



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: 4-2642-A2

Luminaire: BJB 47.319.2021

Report No: 20230306-B011

Ballast type: AC

Test No: 20230306-C011

Voltage(V): 34.560

LampCAT: CITIZEN CLU038

Current(A): 0.480

Lamp flux(lm): 2617.9

Power (W): 16.588

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): 2377.61, Efficiency(%): 90.82% , Luminous Efficacy(lm/W): 143.33

Central intensity(cd): 5823.518, Maximum intensity(cd): 5823.518

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

Beam Angle(50%Imax): [C0/180]Total=33.4

[C90/270]Total=33.4

Field angle(10%Imax): [C0/180]Total=66.4

[C90/270]Total=66.4

Maximum s/h(1/2): C0\_180=0.55 C90\_270=0.55

Maximum s/h(1/4): C0\_180=0.57 C90\_270=0.57

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 90.82%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 98.579%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5823.518	0.000	0	0.00%	0.00%
1.0	5822.248	5.572	5.572	0.21%	0.23%
2.0	5806.787	16.691	22.263	0.64%	0.94%
3.0	5776.537	27.704	49.967	1.06%	2.10%
4.0	5719.025	38.479	88.446	1.47%	3.72%
5.0	5623.943	48.797	137.243	1.86%	5.77%
6.0	5475.457	58.330	195.573	2.23%	8.23%
7.0	5312.108	66.958	262.532	2.56%	11.04%
8.0	5125.380	74.699	337.231	2.85%	14.18%
9.0	4914.900	81.371	418.602	3.11%	17.61%
10.0	4669.540	86.736	505.337	3.31%	21.25%
11.0	4429.557	90.919	596.256	3.47%	25.08%
12.0	4183.973	94.158	690.414	3.60%	29.04%
13.0	3900.221	95.939	786.353	3.66%	33.07%
14.0	3628.794	96.371	882.724	3.68%	37.13%
15.0	3376.114	96.166	978.89	3.67%	41.17%
16.0	3121.865	95.214	1074.104	3.64%	45.18%
17.0	2841.101	92.859	1166.963	3.55%	49.08%
18.0	2605.451	89.802	1256.765	3.43%	52.86%
19.0	2378.688	86.714	1343.479	3.31%	56.51%
20.0	2162.532	83.117	1426.596	3.17%	60.00%
21.0	1972.219	79.396	1505.992	3.03%	63.34%
22.0	1813.426	76.074	1582.066	2.91%	66.54%
23.0	1675.770	73.213	1655.278	2.80%	69.62%
24.0	1544.015	70.396	1725.675	2.69%	72.58%
25.0	1426.235	67.537	1793.212	2.58%	75.42%
26.0	1322.436	64.883	1858.094	2.48%	78.15%
27.0	1224.643	62.315	1920.409	2.38%	80.77%
28.0	1101.022	58.881	1979.29	2.25%	83.25%
29.0	1022.790	55.565	2034.855	2.12%	85.58%
30.0	939.413	52.979	2087.834	2.02%	87.81%
31.0	835.928	49.405	2137.239	1.89%	89.89%
32.0	726.110	44.751	2181.99	1.71%	91.77%
33.0	613.700	39.471	2221.461	1.51%	93.43%
34.0	483.401	33.201	2254.662	1.27%	94.83%
35.0	342.899	25.662	2280.324	0.98%	95.91%
36.0	212.212	17.675	2297.999	0.68%	96.65%
37.0	143.594	11.604	2309.604	0.44%	97.14%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	64.137	6.934	2316.537	0.26%	97.43%
39.0	28.278	3.154	2319.692	0.12%	97.56%
40.0	21.571	1.739	2321.43	0.07%	97.64%
41.0	18.792	1.437	2322.868	0.05%	97.70%
42.0	16.783	1.293	2324.16	0.05%	97.75%
43.0	15.379	1.191	2325.352	0.05%	97.80%
44.0	14.669	1.134	2326.486	0.04%	97.85%
45.0	14.221	1.110	2327.596	0.04%	97.90%
46.0	13.848	1.098	2328.694	0.04%	97.94%
47.0	13.527	1.089	2329.782	0.04%	97.99%
48.0	13.273	1.083	2330.866	0.04%	98.03%
49.0	13.011	1.079	2331.945	0.04%	98.08%
50.0	12.780	1.075	2333.02	0.04%	98.12%
51.0	12.585	1.073	2334.094	0.04%	98.17%
52.0	12.421	1.073	2335.167	0.04%	98.22%
53.0	12.257	1.073	2336.24	0.04%	98.26%
54.0	12.107	1.074	2337.314	0.04%	98.31%
55.0	11.988	1.076	2338.39	0.04%	98.35%
56.0	11.891	1.079	2339.469	0.04%	98.40%
57.0	11.764	1.082	2340.55	0.04%	98.44%
58.0	11.682	1.084	2341.634	0.04%	98.49%
59.0	11.600	1.088	2342.723	0.04%	98.53%
60.0	11.510	1.092	2343.814	0.04%	98.58%
61.0	11.413	1.094	2344.908	0.04%	98.62%
62.0	11.338	1.096	2346.005	0.04%	98.67%
63.0	11.278	1.100	2347.105	0.04%	98.72%
64.0	11.204	1.103	2348.208	0.04%	98.76%
65.0	11.144	1.106	2349.314	0.04%	98.81%
66.0	11.092	1.109	2350.423	0.04%	98.86%
67.0	11.039	1.113	2351.536	0.04%	98.90%
68.0	10.980	1.115	2352.651	0.04%	98.95%
69.0	10.927	1.118	2353.769	0.04%	99.00%
70.0	10.890	1.120	2354.889	0.04%	99.04%
71.0	10.838	1.123	2356.012	0.04%	99.09%
72.0	10.800	1.125	2357.138	0.04%	99.14%
73.0	10.770	1.128	2358.266	0.04%	99.19%
74.0	10.741	1.131	2359.396	0.04%	99.23%
75.0	10.688	1.132	2360.529	0.04%	99.28%

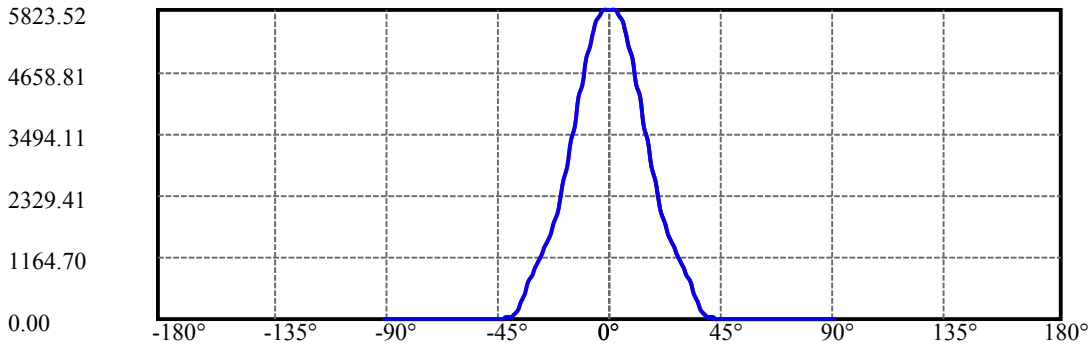
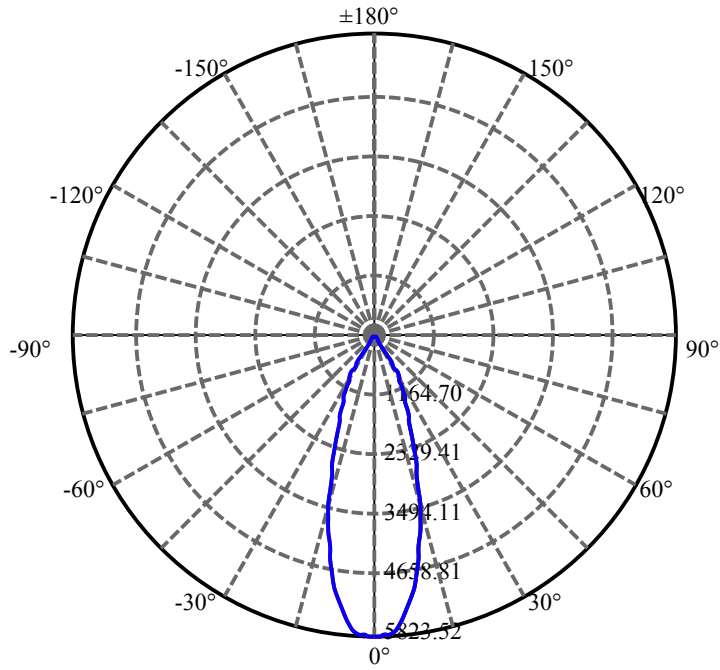
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	10.651	1.133	2361.661	0.04%	99.33%
77.0	10.629	1.135	2362.796	0.04%	99.38%
78.0	10.606	1.137	2363.933	0.04%	99.42%
79.0	10.569	1.138	2365.07	0.04%	99.47%
80.0	10.524	1.137	2366.208	0.04%	99.52%
81.0	10.517	1.138	2367.345	0.04%	99.57%
82.0	10.502	1.140	2368.485	0.04%	99.62%
83.0	10.472	1.140	2369.625	0.04%	99.66%
84.0	10.457	1.140	2370.765	0.04%	99.71%
85.0	10.434	1.140	2371.906	0.04%	99.76%
86.0	10.419	1.140	2373.046	0.04%	99.81%
87.0	10.412	1.140	2374.186	0.04%	99.86%
88.0	10.397	1.140	2375.326	0.04%	99.90%
89.0	10.404	1.140	2376.466	0.04%	99.95%
90.0	10.404	1.141	2377.607	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2087.83	79.75%	87.81%
0-40	2321.43	88.67%	97.64%
0-60	2343.81	89.53%	98.58%
0-90	2376.47	90.78%	99.95%
0-120	2376.47	90.78%	99.95%
0-180	2377.61	90.82%	100.00%
60-90	32.65	1.25%	1.37%
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%
0-26.71	1902.09	72.66%	80.00%

ZONAL LUMEN SUMMARY

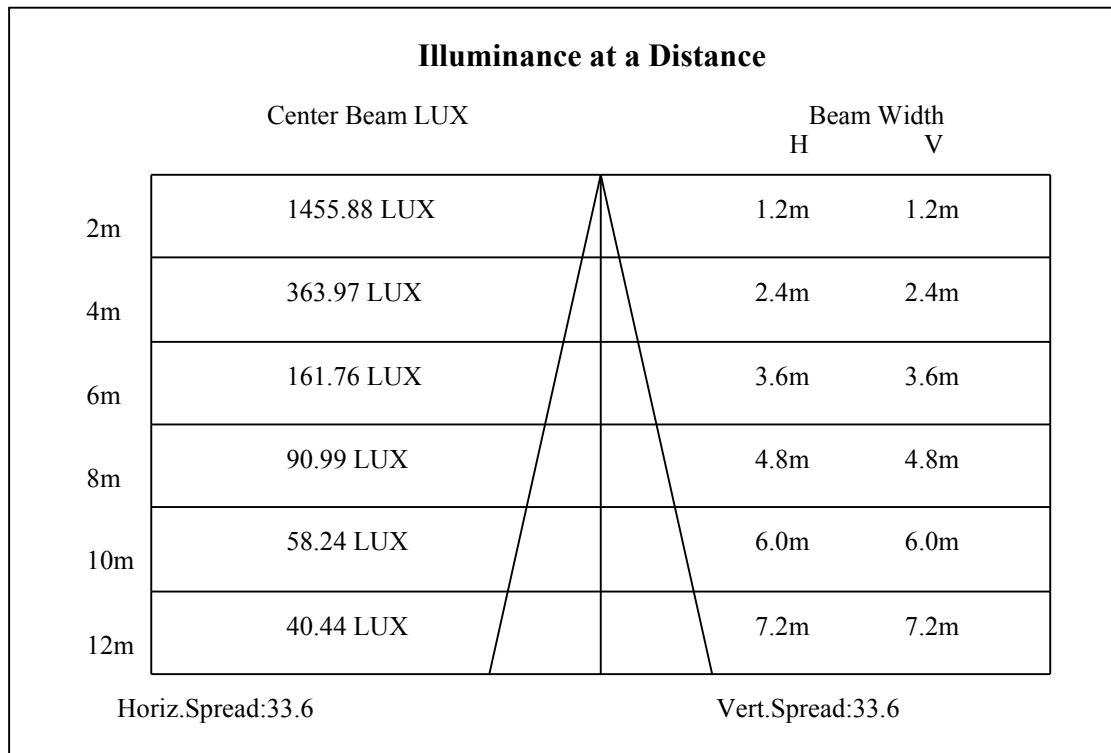
0-10	505.34
10-20	921.26
20-30	661.24
30-40	233.60
40-50	11.59
50-60	10.79
60-70	11.08
70-80	11.32
80-90	10.26
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

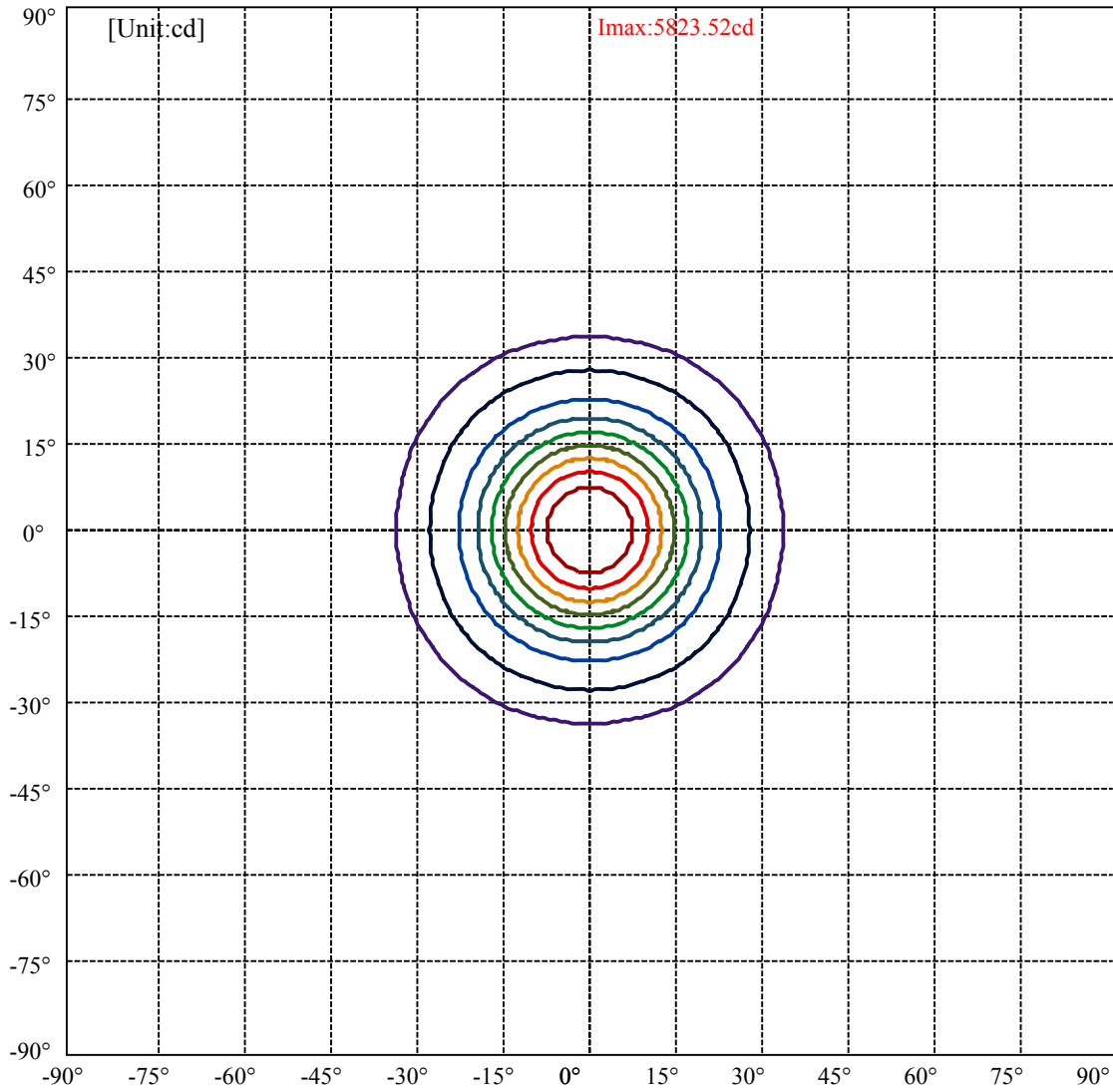


C0(Max): —————  
C0/C180: —————  
C90/C270: —————

Field angle(10%Imax):C0/180Left:33.2 Right:33.2  
:C90/270Left:33.2 Right:33.2

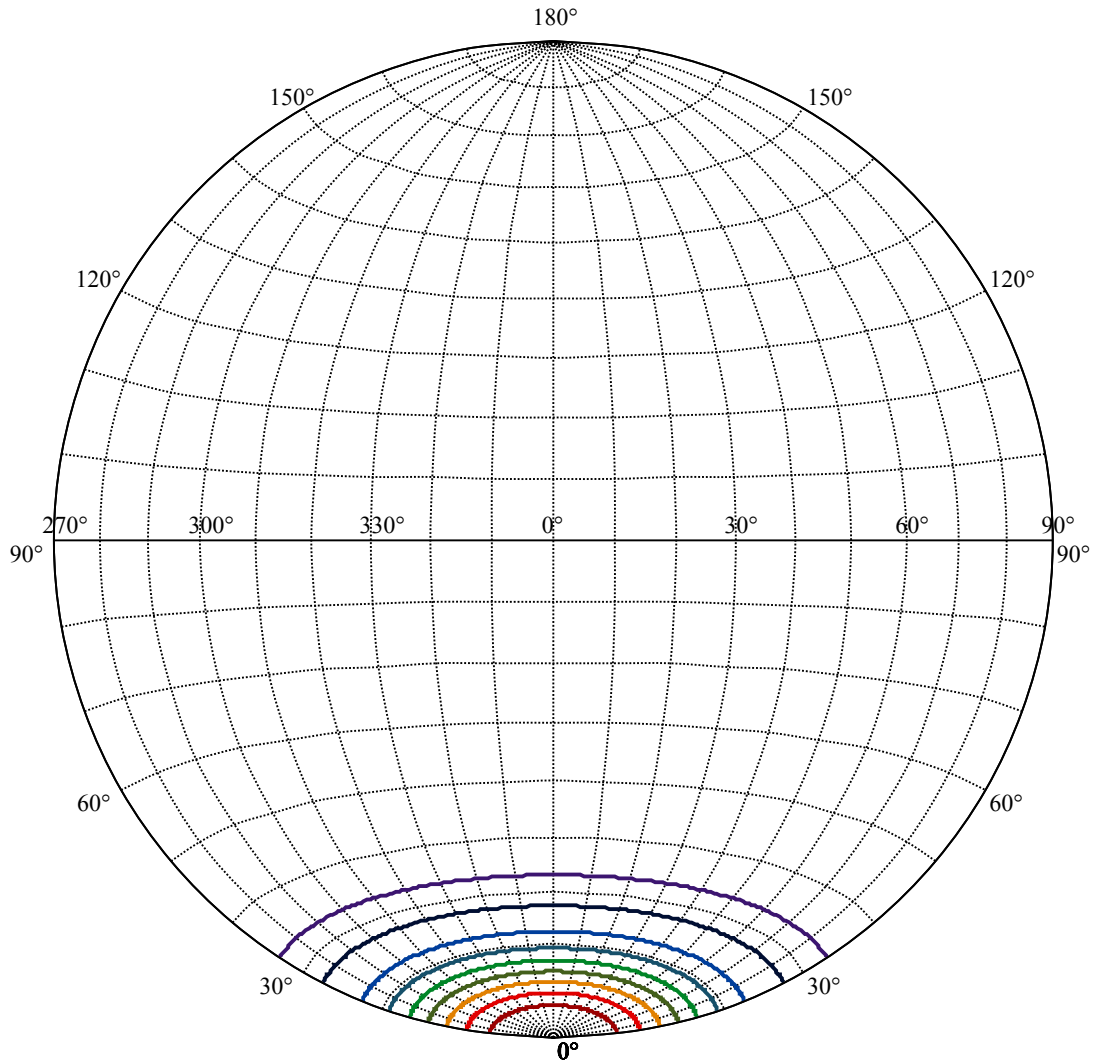
Beam Angle(50%Imax):C0/180Left:16.7 Right:16.7  
:C90/270Left:16.7 Right:16.7





(10%Imax) 582.352	—
(20%Imax) 1164.7	—
(30%Imax) 1747.06	—
(40%Imax) 2329.41	—
(50%Imax) 2911.76	—
(60%Imax) 3494.11	—
(70%Imax) 4076.46	—
(80%Imax) 4658.81	—
(90%Imax) 5241.17	—





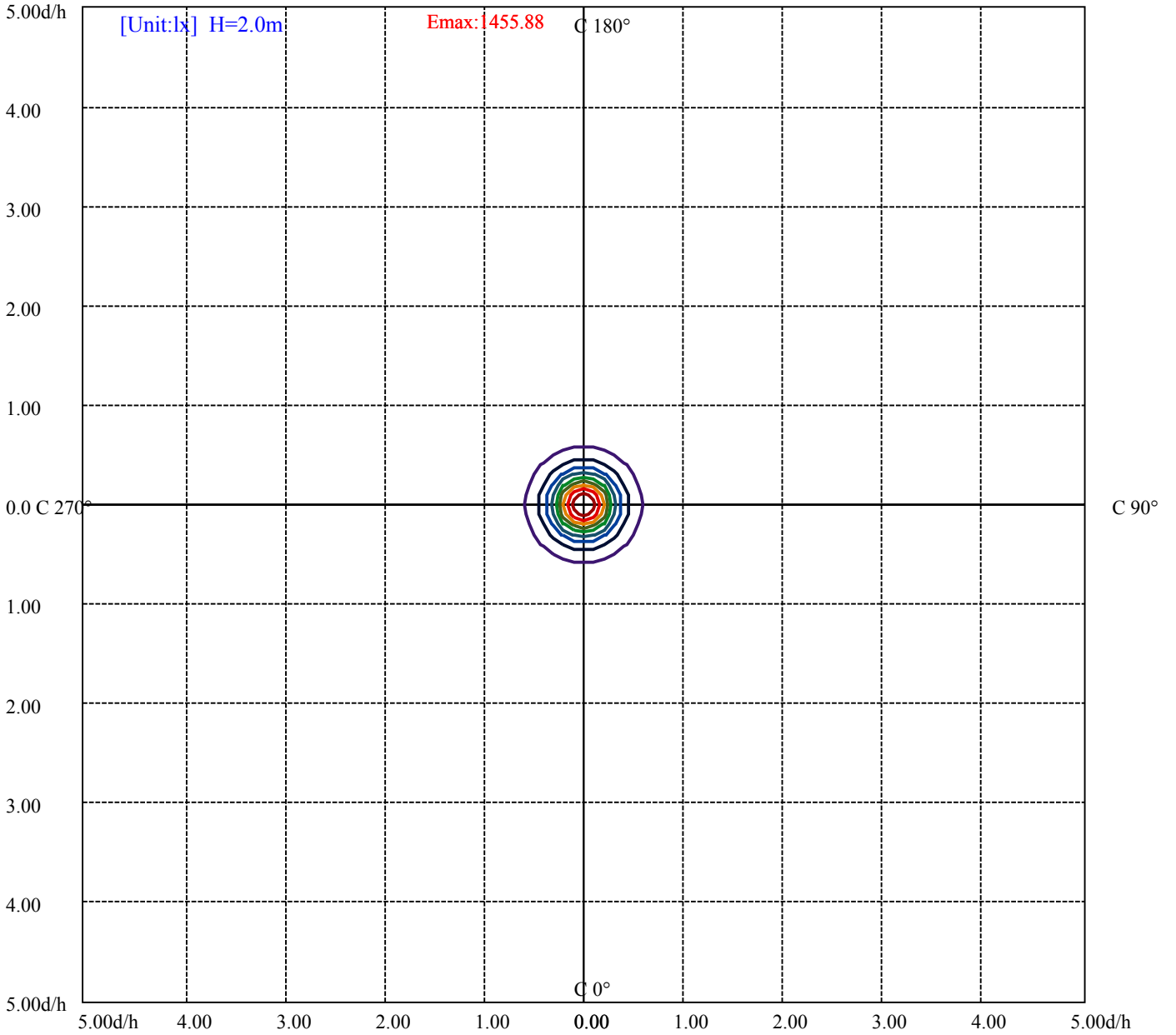
House

[Unit:cd]

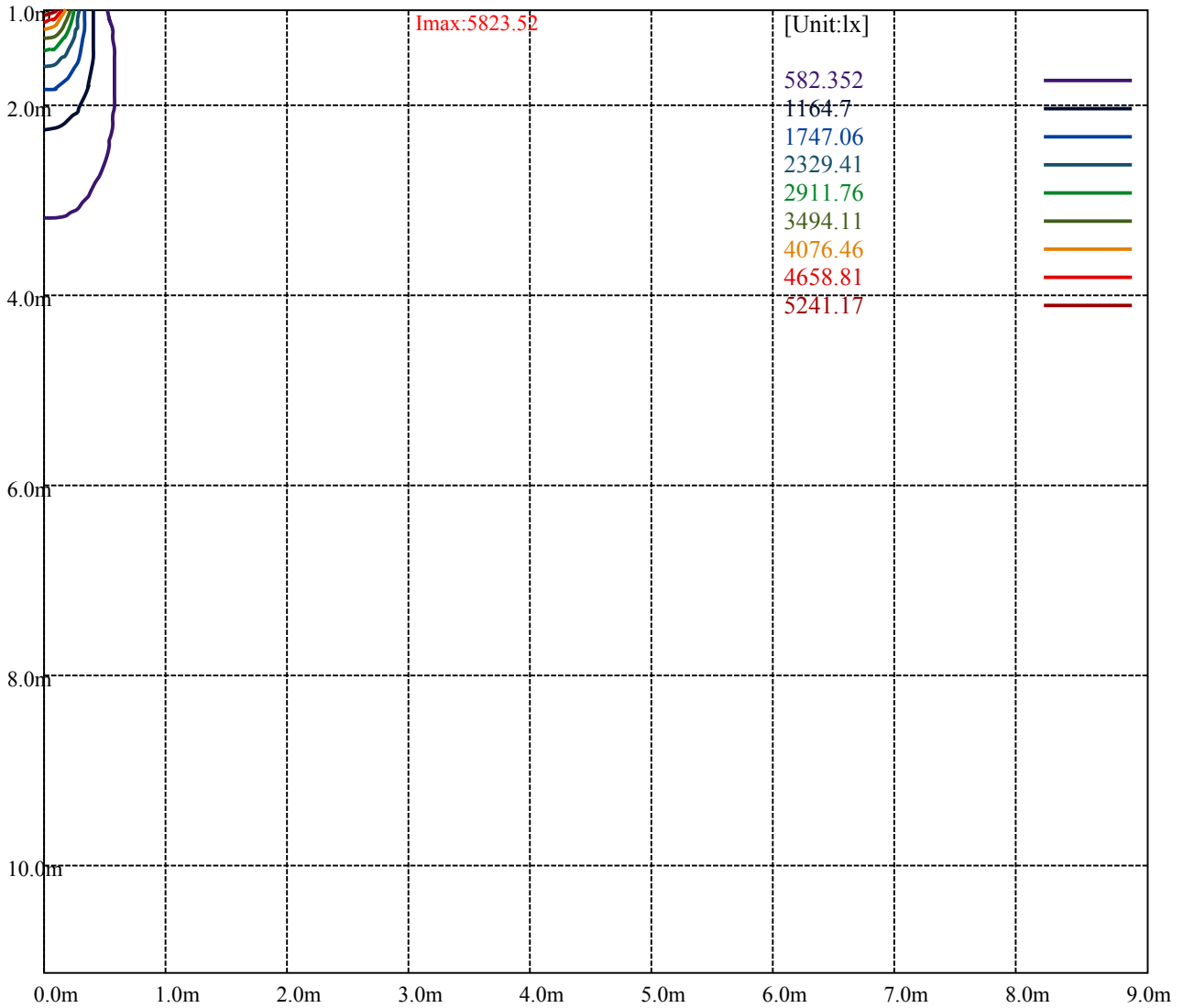
Road

Imax:5823.52

(10%Imax)	582.352	—
(20%Imax)	1164.7	—
(30%Imax)	1747.06	—
(40%Imax)	2329.41	—
(50%Imax)	2911.76	—
(60%Imax)	3494.11	—
(70%Imax)	4076.46	—
(80%Imax)	4658.81	—
(90%Imax)	5241.17	—



(10%Emax)	145.588	—
(20%Emax)	291.175	—
(30%Emax)	436.765	—
(40%Emax)	582.3525	—
(50%Emax)	727.94	—
(60%Emax)	873.5275	—
(70%Emax)	1019.115	—
(80%Emax)	1164.703	—
(90%Emax)	1310.292	—



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

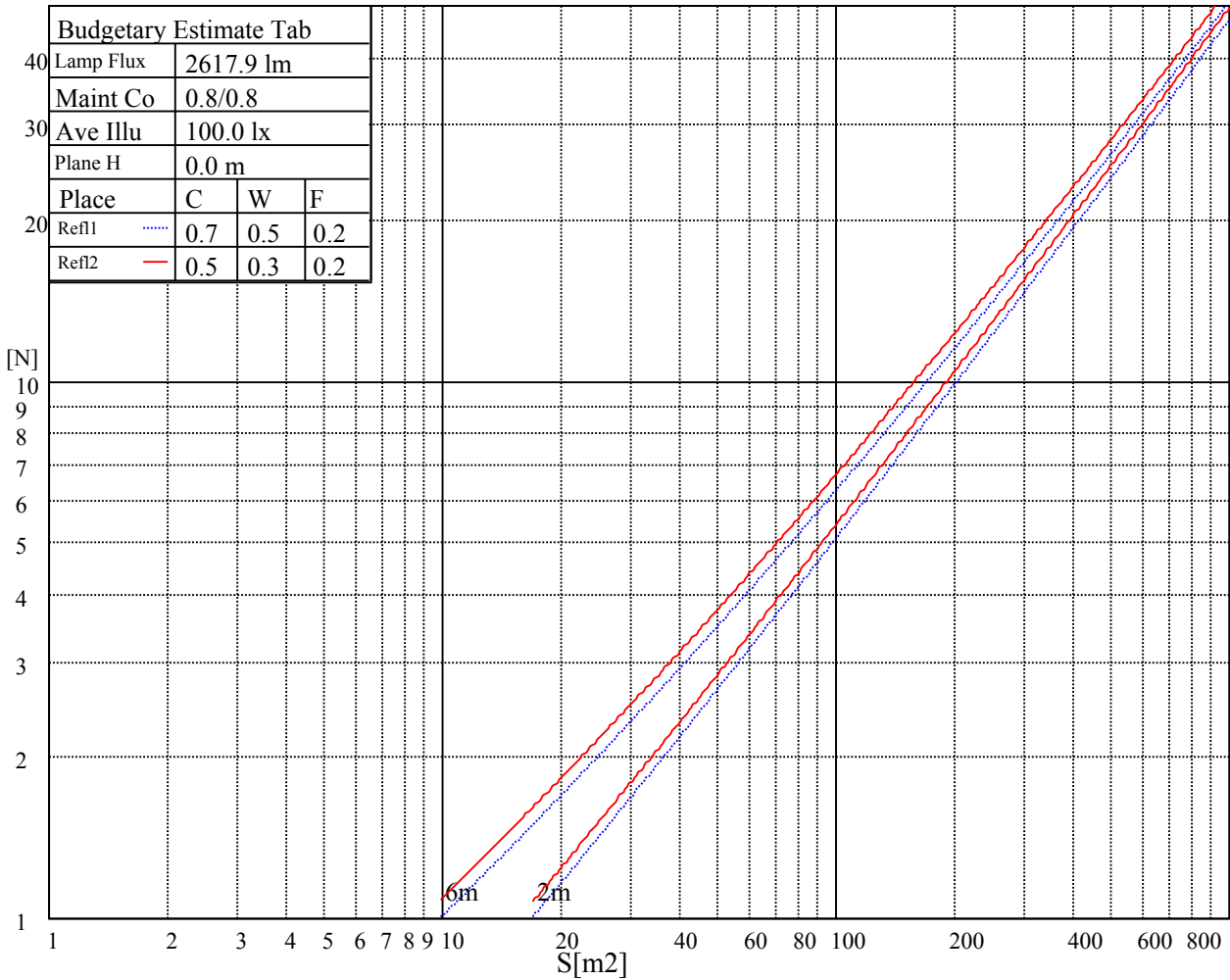
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

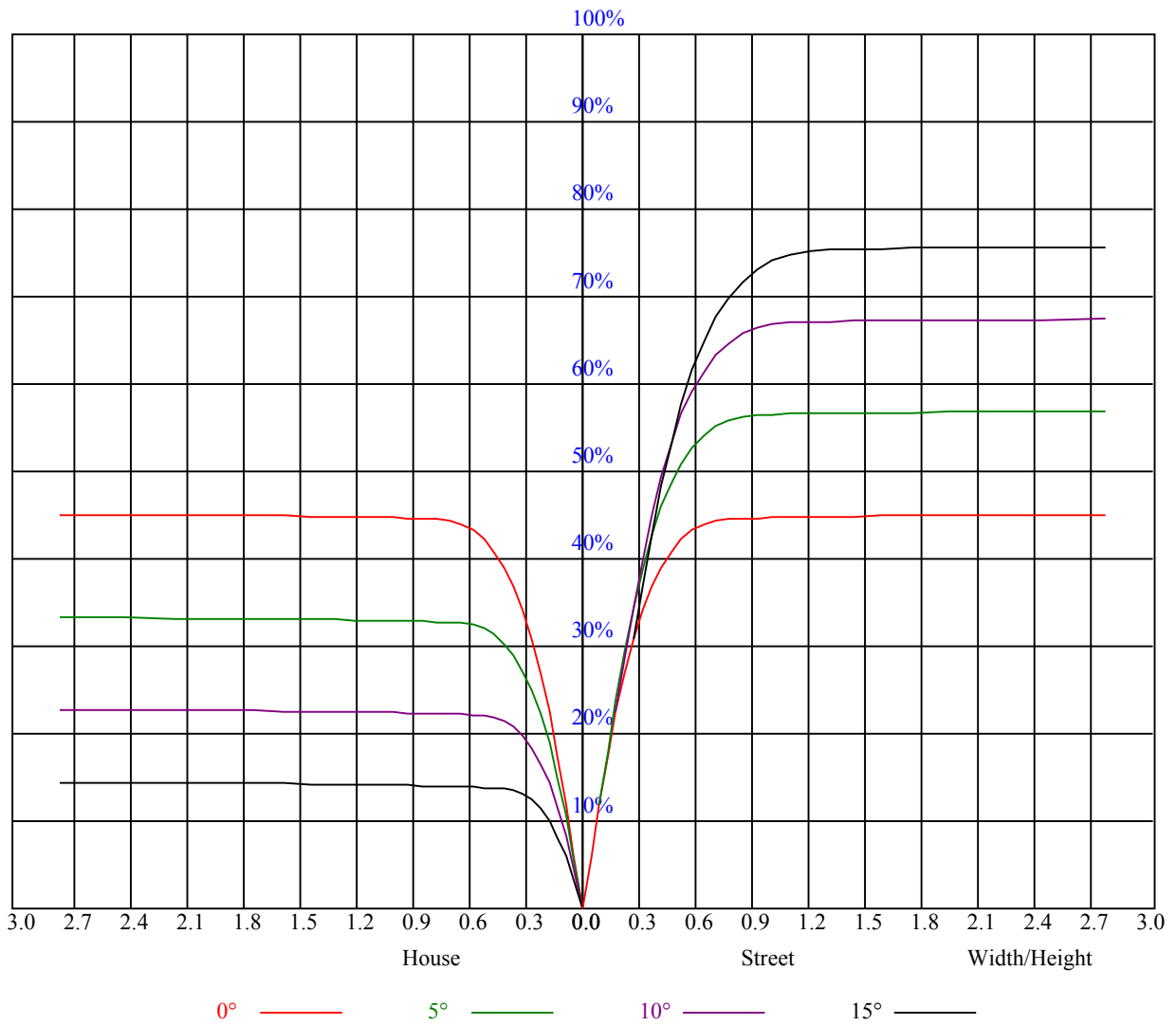


Illumination assessment according UGR										
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30
Rf of Wall	50	30	50	30	30	50	30	50	30	30
Rf of Floor	20	20	20	20	20	20	20	20	20	20
Room dimensions	Viewed crosswise					Viewed endwise				
X	Y									
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	3H	非数字	非数字	非数字	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	1.08	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	1.01	0.99	0.97	0.99	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	0.96	0.92	0.90	0.94	0.91	0.89	0.91	0.89	0.87	0.88	0.87	0.85	0.86	0.84	0.83	0.82
3	0.90	0.87	0.83	0.89	0.86	0.83	0.87	0.84	0.81	0.85	0.82	0.80	0.83	0.81	0.79	0.78
4	0.86	0.82	0.78	0.85	0.81	0.78	0.83	0.80	0.77	0.81	0.78	0.76	0.80	0.77	0.75	0.74
5	0.82	0.77	0.74	0.81	0.77	0.74	0.79	0.76	0.73	0.78	0.75	0.72	0.77	0.74	0.72	0.71
6	0.78	0.73	0.70	0.77	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.69	0.74	0.71	0.69	0.67
7	0.75	0.70	0.67	0.74	0.70	0.67	0.73	0.69	0.66	0.72	0.69	0.66	0.71	0.68	0.66	0.65
8	0.71	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.63	0.69	0.66	0.63	0.68	0.65	0.63	0.62
9	0.69	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.61	0.67	0.63	0.61	0.66	0.63	0.60	0.59
10	0.66	0.61	0.59	0.66	0.61	0.58	0.65	0.61	0.58	0.64	0.61	0.58	0.64	0.60	0.58	0.57





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	5814.55	5812.76	5813.96	5825.91	5815.15	5751.81	5648.44	5524.16	5352.07
45.0	5828.90	5835.47	5810.97	5738.07	5638.88	5509.81	5344.90	5109.47	4905.12
90.0	5828.30	5822.32	5776.91	5697.44	5566.58	5417.80	5209.26	4981.60	4763.50
135.0	5822.32	5822.32	5794.24	5734.49	5641.87	5518.18	5325.18	5139.94	4942.76
180.0	5814.55	5814.55	5787.67	5722.54	5626.93	5486.51	5307.25	5117.84	4887.79
225.0	5828.90	5827.70	5830.09	5840.85	5832.48	5785.87	5662.18	5560.60	5411.82
270.0	5828.30	5824.12	5820.53	5827.10	5831.29	5801.41	5702.82	5594.66	5457.23
315.0	5822.32	5818.74	5819.93	5825.91	5799.02	5720.15	5603.63	5468.59	5282.75
360.0	5814.55	5812.76	5813.96	5825.91	5815.15	5751.81	5648.44	5524.16	5352.07
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5154.88	4964.27	4730.04	4513.73	4245.44	3955.04	3690.34	3431.01	3109.54
45.0	4686.42	4391.84	4139.68	3877.96	3553.50	3299.56	3055.17	2789.86	2528.74
90.0	4532.26	4228.12	3974.17	3723.20	3417.27	3177.06	2943.43	2688.88	2440.91
135.0	4678.65	4446.21	4201.82	3917.40	3630.59	3347.36	3104.76	2871.72	2619.57
180.0	4673.87	4424.10	4156.41	3910.23	3628.20	3347.95	3106.55	2867.54	2577.14
225.0	5233.16	4980.40	4762.31	4535.25	4235.29	3981.34	3730.37	3450.13	3172.88
270.0	5260.65	5043.74	4835.80	4583.64	4321.93	4075.15	3788.33	3537.37	3253.55
315.0	5099.31	4877.63	4636.23	4410.36	4169.56	3846.89	3589.95	3338.39	3026.48
360.0	5154.88	4964.27	4730.04	4513.73	4245.44	3955.04	3690.34	3431.01	3109.54
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2865.15	2634.51	2369.20	2152.90	1970.05	1805.73	1664.12	1552.38	1432.87
45.0	2311.24	2081.19	1892.37	1744.19	1604.96	1504.58	1389.85	1284.09	1190.28
90.0	2217.43	2004.11	1828.44	1696.98	1569.11	1467.53	1360.57	1188.54	1152.16
135.0	2380.56	2163.05	1962.29	1792.59	1665.91	1536.25	1418.53	1322.33	1216.57
180.0	2364.42	2149.91	1946.75	1785.42	1661.13	1536.84	1420.92	1322.93	1177.25
225.0	2937.45	2686.49	2469.59	2234.16	2025.03	1865.49	1714.91	1586.44	1480.68
270.0	2981.07	2750.43	2502.45	2271.81	2080.60	1918.67	1750.16	1630.06	1520.71
315.0	2786.28	2559.81	2329.17	2099.72	1930.62	1771.08	1633.05	1523.10	1408.97
360.0	2865.15	2634.51	2369.20	2152.90	1970.05	1805.73	1664.12	1552.38	1432.87
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1332.49	1222.54	1114.39	1024.16	934.54	859.84	769.62	645.33	471.45
45.0	1091.69	976.96	901.07	836.54	702.69	570.64	429.62	313.70	129.72
90.0	1055.06	943.14	868.69	790.89	645.21	508.68	364.97	197.90	94.53
135.0	1110.21	1005.04	930.95	849.69	752.29	611.87	477.43	337.60	304.74
180.0	1102.08	995.90	902.15	835.47	749.48	599.08	463.62	327.86	172.03
225.0	1383.88	1182.03	1157.89	1063.42	963.93	881.00	803.08	674.85	520.63
270.0	1407.78	1302.02	1207.61	1102.44	1003.85	924.97	842.52	737.95	592.15
315.0	1313.97	1180.54	1099.57	1012.69	935.43	852.79	758.74	632.01	457.95
360.0	1332.49	1222.54	1114.39	1024.16	934.54	859.84	769.62	645.33	471.45
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	331.63	314.30	90.05	30.77	25.34	21.33	17.81	16.01	15.24
45.0	52.64	27.07	22.95	19.12	16.49	15.00	14.46	13.98	13.68
90.0	39.80	25.28	21.93	18.40	15.83	14.94	14.52	13.98	13.68
135.0	80.91	33.88	25.28	20.79	17.99	16.13	15.12	14.70	14.34
180.0	77.08	32.03	23.96	19.90	17.39	15.42	14.82	14.40	13.98
225.0	371.78	213.92	104.63	38.42	25.75	21.99	18.82	16.25	15.18
270.0	429.03	317.89	149.62	48.46	28.20	24.08	20.20	17.33	15.77
315.0	314.84	184.40	74.69	30.35	25.57	21.45	18.52	16.37	15.48
360.0	331.63	314.30	90.05	30.77	25.34	21.33	17.81	16.01	15.24

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	14.70	14.22	13.86	13.56	13.27	12.97	12.73	12.55	12.43
45.0	13.38	13.09	12.85	12.67	12.49	12.31	12.19	12.01	11.89
90.0	13.44	13.15	12.97	12.79	12.55	12.37	12.25	12.07	11.95
135.0	13.98	13.68	13.38	13.15	12.97	12.79	12.55	12.43	12.25
180.0	13.62	13.32	13.03	12.85	12.67	12.43	12.25	12.19	12.01
225.0	14.64	14.16	13.80	13.50	13.15	12.91	12.73	12.49	12.37
270.0	15.00	14.58	14.16	13.86	13.50	13.21	12.97	12.79	12.55
315.0	15.00	14.58	14.16	13.80	13.50	13.27	13.03	12.85	12.61
360.0	14.70	14.22	13.86	13.56	13.27	12.97	12.73	12.55	12.43
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	12.25	12.07	12.01	11.83	11.77	11.65	11.59	11.47	11.41
45.0	11.77	11.71	11.59	11.53	11.47	11.41	11.29	11.23	11.17
90.0	11.83	11.77	11.71	11.59	11.53	11.41	11.35	11.23	11.17
135.0	12.13	12.01	11.95	11.77	11.71	11.65	11.53	11.47	11.35
180.0	11.89	11.77	11.71	11.59	11.53	11.47	11.35	11.29	11.23
225.0	12.19	12.01	11.89	11.77	11.65	11.59	11.53	11.41	11.35
270.0	12.37	12.25	12.07	11.95	11.89	11.77	11.71	11.53	11.47
315.0	12.43	12.31	12.19	12.07	11.89	11.83	11.71	11.65	11.53
360.0	12.25	12.07	12.01	11.83	11.77	11.65	11.59	11.47	11.41
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	11.29	11.23	11.17	11.17	11.11	11.05	10.93	10.93	10.82
45.0	11.11	11.05	10.99	10.93	10.88	10.88	10.82	10.82	10.76
90.0	11.17	11.05	10.99	10.99	10.93	10.88	10.82	10.82	10.76
135.0	11.29	11.23	11.17	11.11	11.05	10.99	10.93	10.88	10.82
180.0	11.17	11.11	11.05	10.99	10.93	10.88	10.88	10.82	10.82
225.0	11.29	11.23	11.17	11.11	11.05	10.99	10.93	10.93	10.88
270.0	11.41	11.35	11.29	11.17	11.17	11.05	11.05	10.93	10.93
315.0	11.47	11.35	11.29	11.23	11.17	11.11	11.05	10.99	10.93
360.0	11.29	11.23	11.17	11.17	11.11	11.05	10.93	10.93	10.82
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	10.82	10.82	10.76	10.70	10.70	10.70	10.64	10.58	10.58
45.0	10.70	10.70	10.70	10.64	10.58	10.52	10.52	10.52	10.46
90.0	10.76	10.70	10.64	10.64	10.58	10.58	10.58	10.52	10.46
135.0	10.82	10.82	10.76	10.70	10.64	10.64	10.58	10.58	10.52
180.0	10.70	10.70	10.70	10.64	10.64	10.58	10.58	10.52	10.52
225.0	10.82	10.76	10.76	10.70	10.64	10.64	10.64	10.58	10.52
270.0	10.88	10.82	10.82	10.76	10.76	10.70	10.64	10.64	10.58
315.0	10.93	10.88	10.82	10.76	10.70	10.70	10.70	10.64	10.58
360.0	10.82	10.82	10.76	10.70	10.70	10.70	10.64	10.58	10.58
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	10.58	10.58	10.52	10.46	10.46	10.46	10.40	10.46	10.40
45.0	10.46	10.46	10.46	10.40	10.40	10.40	10.40	10.34	10.40
90.0	10.46	10.46	10.46	10.46	10.40	10.40	10.40	10.40	10.40
135.0	10.52	10.46	10.46	10.46	10.46	10.40	10.40	10.40	10.40
180.0	10.46	10.46	10.40	10.40	10.40	10.40	10.40	10.40	10.40
225.0	10.52	10.52	10.46	10.46	10.46	10.40	10.46	10.40	10.40
270.0	10.58	10.58	10.52	10.52	10.46	10.46	10.46	10.40	10.40
315.0	10.58	10.52	10.52	10.52	10.46	10.46	10.40	10.40	10.46
360.0	10.58	10.58	10.52	10.46	10.46	10.46	10.40	10.46	10.40

Intensity data(cd)

C/γ(°)	90.0
0.0	10.40
45.0	10.40
90.0	10.40
135.0	10.40
180.0	10.40
225.0	10.40
270.0	10.46
315.0	10.40
360.0	10.40