



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: 1-1384-L

Luminaire: 92.70.427.00

Report No: 20231120-B002

Ballast type: AC

Test No: 20231120-C002

Voltage(V): 36.510

LampCAT: P2121-018-1203-P3090-1

Current(A): 0.399

Lamp flux(lm): 2085.4

Power (W): 14.567

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

### Photometric Results

Lumens(lm): 1852.60, Efficiency(%): 88.84% , Luminous Efficacy(lm/W): 127.18

Central intensity(cd): 2993.384, Maximum intensity(cd): 2993.384

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

Beam Angle(50%Imax): [C0/180]Total=48.6

[C90/270]Total=48.6

Field angle(10%Imax): [C0/180]Total=67.6

[C90/270]Total=67.6

Beam angle of C0 plane : 48.61

Average BeamAngle(IEC 61341):48.61

Maximum s/h(1/2): C0\_180=0.78 C90\_270=0.78

Maximum s/h(1/4): C0\_180=0.74 C90\_270=0.74

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 88.84%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 97.858%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2993.384	0.000	0	0.00%	0.00%
1.0	2992.554	2.864	2.864	0.14%	0.15%
2.0	2988.679	8.585	11.449	0.41%	0.62%
3.0	2978.854	14.272	25.721	0.68%	1.39%
4.0	2965.569	19.898	45.619	0.95%	2.46%
5.0	2949.032	25.444	71.064	1.22%	3.84%
6.0	2929.797	30.895	101.958	1.48%	5.50%
7.0	2905.303	36.218	138.177	1.74%	7.46%
8.0	2870.569	41.337	179.514	1.98%	9.69%
9.0	2830.576	46.205	225.718	2.22%	12.18%
10.0	2789.752	50.862	276.58	2.44%	14.93%
11.0	2738.273	55.236	331.816	2.65%	17.91%
12.0	2677.938	59.207	391.023	2.84%	21.11%
13.0	2614.766	62.811	453.834	3.01%	24.50%
14.0	2545.366	66.049	519.884	3.17%	28.06%
15.0	2465.380	68.790	588.673	3.30%	31.78%
16.0	2379.513	70.991	659.665	3.40%	35.61%
17.0	2282.367	72.598	732.263	3.48%	39.53%
18.0	2189.166	73.726	805.989	3.54%	43.51%
19.0	2093.404	74.508	880.496	3.57%	47.53%
20.0	1988.025	74.701	955.198	3.58%	51.56%
21.0	1884.098	74.353	1029.551	3.57%	55.57%
22.0	1774.706	73.525	1103.076	3.53%	59.54%
23.0	1665.728	72.190	1175.265	3.46%	63.44%
24.0	1547.202	70.246	1245.512	3.37%	67.23%
25.0	1381.564	66.594	1312.105	3.19%	70.82%
26.0	1239.312	61.866	1373.971	2.97%	74.16%
27.0	1146.698	58.374	1432.346	2.80%	77.32%
28.0	1013.607	54.694	1487.04	2.62%	80.27%
29.0	862.893	49.095	1536.135	2.35%	82.92%
30.0	724.800	42.867	1579.002	2.06%	85.23%
31.0	591.778	36.638	1615.64	1.76%	87.21%
32.0	476.594	30.608	1646.248	1.47%	88.86%
33.0	365.777	24.817	1671.065	1.19%	90.20%
34.0	282.504	19.619	1690.683	0.94%	91.26%
35.0	232.208	15.985	1706.669	0.77%	92.12%
36.0	196.208	13.641	1720.309	0.65%	92.86%
37.0	134.855	10.797	1731.107	0.52%	93.44%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	110.520	8.190	1739.297	0.39%	93.88%
39.0	95.008	7.015	1746.312	0.34%	94.26%
40.0	82.857	6.203	1752.516	0.30%	94.60%
41.0	73.427	5.565	1758.081	0.27%	94.90%
42.0	64.985	5.029	1763.11	0.24%	95.17%
43.0	58.045	4.557	1767.667	0.22%	95.42%
44.0	52.012	4.154	1771.821	0.20%	95.64%
45.0	47.189	3.812	1775.633	0.18%	95.85%
46.0	42.816	3.520	1779.153	0.17%	96.04%
47.0	39.045	3.256	1782.409	0.16%	96.21%
48.0	36.118	3.038	1785.447	0.15%	96.38%
49.0	33.676	2.866	1788.314	0.14%	96.53%
50.0	31.448	2.715	1791.029	0.13%	96.68%
51.0	29.649	2.585	1793.614	0.12%	96.82%
52.0	27.947	2.471	1796.085	0.12%	96.95%
53.0	26.445	2.366	1798.451	0.11%	97.08%
54.0	25.200	2.276	1800.727	0.11%	97.20%
55.0	23.975	2.195	1802.923	0.11%	97.32%
56.0	22.979	2.122	1805.044	0.10%	97.43%
57.0	21.989	2.056	1807.1	0.10%	97.54%
58.0	21.131	1.994	1809.094	0.10%	97.65%
59.0	20.329	1.938	1811.033	0.09%	97.76%
60.0	19.581	1.885	1812.918	0.09%	97.86%
61.0	18.903	1.837	1814.755	0.09%	97.96%
62.0	18.225	1.789	1816.544	0.09%	98.05%
63.0	17.658	1.745	1818.289	0.08%	98.15%
64.0	17.070	1.704	1819.993	0.08%	98.24%
65.0	16.544	1.664	1821.656	0.08%	98.33%
66.0	15.997	1.624	1823.28	0.08%	98.42%
67.0	15.554	1.587	1824.867	0.08%	98.50%
68.0	15.084	1.552	1826.419	0.07%	98.59%
69.0	14.655	1.517	1827.936	0.07%	98.67%
70.0	14.240	1.484	1829.42	0.07%	98.75%
71.0	13.797	1.449	1830.869	0.07%	98.83%
72.0	13.437	1.416	1832.285	0.07%	98.90%
73.0	13.050	1.385	1833.67	0.07%	98.98%
74.0	12.648	1.351	1835.021	0.06%	99.05%
75.0	12.275	1.317	1836.338	0.06%	99.12%

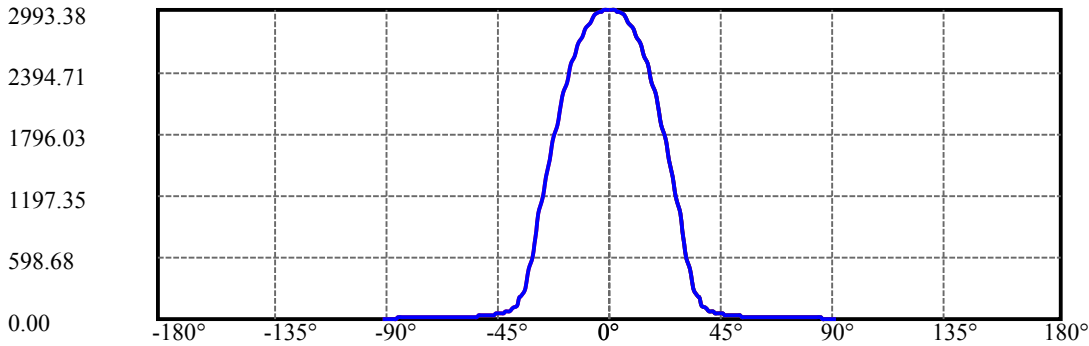
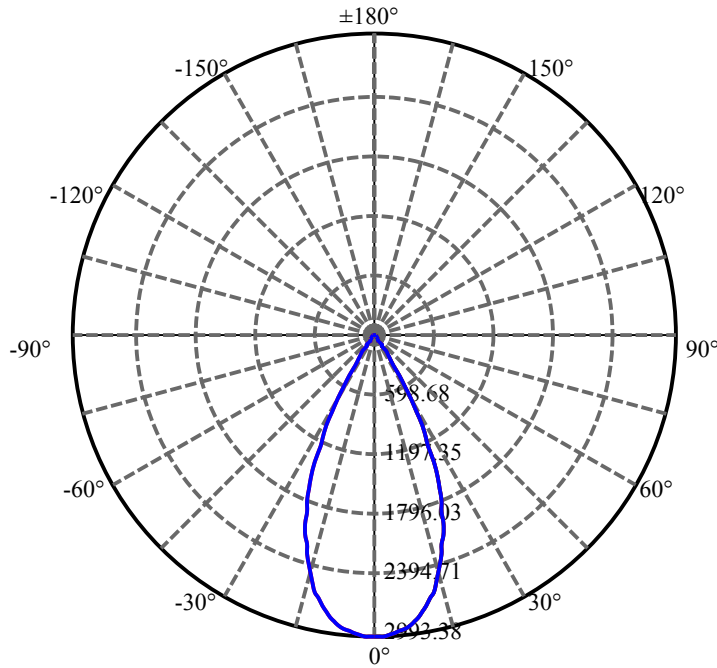
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	11.922	1.284	1837.622	0.06%	99.19%
77.0	11.811	1.265	1838.888	0.06%	99.26%
78.0	11.534	1.250	1840.137	0.06%	99.33%
79.0	10.918	1.206	1841.344	0.06%	99.39%
80.0	10.593	1.160	1842.503	0.06%	99.45%
81.0	10.323	1.131	1843.634	0.05%	99.52%
82.0	10.047	1.105	1844.739	0.05%	99.58%
83.0	9.811	1.080	1845.819	0.05%	99.63%
84.0	9.555	1.055	1846.874	0.05%	99.69%
85.0	9.272	1.028	1847.901	0.05%	99.75%
86.0	8.947	0.996	1848.897	0.05%	99.80%
87.0	8.635	0.962	1849.859	0.05%	99.85%
88.0	8.476	0.937	1850.797	0.04%	99.90%
89.0	8.165	0.912	1851.709	0.04%	99.95%
90.0	8.144	0.894	1852.603	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1579.00	75.72%	85.23%
0-40	1752.52	84.04%	94.60%
0-60	1812.92	86.94%	97.86%
0-90	1851.71	88.80%	99.95%
0-120	1851.71	88.80%	99.95%
0-180	1852.60	88.84%	100.00%
60-90	38.79	1.86%	2.09%
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%
0-27.91	1482.08	71.07%	80.00%

ZONAL LUMEN SUMMARY

0-10	276.58
10-20	678.62
20-30	623.80
30-40	173.51
40-50	38.51
50-60	21.89
60-70	16.50
70-80	13.08
80-90	9.21
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: —————

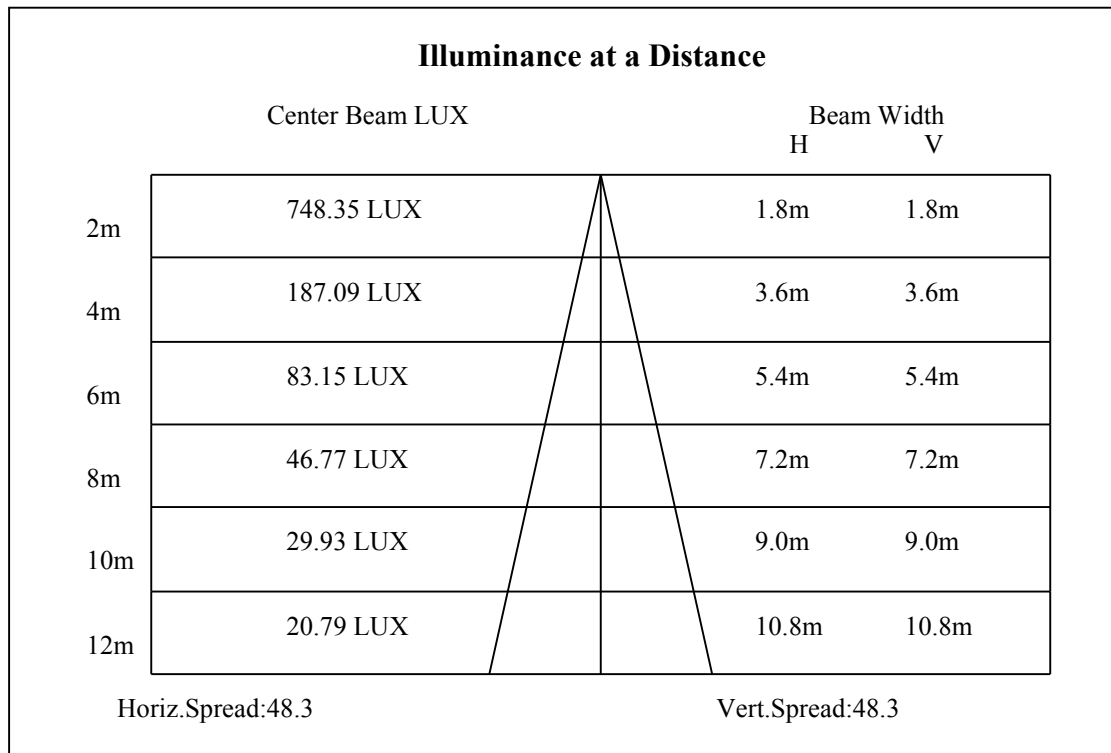
C90/C270: —————

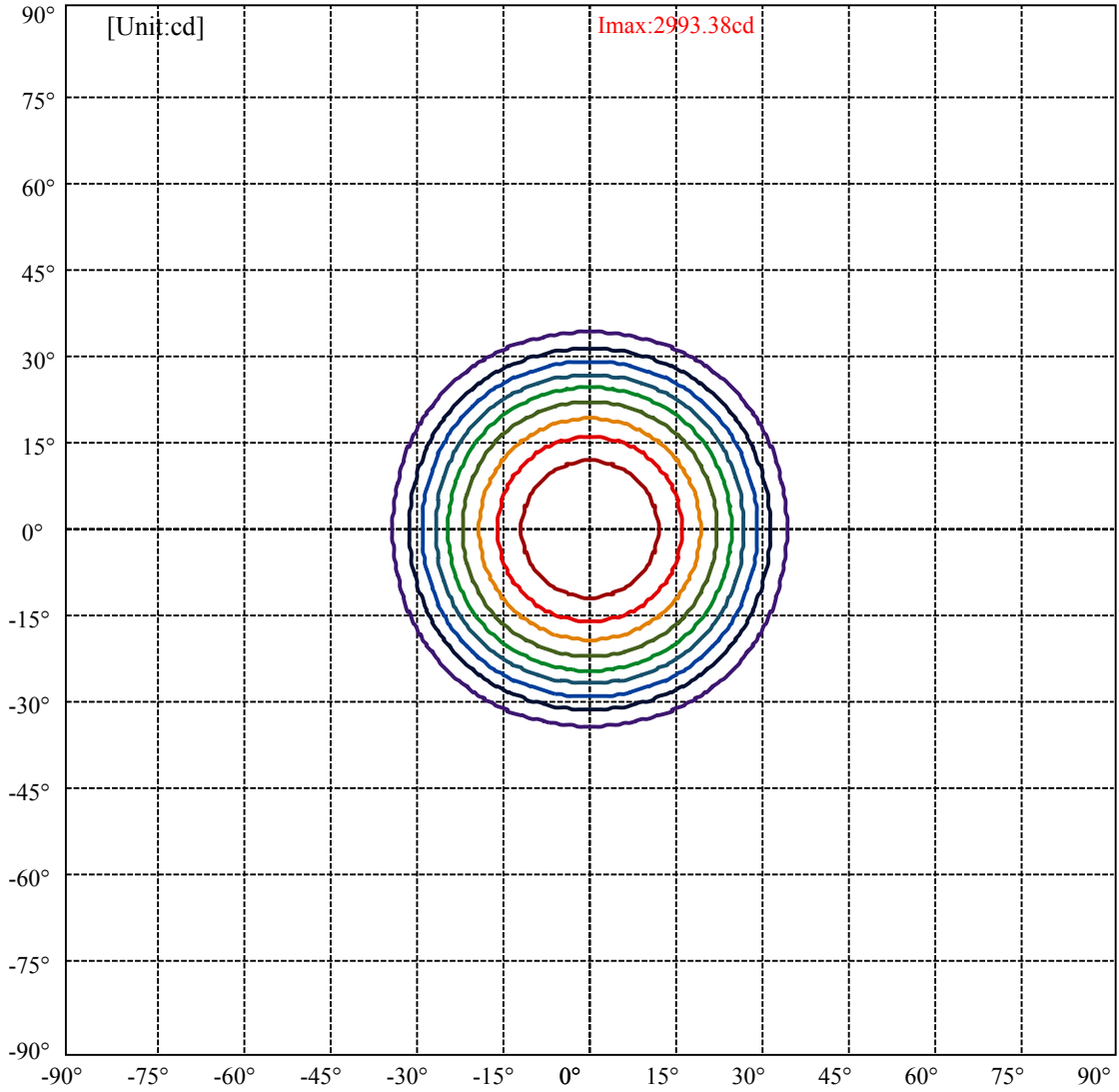
Field angle(10%Imax):C0/180Left:33.8 Right:33.8

:C90/270Left:33.8 Right:33.8

Beam Angle(50%Imax):C0/180Left:24.3 Right:24.3

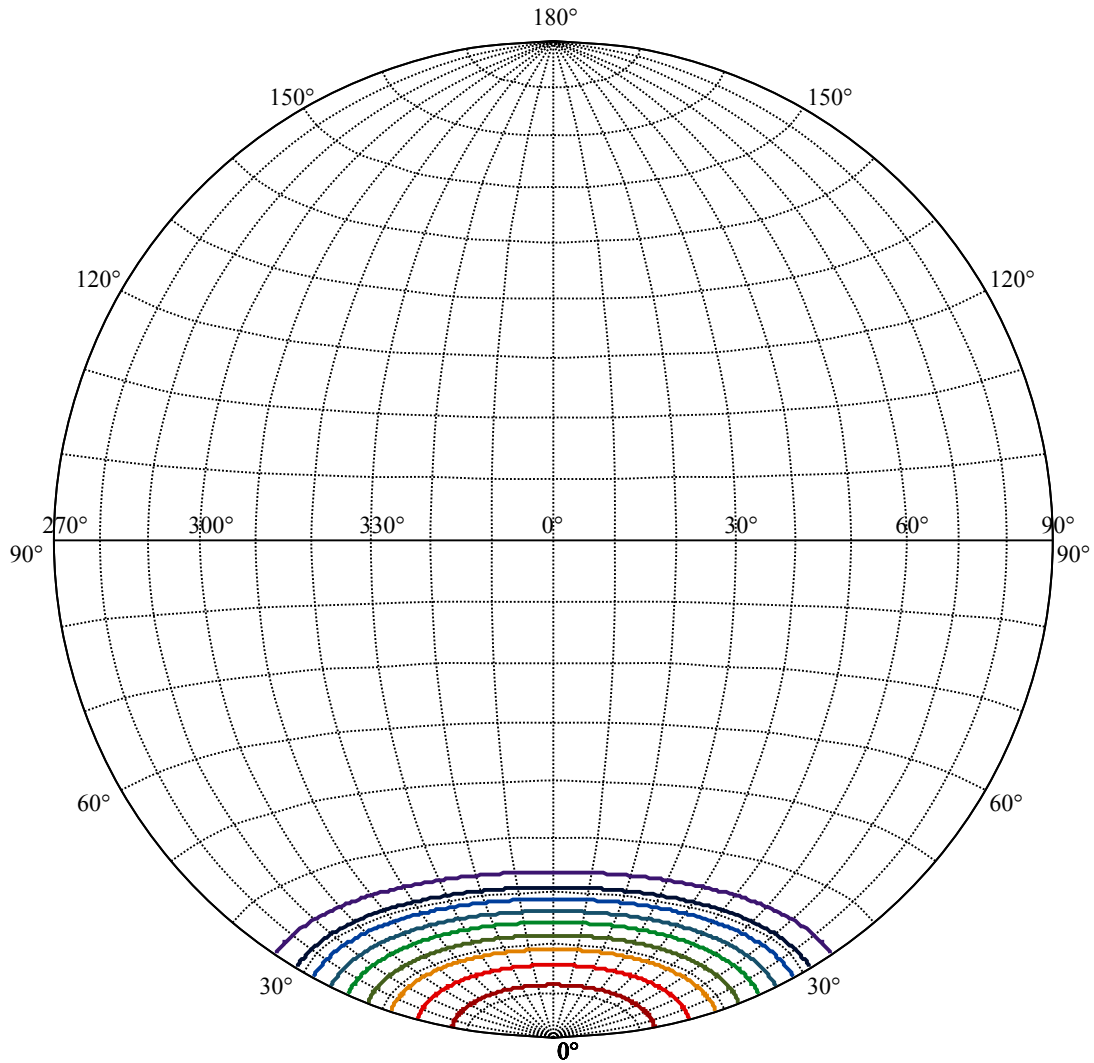
:C90/270Left:24.3 Right:24.3





(10%Imax) 299.338	—
(20%Imax) 598.677	—
(30%Imax) 898.015	—
(40%Imax) 1197.35	—
(50%Imax) 1496.69	—
(60%Imax) 1796.03	—
(70%Imax) 2095.37	—
(80%Imax) 2394.71	—
(90%Imax) 2694.05	—





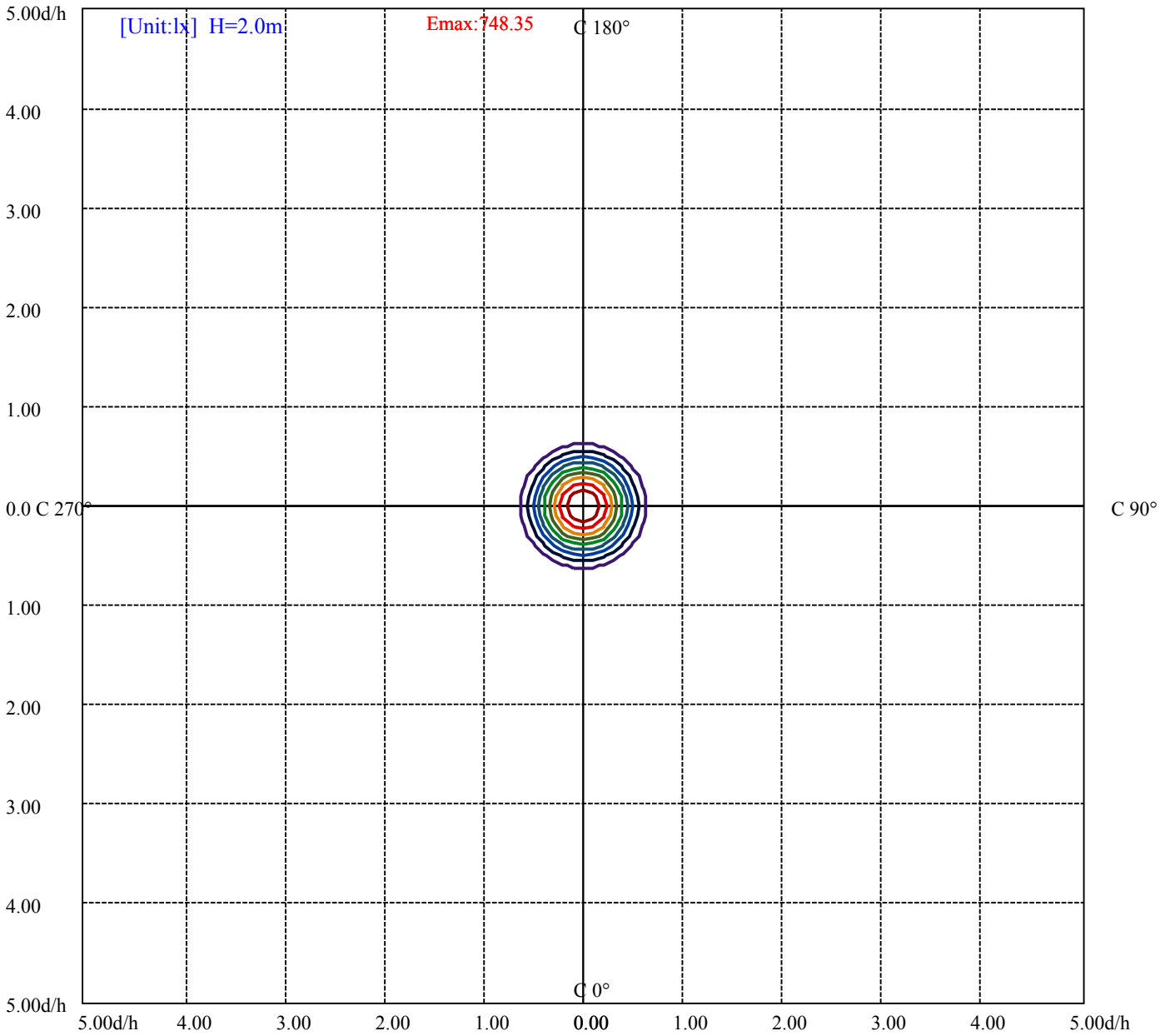
House

[Unit:cd]

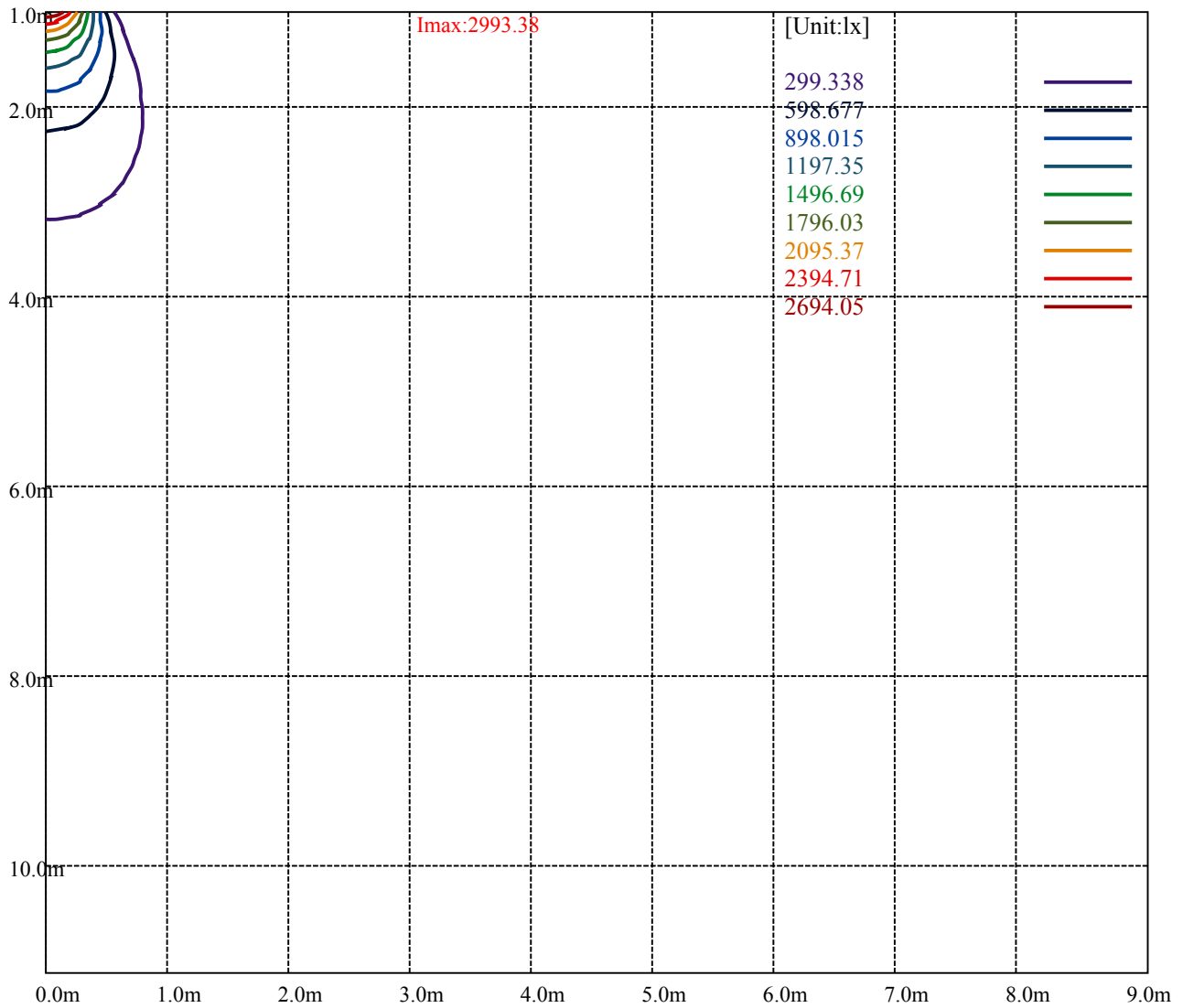
Road

Imax:2993.38

(10%Imax) 299.338	—
(20%Imax) 598.677	—
(30%Imax) 898.015	—
(40%Imax) 1197.35	—
(50%Imax) 1496.69	—
(60%Imax) 1796.03	—
(70%Imax) 2095.37	—
(80%Imax) 2394.71	—
(90%Imax) 2694.05	—



(10%Emax) 74.8345	—
(20%Emax) 149.6693	—
(30%Emax) 224.5038	—
(40%Emax) 299.3375	—
(50%Emax) 374.1725	—
(60%Emax) 449.0075	—
(70%Emax) 523.8425	—
(80%Emax) 598.6775	—
(90%Emax) 673.5125	—



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

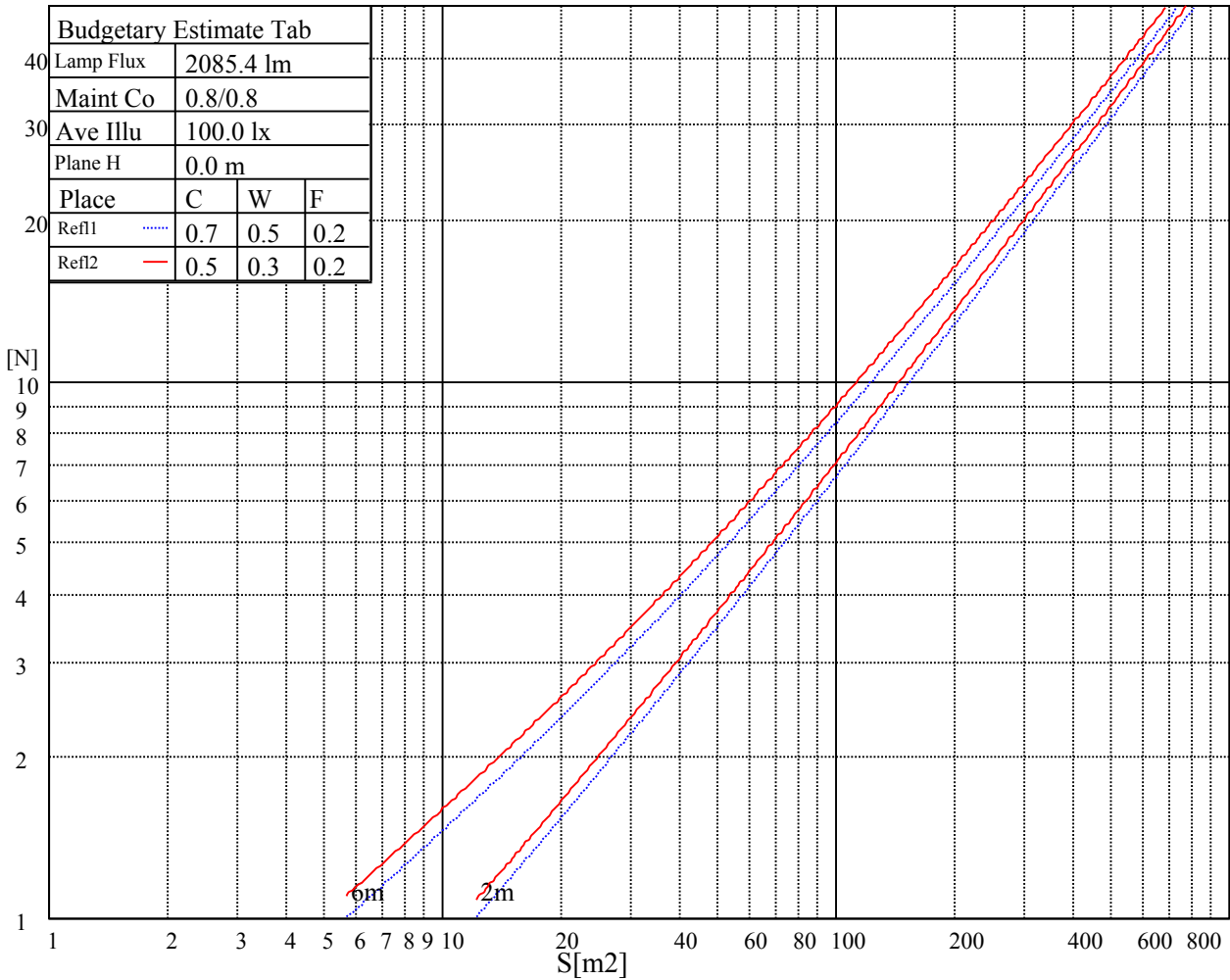
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

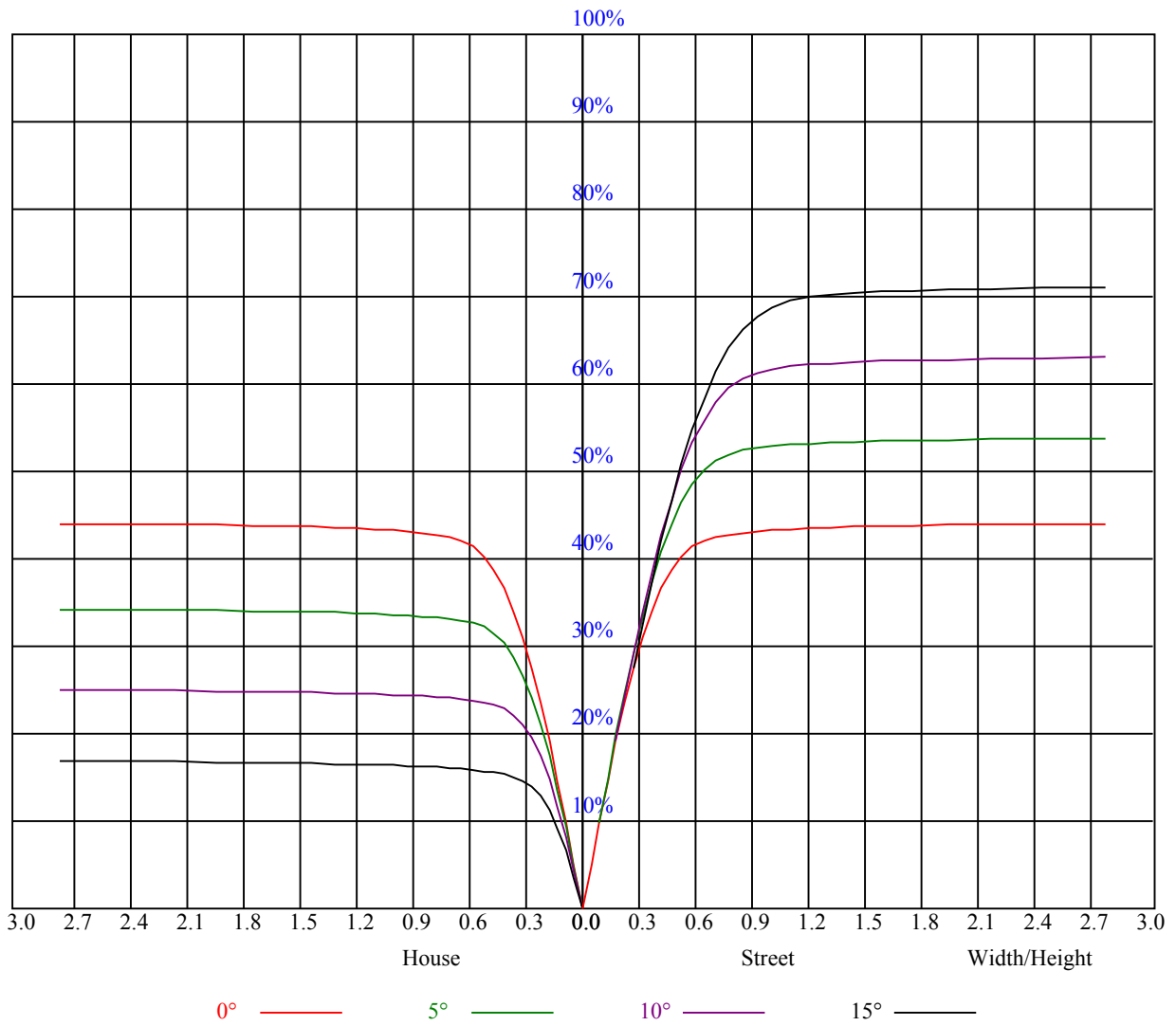


Illumination assessment according UGR										
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30
Rf of Wall	50	30	50	30	30	50	30	50	30	30
Rf of Floor	20	20	20	20	20	20	20	20	20	20
Room dimensions	Viewed crosswise					Viewed endwise				
X	Y									
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	3H	非数字	非数字	非数字	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
	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	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
	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
8H	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	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	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	1.06	1.06	1.06	1.03	1.03	1.03	0.99	0.99	0.99	0.95	0.95	0.95	0.91	0.91	0.91	0.89
1	0.99	0.96	0.95	0.97	0.95	0.93	0.93	0.92	0.90	0.90	0.89	0.87	0.87	0.86	0.85	0.83
2	0.92	0.89	0.86	0.91	0.88	0.85	0.88	0.85	0.83	0.85	0.83	0.82	0.83	0.81	0.80	0.78
3	0.87	0.83	0.79	0.86	0.82	0.79	0.83	0.80	0.78	0.81	0.79	0.76	0.79	0.77	0.75	0.74
4	0.82	0.77	0.74	0.81	0.77	0.74	0.79	0.76	0.73	0.77	0.74	0.72	0.76	0.73	0.71	0.70
5	0.78	0.73	0.69	0.77	0.72	0.69	0.75	0.71	0.68	0.74	0.70	0.68	0.72	0.70	0.67	0.66
6	0.74	0.69	0.65	0.73	0.68	0.65	0.72	0.68	0.65	0.70	0.67	0.64	0.69	0.66	0.64	0.63
7	0.70	0.65	0.62	0.69	0.65	0.62	0.68	0.64	0.61	0.67	0.64	0.61	0.66	0.63	0.61	0.59
8	0.67	0.62	0.59	0.66	0.62	0.58	0.65	0.61	0.58	0.64	0.61	0.58	0.63	0.60	0.58	0.57
9	0.64	0.59	0.56	0.63	0.59	0.56	0.62	0.58	0.55	0.62	0.58	0.55	0.61	0.57	0.55	0.54
10	0.61	0.56	0.53	0.60	0.56	0.53	0.60	0.56	0.53	0.59	0.55	0.53	0.58	0.55	0.52	0.51





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	2974.15	2964.74	2956.44	2954.78	2943.70	2922.12	2892.78	2857.35	2812.52
45.0	2989.09	2979.68	2985.77	2978.58	2968.61	2954.78	2943.70	2918.24	2885.58
90.0	3004.59	3014.56	3002.38	2992.97	2982.45	2963.63	2934.85	2901.64	2854.59
135.0	3005.70	3015.11	3018.43	3005.15	2992.42	2970.27	2944.26	2923.78	2896.10
180.0	2974.15	2983.56	2983.56	2980.79	2971.93	2963.63	2956.99	2948.13	2922.67
225.0	2989.09	2981.90	2979.68	2963.63	2945.92	2934.29	2923.78	2895.55	2866.21
270.0	3004.59	3000.72	2994.08	2979.13	2958.10	2945.37	2930.97	2907.72	2872.85
315.0	3005.70	3000.17	2989.09	2975.81	2961.42	2938.17	2911.05	2890.01	2854.03
360.0	2974.15	2964.74	2956.44	2954.78	2943.70	2922.12	2892.78	2857.35	2812.52
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2768.79	2728.38	2671.92	2588.89	2518.04	2448.84	2340.90	2246.80	2133.88
45.0	2846.28	2806.43	2744.43	2683.54	2625.97	2535.75	2462.13	2385.74	2271.71
90.0	2816.39	2768.79	2699.04	2630.96	2561.76	2463.79	2380.76	2292.19	2203.63
135.0	2856.80	2811.96	2771.00	2718.97	2664.72	2602.17	2525.23	2416.74	2330.94
180.0	2889.46	2849.60	2816.39	2777.64	2722.29	2670.26	2612.14	2541.28	2439.43
225.0	2828.02	2793.70	2737.24	2681.33	2622.10	2568.41	2484.82	2405.67	2296.07
270.0	2835.21	2802.55	2761.59	2696.27	2634.83	2576.71	2514.71	2421.17	2338.14
315.0	2803.66	2756.61	2704.58	2645.90	2568.41	2497.00	2402.35	2326.51	2245.14
360.0	2768.79	2728.38	2671.92	2588.89	2518.04	2448.84	2340.90	2246.80	2133.88
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2033.69	1945.13	1837.74	1707.66	1599.72	1490.67	1378.86	1076.57	1076.57
45.0	2190.90	2106.20	1993.84	1895.31	1794.01	1691.05	1560.42	1443.62	1324.61
90.0	2091.81	1993.84	1899.74	1798.99	1673.89	1562.08	1423.14	1102.75	1102.75
135.0	2245.70	2136.10	2045.32	1925.20	1826.67	1722.05	1610.24	1474.07	1356.16
180.0	2352.53	2243.48	2147.17	2053.07	1931.84	1828.33	1717.07	1605.81	1464.66
225.0	2204.73	2107.87	1986.09	1885.34	1784.60	1652.86	1541.04	1425.36	1103.64
270.0	2258.98	2177.61	2057.49	1966.71	1870.95	1767.44	1637.36	1528.87	1385.50
315.0	2134.99	2037.01	1936.82	1840.51	1715.96	1611.34	1509.49	1395.46	1100.60
360.0	2033.69	1945.13	1837.74	1707.66	1599.72	1490.67	1378.86	1076.57	1076.57
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	942.51	818.57	661.86	550.16	422.46	329.80	251.80	177.91	141.76
45.0	1190.66	1020.72	882.34	716.28	589.52	474.93	374.74	289.50	289.50
90.0	997.97	866.23	737.48	615.20	474.66	375.57	291.10	223.79	163.79
135.0	1223.87	1087.70	916.10	786.57	660.37	546.89	417.92	326.59	286.73
180.0	1349.52	1216.12	1082.72	910.01	778.27	647.08	501.50	397.44	305.55
225.0	1103.64	1003.95	865.01	726.02	564.44	447.53	325.20	248.93	190.14
270.0	1264.83	1128.11	954.85	817.57	684.72	559.07	423.46	332.12	292.27
315.0	1100.60	967.47	802.79	676.59	559.79	431.87	340.48	263.76	187.93
360.0	942.51	818.57	661.86	550.16	422.46	329.80	251.80	177.91	141.76
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	119.29	99.14	86.68	76.55	68.08	61.39	54.08	49.04	44.62
45.0	158.53	124.77	107.39	93.38	79.99	70.74	63.27	57.07	50.32
90.0	134.29	114.69	99.58	85.13	75.78	65.98	59.28	53.58	47.49
135.0	286.73	141.21	114.80	99.19	87.40	77.38	67.31	60.56	54.69
180.0	285.62	202.54	133.79	110.43	95.71	84.30	72.57	64.71	58.01
225.0	143.14	121.06	105.01	92.05	79.16	70.30	62.83	56.35	49.60
270.0	292.27	148.74	127.48	110.71	94.88	84.36	75.11	65.59	59.12
315.0	149.79	126.70	109.43	92.61	81.87	72.96	65.43	57.46	52.25
360.0	119.29	99.14	86.68	76.55	68.08	61.39	54.08	49.04	44.62

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	39.97	36.87	33.82	31.77	30.06	28.06	26.68	25.46	24.30
45.0	45.78	41.96	37.70	34.98	32.71	30.33	28.67	27.18	25.57
90.0	43.45	39.97	37.03	33.99	31.99	30.22	28.62	26.90	25.63
135.0	49.71	44.45	40.80	37.81	34.76	32.66	30.78	28.73	27.34
180.0	52.31	47.38	42.12	38.64	35.87	32.99	31.05	28.84	27.34
225.0	45.06	41.13	37.31	34.71	32.55	30.17	28.51	27.07	25.46
270.0	53.53	47.77	43.78	40.46	37.14	34.82	32.77	30.89	28.78
315.0	47.71	43.01	39.80	36.59	34.32	32.33	30.11	28.51	27.12
360.0	39.97	36.87	33.82	31.77	30.06	28.06	26.68	25.46	24.30
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	23.30	22.14	21.26	20.54	19.82	18.99	18.38	17.82	17.16
45.0	24.47	23.47	22.47	21.42	20.65	19.98	19.26	18.54	17.93
90.0	24.47	23.19	22.25	21.20	20.43	19.76	18.93	18.32	17.77
135.0	25.79	24.69	23.69	22.75	21.70	20.92	20.15	19.48	18.65
180.0	26.07	24.58	23.53	22.58	21.70	20.92	20.04	19.37	18.76
225.0	24.30	23.30	22.36	21.37	20.54	19.87	19.21	18.43	17.88
270.0	27.34	26.07	24.91	23.58	22.64	21.59	20.81	20.09	19.21
315.0	25.85	24.36	23.36	22.47	21.59	20.59	19.87	19.15	18.43
360.0	23.30	22.14	21.26	20.54	19.82	18.99	18.38	17.82	17.16
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	16.66	16.11	15.67	15.22	14.72	14.34	13.95	13.62	13.12
45.0	17.44	16.77	16.27	15.78	15.39	14.95	14.56	14.06	13.67
90.0	17.21	16.61	16.16	15.67	15.28	14.72	14.34	13.95	13.45
135.0	18.16	17.60	16.99	16.44	15.94	15.39	14.95	14.56	14.00
180.0	18.10	17.55	16.99	16.38	15.94	15.50	15.00	14.61	14.12
225.0	17.27	16.66	16.22	15.61	15.22	14.83	14.34	13.95	13.62
270.0	18.60	17.99	17.44	16.77	16.33	15.89	15.50	15.00	14.61
315.0	17.82	17.27	16.61	16.11	15.61	15.06	14.61	14.17	13.78
360.0	16.66	16.11	15.67	15.22	14.72	14.34	13.95	13.62	13.12
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	12.79	12.45	12.07	11.68	11.35	11.02	10.74	10.35	10.02
45.0	13.34	13.01	12.57	12.23	11.90	11.51	11.24	10.90	10.52
90.0	13.12	12.79	12.34	12.01	11.68	11.29	10.96	10.68	10.41
135.0	13.67	13.28	12.90	12.45	12.12	11.79	11.51	11.07	10.85
180.0	13.73	13.40	12.95	12.62	12.18	11.79	11.51	11.18	10.79
225.0	13.28	12.79	12.45	12.12	11.79	11.51	11.18	10.79	10.46
270.0	14.23	13.73	13.28	12.84	12.51	14.00	13.89	11.46	11.07
315.0	13.34	12.95	12.62	12.23	11.85	11.57	11.24	10.90	10.63
360.0	12.79	12.45	12.07	11.68	11.35	11.02	10.74	10.35	10.02
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	9.80	9.58	9.35	8.91	8.69	8.52	8.36	8.19	7.97
45.0	10.24	9.96	9.63	9.41	8.97	8.75	8.52	8.41	8.25
90.0	10.07	9.74	9.52	9.35	8.86	8.64	8.47	8.36	8.03
135.0	10.63	10.30	9.96	9.69	9.47	8.91	8.75	8.64	8.14
180.0	10.57	10.24	10.13	9.85	9.63	9.41	9.02	8.69	8.47
225.0	10.24	10.02	9.80	9.63	9.47	9.02	8.69	8.36	8.30
270.0	10.79	10.46	10.30	10.02	9.74	9.58	8.75	8.69	8.14
315.0	10.24	10.07	9.80	9.58	9.35	8.75	8.52	8.47	8.03
360.0	9.80	9.58	9.35	8.91	8.69	8.52	8.36	8.19	7.97

Intensity data(cd)

C/γ(°)	90.0
0.0	7.92
45.0	8.08
90.0	7.97
135.0	8.08
180.0	8.25
225.0	8.58
270.0	8.25
315.0	8.03
360.0	7.92