



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: 2-2646-L

Luminaire: 92.70.412.000

Report No: 20231101-B027

Ballast type: AC

Test No: 20231101-C027

Voltage(V): 35.180

LampCAT: Fortimo_SLM_C_1205

Current(A): 0.451

Lamp flux(lm): 2563.2

Power (W): 15.866

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2353.32, Efficiency(%): 91.81% , Luminous Efficacy(lm/W): 148.32

Central intensity(cd): 4116.232, Maximum intensity(cd): 4116.232

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=46.8

[C90/270]Total=46.8

Field angle(10%Imax): [C0/180]Total=66.8

[C90/270]Total=66.8

Maximum s/h(1/2): C0_180=0.74 C90_270=0.74

Maximum s/h(1/4): C0_180=0.72 C90_270=0.72

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 91.81%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.018%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4116.232	0.000	0	0.00%	0.00%
1.0	4108.483	3.935	3.935	0.15%	0.17%
2.0	4081.013	11.754	15.69	0.46%	0.67%
3.0	4037.076	19.416	35.106	0.76%	1.49%
4.0	3984.906	26.852	61.958	1.05%	2.63%
5.0	3924.017	34.024	95.981	1.33%	4.08%
6.0	3855.586	40.884	136.865	1.60%	5.82%
7.0	3784.249	47.420	184.286	1.85%	7.83%
8.0	3716.994	53.685	237.971	2.09%	10.11%
9.0	3643.374	59.652	297.622	2.33%	12.65%
10.0	3565.118	65.234	362.857	2.55%	15.42%
11.0	3488.937	70.485	433.341	2.75%	18.41%
12.0	3408.398	75.398	508.739	2.94%	21.62%
13.0	3321.562	79.868	588.606	3.12%	25.01%
14.0	3232.789	83.895	672.502	3.27%	28.58%
15.0	3140.348	87.493	759.995	3.41%	32.29%
16.0	3037.944	90.529	850.524	3.53%	36.14%
17.0	2921.148	92.799	943.323	3.62%	40.08%
18.0	2803.660	94.390	1037.713	3.68%	44.10%
19.0	2674.617	95.311	1133.024	3.72%	48.15%
20.0	2540.453	95.450	1228.474	3.72%	52.20%
21.0	2398.956	94.847	1323.321	3.70%	56.23%
22.0	2259.050	93.605	1416.925	3.65%	60.21%
23.0	2116.307	91.807	1508.732	3.58%	64.11%
24.0	1966.506	89.265	1597.997	3.48%	67.90%
25.0	1816.290	86.012	1684.009	3.36%	71.56%
26.0	1614.236	80.978	1764.987	3.16%	75.00%
27.0	1414.409	74.096	1839.084	2.89%	78.15%
28.0	1240.073	67.206	1906.29	2.62%	81.00%
29.0	1109.473	61.471	1967.76	2.40%	83.62%
30.0	939.385	55.319	2023.079	2.16%	85.97%
31.0	765.679	47.449	2070.529	1.85%	87.98%
32.0	608.869	39.379	2109.908	1.54%	89.66%
33.0	466.057	31.668	2141.575	1.24%	91.00%
34.0	340.812	24.418	2165.994	0.95%	92.04%
35.0	257.457	18.580	2184.574	0.72%	92.83%
36.0	220.861	15.230	2199.803	0.59%	93.48%
37.0	174.412	12.892	2212.695	0.50%	94.02%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	123.819	9.955	2222.65	0.39%	94.45%
39.0	106.300	7.855	2230.504	0.31%	94.78%
40.0	92.870	6.946	2237.45	0.27%	95.08%
41.0	81.681	6.216	2243.666	0.24%	95.34%
42.0	72.728	5.610	2249.276	0.22%	95.58%
43.0	65.117	5.106	2254.382	0.20%	95.80%
44.0	58.986	4.684	2259.066	0.18%	95.99%
45.0	53.707	4.331	2263.397	0.17%	96.18%
46.0	49.389	4.032	2267.429	0.16%	96.35%
47.0	45.674	3.781	2271.21	0.15%	96.51%
48.0	42.352	3.558	2274.768	0.14%	96.66%
49.0	39.543	3.363	2278.131	0.13%	96.80%
50.0	36.845	3.185	2281.316	0.12%	96.94%
51.0	34.658	3.025	2284.341	0.12%	97.07%
52.0	32.576	2.885	2287.227	0.11%	97.19%
53.0	30.804	2.757	2289.984	0.11%	97.31%
54.0	29.213	2.645	2292.629	0.10%	97.42%
55.0	27.781	2.544	2295.173	0.10%	97.53%
56.0	26.494	2.452	2297.625	0.10%	97.63%
57.0	25.248	2.366	2299.991	0.09%	97.73%
58.0	24.307	2.292	2302.283	0.09%	97.83%
59.0	23.380	2.229	2304.512	0.09%	97.93%
60.0	22.515	2.168	2306.68	0.08%	98.02%
61.0	21.719	2.111	2308.791	0.08%	98.11%
62.0	21.000	2.058	2310.85	0.08%	98.20%
63.0	20.315	2.009	2312.859	0.08%	98.28%
64.0	19.713	1.964	2314.823	0.08%	98.36%
65.0	19.145	1.923	2316.746	0.08%	98.45%
66.0	18.620	1.884	2318.631	0.07%	98.53%
67.0	18.045	1.844	2320.474	0.07%	98.60%
68.0	17.568	1.804	2322.278	0.07%	98.68%
69.0	17.070	1.767	2324.045	0.07%	98.76%
70.0	16.627	1.731	2325.776	0.07%	98.83%
71.0	16.149	1.694	2327.47	0.07%	98.90%
72.0	15.741	1.658	2329.128	0.06%	98.97%
73.0	15.354	1.626	2330.754	0.06%	99.04%
74.0	14.911	1.591	2332.345	0.06%	99.11%
75.0	14.516	1.555	2333.9	0.06%	99.17%

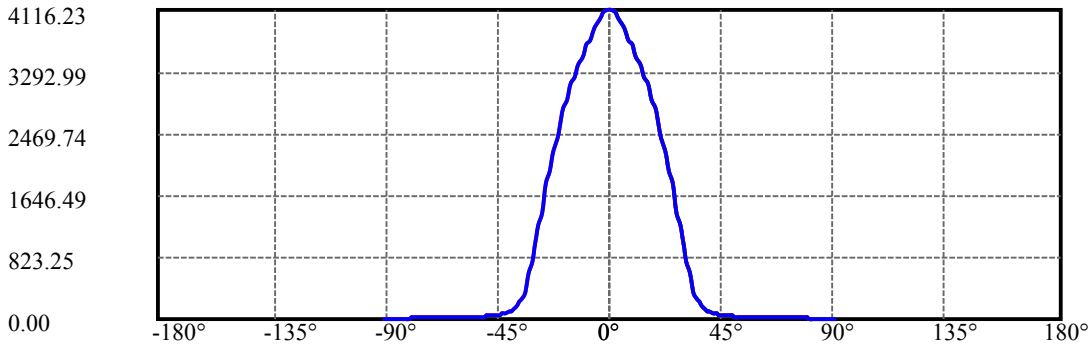
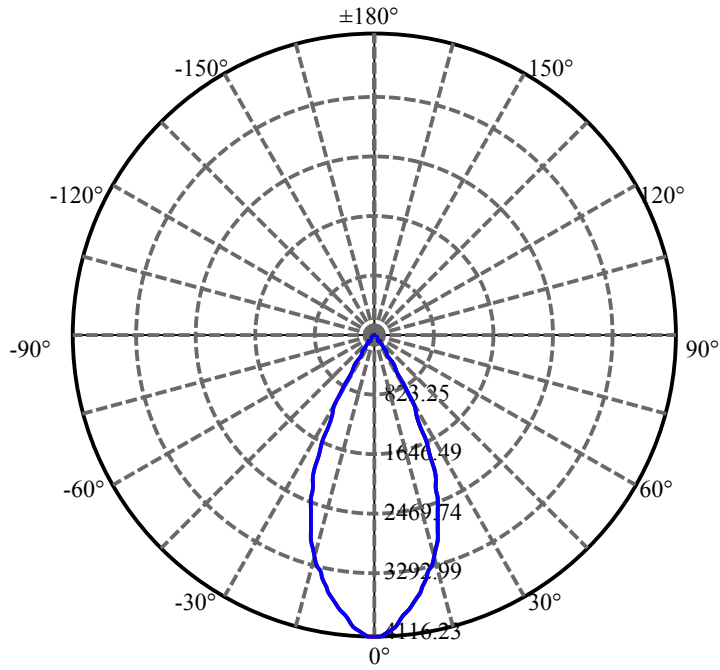
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	14.101	1.519	2335.419	0.06%	99.24%
77.0	13.748	1.485	2336.904	0.06%	99.30%
78.0	13.319	1.449	2338.353	0.06%	99.36%
79.0	12.946	1.411	2339.764	0.06%	99.42%
80.0	12.579	1.376	2341.14	0.05%	99.48%
81.0	12.261	1.343	2342.484	0.05%	99.54%
82.0	11.929	1.312	2343.795	0.05%	99.60%
83.0	11.645	1.281	2345.077	0.05%	99.65%
84.0	11.334	1.252	2346.329	0.05%	99.70%
85.0	11.091	1.224	2347.553	0.05%	99.75%
86.0	10.849	1.199	2348.752	0.05%	99.81%
87.0	10.621	1.175	2349.927	0.05%	99.86%
88.0	10.393	1.151	2351.078	0.04%	99.90%
89.0	10.206	1.129	2352.207	0.04%	99.95%
90.0	10.137	1.115	2353.323	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2023.08	78.93%	85.97%
0-40	2237.45	87.29%	95.08%
0-60	2306.68	89.99%	98.02%
0-90	2352.21	91.77%	99.95%
0-120	2352.21	91.77%	99.95%
0-180	2353.32	91.81%	100.00%
60-90	45.53	1.78%	1.93%
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%
0-27.65	1882.66	73.45%	80.00%

ZONAL LUMEN SUMMARY

0-10	362.86
10-20	865.62
20-30	794.61
30-40	214.37
40-50	43.87
50-60	25.36
60-70	19.10
70-80	15.36
80-90	11.07
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: —————

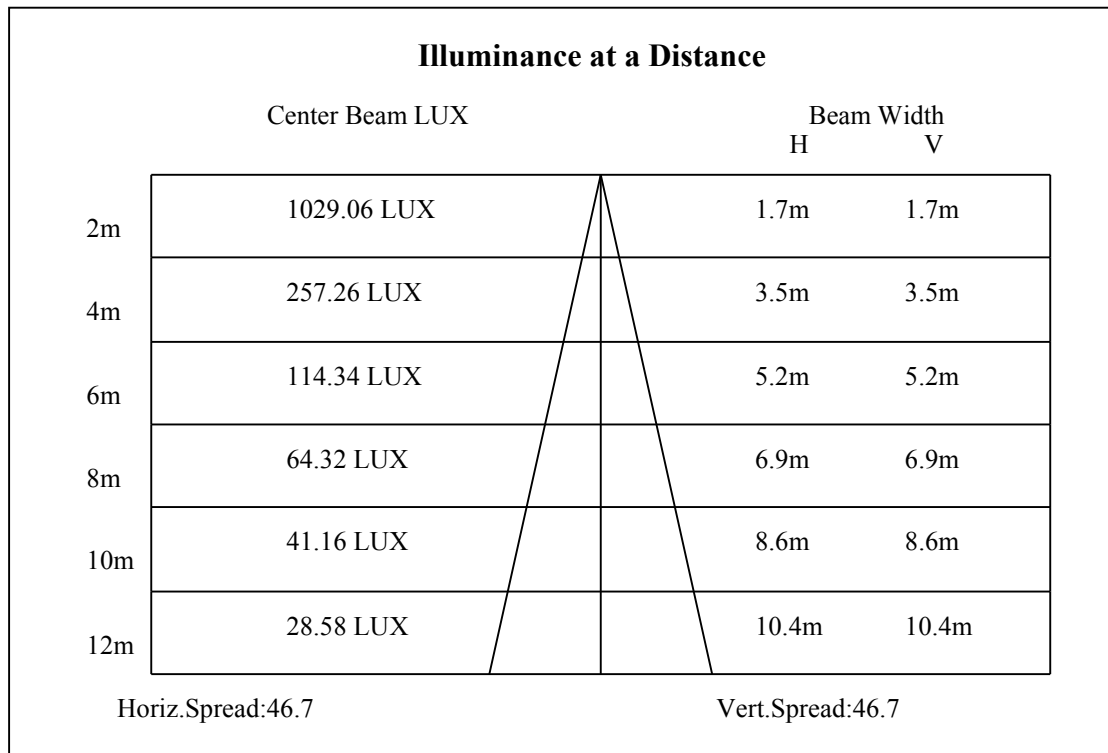
C90/C270: —————

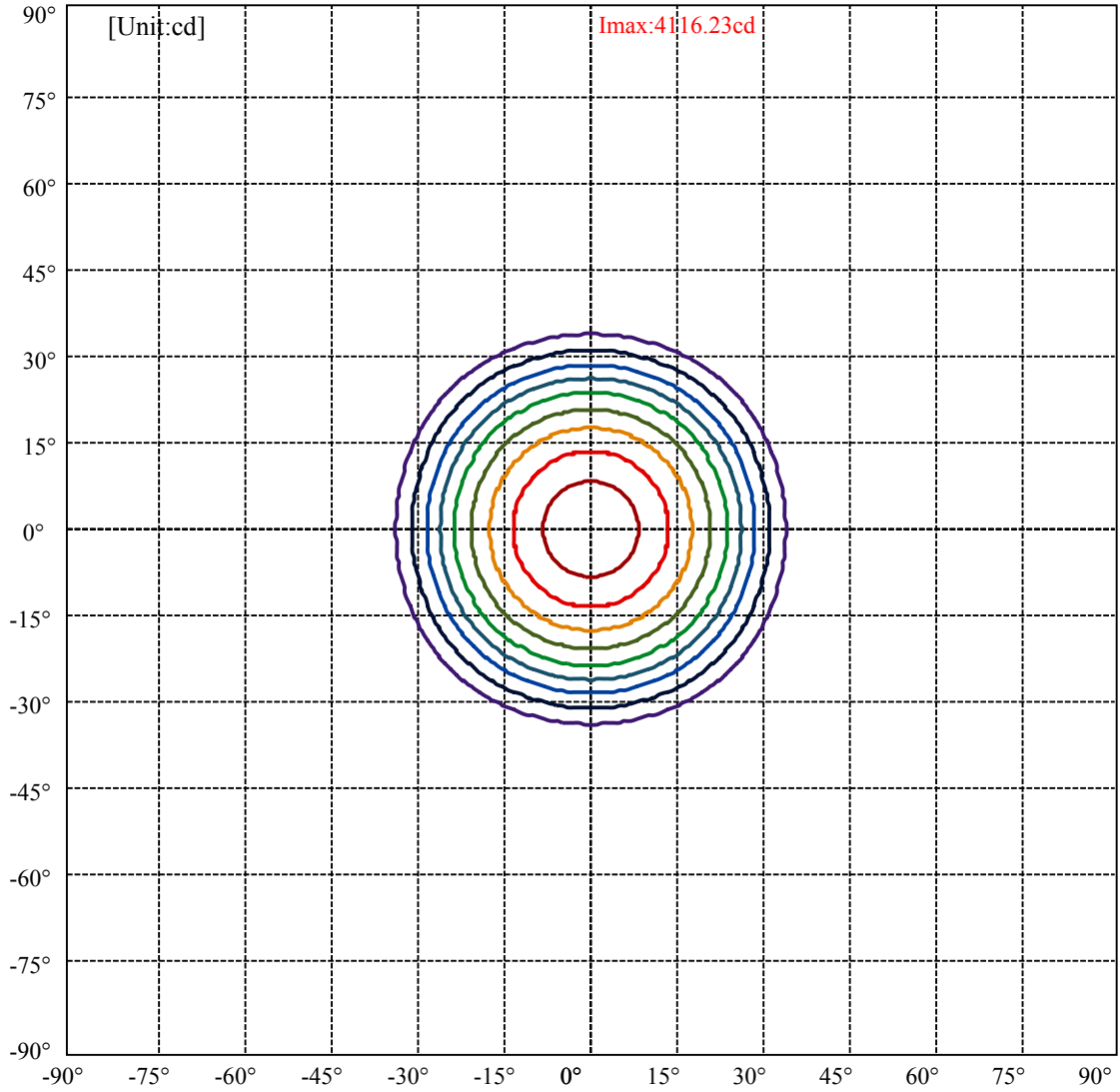
Field angle(10%Imax):C0/180Left:33.4 Right:33.4

:C90/270Left:33.4 Right:33.4

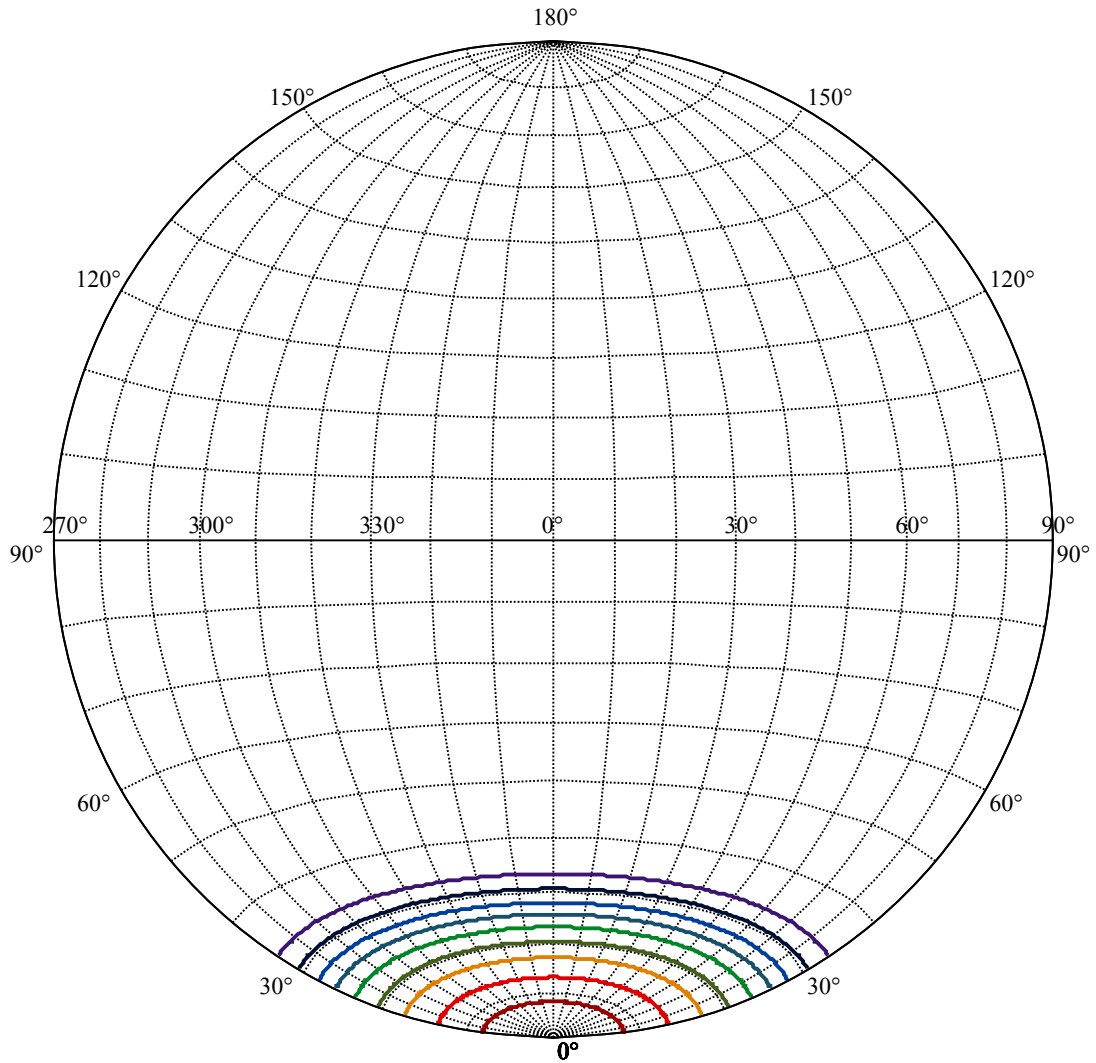
Beam Angle(50%Imax):C0/180Left:23.4 Right:23.4

:C90/270Left:23.4 Right:23.4





(10%Imax) 411.623	—
(20%Imax) 823.246	—
(30%Imax) 1234.87	—
(40%Imax) 1646.49	—
(50%Imax) 2058.12	—
(60%Imax) 2469.74	—
(70%Imax) 2881.36	—
(80%Imax) 3292.99	—
(90%Imax) 3704.61	—



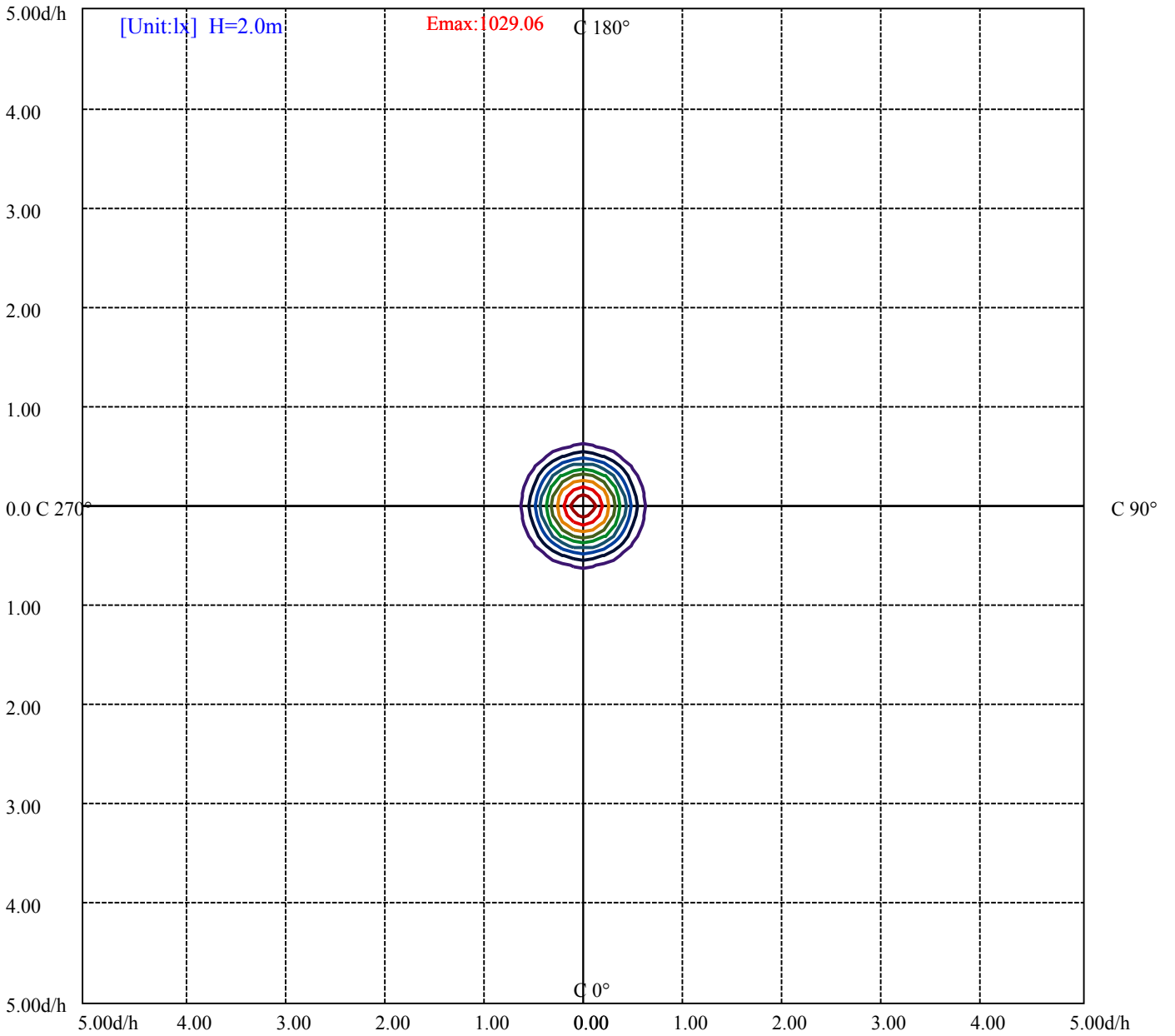
House

[Unit:cd]

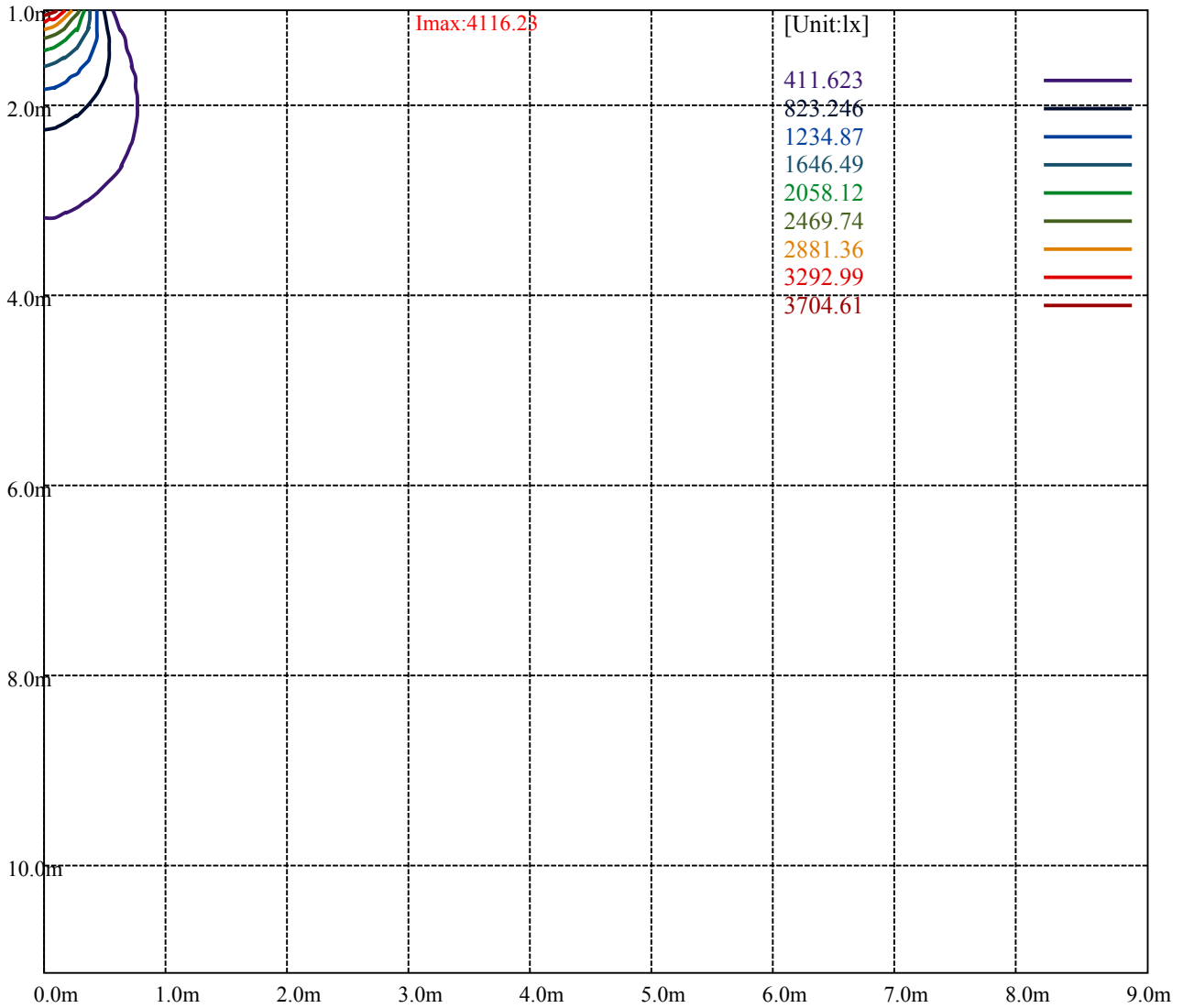
Road

Imax:4116.23

(10%Imax)	411.623	—
(20%Imax)	823.246	—
(30%Imax)	1234.87	—
(40%Imax)	1646.49	—
(50%Imax)	2058.12	—
(60%Imax)	2469.74	—
(70%Imax)	2881.36	—
(80%Imax)	3292.99	—
(90%Imax)	3704.61	—



(10%Emax) 102.9057	—
(20%Emax) 205.8115	—
(30%Emax) 308.7175	—
(40%Emax) 411.6225	—
(50%Emax) 514.53	—
(60%Emax) 617.435	—
(70%Emax) 720.34	—
(80%Emax) 823.245	—
(90%Emax) 926.1525	—



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

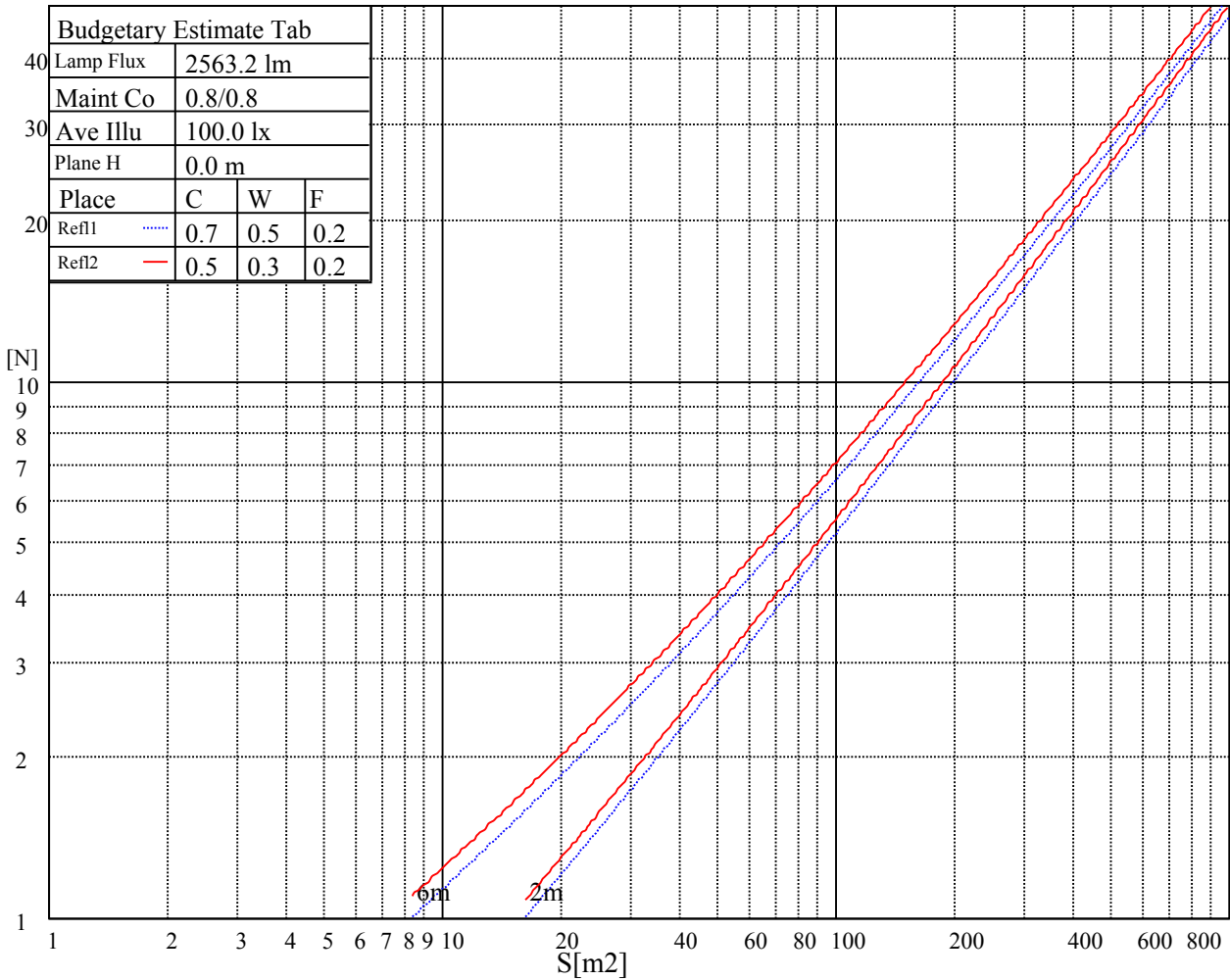
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

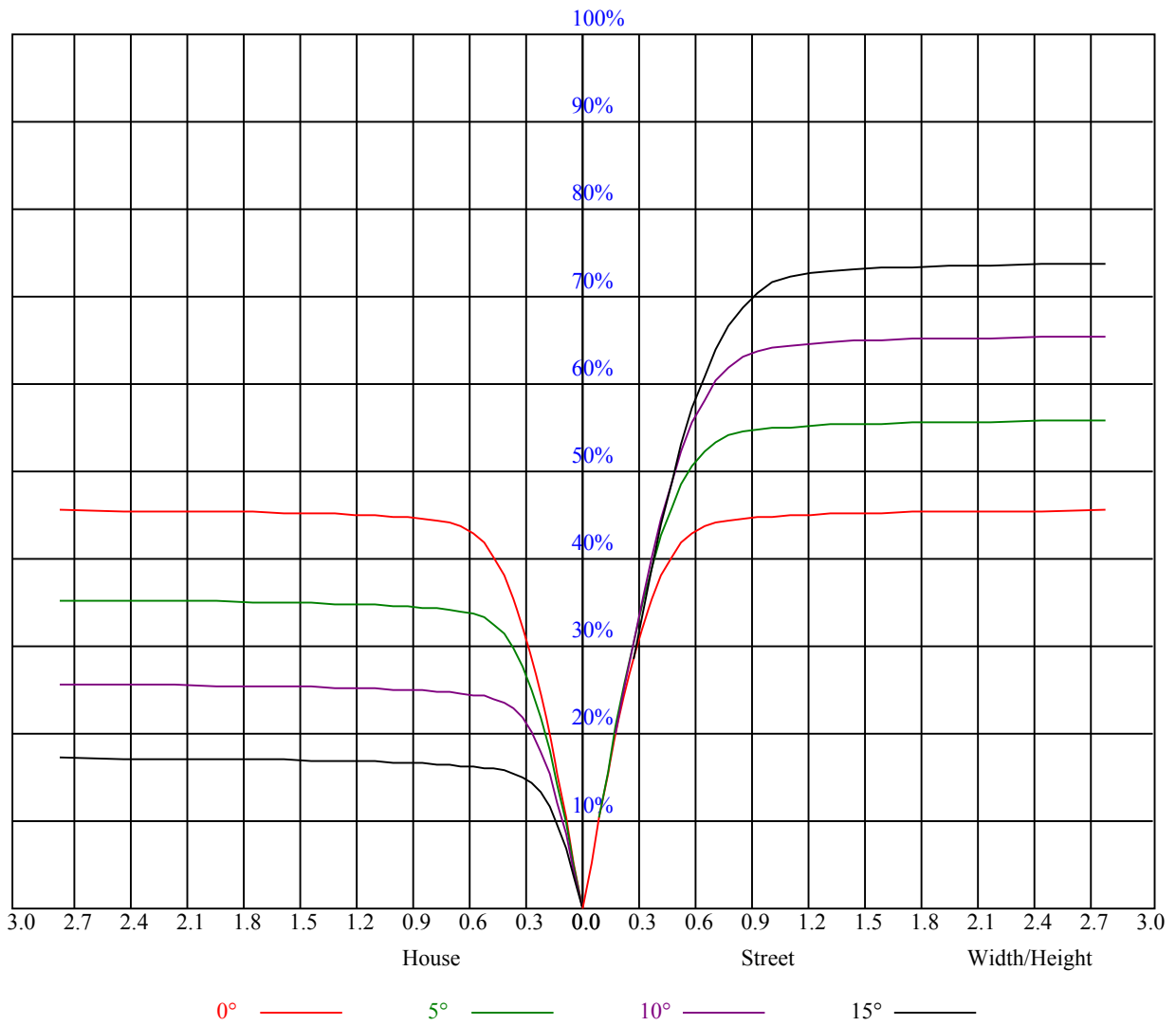


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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 RHOFC=20 CU															
0	1.09	1.09	1.09	1.07	1.07	1.07	1.02	1.02	1.02	0.98	0.98	0.98	0.94	0.94	0.94	0.92
1	1.02	1.00	0.98	1.00	0.98	0.96	0.96	0.95	0.93	0.93	0.92	0.91	0.90	0.89	0.88	0.86
2	0.96	0.92	0.89	0.94	0.91	0.88	0.91	0.89	0.86	0.88	0.86	0.84	0.86	0.84	0.83	0.81
3	0.90	0.86	0.82	0.89	0.85	0.82	0.86	0.83	0.80	0.84	0.81	0.79	0.82	0.80	0.78	0.77
4	0.85	0.80	0.77	0.84	0.80	0.76	0.82	0.78	0.75	0.80	0.77	0.75	0.79	0.76	0.74	0.72
5	0.80	0.76	0.72	0.80	0.75	0.72	0.78	0.74	0.71	0.77	0.73	0.70	0.75	0.72	0.70	0.69
6	0.76	0.71	0.68	0.76	0.71	0.68	0.74	0.70	0.67	0.73	0.70	0.67	0.72	0.69	0.66	0.65
7	0.73	0.68	0.64	0.72	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.63	0.69	0.66	0.63	0.62
8	0.69	0.64	0.61	0.69	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.60	0.66	0.63	0.60	0.59
9	0.66	0.61	0.58	0.66	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.57	0.63	0.60	0.57	0.56
10	0.63	0.58	0.55	0.63	0.58	0.55	0.62	0.58	0.55	0.61	0.58	0.55	0.61	0.57	0.55	0.54



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	4111.11	4061.29	4022.55	3969.96	3912.39	3813.86	3755.19	3688.76	3623.45
45.0	4122.18	4114.99	4094.51	4046.35	3982.14	3924.02	3860.91	3777.88	3719.21
90.0	4111.67	4084.54	4040.81	3978.82	3928.44	3849.29	3773.45	3706.48	3642.27
135.0	4119.97	4116.65	4086.20	4032.51	3976.05	3909.07	3839.33	3771.79	3705.92
180.0	4111.11	4127.16	4118.31	4091.18	4048.01	4005.39	3938.96	3873.64	3807.22
225.0	4122.18	4119.41	4081.22	4037.49	3988.78	3943.94	3880.29	3799.47	3731.39
270.0	4111.67	4126.06	4123.84	4101.15	4050.78	4012.03	3956.12	3886.38	3799.47
315.0	4119.97	4117.75	4080.67	4039.15	3992.66	3934.53	3840.43	3769.58	3707.03
360.0	4111.11	4061.29	4022.55	3969.96	3912.39	3813.86	3755.19	3688.76	3623.45
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3541.52	3466.24	3388.19	3294.09	3207.74	3102.02	3002.38	2890.01	2744.43
45.0	3647.25	3589.68	3498.90	3424.73	3343.91	3256.45	3150.17	3058.29	2953.11
90.0	3580.27	3482.85	3414.21	3350.00	3246.49	3157.92	3069.91	2960.86	2824.14
135.0	3637.84	3573.63	3511.63	3419.75	3346.13	3260.88	3182.28	3059.95	2958.65
180.0	3720.32	3660.53	3593.56	3518.27	3426.39	3343.36	3262.54	3186.71	3067.70
225.0	3658.32	3579.16	3483.96	3413.66	3327.86	3227.11	3133.01	3014.56	2910.49
270.0	3729.17	3631.20	3554.81	3477.31	3378.78	3301.84	3215.49	3119.18	3003.49
315.0	3632.30	3537.65	3466.24	3369.37	3295.20	3212.72	3107.00	3014.00	2907.17
360.0	3541.52	3466.24	3388.19	3294.09	3207.74	3102.02	3002.38	2890.01	2744.43
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2617.12	2483.72	2348.10	2174.84	2035.35	1893.09	1747.51	1553.22	1093.68
45.0	2824.14	2713.99	2561.21	2437.77	2323.19	2196.43	2033.69	1901.40	1743.08
90.0	2708.45	2584.46	2454.93	2301.05	2170.41	2038.67	1872.61	1719.28	1509.49
135.0	2842.41	2700.70	2568.96	2425.59	2256.77	2118.94	1948.45	1807.30	1652.86
180.0	2956.44	2843.51	2690.74	2566.75	2394.04	2255.66	2128.90	1960.62	1815.60
225.0	2795.91	2649.22	2523.02	2398.47	2270.05	2106.76	1975.02	1839.40	1682.20
270.0	2900.53	2793.70	2676.90	2523.57	2389.06	2255.66	2091.26	1957.86	1818.92
315.0	2784.29	2627.64	2499.77	2363.60	2233.52	2065.24	1934.61	1791.24	1598.06
360.0	2617.12	2483.72	2348.10	2174.84	2035.35	1893.09	1747.51	1553.22	1093.68
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1093.68	1053.60	858.70	712.68	541.75	417.20	307.27	207.13	160.80
45.0	1579.79	1366.68	1190.10	1019.61	812.59	657.05	517.00	363.12	288.39
90.0	1076.63	1076.63	990.39	783.59	629.04	491.15	369.87	250.48	190.19
135.0	1485.14	1272.03	1105.96	946.55	792.66	608.89	475.49	357.03	283.41
180.0	1674.45	1511.71	1342.88	1131.43	963.15	802.63	612.76	479.92	364.23
225.0	1474.62	1077.35	1077.35	945.88	739.25	587.69	453.62	315.02	232.04
270.0	1630.16	1469.08	1257.08	1082.16	906.14	745.61	561.84	435.08	326.59
315.0	1300.81	1093.51	1053.32	893.19	740.85	560.73	430.60	318.73	214.00
360.0	1093.68	1053.60	858.70	712.68	541.75	417.20	307.27	207.13	160.80
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	133.90	114.25	95.76	84.64	75.11	67.31	59.23	54.19	49.60
45.0	288.39	149.29	125.49	107.39	90.72	80.26	71.68	64.38	57.12
90.0	154.88	130.91	108.77	95.26	84.41	73.40	66.26	58.95	54.14
135.0	283.41	150.12	123.77	108.38	96.32	83.64	75.45	68.31	62.38
180.0	292.27	292.27	156.54	128.97	112.76	99.75	86.19	77.27	69.86
225.0	169.66	142.09	122.00	106.78	91.78	81.92	73.56	66.59	59.28
270.0	280.09	280.09	141.98	121.06	105.45	90.34	80.48	70.41	63.77
315.0	164.29	136.28	116.24	97.92	86.41	76.83	68.97	60.83	55.74
360.0	133.90	114.25	95.76	84.64	75.11	67.31	59.23	54.19	49.60

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	45.00	41.90	39.13	36.20	34.10	32.22	30.22	28.73	27.46
45.0	52.48	48.49	45.06	41.35	38.75	35.98	33.99	32.22	30.33
90.0	49.93	46.39	42.57	39.97	37.59	35.43	33.16	31.44	30.00
135.0	56.07	52.09	48.32	45.00	41.35	38.80	36.64	34.10	32.27
180.0	63.66	57.12	52.81	48.99	45.56	41.85	39.19	36.87	34.15
225.0	54.41	50.26	45.78	42.68	39.91	36.92	34.87	32.44	30.78
270.0	56.79	52.14	48.16	44.67	41.57	38.19	35.87	33.71	31.88
315.0	51.31	46.72	43.56	39.97	37.53	35.37	33.32	31.11	29.56
360.0	45.00	41.90	39.13	36.20	34.10	32.22	30.22	28.73	27.46
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	26.24	24.85	23.91	22.97	22.20	21.42	20.76	20.04	19.54
45.0	28.89	27.62	26.40	25.13	24.24	23.41	22.58	21.64	21.03
90.0	28.29	27.07	25.96	24.69	23.86	23.08	22.09	21.48	20.81
135.0	30.72	28.84	27.62	26.29	25.30	24.36	23.47	22.64	21.75
180.0	32.38	30.72	28.95	27.62	26.46	25.13	24.24	23.36	22.58
225.0	29.28	27.90	26.63	25.24	24.30	23.41	22.64	21.64	20.98
270.0	29.72	28.34	27.01	25.57	24.52	23.64	22.53	21.81	20.92
315.0	28.17	26.90	25.46	24.47	23.58	22.58	21.81	21.15	20.37
360.0	26.24	24.85	23.91	22.97	22.20	21.42	20.76	20.04	19.54
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	18.99	18.38	17.93	17.49	16.99	16.61	16.22	15.83	15.39
45.0	20.43	19.71	19.21	18.76	18.16	17.71	17.21	16.72	16.27
90.0	20.15	19.60	19.04	18.54	17.88	17.38	16.94	16.44	15.94
135.0	21.15	20.48	19.87	19.21	18.65	18.10	17.44	16.99	16.44
180.0	21.59	20.98	20.31	19.76	19.04	18.43	17.82	17.38	16.88
225.0	20.15	19.60	19.04	18.43	17.93	17.49	16.99	16.55	16.11
270.0	20.31	19.71	19.15	18.65	18.05	17.60	17.21	16.77	16.22
315.0	19.76	19.26	18.60	18.10	17.66	17.21	16.72	16.33	15.94
360.0	18.99	18.38	17.93	17.49	16.99	16.61	16.22	15.83	15.39
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	15.06	14.72	14.39	13.95	13.67	13.34	12.84	12.51	12.18
45.0	15.83	15.50	15.00	14.61	14.23	13.89	13.40	13.06	12.73
90.0	15.55	15.06	14.67	14.28	13.78	13.45	13.01	12.73	12.29
135.0	15.94	15.61	15.06	14.67	14.23	13.89	13.40	13.01	12.68
180.0	16.27	15.89	15.39	15.06	14.50	14.17	13.73	13.28	12.95
225.0	15.83	15.33	14.89	14.50	14.12	13.67	13.34	12.90	12.45
270.0	15.89	15.55	15.11	14.72	14.28	13.95	13.62	13.17	12.79
315.0	15.55	15.17	14.78	14.34	14.00	13.62	13.23	12.90	12.57
360.0	15.06	14.72	14.39	13.95	13.67	13.34	12.84	12.51	12.18
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	11.90	11.62	11.40	11.13	10.90	10.57	10.35	10.13	10.02
45.0	12.34	11.96	11.68	11.35	11.13	10.85	10.63	10.41	10.02
90.0	12.01	11.73	11.46	11.18	11.02	10.79	10.57	10.24	10.41
135.0	12.29	11.96	11.68	11.29	11.13	10.96	10.74	10.52	10.30
180.0	12.62	12.23	11.96	11.57	11.29	11.02	10.79	10.57	10.46
225.0	12.23	11.90	11.57	11.29	11.02	10.74	10.57	10.35	9.96
270.0	12.45	12.12	11.79	11.51	11.24	11.02	10.68	10.52	10.24
315.0	12.23	11.90	11.62	11.35	11.02	10.85	10.63	10.41	10.24
360.0	11.90	11.62	11.40	11.13	10.90	10.57	10.35	10.13	10.02

Intensity data(cd)

C/γ(°)	90.0
0.0	9.96
45.0	10.02
90.0	10.41
135.0	10.57
180.0	10.07
225.0	9.91
270.0	10.07
315.0	10.07
360.0	9.96