



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

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## NATA

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Client:

LumCAT: 2-2646-L Luminaire:

92.70.411.00 Report No: 2023829-B006

Ballast type: AC

Test No: 2023829-C006

LampCAT: LUXEON CoB 1205 LES13

Voltage(V): 35.190

Lamp flux(lm): 1852.5 Number of Lamps:

Current(A): 0.433

1 Length(mm): 0

Power (W): 15.237

Phm Type: C

PF: 0.000

Width(mm): 0

Height(mm): 0

## Photometric Results

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Lumens(lm): 1693.70, Efficiency(%): 91.43% , Luminous Efficacy(lm/W): 111.16

Central intensity(cd): 3098.224, Maximum intensity(cd): 3098.224

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

Beam Angle(50%Imax): [C0/180]Total=45.2

[C90/270]Total=45.2

Field angle(10%Imax): [C0/180]Total=66.0

[C90/270]Total=66.0

Maximum s/h(1/2): C0\_180=0.72 C90\_270=0.72

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(%): 91.43%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 98.019%

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Equipment: GMS1980  
Temperature(°C): 25.0

Date: 2023/8/29  
Humidity(%): 60.0%

Operator: NT07  
Distance(m): 7.44

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3098.224	0.000	0	0.00%	0.00%
1.0	3085.424	2.959	2.959	0.16%	0.17%
2.0	3051.865	8.809	11.768	0.48%	0.69%
3.0	3006.337	14.489	26.257	0.78%	1.55%
4.0	2956.657	19.960	46.217	1.08%	2.73%
5.0	2909.745	25.237	71.454	1.36%	4.22%
6.0	2858.335	30.313	101.767	1.64%	6.01%
7.0	2811.769	35.194	136.961	1.90%	8.09%
8.0	2759.322	39.871	176.832	2.15%	10.44%
9.0	2702.792	44.267	221.1	2.39%	13.05%
10.0	2647.646	48.420	269.519	2.61%	15.91%
11.0	2588.071	52.316	321.835	2.82%	19.00%
12.0	2529.604	55.944	377.778	3.02%	22.30%
13.0	2456.953	59.178	436.956	3.19%	25.80%
14.0	2384.163	61.966	498.922	3.34%	29.46%
15.0	2313.379	64.490	563.412	3.48%	33.27%
16.0	2226.128	66.516	629.928	3.59%	37.19%
17.0	2132.511	67.876	697.804	3.66%	41.20%
18.0	2032.252	68.668	766.472	3.71%	45.25%
19.0	1933.792	69.001	835.473	3.72%	49.33%
20.0	1823.500	68.769	904.242	3.71%	53.39%
21.0	1716.460	67.974	972.216	3.67%	57.40%
22.0	1614.332	66.934	1039.15	3.61%	61.35%
23.0	1508.676	65.529	1104.679	3.54%	65.22%
24.0	1369.144	62.919	1167.599	3.40%	68.94%
25.0	1239.575	59.317	1226.915	3.20%	72.44%
26.0	1163.526	56.725	1283.641	3.06%	75.79%
27.0	1059.371	54.384	1338.024	2.94%	79.00%
28.0	927.546	50.305	1388.329	2.72%	81.97%
29.0	788.415	44.894	1433.223	2.42%	84.62%
30.0	650.758	38.857	1472.08	2.10%	86.92%
31.0	529.478	32.844	1504.925	1.77%	88.85%
32.0	415.297	27.067	1531.991	1.46%	90.45%
33.0	307.787	21.302	1553.294	1.15%	91.71%
34.0	238.200	16.523	1569.817	0.89%	92.69%
35.0	196.485	13.500	1583.317	0.73%	93.48%
36.0	138.273	10.659	1593.975	0.58%	94.11%
37.0	91.963	7.509	1601.484	0.41%	94.56%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	76.734	5.631	1607.115	0.30%	94.89%
39.0	65.864	4.867	1611.983	0.26%	95.18%
40.0	57.090	4.288	1616.271	0.23%	95.43%
41.0	49.943	3.811	1620.082	0.21%	95.65%
42.0	44.407	3.428	1623.51	0.19%	95.86%
43.0	39.453	3.106	1626.617	0.17%	96.04%
44.0	35.641	2.834	1629.451	0.15%	96.21%
45.0	32.707	2.627	1632.077	0.14%	96.36%
46.0	30.265	2.463	1634.54	0.13%	96.51%
47.0	28.182	2.325	1636.865	0.13%	96.64%
48.0	26.487	2.210	1639.075	0.12%	96.77%
49.0	24.923	2.111	1641.186	0.11%	96.90%
50.0	23.560	2.021	1643.207	0.11%	97.02%
51.0	22.308	1.941	1645.148	0.10%	97.13%
52.0	21.277	1.870	1647.018	0.10%	97.24%
53.0	20.301	1.809	1648.827	0.10%	97.35%
54.0	19.422	1.751	1650.578	0.09%	97.45%
55.0	18.599	1.697	1652.275	0.09%	97.55%
56.0	17.907	1.650	1653.924	0.09%	97.65%
57.0	17.277	1.609	1655.533	0.09%	97.75%
58.0	16.689	1.571	1657.104	0.08%	97.84%
59.0	16.136	1.535	1658.638	0.08%	97.93%
60.0	15.644	1.501	1660.14	0.08%	98.02%
61.0	15.195	1.472	1661.611	0.08%	98.11%
62.0	14.738	1.442	1663.054	0.08%	98.19%
63.0	14.344	1.414	1664.468	0.08%	98.27%
64.0	13.942	1.388	1665.856	0.07%	98.36%
65.0	13.596	1.363	1667.219	0.07%	98.44%
66.0	13.250	1.339	1668.558	0.07%	98.52%
67.0	12.897	1.315	1669.873	0.07%	98.59%
68.0	12.565	1.290	1671.163	0.07%	98.67%
69.0	12.275	1.267	1672.43	0.07%	98.74%
70.0	11.949	1.244	1673.674	0.07%	98.82%
71.0	11.652	1.220	1674.894	0.07%	98.89%
72.0	11.354	1.196	1676.09	0.06%	98.96%
73.0	11.085	1.173	1677.264	0.06%	99.03%
74.0	10.801	1.151	1678.414	0.06%	99.10%
75.0	10.510	1.126	1679.54	0.06%	99.16%

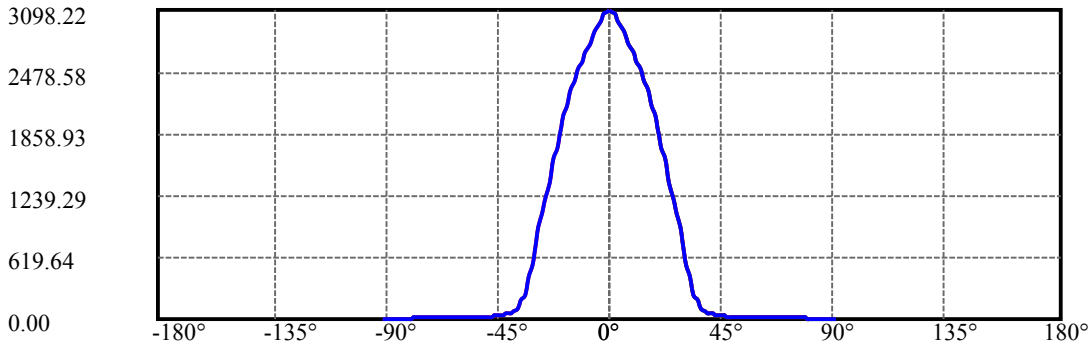
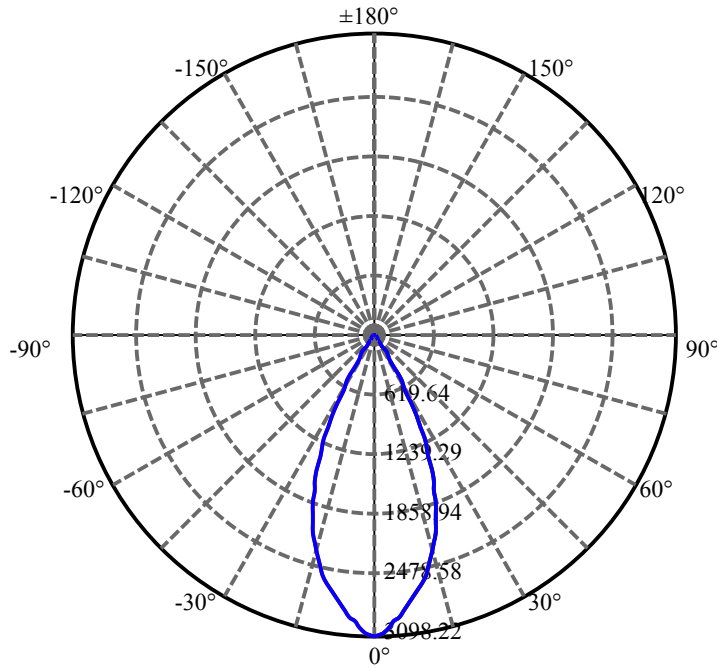
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	10.233	1.101	1680.642	0.06%	99.23%
77.0	9.964	1.077	1681.718	0.06%	99.29%
78.0	9.728	1.054	1682.773	0.06%	99.35%
79.0	9.465	1.031	1683.804	0.06%	99.42%
80.0	9.203	1.006	1684.81	0.05%	99.48%
81.0	9.002	0.984	1685.795	0.05%	99.53%
82.0	8.753	0.963	1686.758	0.05%	99.59%
83.0	8.531	0.940	1687.697	0.05%	99.65%
84.0	8.310	0.917	1688.615	0.05%	99.70%
85.0	8.123	0.897	1689.511	0.05%	99.75%
86.0	7.888	0.875	1690.387	0.05%	99.80%
87.0	7.736	0.855	1691.242	0.05%	99.85%
88.0	7.535	0.837	1692.078	0.05%	99.90%
89.0	7.369	0.817	1692.895	0.04%	99.95%
90.0	7.293	0.804	1693.699	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1472.08	79.46%	86.92%
0-40	1616.27	87.25%	95.43%
0-60	1660.14	89.61%	98.02%
0-90	1692.90	91.38%	99.95%
0-120	1692.90	91.38%	99.95%
0-180	1693.70	91.43%	100.00%
60-90	32.76	1.77%	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%
0-27.34	1354.96	73.14%	80.00%

ZONAL LUMEN SUMMARY

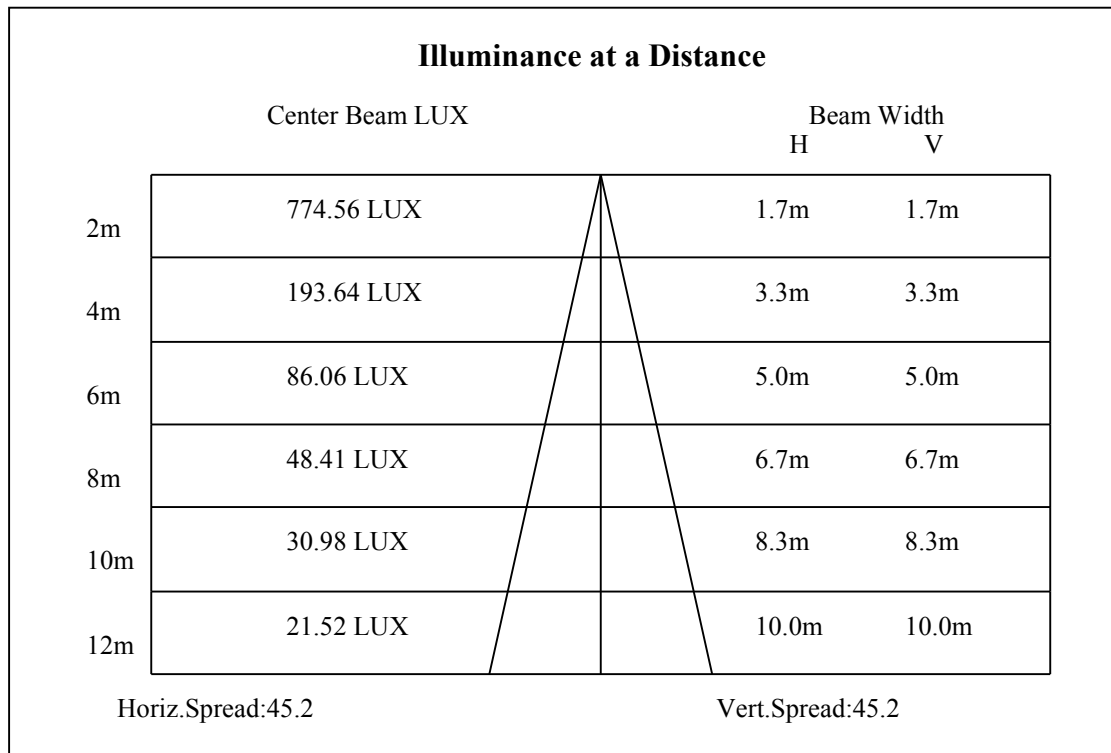
0-10	269.52
10-20	634.72
20-30	567.84
30-40	144.19
40-50	26.94
50-60	16.93
60-70	13.53
70-80	11.14
80-90	8.08
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

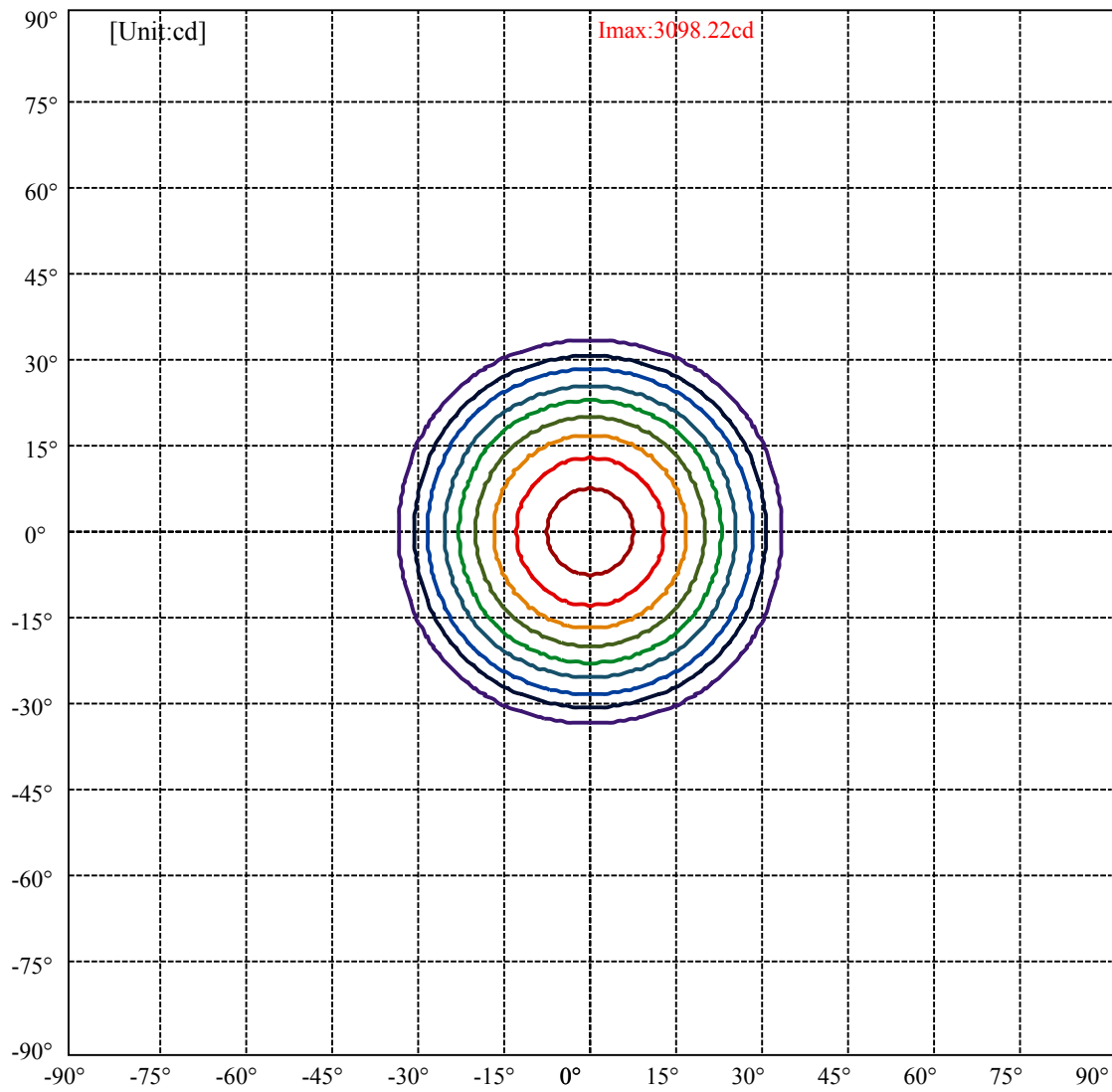


C0(Max): ———  
C0/C180: ———  
C90/C270: ———

Field angle(10%Imax):C0/180Left:33.0 Right:33.0  
:C90/270Left:33.0 Right:33.0

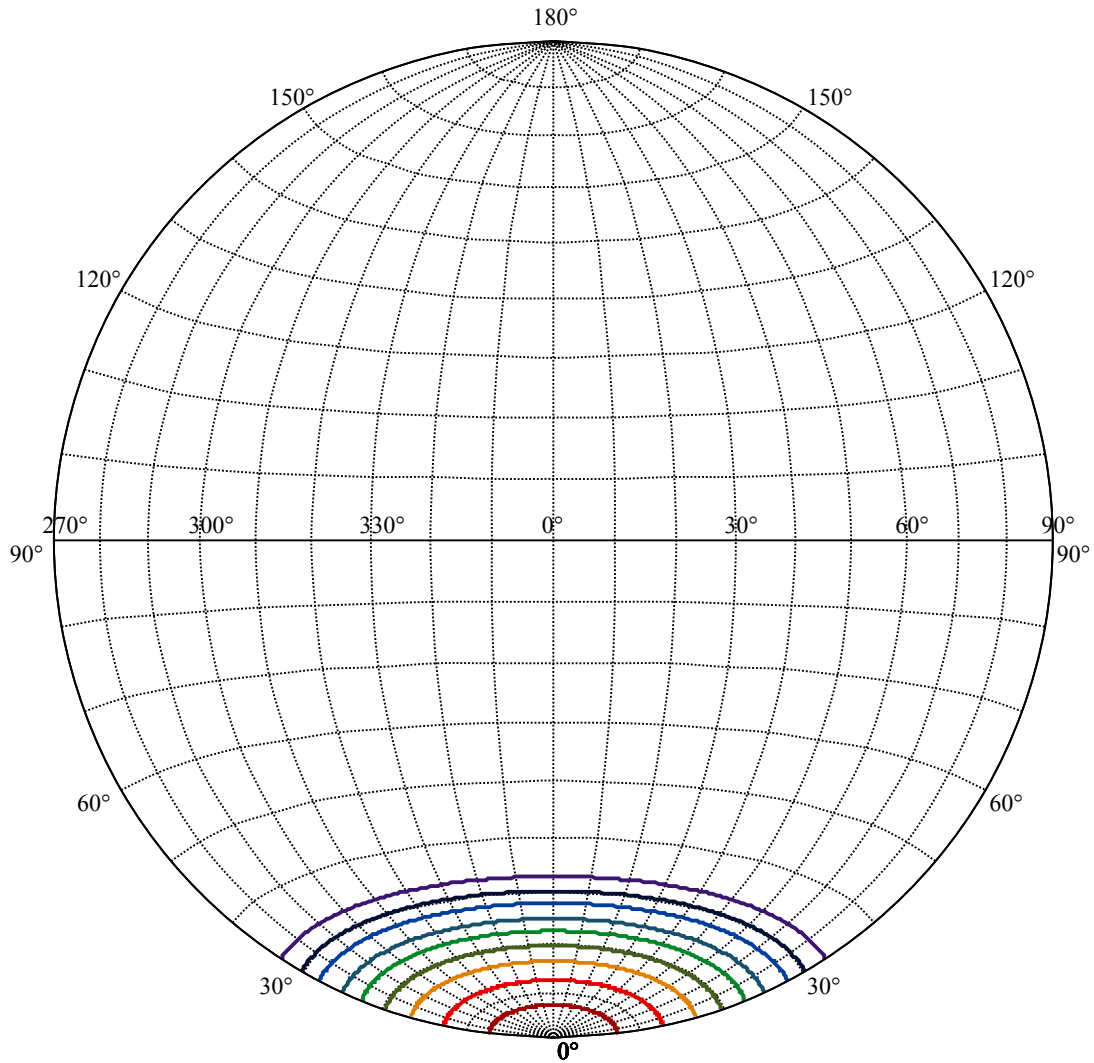
Beam Angle(50%Imax):C0/180Left:22.6 Right:22.6  
:C90/270Left:22.6 Right:22.6





(10%Imax) 309.822	—
(20%Imax) 619.645	—
(30%Imax) 929.467	—
(40%Imax) 1239.29	—
(50%Imax) 1549.11	—
(60%Imax) 1858.93	—
(70%Imax) 2168.76	—
(80%Imax) 2478.58	—
(90%Imax) 2788.4	—





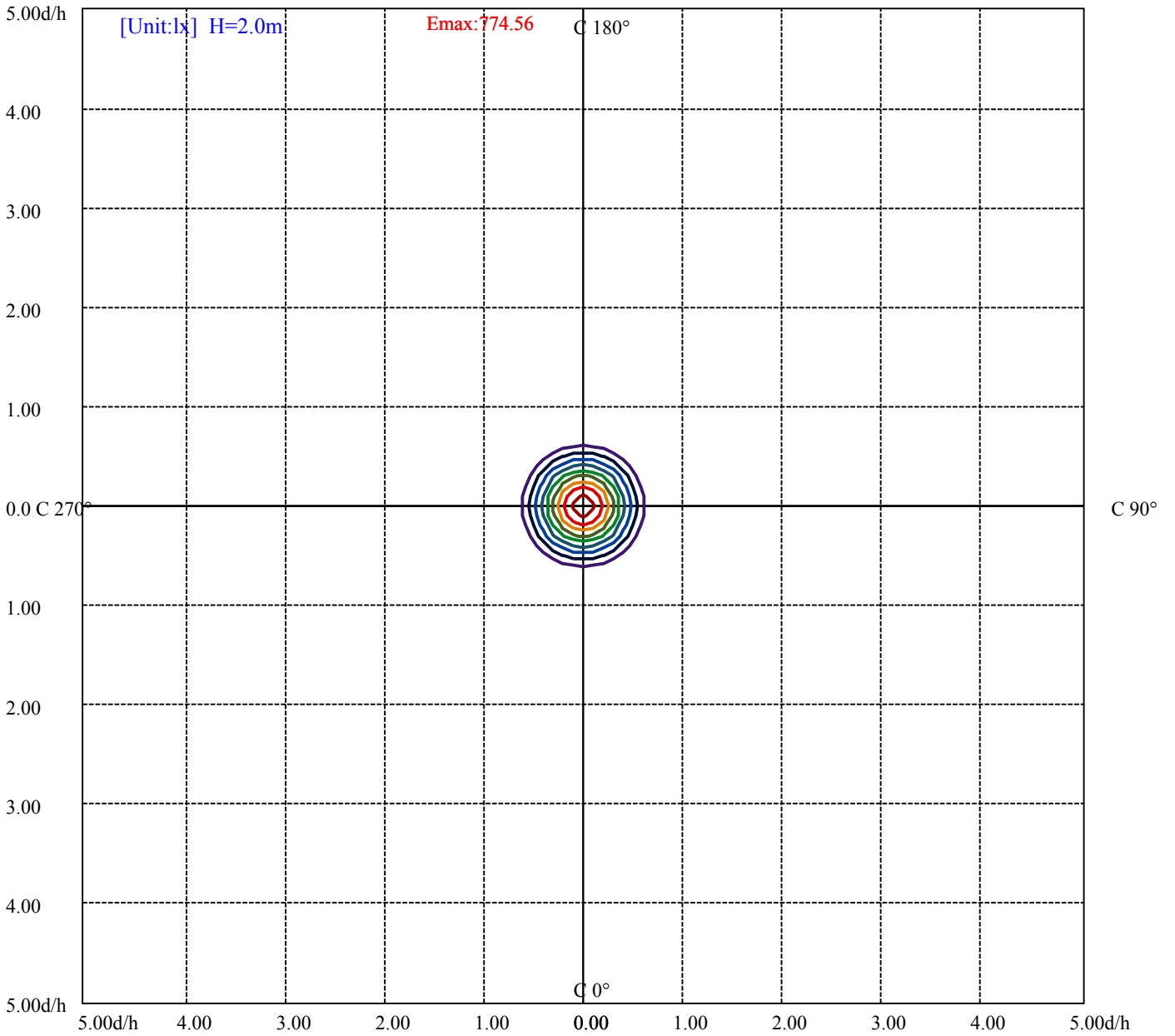
House

[Unit:cd]

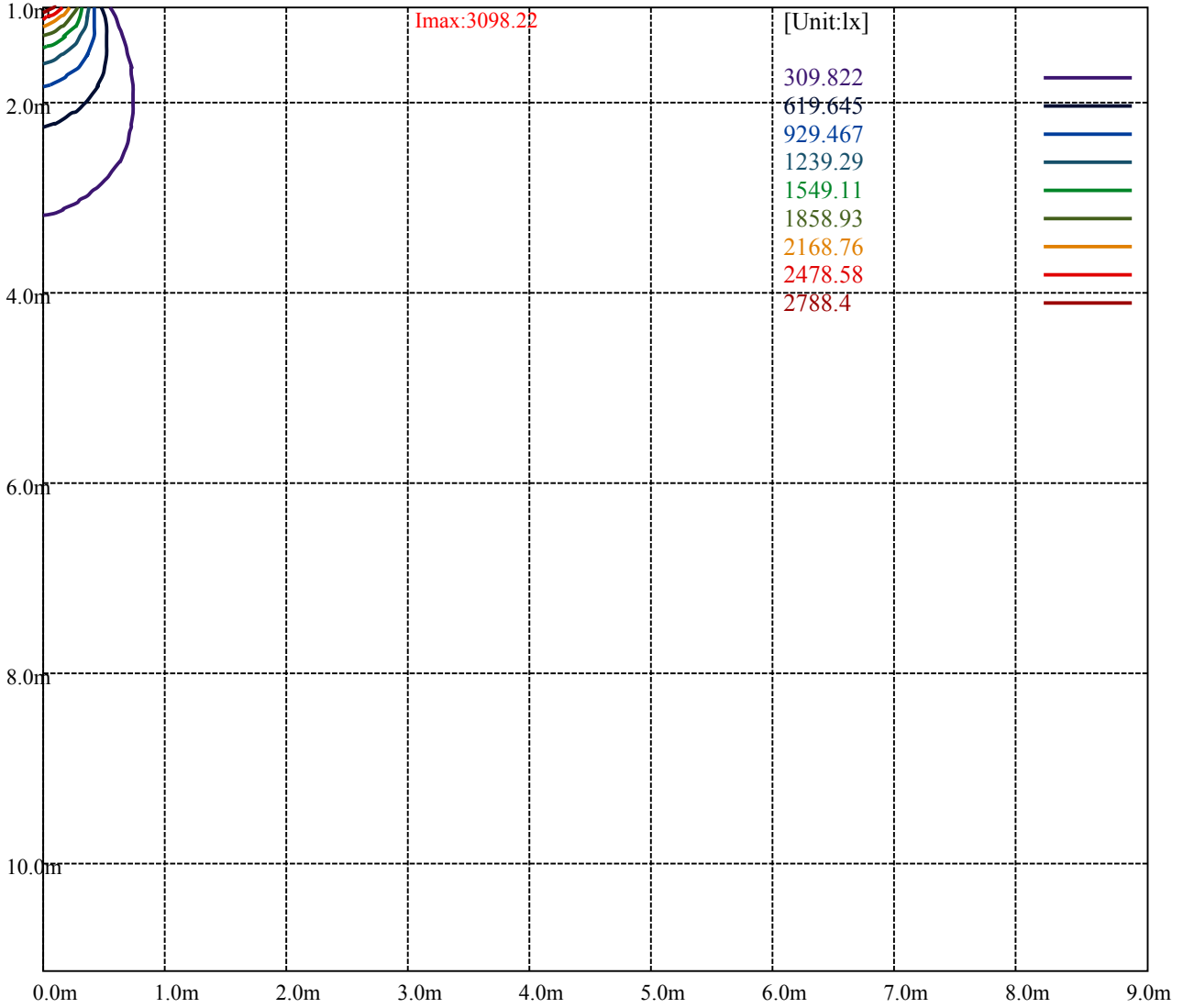
Road

Imax:3098.22

(10%Imax)	309.822	—
(20%Imax)	619.645	—
(30%Imax)	929.467	—
(40%Imax)	1239.29	—
(50%Imax)	1549.11	—
(60%Imax)	1858.93	—
(70%Imax)	2168.76	—
(80%Imax)	2478.58	—
(90%Imax)	2788.4	—



- (10%E<sub>max</sub>) 77.4555
- (20%E<sub>max</sub>) 154.911
- (30%E<sub>max</sub>) 232.3667
- (40%E<sub>max</sub>) 309.8225
- (50%E<sub>max</sub>) 387.2775
- (60%E<sub>max</sub>) 464.7325
- (70%E<sub>max</sub>) 542.19
- (80%E<sub>max</sub>) 619.645
- (90%E<sub>max</sub>) 697.1



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

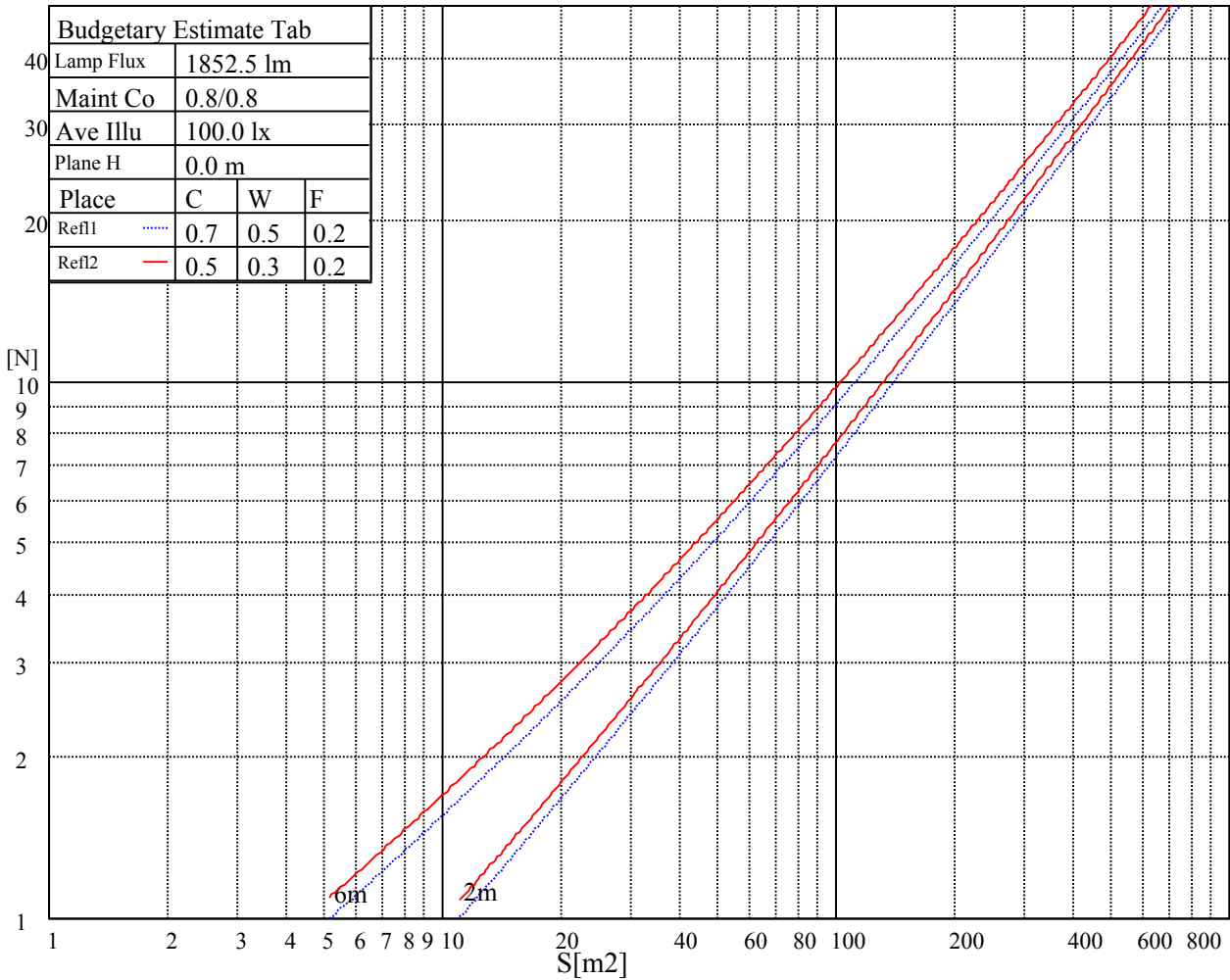
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

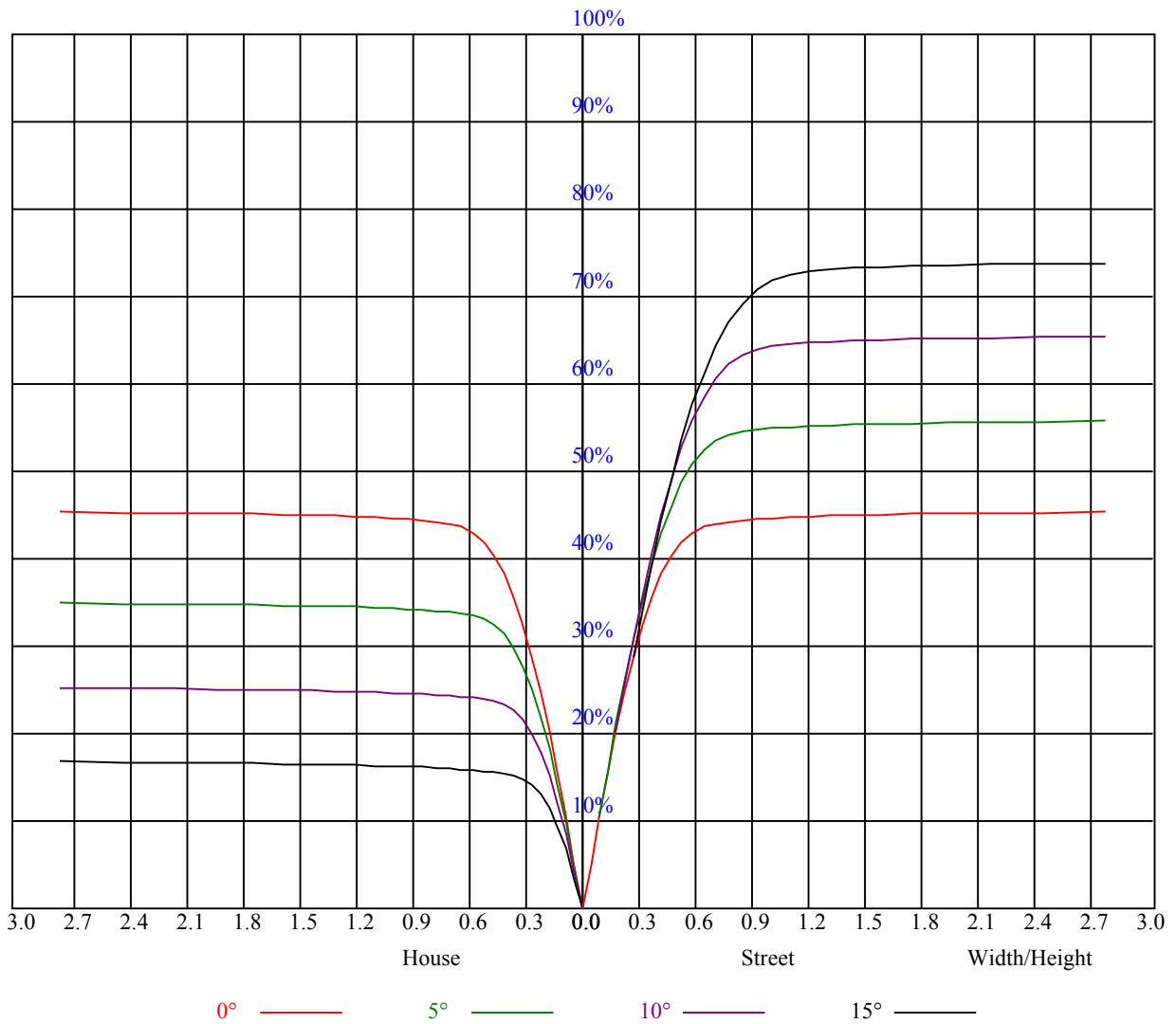


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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	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	0.93	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	0.83	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	0.73
5	0.80	0.76	0.72	0.80	0.75	0.72	0.78	0.74	0.71	0.77	0.73	0.71	0.75	0.72	0.70	0.69
6	0.76	0.72	0.68	0.76	0.71	0.68	0.74	0.70	0.67	0.73	0.70	0.67	0.72	0.69	0.67	0.65
7	0.73	0.68	0.64	0.72	0.68	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.63	0.62
8	0.69	0.65	0.61	0.69	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.61	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	0.58	0.64	0.60	0.58	0.57
10	0.63	0.59	0.56	0.63	0.59	0.55	0.62	0.58	0.55	0.62	0.58	0.55	0.61	0.58	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	3088.68	3052.14	3013.39	2964.13	2914.87	2872.24	2822.98	2781.46	2709.50
45.0	3106.94	3094.76	3052.14	3007.86	2951.95	2895.49	2849.55	2805.82	2752.13
90.0	3090.34	3039.96	2988.49	2932.02	2878.33	2824.09	2765.96	2723.34	2674.63
135.0	3106.94	3090.34	3050.48	2978.52	2918.74	2867.26	2810.80	2764.30	2726.66
180.0	3088.68	3109.16	3091.44	3054.36	3000.11	2949.18	2897.71	2837.92	2797.52
225.0	3106.94	3087.57	3053.25	3009.52	2965.79	2910.44	2864.49	2817.44	2768.73
270.0	3090.34	3106.94	3094.76	3073.18	3024.47	2997.90	2952.51	2913.76	2851.21
315.0	3106.94	3102.51	3070.96	3031.11	2999.00	2961.36	2902.69	2850.10	2794.19
360.0	3088.68	3052.14	3013.39	2964.13	2914.87	2872.24	2822.98	2781.46	2709.50
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2654.15	2579.42	2514.66	2449.89	2360.78	2289.37	2208.55	2117.77	2006.51
45.0	2695.66	2650.28	2592.15	2527.39	2462.07	2387.35	2322.58	2224.05	2143.24
90.0	2619.28	2557.28	2506.91	2442.70	2372.95	2287.16	2218.52	2128.84	2010.39
135.0	2665.22	2615.96	2563.37	2518.53	2437.72	2372.95	2304.32	2205.23	2118.88
180.0	2741.61	2693.45	2639.76	2590.49	2525.73	2469.82	2408.93	2341.96	2251.18
225.0	2702.31	2654.70	2602.12	2544.55	2465.95	2402.84	2317.05	2234.02	2135.49
270.0	2804.16	2747.70	2677.95	2618.72	2552.30	2471.48	2409.49	2312.62	2236.78
315.0	2739.95	2682.38	2607.65	2544.55	2478.13	2392.33	2317.60	2244.53	2157.63
360.0	2654.15	2579.42	2514.66	2449.89	2360.78	2289.37	2208.55	2117.77	2006.51
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1920.16	1818.86	1719.23	1601.32	1505.56	1410.35	1096.72	1096.72	1063.84
45.0	2032.53	1934.00	1836.58	1717.57	1623.47	1524.94	1428.07	1310.72	1203.89
90.0	1921.82	1826.06	1712.59	1623.47	1529.36	1409.80	1239.31	1088.03	1088.03
135.0	2023.67	1932.89	1810.01	1714.80	1625.68	1506.67	1413.68	1299.09	1192.81
180.0	2165.93	2071.83	1960.57	1834.92	1734.17	1613.50	1507.22	1413.68	1294.67
225.0	2007.07	1900.79	1800.04	1697.09	1573.65	1474.56	1370.50	1098.55	1098.55
270.0	2147.11	2047.47	1912.97	1805.58	1703.73	1609.63	1475.12	1380.46	1288.02
315.0	2039.72	1938.43	1836.02	1736.94	1619.04	1519.95	1422.53	1229.35	1078.40
360.0	1920.16	1818.86	1719.23	1601.32	1505.56	1410.35	1096.72	1096.72	1063.84
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	896.29	768.70	647.30	504.05	396.00	296.25	212.50	142.70	112.70
45.0	1079.89	947.60	785.41	663.63	550.16	440.56	313.80	291.66	291.66
90.0	924.85	792.94	666.68	517.33	408.40	310.70	226.73	148.90	114.42
135.0	1067.72	939.30	777.66	652.01	532.45	421.19	299.41	299.41	200.88
180.0	1196.14	1082.11	952.58	795.38	668.06	544.62	430.60	304.94	282.80
225.0	1038.88	915.99	762.72	641.33	526.36	388.25	292.54	210.07	135.45
270.0	1192.81	1053.88	925.46	773.23	646.47	521.93	384.65	288.89	288.89
315.0	1078.40	919.87	789.51	659.10	507.92	398.88	302.06	219.03	145.08
360.0	896.29	768.70	647.30	504.05	396.00	296.25	212.50	142.70	112.70
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	93.99	79.88	66.98	59.17	52.64	45.67	41.24	36.75	33.82
45.0	113.59	93.94	76.28	65.87	58.12	50.15	44.95	40.52	36.98
90.0	94.60	76.83	66.15	58.12	49.82	44.50	40.08	36.42	32.82
135.0	114.31	89.84	76.11	65.70	55.91	49.49	44.34	38.97	35.70
180.0	282.80	111.48	87.35	74.40	61.83	54.25	47.77	41.29	37.09
225.0	103.35	86.02	73.23	61.17	53.75	47.27	42.12	36.81	33.71
270.0	189.64	102.29	86.30	74.12	64.32	54.80	48.38	43.07	37.81
315.0	113.92	95.43	81.48	68.36	60.34	53.42	46.39	41.79	37.20
360.0	93.99	79.88	66.98	59.17	52.64	45.67	41.24	36.75	33.82

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	31.39	28.84	27.12	25.63	24.24	22.75	21.70	20.76	19.93
45.0	33.49	31.11	29.12	27.34	25.41	24.08	22.92	21.59	20.59
90.0	30.50	28.51	26.40	24.96	23.69	22.53	21.26	20.37	19.32
135.0	32.33	30.11	28.29	26.63	24.80	23.53	22.42	21.42	20.26
180.0	33.88	31.22	28.62	26.90	25.41	24.02	22.58	21.53	20.59
225.0	31.16	28.62	26.96	25.41	23.86	22.69	21.42	20.54	19.71
270.0	34.65	31.99	29.34	27.62	26.07	24.36	23.19	22.09	21.09
315.0	34.26	31.72	29.61	27.40	25.91	24.52	22.97	21.92	20.92
360.0	31.39	28.84	27.12	25.63	24.24	22.75	21.70	20.76	19.93
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	18.93	18.21	17.60	16.88	16.38	15.89	15.33	14.89	14.50
45.0	19.82	18.88	18.16	17.55	16.83	16.33	15.83	15.39	14.83
90.0	18.60	17.88	17.10	16.61	16.11	15.61	15.11	14.72	14.34
135.0	19.48	18.71	17.88	17.27	16.72	16.05	15.61	15.17	14.67
180.0	19.54	18.60	18.10	17.27	16.77	16.16	15.67	15.28	14.83
225.0	18.93	18.10	17.49	16.94	16.44	15.89	15.44	15.06	14.56
270.0	20.04	19.32	18.60	17.99	17.27	16.72	16.22	15.67	15.22
315.0	20.04	19.10	18.32	17.71	16.99	16.44	15.94	15.39	14.95
360.0	18.93	18.21	17.60	16.88	16.38	15.89	15.33	14.89	14.50
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	14.00	13.67	13.34	13.01	12.62	12.29	12.01	11.73	11.35
45.0	14.45	14.06	13.73	13.34	13.01	12.62	12.34	12.01	11.68
90.0	14.00	13.56	13.28	12.95	12.57	12.29	11.96	11.62	11.35
135.0	14.28	13.95	13.62	13.23	12.90	12.62	12.34	11.96	11.68
180.0	14.39	14.00	13.67	13.40	13.01	12.68	12.45	12.12	11.79
225.0	14.23	13.89	13.45	13.17	12.84	12.45	12.18	11.90	11.68
270.0	14.83	14.34	14.00	13.56	13.23	12.95	12.62	12.23	11.96
315.0	14.56	14.06	13.67	13.34	13.01	12.62	12.29	12.01	11.73
360.0	14.00	13.67	13.34	13.01	12.62	12.29	12.01	11.73	11.35
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	11.07	10.79	10.52	10.24	9.96	9.69	9.41	9.19	8.97
45.0	11.40	11.13	10.85	10.52	10.30	10.02	9.80	9.52	9.24
90.0	11.02	10.79	10.52	10.30	9.96	9.74	9.52	9.30	9.02
135.0	11.46	11.13	10.85	10.52	10.24	10.02	9.80	9.52	9.24
180.0	11.57	11.24	10.96	10.74	10.41	10.19	9.96	9.69	9.41
225.0	11.29	11.07	10.79	10.52	10.24	9.96	9.74	9.41	9.19
270.0	11.68	11.40	11.07	10.79	10.52	10.19	9.91	9.69	9.35
315.0	11.35	11.13	10.85	10.46	10.24	9.91	9.69	9.41	9.19
360.0	11.07	10.79	10.52	10.24	9.96	9.69	9.41	9.19	8.97
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	8.75	8.52	8.36	8.08	7.97	7.75	7.58	7.36	7.31
45.0	9.08	8.80	8.58	8.36	8.14	7.86	7.75	7.53	7.36
90.0	8.80	8.58	8.36	8.19	7.97	7.75	7.64	7.42	7.25
135.0	9.08	8.80	8.52	8.30	8.14	7.92	7.75	7.58	7.36
180.0	9.19	8.97	8.75	8.52	8.30	8.08	7.86	7.69	7.53
225.0	9.02	8.75	8.52	8.30	8.14	7.86	7.69	7.53	7.31
270.0	9.13	8.91	8.64	8.47	8.25	8.03	7.86	7.64	7.47
315.0	8.97	8.69	8.52	8.25	8.08	7.86	7.75	7.53	7.36
360.0	8.75	8.52	8.36	8.08	7.97	7.75	7.58	7.36	7.31

Intensity data(cd)

<b>C/γ(°)</b>	<b>90.0</b>
<b>0.0</b>	<b>7.31</b>
<b>45.0</b>	<b>7.31</b>
<b>90.0</b>	<b>7.31</b>
<b>135.0</b>	<b>7.31</b>
<b>180.0</b>	<b>7.25</b>
<b>225.0</b>	<b>7.31</b>
<b>270.0</b>	<b>7.31</b>
<b>315.0</b>	<b>7.25</b>
<b>360.0</b>	<b>7.31</b>