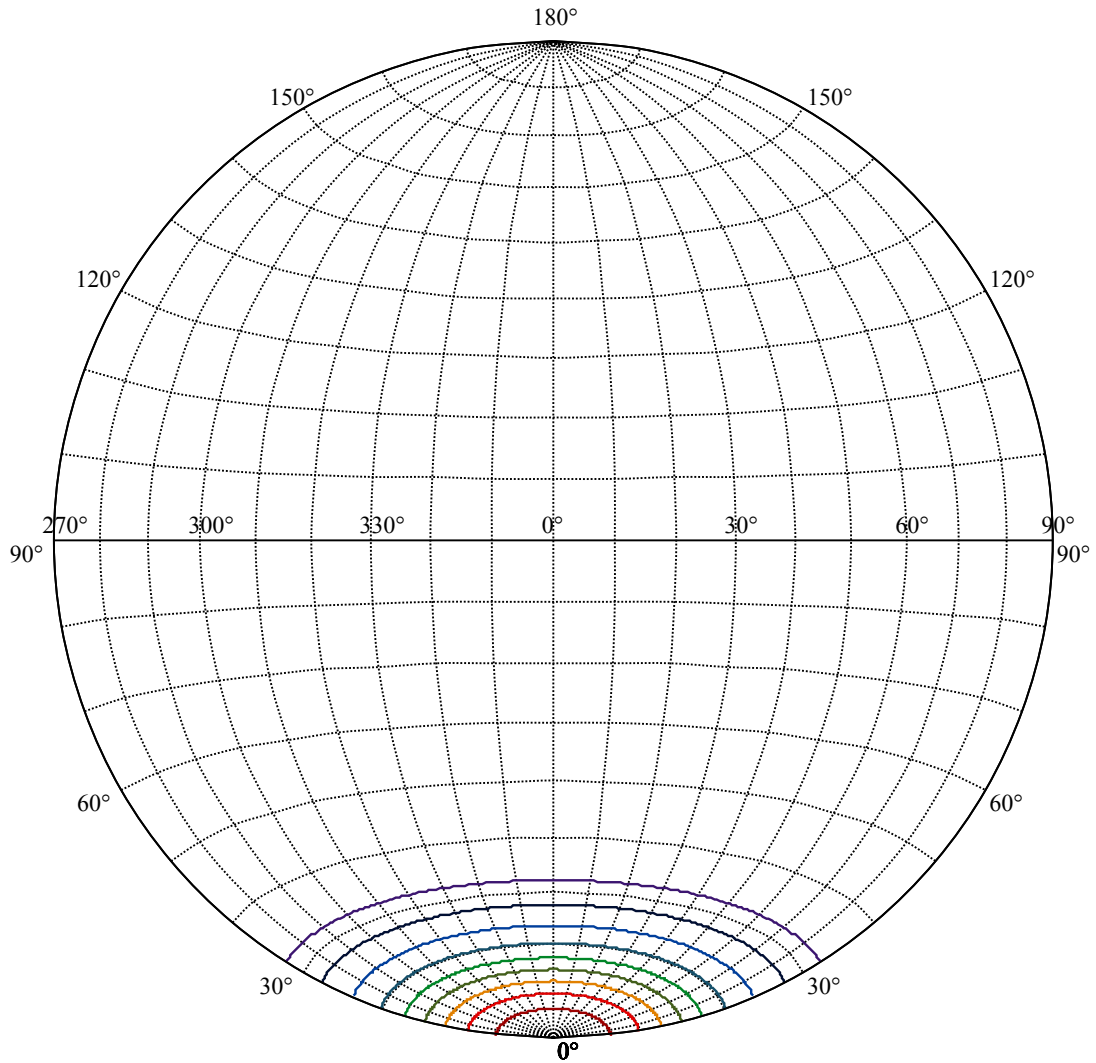
Beam Angle(50%Imax):C0/180Left:17.3 Right:17.3

:C90/270Left:17.3 Right:17.3





(10%Imax) 561.076	—
(20%Imax) 1122.15	—
(30%Imax) 1683.23	—
(40%Imax) 2244.3	—
(50%Imax) 2805.38	—
(60%Imax) 3366.45	—
(70%Imax) 3927.53	—
(80%Imax) 4488.61	—
(90%Imax) 5049.68	—



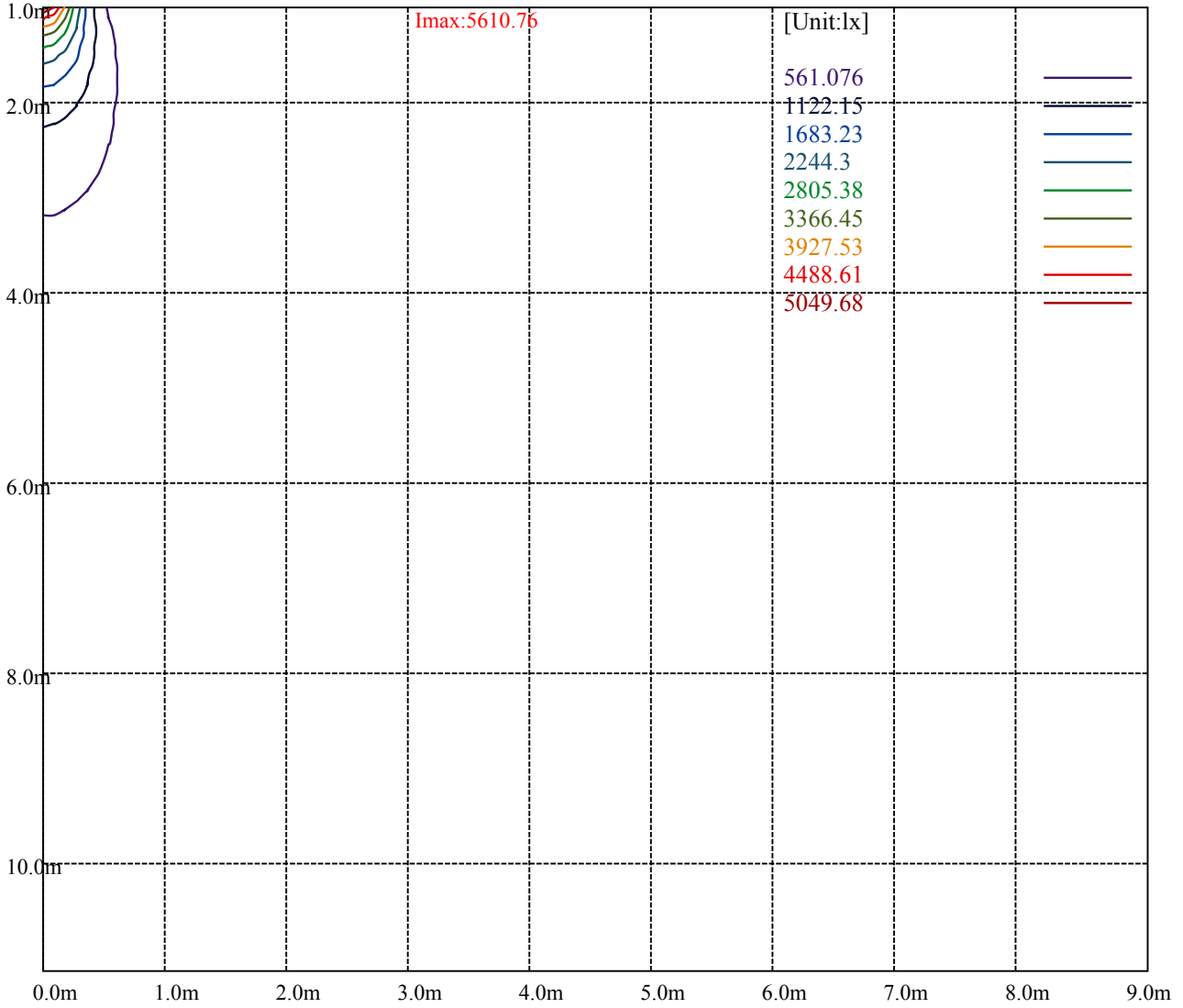
House

[Unit:cd]

Road

Imax:5610.76

(10%Imax)	561.076	—
(20%Imax)	1122.15	—
(30%Imax)	1683.23	—
(40%Imax)	2244.3	—
(50%Imax)	2805.38	—
(60%Imax)	3366.45	—
(70%Imax)	3927.53	—
(80%Imax)	4488.61	—
(90%Imax)	5049.68	—



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

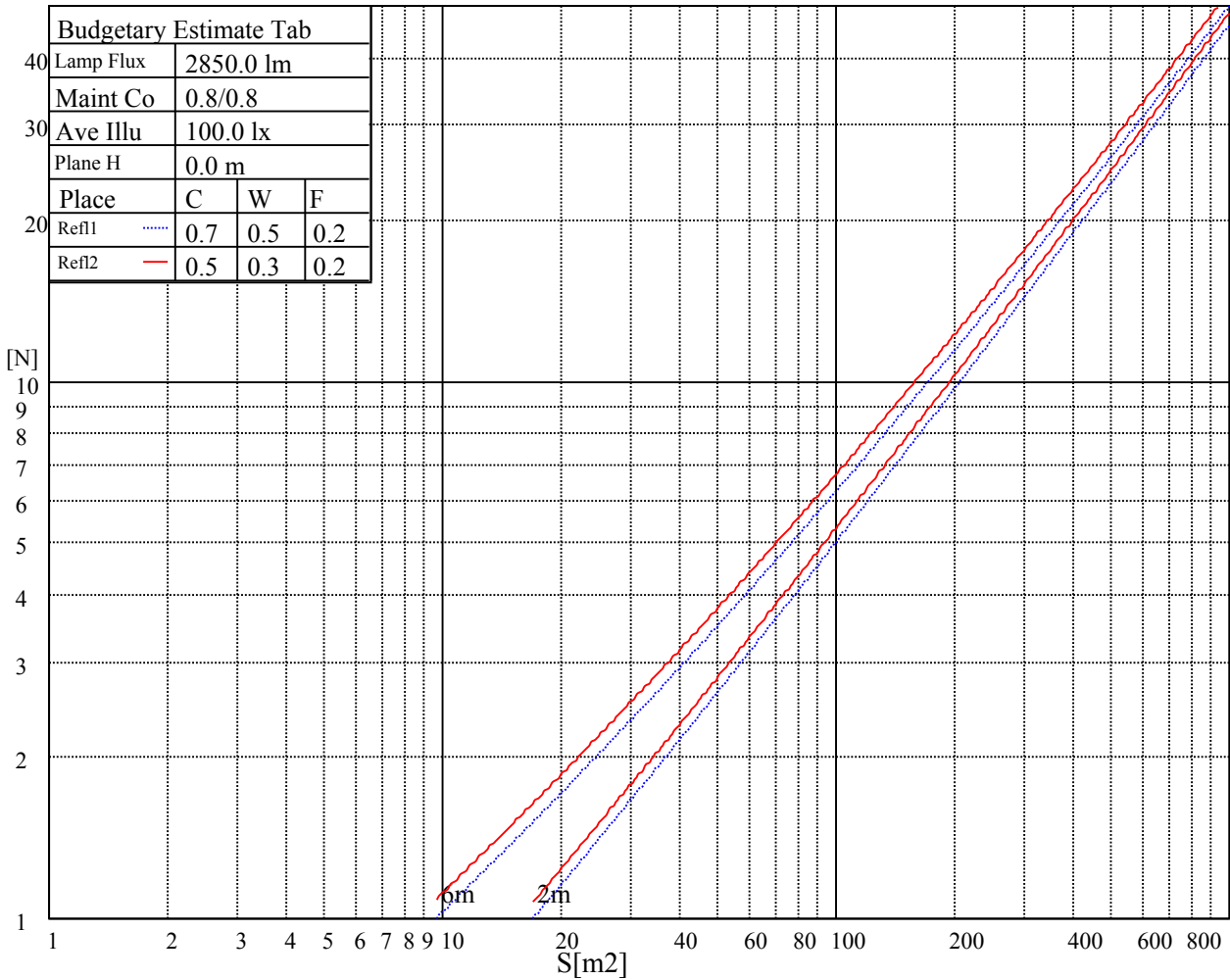
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

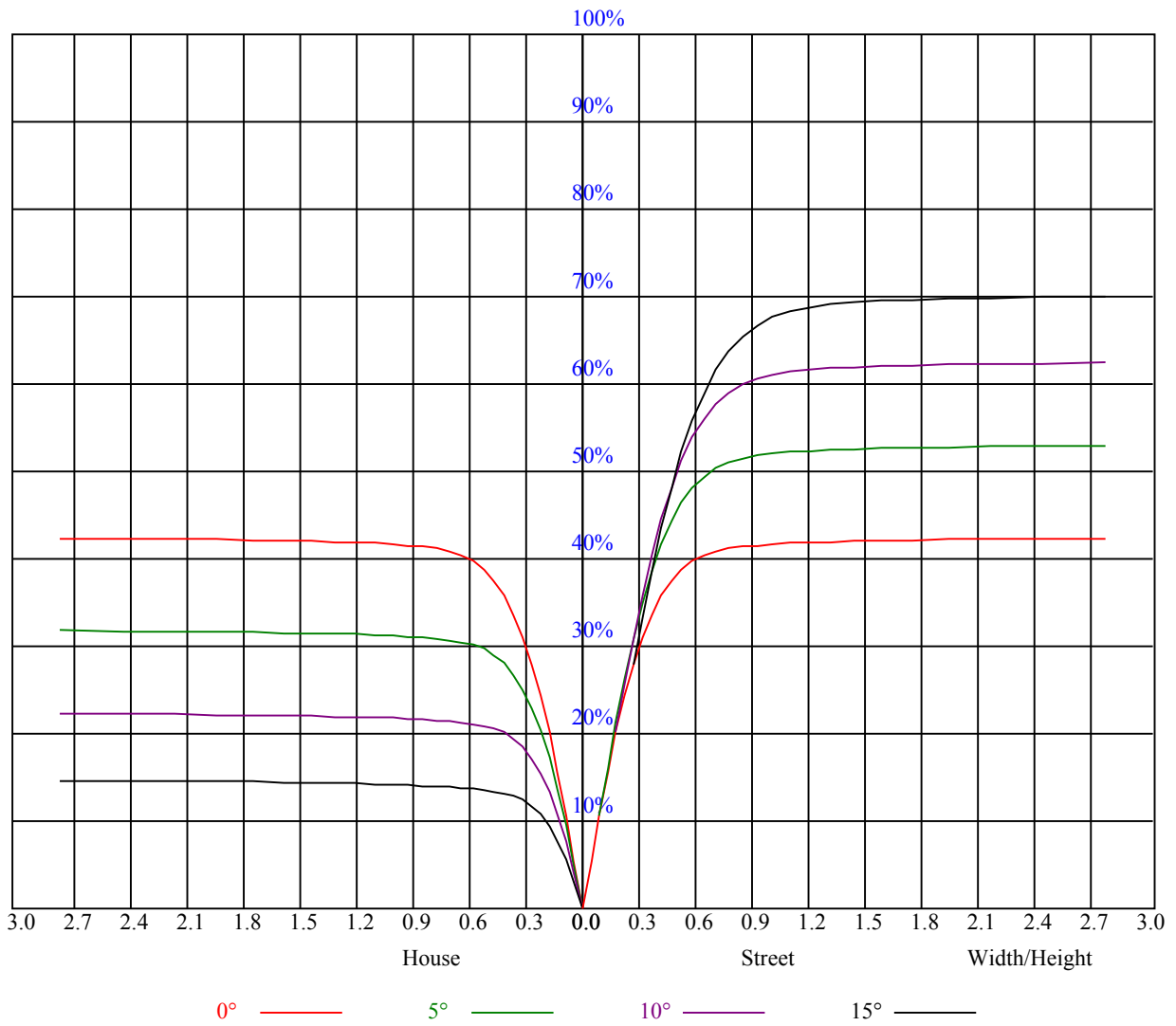


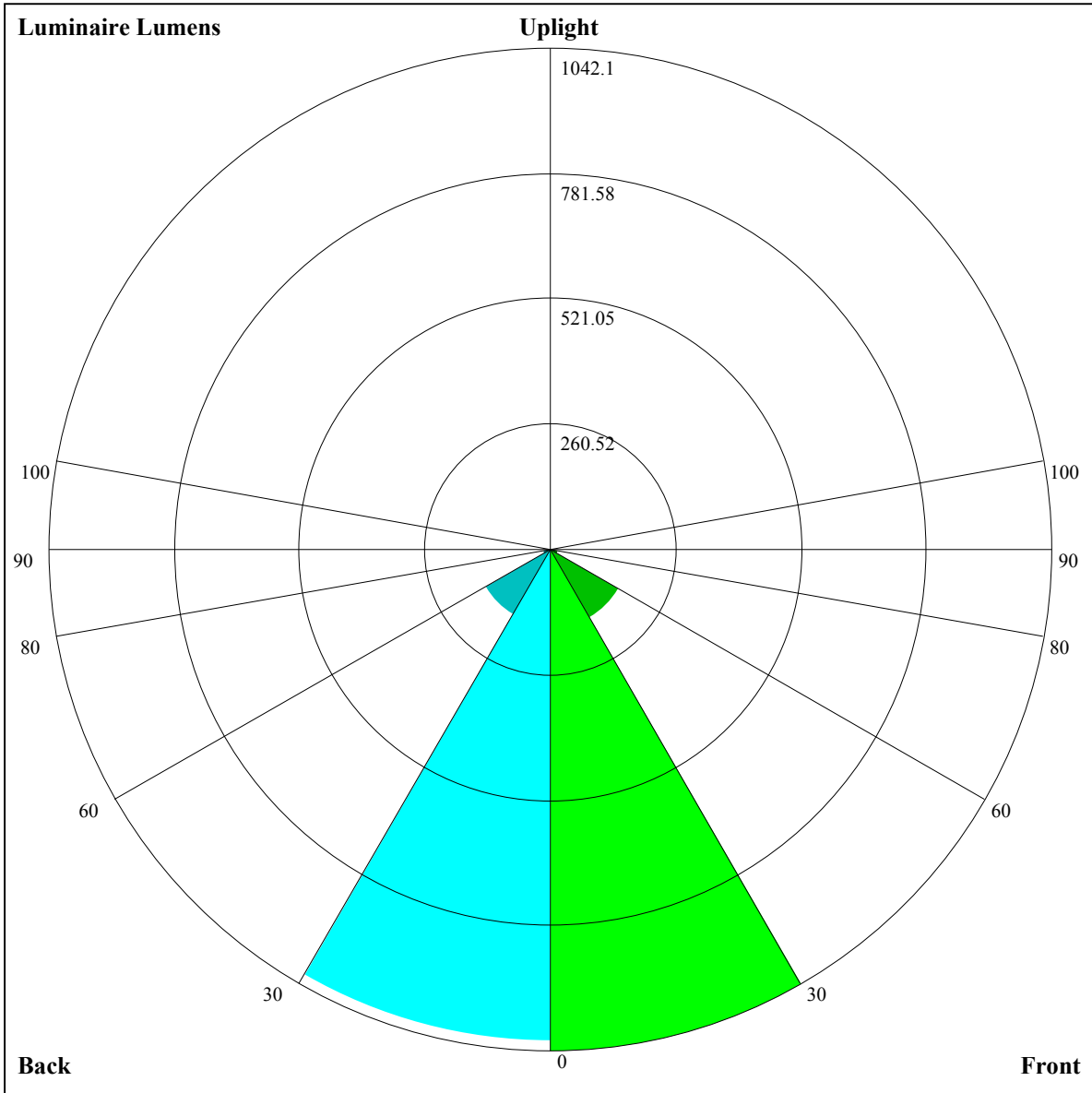
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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	
4H	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	
	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	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	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	1.02	1.02	1.02	0.99	0.99	0.99	0.95	0.95	0.95	0.91	0.91	0.91	0.87	0.87	0.87	0.85
1	0.95	0.93	0.91	0.93	0.91	0.90	0.90	0.88	0.87	0.87	0.85	0.84	0.84	0.83	0.82	0.80
2	0.89	0.86	0.83	0.88	0.85	0.83	0.85	0.83	0.81	0.83	0.81	0.79	0.80	0.79	0.77	0.76
3	0.84	0.80	0.77	0.83	0.80	0.77	0.81	0.78	0.76	0.79	0.76	0.74	0.77	0.75	0.73	0.72
4	0.80	0.76	0.72	0.79	0.75	0.72	0.77	0.74	0.71	0.75	0.73	0.70	0.74	0.71	0.69	0.68
5	0.76	0.71	0.68	0.75	0.71	0.68	0.73	0.70	0.67	0.72	0.69	0.67	0.71	0.68	0.66	0.65
6	0.72	0.68	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.63	0.68	0.65	0.63	0.62
7	0.69	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	0.66	0.61	0.58	0.65	0.61	0.58	0.64	0.61	0.58	0.64	0.60	0.58	0.63	0.60	0.57	0.56
9	0.63	0.59	0.56	0.62	0.58	0.55	0.62	0.58	0.55	0.61	0.58	0.55	0.60	0.57	0.55	0.54
10	0.60	0.56	0.53	0.60	0.56	0.53	0.59	0.56	0.53	0.59	0.55	0.53	0.58	0.55	0.53	0.52





Luminaire Lumens:

FL=1042.1,FM=165.34,FH=17.87,FVH=6.12

BL=1023.55,BM=158.3,BH=17.65,BVH=6.08

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	5610.03	5589.54	5528.09	5454.36	5379.45	5254.79	5137.16	5010.17	4869.72
45.0	5622.32	5602.42	5576.67	5512.88	5444.41	5368.91	5269.42	5127.80	5016.02
90.0	5598.91	5551.50	5491.22	5418.66	5336.14	5200.95	5086.83	4969.79	4831.68
135.0	5611.78	5603.59	5569.06	5501.17	5395.25	5308.05	5192.17	5022.46	4887.27
180.0	5610.03	5615.29	5581.93	5505.27	5409.88	5279.96	5150.04	4995.54	4833.43
225.0	5622.32	5624.07	5573.16	5468.99	5321.51	5192.17	5035.92	4809.44	4616.31
270.0	5598.91	5625.83	5635.78	5606.51	5498.25	5380.03	5229.04	5080.40	4913.61
315.0	5611.78	5591.30	5523.41	5433.29	5342.58	5235.48	5060.50	4909.51	4745.06
360.0	5610.03	5589.54	5528.09	5454.36	5379.45	5254.79	5137.16	5010.17	4869.72
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4679.52	4499.85	4297.95	4089.03	3812.21	3584.56	3304.24	3080.68	2871.76
45.0	4888.44	4732.77	4504.54	4316.68	4057.42	3837.38	3617.33	3338.18	3118.14
90.0	4626.85	4437.82	4195.54	3993.63	3773.00	3504.39	3287.27	3060.20	2846.59
135.0	4742.14	4577.69	4352.38	4151.06	3947.40	3729.11	3507.31	3231.09	3013.38
180.0	4622.17	4438.40	4254.06	4062.11	3804.02	3580.47	3346.96	3061.96	2861.81
225.0	4417.34	4176.81	3984.86	3790.56	3581.05	3296.05	3066.64	2851.86	2651.71
270.0	4687.71	4492.83	4294.44	4055.08	3850.84	3642.50	3415.43	3119.89	2910.38
315.0	4571.25	4395.10	4158.08	3948.57	3668.83	3437.08	3210.02	2943.16	2737.74
360.0	4679.52	4499.85	4297.95	4089.03	3812.21	3584.56	3304.24	3080.68	2871.76
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2630.06	2452.74	2285.36	2084.04	1930.72	1784.41	1643.96	1476.00	1147.74
45.0	2904.53	2705.55	2478.49	2312.28	2147.83	1993.92	1811.33	1669.71	1530.42
90.0	2604.89	2426.40	2259.61	2097.50	1904.38	1762.17	1622.30	1451.42	1162.26
135.0	2762.91	2577.39	2400.07	2189.97	2024.94	1875.12	1700.14	1563.78	1429.76
180.0	2601.97	2431.67	2276.58	2109.21	1902.04	1756.32	1617.62	1481.85	1317.99
225.0	2425.82	2261.95	2063.56	1909.65	1763.93	1590.11	1456.68	1142.18	1142.18
270.0	2700.29	2507.75	2309.36	2155.44	1991.58	1846.44	1673.80	1501.75	1368.90
315.0	2546.37	2335.69	2175.93	2020.26	1865.76	1689.60	1556.17	1326.76	1167.29
360.0	2630.06	2452.74	2285.36	2084.04	1930.72	1784.41	1643.96	1476.00	1147.74
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1147.74	1087.06	941.57	827.98	714.74	606.00	484.45	405.91	329.42
45.0	1361.29	1231.37	1105.55	956.32	838.69	722.81	588.79	493.40	416.15
90.0	1162.26	1039.83	922.14	775.25	660.84	557.95	467.95	392.28	316.78
135.0	1296.92	1138.32	1020.69	904.82	789.53	649.07	546.07	458.29	369.92
180.0	1192.16	1076.29	932.32	818.20	703.50	568.90	475.26	399.18	321.35
225.0	1053.93	936.59	820.37	708.59	576.91	483.63	406.85	343.18	277.69
270.0	1236.64	1116.67	972.70	850.39	731.59	625.08	501.01	420.84	354.12
315.0	1136.10	1014.72	896.27	754.24	644.45	517.92	433.42	365.30	310.34
360.0	1147.74	1087.06	941.57	827.98	714.74	606.00	484.45	405.91	329.42
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	279.97	238.01	193.65	164.39	140.04	119.56	99.08	85.85	75.38
45.0	337.73	297.35	297.35	201.08	163.39	138.82	118.98	102.65	86.32
90.0	267.62	226.83	190.90	154.38	131.03	112.01	92.88	81.05	69.29
135.0	311.40	297.94	239.59	171.24	137.59	116.87	99.49	85.33	71.46
180.0	295.01	295.01	182.41	155.08	131.09	110.72	91.24	79.06	68.94
225.0	234.21	196.87	158.77	134.08	108.79	92.70	79.88	69.41	59.87
270.0	299.69	299.69	200.79	169.66	137.35	116.46	95.45	82.52	71.98
315.0	252.64	214.08	180.60	152.80	124.24	106.34	91.35	79.47	67.71
360.0	279.97	238.01	193.65	164.39	140.04	119.56	99.08	85.85	75.38

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	66.95	58.93	53.90	49.86	45.65	42.60	39.62	37.63	35.70
45.0	75.85	67.36	59.05	53.90	49.57	44.83	41.79	39.44	36.87
90.0	62.27	56.59	50.74	46.88	43.66	40.91	38.16	36.23	34.41
135.0	63.15	56.83	51.73	47.70	43.83	41.20	38.57	36.75	35.00
180.0	61.16	54.07	49.74	46.29	42.90	40.50	38.45	36.05	34.29
225.0	54.13	49.86	46.41	42.90	40.38	38.22	35.93	34.18	32.48
270.0	63.67	55.95	51.32	47.58	44.54	41.32	39.15	37.10	35.23
315.0	60.86	55.54	50.27	46.82	43.13	40.61	38.45	36.46	34.18
360.0	66.95	58.93	53.90	49.86	45.65	42.60	39.62	37.63	35.70
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	33.88	31.95	30.43	28.97	27.39	26.16	25.05	23.99	22.82
45.0	35.00	33.30	31.78	30.26	28.50	27.33	26.16	24.76	23.76
90.0	32.77	30.84	29.38	28.03	26.63	25.46	24.35	23.23	22.41
135.0	32.89	31.49	30.14	28.56	27.27	26.10	25.05	23.76	22.88
180.0	32.66	30.84	29.44	28.21	26.98	25.63	24.58	23.64	22.71
225.0	30.67	29.26	27.62	26.45	25.34	24.35	23.12	22.30	21.48
270.0	33.12	31.60	29.73	28.38	26.86	25.75	24.64	23.64	22.59
315.0	32.60	31.08	29.26	27.97	26.80	25.69	24.35	23.41	22.47
360.0	33.88	31.95	30.43	28.97	27.39	26.16	25.05	23.99	22.82
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	22.00	21.01	20.25	19.61	18.73	18.08	17.56	17.03	16.39
45.0	22.65	21.77	20.95	20.07	19.43	18.79	18.14	17.44	16.97
90.0	21.59	20.54	19.90	19.25	18.55	17.79	17.26	16.80	16.27
135.0	22.06	21.24	20.31	19.66	19.02	18.20	17.67	17.09	16.56
180.0	21.65	20.78	20.13	19.31	18.61	17.85	17.32	16.85	16.33
225.0	20.66	19.78	19.08	18.49	17.85	17.21	16.80	16.15	15.63
270.0	21.71	20.83	20.13	19.43	18.67	18.02	17.44	16.85	16.39
315.0	21.59	20.60	19.84	19.02	18.32	17.73	17.09	16.62	16.09
360.0	22.00	21.01	20.25	19.61	18.73	18.08	17.56	17.03	16.39
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	15.86	15.45	15.04	14.57	14.16	13.87	13.58	13.17	12.76
45.0	16.44	15.86	15.33	14.92	14.57	14.10	13.81	13.52	13.05
90.0	15.68	15.27	14.86	14.40	14.05	13.69	13.40	12.99	12.58
135.0	15.98	15.57	15.10	14.69	14.34	13.99	13.69	13.40	12.87
180.0	15.68	15.27	14.92	14.57	14.10	13.81	13.46	12.99	12.58
225.0	15.27	14.75	14.40	14.05	13.75	13.28	12.93	12.58	12.35
270.0	15.68	15.27	14.86	14.40	14.05	13.75	13.40	12.93	12.58
315.0	15.57	15.04	14.69	14.28	13.87	13.52	13.23	12.87	12.41
360.0	15.86	15.45	15.04	14.57	14.16	13.87	13.58	13.17	12.76
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	12.47	12.17	11.88	11.35	11.06	10.83	10.59	10.42	10.30
45.0	12.70	12.41	12.11	11.70	11.24	11.06	10.77	10.53	10.36
90.0	12.29	12.00	11.65	11.24	11.00	10.77	10.48	10.30	10.12
135.0	12.52	12.23	11.82	11.35	11.12	10.89	10.59	10.42	10.24
180.0	12.35	12.00	11.41	11.18	11.00	10.71	10.48	10.48	10.12
225.0	12.00	11.53	11.18	11.00	10.71	10.53	10.48	10.12	10.30
270.0	12.35	12.00	11.59	11.18	11.06	10.71	10.53	10.53	10.12
315.0	12.23	11.94	11.41	11.12	10.89	10.65	10.48	10.53	10.12
360.0	12.47	12.17	11.88	11.35	11.06	10.83	10.59	10.42	10.30

Intensity data(cd)

C/ γ (°)	90.0
0.0	10.12
45.0	10.18
90.0	10.12
135.0	10.12
180.0	10.24
225.0	10.24
270.0	10.30
315.0	10.30
360.0	10.12