



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: 92.70.412.00

Report No: 2024322-B011

Ballast type: AC

Test No: 2024322-C011

Voltage(V): 34.710

LampCAT: Fortimo_SLM_C_1208

Current(A): 0.577

Lamp flux(lm): 3486.0

Power (W): 20.027

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2997.54, Efficiency(%): 85.99% , Luminous Efficacy(lm/W): 149.67

Central intensity(cd): 12695.580, Maximum intensity(cd): 12695.580

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=19.6

[C90/270]Total=19.6

Field angle(10%Imax): [C0/180]Total=53.2

[C90/270]Total=53.2

Maximum s/h(1/2): C0_180=0.33 C90_270=0.33

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(%): 85.99%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.076%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/3/22
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	12695.579	0.000	0	0.00%	0.00%
1.0	12489.587	12.051	12.051	0.35%	0.40%
2.0	12134.150	35.342	47.393	1.01%	1.58%
3.0	11756.761	57.139	104.532	1.64%	3.49%
4.0	11237.812	76.970	181.502	2.21%	6.06%
5.0	10438.395	93.250	274.752	2.67%	9.17%
6.0	9533.125	104.956	379.708	3.01%	12.67%
7.0	8596.253	112.529	492.237	3.23%	16.42%
8.0	7725.072	116.809	609.045	3.35%	20.32%
9.0	6924.631	118.728	727.773	3.41%	24.28%
10.0	6163.107	118.439	846.212	3.40%	28.23%
11.0	5548.547	117.024	963.236	3.36%	32.13%
12.0	4954.617	114.815	1078.051	3.29%	35.96%
13.0	4451.470	111.627	1189.677	3.20%	39.69%
14.0	4007.211	108.270	1297.948	3.11%	43.30%
15.0	3610.136	104.574	1402.522	3.00%	46.79%
16.0	3246.858	100.474	1502.996	2.88%	50.14%
17.0	2956.074	96.596	1599.592	2.77%	53.36%
18.0	2779.848	94.573	1694.165	2.71%	56.52%
19.0	2566.109	93.009	1787.174	2.67%	59.62%
20.0	2250.761	88.162	1875.336	2.53%	62.56%
21.0	2080.241	83.164	1958.5	2.39%	65.34%
22.0	1921.718	80.421	2038.921	2.31%	68.02%
23.0	1775.485	77.577	2116.498	2.23%	70.61%
24.0	1644.248	74.768	2191.266	2.14%	73.10%
25.0	1498.856	71.467	2262.733	2.05%	75.49%
26.0	1337.115	66.943	2329.677	1.92%	77.72%
27.0	1232.294	62.861	2392.538	1.80%	79.82%
28.0	1148.526	60.277	2452.815	1.73%	81.83%
29.0	1020.925	56.759	2509.574	1.63%	83.72%
30.0	893.887	51.700	2561.274	1.48%	85.45%
31.0	764.201	46.142	2607.416	1.32%	86.99%
32.0	645.379	40.383	2647.799	1.16%	88.33%
33.0	539.029	34.893	2682.692	1.00%	89.50%
34.0	451.421	29.974	2712.666	0.86%	90.50%
35.0	380.777	25.845	2738.511	0.74%	91.36%
36.0	323.044	22.410	2760.921	0.64%	92.11%
37.0	285.144	19.836	2780.756	0.57%	92.77%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	254.280	18.005	2798.762	0.52%	93.37%
39.0	205.414	15.691	2814.452	0.45%	93.89%
40.0	176.284	13.312	2827.764	0.38%	94.34%
41.0	146.774	11.504	2839.268	0.33%	94.72%
42.0	125.904	9.907	2849.175	0.28%	95.05%
43.0	108.662	8.689	2857.864	0.25%	95.34%
44.0	93.519	7.631	2865.495	0.22%	95.59%
45.0	81.683	6.733	2872.228	0.19%	95.82%
46.0	71.873	6.005	2878.234	0.17%	96.02%
47.0	64.382	5.419	2883.653	0.16%	96.20%
48.0	58.961	4.986	2888.639	0.14%	96.37%
49.0	55.077	4.683	2893.322	0.13%	96.52%
50.0	52.268	4.476	2897.798	0.13%	96.67%
51.0	50.578	4.351	2902.149	0.12%	96.82%
52.0	49.700	4.303	2906.452	0.12%	96.96%
53.0	48.800	4.285	2910.737	0.12%	97.10%
54.0	48.047	4.269	2915.005	0.12%	97.25%
55.0	47.835	4.280	2919.285	0.12%	97.39%
56.0	47.242	4.296	2923.582	0.12%	97.53%
57.0	45.940	4.261	2927.842	0.12%	97.67%
58.0	44.214	4.169	2932.011	0.12%	97.81%
59.0	42.107	4.036	2936.047	0.12%	97.95%
60.0	38.844	3.824	2939.871	0.11%	98.08%
61.0	35.538	3.550	2943.421	0.10%	98.19%
62.0	32.480	3.277	2946.698	0.09%	98.30%
63.0	29.195	3.000	2949.698	0.09%	98.40%
64.0	26.196	2.718	2952.416	0.08%	98.49%
65.0	24.089	2.489	2954.904	0.07%	98.58%
66.0	22.312	2.315	2957.22	0.07%	98.65%
67.0	21.134	2.185	2959.404	0.06%	98.73%
68.0	20.220	2.095	2961.499	0.06%	98.80%
69.0	19.444	2.023	2963.522	0.06%	98.87%
70.0	18.778	1.963	2965.485	0.06%	98.93%
71.0	18.186	1.911	2967.396	0.05%	98.99%
72.0	17.674	1.865	2969.261	0.05%	99.06%
73.0	17.235	1.825	2971.086	0.05%	99.12%
74.0	16.862	1.793	2972.879	0.05%	99.18%
75.0	16.496	1.763	2974.641	0.05%	99.24%

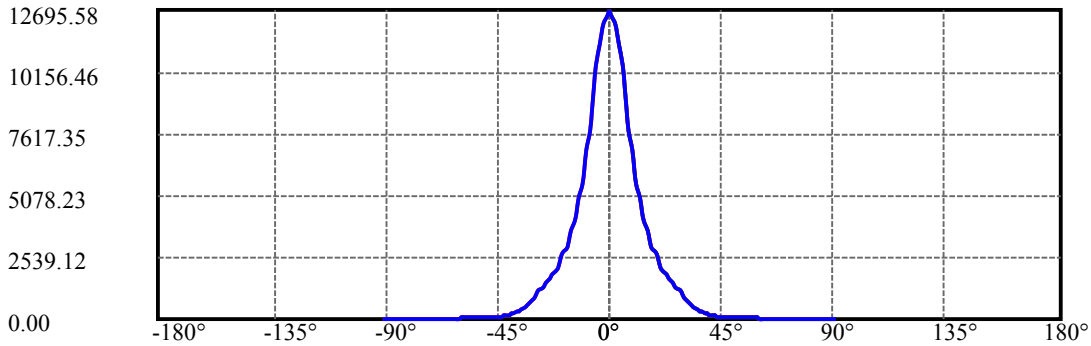
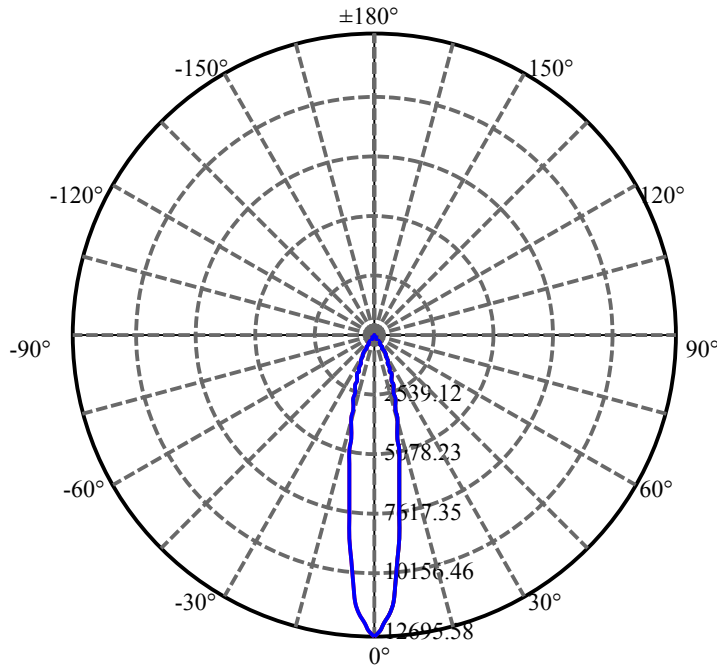
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	16.181	1.735	2976.376	0.05%	99.29%
77.0	15.867	1.709	2978.084	0.05%	99.35%
78.0	15.523	1.680	2979.765	0.05%	99.41%
79.0	15.165	1.649	2981.414	0.05%	99.46%
80.0	14.806	1.616	2983.029	0.05%	99.52%
81.0	14.433	1.581	2984.611	0.05%	99.57%
82.0	14.089	1.547	2986.157	0.04%	99.62%
83.0	13.753	1.514	2987.671	0.04%	99.67%
84.0	13.431	1.481	2989.152	0.04%	99.72%
85.0	13.160	1.451	2990.603	0.04%	99.77%
86.0	12.919	1.426	2992.029	0.04%	99.82%
87.0	12.714	1.403	2993.431	0.04%	99.86%
88.0	12.516	1.382	2994.814	0.04%	99.91%
89.0	12.399	1.366	2996.179	0.04%	99.95%
90.0	12.378	1.358	2997.538	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2561.27	73.47%	85.45%
0-40	2827.76	81.12%	94.34%
0-60	2939.87	84.33%	98.08%
0-90	2996.18	85.95%	99.95%
0-120	2996.18	85.95%	99.95%
0-180	2997.54	85.99%	100.00%
60-90	56.31	1.62%	1.88%
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%
0-27.09	2398.03	68.79%	80.00%

ZONAL LUMEN SUMMARY

0-10	846.21
10-20	1029.12
20-30	685.94
30-40	266.49
40-50	70.03
50-60	42.07
60-70	25.61
70-80	17.54
80-90	13.15
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



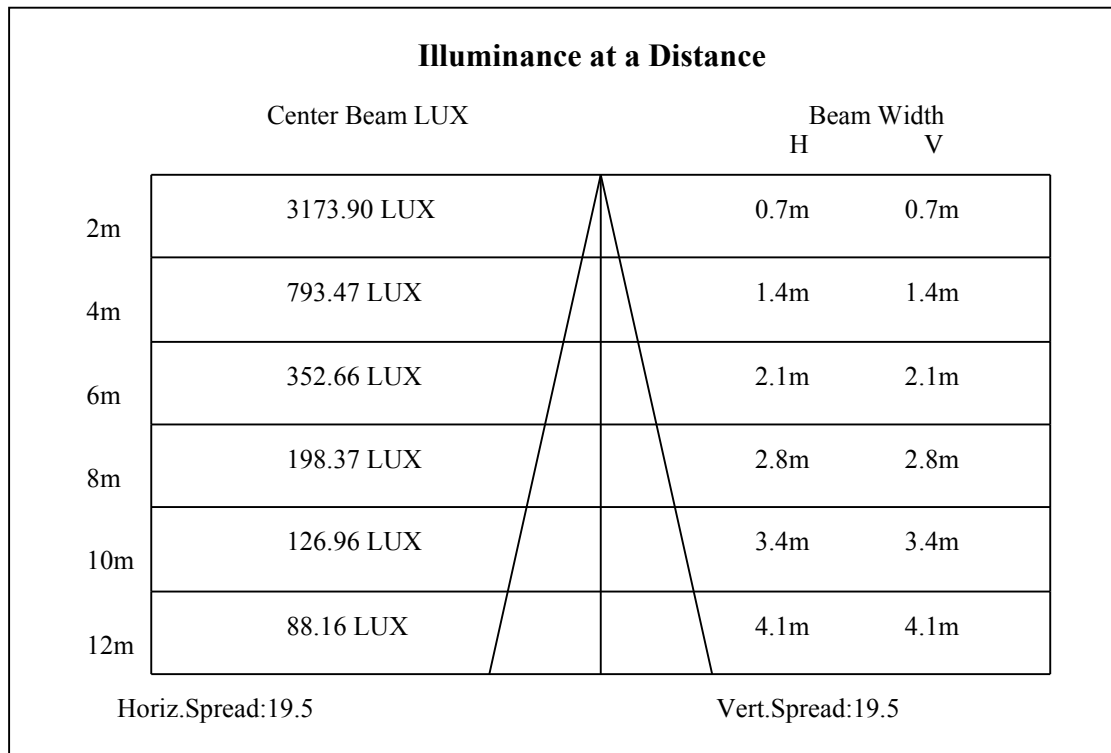
C0(Max): —————

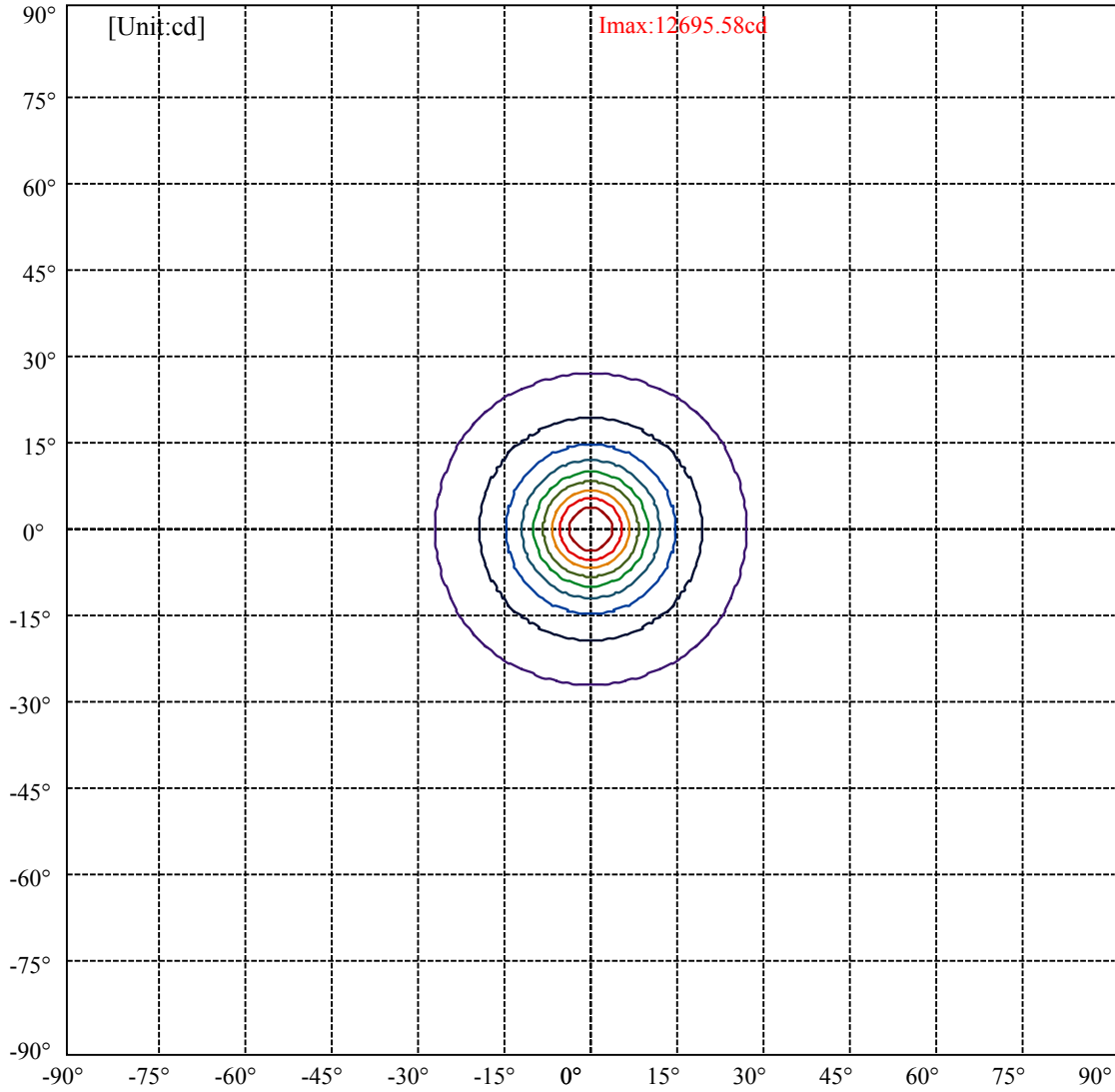
C0/C180: —————

C90/C270: —————

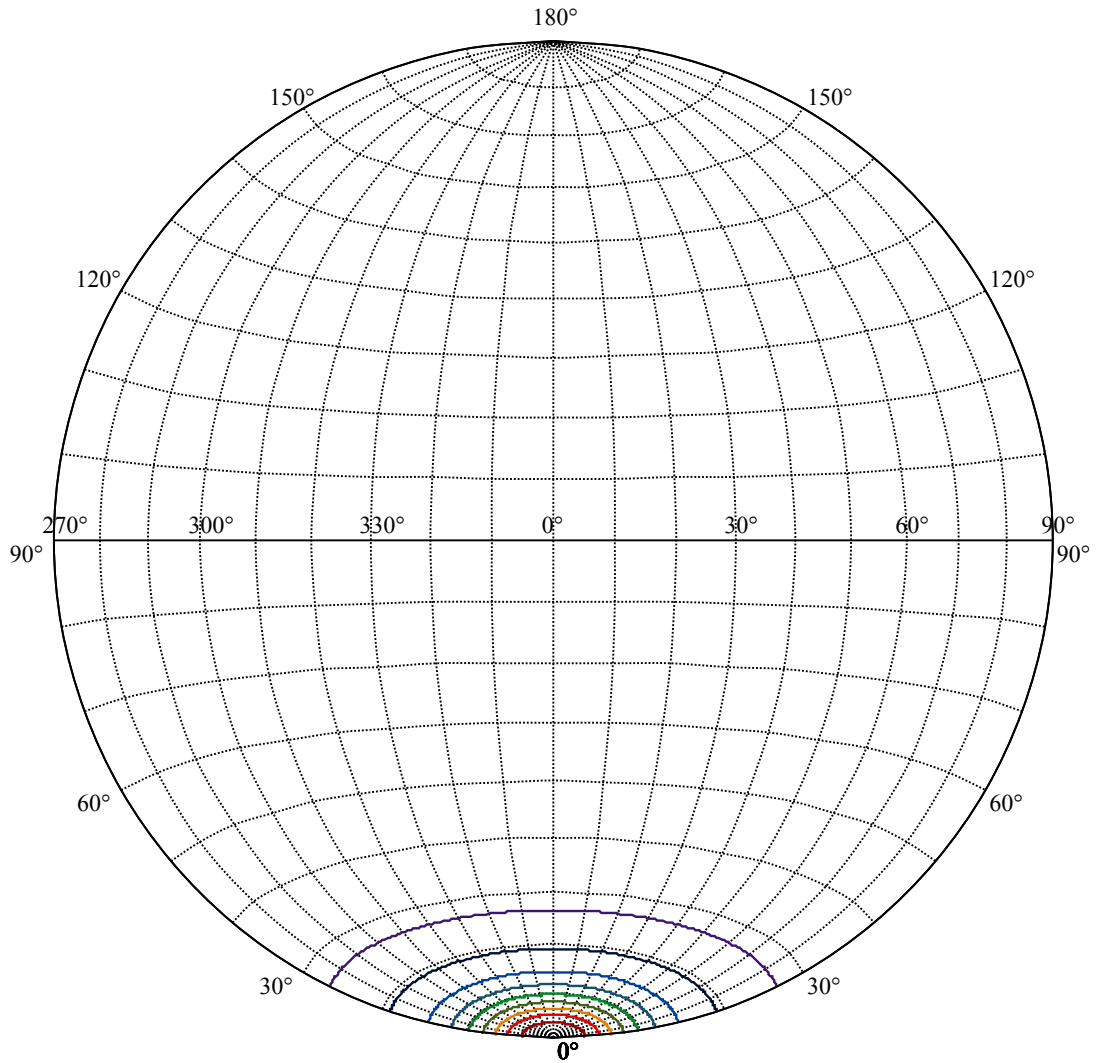
Field angle(10%Imax):C0/180Left:26.6 Right:26.6
:C90/270Left:26.6 Right:26.6

Beam Angle(50%Imax):C0/180Left:9.8 Right:9.8
:C90/270Left:9.8 Right:9.8





(10%Imax) 1269.56	—
(20%Imax) 2539.12	—
(30%Imax) 3808.67	—
(40%Imax) 5078.23	—
(50%Imax) 6347.79	—
(60%Imax) 7617.35	—
(70%Imax) 8886.91	—
(80%Imax) 10156.5	—
(90%Imax) 11426	—



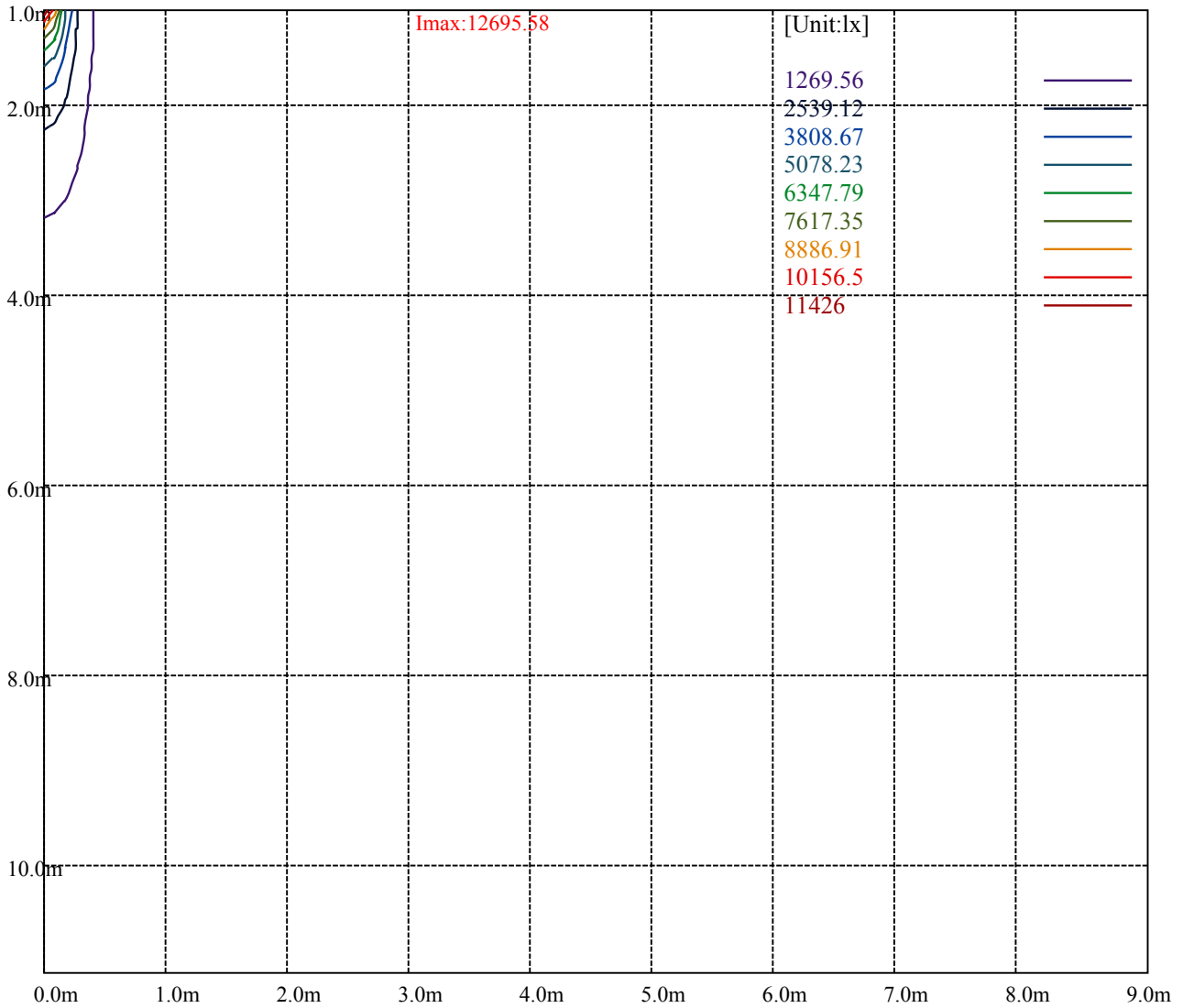
House

[Unit:cd]

Road

Imax:12695.58

(10%Imax)	1269.56	—
(20%Imax)	2539.12	—
(30%Imax)	3808.67	—
(40%Imax)	5078.23	—
(50%Imax)	6347.79	—
(60%Imax)	7617.35	—
(70%Imax)	8886.91	—
(80%Imax)	10156.5	—
(90%Imax)	11426	—



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

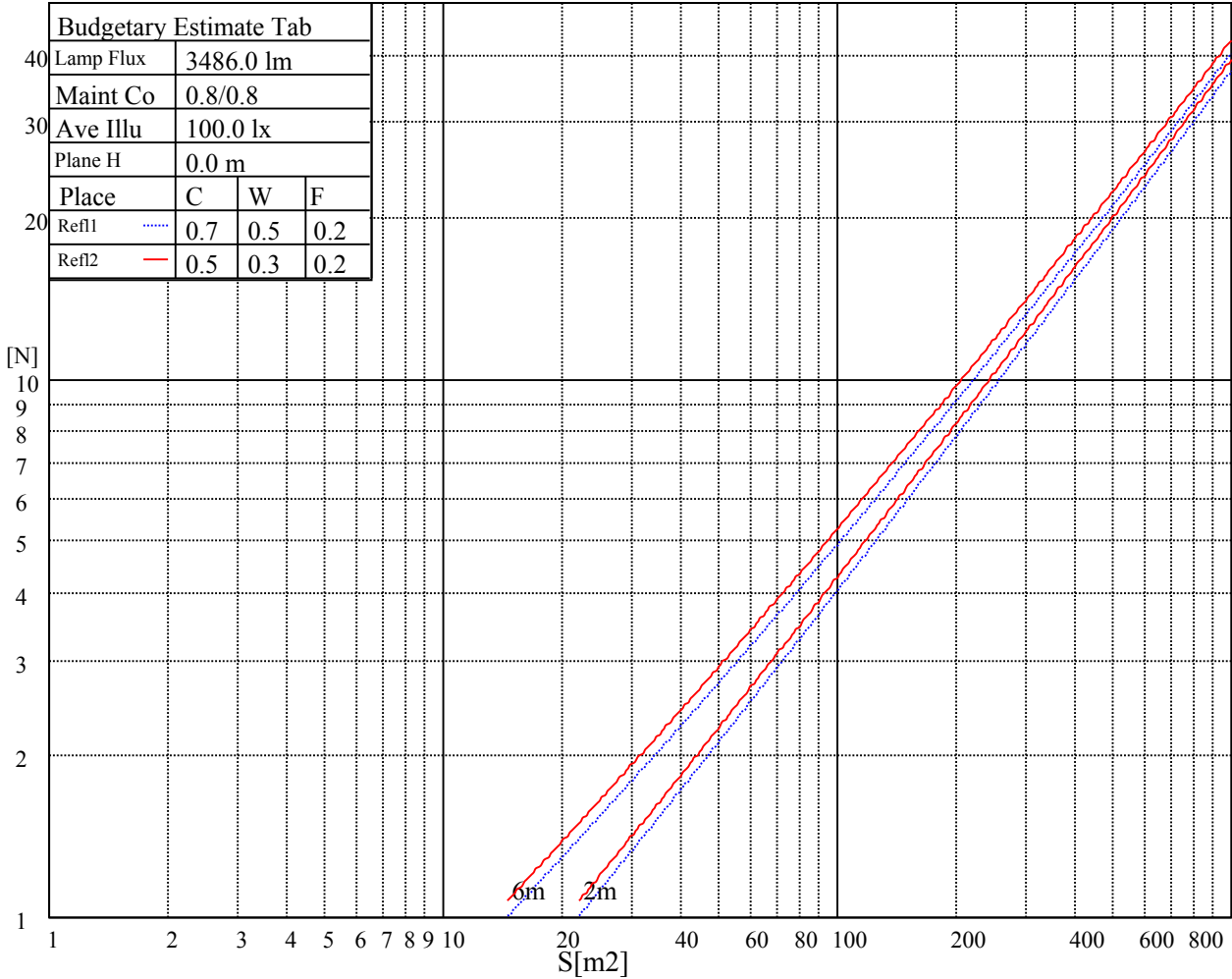
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

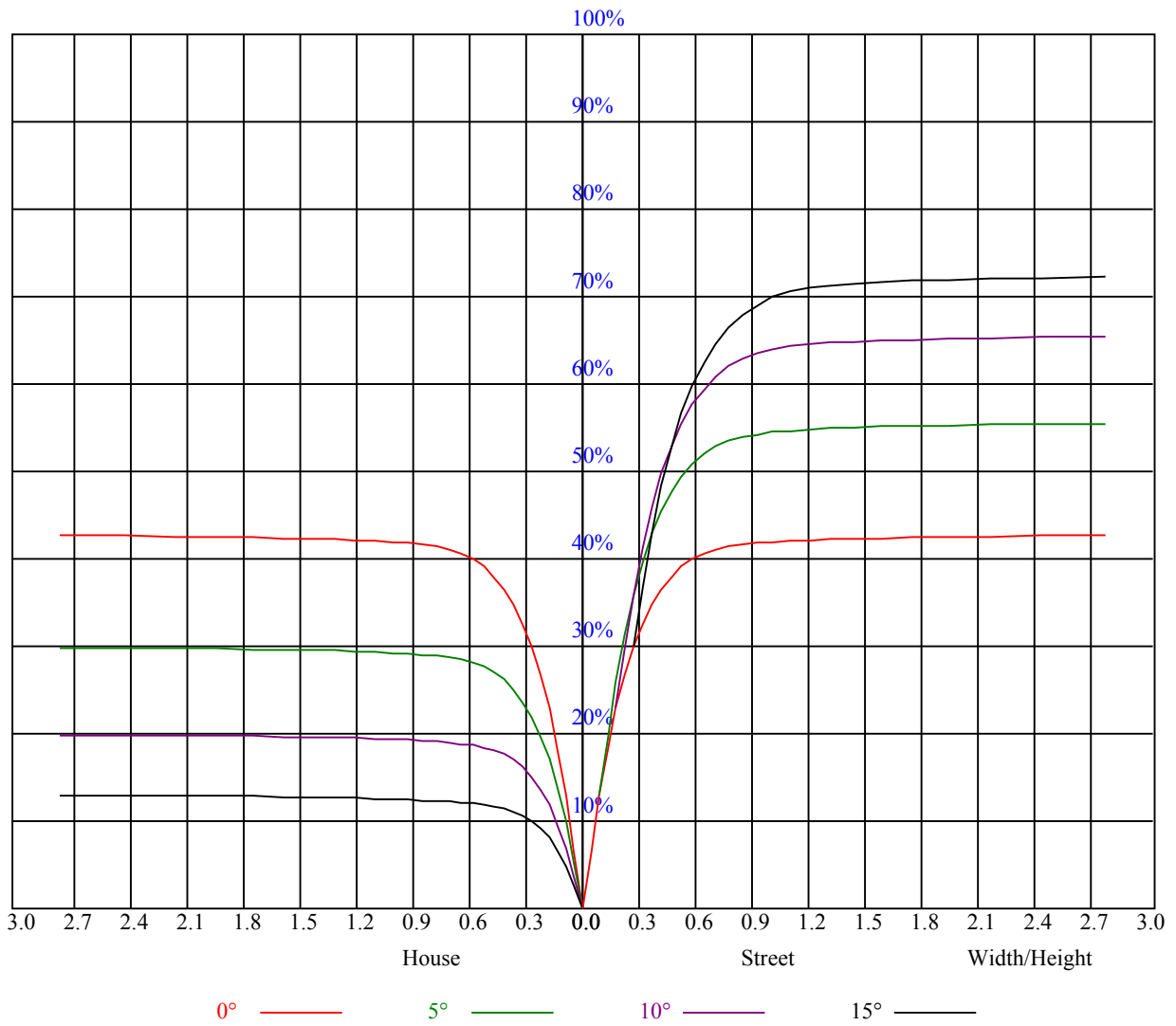


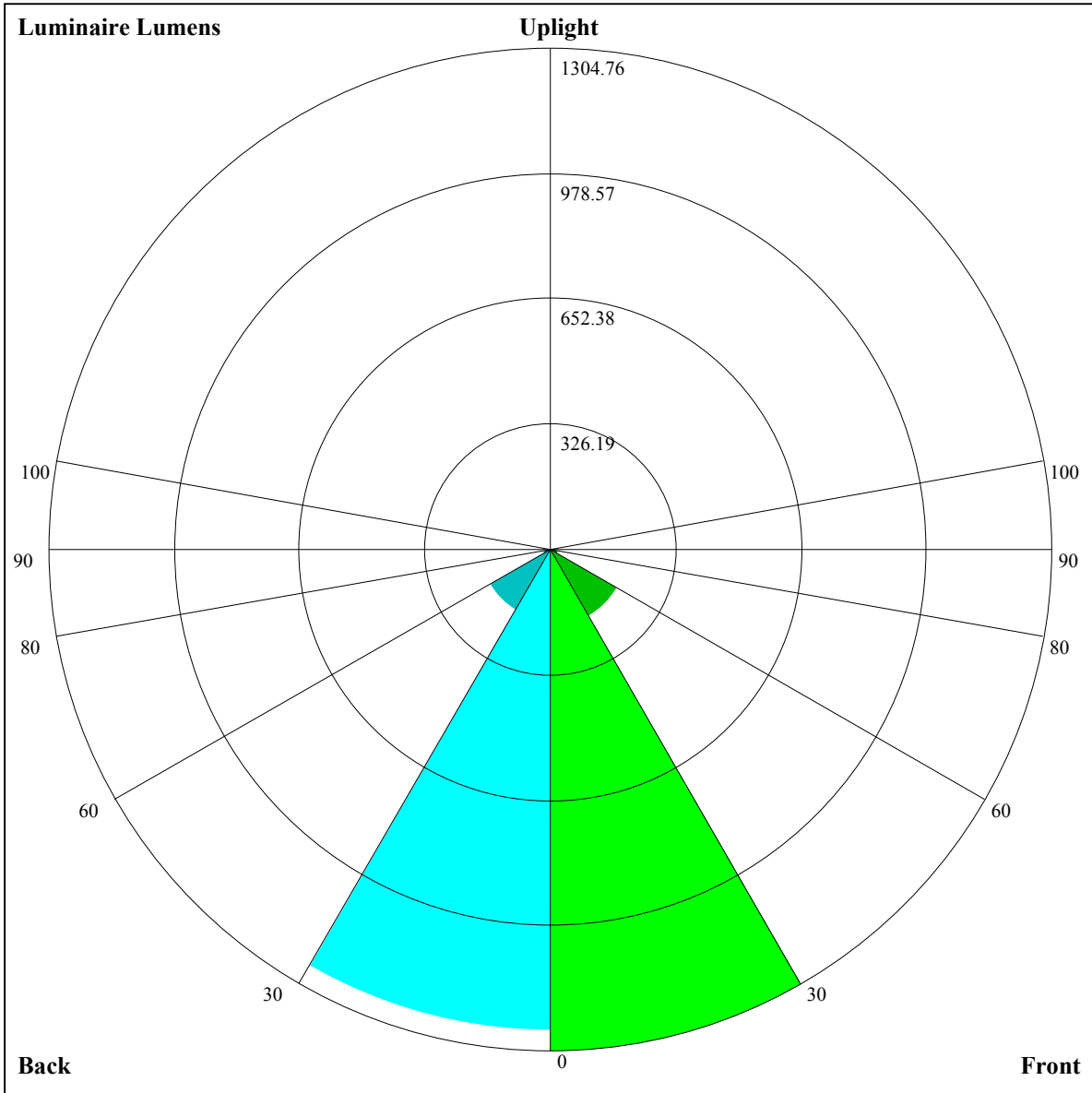
Illumination assessment according UGR										
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30
Rf of Wall	50	30	50	30	30	50	30	50	30	30
Rf of Floor	20	20	20	20	20	20	20	20	20	20
Room dimensions	Viewed crosswise					Viewed endwise				
X	Y									
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	3H	非数字	非数字	非数字	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	1.00	1.00	1.00	0.96	0.96	0.96	0.91	0.91	0.91	0.88	0.88	0.88	0.86
1	0.96	0.94	0.92	0.94	0.92	0.91	0.91	0.89	0.88	0.87	0.86	0.85	0.85	0.84	0.83	0.81
2	0.90	0.87	0.85	0.89	0.86	0.84	0.86	0.84	0.82	0.84	0.82	0.80	0.81	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	0.78	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	0.72	0.70
5	0.78	0.74	0.70	0.77	0.73	0.70	0.76	0.72	0.70	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	0.73	0.69	0.66	0.71	0.68	0.66	0.70	0.68	0.66	0.65
7	0.71	0.67	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
8	0.69	0.64	0.61	0.68	0.64	0.61	0.67	0.64	0.61	0.66	0.63	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	0.61	0.59	0.64	0.61	0.59	0.64	0.61	0.58	0.58
10	0.64	0.60	0.57	0.63	0.59	0.57	0.63	0.59	0.57	0.62	0.59	0.57	0.62	0.59	0.56	0.56





Luminaire Lumens:

FL=1304.76,FM=198.51,FH=21.94,FVH=7.3

BL=1253.55,BM=184.08,BH=21.37,BVH=7.23

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	12755.56	12702.89	12386.87	11595.71	11436.53	10725.48	9691.38	8829.93	7989.55
45.0	12626.81	12732.16	12673.63	12340.05	11901.14	11315.91	10578.53	9536.83	8694.10
90.0	12691.19	12340.05	11623.21	11623.21	10984.73	10215.16	9170.53	8335.42	7362.19
135.0	12708.75	12661.93	12451.25	11953.81	11403.69	10525.86	9700.69	8834.56	7787.00
180.0	12755.56	12568.29	12228.86	11760.68	11157.90	10215.69	9355.41	8471.72	7640.70
225.0	12626.81	11675.30	11675.30	11203.02	10468.56	9413.40	8531.47	7486.26	6734.83
270.0	12691.19	12661.93	12457.10	12000.62	11462.22	10777.50	9993.30	8910.64	8062.06
315.0	12708.75	12574.14	11576.98	11576.98	11087.73	10318.16	9243.69	8364.68	7530.15
360.0	12755.56	12702.89	12386.87	11595.71	11436.53	10725.48	9691.38	8829.93	7989.55
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	7019.25	6321.66	5699.56	5148.87	4533.21	4101.90	3715.07	3361.59	2985.29
45.0	7892.34	6967.69	6294.68	5697.75	5018.89	4544.86	4105.94	3631.91	3292.48
90.0	6645.87	5997.44	5407.54	4764.38	4314.92	3904.68	3451.13	3132.77	2855.96
135.0	7037.92	6341.50	5732.86	5036.45	4562.41	4135.20	3743.10	3315.88	3011.57
180.0	6704.34	6031.33	5305.65	4790.65	4334.18	3830.88	3479.75	3163.73	2953.05
225.0	6057.14	5334.38	4828.16	4378.71	3968.47	3520.19	3202.41	2921.50	2676.88
270.0	7272.01	6376.61	5750.42	5077.41	4597.53	4146.90	3754.80	3327.59	3029.12
315.0	6768.19	5934.24	5369.50	4742.72	4282.15	3873.08	3428.89	3119.89	2844.25
360.0	7019.25	6321.66	5699.56	5148.87	4533.21	4101.90	3715.07	3361.59	2985.29
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2735.40	2511.84	2277.75	2115.06	1927.79	1796.11	1673.22	1555.59	1443.22
45.0	2994.01	2994.01	2474.98	2286.53	2121.50	1973.44	1807.23	1684.92	1566.71
90.0	2619.53	2368.46	2195.82	2041.32	1900.87	1742.86	1623.47	1480.68	1165.65
135.0	3011.57	2733.64	2302.92	2138.47	1989.24	1823.03	1700.14	1581.92	1435.62
180.0	2953.05	2379.00	2208.11	2018.50	1865.76	1735.84	1587.19	1468.39	1360.71
225.0	2409.43	2222.16	2055.37	1871.61	1742.86	1594.80	1480.09	1166.70	1166.70
270.0	2964.75	2964.75	2310.53	2146.66	1972.85	1808.40	1672.63	1558.51	1404.60
315.0	2551.05	2355.00	2180.61	2023.77	1852.88	1729.40	1610.01	1494.14	1153.71
360.0	2735.40	2511.84	2277.75	2115.06	1927.79	1796.11	1673.22	1555.59	1443.22
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1152.95	1152.95	1067.33	919.21	801.29	686.29	578.79	466.01	396.55
45.0	1420.40	1305.11	1190.99	1048.20	931.15	814.11	674.24	571.24	484.04
90.0	1165.65	1108.65	992.60	874.21	727.55	616.89	518.74	438.45	360.67
135.0	1321.50	1206.21	1061.66	941.69	821.13	704.08	570.65	481.11	409.72
180.0	1244.25	1126.03	981.48	859.17	702.91	591.14	493.40	399.77	343.00
225.0	1110.00	991.08	869.88	749.67	608.40	510.49	429.96	365.77	300.10
270.0	1289.89	1173.43	1028.30	904.82	784.26	640.29	539.64	457.12	393.33
315.0	1153.71	1124.74	975.16	854.14	736.92	599.74	506.80	431.90	358.80
360.0	1152.95	1152.95	1067.33	919.21	801.29	686.29	578.79	466.01	396.55
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	328.95	284.36	244.80	203.01	175.45	151.57	127.29	111.08	96.21
45.0	413.23	344.17	297.35	297.35	247.32	181.83	157.66	137.47	115.41
90.0	311.22	269.67	232.86	193.89	168.08	141.86	124.24	108.33	91.30
135.0	339.49	303.79	303.79	207.05	178.73	154.67	130.33	114.12	99.78
180.0	296.18	296.18	247.26	182.53	157.95	137.12	116.11	101.65	88.49
225.0	256.50	219.23	181.13	155.85	134.19	112.36	97.67	85.27	73.27
270.0	328.37	295.60	295.60	210.92	182.41	151.57	130.74	108.73	94.40
315.0	310.40	268.15	231.46	192.71	166.15	143.20	123.19	102.65	89.31
360.0	328.95	284.36	244.80	203.01	175.45	151.57	127.29	111.08	96.21

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	83.57	73.68	64.73	59.28	55.77	52.09	49.98	49.22	48.52
45.0	100.01	87.32	74.97	66.89	60.28	56.83	53.78	52.09	51.32
90.0	80.53	71.92	64.96	59.40	56.01	52.67	51.32	50.45	49.04
135.0	84.45	74.79	67.07	60.80	56.01	53.14	50.80	50.10	48.92
180.0	77.78	67.89	61.57	57.12	53.84	50.68	49.86	49.86	48.75
225.0	66.01	59.87	55.30	52.20	50.56	49.28	48.63	47.58	47.34
270.0	82.28	70.93	64.26	59.28	54.54	52.14	50.27	49.33	48.69
315.0	78.83	68.59	62.21	56.71	53.61	51.32	49.98	48.98	47.81
360.0	83.57	73.68	64.73	59.28	55.77	52.09	49.98	49.22	48.52
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	47.29	47.11	46.76	45.65	44.01	42.66	39.09	35.93	33.53
45.0	49.92	49.28	49.22	48.69	47.34	45.88	43.72	39.74	36.58
90.0	48.28	48.22	47.23	45.59	43.60	40.61	37.45	33.94	31.08
135.0	47.99	47.87	47.70	46.64	44.83	43.01	39.97	36.64	33.42
180.0	48.28	48.34	47.75	46.17	44.59	41.90	38.62	35.00	32.19
225.0	47.52	46.94	45.59	44.01	41.43	38.39	34.70	32.01	28.56
270.0	47.81	47.64	47.34	45.94	44.42	42.96	39.56	36.28	33.18
315.0	47.29	47.29	46.35	44.83	43.48	41.43	37.63	34.76	31.31
360.0	47.29	47.11	46.76	45.65	44.01	42.66	39.09	35.93	33.53
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	30.61	26.63	24.64	22.59	21.30	20.37	19.43	18.84	18.26
45.0	32.95	29.79	26.74	24.17	22.65	21.48	20.60	19.72	19.02
90.0	27.80	25.28	23.17	21.83	20.83	20.07	19.20	18.67	18.14
135.0	29.96	26.98	24.76	22.65	21.48	20.60	19.84	19.08	18.49
180.0	28.50	25.22	23.41	21.89	20.60	19.78	19.14	18.55	17.85
225.0	25.75	23.41	21.89	20.78	19.96	19.14	18.49	17.97	17.38
270.0	29.96	26.80	24.81	22.77	21.48	20.54	19.72	18.90	18.38
315.0	28.03	25.46	23.29	21.83	20.78	19.78	19.14	18.49	17.97
360.0	30.61	26.63	24.64	22.59	21.30	20.37	19.43	18.84	18.26
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	17.67	17.26	16.91	16.56	16.21	15.98	15.63	15.33	14.86
45.0	18.43	17.91	17.50	16.97	16.68	16.27	16.04	15.63	15.22
90.0	17.62	17.21	16.85	16.50	16.21	15.86	15.51	15.16	14.81
135.0	17.91	17.44	17.03	16.62	16.33	16.04	15.68	15.27	14.92
180.0	17.44	17.03	16.68	16.33	16.04	15.74	15.33	14.98	14.69
225.0	17.03	16.56	16.27	16.04	15.74	15.33	14.98	14.69	14.34
270.0	17.85	17.44	16.97	16.62	16.21	15.98	15.63	15.22	14.92
315.0	17.44	17.03	16.68	16.33	16.04	15.74	15.39	15.04	14.69
360.0	17.67	17.26	16.91	16.56	16.21	15.98	15.63	15.33	14.86
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	14.57	14.22	13.87	13.52	13.28	13.05	12.82	12.64	12.41
45.0	14.86	14.46	14.10	13.75	13.46	13.17	12.93	12.70	12.58
90.0	14.40	13.99	13.75	13.34	13.11	12.93	12.70	12.47	12.41
135.0	14.63	14.22	13.81	13.52	13.17	12.93	12.76	12.52	12.35
180.0	14.28	13.99	13.58	13.28	13.05	12.82	12.58	12.41	12.35
225.0	13.99	13.69	13.40	13.11	12.93	12.64	12.52	12.41	12.35
270.0	14.46	14.16	13.81	13.52	13.23	12.99	12.76	12.52	12.41
315.0	14.28	13.99	13.69	13.40	13.05	12.82	12.64	12.47	12.35
360.0	14.57	14.22	13.87	13.52	13.28	13.05	12.82	12.64	12.41

Intensity data(cd)

C/γ(°)	90.0
0.0	12.41
45.0	12.47
90.0	12.41
135.0	12.35
180.0	12.35
225.0	12.41
270.0	12.35
315.0	12.29
360.0	12.41