



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: 1-1378-L

Luminaire: 92.70.427.00

Report No: 20231121-B008

Ballast type: AC

Test No: 20231121-C008

Voltage(V): 34.670

LampCAT: CITIZEN CLU028

Current(A): 0.282

Lamp flux(lm): 1238.1

Power (W): 9.776

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1125.59, Efficiency(%): 90.92% , Luminous Efficacy(lm/W): 115.14

Central intensity(cd): 3867.280, Maximum intensity(cd): 3867.280

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=26.6

[C90/270]Total=26.6

Field angle(10%Imax): [C0/180]Total=55.0

[C90/270]Total=55.0

Maximum s/h(1/2): C0_180=0.44 C90_270=0.44

Maximum s/h(1/4): C0_180=0.46 C90_270=0.46

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 90.92%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.047%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3867.279	0.000	0	0.00%	0.00%
1.0	3847.560	3.691	3.691	0.30%	0.33%
2.0	3796.012	10.971	14.662	0.89%	1.30%
3.0	3711.943	17.957	32.619	1.45%	2.90%
4.0	3599.022	24.472	57.091	1.98%	5.07%
5.0	3461.122	30.372	87.463	2.45%	7.77%
6.0	3309.523	35.582	123.045	2.87%	10.93%
7.0	3141.386	40.041	163.085	3.23%	14.49%
8.0	2957.612	43.649	206.735	3.53%	18.37%
9.0	2765.535	46.383	253.118	3.75%	22.49%
10.0	2567.923	48.266	301.384	3.90%	26.78%
11.0	2383.595	49.476	350.86	4.00%	31.17%
12.0	2175.812	49.841	400.7	4.03%	35.60%
13.0	1984.842	49.376	450.077	3.99%	39.99%
14.0	1799.891	48.444	498.521	3.91%	44.29%
15.0	1616.048	46.896	545.417	3.79%	48.46%
16.0	1424.234	44.549	589.965	3.60%	52.41%
17.0	1312.282	42.615	632.58	3.44%	56.20%
18.0	1144.263	40.503	673.083	3.27%	59.80%
19.0	1056.735	38.293	711.376	3.09%	63.20%
20.0	951.833	36.762	748.138	2.97%	66.47%
21.0	855.704	34.708	782.847	2.80%	69.55%
22.0	759.700	32.462	815.309	2.62%	72.43%
23.0	683.236	30.277	845.586	2.45%	75.12%
24.0	607.513	28.220	873.806	2.28%	77.63%
25.0	537.746	26.041	899.847	2.10%	79.94%
26.0	473.702	23.875	923.722	1.93%	82.07%
27.0	411.734	21.662	945.385	1.75%	83.99%
28.0	357.218	19.468	964.853	1.57%	85.72%
29.0	307.289	17.385	982.238	1.40%	87.26%
30.0	273.032	15.669	997.907	1.27%	88.66%
31.0	223.151	13.808	1011.715	1.12%	89.88%
32.0	194.713	11.971	1023.686	0.97%	90.95%
33.0	149.884	10.152	1033.838	0.82%	91.85%
34.0	124.020	8.289	1042.127	0.67%	92.58%
35.0	103.117	7.054	1049.181	0.57%	93.21%
36.0	85.051	5.991	1055.173	0.48%	93.74%
37.0	71.033	5.091	1060.263	0.41%	94.20%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	59.879	4.370	1064.633	0.35%	94.58%
39.0	50.026	3.751	1068.384	0.30%	94.92%
40.0	43.363	3.257	1071.641	0.26%	95.21%
41.0	37.737	2.888	1074.529	0.23%	95.46%
42.0	33.288	2.580	1077.11	0.21%	95.69%
43.0	29.877	2.340	1079.449	0.19%	95.90%
44.0	27.179	2.153	1081.603	0.17%	96.09%
45.0	24.840	1.999	1083.602	0.16%	96.27%
46.0	22.806	1.863	1085.465	0.15%	96.43%
47.0	21.194	1.750	1087.215	0.14%	96.59%
48.0	19.547	1.647	1088.862	0.13%	96.74%
49.0	18.260	1.553	1090.415	0.13%	96.87%
50.0	16.966	1.469	1091.883	0.12%	97.01%
51.0	15.956	1.393	1093.276	0.11%	97.13%
52.0	15.022	1.329	1094.606	0.11%	97.25%
53.0	14.184	1.270	1095.876	0.10%	97.36%
54.0	13.437	1.217	1097.093	0.10%	97.47%
55.0	12.794	1.171	1098.264	0.09%	97.57%
56.0	12.247	1.132	1099.396	0.09%	97.67%
57.0	11.749	1.097	1100.493	0.09%	97.77%
58.0	11.327	1.067	1101.56	0.09%	97.86%
59.0	10.925	1.040	1102.6	0.08%	97.96%
60.0	10.566	1.015	1103.616	0.08%	98.05%
61.0	10.247	0.993	1104.609	0.08%	98.14%
62.0	9.915	0.972	1105.58	0.08%	98.22%
63.0	9.638	0.951	1106.531	0.08%	98.31%
64.0	9.341	0.931	1107.463	0.08%	98.39%
65.0	9.078	0.912	1108.374	0.07%	98.47%
66.0	8.787	0.891	1109.266	0.07%	98.55%
67.0	8.538	0.871	1110.137	0.07%	98.63%
68.0	8.289	0.852	1110.989	0.07%	98.70%
69.0	8.061	0.834	1111.823	0.07%	98.78%
70.0	7.839	0.817	1112.64	0.07%	98.85%
71.0	7.583	0.797	1113.437	0.06%	98.92%
72.0	7.362	0.777	1114.214	0.06%	98.99%
73.0	7.161	0.759	1114.974	0.06%	99.06%
74.0	6.968	0.743	1115.716	0.06%	99.12%
75.0	6.760	0.725	1116.442	0.06%	99.19%

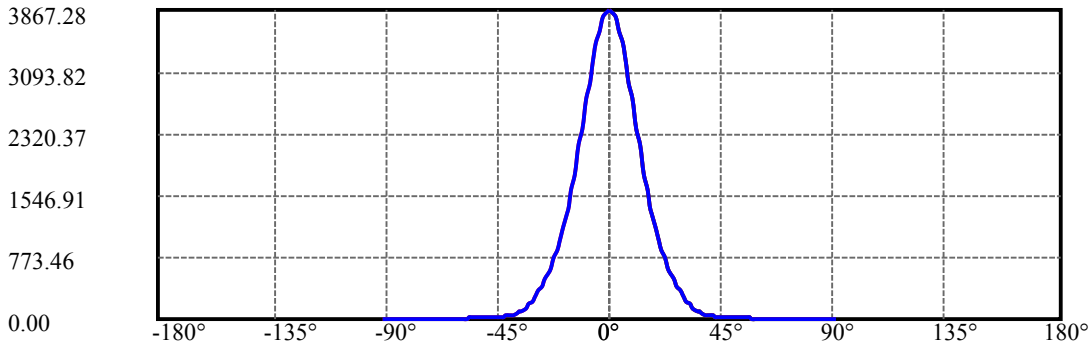
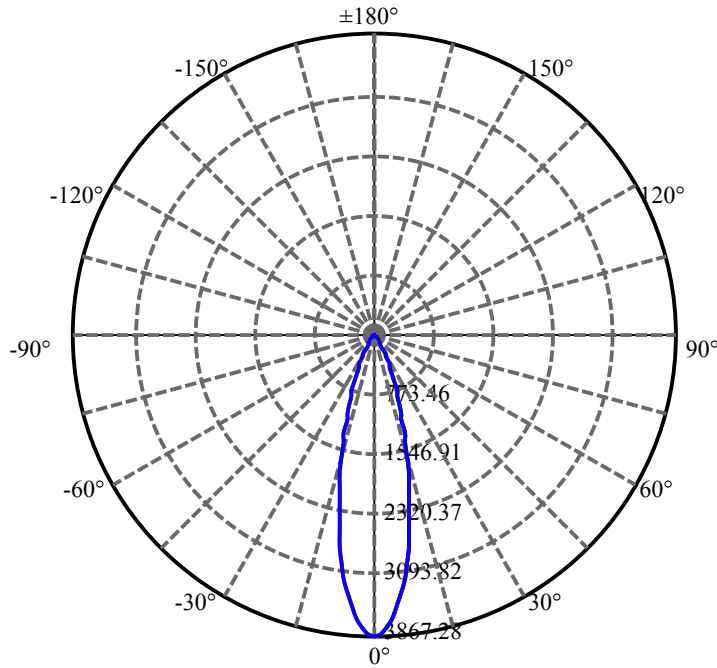
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	6.559	0.707	1117.149	0.06%	99.25%
77.0	6.400	0.691	1117.84	0.06%	99.31%
78.0	6.227	0.676	1118.516	0.05%	99.37%
79.0	6.061	0.660	1119.176	0.05%	99.43%
80.0	5.916	0.646	1119.822	0.05%	99.49%
81.0	5.764	0.632	1120.453	0.05%	99.54%
82.0	5.646	0.619	1121.072	0.05%	99.60%
83.0	5.508	0.606	1121.678	0.05%	99.65%
84.0	5.390	0.594	1122.272	0.05%	99.70%
85.0	5.245	0.580	1122.853	0.05%	99.76%
86.0	5.120	0.567	1123.419	0.05%	99.81%
87.0	5.030	0.556	1123.975	0.04%	99.86%
88.0	4.940	0.546	1124.521	0.04%	99.90%
89.0	4.899	0.539	1125.06	0.04%	99.95%
90.0	4.843	0.534	1125.594	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	997.91	80.60%	88.66%
0-40	1071.64	86.56%	95.21%
0-60	1103.62	89.14%	98.05%
0-90	1125.06	90.87%	99.95%
0-120	1125.06	90.87%	99.95%
0-180	1125.59	90.92%	100.00%
60-90	21.44	1.73%	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%
0-25.03	900.48	72.73%	80.00%

ZONAL LUMEN SUMMARY

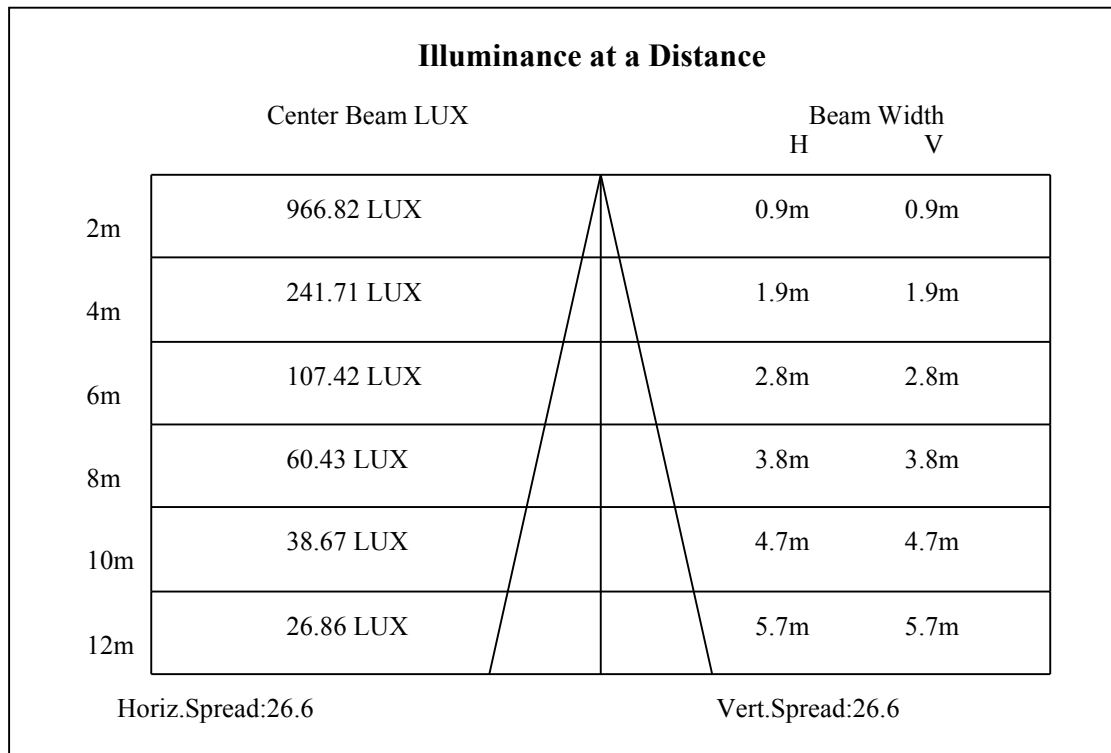
0-10	301.38
10-20	446.75
20-30	249.77
30-40	73.73
40-50	20.24
50-60	11.73
60-70	9.02
70-80	7.18
80-90	5.24
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

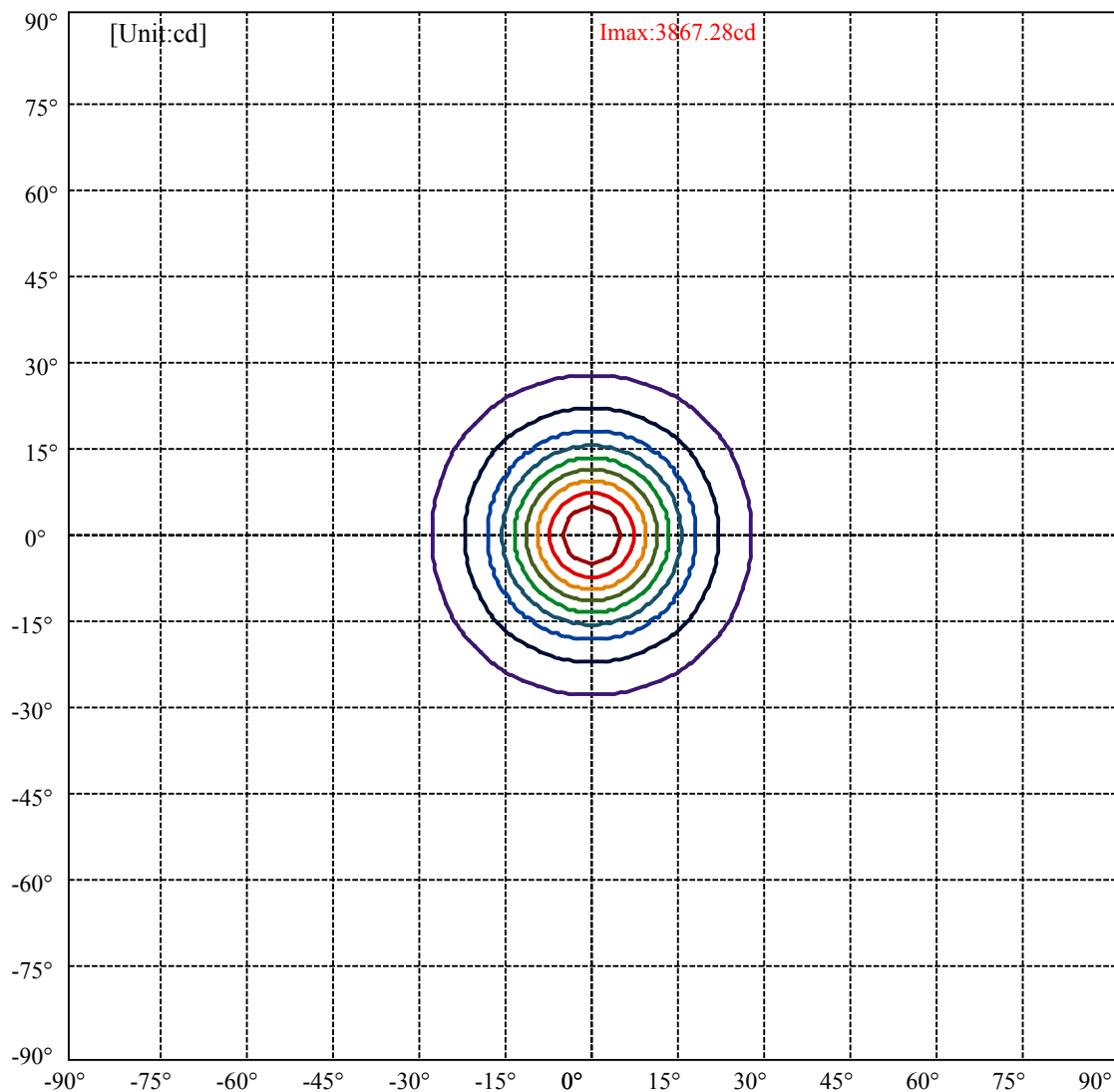


C0(Max): —————
C0/C180: —————
C90/C270: —————

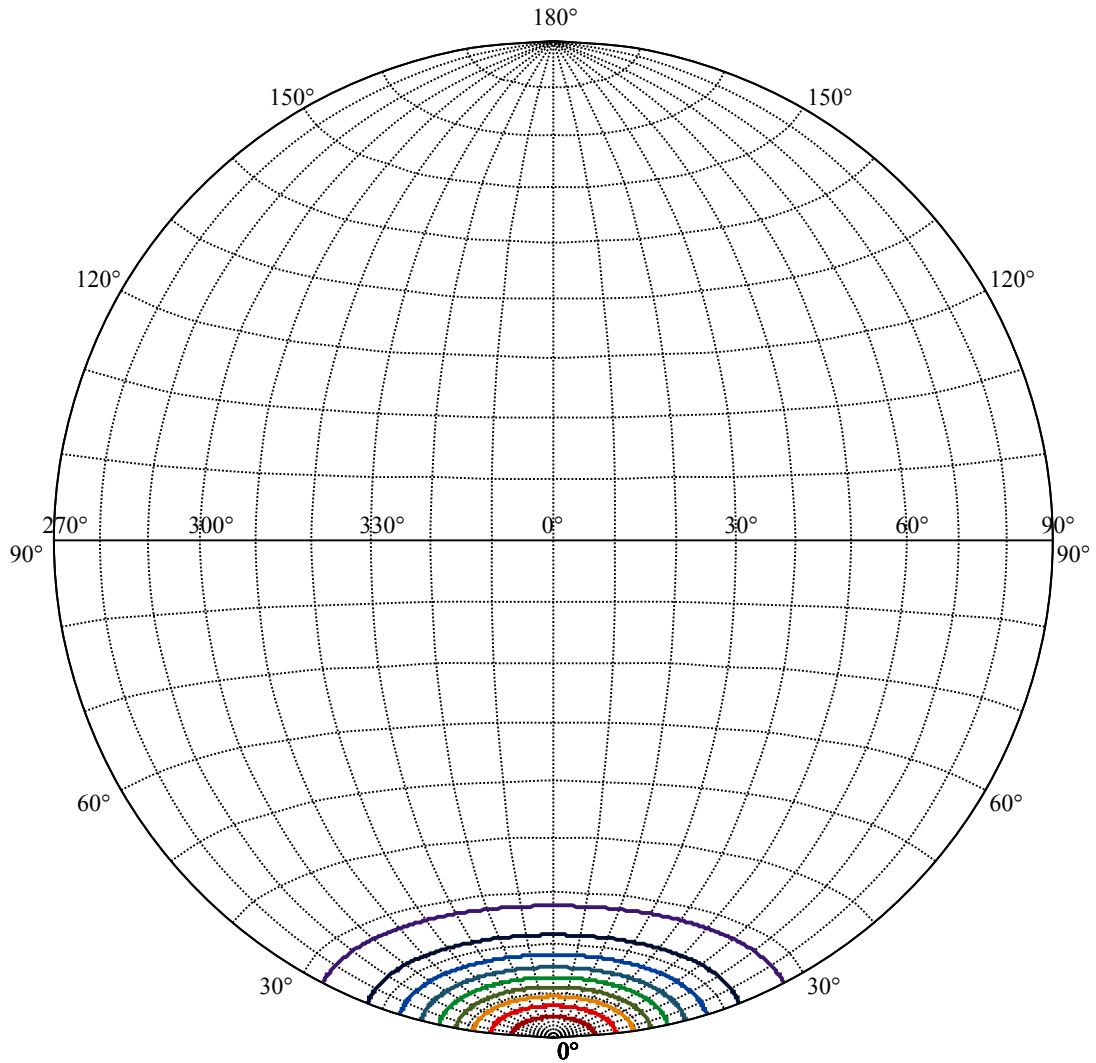
Field angle(10%Imax):C0/180Left:27.5 Right:27.5
:C90/270Left:27.5 Right:27.5

Beam Angle(50%Imax):C0/180Left:13.3 Right:13.3
:C90/270Left:13.3 Right:13.3





(10%I _{max}) 386.728	—
(20%I _{max}) 773.456	—
(30%I _{max}) 1160.18	—
(40%I _{max}) 1546.91	—
(50%I _{max}) 1933.64	—
(60%I _{max}) 2320.37	—
(70%I _{max}) 2707.1	—
(80%I _{max}) 3093.82	—
(90%I _{max}) 3480.55	—



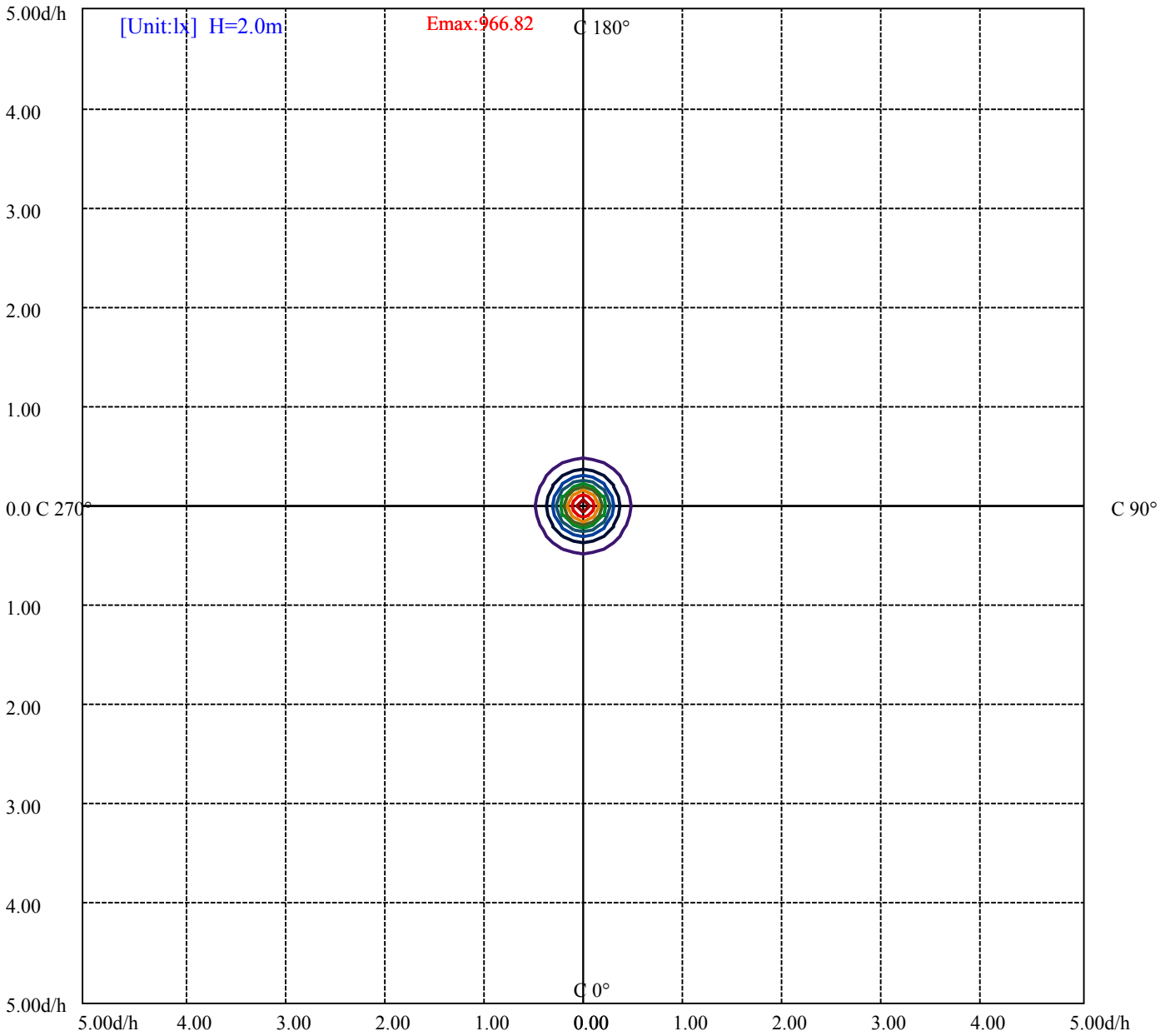
House

[Unit:cd]

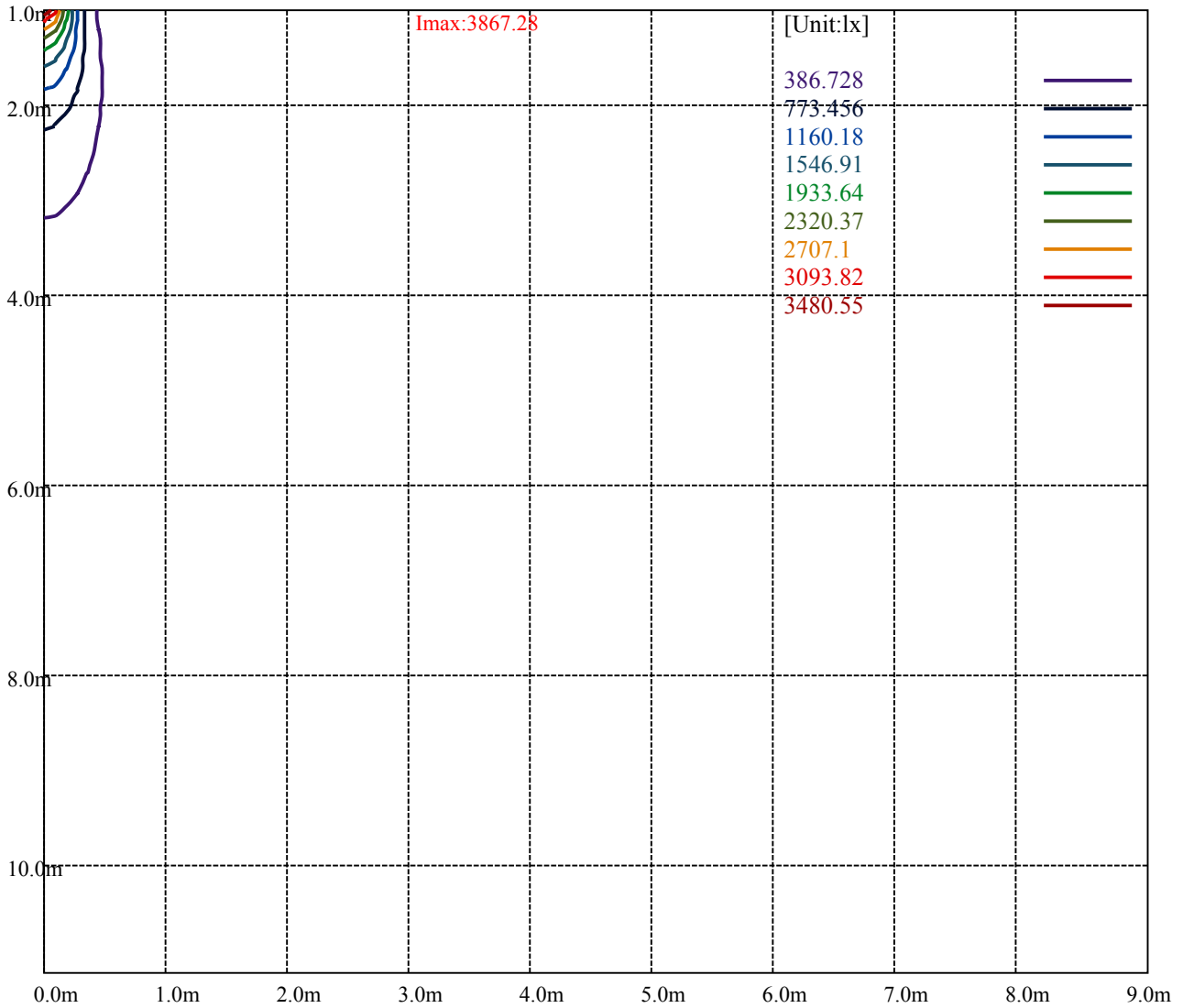
Road

I_{max}:3867.28

(10%I _{max})	386.728	—
(20%I _{max})	773.456	—
(30%I _{max})	1160.18	—
(40%I _{max})	1546.91	—
(50%I _{max})	1933.64	—
(60%I _{max})	2320.37	—
(70%I _{max})	2707.1	—
(80%I _{max})	3093.82	—
(90%I _{max})	3480.55	—



(10%Emax) 96.682	—
(20%Emax) 193.3638	—
(30%Emax) 290.045	—
(40%Emax) 386.7275	—
(50%Emax) 483.41	—
(60%Emax) 580.0925	—
(70%Emax) 676.7725	—
(80%Emax) 773.455	—
(90%Emax) 870.1375	—



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

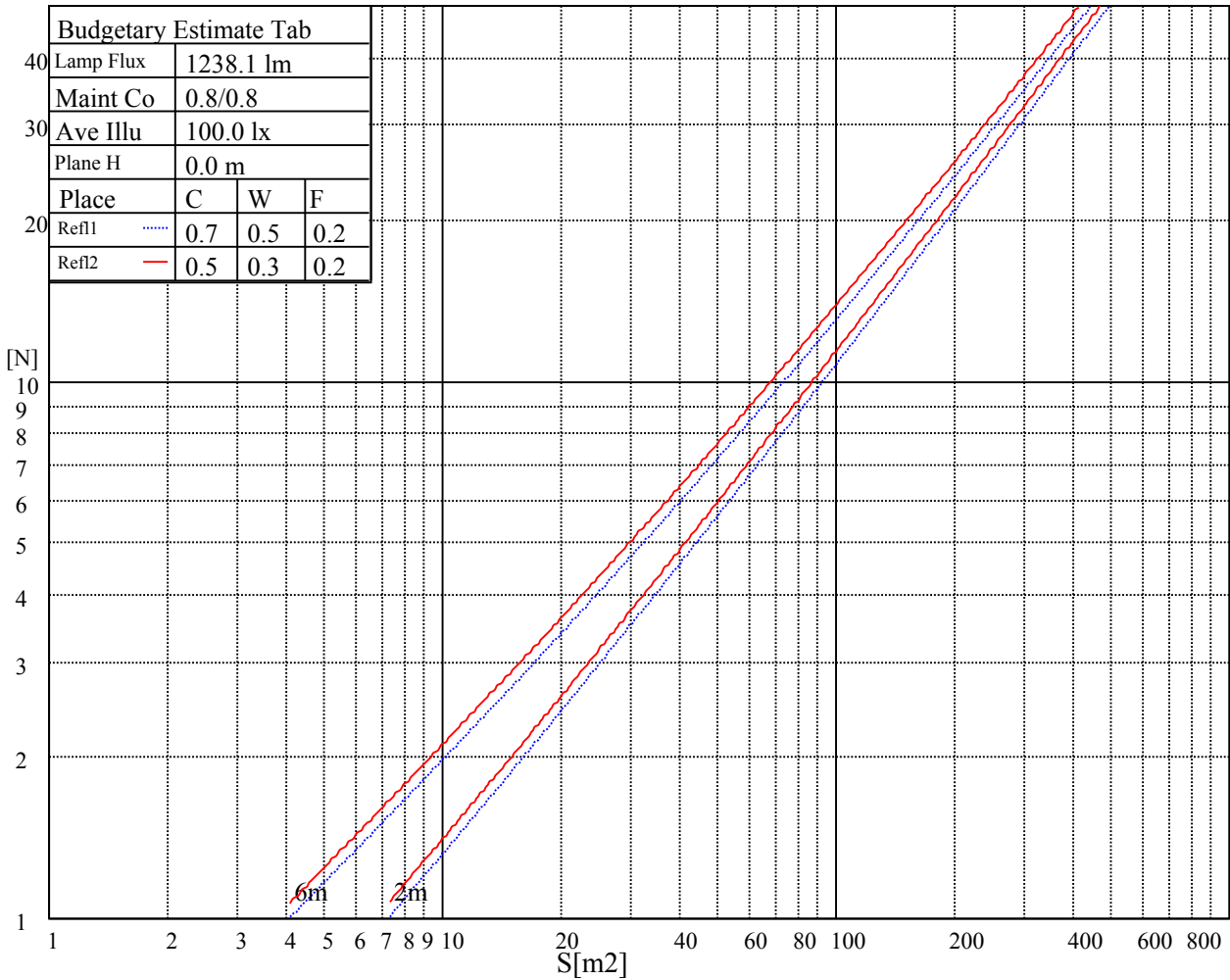
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

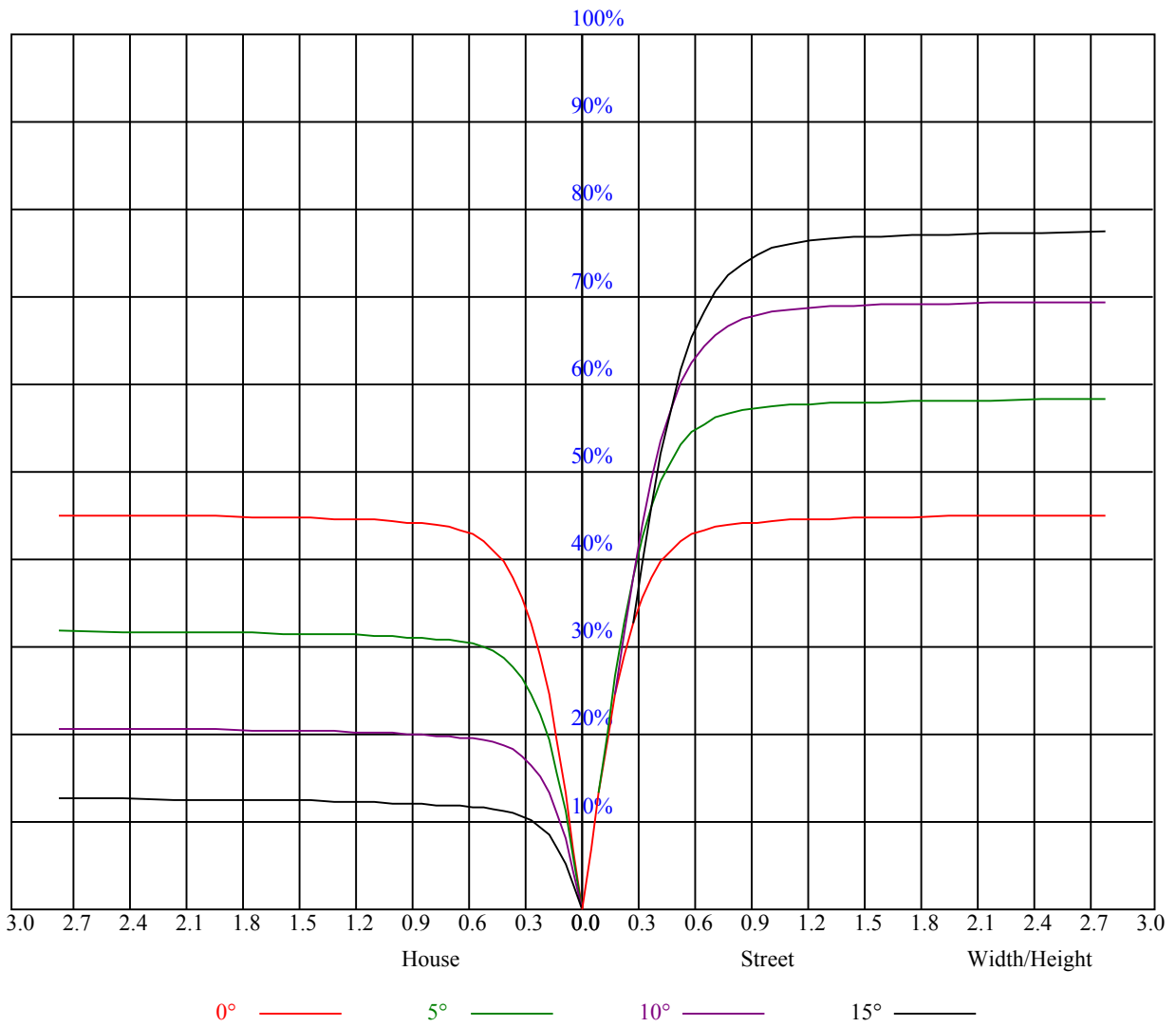


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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	1.08	1.08	1.08	1.06	1.06	1.06	1.01	1.01	1.01	0.97	0.97	0.97	0.93	0.93	0.93	0.91
1	1.02	1.00	0.98	1.00	0.98	0.96	0.96	0.95	0.93	0.93	0.91	0.90	0.90	0.89	0.88	0.86
2	0.96	0.93	0.90	0.94	0.92	0.89	0.91	0.89	0.87	0.89	0.87	0.85	0.86	0.85	0.84	0.82
3	0.91	0.87	0.84	0.90	0.86	0.84	0.87	0.85	0.82	0.85	0.83	0.81	0.83	0.81	0.80	0.78
4	0.87	0.83	0.79	0.86	0.82	0.79	0.84	0.81	0.78	0.82	0.79	0.77	0.80	0.78	0.76	0.75
5	0.83	0.78	0.75	0.82	0.78	0.75	0.80	0.77	0.74	0.79	0.76	0.74	0.78	0.75	0.73	0.72
6	0.79	0.75	0.72	0.79	0.75	0.72	0.77	0.74	0.71	0.76	0.73	0.71	0.75	0.72	0.70	0.69
7	0.76	0.72	0.69	0.76	0.72	0.69	0.75	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.68	0.67
8	0.73	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.65	0.70	0.67	0.65	0.64
9	0.71	0.66	0.64	0.70	0.66	0.63	0.69	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.63	0.62
10	0.68	0.64	0.61	0.68	0.64	0.61	0.67	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.61	0.60



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	3865.34	3805.01	3696.51	3579.72	3440.23	3253.13	3091.50	2916.03	2740.56
45.0	3881.39	3847.08	3776.22	3660.53	3543.74	3397.05	3234.86	3024.52	2847.39
90.0	3831.02	3735.26	3632.30	3508.86	3362.18	3157.37	2988.54	2809.75	2632.62
135.0	3891.36	3834.90	3765.15	3671.60	3518.83	3373.80	3217.70	3056.07	2843.51
180.0	3865.34	3894.13	3878.63	3828.25	3727.51	3628.43	3500.01	3359.96	3165.12
225.0	3881.39	3887.48	3853.72	3788.95	3683.23	3568.09	3434.14	3240.95	3071.02
270.0	3831.02	3881.95	3902.98	3873.64	3819.40	3740.80	3611.82	3483.40	3288.56
315.0	3891.36	3894.68	3862.57	3783.97	3697.07	3570.31	3397.60	3240.40	3072.12
360.0	3865.34	3805.01	3696.51	3579.72	3440.23	3253.13	3091.50	2916.03	2740.56
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2503.64	2312.12	2123.36	1943.46	1727.03	1569.83	1422.59	1102.64	1102.64
45.0	2669.15	2452.16	2267.84	2081.30	1861.54	1696.03	1538.28	1353.95	1223.31
90.0	2402.90	2213.04	2029.26	1808.96	1648.43	1463.55	1230.51	1088.14	1088.14
135.0	2662.51	2475.97	2291.64	2065.24	1895.86	1724.82	1531.63	1388.82	1229.40
180.0	2992.42	2821.93	2642.58	2408.99	2210.82	2028.71	1812.28	1645.66	1489.57
225.0	2883.37	2656.97	2470.98	2280.01	2092.37	1875.93	1705.44	1546.03	1398.79
270.0	3115.85	2943.15	2763.81	2531.32	2343.67	2158.79	1975.57	1756.92	1598.06
315.0	2894.44	2668.04	2479.29	2287.21	2099.01	1881.47	1712.09	1511.71	1368.34
360.0	2503.64	2312.12	2123.36	1943.46	1727.03	1569.83	1422.59	1102.64	1102.64
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1023.82	925.51	816.08	737.92	645.31	576.78	512.96	454.07	384.65
45.0	1107.07	1003.01	883.44	796.54	717.38	642.66	556.30	490.43	430.10
90.0	965.20	875.31	791.06	714.23	623.39	554.53	490.82	433.58	366.05
135.0	1117.04	1015.74	919.98	813.14	736.76	664.24	582.32	520.32	461.65
180.0	1322.40	1192.87	1073.31	950.97	862.41	778.83	708.53	619.41	555.75
225.0	1083.05	1083.05	1004.89	909.40	801.63	722.36	634.57	569.53	506.93
270.0	1448.05	1270.92	1143.61	1036.77	911.12	822.55	742.29	648.74	578.45
315.0	1087.48	1087.48	982.30	886.65	779.60	703.93	632.30	565.88	506.04
360.0	1023.82	925.51	816.08	737.92	645.31	576.78	512.96	454.07	384.65
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	333.17	285.79	245.11	200.55	169.27	142.42	114.08	95.15	79.54
45.0	359.24	309.43	286.73	286.73	183.88	155.77	125.87	106.06	88.90
90.0	315.07	271.07	221.53	188.65	159.58	128.70	107.66	90.28	72.40
135.0	402.97	336.00	287.84	287.84	236.53	165.62	139.33	111.81	93.38
180.0	498.18	439.51	371.98	321.60	286.18	286.18	185.38	149.51	125.38
225.0	434.25	380.06	327.97	280.14	228.28	192.91	162.02	136.11	109.27
270.0	515.90	456.11	387.48	335.44	289.50	289.50	199.00	169.27	143.64
315.0	435.08	379.78	329.69	283.30	231.99	196.62	165.73	133.96	112.42
360.0	333.17	285.79	245.11	200.55	169.27	142.42	114.08	95.15	79.54
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	64.27	54.86	47.22	40.19	35.76	32.27	28.78	26.46	24.36
45.0	74.34	59.95	50.98	43.78	38.30	33.10	29.95	26.74	24.52
90.0	61.39	52.64	45.56	38.86	34.60	31.27	28.62	25.79	23.80
135.0	77.83	62.66	53.31	45.83	40.08	34.71	31.33	28.67	26.35
180.0	104.90	87.79	73.56	59.45	50.59	43.67	37.03	32.99	29.84
225.0	91.33	76.50	61.77	52.64	45.33	38.36	34.15	30.89	27.62
270.0	116.13	97.98	82.59	67.03	57.12	49.15	41.46	36.75	32.94
315.0	90.23	75.89	64.04	52.42	45.11	39.36	34.98	30.72	28.01
360.0	64.27	54.86	47.22	40.19	35.76	32.27	28.78	26.46	24.36

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	22.58	20.54	19.15	17.93	16.83	15.61	14.72	13.84	13.23
45.0	22.69	20.70	19.26	17.99	16.61	15.67	14.78	14.00	13.17
90.0	21.64	20.20	18.82	17.44	16.38	15.44	14.45	13.73	13.12
135.0	23.91	22.20	20.70	18.99	17.82	16.50	15.55	14.78	14.06
180.0	26.68	24.52	22.75	20.70	19.32	17.77	16.77	15.78	14.89
225.0	25.46	23.58	21.92	20.04	18.76	17.60	16.55	15.33	14.50
270.0	29.95	26.90	24.80	23.03	21.42	19.65	18.38	17.21	16.00
315.0	25.79	23.80	22.14	20.26	18.93	17.49	16.44	15.50	14.50
360.0	22.58	20.54	19.15	17.93	16.83	15.61	14.72	13.84	13.23
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	12.62	12.01	11.57	11.18	10.85	10.41	10.13	9.85	9.58
45.0	12.68	12.12	11.68	11.18	10.85	10.52	10.13	9.85	9.58
90.0	12.57	11.96	11.51	11.13	10.79	10.41	10.07	9.80	9.47
135.0	13.28	12.68	12.18	11.62	11.29	10.85	10.57	10.24	9.85
180.0	13.95	13.28	12.68	12.18	11.62	11.24	10.85	10.52	10.13
225.0	13.56	12.95	12.40	11.85	11.40	11.02	10.63	10.30	10.02
270.0	15.06	14.17	13.51	12.90	12.23	11.79	11.40	11.02	10.57
315.0	13.78	13.17	12.45	11.96	11.57	11.18	10.74	10.41	10.13
360.0	12.62	12.01	11.57	11.18	10.85	10.41	10.13	9.85	9.58
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	9.30	9.08	8.80	8.52	8.30	8.03	7.80	7.64	7.42
45.0	9.30	9.02	8.80	8.47	8.25	8.08	7.86	7.64	7.36
90.0	9.19	8.91	8.64	8.36	8.14	7.86	7.69	7.47	7.25
135.0	9.58	9.30	9.02	8.75	8.41	8.19	7.97	7.80	7.47
180.0	9.91	9.52	9.30	9.02	8.75	8.47	8.25	8.03	7.80
225.0	9.74	9.41	9.13	8.91	8.69	8.41	8.19	7.92	7.64
270.0	10.24	9.96	9.69	9.35	9.08	8.80	8.52	8.25	8.03
315.0	9.85	9.52	9.24	8.91	8.69	8.47	8.19	7.97	7.69
360.0	9.30	9.08	8.80	8.52	8.30	8.03	7.80	7.64	7.42
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	7.14	7.03	6.81	6.64	6.42	6.31	6.14	5.98	5.81
45.0	7.20	6.97	6.81	6.59	6.42	6.25	6.14	5.92	5.81
90.0	6.97	6.81	6.64	6.42	6.25	6.14	5.98	5.81	5.70
135.0	7.25	7.09	6.92	6.70	6.48	6.31	6.14	5.98	5.81
180.0	7.58	7.36	7.20	6.92	6.75	6.53	6.37	6.20	6.09
225.0	7.47	7.20	6.97	6.81	6.64	6.42	6.25	6.09	5.98
270.0	7.80	7.53	7.31	7.09	6.86	6.70	6.48	6.31	6.14
315.0	7.47	7.31	7.09	6.92	6.64	6.53	6.31	6.20	5.98
360.0	7.14	7.03	6.81	6.64	6.42	6.31	6.14	5.98	5.81
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	5.70	5.65	5.48	5.31	5.20	5.09	5.04	4.93	4.87
45.0	5.70	5.59	5.42	5.31	5.20	5.09	4.98	4.93	4.82
90.0	5.54	5.37	5.31	5.20	5.04	4.93	4.87	4.76	4.82
135.0	5.65	5.54	5.37	5.26	5.15	5.04	4.93	4.82	4.76
180.0	5.87	5.76	5.65	5.54	5.37	5.26	5.15	5.04	5.04
225.0	5.81	5.70	5.54	5.42	5.31	5.15	5.09	5.04	4.98
270.0	5.98	5.87	5.70	5.59	5.37	5.26	5.15	5.04	4.98
315.0	5.87	5.70	5.59	5.48	5.31	5.15	5.04	4.98	4.93
360.0	5.70	5.65	5.48	5.31	5.20	5.09	5.04	4.93	4.87

Intensity data(cd)

C/γ(°)	90.0
0.0	4.87
45.0	4.87
90.0	4.82
135.0	4.76
180.0	4.87
225.0	4.82
270.0	4.93
315.0	4.82
360.0	4.87