



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: 92.70.412.00

Report No: 20231031-B029

Ballast type: AC

Test No: 20231031-C029

Voltage(V): 34.650

LampCAT: Fortimo_SLM_C_1208

Current(A): 0.576

Lamp flux(lm): 3260.6

Power (W): 19.958

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2983.87, Efficiency(%): 91.51% , Luminous Efficacy(lm/W): 149.51

Central intensity(cd): 5209.881, Maximum intensity(cd): 5209.881

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=46.4

[C90/270]Total=46.4

Field angle(10%Imax): [C0/180]Total=68.2

[C90/270]Total=68.2

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

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(%): 91.51%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.035%

Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/10/31
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5209.881	0.000	0	0.00%	0.00%
1.0	5193.275	4.978	4.978	0.15%	0.17%
2.0	5153.766	14.851	19.829	0.46%	0.66%
3.0	5102.772	24.530	44.359	0.75%	1.49%
4.0	5030.950	33.921	78.28	1.04%	2.62%
5.0	4958.645	42.975	121.255	1.32%	4.06%
6.0	4869.595	51.650	172.905	1.58%	5.79%
7.0	4776.601	59.874	232.778	1.84%	7.80%
8.0	4693.570	67.776	300.555	2.08%	10.07%
9.0	4602.790	75.342	375.896	2.31%	12.60%
10.0	4509.796	82.466	458.362	2.53%	15.36%
11.0	4400.750	89.035	547.397	2.73%	18.35%
12.0	4304.365	95.159	642.556	2.92%	21.53%
13.0	4201.131	100.939	743.495	3.10%	24.92%
14.0	4081.913	106.022	849.517	3.25%	28.47%
15.0	3966.431	110.491	960.008	3.39%	32.17%
16.0	3826.110	114.183	1074.191	3.50%	36.00%
17.0	3685.166	116.971	1191.162	3.59%	39.92%
18.0	3530.245	118.966	1310.128	3.65%	43.91%
19.0	3374.286	120.125	1430.253	3.68%	47.93%
20.0	3194.179	120.221	1550.474	3.69%	51.96%
21.0	3019.539	119.316	1669.79	3.66%	55.96%
22.0	2847.804	117.907	1787.697	3.62%	59.91%
23.0	2640.989	115.170	1902.866	3.53%	63.77%
24.0	2441.025	111.111	2013.977	3.41%	67.50%
25.0	2226.945	106.139	2120.117	3.26%	71.05%
26.0	2022.067	100.298	2220.415	3.08%	74.41%
27.0	1782.801	93.087	2313.502	2.85%	77.53%
28.0	1526.763	83.791	2397.293	2.57%	80.34%
29.0	1295.392	73.836	2471.129	2.26%	82.82%
30.0	1142.567	65.824	2536.953	2.02%	85.02%
31.0	971.933	58.843	2595.797	1.80%	86.99%
32.0	800.143	50.768	2646.565	1.56%	88.70%
33.0	652.225	42.787	2689.352	1.31%	90.13%
34.0	528.634	35.736	2725.088	1.10%	91.33%
35.0	420.314	29.471	2754.559	0.90%	92.32%
36.0	340.425	24.222	2778.781	0.74%	93.13%
37.0	271.330	19.952	2798.733	0.61%	93.80%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	234.533	16.885	2815.618	0.52%	94.36%
39.0	186.756	14.380	2829.998	0.44%	94.84%
40.0	134.129	11.191	2841.189	0.34%	95.22%
41.0	110.264	8.703	2849.892	0.27%	95.51%
42.0	92.171	7.355	2857.247	0.23%	95.76%
43.0	80.450	6.394	2863.641	0.20%	95.97%
44.0	70.140	5.684	2869.325	0.17%	96.16%
45.0	63.484	5.135	2874.46	0.16%	96.33%
46.0	57.623	4.736	2879.196	0.15%	96.49%
47.0	52.828	4.393	2883.589	0.13%	96.64%
48.0	48.988	4.116	2887.705	0.13%	96.78%
49.0	45.494	3.880	2891.585	0.12%	96.91%
50.0	42.608	3.673	2895.258	0.11%	97.03%
51.0	40.124	3.500	2898.759	0.11%	97.15%
52.0	37.896	3.348	2902.107	0.10%	97.26%
53.0	35.966	3.213	2905.32	0.10%	97.37%
54.0	34.319	3.098	2908.417	0.10%	97.47%
55.0	32.894	3.000	2911.418	0.09%	97.57%
56.0	31.503	2.910	2914.328	0.09%	97.67%
57.0	30.341	2.828	2917.155	0.09%	97.76%
58.0	29.324	2.759	2919.914	0.08%	97.86%
59.0	28.348	2.696	2922.611	0.08%	97.95%
60.0	27.483	2.638	2925.248	0.08%	98.04%
61.0	26.646	2.583	2927.831	0.08%	98.12%
62.0	25.919	2.533	2930.364	0.08%	98.21%
63.0	25.200	2.486	2932.85	0.08%	98.29%
64.0	24.535	2.440	2935.291	0.07%	98.37%
65.0	23.920	2.398	2937.689	0.07%	98.45%
66.0	23.345	2.358	2940.047	0.07%	98.53%
67.0	22.757	2.318	2942.365	0.07%	98.61%
68.0	22.190	2.277	2944.642	0.07%	98.69%
69.0	21.657	2.237	2946.879	0.07%	98.76%
70.0	21.069	2.194	2949.073	0.07%	98.83%
71.0	20.550	2.151	2951.225	0.07%	98.91%
72.0	20.038	2.110	2953.335	0.06%	98.98%
73.0	19.533	2.069	2955.404	0.06%	99.05%
74.0	19.021	2.027	2957.431	0.06%	99.11%
75.0	18.474	1.981	2959.412	0.06%	99.18%

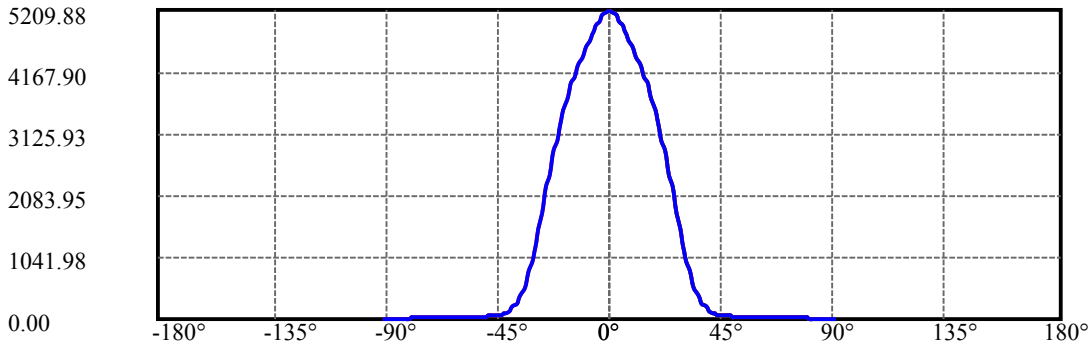
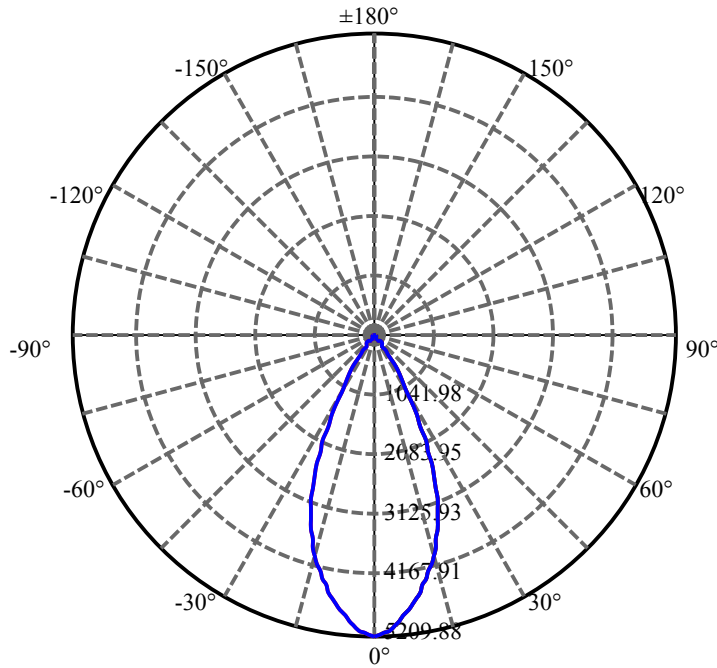
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	17.997	1.936	2961.348	0.06%	99.25%
77.0	17.443	1.890	2963.238	0.06%	99.31%
78.0	16.966	1.842	2965.08	0.06%	99.37%
79.0	16.461	1.796	2966.876	0.06%	99.43%
80.0	15.976	1.749	2968.624	0.05%	99.49%
81.0	15.527	1.704	2970.328	0.05%	99.55%
82.0	15.063	1.659	2971.987	0.05%	99.60%
83.0	14.627	1.614	2973.601	0.05%	99.66%
84.0	14.219	1.571	2975.172	0.05%	99.71%
85.0	13.838	1.531	2976.704	0.05%	99.76%
86.0	13.492	1.494	2978.198	0.05%	99.81%
87.0	13.195	1.461	2979.658	0.04%	99.86%
88.0	12.870	1.428	2981.086	0.04%	99.91%
89.0	12.655	1.399	2982.485	0.04%	99.95%
90.0	12.572	1.383	2983.868	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2536.95	77.81%	85.02%
0-40	2841.19	87.14%	95.22%
0-60	2925.25	89.72%	98.04%
0-90	2982.49	91.47%	99.95%
0-120	2982.49	91.47%	99.95%
0-180	2983.87	91.51%	100.00%
60-90	57.24	1.76%	1.92%
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%
0-27.88	2387.10	73.21%	80.00%

ZONAL LUMEN SUMMARY

0-10	458.36
10-20	1092.11
20-30	986.48
30-40	304.24
40-50	54.07
50-60	29.99
60-70	23.83
70-80	19.55
80-90	13.86
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



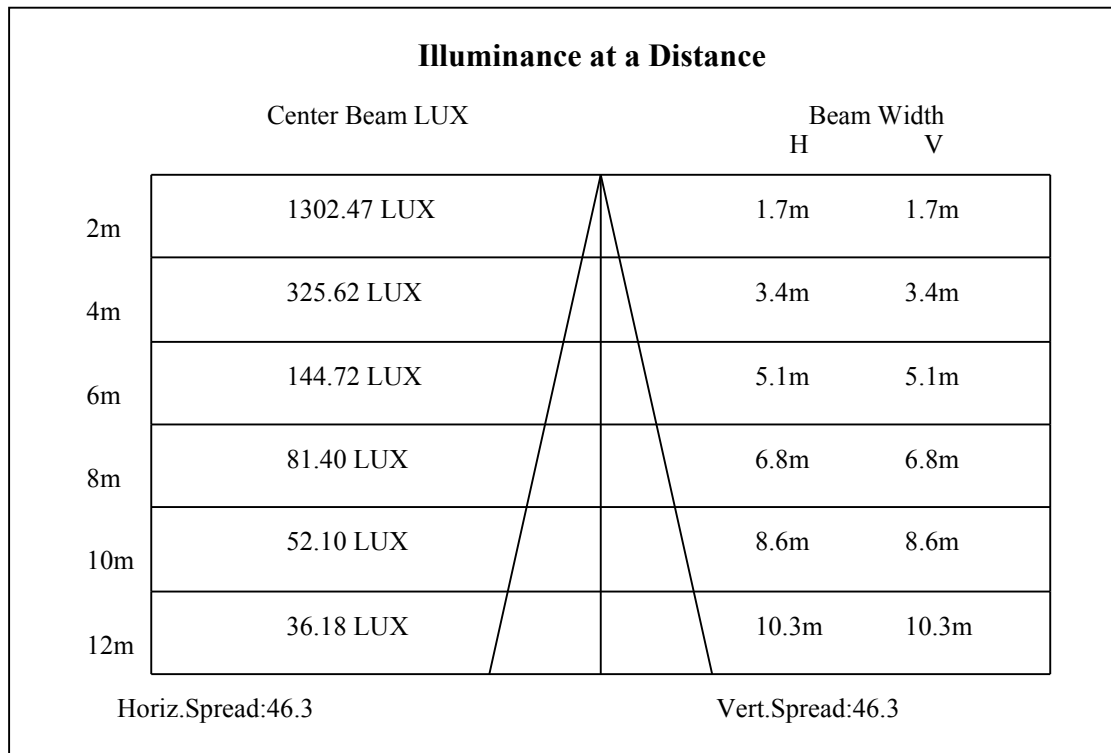
C0(Max): —————

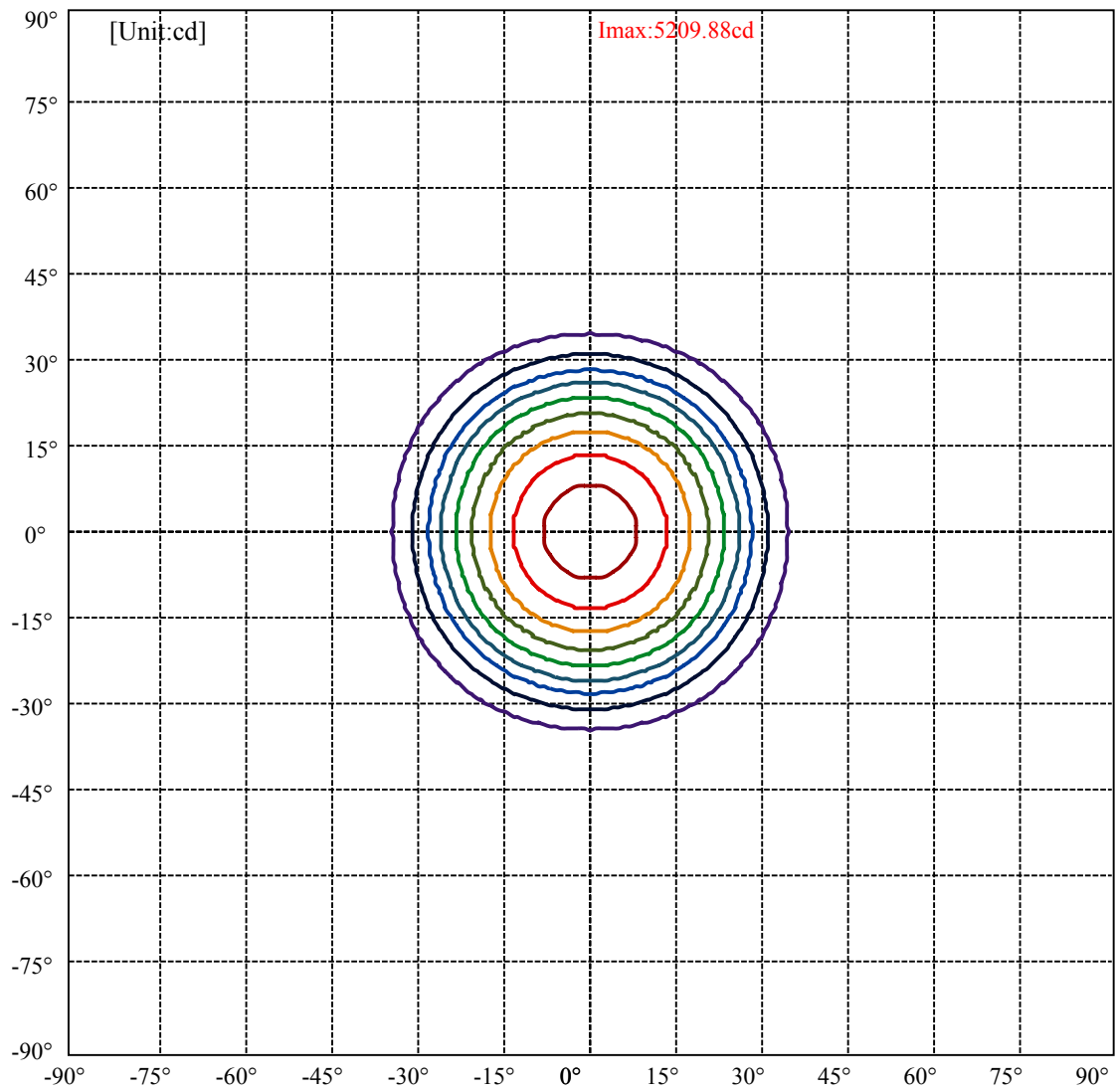
C0/C180: —————

C90/C270: —————

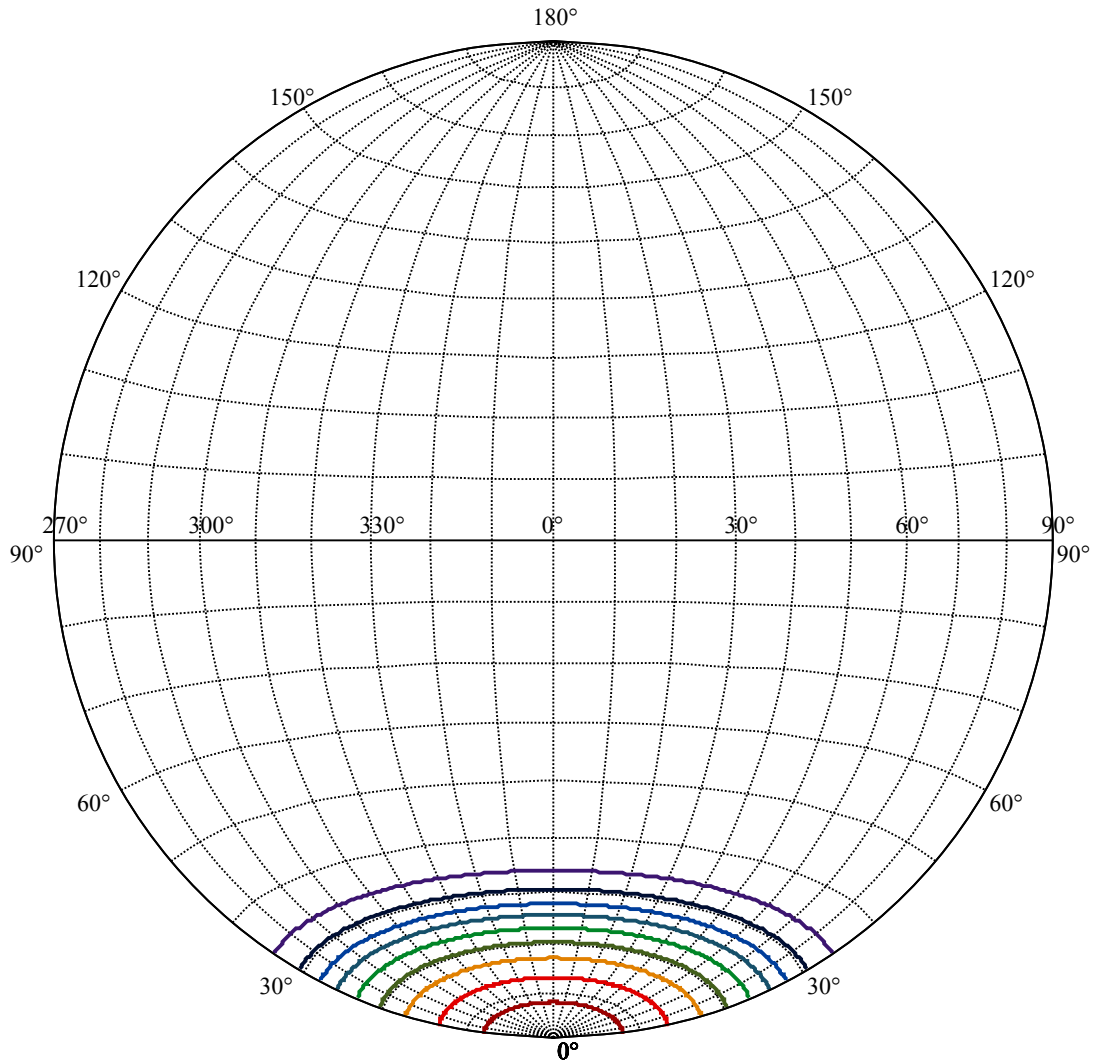
Field angle(10%Imax):C0/180Left:34.1 Right:34.1
:C90/270Left:34.1 Right:34.1

Beam Angle(50%Imax):C0/180Left:23.2 Right:23.2
:C90/270Left:23.2 Right:23.2





(10%Imax) 520.988	—
(20%Imax) 1041.98	—
(30%Imax) 1562.96	—
(40%Imax) 2083.95	—
(50%Imax) 2604.94	—
(60%Imax) 3125.93	—
(70%Imax) 3646.92	—
(80%Imax) 4167.9	—
(90%Imax) 4688.89	—



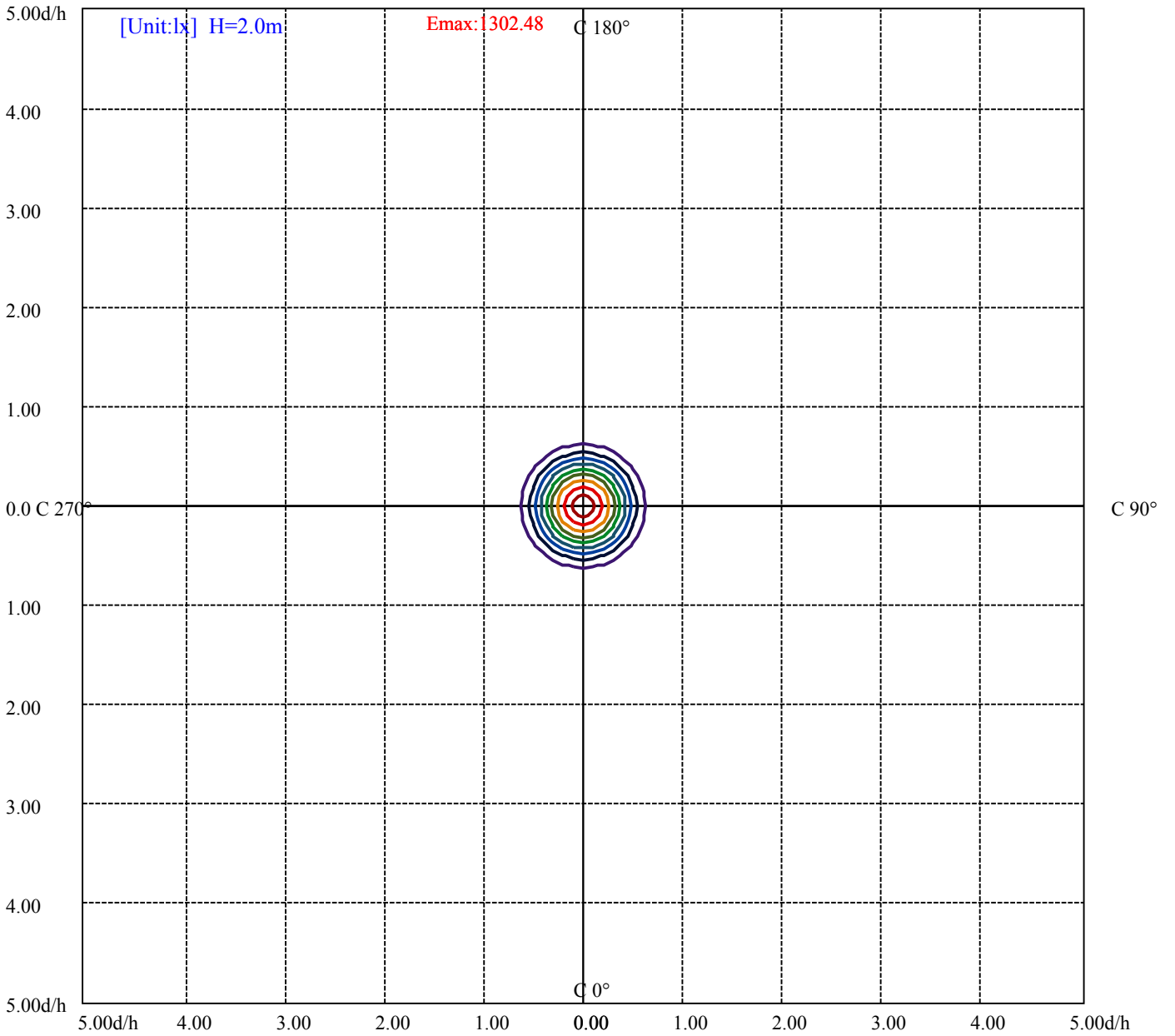
House

[Unit:cd]

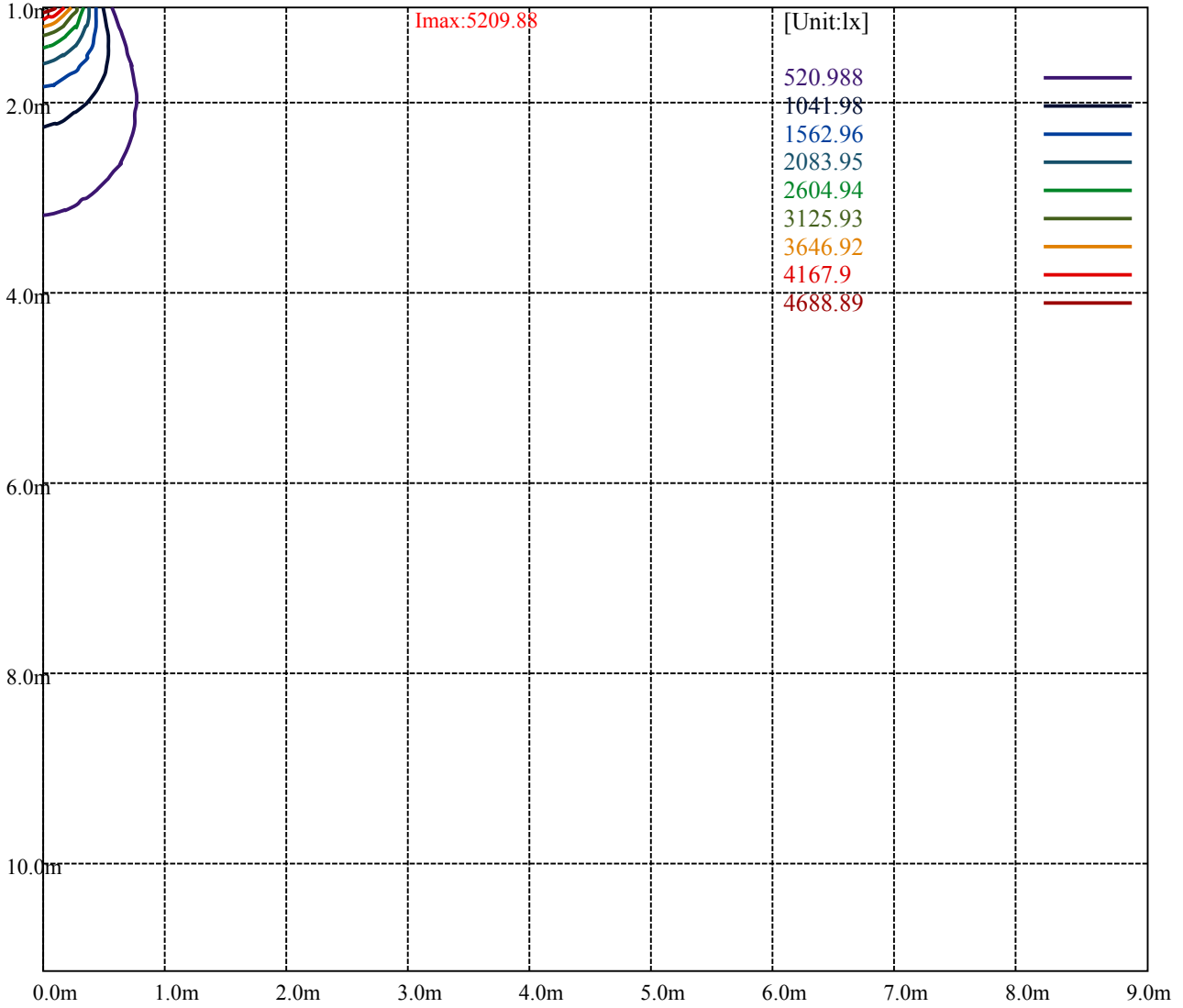
Road

Imax:5209.88

(10%Imax) 520.988	—
(20%Imax) 1041.98	—
(30%Imax) 1562.96	—
(40%Imax) 2083.95	—
(50%Imax) 2604.94	—
(60%Imax) 3125.93	—
(70%Imax) 3646.92	—
(80%Imax) 4167.9	—
(90%Imax) 4688.89	—



(10%Emax) 130.247	—
(20%Emax) 260.495	—
(30%Emax) 390.74	—
(40%Emax) 520.9875	—
(50%Emax) 651.235	—
(60%Emax) 781.4825	—
(70%Emax) 911.7275	—
(80%Emax) 1041.975	—
(90%Emax) 1172.223	—



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

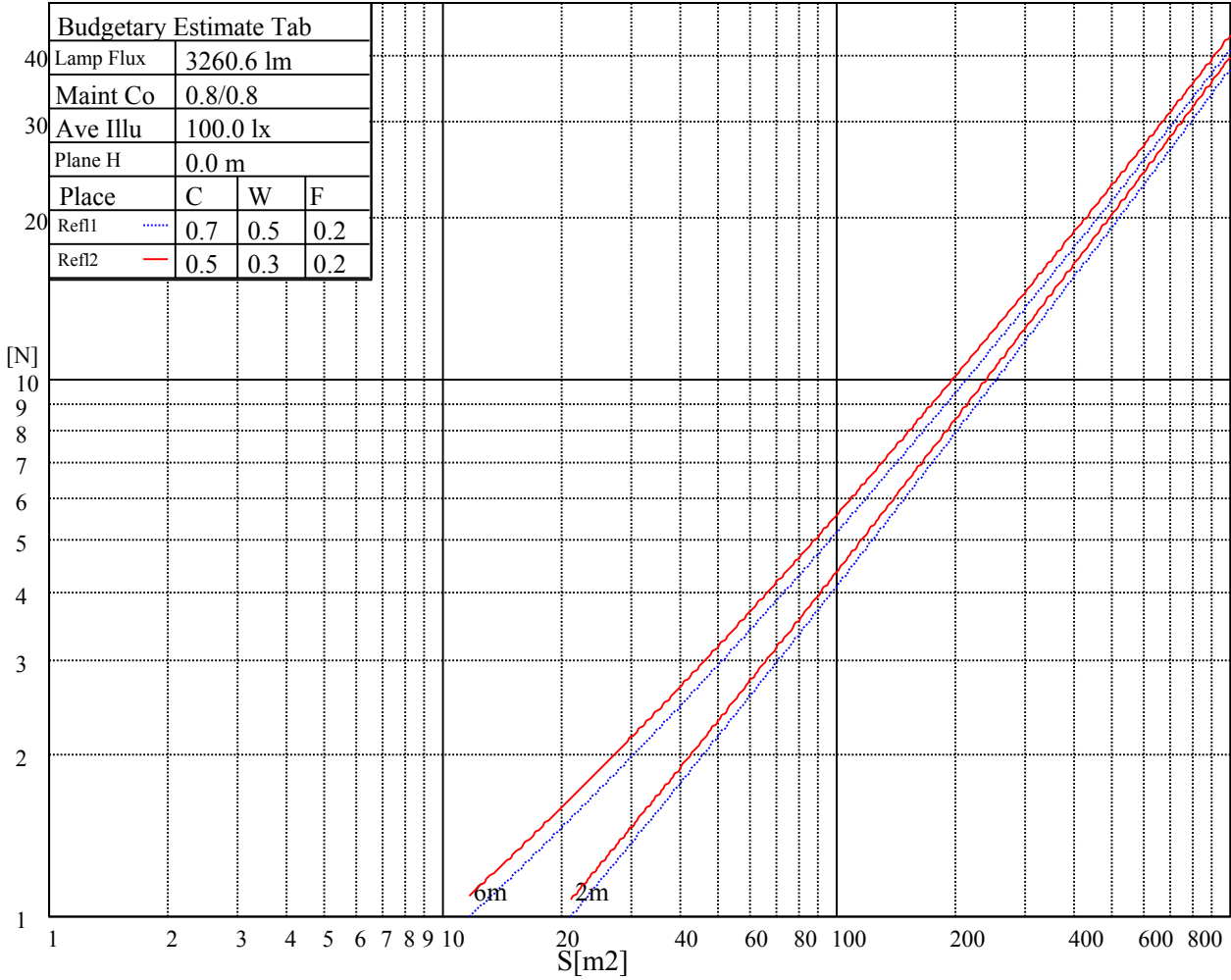
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

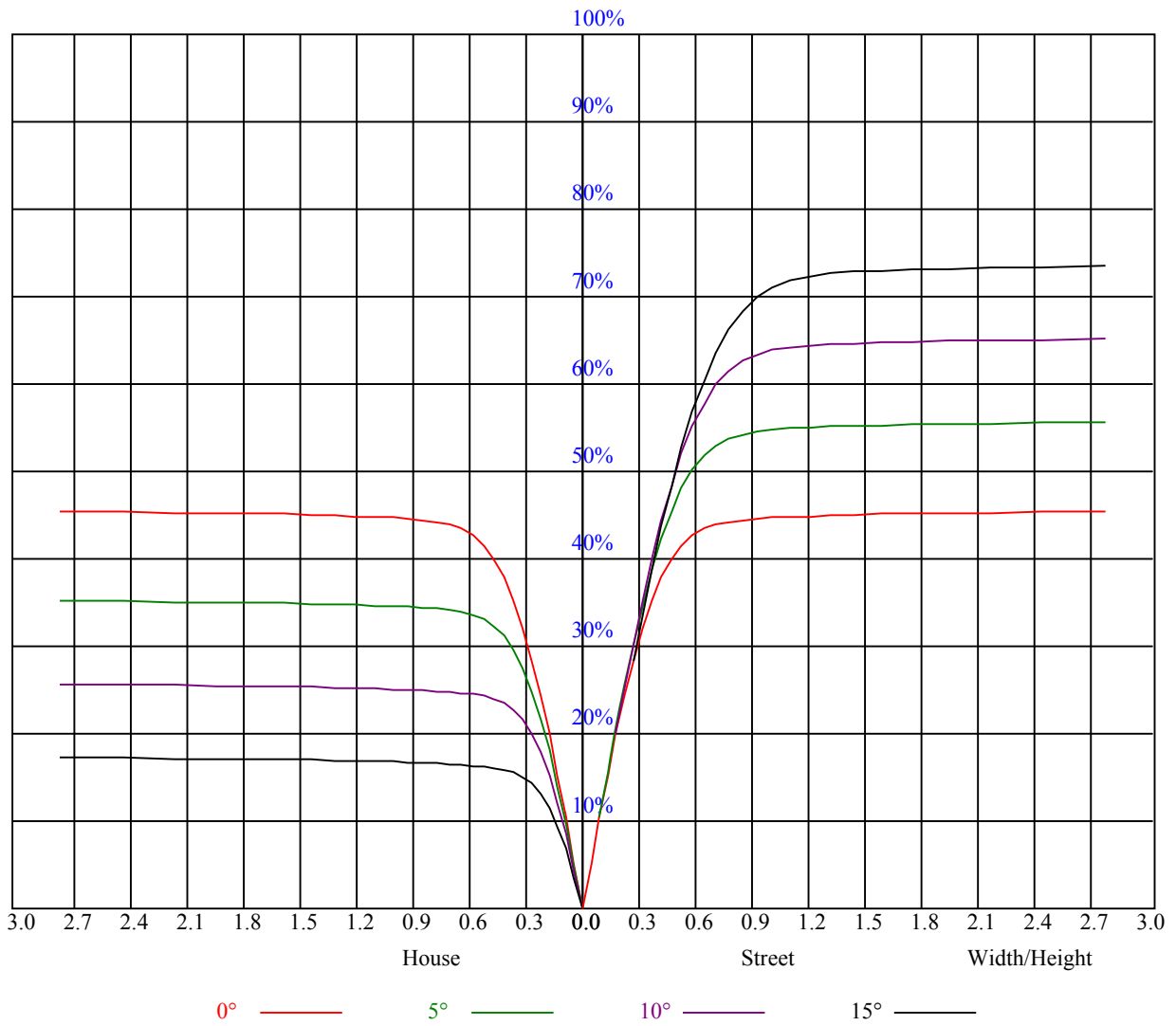


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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 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	0.92
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	0.82	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	0.76	0.84	0.79	0.76	0.82	0.78	0.75	0.80	0.77	0.74	0.78	0.76	0.73	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	0.66	0.72	0.68	0.66	0.65
7	0.72	0.67	0.64	0.72	0.67	0.64	0.71	0.66	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	0.60	0.67	0.63	0.60	0.66	0.63	0.60	0.66	0.62	0.60	0.59
9	0.66	0.61	0.58	0.65	0.61	0.57	0.64	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.57	0.56
10	0.63	0.58	0.55	0.62	0.58	0.55	0.62	0.57	0.55	0.61	0.57	0.54	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	5187.19	5109.69	5059.87	4978.50	4893.26	4787.53	4695.65	4627.56	4525.16
45.0	5237.00	5201.58	5139.03	5082.01	4970.75	4891.04	4809.67	4696.20	4620.92
90.0	5187.19	5139.58	5086.44	5011.16	4920.38	4840.12	4746.02	4633.10	4551.17
135.0	5228.15	5205.45	5171.13	5127.96	5032.75	4967.43	4859.49	4768.16	4686.79
180.0	5187.19	5232.58	5227.04	5194.94	5165.04	5099.17	5013.38	4930.35	4848.98
225.0	5237.00	5217.63	5195.49	5151.21	5093.08	5041.61	4941.42	4855.62	4785.32
270.0	5187.19	5234.79	5208.77	5167.81	5141.24	5084.23	5018.91	4922.60	4830.71
315.0	5228.15	5204.90	5142.35	5108.58	5031.09	4958.02	4872.22	4779.23	4699.52
360.0	5187.19	5109.69	5059.87	4978.50	4893.26	4787.53	4695.65	4627.56	4525.16
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4438.25	4350.79	4229.57	4127.72	4026.97	3875.31	3731.94	3583.04	3395.94
45.0	4536.23	4441.02	4320.90	4232.34	4141.56	4033.62	3925.12	3766.26	3640.05
90.0	4465.93	4328.10	4229.02	4132.15	4026.42	3890.25	3778.99	3653.34	3520.49
135.0	4573.87	4478.11	4377.36	4253.37	4153.73	4049.67	3931.77	3772.35	3651.12
180.0	4748.23	4664.09	4577.74	4489.18	4360.20	4246.73	4136.02	4033.06	3873.64
225.0	4696.75	4615.94	4500.80	4406.70	4284.92	4176.98	4065.17	3899.11	3763.49
270.0	4759.86	4683.47	4577.74	4486.41	4395.63	4277.17	4171.45	4035.83	3919.03
315.0	4603.21	4516.85	4392.86	4307.06	4219.60	4105.58	3990.99	3865.90	3717.55
360.0	4438.25	4350.79	4229.57	4127.72	4026.97	3875.31	3731.94	3583.04	3395.94
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3244.27	3074.89	2904.96	2691.29	2514.16	2324.85	2132.22	1890.33	1697.14
45.0	3482.29	3337.27	3185.05	2991.86	2831.34	2660.85	2422.27	2223.00	2018.19
90.0	3339.48	3186.71	2980.24	2815.84	2644.24	2413.42	2222.45	2020.96	1817.26
135.0	3515.51	3373.25	3180.62	3025.63	2868.42	2653.65	2464.34	2221.34	2018.19
180.0	3727.51	3579.72	3381.55	3217.70	3042.79	2825.25	2640.92	2448.84	2208.06
225.0	3616.25	3414.21	3243.17	3067.14	2889.46	2652.54	2454.38	2249.57	2048.64
270.0	3784.53	3647.80	3465.69	3305.72	3125.82	2948.13	2730.04	2544.60	2351.42
315.0	3532.11	3380.44	3212.17	3041.13	2866.21	2649.22	2461.57	2216.91	2017.64
360.0	3244.27	3074.89	2904.96	2691.29	2514.16	2324.85	2132.22	1890.33	1697.14
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1307.45	1088.09	1088.09	883.94	740.30	611.88	500.56	385.37	309.98
45.0	1811.17	1559.31	1361.15	1169.62	991.94	792.11	654.28	536.93	414.04
90.0	1554.33	1100.93	1100.93	963.71	759.67	621.12	505.05	408.40	310.98
135.0	1810.62	1607.47	1357.82	1167.96	991.94	828.09	654.28	538.59	439.51
180.0	2013.76	1811.17	1609.68	1365.02	1174.05	989.72	828.64	654.28	539.14
225.0	1796.22	1590.31	1086.09	1086.09	955.13	761.50	630.70	518.11	401.09
270.0	2154.36	1899.74	1694.93	1439.75	1230.51	1024.04	808.16	666.46	544.68
315.0	1814.49	1557.10	1064.45	1064.45	931.93	772.68	636.12	520.93	403.08
360.0	1307.45	1088.09	1088.09	883.94	740.30	611.88	500.56	385.37	309.98
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	248.98	199.33	151.56	123.88	103.57	88.95	75.89	68.25	60.67
45.0	332.12	280.64	280.64	158.15	129.58	104.29	90.06	79.54	69.36
90.0	251.47	204.31	160.69	134.62	109.49	93.77	82.14	73.45	65.04
135.0	354.82	284.52	284.52	168.83	130.75	109.10	89.51	78.38	69.97
180.0	442.28	339.87	289.50	289.50	162.79	132.13	104.34	88.68	77.27
225.0	324.87	262.15	211.95	171.21	132.52	110.26	93.82	81.43	70.19
270.0	443.38	337.10	286.18	286.18	172.87	134.90	112.76	96.09	80.93
315.0	325.48	262.71	211.23	161.69	131.46	108.71	88.84	77.77	67.70
360.0	248.98	199.33	151.56	123.88	103.57	88.95	75.89	68.25	60.67

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	55.74	51.59	47.22	44.28	41.68	39.47	37.09	35.37	33.88
45.0	63.16	57.84	53.36	49.43	45.33	42.62	40.19	37.75	36.04
90.0	59.67	55.08	51.04	46.88	44.12	41.68	39.02	37.09	35.09
135.0	63.21	56.52	52.20	48.32	45.06	41.68	39.36	37.42	35.37
180.0	68.92	61.17	56.18	51.92	48.27	44.45	41.79	39.52	37.53
225.0	63.49	56.90	52.59	48.93	44.95	42.29	39.97	37.42	35.70
270.0	72.18	65.43	58.79	54.41	49.82	46.61	43.84	41.40	38.69
315.0	61.50	56.46	51.26	47.71	44.73	42.07	39.74	37.20	35.43
360.0	55.74	51.59	47.22	44.28	41.68	39.47	37.09	35.37	33.88
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	32.55	31.05	30.06	29.06	28.23	27.23	26.51	25.74	25.08
45.0	34.10	32.71	31.61	30.33	29.34	28.45	27.62	26.68	26.02
90.0	33.60	32.27	30.83	29.78	28.78	27.95	26.96	26.18	25.57
135.0	33.93	32.55	31.11	30.00	28.78	27.95	27.12	26.46	25.57
180.0	35.37	33.93	32.27	31.11	30.06	28.84	28.01	27.18	26.46
225.0	34.26	32.88	31.33	30.33	29.34	28.45	27.46	26.68	25.96
270.0	36.81	35.20	33.71	32.05	30.89	29.84	28.89	27.84	27.01
315.0	33.93	32.55	31.11	30.06	29.17	28.06	27.29	26.40	25.68
360.0	32.55	31.05	30.06	29.06	28.23	27.23	26.51	25.74	25.08
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	24.36	23.80	23.25	22.75	22.09	21.53	21.09	20.59	19.98
45.0	25.41	24.74	24.08	23.58	22.97	22.36	21.75	21.15	20.59
90.0	24.91	24.13	23.58	23.03	22.31	21.75	21.26	20.59	20.09
135.0	24.96	24.36	23.80	23.14	22.58	22.09	21.53	20.87	20.43
180.0	25.63	24.96	24.36	23.75	23.14	22.58	22.09	21.48	20.98
225.0	25.13	24.52	23.80	23.25	22.69	22.20	21.53	21.03	20.54
270.0	26.13	25.46	24.74	24.02	23.53	22.92	22.42	21.75	21.20
315.0	25.08	24.30	23.75	23.25	22.75	22.09	21.59	21.09	20.59
360.0	24.36	23.80	23.25	22.75	22.09	21.53	21.09	20.59	19.98
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	19.48	19.04	18.60	17.99	17.60	16.94	16.50	16.05	15.50
45.0	20.15	19.71	19.04	18.60	18.10	17.66	17.05	16.61	16.16
90.0	19.60	19.04	18.54	18.05	17.55	16.99	16.50	16.05	15.61
135.0	19.87	19.37	18.93	18.32	17.82	17.33	16.88	16.33	15.89
180.0	20.48	19.87	19.43	18.82	18.32	17.88	17.38	16.94	16.38
225.0	20.04	19.48	18.99	18.49	18.05	17.38	16.99	16.38	15.94
270.0	20.70	20.20	19.60	19.10	18.60	17.99	17.49	16.88	16.44
315.0	19.98	19.54	19.04	18.43	17.93	17.38	16.94	16.44	15.89
360.0	19.48	19.04	18.60	17.99	17.60	16.94	16.50	16.05	15.50
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	15.11	14.67	14.34	13.89	13.62	13.23	12.95	12.62	12.68
45.0	15.61	15.22	14.61	14.34	13.89	13.51	13.23	12.90	12.57
90.0	15.11	14.67	14.23	13.95	13.51	13.23	12.90	12.57	12.51
135.0	15.50	15.00	14.56	14.12	13.73	13.45	13.23	12.84	12.57
180.0	15.94	15.44	15.00	14.50	14.12	13.78	13.51	13.17	12.90
225.0	15.50	15.06	14.61	14.23	13.78	13.45	13.17	12.90	12.62
270.0	15.94	15.44	15.00	14.56	14.17	13.78	13.40	13.06	12.79
315.0	15.50	15.00	14.67	14.17	13.89	13.51	13.17	12.90	12.62
360.0	15.11	14.67	14.34	13.89	13.62	13.23	12.95	12.62	12.68

Intensity data(cd)

C/γ(°)	90.0
0.0	12.62
45.0	12.62
90.0	12.57
135.0	12.62
180.0	12.57
225.0	12.51
270.0	12.57
315.0	12.51
360.0	12.62