



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: 2-2644-L

Luminaire: 92.70.412.00

Report No: 20231031-B024

Ballast type: AC

Test No: 20231031-C024

Voltage(V): 34.660

LampCAT: Fortimo_SLM_C_1208

Current(A): 0.576

Lamp flux(lm): 3260.6

Power (W): 19.964

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2947.42, Efficiency(%): 90.40% , Luminous Efficacy(lm/W): 147.64

Central intensity(cd): 9907.741, Maximum intensity(cd): 9907.741

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=25.8

[C90/270]Total=25.8

Field angle(10%Imax): [C0/180]Total=56.6

[C90/270]Total=56.6

Maximum s/h(1/2): C0_180=0.43 C90_270=0.43

Maximum s/h(1/4): C0_180=0.47 C90_270=0.47

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 90.40%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.807%

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	9907.741	0.000	0	0.00%	0.00%
1.0	9869.270	9.463	9.463	0.29%	0.32%
2.0	9729.364	28.130	37.593	0.86%	1.28%
3.0	9521.442	46.042	83.634	1.41%	2.84%
4.0	9259.412	62.866	146.5	1.93%	4.97%
5.0	8905.564	78.145	224.645	2.40%	7.62%
6.0	8534.003	91.650	316.294	2.81%	10.73%
7.0	8104.182	103.273	419.567	3.17%	14.24%
8.0	7602.056	112.407	531.974	3.45%	18.05%
9.0	7059.660	118.825	650.799	3.64%	22.08%
10.0	6496.990	122.683	773.482	3.76%	26.24%
11.0	5976.736	124.638	898.12	3.82%	30.47%
12.0	5414.620	124.524	1022.644	3.82%	34.70%
13.0	4923.634	122.689	1145.333	3.76%	38.86%
14.0	4460.116	120.111	1265.444	3.68%	42.93%
15.0	4049.808	116.828	1382.272	3.58%	46.90%
16.0	3672.850	113.159	1495.43	3.47%	50.74%
17.0	3325.990	108.991	1604.421	3.34%	54.43%
18.0	3015.526	104.558	1708.979	3.21%	57.98%
19.0	2717.170	99.737	1808.716	3.06%	61.37%
20.0	2466.902	94.883	1903.599	2.91%	64.59%
21.0	2217.673	89.953	1993.552	2.76%	67.64%
22.0	2000.687	84.770	2078.322	2.60%	70.51%
23.0	1802.936	79.810	2158.132	2.45%	73.22%
24.0	1632.239	75.105	2233.238	2.30%	75.77%
25.0	1420.789	69.419	2302.657	2.13%	78.12%
26.0	1247.303	62.981	2365.637	1.93%	80.26%
27.0	1155.901	58.795	2424.432	1.80%	82.26%
28.0	1038.897	55.568	2480	1.70%	84.14%
29.0	894.051	50.571	2530.571	1.55%	85.86%
30.0	768.349	44.884	2575.456	1.38%	87.38%
31.0	632.083	38.972	2614.428	1.20%	88.70%
32.0	521.486	33.048	2647.476	1.01%	89.82%
33.0	412.370	27.512	2674.988	0.84%	90.76%
34.0	318.595	22.121	2697.109	0.68%	91.51%
35.0	264.659	18.114	2715.223	0.56%	92.12%
36.0	236.837	15.968	2731.191	0.49%	92.66%
37.0	200.857	14.275	2745.466	0.44%	93.15%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	163.037	12.146	2757.612	0.37%	93.56%
39.0	146.050	10.550	2768.162	0.32%	93.92%
40.0	132.641	9.720	2777.882	0.30%	94.25%
41.0	119.681	8.985	2786.867	0.28%	94.55%
42.0	108.285	8.282	2795.149	0.25%	94.83%
43.0	98.350	7.654	2802.804	0.23%	95.09%
44.0	89.915	7.106	2809.909	0.22%	95.33%
45.0	82.048	6.609	2816.518	0.20%	95.56%
46.0	75.267	6.152	2822.67	0.19%	95.77%
47.0	69.462	5.756	2828.426	0.18%	95.96%
48.0	64.182	5.403	2833.829	0.17%	96.15%
49.0	59.692	5.087	2838.916	0.16%	96.32%
50.0	55.893	4.819	2843.735	0.15%	96.48%
51.0	52.406	4.582	2848.317	0.14%	96.64%
52.0	49.458	4.371	2852.688	0.13%	96.79%
53.0	46.926	4.193	2856.881	0.13%	96.93%
54.0	44.843	4.045	2860.926	0.12%	97.07%
55.0	42.871	3.915	2864.841	0.12%	97.20%
56.0	41.225	3.800	2868.641	0.12%	97.33%
57.0	39.654	3.698	2872.339	0.11%	97.45%
58.0	38.118	3.596	2875.936	0.11%	97.57%
59.0	36.471	3.487	2879.423	0.11%	97.69%
60.0	34.949	3.374	2882.797	0.10%	97.81%
61.0	33.558	3.269	2886.066	0.10%	97.92%
62.0	32.022	3.160	2889.226	0.10%	98.03%
63.0	30.611	3.046	2892.272	0.09%	98.13%
64.0	29.330	2.941	2895.214	0.09%	98.23%
65.0	28.175	2.846	2898.06	0.09%	98.33%
66.0	27.019	2.754	2900.813	0.08%	98.42%
67.0	26.009	2.666	2903.48	0.08%	98.51%
68.0	25.075	2.588	2906.068	0.08%	98.60%
69.0	24.162	2.512	2908.579	0.08%	98.68%
70.0	23.332	2.439	2911.019	0.07%	98.76%
71.0	22.515	2.370	2913.388	0.07%	98.85%
72.0	21.657	2.297	2915.685	0.07%	98.92%
73.0	20.965	2.229	2917.914	0.07%	99.00%
74.0	20.287	2.169	2920.083	0.07%	99.07%
75.0	19.623	2.109	2922.191	0.06%	99.14%

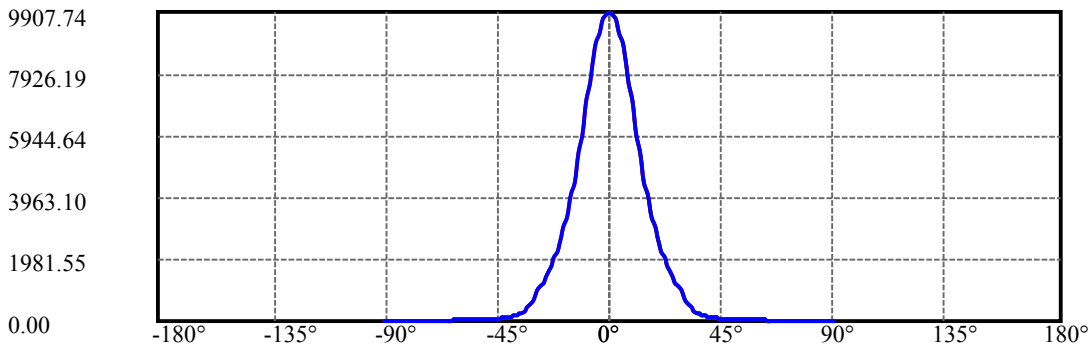
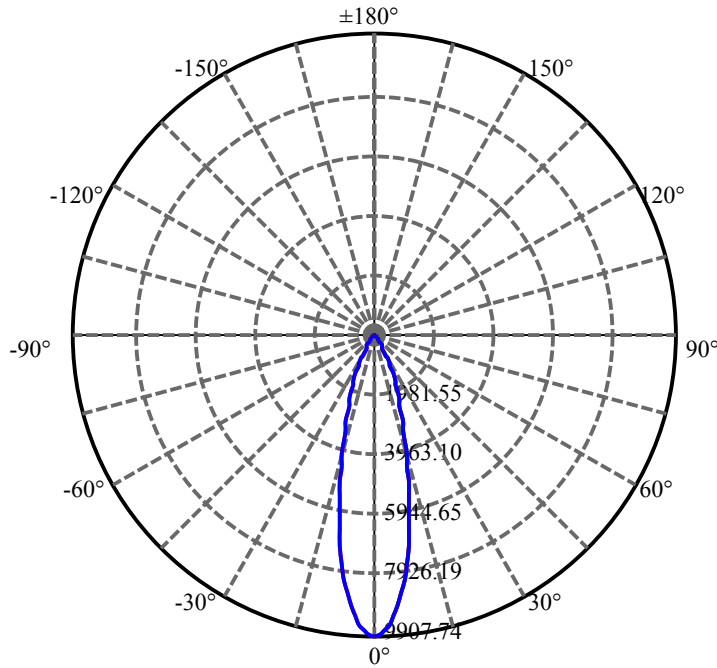
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	19.014	2.051	2924.242	0.06%	99.21%
77.0	18.412	1.995	2926.238	0.06%	99.28%
78.0	17.824	1.940	2928.177	0.06%	99.35%
79.0	17.270	1.886	2930.063	0.06%	99.41%
80.0	16.724	1.833	2931.896	0.06%	99.47%
81.0	16.226	1.782	2933.678	0.05%	99.53%
82.0	15.679	1.730	2935.408	0.05%	99.59%
83.0	15.160	1.676	2937.084	0.05%	99.65%
84.0	14.696	1.627	2938.711	0.05%	99.70%
85.0	14.150	1.574	2940.285	0.05%	99.76%
86.0	13.527	1.513	2941.798	0.05%	99.81%
87.0	13.119	1.458	2943.256	0.04%	99.86%
88.0	12.745	1.417	2944.673	0.04%	99.91%
89.0	12.517	1.385	2946.058	0.04%	99.95%
90.0	12.399	1.366	2947.424	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2575.46	78.99%	87.38%
0-40	2777.88	85.20%	94.25%
0-60	2882.80	88.41%	97.81%
0-90	2946.06	90.35%	99.95%
0-120	2946.06	90.35%	99.95%
0-180	2947.42	90.40%	100.00%
60-90	63.26	1.94%	2.15%
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%
0-25.88	2357.94	72.32%	80.00%

ZONAL LUMEN SUMMARY

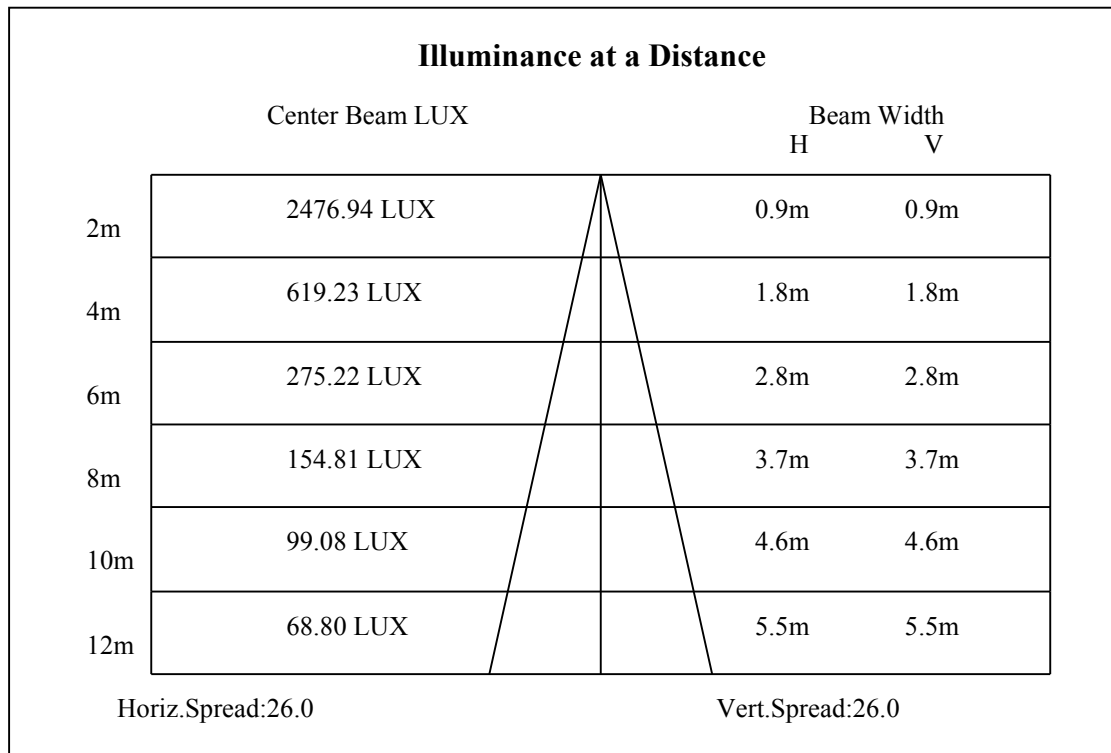
0-10	773.48
10-20	1130.12
20-30	671.86
30-40	202.43
40-50	65.85
50-60	39.06
60-70	28.22
70-80	20.88
80-90	14.16
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

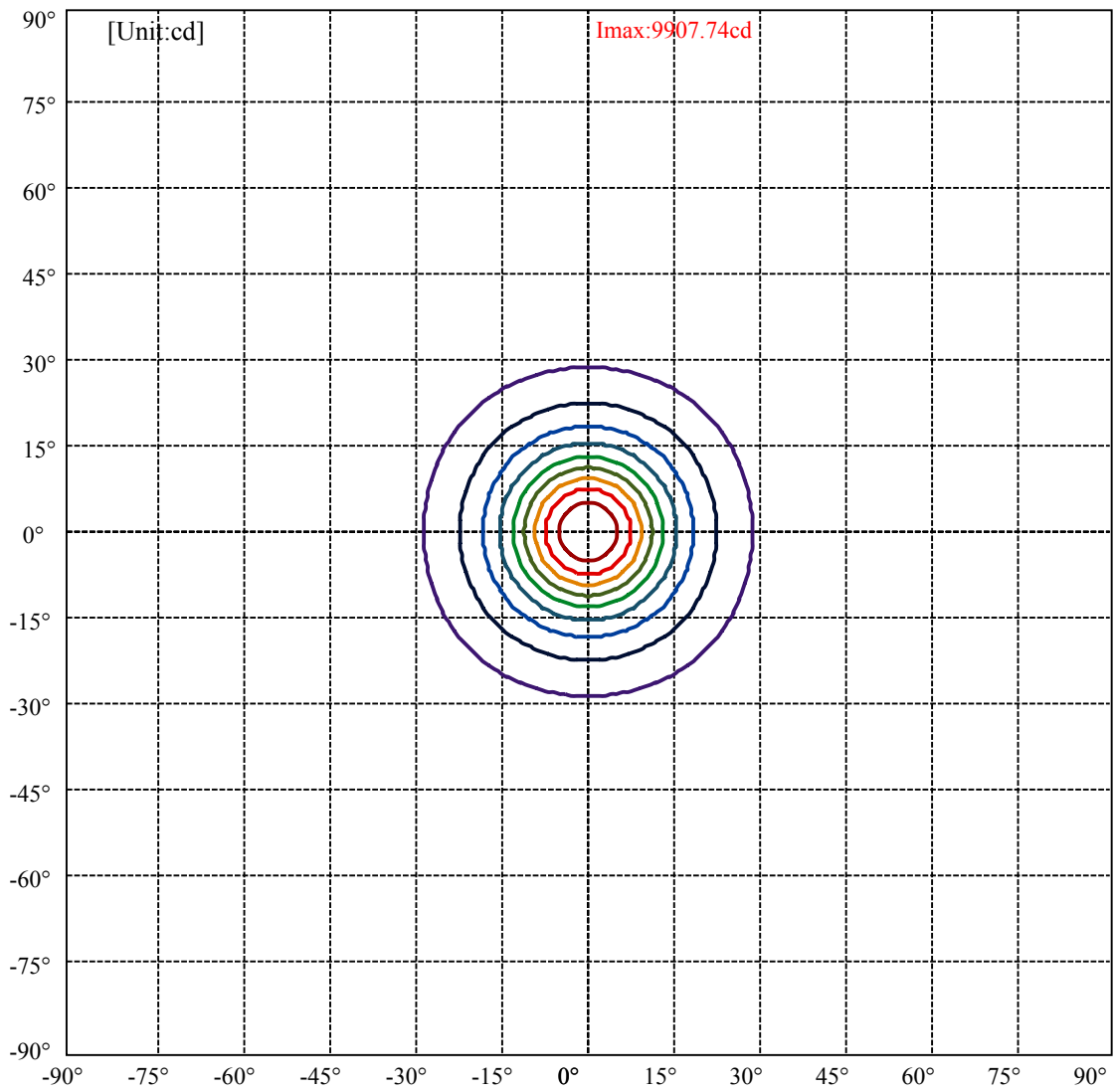


C0(Max): ———
C0/C180: ———
C90/C270: ———

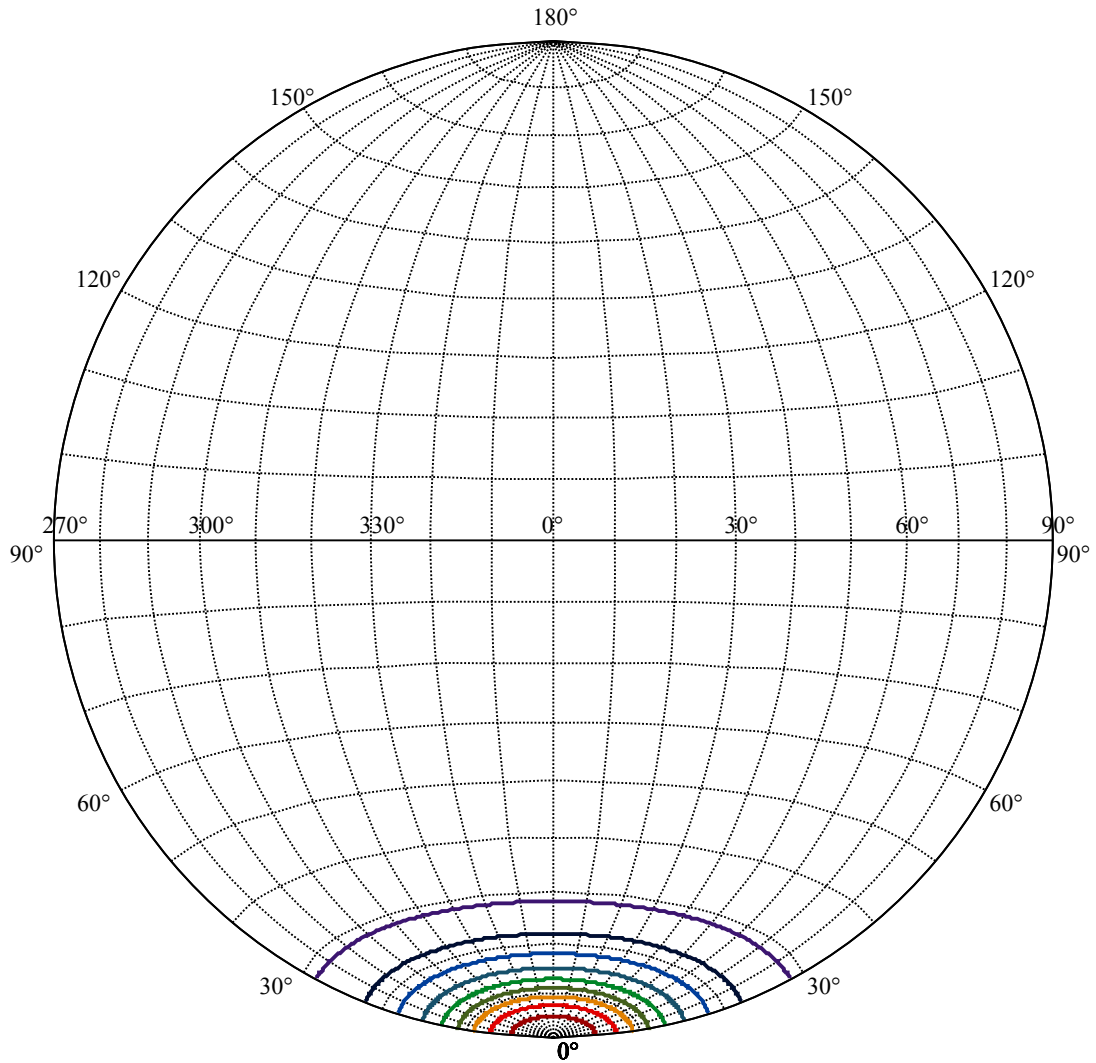
Field angle(10%Imax):C0/180Left:28.3 Right:28.3
:C90/270Left:28.3 Right:28.3

Beam Angle(50%Imax):C0/180Left:12.9 Right:12.9
:C90/270Left:12.9 Right:12.9





(10%Imax) 990.774	—
(20%Imax) 1981.55	—
(30%Imax) 2972.32	—
(40%Imax) 3963.1	—
(50%Imax) 4953.87	—
(60%Imax) 5944.64	—
(70%Imax) 6935.42	—
(80%Imax) 7926.19	—
(90%Imax) 8916.97	—



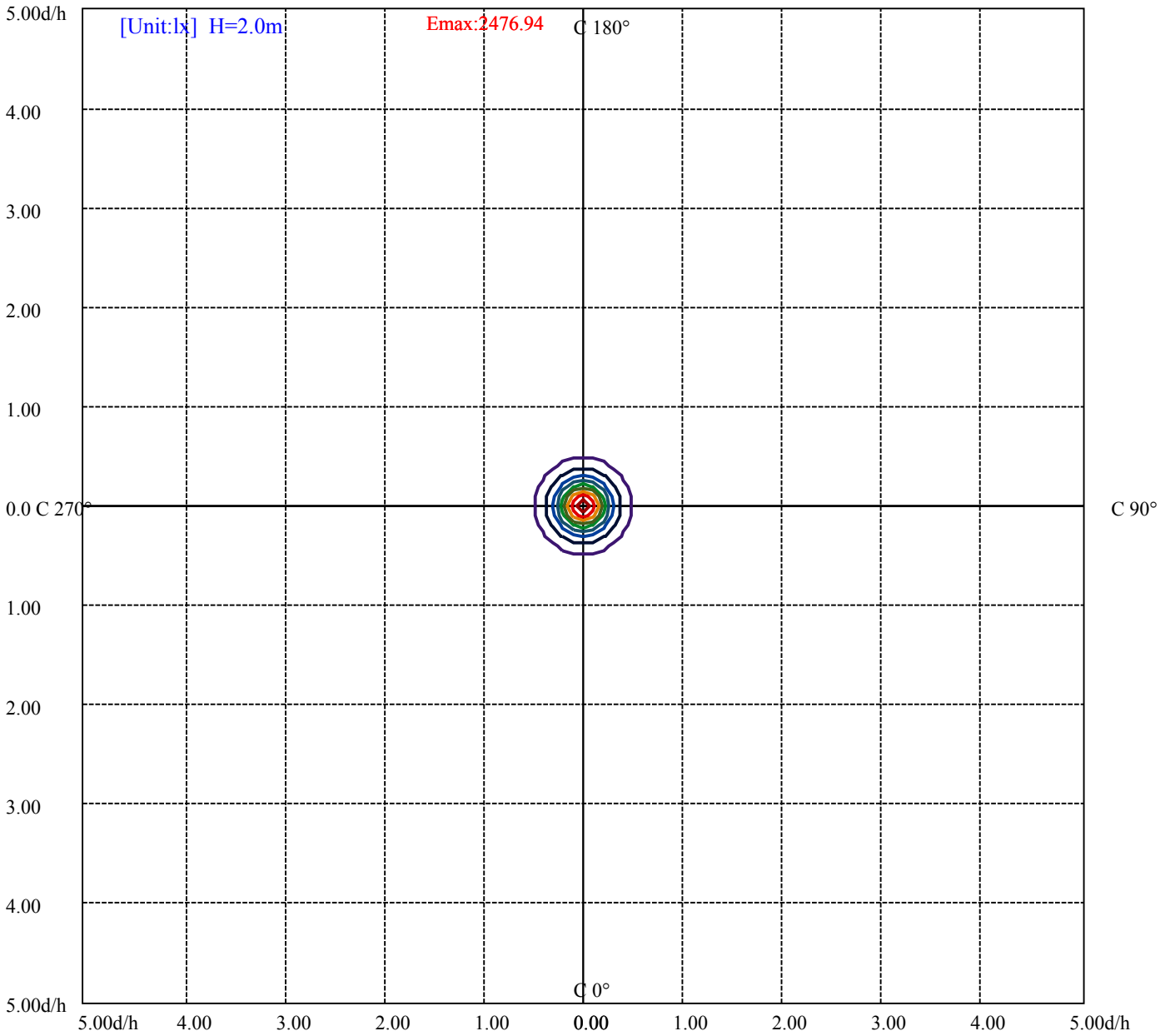
House

[Unit:cd]

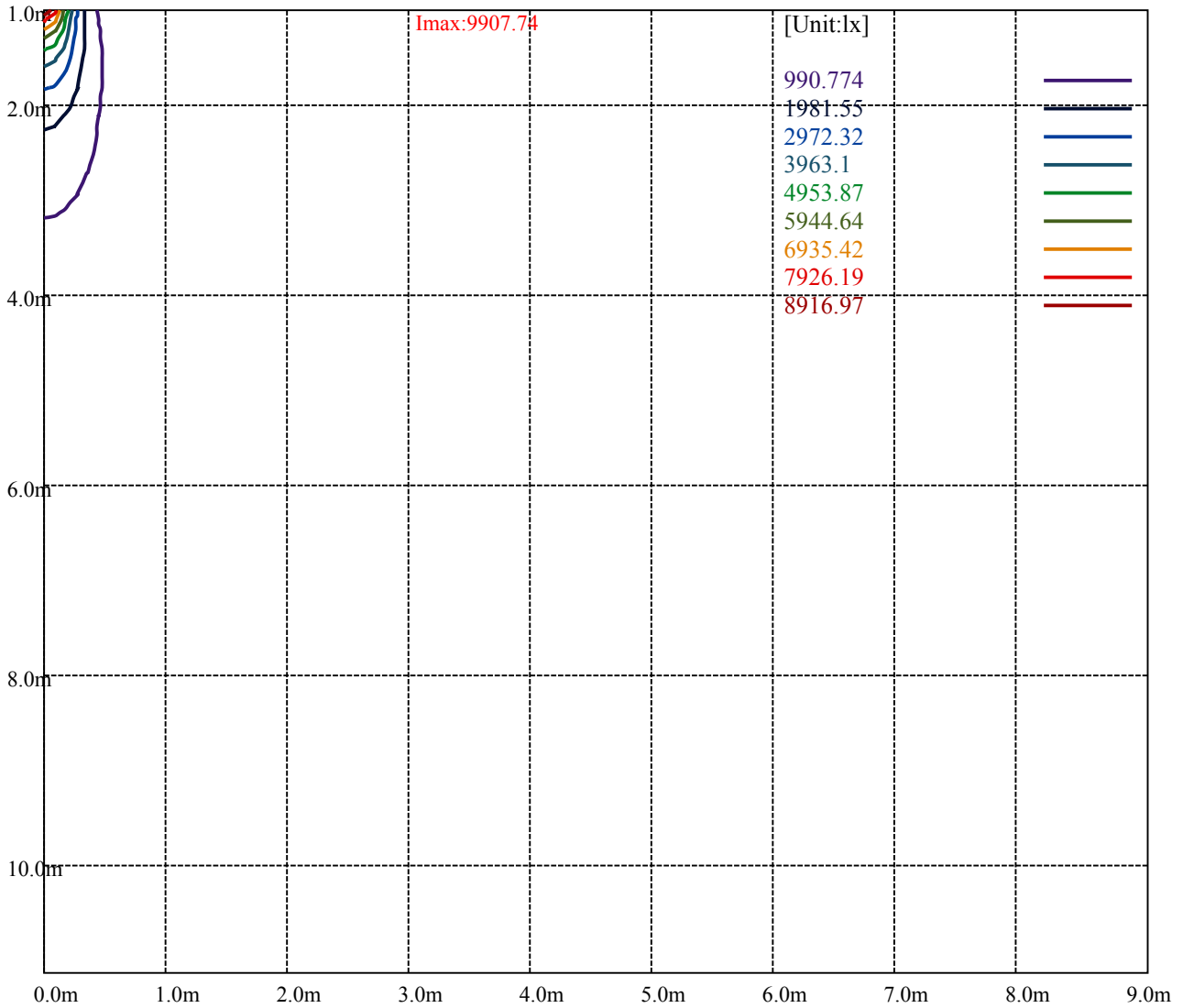
Road

Imax:9907.74

(10%Imax)	990.774	—
(20%Imax)	1981.55	—
(30%Imax)	2972.32	—
(40%Imax)	3963.1	—
(50%Imax)	4953.87	—
(60%Imax)	5944.64	—
(70%Imax)	6935.42	—
(80%Imax)	7926.19	—
(90%Imax)	8916.97	—



(10%Emax) 247.6935	—
(20%Emax) 495.3875	—
(30%Emax) 743.08	—
(40%Emax) 990.7725	—
(50%Emax) 1238.468	—
(60%Emax) 1486.16	—
(70%Emax) 1733.853	—
(80%Emax) 1981.547	—
(90%Emax) 2229.24	—



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

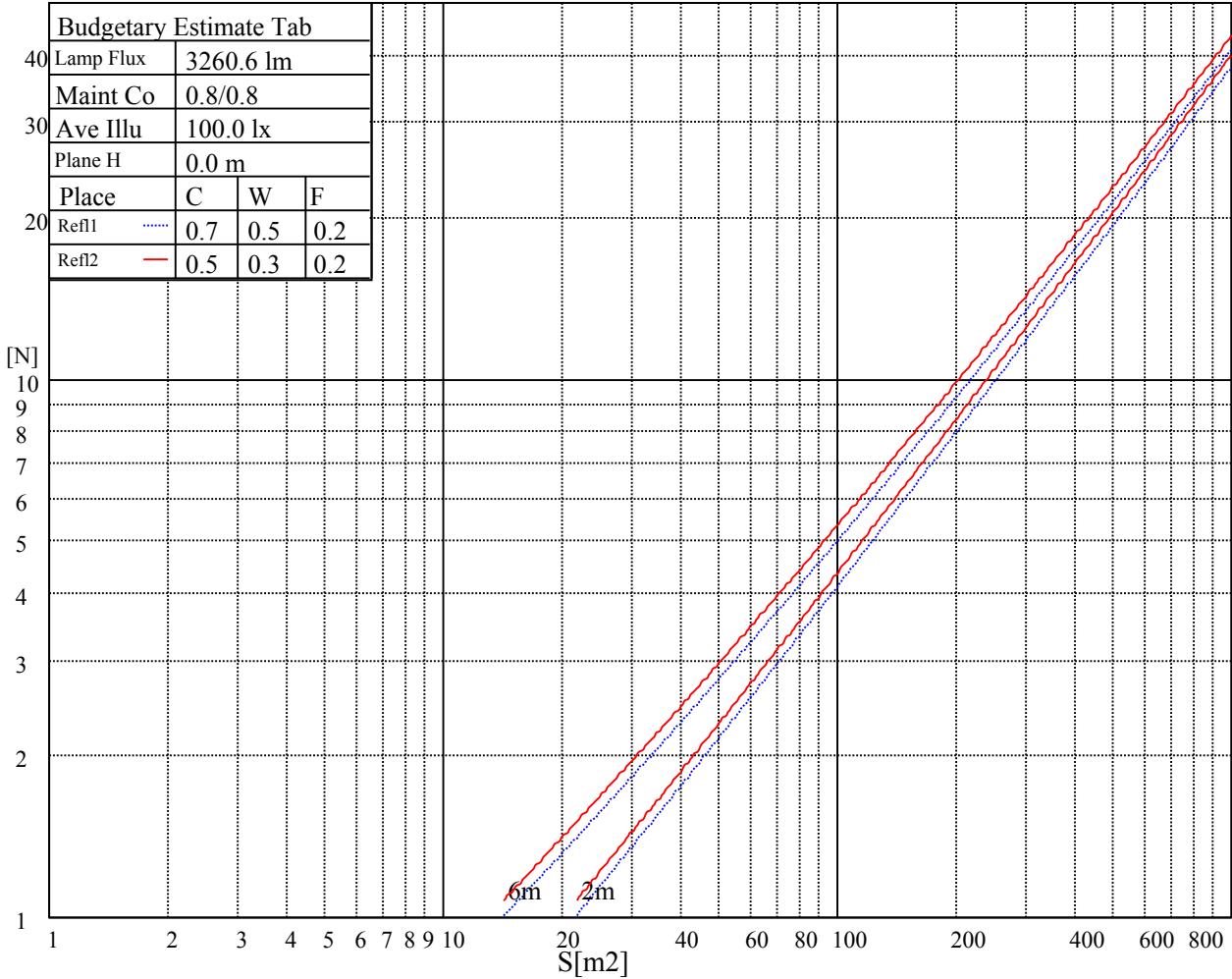
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

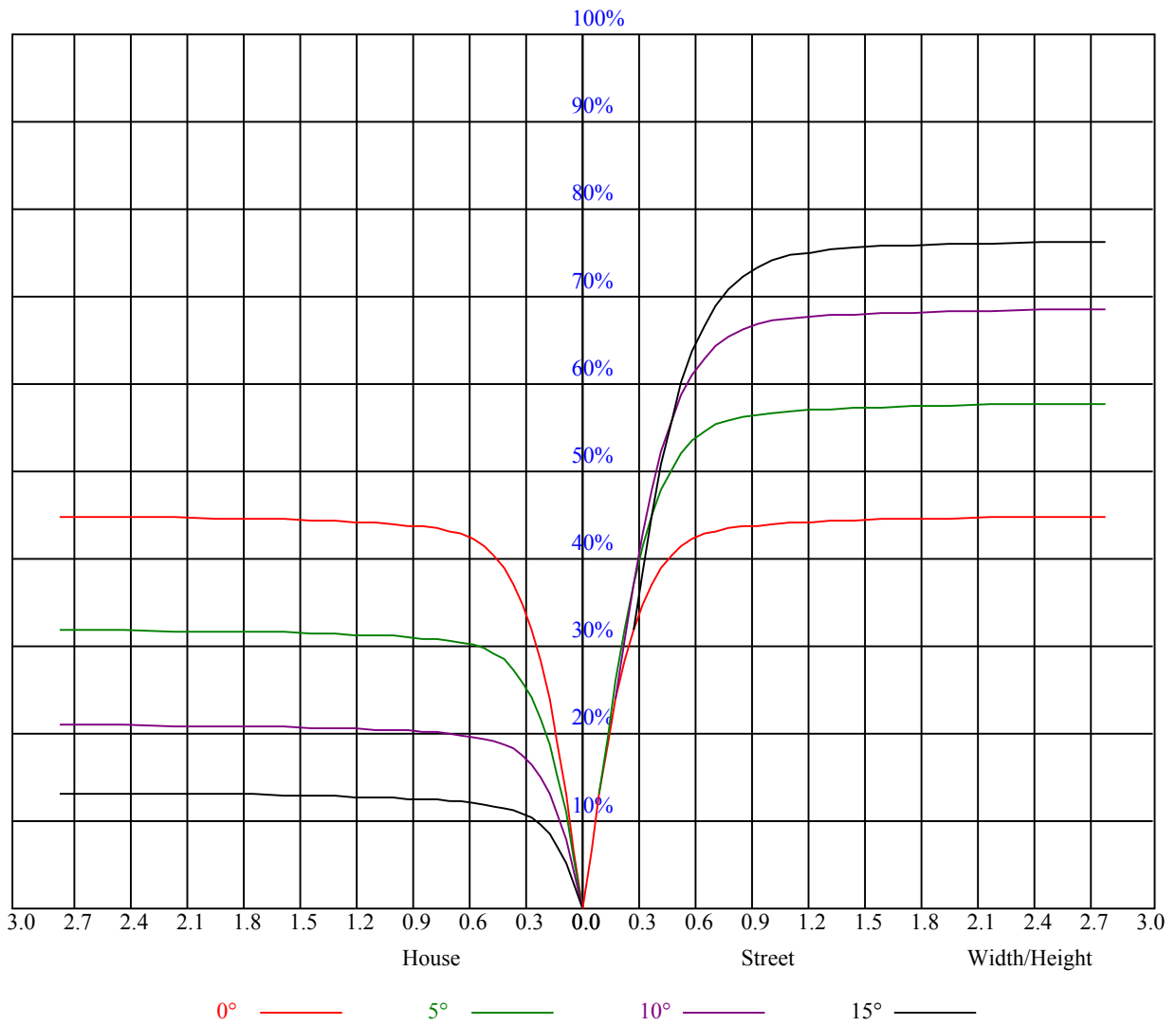


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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	1.08	1.08	1.08	1.05	1.05	1.05	1.00	1.00	1.00	0.96	0.96	0.96	0.92	0.92	0.92	0.90
1	1.01	0.99	0.97	0.99	0.97	0.95	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87	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	0.83	0.89	0.85	0.83	0.87	0.84	0.81	0.84	0.82	0.80	0.82	0.80	0.79	0.77
4	0.86	0.81	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	0.73	0.77	0.74	0.72	0.71
6	0.78	0.74	0.71	0.78	0.73	0.70	0.76	0.73	0.70	0.75	0.72	0.69	0.74	0.71	0.69	0.68
7	0.75	0.71	0.68	0.75	0.70	0.67	0.73	0.70	0.67	0.72	0.69	0.67	0.72	0.69	0.66	0.65
8	0.72	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.64	0.70	0.67	0.64	0.69	0.66	0.64	0.63
9	0.70	0.65	0.62	0.69	0.65	0.62	0.68	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.62	0.61
10	0.67	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.60	0.65	0.62	0.60	0.65	0.62	0.59	0.59



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	9886.71	9738.36	9479.30	9220.80	8898.64	8432.01	7999.70	7526.98	7021.60
45.0	9952.02	9898.33	9779.87	9534.66	9287.78	8969.50	8606.93	8202.30	7626.07
90.0	9876.19	9758.29	9516.39	9247.93	8930.20	8467.99	8036.79	7573.48	7069.76
135.0	9916.04	9862.90	9734.48	9530.23	9212.50	8868.75	8522.79	8114.28	7544.14
180.0	9886.71	9954.24	9911.62	9793.71	9621.01	9316.56	9008.80	8651.21	8242.15
225.0	9952.02	9909.96	9757.18	9559.01	9260.10	8944.59	8584.24	8038.45	7567.39
270.0	9876.19	9948.15	9901.10	9774.34	9580.60	9280.58	8975.03	8615.79	8087.71
315.0	9916.04	9883.94	9754.96	9510.86	9284.46	8964.52	8537.74	8110.96	7657.62
360.0	9886.71	9738.36	9479.30	9220.80	8898.64	8432.01	7999.70	7526.98	7021.60
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	6371.20	5847.00	5349.93	4892.70	4364.63	3993.21	3643.37	3315.68	2949.79
45.0	7136.19	6488.55	5959.92	5454.54	4867.24	4447.11	4054.10	3610.72	3288.00
90.0	6418.25	5894.05	5399.19	4817.42	4406.70	4031.40	3595.77	3274.72	2997.95
135.0	7054.26	6532.83	6000.33	5390.33	4919.83	4394.52	4018.67	3658.87	3261.99
180.0	7667.58	7182.68	6654.61	5984.28	5473.36	4993.45	4455.41	4071.26	3718.10
225.0	7048.17	6396.11	5862.50	5372.62	4920.38	4388.43	4008.71	3657.21	3334.50
270.0	7630.49	7137.85	6616.42	5945.53	5436.28	4956.91	4528.48	4052.44	3714.23
315.0	7151.13	6496.85	5970.99	5459.53	5000.64	4475.89	4093.95	3741.90	3343.36
360.0	6371.20	5847.00	5349.93	4892.70	4364.63	3993.21	3643.37	3315.68	2949.79
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2690.18	2392.38	2168.20	1915.79	1733.12	1583.11	1443.62	1082.55	1082.55
45.0	2997.95	2733.91	2431.68	2203.63	1998.26	1804.53	1608.58	1472.41	1287.52
90.0	2736.68	2443.31	2226.88	2019.30	1827.78	1622.41	1484.58	1093.40	1093.40
135.0	2982.45	2720.63	2482.61	2205.84	2001.59	1814.49	1655.63	1482.37	1341.22
180.0	3321.22	3026.18	2753.29	2457.15	2240.71	2029.26	1836.08	1633.48	1491.78
225.0	2968.61	2706.79	2466.00	2193.66	1988.85	1758.58	1605.25	1469.08	1100.32
270.0	3383.21	3010.68	2746.65	2507.52	2231.86	2022.62	1787.92	1634.59	1498.98
315.0	3043.89	2703.47	2459.91	2238.50	1983.32	1788.47	1636.25	1498.42	1082.66
360.0	2690.18	2392.38	2168.20	1915.79	1733.12	1583.11	1443.62	1082.55	1082.55
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	980.81	852.83	731.55	587.74	478.03	377.29	293.98	221.14	189.42
45.0	1145.82	1008.54	851.34	732.33	619.96	513.13	390.80	308.32	290.05
90.0	1025.76	897.89	746.11	631.97	497.46	400.48	317.01	252.36	205.58
135.0	1199.51	1064.45	905.03	782.70	635.46	526.97	425.67	317.73	282.86
180.0	1351.18	1213.90	1045.63	916.66	761.67	640.99	529.73	403.53	323.27
225.0	1100.32	1035.50	905.09	779.54	630.09	520.32	418.31	311.64	246.10
270.0	1361.15	1189.55	1051.72	925.51	795.43	668.12	526.97	423.46	336.00
315.0	1082.66	1048.51	915.94	790.34	638.56	524.59	396.50	310.59	244.00
360.0	980.81	852.83	731.55	587.74	478.03	377.29	293.98	221.14	189.42
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	166.50	151.39	137.17	121.89	110.93	101.52	90.67	83.20	76.39
45.0	290.05	177.13	160.97	146.19	132.79	118.29	107.99	98.86	88.57
90.0	185.77	169.11	153.88	136.94	125.27	114.53	105.01	94.32	86.63
135.0	282.86	182.33	165.51	149.73	136.28	121.34	111.09	101.85	93.60
180.0	287.29	287.29	181.84	164.51	148.85	135.01	119.95	109.54	100.08
225.0	205.31	182.17	160.30	144.58	131.19	116.46	106.39	95.26	87.46
270.0	280.64	280.64	184.00	162.41	147.02	133.46	118.84	108.83	99.64
315.0	196.28	176.80	160.64	142.15	128.81	116.85	106.33	94.93	86.96
360.0	166.50	151.39	137.17	121.89	110.93	101.52	90.67	83.20	76.39

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	70.58	64.21	59.78	56.13	52.70	49.15	46.72	44.01	42.29
45.0	81.59	73.84	68.47	63.49	58.40	54.80	51.64	49.04	46.00
90.0	79.93	72.68	67.48	62.05	58.12	54.86	51.98	48.60	46.44
135.0	84.36	77.88	72.02	65.70	61.39	57.57	53.42	50.76	48.16
180.0	89.56	82.26	75.89	68.86	63.93	59.73	55.19	51.92	49.26
225.0	80.48	74.28	67.70	63.05	58.95	55.52	51.64	49.04	46.77
270.0	89.78	82.92	76.78	71.18	65.15	61.00	57.29	53.97	50.54
315.0	80.10	74.06	67.59	62.99	58.90	54.52	51.37	48.32	45.94
360.0	70.58	64.21	59.78	56.13	52.70	49.15	46.72	44.01	42.29
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	40.85	38.91	37.75	36.48	35.04	33.32	32.11	30.78	29.50
45.0	44.01	42.29	40.80	39.25	37.53	36.15	34.37	33.10	31.83
90.0	44.62	42.84	40.68	39.25	37.75	35.70	34.26	32.82	31.11
135.0	45.61	43.90	42.29	40.57	38.80	37.20	35.65	34.26	32.38
180.0	46.88	44.39	42.84	41.29	39.80	38.14	36.70	35.20	33.49
225.0	44.78	42.79	41.24	39.36	38.08	36.64	34.87	33.54	32.16
270.0	48.10	45.94	43.84	42.12	40.24	38.86	37.31	35.76	33.99
315.0	43.90	41.90	40.35	38.91	37.70	35.76	34.32	32.99	31.72
360.0	40.85	38.91	37.75	36.48	35.04	33.32	32.11	30.78	29.50
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	28.17	27.29	26.24	25.24	24.41	23.69	22.69	21.98	21.37
45.0	30.22	29.12	28.17	26.96	26.02	25.19	24.41	23.53	22.86
90.0	29.89	28.84	27.40	26.40	25.46	24.36	23.47	22.64	21.86
135.0	31.05	29.95	28.51	27.34	26.18	25.24	24.36	23.47	22.47
180.0	31.99	30.28	29.17	28.06	26.74	25.79	24.96	24.13	23.14
225.0	30.78	29.28	28.23	27.18	26.24	25.13	24.36	23.53	22.58
270.0	32.49	31.05	29.84	28.45	27.40	26.40	25.30	24.47	23.64
315.0	30.28	28.84	27.84	26.51	25.63	24.80	23.75	22.92	22.20
360.0	28.17	27.29	26.24	25.24	24.41	23.69	22.69	21.98	21.37
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	20.54	19.98	19.48	18.99	18.38	17.93	17.44	16.94	16.38
45.0	22.14	21.53	20.81	20.20	19.65	18.93	18.32	17.60	16.99
90.0	20.98	20.31	19.65	19.10	18.38	17.82	17.16	16.66	16.16
135.0	21.64	20.92	20.20	19.43	18.88	18.27	17.60	17.10	16.61
180.0	22.31	21.59	20.87	19.98	19.43	18.88	18.38	17.77	17.21
225.0	21.81	20.98	20.37	19.76	19.21	18.54	18.05	17.55	17.05
270.0	22.58	21.81	20.98	20.26	19.65	18.99	18.27	17.66	17.10
315.0	21.26	20.59	19.93	19.26	18.54	17.93	17.38	16.88	16.27
360.0	20.54	19.98	19.48	18.99	18.38	17.93	17.44	16.94	16.38
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	15.89	15.33	14.83	14.45	13.84	13.12	12.90	12.57	12.62
45.0	16.50	15.83	15.28	14.83	14.34	13.45	13.12	12.68	12.40
90.0	15.67	15.22	14.67	14.28	13.51	13.17	12.84	12.45	12.34
135.0	16.05	15.55	15.00	14.56	13.95	13.51	13.12	12.79	12.40
180.0	16.77	16.44	15.83	15.39	14.89	14.00	13.40	13.01	12.73
225.0	16.44	15.78	15.39	14.78	14.34	13.45	13.12	12.79	12.45
270.0	16.66	16.00	15.44	14.89	14.39	13.95	13.34	12.95	12.73
315.0	15.83	15.28	14.83	14.39	13.95	13.56	13.12	12.73	12.45
360.0	15.89	15.33	14.83	14.45	13.84	13.12	12.90	12.57	12.62

Intensity data(cd)

C/ γ (°)	90.0
0.0	12.51
45.0	12.34
90.0	12.40
135.0	12.45
180.0	12.40
225.0	12.40
270.0	12.34
315.0	12.34
360.0	12.51