



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: 2-2682-L

Luminaire: 92.70.411.00

Report No: 2024403-B010

Ballast type: AC

Test No: 2024403-C010

Voltage(V): 0.000

LampCAT: Fortimo_SLM_C_1208

Current(A): 0.000

Lamp flux(lm): 3438.0

Power (W): 0.000

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2974.40, Efficiency(%): 86.52% , Luminous Efficacy(lm/W): 0.00

Central intensity(cd): 12948.690, Maximum intensity(cd): 12948.690

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=18.4

[C90/270]Total=18.4

Field angle(10%Imax): [C0/180]Total=52.8

[C90/270]Total=52.8

Maximum s/h(1/2): C0_180=0.31 C90_270=0.31

Maximum s/h(1/4): C0_180=0.38 C90_270=0.38

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 86.52%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.037%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/4/03
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	12948.688	0.000	0	0.00%	0.00%
1.0	12704.730	12.275	12.275	0.36%	0.41%
2.0	12159.542	35.688	47.962	1.04%	1.61%
3.0	11828.231	57.371	105.333	1.67%	3.54%
4.0	11266.562	77.306	182.639	2.25%	6.14%
5.0	10444.832	93.401	276.04	2.72%	9.28%
6.0	9425.956	104.426	380.466	3.04%	12.79%
7.0	8473.429	111.101	491.568	3.23%	16.53%
8.0	7502.467	114.336	605.904	3.33%	20.37%
9.0	6630.702	114.542	720.446	3.33%	24.22%
10.0	5914.459	113.529	833.975	3.30%	28.04%
11.0	5328.722	112.342	946.317	3.27%	31.82%
12.0	4760.249	110.287	1056.604	3.21%	35.52%
13.0	4325.061	107.820	1164.424	3.14%	39.15%
14.0	3922.134	105.563	1269.987	3.07%	42.70%
15.0	3580.802	103.004	1372.991	3.00%	46.16%
16.0	3246.419	100.038	1473.029	2.91%	49.52%
17.0	2971.948	96.837	1569.865	2.82%	52.78%
18.0	2799.234	95.154	1665.02	2.77%	55.98%
19.0	2579.643	93.581	1758.601	2.72%	59.12%
20.0	2324.272	89.755	1848.356	2.61%	62.14%
21.0	2081.631	84.602	1932.959	2.46%	64.99%
22.0	1904.161	80.096	2013.055	2.33%	67.68%
23.0	1739.786	76.460	2089.515	2.22%	70.25%
24.0	1600.283	73.026	2162.541	2.12%	72.71%
25.0	1467.218	69.748	2232.289	2.03%	75.05%
26.0	1329.931	66.027	2298.316	1.92%	77.27%
27.0	1236.046	62.777	2361.093	1.83%	79.38%
28.0	1176.266	61.075	2422.168	1.78%	81.43%
29.0	1077.019	58.952	2481.12	1.71%	83.42%
30.0	969.008	55.242	2536.362	1.61%	85.27%
31.0	857.201	50.821	2587.183	1.48%	86.98%
32.0	745.167	45.906	2633.089	1.34%	88.53%
33.0	628.400	40.466	2673.555	1.18%	89.89%
34.0	525.744	34.928	2708.483	1.02%	91.06%
35.0	421.647	29.422	2737.905	0.86%	92.05%
36.0	332.693	24.018	2761.923	0.70%	92.86%
37.0	264.763	19.486	2781.409	0.57%	93.51%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	218.903	16.144	2797.553	0.47%	94.05%
39.0	140.710	12.275	2809.828	0.36%	94.47%
40.0	98.230	8.333	2818.161	0.24%	94.75%
41.0	85.318	6.536	2824.697	0.19%	94.97%
42.0	79.152	5.975	2830.673	0.17%	95.17%
43.0	73.709	5.662	2836.335	0.16%	95.36%
44.0	69.547	5.407	2841.742	0.16%	95.54%
45.0	66.240	5.218	2846.961	0.15%	95.72%
46.0	63.153	5.060	2852.021	0.15%	95.89%
47.0	60.461	4.916	2856.937	0.14%	96.05%
48.0	58.193	4.797	2861.734	0.14%	96.21%
49.0	56.343	4.703	2866.437	0.14%	96.37%
50.0	54.748	4.632	2871.069	0.13%	96.53%
51.0	53.585	4.583	2875.653	0.13%	96.68%
52.0	52.721	4.562	2880.214	0.13%	96.83%
53.0	52.027	4.557	2884.771	0.13%	96.99%
54.0	51.551	4.565	2889.336	0.13%	97.14%
55.0	51.302	4.591	2893.927	0.13%	97.29%
56.0	50.710	4.610	2898.537	0.13%	97.45%
57.0	49.700	4.591	2903.128	0.13%	97.60%
58.0	47.813	4.509	2907.637	0.13%	97.76%
59.0	44.616	4.321	2911.958	0.13%	97.90%
60.0	41.185	4.054	2916.012	0.12%	98.04%
61.0	37.784	3.769	2919.78	0.11%	98.16%
62.0	34.206	3.469	2923.249	0.10%	98.28%
63.0	30.359	3.140	2926.389	0.09%	98.39%
64.0	26.745	2.802	2929.191	0.08%	98.48%
65.0	23.965	2.510	2931.701	0.07%	98.56%
66.0	21.748	2.281	2933.982	0.07%	98.64%
67.0	20.439	2.121	2936.103	0.06%	98.71%
68.0	19.605	2.028	2938.132	0.06%	98.78%
69.0	18.976	1.968	2940.1	0.06%	98.85%
70.0	18.435	1.921	2942.021	0.06%	98.91%
71.0	17.996	1.883	2943.904	0.05%	98.97%
72.0	17.579	1.850	2945.754	0.05%	99.04%
73.0	17.228	1.820	2947.574	0.05%	99.10%
74.0	16.920	1.795	2949.369	0.05%	99.16%
75.0	16.613	1.772	2951.141	0.05%	99.22%

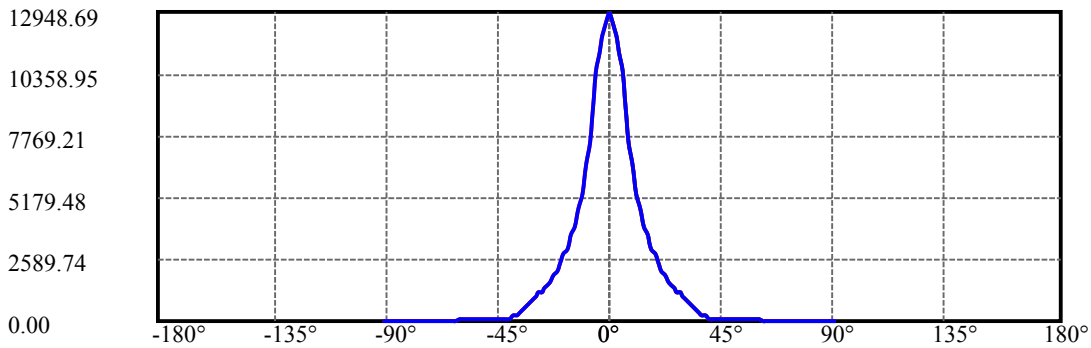
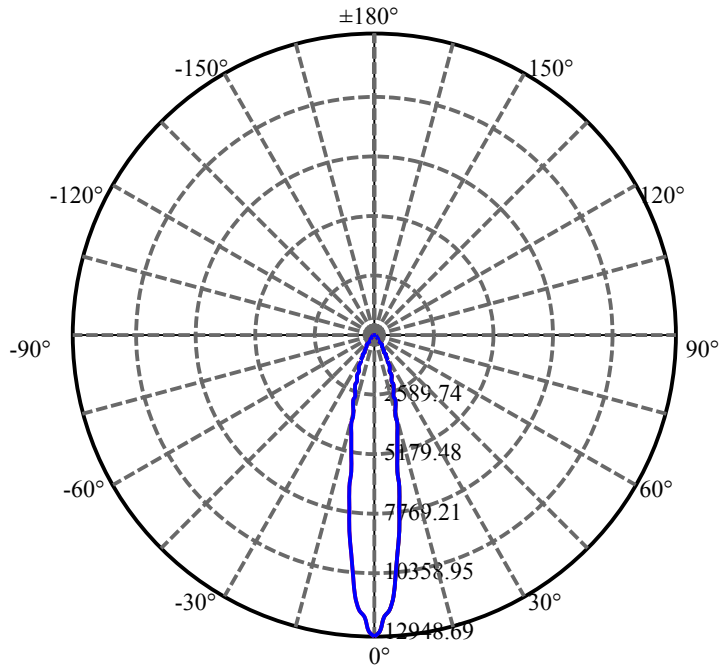
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	16.306	1.747	2952.888	0.05%	99.28%
77.0	16.050	1.725	2954.614	0.05%	99.33%
78.0	15.743	1.702	2956.315	0.05%	99.39%
79.0	15.413	1.674	2957.989	0.05%	99.45%
80.0	15.062	1.643	2959.632	0.05%	99.50%
81.0	14.711	1.610	2961.242	0.05%	99.56%
82.0	14.367	1.577	2962.819	0.05%	99.61%
83.0	14.016	1.543	2964.362	0.04%	99.66%
84.0	13.709	1.510	2965.873	0.04%	99.71%
85.0	13.416	1.480	2967.353	0.04%	99.76%
86.0	13.182	1.454	2968.807	0.04%	99.81%
87.0	12.955	1.430	2970.238	0.04%	99.86%
88.0	12.707	1.406	2971.643	0.04%	99.91%
89.0	12.546	1.384	2973.027	0.04%	99.95%
90.0	12.473	1.372	2974.399	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2536.36	73.77%	85.27%
0-40	2818.16	81.97%	94.75%
0-60	2916.01	84.82%	98.04%
0-90	2973.03	86.48%	99.95%
0-120	2973.03	86.48%	99.95%
0-180	2974.40	86.52%	100.00%
60-90	57.02	1.66%	1.92%
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%
0-27.30	2379.52	69.21%	80.00%

ZONAL LUMEN SUMMARY

0-10	833.97
10-20	1014.38
20-30	688.01
30-40	281.80
40-50	52.91
50-60	44.94
60-70	26.01
70-80	17.61
80-90	13.39
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



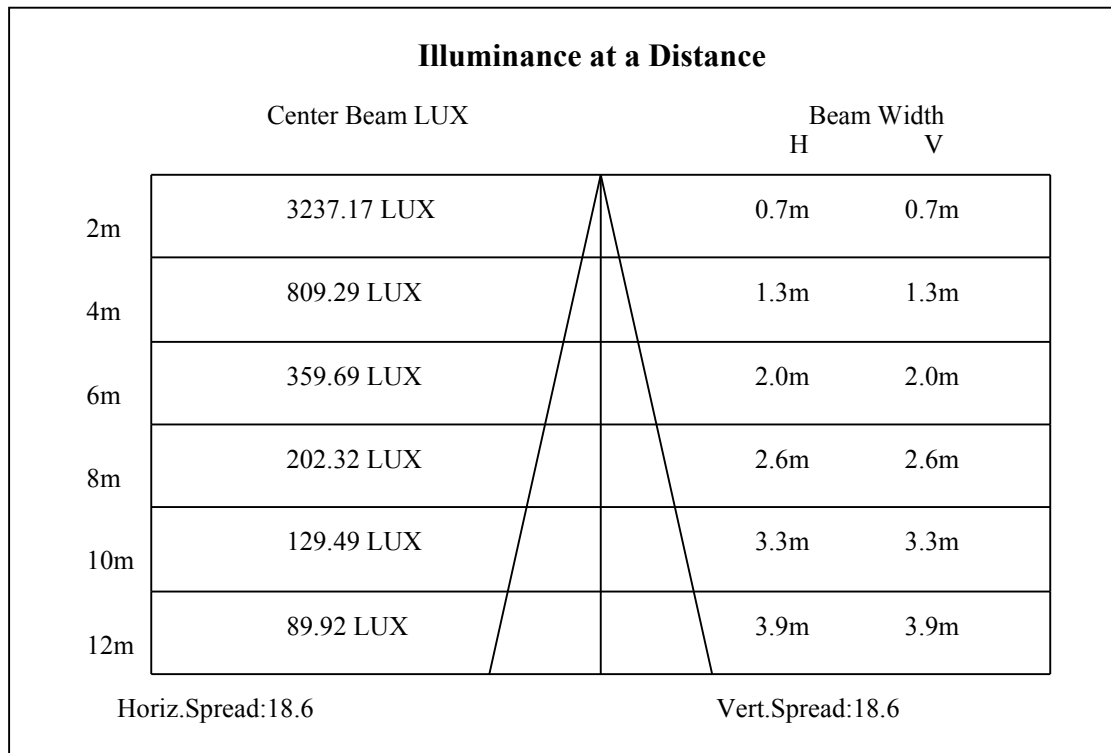
C0(Max): —————

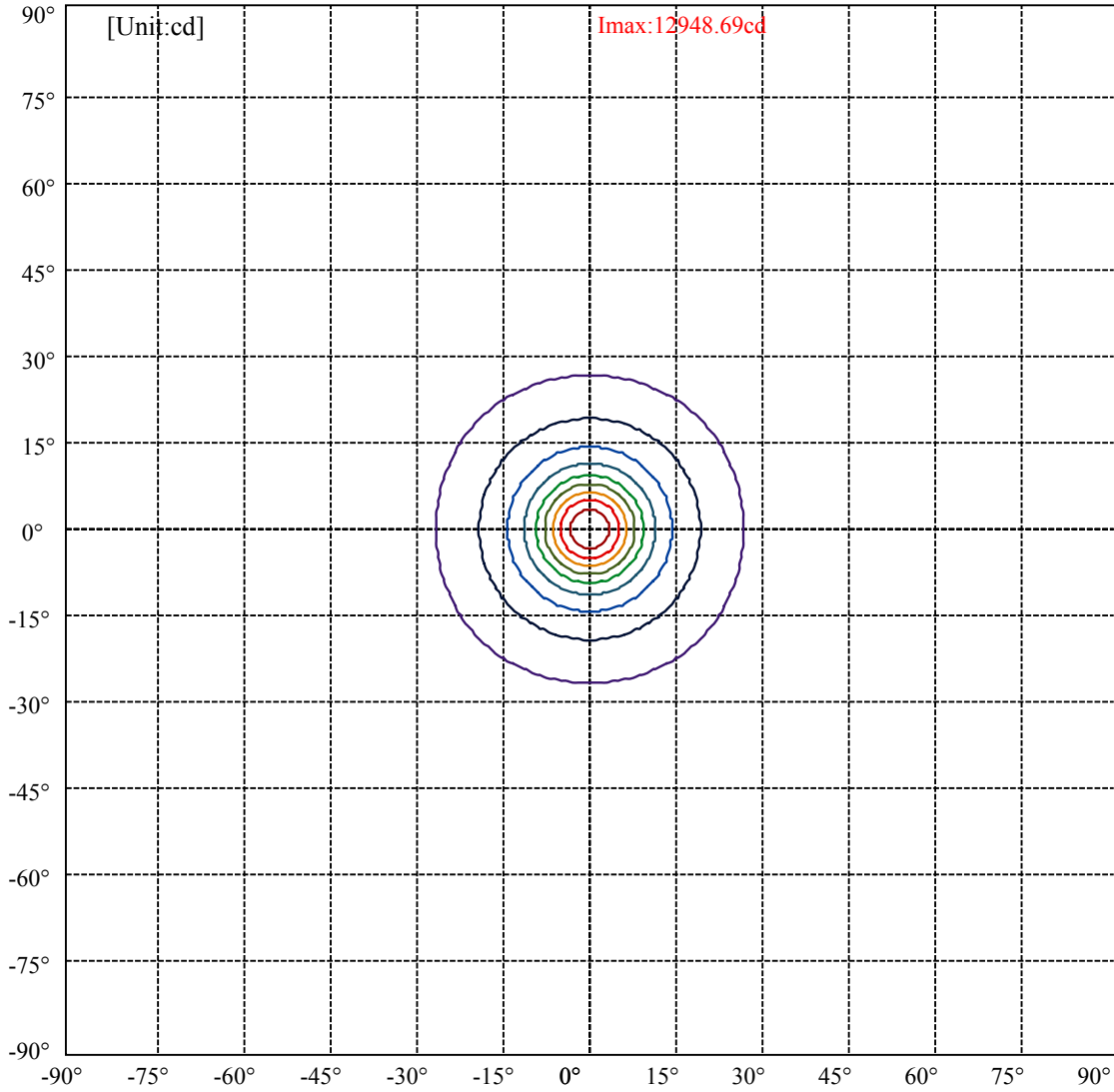
C0/C180: —————

C90/C270: —————

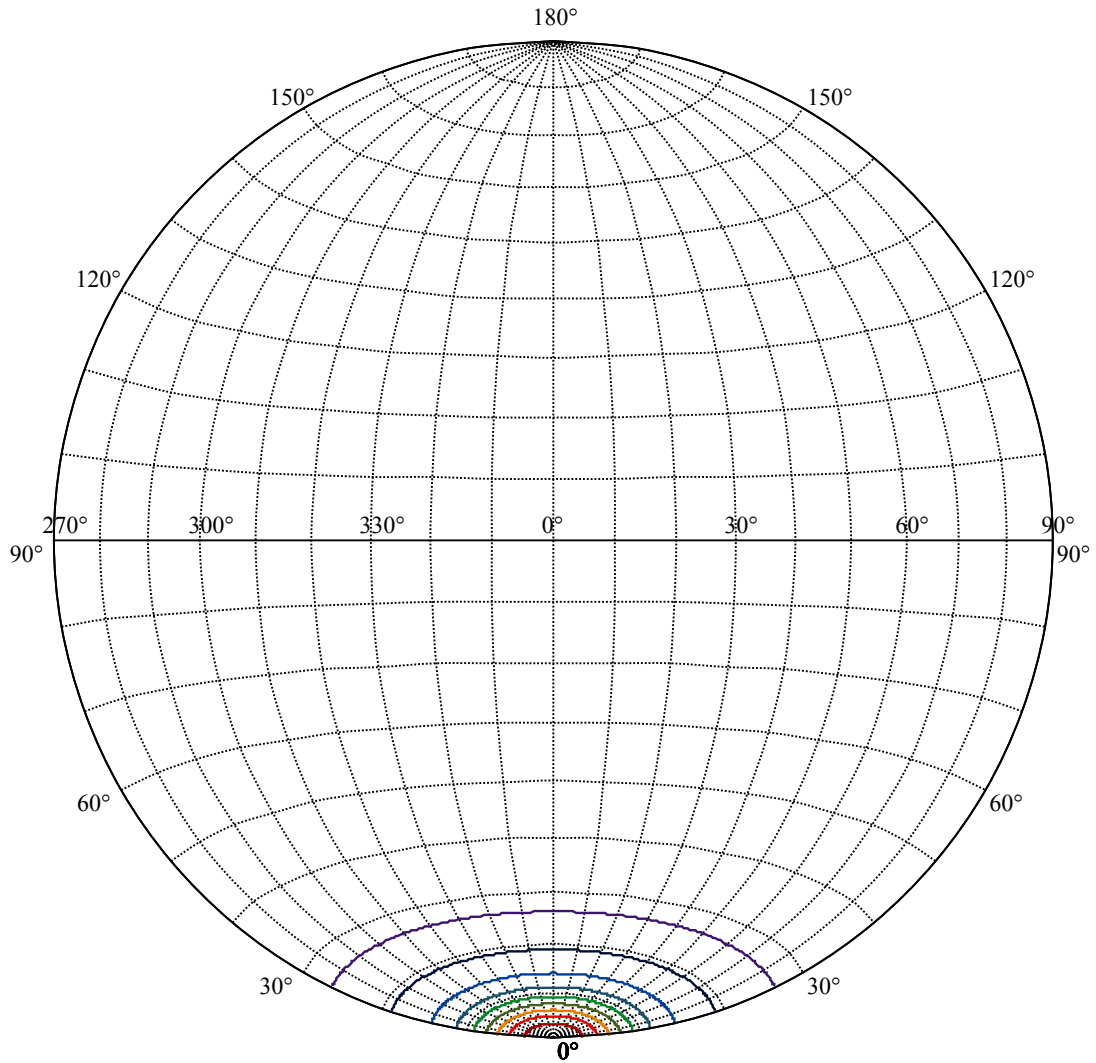
Field angle(10%Imax):C0/180Left:26.4 Right:26.4
:C90/270Left:26.4 Right:26.4

Beam Angle(50%Imax):C0/180Left:9.2 Right:9.2
:C90/270Left:9.2 Right:9.2





(10%Imax) 1294.87	—
(20%Imax) 2589.74	—
(30%Imax) 3884.61	—
(40%Imax) 5179.48	—
(50%Imax) 6474.34	—
(60%Imax) 7769.21	—
(70%Imax) 9064.08	—
(80%Imax) 10359	—
(90%Imax) 11653.8	—



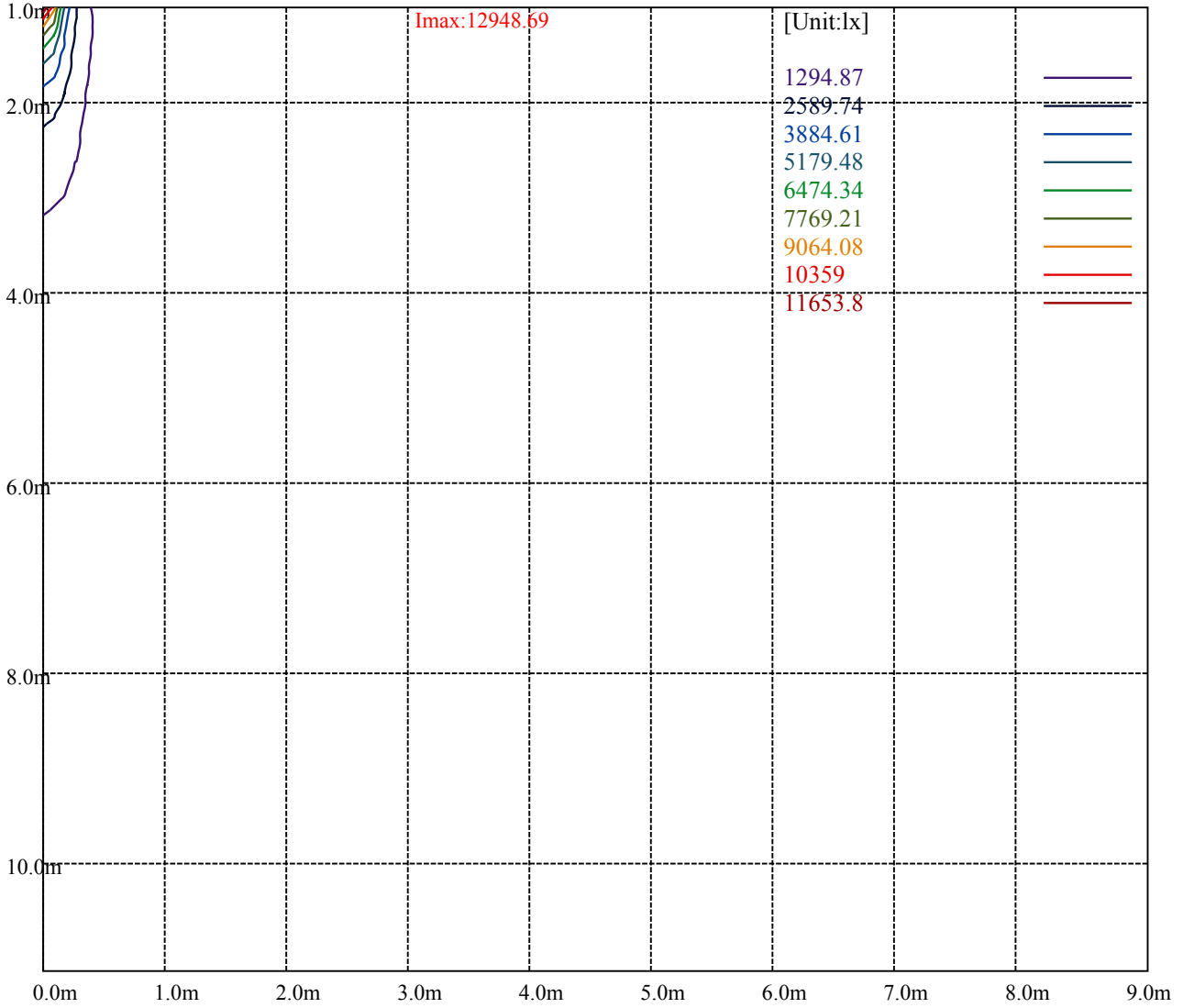
House

[Unit:cd]

Road

Imax:12948.69

(10%Imax) 1294.87	—
(20%Imax) 2589.74	—
(30%Imax) 3884.61	—
(40%Imax) 5179.48	—
(50%Imax) 6474.34	—
(60%Imax) 7769.21	—
(70%Imax) 9064.08	—
(80%Imax) 10359	—
(90%Imax) 11653.8	—



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

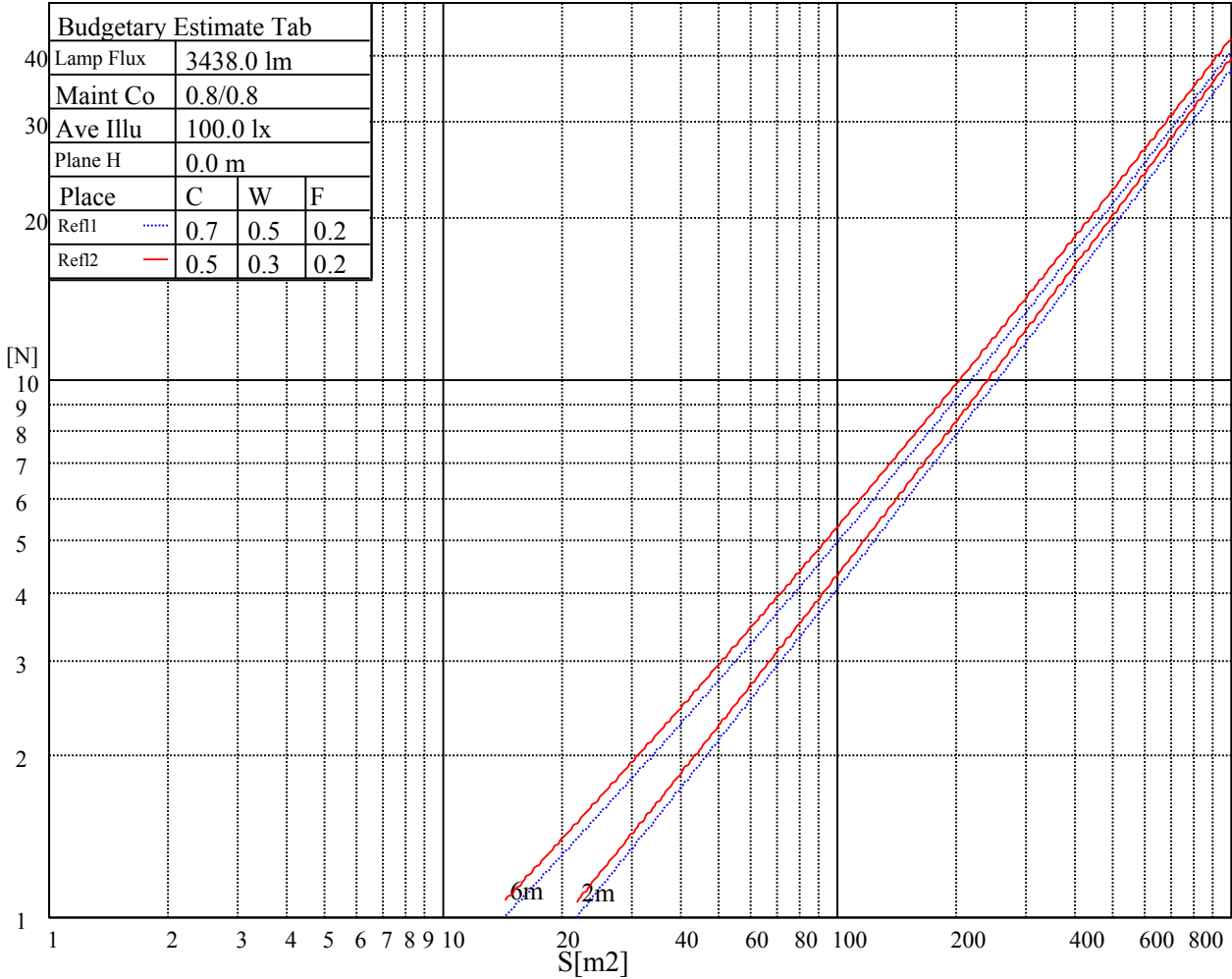
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

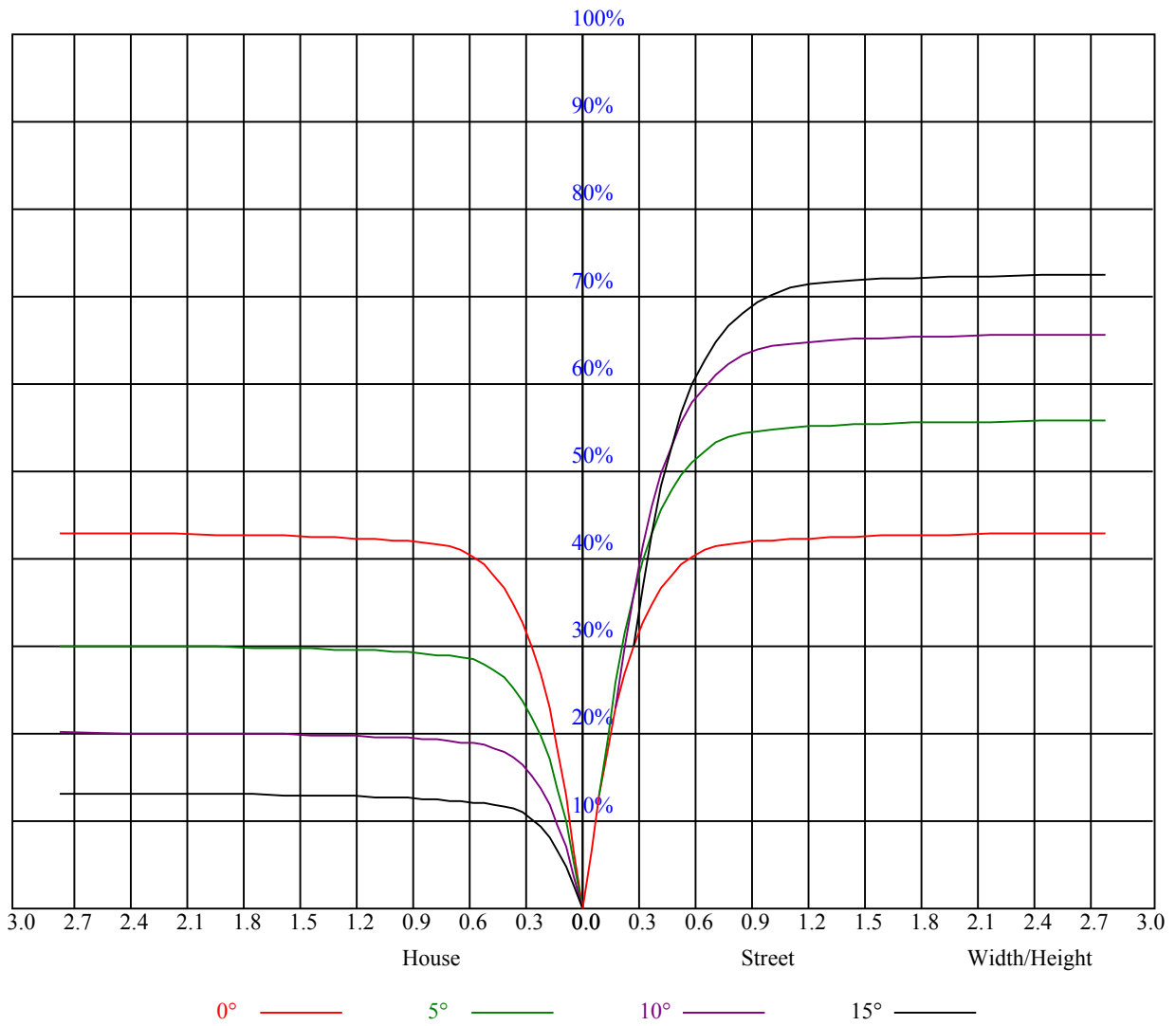


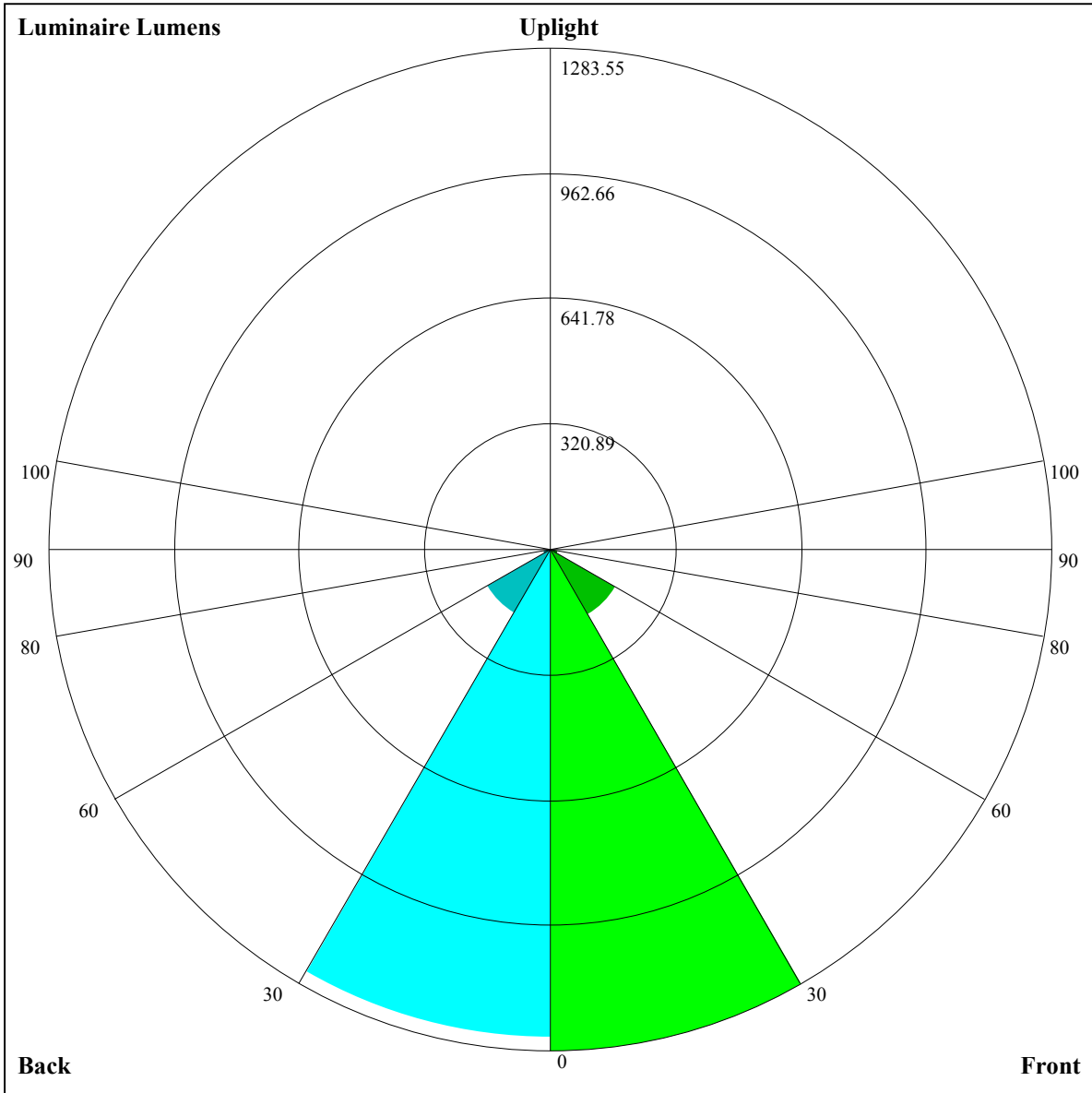
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字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





Luminaire Lumens:

FL=1283.55,FM=193.09,FH=21.91,FVH=7.41

BL=1251.42,BM=189.03,BH=21.83,BVH=7.37

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	13001.36	12872.61	11605.66	11605.66	11265.64	10507.19	9417.50	8463.00	7559.41
45.0	12866.76	13024.77	12960.39	12585.85	12111.82	11479.77	10724.83	9671.43	8740.92
90.0	13013.06	12890.17	11632.58	11632.58	11277.34	10484.36	9375.95	8430.22	7511.42
135.0	12913.57	12966.25	12732.16	12340.05	11778.24	10894.55	10075.23	9150.58	7968.42
180.0	13001.36	12837.50	12492.21	11953.81	11327.62	10367.85	9460.75	8500.98	7588.03
225.0	12866.76	11652.47	11652.47	11122.84	10328.69	9433.30	8249.39	7372.72	6410.03
270.0	13013.06	12901.87	12585.85	11936.25	11310.06	10525.86	9419.78	8471.72	7365.64
315.0	12913.57	12492.21	11615.02	11448.82	10733.09	9865.78	8684.21	7726.78	6875.87
360.0	13001.36	12872.61	11605.66	11605.66	11265.64	10507.19	9417.50	8463.00	7559.41
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	6561.02	5899.13	5337.90	4847.48	4318.43	3955.01	3623.77	3322.97	2980.61
45.0	7593.88	6774.56	6095.70	5393.43	4907.70	4462.93	4070.83	3637.76	3339.29
90.0	6688.01	5846.46	5278.79	4686.54	4264.59	3896.49	3491.51	3204.75	2941.98
135.0	7090.59	6353.20	5715.31	5042.30	4585.82	4176.17	3813.33	3409.52	3122.76
180.0	6604.85	5920.14	5352.47	4726.28	4293.21	3848.44	3526.57	3228.10	2964.75
225.0	5748.14	5192.17	4606.36	4206.66	3856.11	3454.64	3166.71	2909.21	2666.34
270.0	6604.85	5914.28	5334.91	4708.72	4287.36	3924.52	3590.94	3233.95	2976.45
315.0	6154.28	5415.73	4908.34	4470.59	4087.27	3658.89	3362.76	3025.09	2783.39
360.0	6561.02	5899.13	5337.90	4847.48	4318.43	3955.01	3623.77	3322.97	2980.61
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2739.50	2523.55	2277.75	2093.99	1923.11	1730.57	1589.53	1440.88	1349.00
45.0	3058.39	2994.01	2994.01	2345.06	2167.15	1993.92	1798.45	1650.98	1518.13
90.0	2710.24	2445.13	2257.86	2078.19	1913.74	1724.72	1586.60	1465.46	1349.00
135.0	2994.01	2994.01	2393.04	2160.71	1992.75	1834.74	1687.26	1523.98	1409.87
180.0	2964.75	2444.54	2250.83	2065.90	1851.71	1704.23	1574.31	1459.02	1344.91
225.0	2391.87	2204.02	2026.69	1865.76	1687.85	1556.76	1446.73	1329.69	1150.55
270.0	2976.45	2718.43	2263.12	2079.95	1917.84	1734.08	1598.89	1449.66	1357.78
315.0	2558.66	2313.45	2130.86	1963.49	1779.14	1639.27	1520.47	1418.06	1160.21
360.0	2739.50	2523.55	2277.75	2093.99	1923.11	1730.57	1589.53	1440.88	1349.00
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1161.79	1161.79	1064.35	959.30	854.37	749.50	622.91	523.95	430.96
45.0	1386.46	1303.35	1200.94	1100.87	998.45	890.77	757.34	653.75	553.68
90.0	1160.27	1160.27	1066.51	963.28	858.29	723.34	618.82	515.64	395.03
135.0	1318.57	1239.57	1135.98	1038.25	935.83	831.66	701.74	600.50	480.53
180.0	1268.83	1172.26	1073.95	969.78	835.17	726.32	623.32	505.11	414.98
225.0	1150.55	1053.52	951.52	843.78	710.93	609.45	510.49	419.37	314.09
270.0	1281.70	1182.21	1086.24	975.04	870.29	742.12	632.69	526.18	437.81
315.0	1160.21	1137.15	1036.67	901.77	794.27	688.17	559.88	461.45	346.10
360.0	1161.79	1161.79	1064.35	959.30	854.37	749.50	622.91	523.95	430.96
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	342.59	245.38	177.73	114.12	88.90	80.29	75.20	70.46	67.07
45.0	458.29	344.17	303.21	303.21	129.74	93.64	84.10	77.66	73.62
90.0	308.59	232.80	167.78	113.88	93.23	85.50	79.88	74.44	70.81
135.0	386.89	303.21	303.21	148.47	110.49	88.78	81.70	76.84	72.33
180.0	330.13	310.81	222.44	124.01	98.03	88.25	81.87	77.25	71.40
225.0	241.64	180.02	131.85	97.85	88.43	83.10	77.07	70.52	66.72
270.0	327.78	306.13	306.13	127.58	93.69	83.92	78.13	73.74	68.59
315.0	265.63	195.58	138.87	96.56	83.34	79.06	75.26	68.76	65.84
360.0	342.59	245.38	177.73	114.12	88.90	80.29	75.20	70.46	67.07

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	64.26	61.80	58.87	56.47	55.13	53.72	52.79	51.97	50.91
45.0	69.99	65.95	63.20	61.16	58.64	56.47	54.78	53.37	53.26
90.0	68.06	64.43	61.27	58.58	57.29	56.01	54.78	53.43	52.55
135.0	67.24	64.02	61.45	59.17	56.47	54.78	53.02	52.20	51.97
180.0	68.12	64.61	61.92	59.34	57.88	55.95	54.60	54.07	53.31
225.0	63.97	61.16	59.05	57.12	55.19	54.07	53.67	52.73	52.03
270.0	65.02	62.03	59.46	57.00	55.25	53.78	52.38	51.73	50.80
315.0	63.26	61.21	58.46	56.71	54.89	53.20	52.67	52.26	51.38
360.0	64.26	61.80	58.87	56.47	55.13	53.72	52.79	51.97	50.91
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	50.74	50.68	49.86	49.04	47.34	43.83	40.38	36.69	34.00
45.0	52.26	51.56	51.03	50.68	50.15	47.75	45.06	41.61	36.75
90.0	52.32	52.03	51.03	49.86	47.87	44.83	41.26	37.51	34.41
135.0	51.03	50.45	50.56	50.04	48.46	46.41	43.89	40.44	36.40
180.0	52.73	52.55	51.85	51.09	49.04	45.94	42.25	38.86	35.05
225.0	51.91	51.56	50.74	48.69	45.59	41.20	37.10	33.88	30.20
270.0	50.45	50.56	50.15	49.10	46.99	44.30	40.50	37.16	33.88
315.0	50.97	51.03	50.45	49.10	47.05	42.66	39.03	36.11	32.95
360.0	50.74	50.68	49.86	49.04	47.34	43.83	40.38	36.69	34.00
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	29.67	25.98	23.47	21.48	20.01	19.31	18.61	18.14	17.73
45.0	34.18	30.84	26.74	23.58	21.48	20.25	19.55	18.84	18.38
90.0	30.72	26.92	23.88	21.71	20.48	19.72	19.02	18.49	18.08
135.0	33.36	29.85	26.39	23.29	21.36	20.25	19.43	18.84	18.20
180.0	31.08	26.63	23.82	21.77	20.42	19.72	19.14	18.55	18.08
225.0	26.34	23.06	21.48	20.42	19.72	19.02	18.55	18.14	17.73
270.0	29.67	25.93	23.53	21.07	20.13	19.43	18.90	18.26	17.91
315.0	27.86	24.76	22.41	20.66	19.90	19.14	18.61	18.20	17.85
360.0	29.67	25.98	23.47	21.48	20.01	19.31	18.61	18.14	17.73
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	17.32	16.97	16.74	16.44	16.21	15.92	15.68	15.33	14.98
45.0	17.97	17.56	17.15	16.85	16.56	16.33	16.09	15.80	15.45
90.0	17.73	17.32	17.03	16.68	16.39	16.15	15.80	15.45	15.16
135.0	17.79	17.44	17.09	16.74	16.44	16.27	15.98	15.68	15.33
180.0	17.67	17.32	17.03	16.68	16.33	16.04	15.68	15.33	14.98
225.0	17.32	16.97	16.68	16.39	16.04	15.68	15.33	14.98	14.63
270.0	17.44	17.15	16.85	16.50	16.27	16.04	15.68	15.33	15.04
315.0	17.38	17.09	16.80	16.62	16.21	15.98	15.68	15.39	14.92
360.0	17.32	16.97	16.74	16.44	16.21	15.92	15.68	15.33	14.98
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	14.69	14.34	13.99	13.69	13.46	13.17	12.93	12.76	12.52
45.0	15.16	14.75	14.40	14.10	13.75	13.52	13.23	12.93	12.70
90.0	14.75	14.46	14.16	13.87	13.46	13.28	13.05	12.76	12.58
135.0	14.98	14.63	14.22	13.87	13.58	13.28	13.11	12.87	12.70
180.0	14.57	14.28	13.87	13.58	13.34	13.05	12.87	12.58	12.41
225.0	14.28	13.93	13.64	13.34	13.11	12.93	12.70	12.47	12.47
270.0	14.63	14.34	13.99	13.64	13.34	13.17	12.93	12.64	12.47
315.0	14.63	14.22	13.87	13.58	13.28	13.05	12.82	12.64	12.52
360.0	14.69	14.34	13.99	13.69	13.46	13.17	12.93	12.76	12.52

Intensity data(cd)

C/γ(°)	90.0
0.0	12.47
45.0	12.52
90.0	12.47
135.0	12.47
180.0	12.41
225.0	12.47
270.0	12.47
315.0	12.52
360.0	12.47