



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: 2-2683-L

Luminaire: 92.70.411.00

Report No: 2024403-B012

Ballast type: AC

Test No: 2024403-C012

Voltage(V): 34.400

LampCAT: Fortimo_SLM_C_1208

Current(A): 0.578

Lamp flux(lm): 3438.0

Power (W): 19.883

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2964.87, Efficiency(%): 86.24% , Luminous Efficacy(lm/W): 149.12

Central intensity(cd): 10075.290, Maximum intensity(cd): 10075.290

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=24.8

[C90/270]Total=24.8

Field angle(10%Imax): [C0/180]Total=59.6

[C90/270]Total=59.6

Maximum s/h(1/2): C0_180=0.42 C90_270=0.42

Maximum s/h(1/4): C0_180=0.45 C90_270=0.45

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 86.24%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.009%

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	10075.292	0.000	0	0.00%	0.00%
1.0	10015.672	9.613	9.613	0.28%	0.32%
2.0	9883.411	28.561	38.174	0.83%	1.29%
3.0	9658.100	46.737	84.911	1.36%	2.86%
4.0	9366.658	63.682	148.593	1.85%	5.01%
5.0	8969.948	78.883	227.476	2.29%	7.67%
6.0	8523.129	91.931	319.407	2.67%	10.77%
7.0	8032.784	102.762	422.169	2.99%	14.24%
8.0	7463.360	110.903	533.072	3.23%	17.98%
9.0	6922.027	116.586	649.658	3.39%	21.91%
10.0	6339.728	120.014	769.672	3.49%	25.96%
11.0	5783.984	121.141	890.813	3.52%	30.05%
12.0	5221.582	120.307	1011.119	3.50%	34.10%
13.0	4738.552	118.202	1129.321	3.44%	38.09%
14.0	4257.131	115.144	1244.465	3.35%	41.97%
15.0	3848.279	111.275	1355.74	3.24%	45.73%
16.0	3479.660	107.375	1463.114	3.12%	49.35%
17.0	3109.652	102.613	1565.728	2.98%	52.81%
18.0	2800.580	97.447	1663.175	2.83%	56.10%
19.0	2522.086	92.604	1755.778	2.69%	59.22%
20.0	2273.292	87.769	1843.547	2.55%	62.18%
21.0	2068.171	83.365	1926.912	2.42%	64.99%
22.0	1877.972	79.299	2006.211	2.31%	67.67%
23.0	1729.984	75.705	2081.916	2.20%	70.22%
24.0	1588.871	72.562	2154.478	2.11%	72.67%
25.0	1469.924	69.550	2224.028	2.02%	75.01%
26.0	1369.851	67.033	2291.061	1.95%	77.27%
27.0	1258.717	64.308	2355.37	1.87%	79.44%
28.0	1173.113	61.569	2416.939	1.79%	81.52%
29.0	1089.945	59.208	2476.147	1.72%	83.52%
30.0	980.493	55.901	2532.048	1.63%	85.40%
31.0	861.283	51.254	2583.302	1.49%	87.13%
32.0	747.574	46.092	2629.394	1.34%	88.69%
33.0	625.554	40.453	2669.847	1.18%	90.05%
34.0	516.439	34.560	2704.407	1.01%	91.22%
35.0	414.932	28.925	2733.332	0.84%	92.19%
36.0	330.718	23.742	2757.073	0.69%	92.99%
37.0	270.118	19.596	2776.669	0.57%	93.65%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	198.603	15.645	2792.315	0.46%	94.18%
39.0	135.172	11.393	2803.707	0.33%	94.56%
40.0	95.904	8.059	2811.766	0.23%	94.84%
41.0	81.880	6.331	2818.097	0.18%	95.05%
42.0	75.311	5.711	2823.808	0.17%	95.24%
43.0	70.395	5.397	2829.206	0.16%	95.42%
44.0	66.701	5.174	2834.38	0.15%	95.60%
45.0	63.555	5.006	2839.386	0.15%	95.77%
46.0	61.339	4.884	2844.27	0.14%	95.93%
47.0	59.437	4.804	2849.074	0.14%	96.09%
48.0	57.981	4.747	2853.821	0.14%	96.25%
49.0	56.745	4.711	2858.532	0.14%	96.41%
50.0	55.260	4.670	2863.202	0.14%	96.57%
51.0	54.185	4.630	2867.832	0.13%	96.73%
52.0	53.029	4.601	2872.433	0.13%	96.88%
53.0	51.690	4.555	2876.988	0.13%	97.04%
54.0	50.264	4.494	2881.482	0.13%	97.19%
55.0	48.654	4.416	2885.897	0.13%	97.34%
56.0	46.781	4.312	2890.21	0.13%	97.48%
57.0	44.682	4.182	2894.392	0.12%	97.62%
58.0	42.246	4.020	2898.411	0.12%	97.76%
59.0	39.554	3.824	2902.236	0.11%	97.89%
60.0	36.686	3.602	2905.837	0.10%	98.01%
61.0	33.980	3.372	2909.21	0.10%	98.12%
62.0	31.573	3.159	2912.368	0.09%	98.23%
63.0	29.400	2.965	2915.334	0.09%	98.33%
64.0	27.396	2.787	2918.121	0.08%	98.42%
65.0	25.757	2.630	2920.751	0.08%	98.51%
66.0	24.126	2.489	2923.24	0.07%	98.60%
67.0	22.582	2.349	2925.589	0.07%	98.68%
68.0	21.280	2.222	2927.811	0.06%	98.75%
69.0	20.249	2.119	2929.929	0.06%	98.82%
70.0	19.378	2.035	2931.965	0.06%	98.89%
71.0	18.735	1.970	2933.934	0.06%	98.96%
72.0	18.230	1.922	2935.856	0.06%	99.02%
73.0	17.776	1.883	2937.739	0.05%	99.08%
74.0	17.352	1.847	2939.586	0.05%	99.15%
75.0	16.964	1.813	2941.399	0.05%	99.21%

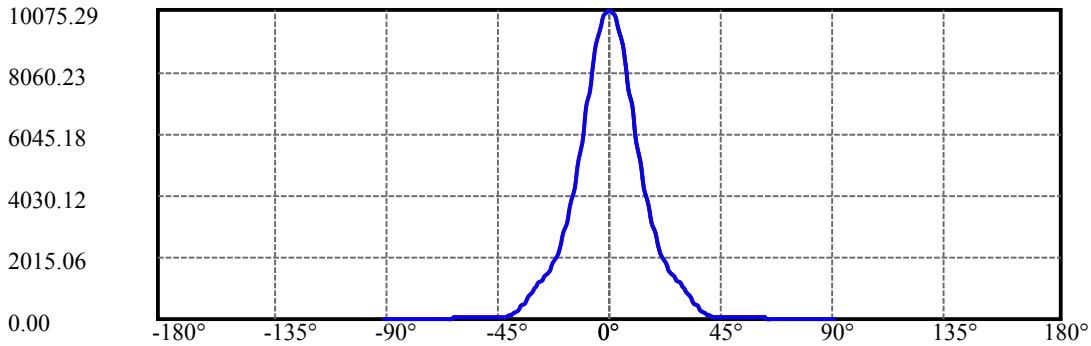
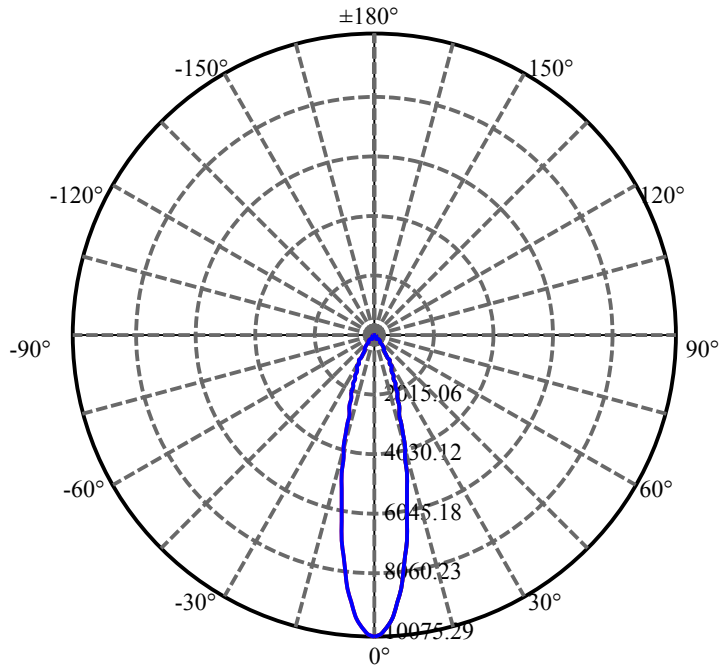
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	16.547	1.779	2943.178	0.05%	99.27%
77.0	16.218	1.747	2944.925	0.05%	99.33%
78.0	15.852	1.717	2946.642	0.05%	99.39%
79.0	15.457	1.682	2948.324	0.05%	99.44%
80.0	15.121	1.649	2949.973	0.05%	99.50%
81.0	14.748	1.615	2951.588	0.05%	99.55%
82.0	14.433	1.582	2953.17	0.05%	99.61%
83.0	14.104	1.551	2954.722	0.05%	99.66%
84.0	13.819	1.521	2956.243	0.04%	99.71%
85.0	13.541	1.493	2957.736	0.04%	99.76%
86.0	13.321	1.468	2959.204	0.04%	99.81%
87.0	13.124	1.447	2960.651	0.04%	99.86%
88.0	12.816	1.421	2962.072	0.04%	99.91%
89.0	12.721	1.400	2963.472	0.04%	99.95%
90.0	12.743	1.396	2964.868	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2532.05	73.65%	85.40%
0-40	2811.77	81.78%	94.84%
0-60	2905.84	84.52%	98.01%
0-90	2963.47	86.20%	99.95%
0-120	2963.47	86.20%	99.95%
0-180	2964.87	86.24%	100.00%
60-90	57.63	1.68%	1.94%
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%
0-27.27	2371.90	68.99%	80.00%

ZONAL LUMEN SUMMARY

0-10	769.67
10-20	1073.87
20-30	688.50
30-40	279.72
40-50	51.44
50-60	42.64
60-70	26.13
70-80	18.01
80-90	13.50
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: —————

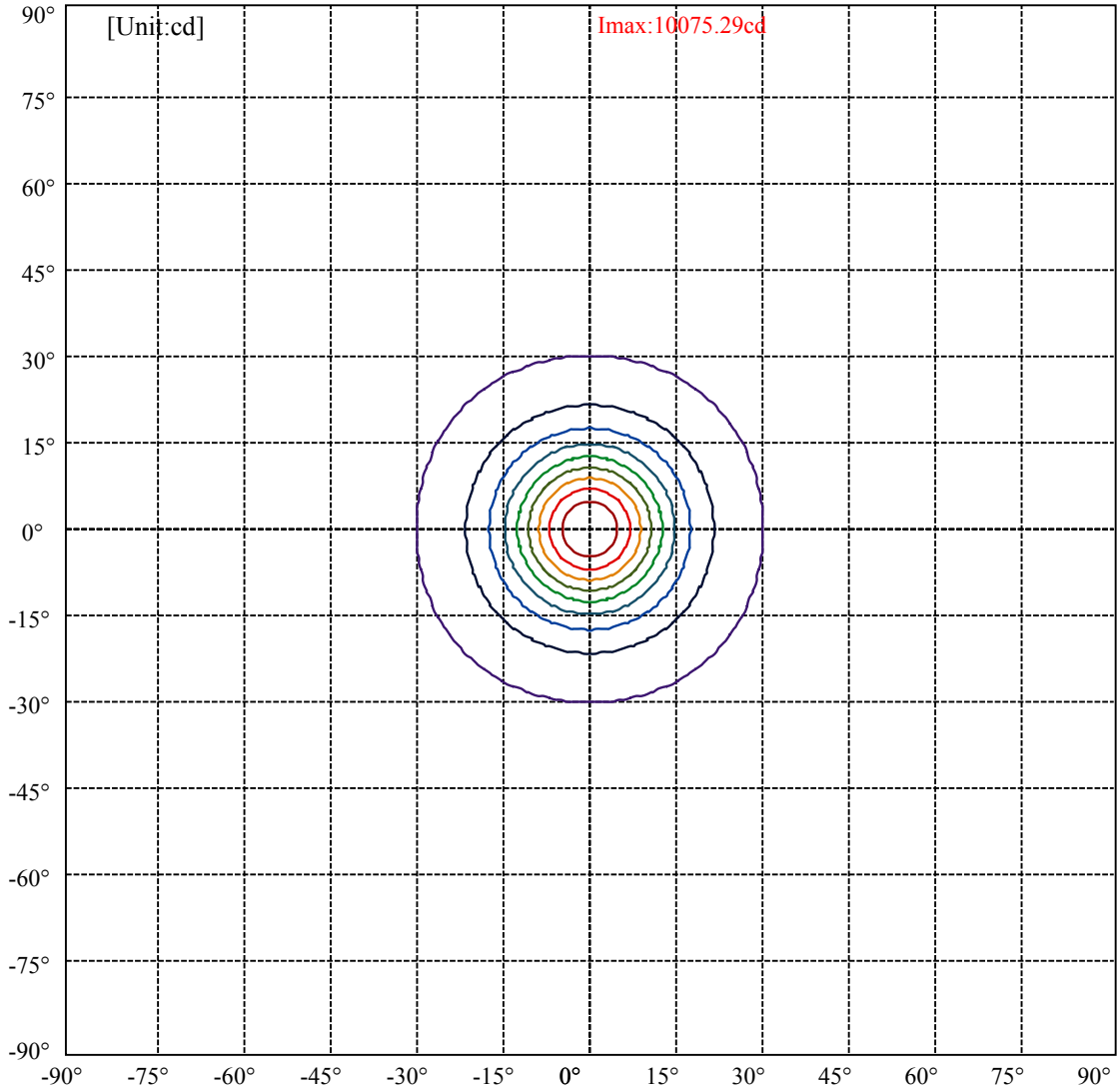
C90/C270: —————

Field angle(10%Imax):C0/180Left:29.8 Right:29.8

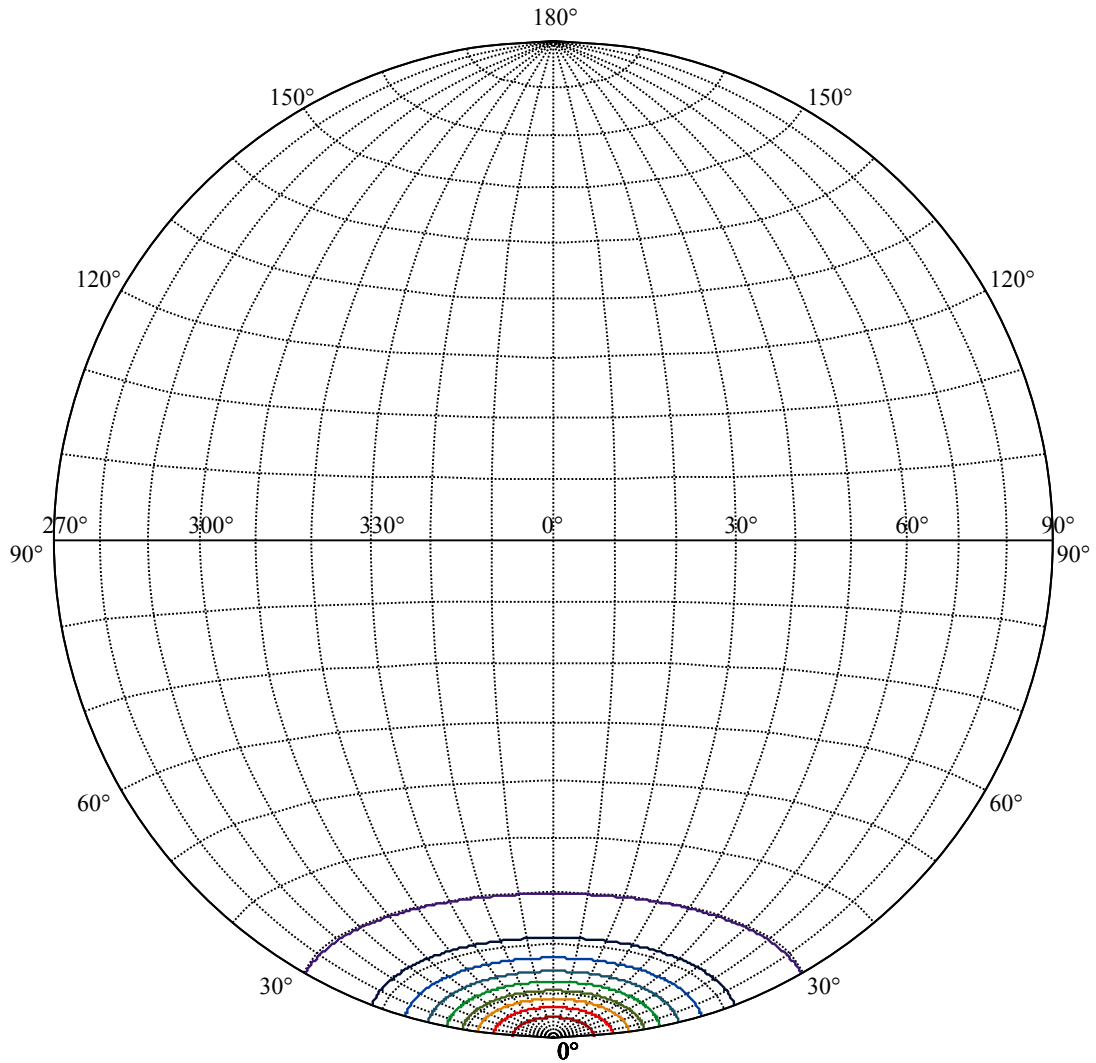
:C90/270Left:29.8 Right:29.8

Beam Angle(50%Imax):C0/180Left:12.4 Right:12.4

:C90/270Left:12.4 Right:12.4



(10%Imax) 1007.53	—
(20%Imax) 2015.06	—
(30%Imax) 3022.59	—
(40%Imax) 4030.12	—
(50%Imax) 5037.65	—
(60%Imax) 6045.18	—
(70%Imax) 7052.71	—
(80%Imax) 8060.23	—
(90%Imax) 9067.76	—



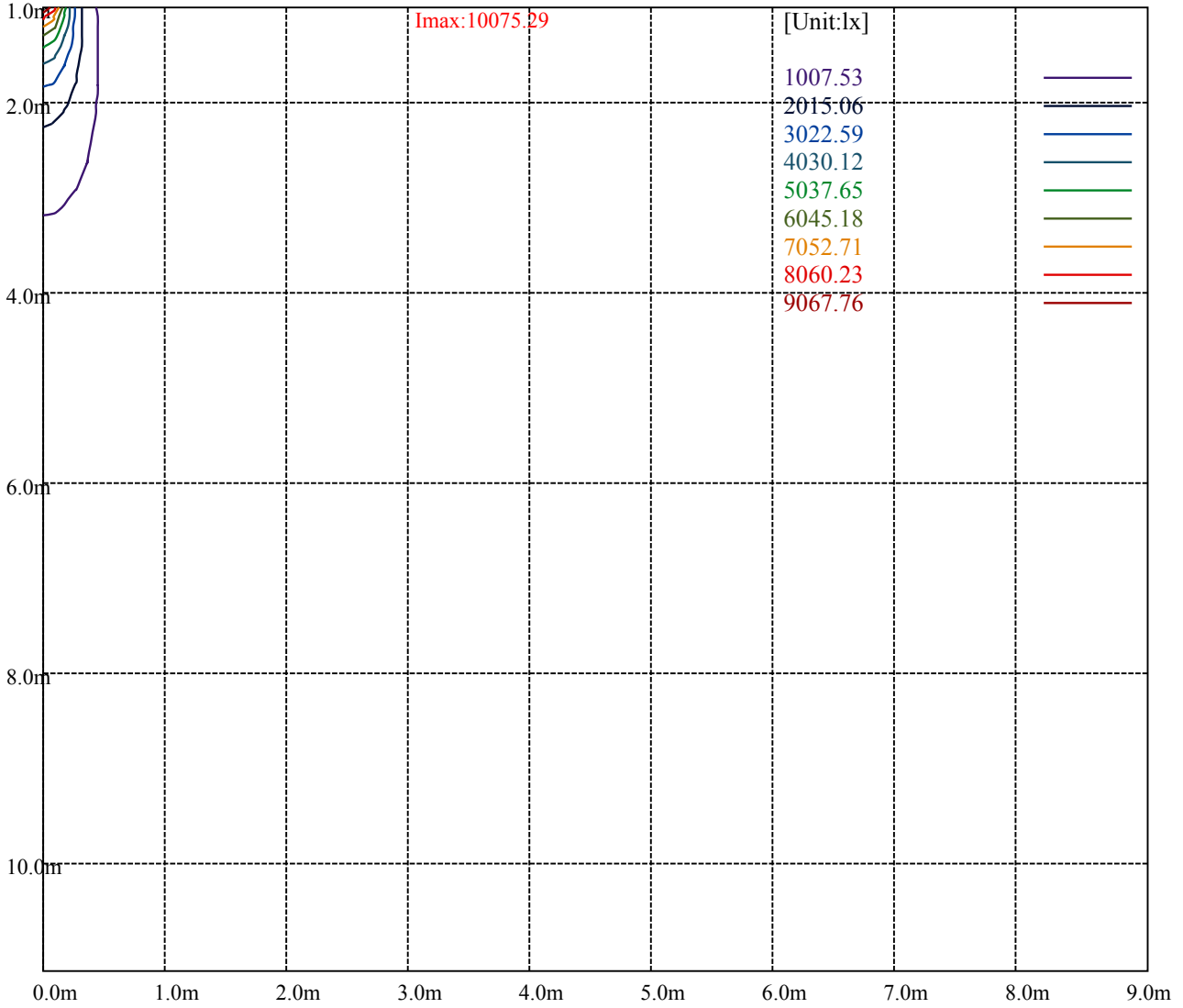
House

[Unit:cd]

Road

Imax:10075.29

(10%Imax)	1007.53	—
(20%Imax)	2015.06	—
(30%Imax)	3022.59	—
(40%Imax)	4030.12	—
(50%Imax)	5037.65	—
(60%Imax)	6045.18	—
(70%Imax)	7052.71	—
(80%Imax)	8060.23	—
(90%Imax)	9067.76	—



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

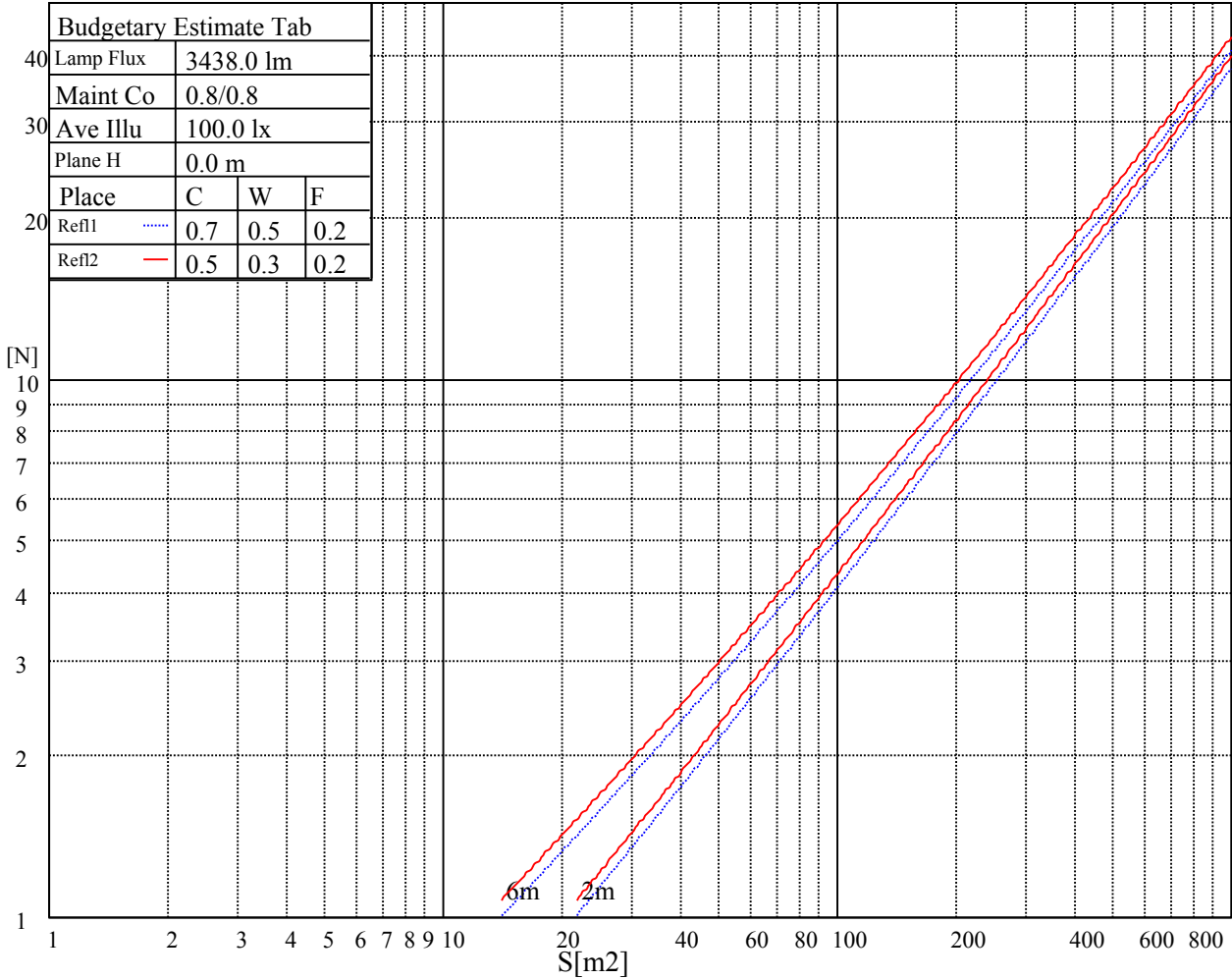
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

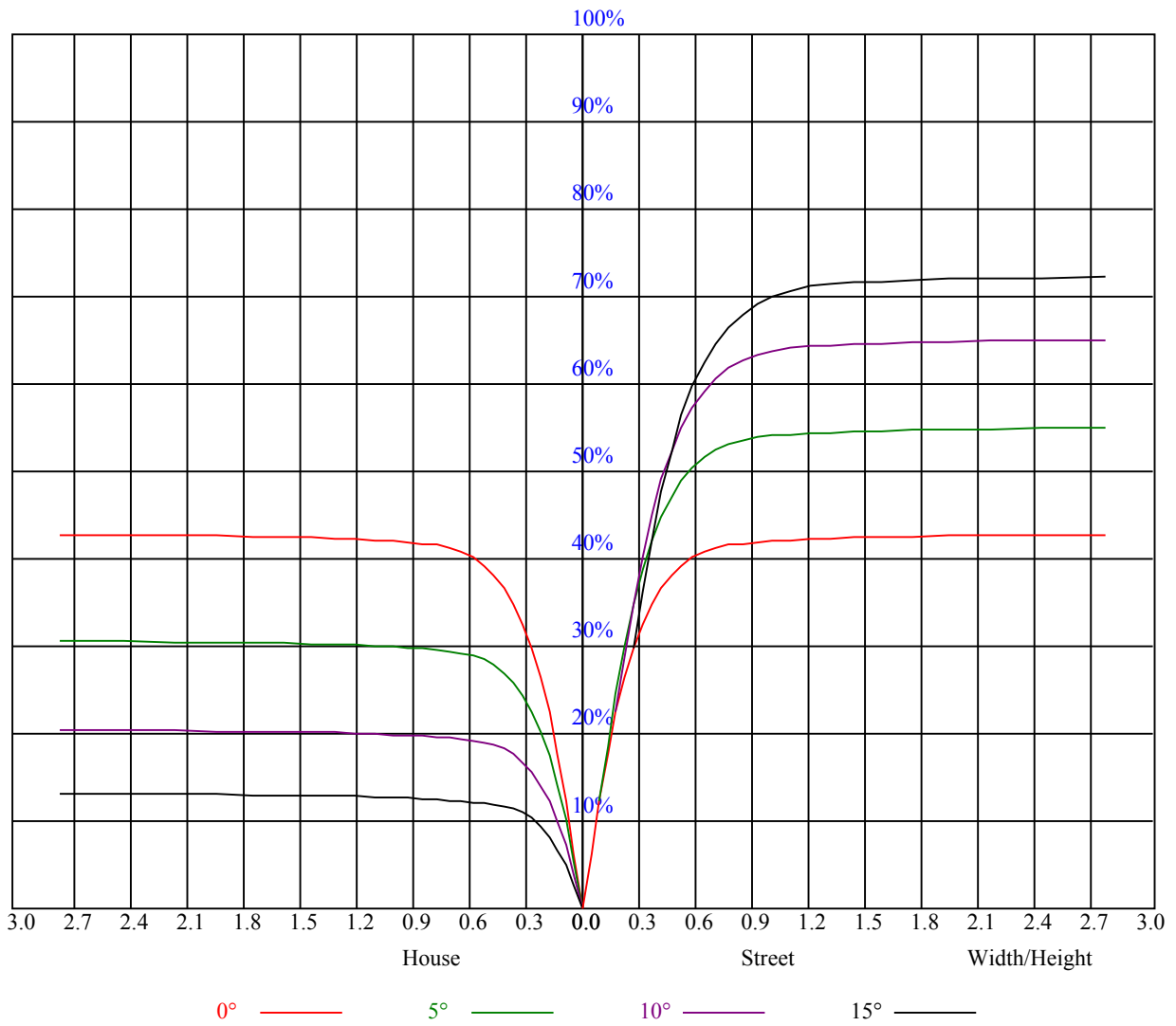


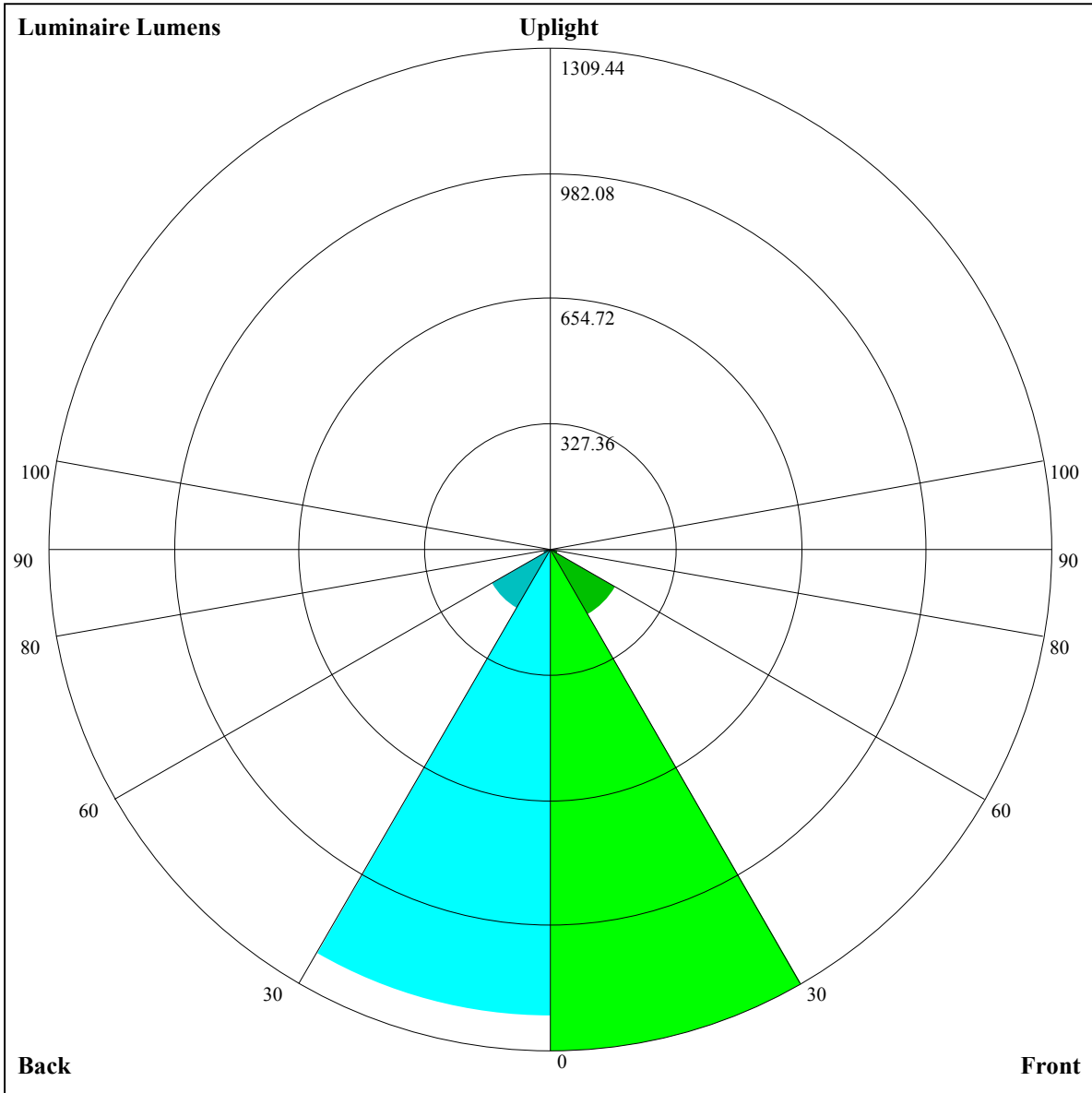
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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	1.00	1.00	1.00	0.96	0.96	0.96	0.92	0.92	0.92	0.88	0.88	0.88	0.86
1	0.96	0.94	0.92	0.94	0.93	0.91	0.91	0.89	0.88	0.88	0.87	0.86	0.85	0.84	0.83	0.82
2	0.91	0.88	0.85	0.89	0.86	0.84	0.86	0.84	0.82	0.84	0.82	0.80	0.82	0.80	0.79	0.77
3	0.86	0.82	0.79	0.85	0.81	0.78	0.82	0.80	0.77	0.80	0.78	0.76	0.79	0.77	0.75	0.74
4	0.81	0.77	0.74	0.81	0.77	0.74	0.79	0.76	0.73	0.77	0.74	0.72	0.76	0.73	0.71	0.70
5	0.78	0.73	0.70	0.77	0.73	0.70	0.75	0.72	0.69	0.74	0.71	0.69	0.73	0.70	0.68	0.67
6	0.74	0.70	0.67	0.74	0.70	0.67	0.72	0.69	0.66	0.71	0.68	0.66	0.70	0.67	0.65	0.64
7	0.71	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.63	0.62
8	0.68	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.61	0.65	0.62	0.60	0.59
9	0.66	0.62	0.59	0.65	0.61	0.59	0.65	0.61	0.58	0.64	0.61	0.58	0.63	0.60	0.58	0.57
10	0.63	0.59	0.56	0.63	0.59	0.56	0.62	0.59	0.56	0.62	0.58	0.56	0.61	0.58	0.56	0.55





Luminaire Lumens:

FL=1309.44,FM=198.28,FH=22.53,FVH=7.52

BL=1217.6,BM=177,BH=21.73,BVH=7.39

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	10116.84	10124.45	10062.42	9912.01	9682.61	9319.18	8938.20	8515.08	8023.49
45.0	10019.11	10091.09	10098.70	10032.57	9835.35	9575.51	9255.39	8870.90	8321.37
90.0	10075.29	9986.92	9814.87	9590.14	9288.75	8820.57	8392.77	7910.54	7280.26
135.0	10089.92	10054.81	9902.65	9686.12	9408.14	8950.49	8534.98	8043.98	7404.33
180.0	10116.84	9998.04	9827.16	9478.36	9164.68	8772.58	8199.06	7677.63	7012.22
225.0	10019.11	9803.16	9533.37	9133.08	8750.93	8297.38	7653.63	7107.62	6566.28
270.0	10075.29	10051.30	9947.13	9762.20	9420.43	9092.70	8707.62	8120.64	7605.64
315.0	10089.92	10015.60	9881.00	9670.32	9382.39	8931.18	8503.38	8015.89	7493.28
360.0	10116.84	10124.45	10062.42	9912.01	9682.61	9319.18	8938.20	8515.08	8023.49
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	7358.09	6807.98	6106.30	5575.50	5078.64	4516.24	4107.17	3717.99	3283.76
45.0	7845.58	7324.73	6781.06	6110.98	5592.47	4986.18	4532.63	4110.09	3634.31
90.0	6745.36	6211.05	5567.89	5081.57	4622.17	4091.95	3717.99	3373.30	3053.18
135.0	6882.89	6364.97	5854.65	5237.24	4776.08	4328.97	3916.97	3465.18	3138.62
180.0	6496.06	5961.16	5450.26	4835.19	4376.96	3981.93	3595.68	3266.78	2906.87
225.0	6037.24	5405.20	4935.85	4484.64	4065.03	3603.29	3273.81	2968.90	2623.62
270.0	7080.11	6405.93	5870.45	5243.09	4766.72	4334.82	3913.46	3555.30	3176.66
315.0	6930.88	6236.80	5705.42	5204.46	4630.36	4213.68	3728.53	3379.73	3060.20
360.0	7358.09	6807.98	6106.30	5575.50	5078.64	4516.24	4107.17	3717.99	3283.76
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2977.68	2699.70	2450.98	2177.10	1990.41	1828.89	1690.77	1536.86	1435.03
45.0	3301.31	2989.97	2657.57	2409.43	2189.39	2006.21	1809.57	1675.56	1555.59
90.0	2709.65	2458.59	2234.45	2043.66	1841.76	1703.06	1556.76	1463.12	1380.02
135.0	2844.25	2518.28	2293.56	2093.41	1881.56	1742.27	1588.94	1485.94	1395.82
180.0	2625.38	2313.45	2103.94	1930.13	1745.78	1619.96	1509.35	1398.75	1327.93
225.0	2377.24	2159.54	1934.81	1784.41	1647.47	1500.58	1406.35	1267.07	1150.03
270.0	2865.91	2589.09	2285.36	2073.51	1897.36	1744.61	1578.41	1468.39	1358.37
315.0	2703.21	2448.05	2225.67	2033.72	1830.06	1694.28	1570.80	1463.71	1356.02
360.0	2977.68	2699.70	2450.98	2177.10	1990.41	1828.89	1690.77	1536.86	1435.03
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1349.59	1161.38	1161.38	1058.26	925.53	815.69	708.01	575.22	474.85
45.0	1457.27	1350.76	1276.43	1191.58	1064.00	956.32	817.03	706.43	598.74
90.0	1152.13	1152.13	1103.91	968.61	858.88	745.58	632.10	522.78	397.66
135.0	1315.06	1210.30	1116.08	1010.74	900.72	791.87	654.34	549.00	450.10
180.0	1246.59	1150.61	1015.42	898.96	784.26	673.07	540.22	441.90	352.95
225.0	1125.74	1019.46	909.32	796.37	659.78	554.09	454.13	342.59	264.64
270.0	1279.95	1196.84	1069.85	960.41	849.22	735.69	598.74	495.16	402.11
315.0	1143.41	1143.41	1067.16	959.01	847.87	708.30	599.86	498.44	378.41
360.0	1349.59	1161.38	1161.38	1058.26	925.53	815.69	708.01	575.22	474.85
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	383.73	298.23	223.44	145.49	103.70	84.10	77.60	71.34	66.48
45.0	497.50	376.94	310.81	310.81	145.55	99.31	84.97	79.01	73.74
90.0	309.70	232.80	166.61	111.60	90.65	81.40	75.85	70.70	67.01
135.0	336.56	296.18	296.18	122.66	96.39	82.87	77.02	71.92	68.18
180.0	311.40	311.40	130.45	94.05	83.92	78.13	72.10	68.30	65.84
225.0	197.63	131.38	99.84	84.16	78.07	72.98	68.71	65.60	62.85
270.0	316.67	296.77	206.53	109.73	84.92	78.65	73.68	68.47	64.90
315.0	292.55	217.24	154.97	102.88	84.04	77.60	72.57	67.83	64.61
360.0	383.73	298.23	223.44	145.49	103.70	84.10	77.60	71.34	66.48

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	62.38	60.16	57.94	56.36	55.48	53.72	52.96	52.20	50.91
45.0	67.53	65.08	62.68	59.75	58.70	57.24	55.60	54.48	53.72
90.0	64.67	62.62	60.10	59.11	57.82	56.36	55.30	54.02	52.49
135.0	64.55	62.15	60.28	58.93	57.12	55.65	54.48	53.49	52.14
180.0	63.56	61.74	59.81	58.76	57.18	55.83	54.72	53.02	51.56
225.0	60.69	59.22	57.88	56.47	55.42	54.37	52.79	51.62	49.80
270.0	62.50	59.69	58.23	57.18	56.12	53.96	53.55	52.61	51.32
315.0	62.56	60.04	58.58	57.29	56.12	54.95	54.07	52.79	51.56
360.0	62.38	60.16	57.94	56.36	55.48	53.72	52.96	52.20	50.91
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	49.57	48.46	46.88	45.18	43.19	40.26	37.92	35.46	31.95
45.0	51.91	50.86	49.45	47.75	45.59	43.54	40.79	37.81	34.82
90.0	50.91	48.98	47.29	45.06	41.90	39.27	35.82	33.18	31.49
135.0	50.56	48.40	46.88	44.36	41.84	39.39	36.93	34.00	31.43
180.0	50.15	48.34	46.06	43.66	41.26	38.04	34.88	32.60	30.72
225.0	48.16	46.47	43.83	41.02	38.80	36.17	32.66	30.67	28.73
270.0	50.10	48.63	46.99	45.12	42.55	39.50	37.22	34.00	31.84
315.0	50.74	49.10	46.88	45.30	42.84	40.26	37.28	34.12	31.60
360.0	49.57	48.46	46.88	45.18	43.19	40.26	37.92	35.46	31.95
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	30.31	28.03	26.16	24.87	23.41	21.54	20.54	19.66	18.79
45.0	32.25	30.26	28.15	26.34	24.76	22.82	21.59	20.37	19.55
90.0	29.26	26.98	25.69	23.99	22.41	21.13	20.13	19.37	18.73
135.0	29.50	27.51	26.04	24.17	22.53	21.24	20.31	19.49	18.73
180.0	28.03	26.51	24.93	22.88	21.77	20.78	19.66	19.02	18.55
225.0	26.74	24.99	23.41	22.06	20.72	19.90	19.14	18.49	18.02
270.0	29.44	27.27	25.93	24.52	22.41	21.36	20.42	19.25	18.67
315.0	29.67	27.62	25.75	24.17	22.65	21.48	20.19	19.37	18.84
360.0	30.31	28.03	26.16	24.87	23.41	21.54	20.54	19.66	18.79
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	18.26	17.85	17.50	17.03	16.68	16.39	15.98	15.68	15.33
45.0	18.90	18.43	17.97	17.56	17.15	16.85	16.44	16.09	15.68
90.0	18.20	17.85	17.38	16.97	16.56	16.21	15.86	15.45	15.04
135.0	18.26	17.79	17.32	16.97	16.56	16.21	15.80	15.45	15.10
180.0	17.97	17.56	17.15	16.74	16.27	15.92	15.57	15.22	14.86
225.0	17.62	17.15	16.74	16.39	16.04	15.63	15.27	14.92	14.63
270.0	18.26	17.73	17.32	16.97	16.50	16.21	15.92	15.39	15.10
315.0	18.38	17.85	17.44	17.09	16.62	16.33	15.98	15.45	15.22
360.0	18.26	17.85	17.50	17.03	16.68	16.39	15.98	15.68	15.33
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	14.92	14.63	14.34	13.99	13.75	13.52	13.17	12.99	12.76
45.0	15.33	15.04	14.57	14.34	13.99	13.75	13.46	13.17	12.93
90.0	14.69	14.40	14.10	13.81	13.58	13.34	13.11	12.82	12.64
135.0	14.81	14.40	14.10	13.75	13.46	13.23	12.93	12.76	12.52
180.0	14.51	14.16	13.81	13.52	13.23	13.05	12.82	12.58	12.93
225.0	14.22	13.93	13.64	13.34	13.17	12.93	13.40	12.58	12.70
270.0	14.75	14.40	14.10	13.87	13.52	13.28	13.05	12.82	12.58
315.0	14.75	14.51	14.16	13.93	13.64	13.46	13.05	12.82	12.70
360.0	14.92	14.63	14.34	13.99	13.75	13.52	13.17	12.99	12.76

Intensity data(cd)

C/γ(°)	90.0
0.0	12.93
45.0	12.87
90.0	12.58
135.0	12.76
180.0	12.64
225.0	12.70
270.0	12.93
315.0	12.52
360.0	12.93