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## NATA

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Client:

LumCAT: 2-2646-L

Luminaire: 92.70.411.00

Report No: 20231016-B007

Ballast type: AC

Test No: 20231016-C007

Voltage(V): 34.170

LampCAT: NICHIA NFCWJ108B-V3

Current(A): 0.576

Lamp flux(lm): 2574.8

Power (W): 19.681

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

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## Photometric Results

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Lumens(lm): 2352.69, Efficiency(%): 91.37% , Luminous Efficacy(lm/W): 119.54

Central intensity(cd): 4087.863, Maximum intensity(cd): 4087.863

Angle of maximum intensity: C=0.0  $\gamma$ =0.0

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

[C90/270]Total=46.8

Field angle(10%Imax): [C0/180]Total=68.0

[C90/270]Total=68.0

Maximum s/h(1/2): C0\_180=0.75 C90\_270=0.75

Maximum s/h(1/4): C0\_180=0.71 C90\_270=0.71

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 91.37%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 98.158%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4087.863	0.000	0	0.00%	0.00%
1.0	4080.114	3.908	3.908	0.15%	0.17%
2.0	4055.620	11.677	15.585	0.45%	0.66%
3.0	4019.225	19.312	34.898	0.75%	1.48%
4.0	3967.538	26.734	61.632	1.04%	2.62%
5.0	3908.933	33.884	95.516	1.32%	4.06%
6.0	3846.798	40.758	136.275	1.58%	5.79%
7.0	3778.506	47.330	183.605	1.84%	7.80%
8.0	3708.622	53.584	237.189	2.08%	10.08%
9.0	3642.198	59.574	296.763	2.31%	12.61%
10.0	3569.477	65.263	362.026	2.53%	15.39%
11.0	3492.051	70.559	432.585	2.74%	18.39%
12.0	3415.663	75.511	508.097	2.93%	21.60%
13.0	3331.387	80.070	588.167	3.11%	25.00%
14.0	3243.998	84.164	672.331	3.27%	28.58%
15.0	3147.337	87.743	760.074	3.41%	32.31%
16.0	3040.850	90.674	850.749	3.52%	36.16%
17.0	2923.777	92.885	943.634	3.61%	40.11%
18.0	2806.289	94.476	1038.11	3.67%	44.12%
19.0	2684.926	95.536	1133.646	3.71%	48.19%
20.0	2548.826	95.792	1229.438	3.72%	52.26%
21.0	2401.447	95.055	1324.494	3.69%	56.30%
22.0	2255.936	93.592	1418.086	3.63%	60.28%
23.0	2100.531	91.410	1509.496	3.55%	64.16%
24.0	1940.559	88.353	1597.849	3.43%	67.92%
25.0	1774.844	84.480	1682.329	3.28%	71.51%
26.0	1571.177	78.983	1761.312	3.07%	74.86%
27.0	1364.584	71.824	1833.136	2.79%	77.92%
28.0	1217.502	65.373	1898.509	2.54%	80.70%
29.0	1083.007	60.188	1958.697	2.34%	83.25%
30.0	919.956	54.080	2012.777	2.10%	85.55%
31.0	764.253	46.869	2059.646	1.82%	87.54%
32.0	633.425	40.042	2099.688	1.56%	89.25%
33.0	508.367	33.638	2133.325	1.31%	90.68%
34.0	411.097	27.826	2161.151	1.08%	91.86%
35.0	326.752	22.915	2184.066	0.89%	92.83%
36.0	264.666	18.831	2202.897	0.73%	93.63%
37.0	227.725	16.059	2218.956	0.62%	94.32%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	177.588	13.529	2232.485	0.53%	94.89%
39.0	123.023	10.261	2242.745	0.40%	95.33%
40.0	98.550	7.728	2250.473	0.30%	95.66%
41.0	78.858	6.317	2256.79	0.25%	95.92%
42.0	66.044	5.265	2262.055	0.20%	96.15%
43.0	55.956	4.519	2266.574	0.18%	96.34%
44.0	49.230	3.970	2270.544	0.15%	96.51%
45.0	44.020	3.584	2274.128	0.14%	96.66%
46.0	39.882	3.281	2277.409	0.13%	96.80%
47.0	36.450	3.036	2280.445	0.12%	96.93%
48.0	33.703	2.836	2283.281	0.11%	97.05%
49.0	31.365	2.672	2285.953	0.10%	97.16%
50.0	29.330	2.531	2288.484	0.10%	97.27%
51.0	27.587	2.408	2290.892	0.09%	97.37%
52.0	26.175	2.307	2293.199	0.09%	97.47%
53.0	24.958	2.224	2295.423	0.09%	97.57%
54.0	23.837	2.151	2297.574	0.08%	97.66%
55.0	22.889	2.086	2299.659	0.08%	97.75%
56.0	22.017	2.029	2301.689	0.08%	97.83%
57.0	21.290	1.980	2303.669	0.08%	97.92%
58.0	20.578	1.936	2305.605	0.08%	98.00%
59.0	19.969	1.896	2307.5	0.07%	98.08%
60.0	19.374	1.859	2309.359	0.07%	98.16%
61.0	18.889	1.826	2311.185	0.07%	98.24%
62.0	18.405	1.797	2312.982	0.07%	98.31%
63.0	17.948	1.768	2314.75	0.07%	98.39%
64.0	17.540	1.741	2316.492	0.07%	98.46%
65.0	17.153	1.717	2318.208	0.07%	98.53%
66.0	16.779	1.693	2319.901	0.07%	98.61%
67.0	16.412	1.669	2321.57	0.06%	98.68%
68.0	16.032	1.644	2323.214	0.06%	98.75%
69.0	15.714	1.619	2324.833	0.06%	98.82%
70.0	15.361	1.596	2326.429	0.06%	98.88%
71.0	15.001	1.569	2327.999	0.06%	98.95%
72.0	14.669	1.543	2329.541	0.06%	99.02%
73.0	14.337	1.517	2331.058	0.06%	99.08%
74.0	14.025	1.491	2332.549	0.06%	99.14%
75.0	13.700	1.465	2334.014	0.06%	99.21%

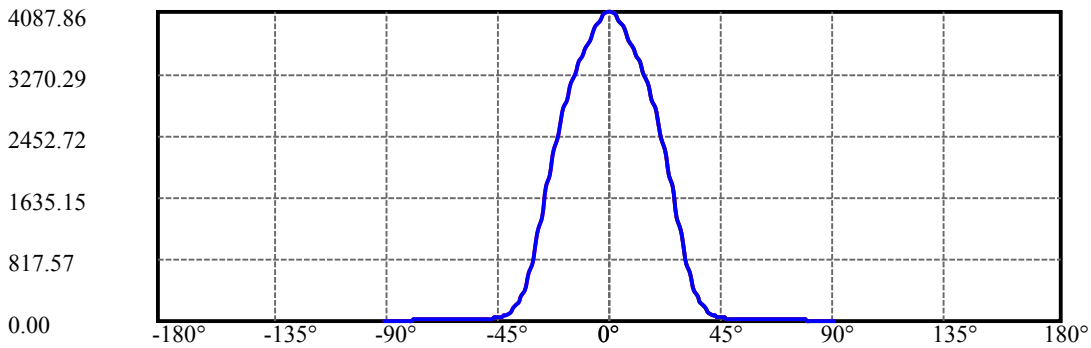
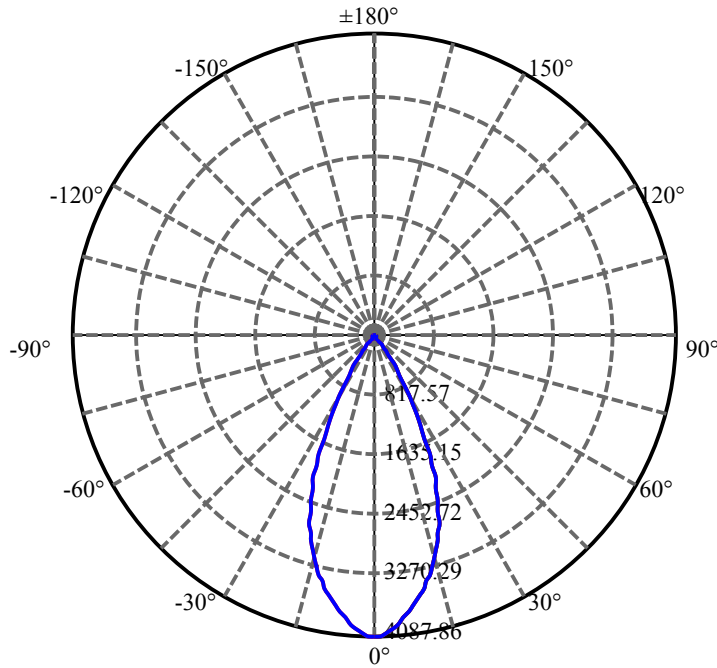
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	13.361	1.437	2335.45	0.06%	99.27%
77.0	13.022	1.407	2336.857	0.05%	99.33%
78.0	12.717	1.378	2338.235	0.05%	99.39%
79.0	12.406	1.350	2339.585	0.05%	99.44%
80.0	12.102	1.321	2340.906	0.05%	99.50%
81.0	11.811	1.293	2342.199	0.05%	99.55%
82.0	11.514	1.265	2343.464	0.05%	99.61%
83.0	11.237	1.237	2344.701	0.05%	99.66%
84.0	10.988	1.211	2345.912	0.05%	99.71%
85.0	10.732	1.185	2347.097	0.05%	99.76%
86.0	10.483	1.160	2348.257	0.05%	99.81%
87.0	10.268	1.136	2349.392	0.04%	99.86%
88.0	10.088	1.115	2350.507	0.04%	99.91%
89.0	9.943	1.098	2351.605	0.04%	99.95%
90.0	9.888	1.087	2352.693	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2012.78	78.17%	85.55%
0-40	2250.47	87.40%	95.66%
0-60	2309.36	89.69%	98.16%
0-90	2351.61	91.33%	99.95%
0-120	2351.61	91.33%	99.95%
0-180	2352.69	91.37%	100.00%
60-90	42.25	1.64%	1.80%
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%
0-27.75	1882.15	73.10%	80.00%

ZONAL LUMEN SUMMARY

0-10	362.03
10-20	867.41
20-30	783.34
30-40	237.70
40-50	38.01
50-60	20.88
60-70	17.07
70-80	14.48
80-90	10.70
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: ———

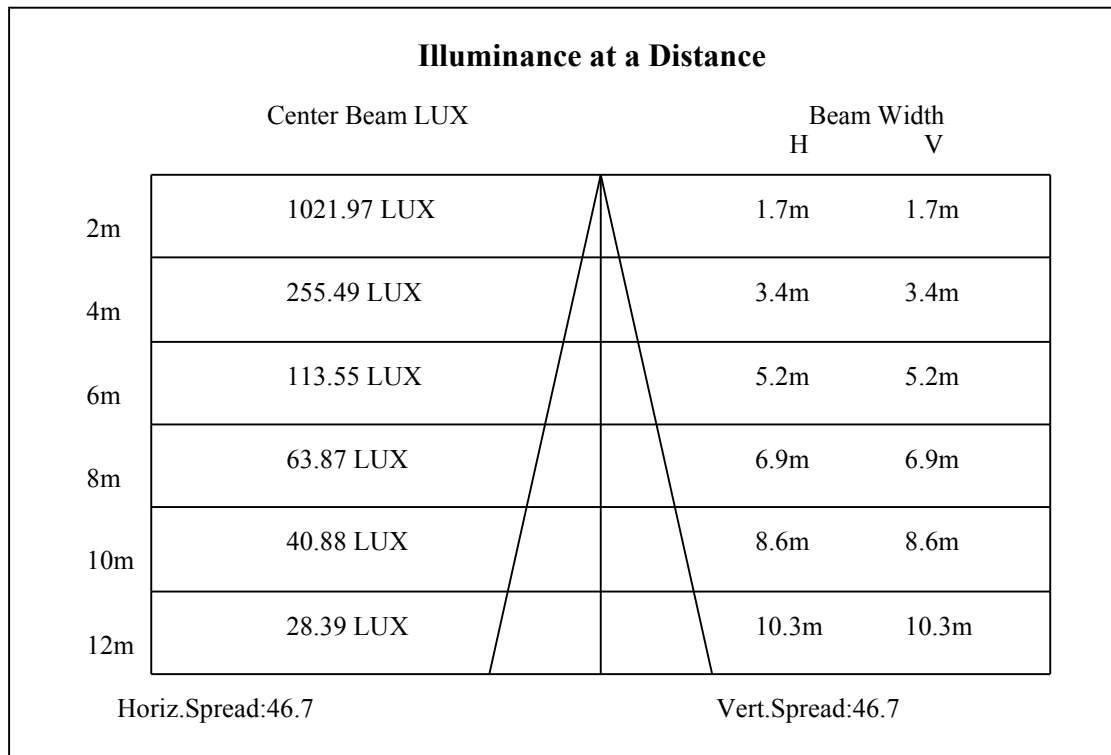
C90/C270: ———

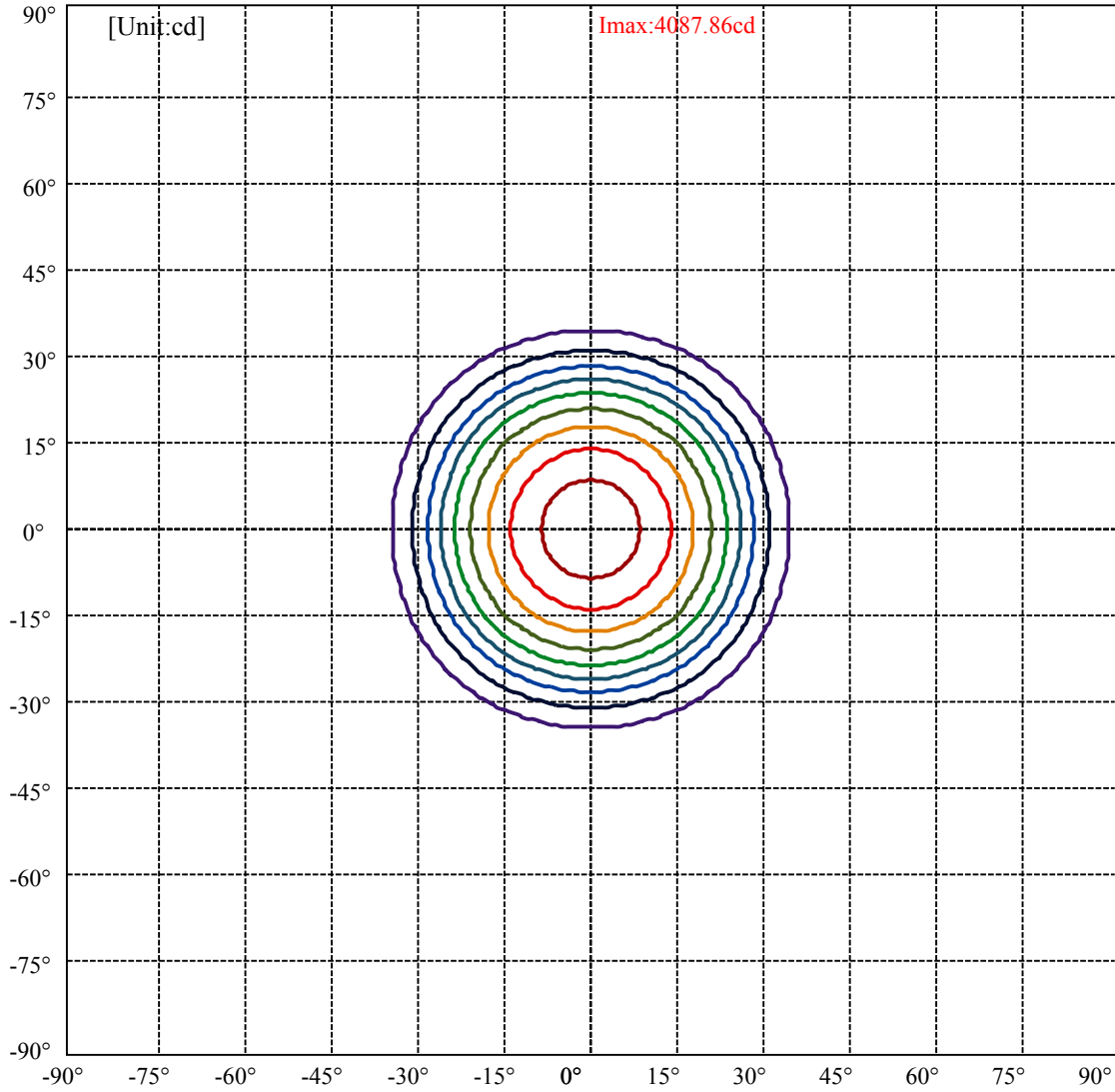
Field angle(10%Imax):C0/180Left:34.0 Right:34.0

:C90/270Left:34.0 Right:34.0

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

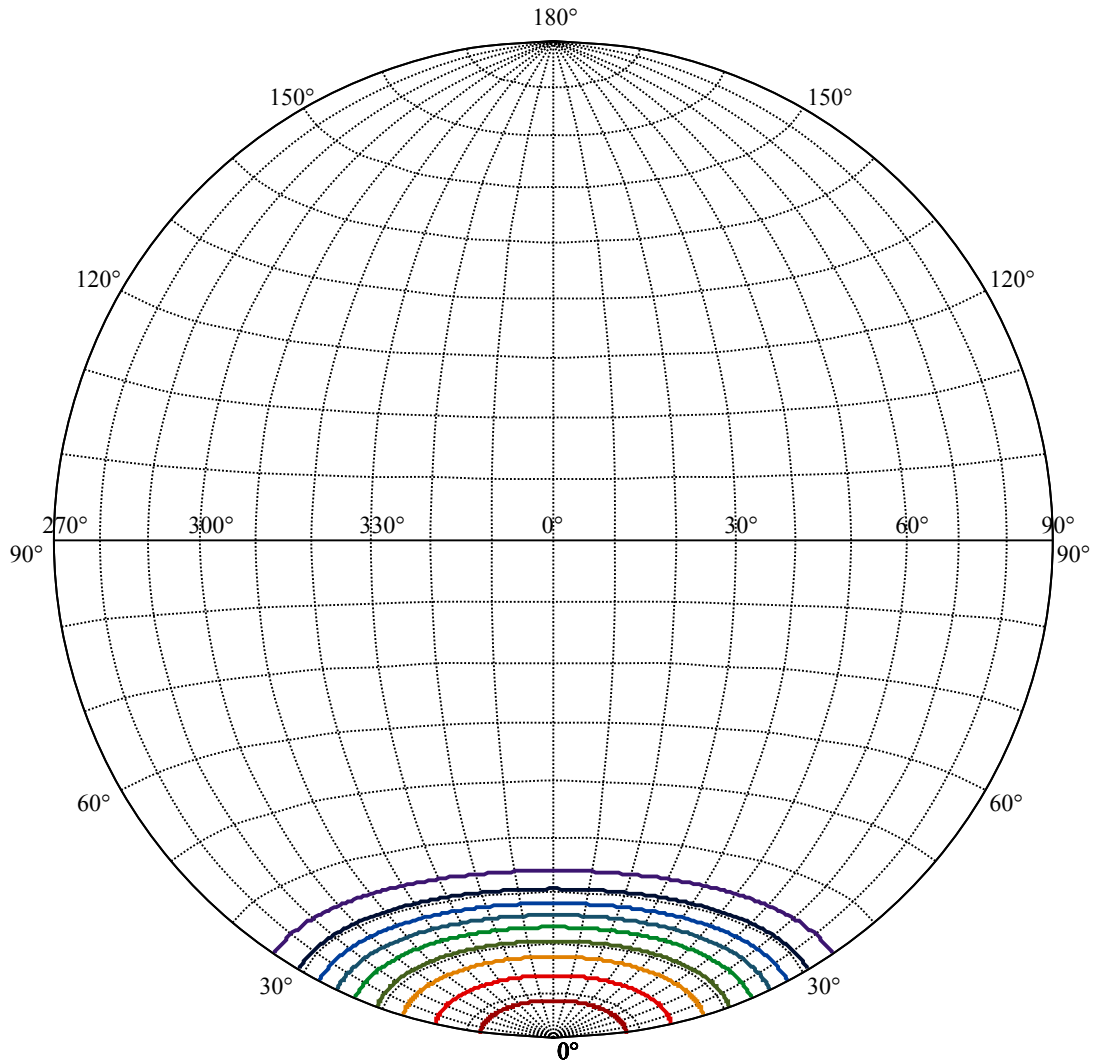
:C90/270Left:23.4 Right:23.4





(10%I <sub>max</sub> ) 408.786	—
(20%I <sub>max</sub> ) 817.573	—
(30%I <sub>max</sub> ) 1226.36	—
(40%I <sub>max</sub> ) 1635.15	—
(50%I <sub>max</sub> ) 2043.93	—
(60%I <sub>max</sub> ) 2452.72	—
(70%I <sub>max</sub> ) 2861.5	—
(80%I <sub>max</sub> ) 3270.29	—
(90%I <sub>max</sub> ) 3679.08	—





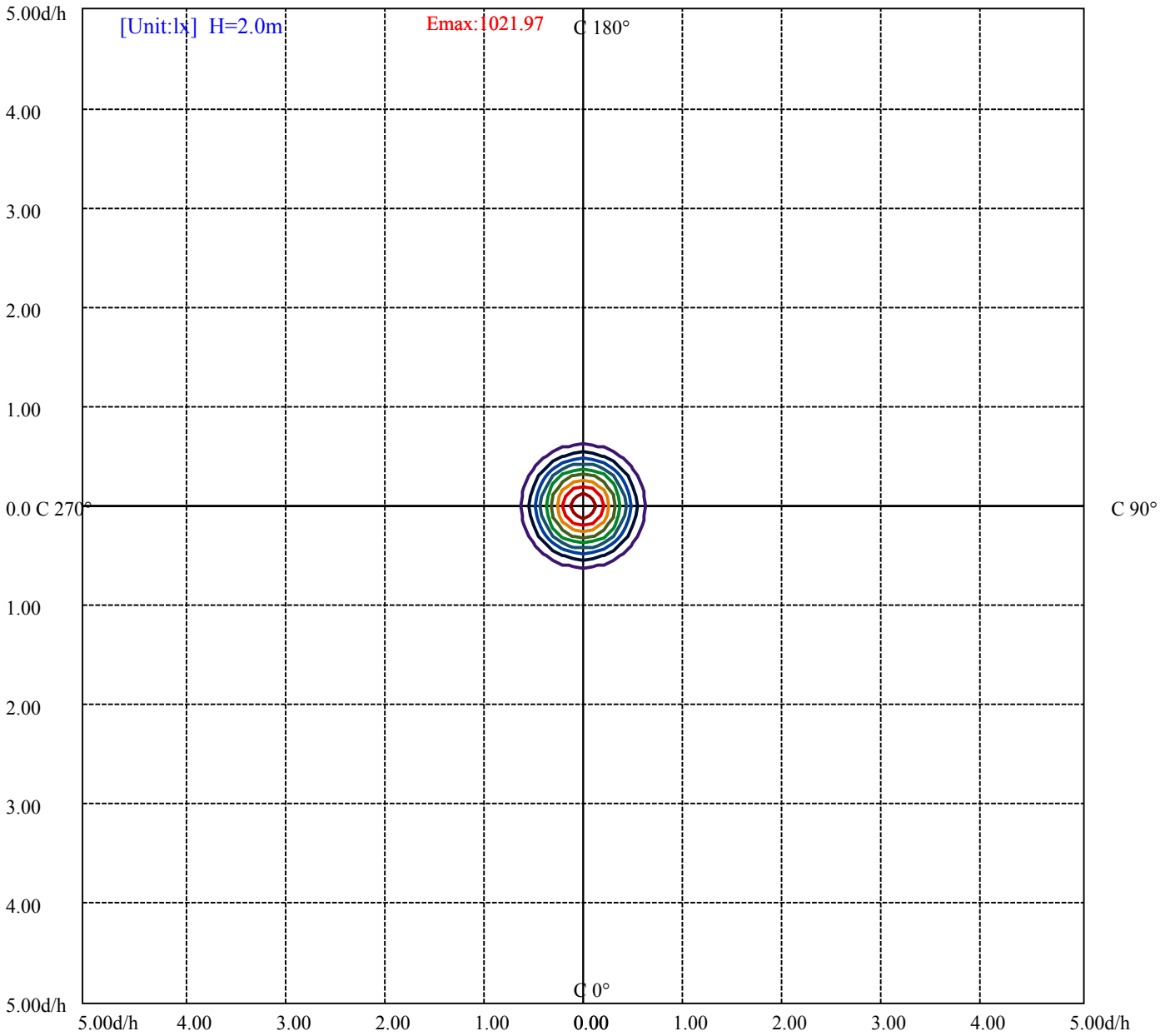
House

[Unit:cd]

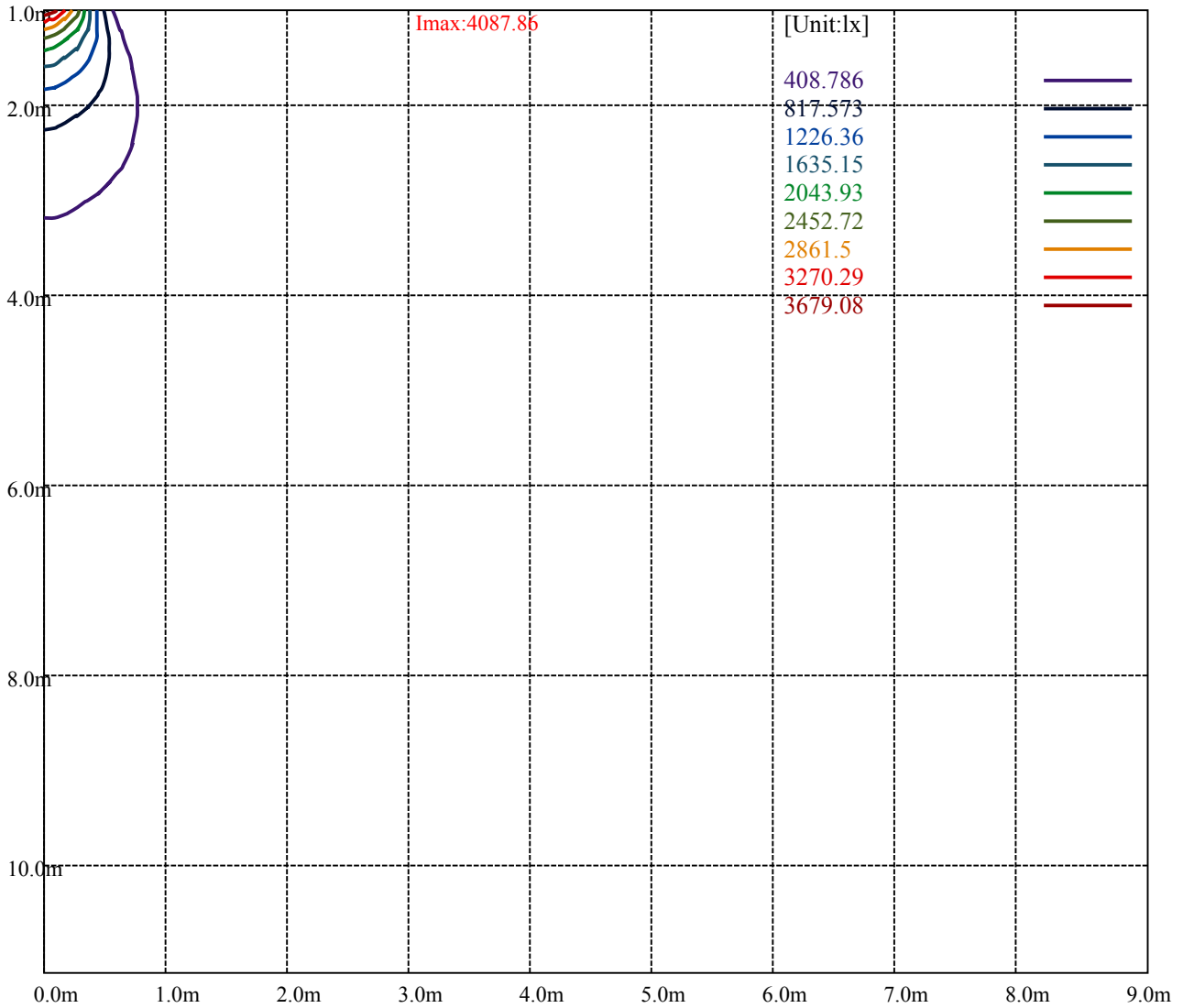
Road

Imax:4087.86

(10%Imax)	408.786	—
(20%Imax)	817.573	—
(30%Imax)	1226.36	—
(40%Imax)	1635.15	—
(50%Imax)	2043.93	—
(60%Imax)	2452.72	—
(70%Imax)	2861.5	—
(80%Imax)	3270.29	—
(90%Imax)	3679.08	—



- (10%Emax) 102.1965
- (20%Emax) 204.393
- (30%Emax) 306.59
- (40%Emax) 408.785
- (50%Emax) 510.9825
- (60%Emax) 613.18
- (70%Emax) 715.375
- (80%Emax) 817.5725
- (90%Emax) 919.77



Luminance Table

$\gamma$	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

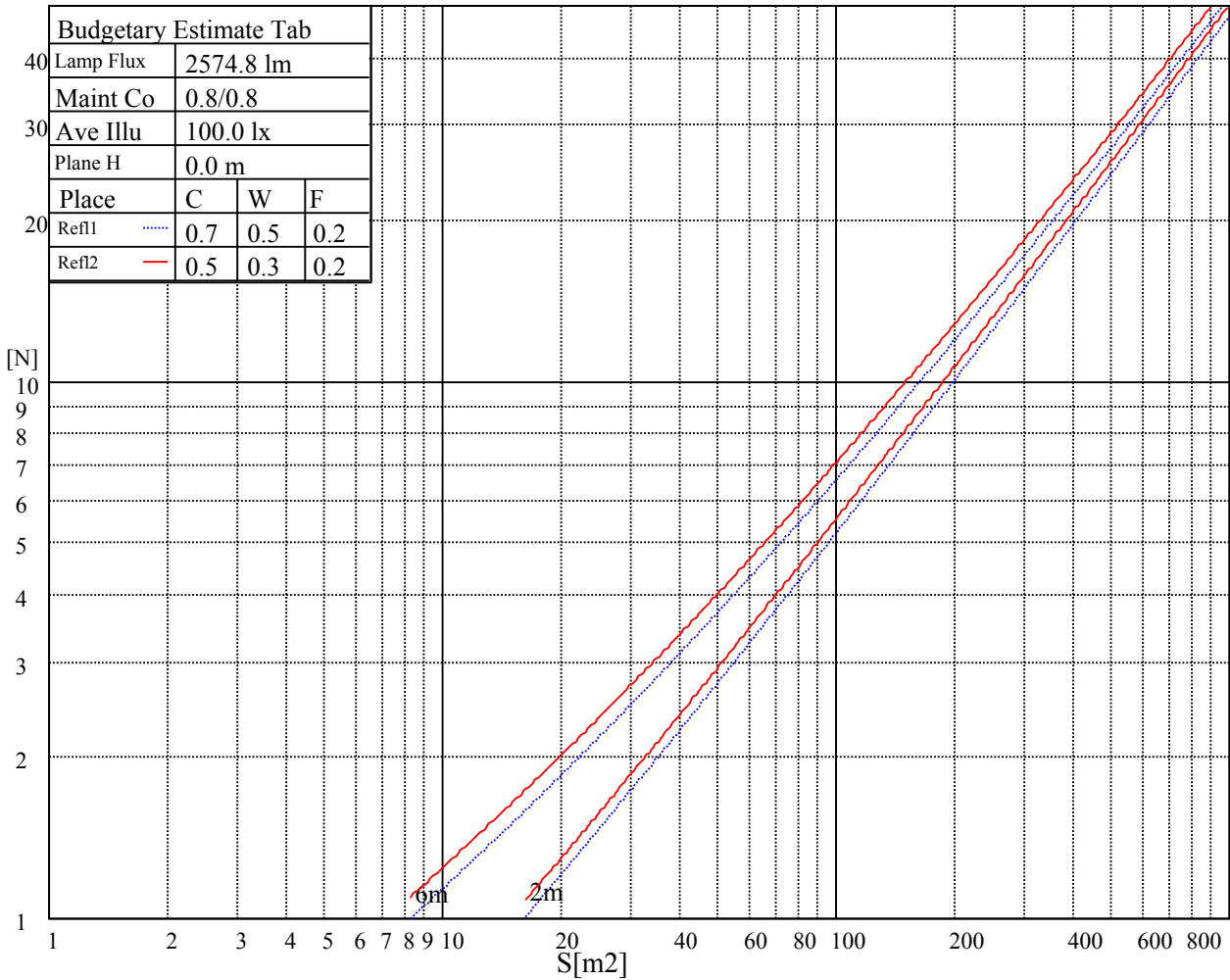
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

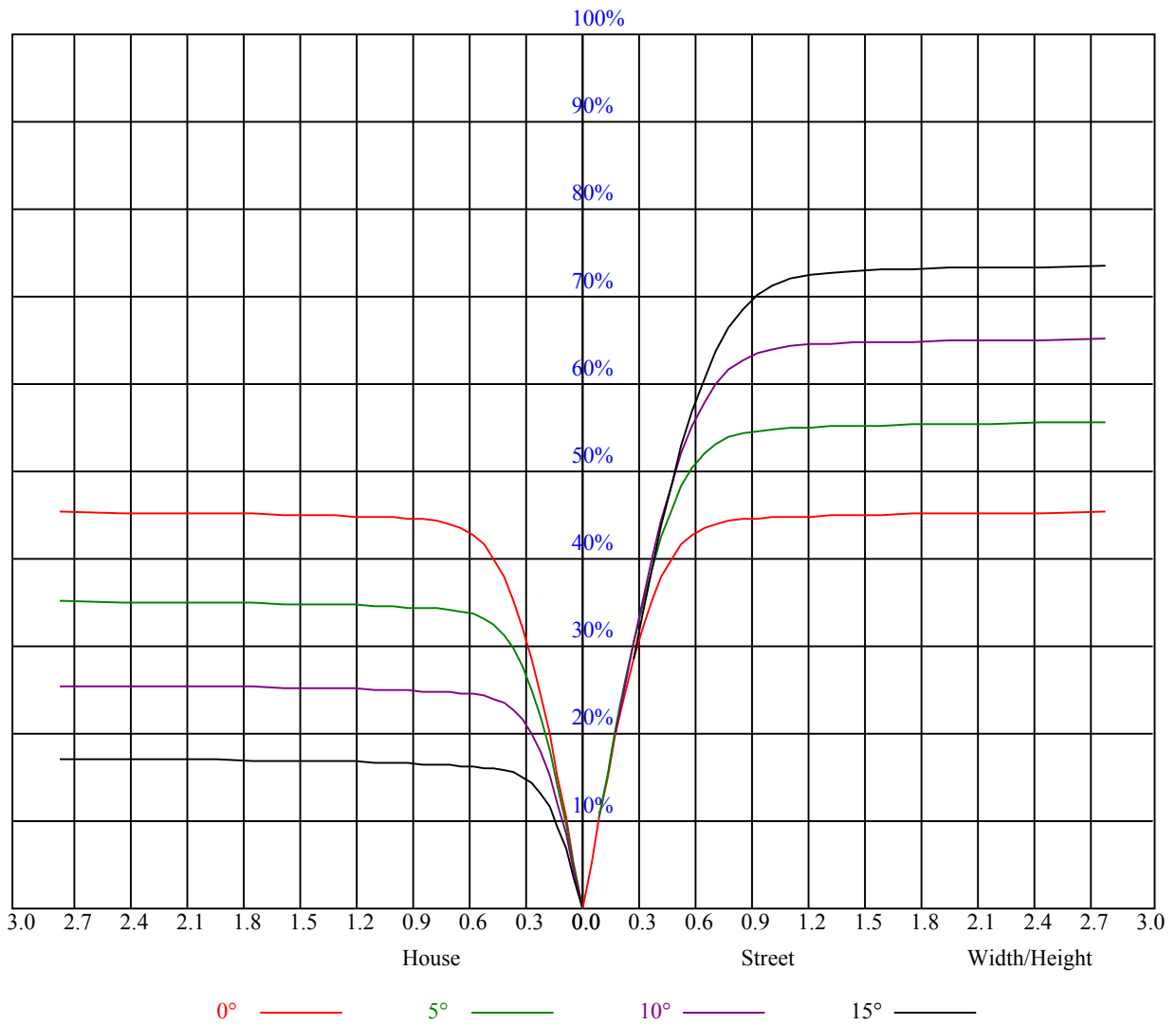


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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	1.09	1.09	1.09	1.06	1.06	1.06	1.02	1.02	1.02	0.97	0.97	0.97	0.93	0.93	0.93	0.91
1	1.02	0.99	0.97	1.00	0.98	0.96	0.96	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.88	0.86
2	0.95	0.92	0.89	0.94	0.91	0.88	0.91	0.88	0.86	0.88	0.86	0.84	0.86	0.84	0.82	0.81
3	0.90	0.85	0.82	0.88	0.85	0.81	0.86	0.83	0.80	0.84	0.81	0.79	0.82	0.80	0.78	0.76
4	0.85	0.80	0.77	0.84	0.79	0.76	0.82	0.78	0.75	0.80	0.77	0.74	0.78	0.76	0.74	0.72
5	0.80	0.75	0.72	0.79	0.75	0.71	0.78	0.74	0.71	0.76	0.73	0.70	0.75	0.72	0.70	0.68
6	0.76	0.71	0.68	0.75	0.71	0.67	0.74	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.66	0.65
7	0.72	0.67	0.64	0.72	0.67	0.64	0.71	0.67	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.62
8	0.69	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.60	0.59
9	0.66	0.61	0.58	0.65	0.61	0.58	0.65	0.60	0.57	0.64	0.60	0.57	0.63	0.60	0.57	0.56
10	0.63	0.58	0.55	0.62	0.58	0.55	0.62	0.58	0.55	0.61	0.57	0.55	0.60	0.57	0.54	0.53





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	4055.20	4033.62	3995.98	3941.18	3868.66	3801.69	3740.80	3689.32	3609.05
45.0	4102.81	4086.76	4046.35	4008.15	3949.48	3874.75	3814.97	3740.80	3668.28
90.0	4087.86	4050.78	4019.22	3962.76	3894.68	3831.02	3754.08	3687.66	3625.66
135.0	4105.58	4092.85	4064.06	4031.96	3974.39	3921.80	3855.93	3774.01	3708.14
180.0	4055.20	4104.47	4101.70	4072.36	4050.22	4009.81	3953.91	3880.29	3809.43
225.0	4102.81	4095.06	4072.92	4048.56	3999.85	3947.27	3875.31	3814.42	3755.19
270.0	4087.86	4106.68	4088.97	4061.29	4038.05	3990.44	3937.86	3864.79	3795.60
315.0	4105.58	4070.70	4055.76	4027.53	3964.98	3894.68	3841.54	3776.78	3697.62
360.0	4055.20	4033.62	3995.98	3941.18	3868.66	3801.69	3740.80	3689.32	3609.05
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3538.76	3463.47	3373.25	3296.31	3184.49	3093.16	2980.79	2856.80	2711.22
45.0	3609.61	3534.33	3461.26	3371.59	3297.97	3214.94	3127.48	3002.93	2891.67
90.0	3557.58	3456.28	3385.43	3305.16	3228.22	3140.21	3019.54	2923.22	2792.04
135.0	3626.21	3551.49	3478.97	3379.34	3300.18	3216.60	3128.03	3004.04	2902.19
180.0	3739.69	3669.39	3600.75	3529.35	3433.03	3352.77	3271.40	3178.40	3059.39
225.0	3679.91	3614.04	3544.29	3480.63	3384.87	3300.74	3189.47	3091.50	2984.11
270.0	3736.92	3687.66	3606.84	3540.97	3472.33	3387.09	3304.06	3219.92	3112.53
315.0	3648.91	3579.16	3485.62	3421.96	3350.00	3246.49	3157.92	3049.98	2937.06
360.0	3538.76	3463.47	3373.25	3296.31	3184.49	3093.16	2980.79	2856.80	2711.22
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2583.91	2449.95	2312.67	2144.40	2003.80	1850.47	1657.29	1497.87	1094.62
45.0	2781.52	2638.71	2503.09	2339.80	2210.82	2078.53	1929.63	1729.25	1566.51
90.0	2679.67	2558.44	2395.15	2254.55	2108.97	1922.43	1766.89	1611.34	1453.59
135.0	2802.00	2695.17	2551.25	2431.13	2304.37	2138.86	1991.07	1838.85	1636.25
180.0	2953.11	2840.75	2727.27	2573.94	2449.40	2282.78	2139.97	1991.62	1800.65
225.0	2847.39	2728.38	2594.42	2457.15	2276.14	2121.70	1957.30	1795.12	1599.72
270.0	3010.68	2898.87	2768.23	2612.69	2472.65	2335.37	2164.33	2012.10	1850.47
315.0	2792.04	2669.15	2538.52	2397.92	2221.34	2074.10	1918.00	1722.60	1567.61
360.0	2583.91	2449.95	2312.67	2144.40	2003.80	1850.47	1657.29	1497.87	1094.62
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1094.62	983.85	839.99	674.26	559.62	461.26	374.97	284.79	225.73
45.0	1402.11	1237.15	1038.43	887.87	749.49	627.16	495.41	406.30	313.85
90.0	1082.88	1082.88	923.52	776.50	612.99	500.23	405.30	307.43	244.33
135.0	1474.07	1305.79	1104.86	953.19	808.72	675.31	531.95	436.19	354.26
180.0	1646.22	1483.48	1320.18	1119.25	961.49	815.91	650.40	537.48	440.06
225.0	1439.75	1073.53	1073.53	913.00	769.86	613.93	506.37	415.32	320.88
270.0	1701.57	1497.87	1328.49	1154.12	945.99	791.00	625.50	513.68	417.92
315.0	1075.47	1075.47	1035.06	881.45	705.87	582.60	477.04	387.59	296.97
360.0	1094.62	983.85	839.99	674.26	559.62	461.26	374.97	284.79	225.73
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	178.13	140.71	105.89	85.58	70.52	57.68	50.81	45.56	40.52
45.0	280.64	280.64	144.42	115.02	93.27	77.00	62.72	54.91	49.10
90.0	182.39	145.30	116.52	91.50	77.27	67.03	59.12	50.98	45.67
135.0	285.07	285.07	164.62	129.80	98.97	81.43	68.64	57.07	50.59
180.0	357.03	287.29	287.29	164.95	129.64	97.15	78.55	62.66	54.03
225.0	258.56	206.63	164.29	123.11	98.64	80.21	66.92	55.74	49.38
270.0	337.66	286.18	286.18	160.30	128.48	98.25	80.37	67.25	58.12
315.0	237.85	189.97	151.50	113.92	91.61	72.13	61.22	53.47	46.44
360.0	178.13	140.71	105.89	85.58	70.52	57.68	50.81	45.56	40.52

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	37.25	33.82	31.61	29.72	28.06	26.29	25.08	24.02	23.14
45.0	44.62	39.97	36.87	34.26	31.50	29.61	27.84	26.13	25.02
90.0	41.52	38.30	35.65	32.71	30.67	28.51	27.12	25.85	24.52
135.0	44.17	40.19	36.81	34.04	31.22	29.34	27.68	26.24	24.80
180.0	47.83	43.18	38.69	35.65	33.05	30.83	28.62	27.07	25.79
225.0	44.50	39.58	36.31	33.10	31.05	29.23	27.29	26.02	24.85
270.0	50.21	45.50	40.74	37.64	34.93	32.16	30.28	28.62	27.18
315.0	42.07	38.53	34.93	32.49	30.44	28.67	26.79	25.46	24.36
360.0	37.25	33.82	31.61	29.72	28.06	26.29	25.08	24.02	23.14
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	22.03	21.31	20.70	20.09	19.43	18.99	18.43	18.05	17.66
45.0	23.97	22.81	22.03	21.37	20.59	19.98	19.48	18.99	18.49
90.0	23.58	22.69	21.75	21.09	20.43	19.87	19.21	18.76	18.32
135.0	23.86	22.97	21.92	21.26	20.65	19.93	19.43	18.99	18.43
180.0	24.36	23.47	22.58	21.64	20.98	20.26	19.71	19.21	18.71
225.0	23.91	23.03	21.98	21.31	20.65	20.09	19.32	18.88	18.32
270.0	25.57	24.47	23.53	22.64	21.70	20.98	20.37	19.65	19.15
315.0	23.41	22.36	21.64	20.92	20.20	19.65	19.04	18.60	18.16
360.0	22.03	21.31	20.70	20.09	19.43	18.99	18.43	18.05	17.66
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	17.21	16.88	16.55	16.22	15.83	15.44	15.17	14.83	14.45
45.0	18.05	17.71	17.33	16.88	16.55	16.11	15.83	15.50	15.06
90.0	17.88	17.44	17.05	16.66	16.27	15.89	15.44	15.11	14.78
135.0	17.99	17.60	17.21	16.83	16.50	16.16	15.83	15.44	15.11
180.0	18.16	17.77	17.38	17.05	16.66	16.33	16.00	15.61	15.28
225.0	17.93	17.55	17.10	16.72	16.38	16.00	15.67	15.39	15.06
270.0	18.71	18.16	17.71	17.27	16.88	16.50	16.22	15.78	15.39
315.0	17.66	17.21	16.88	16.61	16.22	15.83	15.55	15.22	14.89
360.0	17.21	16.88	16.55	16.22	15.83	15.44	15.17	14.83	14.45
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	14.17	13.89	13.51	13.28	13.01	12.62	12.34	11.96	11.68
45.0	14.72	14.39	14.12	13.67	13.34	13.06	12.79	12.45	12.18
90.0	14.39	14.12	13.78	13.45	13.06	12.79	12.45	12.18	11.90
135.0	14.78	14.39	14.12	13.73	13.40	13.06	12.79	12.45	12.18
180.0	15.00	14.61	14.34	14.06	13.67	13.34	13.01	12.79	12.40
225.0	14.67	14.34	14.06	13.78	13.40	13.06	12.73	12.40	12.12
270.0	15.06	14.72	14.34	14.06	13.73	13.34	13.06	12.73	12.34
315.0	14.56	14.23	13.95	13.56	13.28	12.90	12.57	12.29	12.01
360.0	14.17	13.89	13.51	13.28	13.01	12.62	12.34	11.96	11.68
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	11.46	11.18	11.02	10.74	10.52	10.30	10.13	9.96	9.96
45.0	11.90	11.57	11.24	10.96	10.74	10.46	10.24	10.07	9.91
90.0	11.57	11.29	11.02	10.79	10.46	10.30	10.07	9.85	9.85
135.0	11.90	11.57	11.24	11.02	10.79	10.52	10.35	10.13	9.91
180.0	12.12	11.79	11.51	11.29	11.02	10.74	10.52	10.35	10.13
225.0	11.79	11.57	11.24	11.02	10.74	10.41	10.24	10.07	9.91
270.0	12.07	11.73	11.46	11.18	10.90	10.68	10.35	10.19	9.96
315.0	11.68	11.40	11.18	10.90	10.68	10.46	10.24	10.07	9.91
360.0	11.46	11.18	11.02	10.74	10.52	10.30	10.13	9.96	9.96

Intensity data(cd)

<i>C/γ</i> (°)	90.0
0.0	9.91
45.0	9.91
90.0	9.85
135.0	9.91
180.0	9.96
225.0	9.85
270.0	9.85
315.0	9.85
360.0	9.91