



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: 1-1378-L

Luminaire: 92.70.427.00

Report No: 20231123-B003

Ballast type: AC

Test No: 20231123-C003

Voltage(V): 34.530

LampCAT: LUMINUS CXM-9-AC40

Current(A): 0.331

Lamp flux(lm): 1706.1

Power (W): 11.429

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1548.61, Efficiency(%): 90.77% , Luminous Efficacy(lm/W): 135.50

Central intensity(cd): 5259.976, Maximum intensity(cd): 5259.976

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=26.8

[C90/270]Total=26.8

Field angle(10%Imax): [C0/180]Total=55.2

[C90/270]Total=55.2

Maximum s/h(1/2): C0_180=0.45 C90_270=0.45

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(%): 90.77%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.016%

Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/11/23
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	5259.976	0.000	0	0.00%	0.00%
1.0	5231.607	5.020	5.02	0.29%	0.32%
2.0	5161.446	14.917	19.937	0.87%	1.29%
3.0	5046.795	24.415	44.352	1.43%	2.86%
4.0	4902.184	33.302	77.654	1.95%	5.01%
5.0	4716.611	41.380	119.034	2.43%	7.69%
6.0	4511.803	48.498	167.532	2.84%	10.82%
7.0	4293.087	54.652	222.183	3.20%	14.35%
8.0	4040.674	59.643	281.827	3.50%	18.20%
9.0	3781.343	63.393	345.22	3.72%	22.29%
10.0	3537.510	66.233	411.453	3.88%	26.57%
11.0	3259.358	67.915	479.367	3.98%	30.95%
12.0	2992.900	68.346	547.713	4.01%	35.37%
13.0	2725.334	67.861	615.575	3.98%	39.75%
14.0	2473.199	66.541	682.115	3.90%	44.05%
15.0	2247.287	64.805	746.92	3.80%	48.23%
16.0	2018.815	62.510	809.431	3.66%	52.27%
17.0	1814.076	59.688	869.119	3.50%	56.12%
18.0	1628.365	56.758	925.877	3.33%	59.79%
19.0	1427.735	53.170	979.047	3.12%	63.22%
20.0	1278.668	49.535	1028.582	2.90%	66.42%
21.0	1165.477	46.933	1075.514	2.75%	69.45%
22.0	1058.091	44.684	1120.198	2.62%	72.34%
23.0	942.783	41.984	1162.182	2.46%	75.05%
24.0	842.952	39.043	1201.224	2.29%	77.57%
25.0	741.261	36.022	1237.246	2.11%	79.89%
26.0	653.491	32.923	1270.169	1.93%	82.02%
27.0	569.706	29.926	1300.095	1.75%	83.95%
28.0	491.886	26.877	1326.972	1.58%	85.69%
29.0	420.590	23.873	1350.845	1.40%	87.23%
30.0	353.613	20.903	1371.748	1.23%	88.58%
31.0	297.775	18.127	1389.876	1.06%	89.75%
32.0	256.329	15.874	1405.75	0.93%	90.78%
33.0	221.221	14.069	1419.819	0.82%	91.68%
34.0	182.466	12.217	1432.036	0.72%	92.47%
35.0	140.854	10.041	1442.077	0.59%	93.12%
36.0	117.626	8.230	1450.307	0.48%	93.65%
37.0	97.727	7.024	1457.33	0.41%	94.11%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	81.868	5.995	1463.325	0.35%	94.49%
39.0	69.379	5.162	1468.487	0.30%	94.83%
40.0	59.837	4.507	1472.994	0.26%	95.12%
41.0	52.600	4.004	1476.998	0.23%	95.38%
42.0	46.525	3.601	1480.599	0.21%	95.61%
43.0	41.882	3.275	1483.874	0.19%	95.82%
44.0	38.173	3.022	1486.896	0.18%	96.02%
45.0	34.921	2.809	1489.705	0.16%	96.20%
46.0	32.223	2.626	1492.331	0.15%	96.37%
47.0	29.746	2.465	1494.795	0.14%	96.53%
48.0	27.628	2.319	1497.115	0.14%	96.67%
49.0	25.684	2.189	1499.304	0.13%	96.82%
50.0	24.017	2.072	1501.376	0.12%	96.95%
51.0	22.446	1.966	1503.342	0.12%	97.08%
52.0	21.131	1.870	1505.212	0.11%	97.20%
53.0	19.976	1.788	1507	0.10%	97.31%
54.0	18.889	1.713	1508.713	0.10%	97.42%
55.0	18.031	1.648	1510.361	0.10%	97.53%
56.0	17.208	1.592	1511.953	0.09%	97.63%
57.0	16.571	1.544	1513.498	0.09%	97.73%
58.0	15.907	1.502	1515	0.09%	97.83%
59.0	15.354	1.461	1516.461	0.09%	97.92%
60.0	14.862	1.428	1517.889	0.08%	98.02%
61.0	14.378	1.395	1519.284	0.08%	98.11%
62.0	13.935	1.364	1520.648	0.08%	98.19%
63.0	13.513	1.335	1521.983	0.08%	98.28%
64.0	13.098	1.306	1523.289	0.08%	98.37%
65.0	12.717	1.278	1524.567	0.07%	98.45%
66.0	12.344	1.250	1525.817	0.07%	98.53%
67.0	11.970	1.223	1527.04	0.07%	98.61%
68.0	11.610	1.195	1528.234	0.07%	98.68%
69.0	11.278	1.168	1529.402	0.07%	98.76%
70.0	10.939	1.141	1530.543	0.07%	98.83%
71.0	10.614	1.114	1531.657	0.07%	98.91%
72.0	10.282	1.087	1532.744	0.06%	98.98%
73.0	9.998	1.061	1533.804	0.06%	99.04%
74.0	9.701	1.036	1534.84	0.06%	99.11%
75.0	9.431	1.011	1535.851	0.06%	99.18%

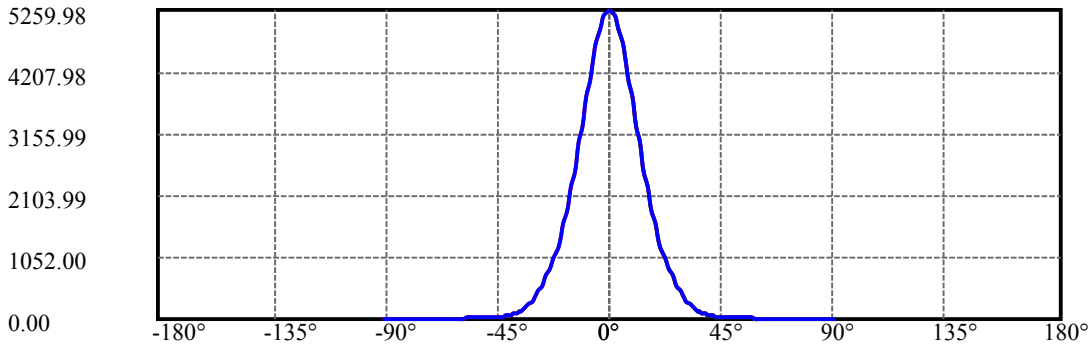
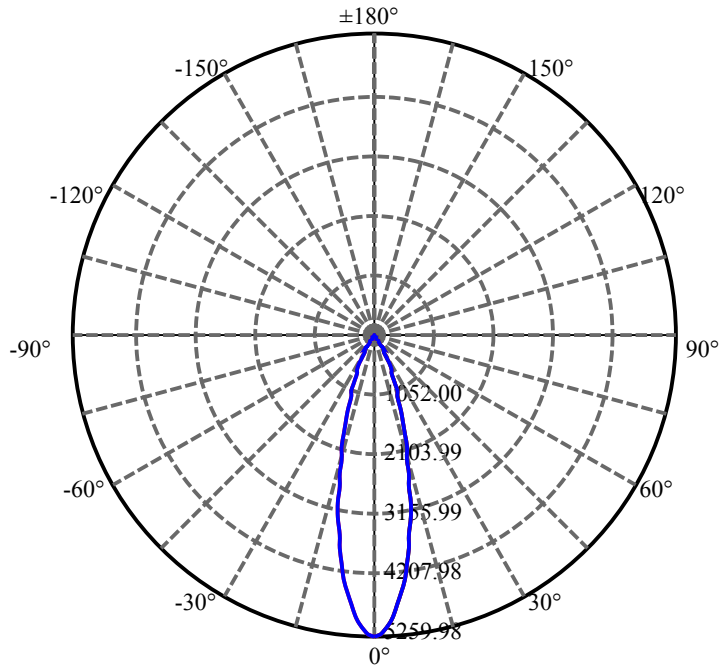
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	9.154	0.987	1536.837	0.06%	99.24%
77.0	8.891	0.962	1537.799	0.06%	99.30%
78.0	8.670	0.940	1538.739	0.06%	99.36%
79.0	8.441	0.919	1539.659	0.05%	99.42%
80.0	8.248	0.900	1540.558	0.05%	99.48%
81.0	8.054	0.882	1541.44	0.05%	99.54%
82.0	7.888	0.864	1542.304	0.05%	99.59%
83.0	7.701	0.847	1543.152	0.05%	99.65%
84.0	7.514	0.829	1543.981	0.05%	99.70%
85.0	7.334	0.810	1544.791	0.05%	99.75%
86.0	7.168	0.793	1545.584	0.05%	99.80%
87.0	7.044	0.778	1546.362	0.05%	99.86%
88.0	6.878	0.763	1547.124	0.04%	99.90%
89.0	6.746	0.747	1547.871	0.04%	99.95%
90.0	6.656	0.735	1548.606	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1371.75	80.40%	88.58%
0-40	1472.99	86.34%	95.12%
0-60	1517.89	88.97%	98.02%
0-90	1547.87	90.73%	99.95%
0-120	1547.87	90.73%	99.95%
0-180	1548.61	90.77%	100.00%
60-90	29.98	1.76%	1.94%
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%
0-25.05	1238.89	72.61%	80.00%

ZONAL LUMEN SUMMARY

0-10	411.45
10-20	617.13
20-30	343.17
30-40	101.25
40-50	28.38
50-60	16.51
60-70	12.65
70-80	10.02
80-90	7.31
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



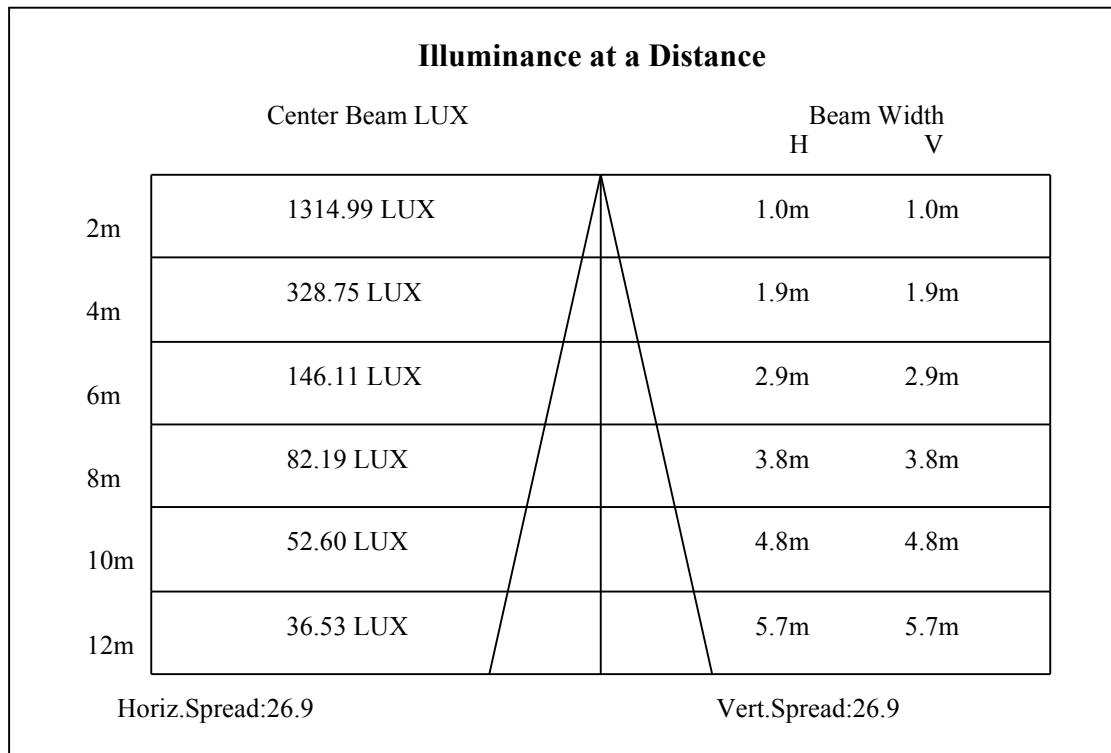
C0(Max): —————

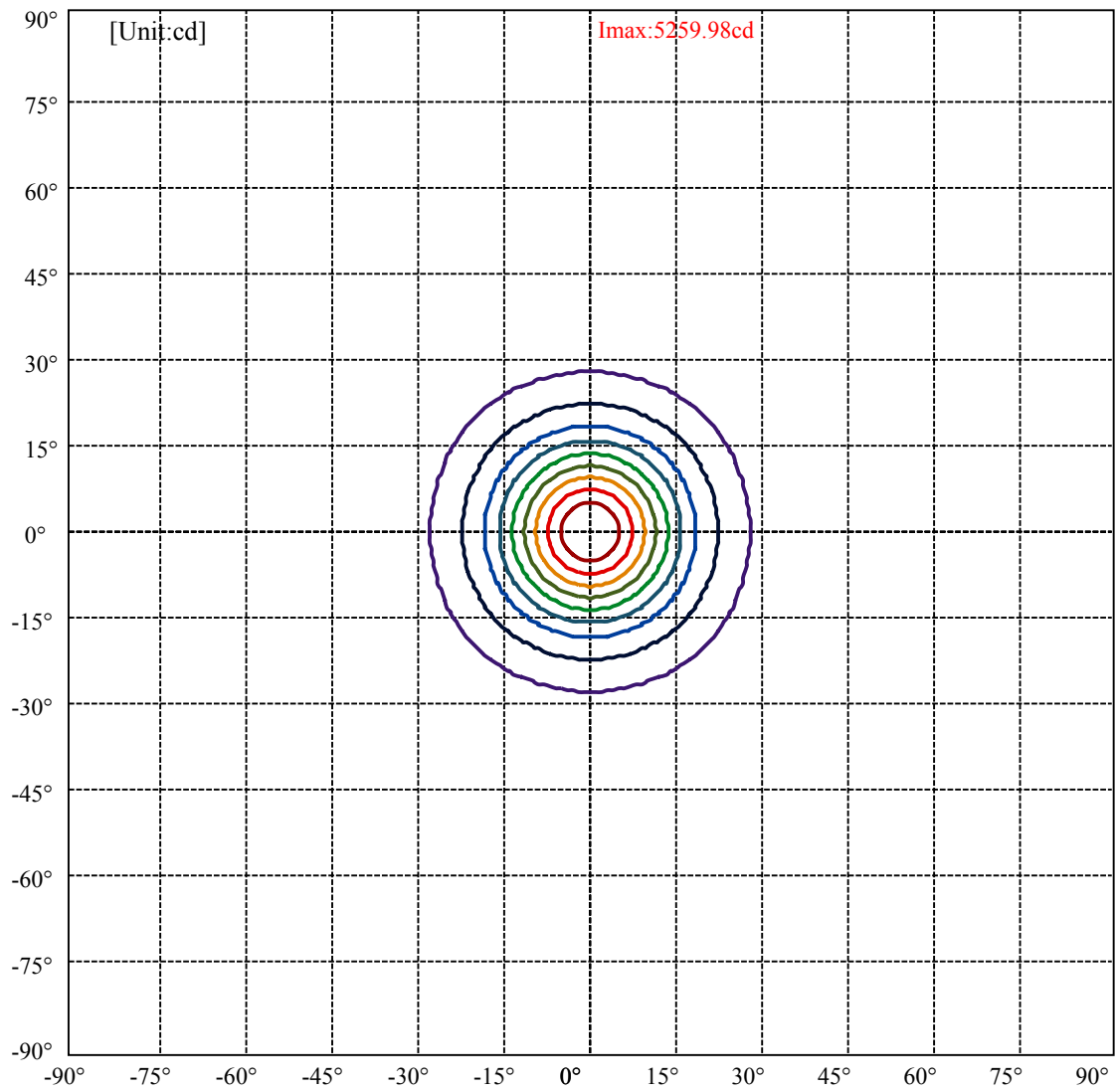
C0/C180: —————

C90/C270: —————

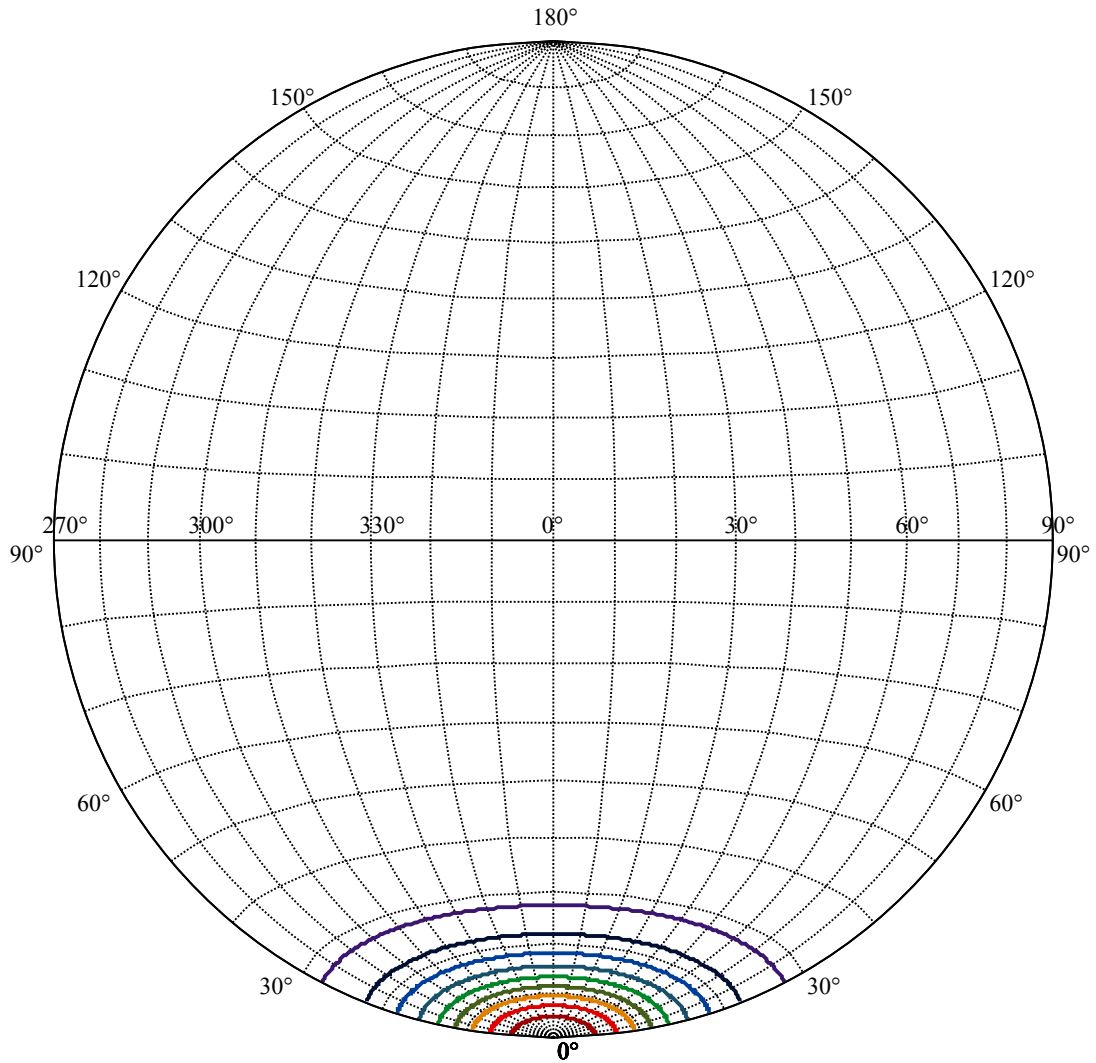
Field angle(10%Imax):C0/180Left:27.6 Right:27.6
:C90/270Left:27.6 Right:27.6

Beam Angle(50%Imax):C0/180Left:13.4 Right:13.4
:C90/270Left:13.4 Right:13.4





(10%Imax) 525.998	—
(20%Imax) 1052	—
(30%Imax) 1577.99	—
(40%Imax) 2103.99	—
(50%Imax) 2629.99	—
(60%Imax) 3155.99	—
(70%Imax) 3681.98	—
(80%Imax) 4207.98	—
(90%Imax) 4733.98	—



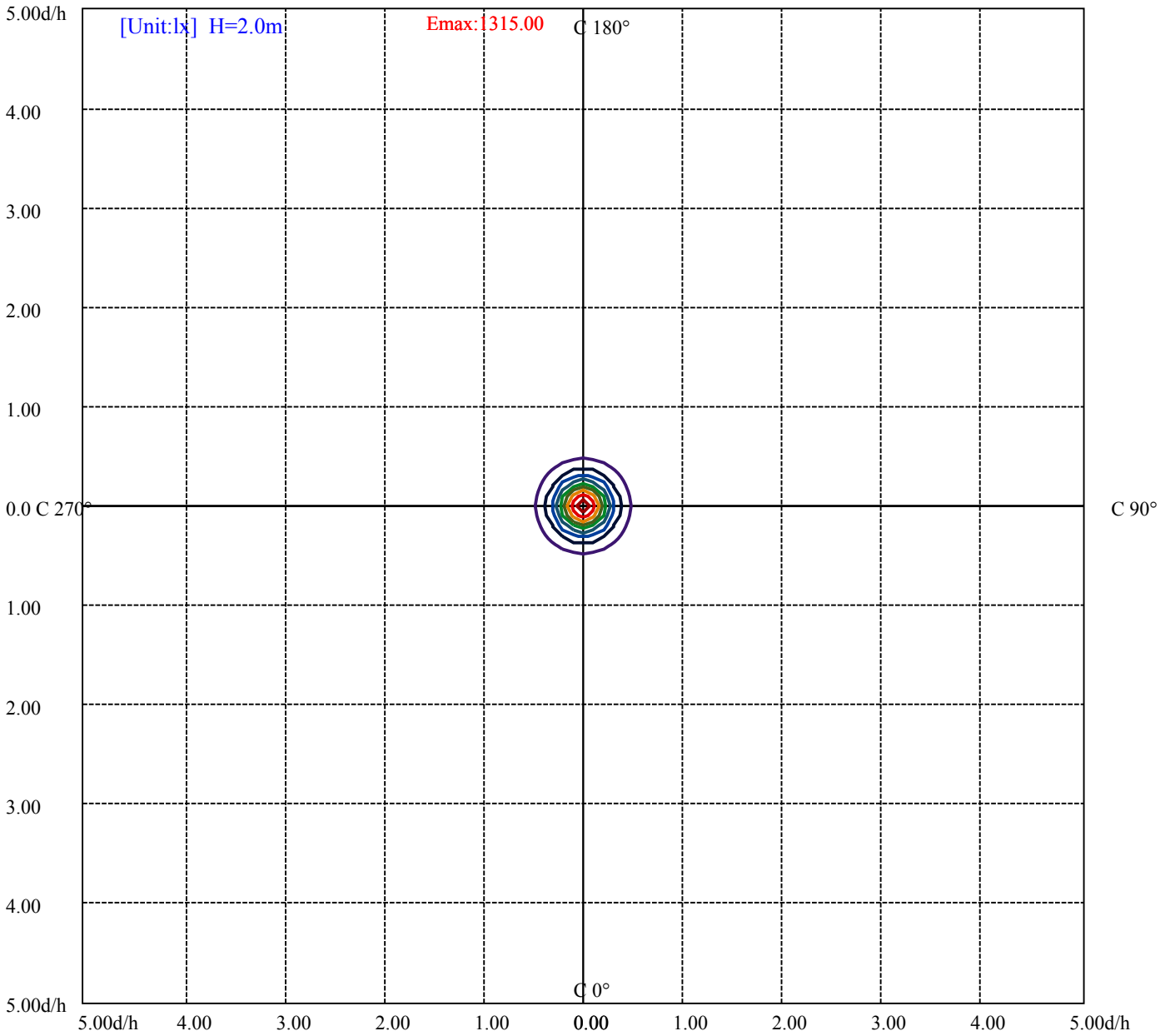
House

[Unit:cd]

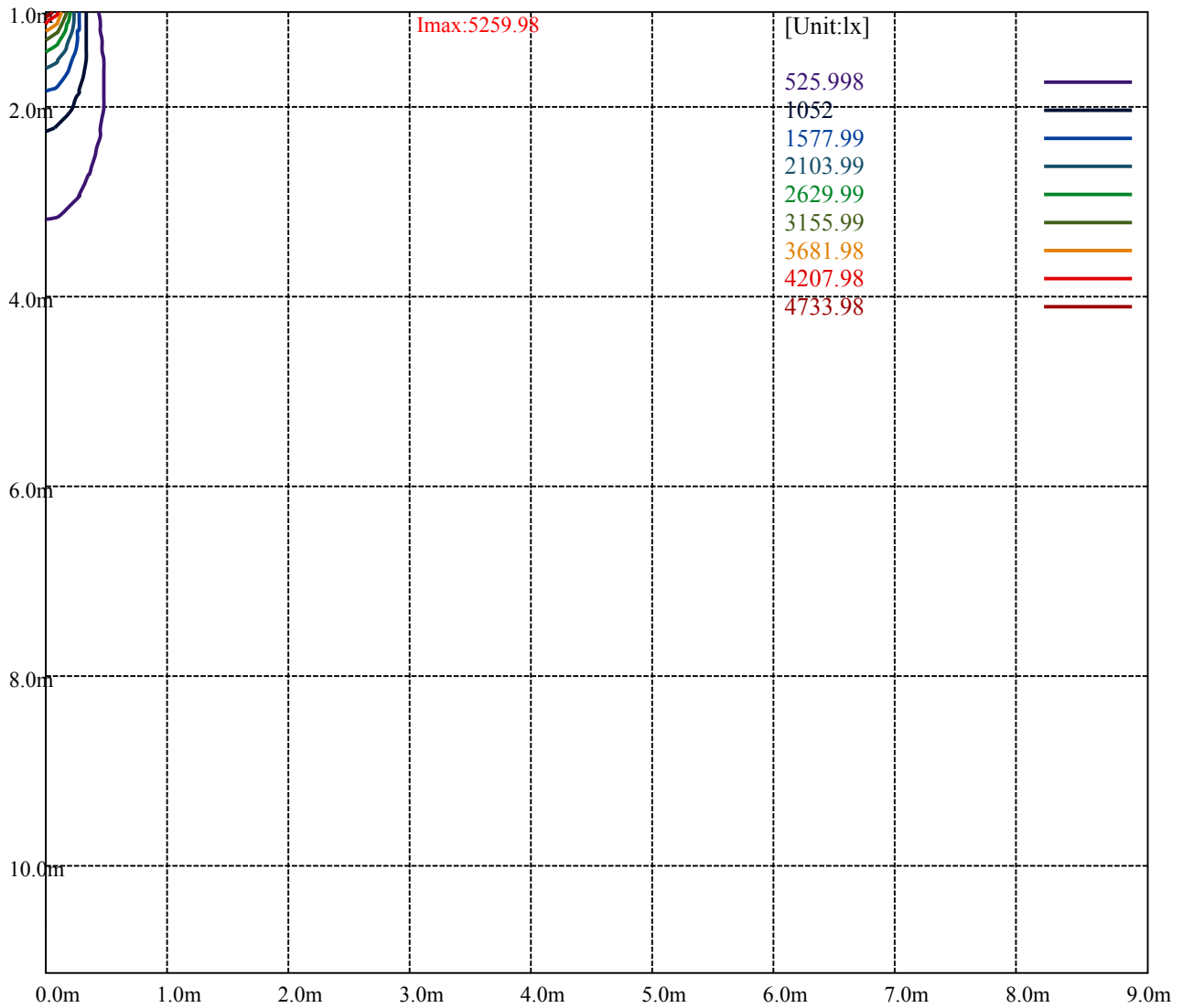
Road

Imax:5259.98

(10%Imax) 525.998	—
(20%Imax) 1052	—
(30%Imax) 1577.99	—
(40%Imax) 2103.99	—
(50%Imax) 2629.99	—
(60%Imax) 3155.99	—
(70%Imax) 3681.98	—
(80%Imax) 4207.98	—
(90%Imax) 4733.98	—



- (10%Emax) 131.4993
- (20%Emax) 262.9975
- (30%Emax) 394.4975
- (40%Emax) 525.9975
- (50%Emax) 657.4975
- (60%Emax) 788.995
- (70%Emax) 920.495
- (80%Emax) 1051.995
- (90%Emax) 1183.493



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

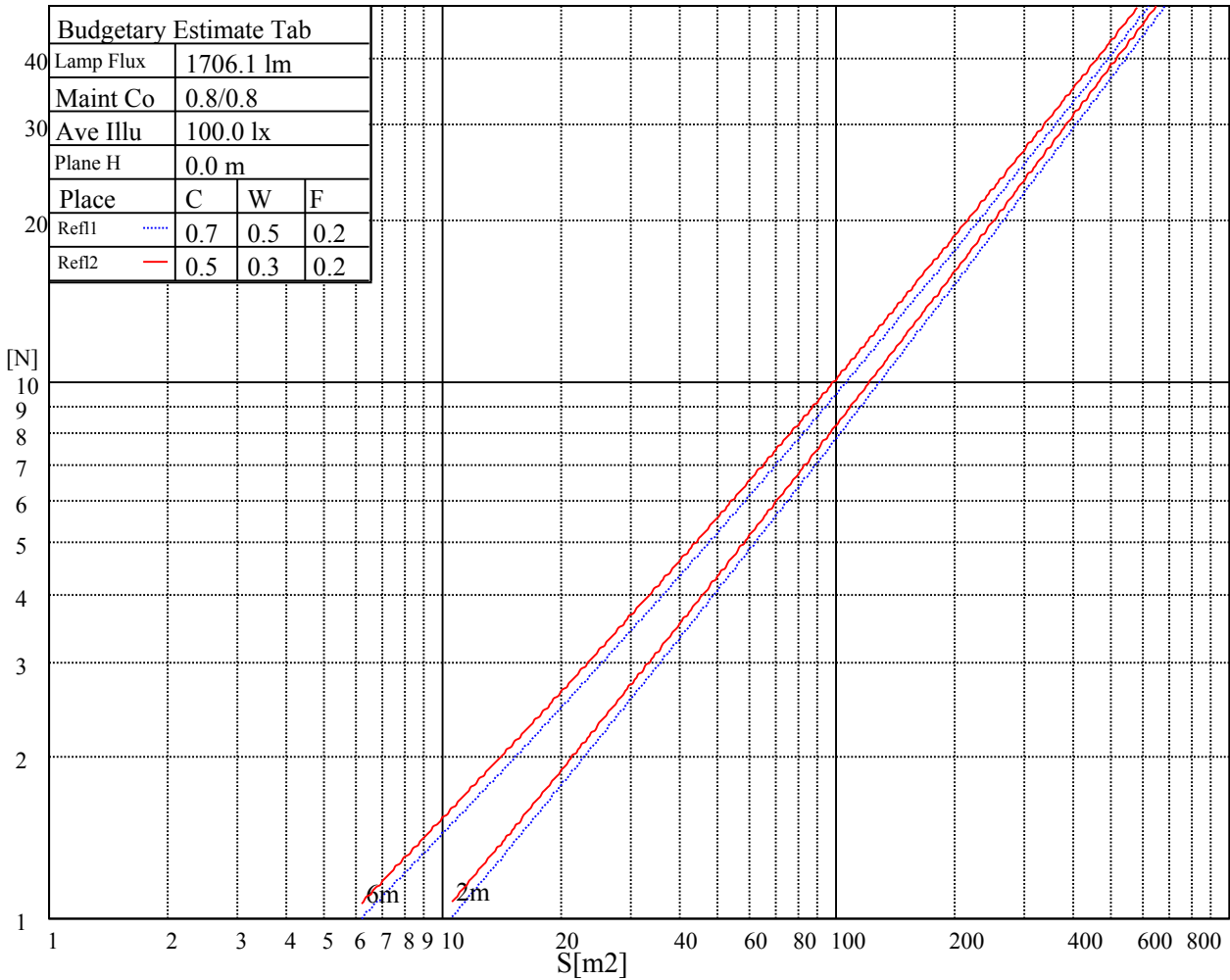
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

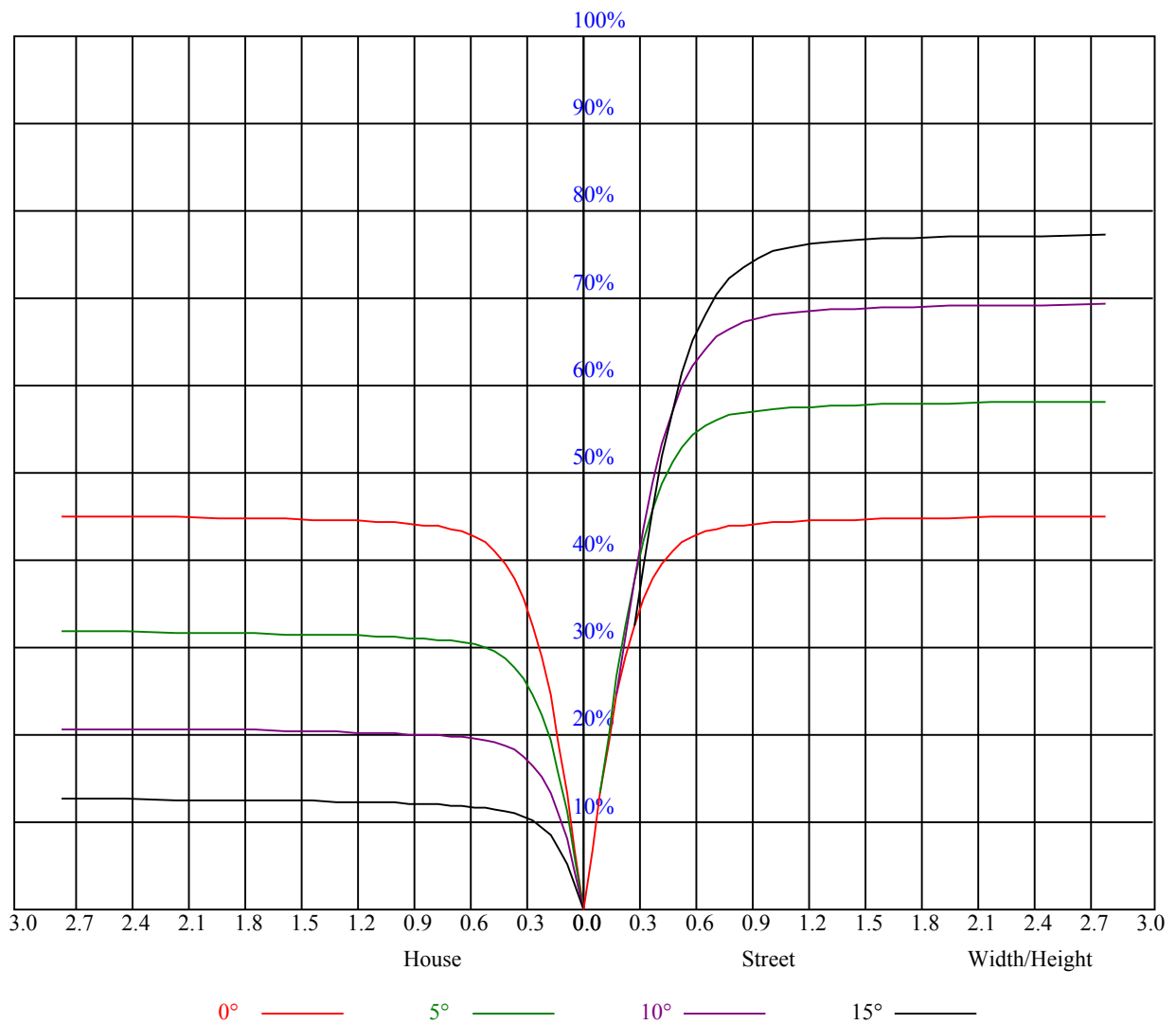


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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	1.06	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	0.98	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	0.93	0.90	0.94	0.91	0.89	0.91	0.89	0.87	0.89	0.87	0.85	0.86	0.85	0.83	0.82
3	0.91	0.87	0.84	0.90	0.86	0.83	0.87	0.84	0.82	0.85	0.83	0.81	0.83	0.81	0.80	0.78
4	0.86	0.82	0.79	0.86	0.82	0.79	0.84	0.80	0.78	0.82	0.79	0.77	0.80	0.78	0.76	0.75
5	0.83	0.78	0.75	0.82	0.78	0.75	0.80	0.77	0.74	0.79	0.76	0.74	0.78	0.75	0.73	0.72
6	0.79	0.75	0.72	0.78	0.74	0.71	0.77	0.74	0.71	0.76	0.73	0.70	0.75	0.72	0.70	0.69
7	0.76	0.72	0.69	0.75	0.71	0.68	0.74	0.71	0.68	0.73	0.70	0.68	0.72	0.70	0.67	0.66
8	0.73	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.65	0.71	0.68	0.65	0.70	0.67	0.65	0.64
9	0.70	0.66	0.63	0.70	0.66	0.63	0.69	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.63	0.62
10	0.68	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.61	0.66	0.63	0.61	0.60



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	5218.74	5100.83	4976.29	4773.14	4575.53	4365.74	4083.44	3855.93	3615.70
45.0	5267.45	5234.79	5166.71	5036.07	4885.51	4707.27	4510.21	4237.87	4004.83
90.0	5258.59	5195.49	5076.48	4941.42	4777.57	4531.80	4318.69	4087.31	3854.27
135.0	5295.13	5284.05	5229.81	5121.32	4990.13	4824.07	4645.83	4441.02	4171.45
180.0	5218.74	5272.98	5281.29	5239.22	5140.14	5030.54	4887.72	4702.84	4454.86
225.0	5267.45	5258.59	5189.95	5093.64	4979.61	4779.78	4587.71	4373.49	4082.88
270.0	5258.59	5275.75	5245.31	5163.94	5058.21	4876.10	4700.07	4511.87	4244.51
315.0	5295.13	5230.36	5125.74	5005.63	4810.78	4617.60	4360.76	4134.36	3896.89
360.0	5218.74	5100.83	4976.29	4773.14	4575.53	4365.74	4083.44	3855.93	3615.70
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3304.61	3047.22	2796.46	2557.89	2272.82	2067.46	1873.17	1691.61	1497.87
45.0	3708.69	3464.03	3219.37	2906.06	2660.85	2428.36	2208.61	1944.02	1759.14
90.0	3553.70	3301.29	3047.77	2795.91	2498.66	2279.46	2017.09	1824.45	1650.64
135.0	3942.28	3700.39	3387.64	3129.69	2816.94	2585.57	2355.85	2089.04	1892.54
180.0	4235.10	4010.37	3709.80	3458.49	3201.65	2886.14	2644.80	2413.42	2146.61
225.0	3842.65	3606.29	3302.40	3053.30	2803.66	2511.39	2285.55	2074.10	1878.15
270.0	4010.37	3771.79	3524.92	3208.85	2951.45	2711.22	2481.50	2199.20	1997.16
315.0	3653.34	3398.71	3086.52	2833.00	2596.64	2315.99	2111.74	1914.68	1690.50
360.0	3304.61	3047.22	2796.46	2557.89	2272.82	2067.46	1873.17	1691.61	1497.87
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1357.27	1081.28	1081.28	973.67	875.03	761.72	675.70	597.32	504.88
45.0	1595.84	1445.84	1273.69	1149.14	1037.33	906.69	811.48	700.78	617.75
90.0	1455.80	1097.66	1097.66	1068.77	930.72	826.54	733.60	649.46	555.31
135.0	1715.96	1562.08	1384.39	1254.87	1136.41	1024.04	898.39	804.29	715.72
180.0	1949.00	1761.91	1593.63	1404.87	1269.26	1149.14	1041.75	913.89	819.23
225.0	1654.52	1495.65	1256.53	1104.14	1077.29	971.46	871.32	756.02	671.66
270.0	1768.55	1596.95	1442.51	1268.70	1146.37	1035.11	932.71	812.59	724.58
315.0	1529.97	1380.52	1099.65	1099.65	992.32	867.56	778.66	695.74	618.80
360.0	1357.27	1081.28	1081.28	973.67	875.03	761.72	675.70	597.32	504.88
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	435.30	372.59	318.01	257.95	217.10	182.33	152.28	121.61	101.91
45.0	539.70	468.29	385.81	331.01	281.75	281.75	188.92	159.14	133.46
90.0	480.64	412.99	354.26	291.55	247.38	200.71	169.38	142.20	114.19
135.0	609.44	533.61	461.10	380.83	325.48	287.29	287.29	184.77	155.32
180.0	730.11	625.50	547.45	456.11	389.14	331.01	280.64	280.64	187.15
225.0	592.39	500.51	431.26	368.93	303.12	256.90	216.76	182.83	147.90
270.0	644.87	566.82	477.15	410.17	348.73	284.52	284.52	229.22	159.03
315.0	525.19	454.79	389.69	332.34	269.52	226.12	189.97	159.31	127.87
360.0	435.30	372.59	318.01	257.95	217.10	182.33	152.28	121.61	101.91
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	85.91	70.52	60.89	51.92	46.28	41.90	38.42	34.65	32.05
45.0	106.94	89.89	76.44	65.48	55.24	49.21	44.34	39.74	36.70
90.0	96.59	82.14	70.30	59.12	52.42	47.05	42.62	38.19	35.26
135.0	129.97	104.56	88.34	75.39	65.32	55.85	50.15	45.39	41.57
180.0	156.93	131.24	105.34	88.95	75.83	65.43	55.58	49.32	44.45
225.0	124.05	104.40	88.40	72.29	62.22	54.41	46.83	42.23	37.75
270.0	133.24	111.98	90.72	77.55	66.76	58.34	50.32	45.33	41.35
315.0	107.39	87.07	74.51	64.32	54.63	48.60	43.95	40.19	36.26
360.0	85.91	70.52	60.89	51.92	46.28	41.90	38.42	34.65	32.05

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	29.84	27.79	25.57	24.02	22.64	21.37	19.93	18.99	17.99
45.0	33.43	31.11	28.95	27.01	24.85	23.36	21.92	20.76	19.43
90.0	32.60	29.78	27.73	25.96	23.97	22.58	20.98	19.93	18.99
135.0	37.59	34.71	31.61	29.34	27.29	25.13	23.53	22.14	20.92
180.0	39.63	36.59	33.21	30.83	28.73	26.40	24.69	23.25	21.92
225.0	34.76	32.16	29.84	27.34	25.57	23.97	22.58	20.98	19.87
270.0	38.03	34.54	32.05	29.84	27.40	25.74	24.13	22.36	21.09
315.0	33.49	31.11	29.01	26.68	25.02	23.58	21.81	20.65	19.60
360.0	29.84	27.79	25.57	24.02	22.64	21.37	19.93	18.99	17.99
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	17.21	16.61	15.89	15.39	14.89	14.34	13.95	13.56	13.17
45.0	18.54	17.77	16.94	16.38	15.78	15.17	14.67	14.28	13.78
90.0	18.16	17.21	16.55	15.94	15.44	14.83	14.45	14.00	13.62
135.0	19.65	18.71	17.93	17.21	16.44	15.94	15.33	14.78	14.34
180.0	20.48	19.43	18.54	17.71	16.88	16.27	15.78	15.11	14.61
225.0	18.88	18.05	17.10	16.50	15.78	15.28	14.78	14.28	13.89
270.0	19.76	18.82	17.93	17.21	16.44	15.89	15.39	14.89	14.34
315.0	18.43	17.66	16.77	16.22	15.61	15.11	14.56	14.12	13.73
360.0	17.21	16.61	15.89	15.39	14.89	14.34	13.95	13.56	13.17
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	12.79	12.45	12.07	11.73	11.35	11.07	10.74	10.35	10.07
45.0	13.40	13.01	12.68	12.23	11.85	11.51	11.24	10.85	10.52
90.0	13.12	12.84	12.34	12.01	11.62	11.24	10.96	10.63	10.30
135.0	13.84	13.45	13.06	12.62	12.29	11.96	11.57	11.24	10.90
180.0	14.23	13.67	13.34	12.95	12.57	12.23	11.85	11.51	11.13
225.0	13.51	13.01	12.62	12.34	11.96	11.57	11.24	10.90	10.68
270.0	13.95	13.51	13.12	12.68	12.34	11.90	11.57	11.29	10.90
315.0	13.28	12.84	12.51	12.18	11.79	11.40	11.07	10.74	10.41
360.0	12.79	12.45	12.07	11.73	11.35	11.07	10.74	10.35	10.07
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	9.69	9.47	9.19	8.97	8.69	8.47	8.30	8.08	7.86
45.0	10.19	9.91	9.58	9.35	9.02	8.86	8.58	8.36	8.19
90.0	9.96	9.74	9.47	9.19	8.97	8.69	8.52	8.25	8.08
135.0	10.57	10.30	9.96	9.69	9.41	9.13	8.86	8.64	8.41
180.0	10.85	10.52	10.19	9.85	9.58	9.24	9.02	8.80	8.52
225.0	10.30	9.96	9.69	9.41	9.13	8.86	8.64	8.41	8.25
270.0	10.57	10.30	9.96	9.69	9.41	9.13	8.91	8.64	8.47
315.0	10.13	9.80	9.58	9.30	9.02	8.75	8.52	8.36	8.19
360.0	9.69	9.47	9.19	8.97	8.69	8.47	8.30	8.08	7.86
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	7.75	7.58	7.36	7.25	7.09	6.97	6.86	6.59	6.64
45.0	7.97	7.80	7.64	7.36	7.20	7.09	6.97	6.86	6.59
90.0	7.92	7.75	7.53	7.42	7.20	7.03	6.92	6.75	6.64
135.0	8.25	8.03	7.86	7.64	7.47	7.31	7.14	6.97	6.86
180.0	8.30	8.19	7.97	7.80	7.58	7.42	7.25	7.09	6.92
225.0	8.03	7.86	7.75	7.47	7.36	7.14	7.09	6.86	6.81
270.0	8.25	8.08	7.86	7.69	7.47	7.31	7.14	6.97	6.92
315.0	7.97	7.80	7.64	7.47	7.31	7.09	6.97	6.92	6.59
360.0	7.75	7.58	7.36	7.25	7.09	6.97	6.86	6.59	6.64

Intensity data(cd)

C/ γ ($^{\circ}$)	90.0
0.0	6.70
45.0	6.64
90.0	6.64
135.0	6.59
180.0	6.81
225.0	6.59
270.0	6.64
315.0	6.64
360.0	6.70