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NATA

Client:

LumCAT: 2-2645-L

Luminaire: 92.70.412.00

Report No: 20231009-B004

Ballast type: AC

Test No: 20231009-C004

Voltage(V): 34.180

LampCAT: BRIDGELUX V13B LES13

Current(A): 0.450

Lamp flux(lm): 2091.1

Power (W): 15.415

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1972.61, Efficiency(%): 94.33% , Luminous Efficacy(lm/W): 127.97

Central intensity(cd): 4468.502, Maximum intensity(cd): 4468.502

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=38.4

[C90/270]Total=38.4

Field angle(10%Imax): [C0/180]Total=62.2

[C90/270]Total=62.2

Maximum s/h(1/2): C0_180=0.63 C90_270=0.63

Maximum s/h(1/4): C0_180=0.61 C90_270=0.61

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 94.33%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.190%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2023/10/09
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.44

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4468.502	0.000	0	0.00%	0.00%
1.0	4457.570	4.271	4.271	0.20%	0.22%
2.0	4427.056	12.752	17.023	0.61%	0.86%
3.0	4381.251	21.067	38.09	1.01%	1.93%
4.0	4316.488	29.114	67.204	1.39%	3.41%
5.0	4243.006	36.822	104.026	1.76%	5.27%
6.0	4157.277	44.146	148.172	2.11%	7.51%
7.0	4058.678	50.996	199.168	2.44%	10.10%
8.0	3960.633	57.393	256.561	2.74%	13.01%
9.0	3856.153	63.351	319.912	3.03%	16.22%
10.0	3753.334	68.863	388.775	3.29%	19.71%
11.0	3639.721	73.872	462.647	3.53%	23.45%
12.0	3520.088	78.267	540.914	3.74%	27.42%
13.0	3377.691	81.859	622.773	3.91%	31.57%
14.0	3229.896	84.577	707.349	4.04%	35.86%
15.0	3060.722	86.360	793.71	4.13%	40.24%
16.0	2884.490	87.114	880.824	4.17%	44.65%
17.0	2674.285	86.565	967.389	4.14%	49.04%
18.0	2481.723	85.011	1052.4	4.07%	53.35%
19.0	2285.633	82.942	1135.342	3.97%	57.56%
20.0	2074.736	79.807	1215.149	3.82%	61.60%
21.0	1874.494	75.833	1290.982	3.63%	65.45%
22.0	1686.707	71.564	1362.546	3.42%	69.07%
23.0	1472.081	66.280	1428.826	3.17%	72.43%
24.0	1305.093	60.719	1489.545	2.90%	75.51%
25.0	1179.848	56.502	1546.047	2.70%	78.38%
26.0	1065.003	52.990	1599.037	2.53%	81.06%
27.0	925.263	48.692	1647.73	2.33%	83.53%
28.0	796.095	43.581	1691.311	2.08%	85.74%
29.0	677.279	38.548	1729.858	1.84%	87.69%
30.0	564.371	33.524	1763.383	1.60%	89.39%
31.0	458.134	28.455	1791.837	1.36%	90.84%
32.0	364.483	23.567	1815.404	1.13%	92.03%
33.0	275.398	18.851	1834.256	0.90%	92.99%
34.0	224.867	15.139	1849.395	0.72%	93.75%
35.0	178.820	12.537	1861.932	0.60%	94.39%
36.0	104.300	9.015	1870.947	0.43%	94.85%
37.0	86.289	6.216	1877.163	0.30%	95.16%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	73.357	5.329	1882.491	0.25%	95.43%
39.0	64.127	4.693	1887.184	0.22%	95.67%
40.0	56.855	4.219	1891.404	0.20%	95.88%
41.0	50.884	3.837	1895.24	0.18%	96.08%
42.0	45.854	3.515	1898.755	0.17%	96.26%
43.0	41.232	3.226	1901.981	0.15%	96.42%
44.0	37.371	2.967	1904.947	0.14%	96.57%
45.0	34.444	2.760	1907.707	0.13%	96.71%
46.0	31.898	2.594	1910.302	0.12%	96.84%
47.0	29.683	2.449	1912.751	0.12%	96.97%
48.0	27.649	2.318	1915.069	0.11%	97.08%
49.0	26.051	2.205	1917.274	0.11%	97.19%
50.0	24.501	2.108	1919.381	0.10%	97.30%
51.0	23.207	2.018	1921.4	0.10%	97.40%
52.0	22.086	1.944	1923.343	0.09%	97.50%
53.0	21.027	1.875	1925.219	0.09%	97.60%
54.0	20.100	1.813	1927.032	0.09%	97.69%
55.0	19.263	1.757	1928.789	0.08%	97.78%
56.0	18.530	1.708	1930.497	0.08%	97.86%
57.0	17.831	1.662	1932.159	0.08%	97.95%
58.0	17.215	1.621	1933.78	0.08%	98.03%
59.0	16.661	1.584	1935.363	0.08%	98.11%
60.0	16.163	1.551	1936.914	0.07%	98.19%
61.0	15.700	1.521	1938.435	0.07%	98.27%
62.0	15.278	1.493	1939.927	0.07%	98.34%
63.0	14.862	1.466	1941.393	0.07%	98.42%
64.0	14.475	1.440	1942.833	0.07%	98.49%
65.0	14.129	1.416	1944.248	0.07%	98.56%
66.0	13.783	1.393	1945.641	0.07%	98.63%
67.0	13.430	1.368	1947.009	0.07%	98.70%
68.0	13.105	1.344	1948.354	0.06%	98.77%
69.0	12.794	1.321	1949.675	0.06%	98.84%
70.0	12.517	1.300	1950.975	0.06%	98.90%
71.0	12.226	1.279	1952.254	0.06%	98.97%
72.0	11.936	1.256	1953.51	0.06%	99.03%
73.0	11.687	1.235	1954.745	0.06%	99.09%
74.0	11.417	1.215	1955.96	0.06%	99.16%
75.0	11.181	1.194	1957.154	0.06%	99.22%

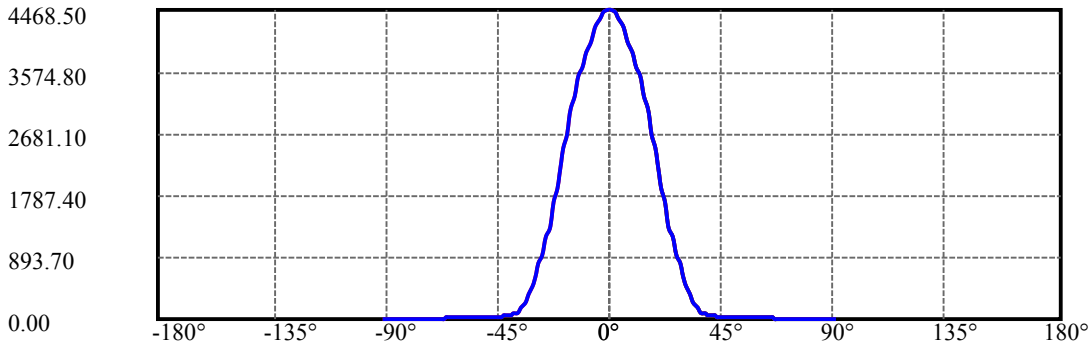
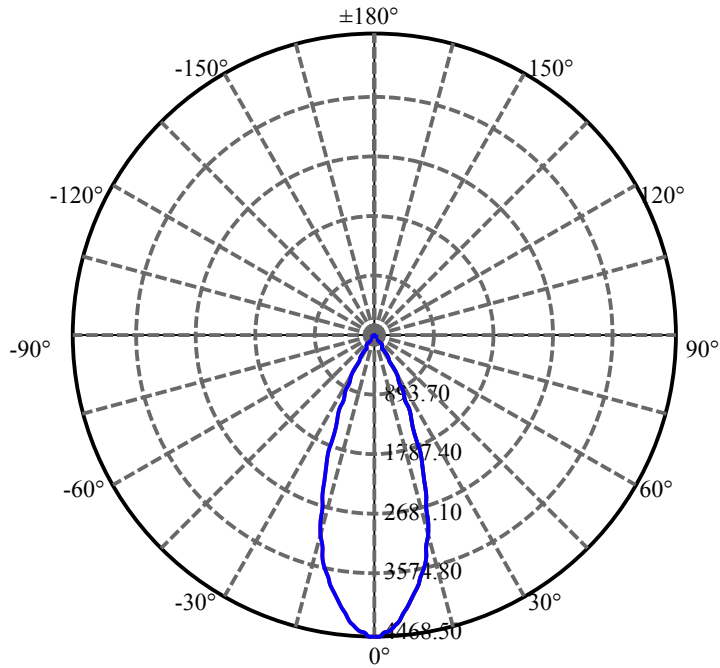
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	10.932	1.174	1958.328	0.06%	99.28%
77.0	10.662	1.151	1959.479	0.06%	99.33%
78.0	10.420	1.129	1960.608	0.05%	99.39%
79.0	10.185	1.107	1961.715	0.05%	99.45%
80.0	9.943	1.085	1962.8	0.05%	99.50%
81.0	9.721	1.063	1963.863	0.05%	99.56%
82.0	9.500	1.042	1964.906	0.05%	99.61%
83.0	9.306	1.022	1965.928	0.05%	99.66%
84.0	9.113	1.003	1966.931	0.05%	99.71%
85.0	8.953	0.986	1967.917	0.05%	99.76%
86.0	8.767	0.969	1968.886	0.05%	99.81%
87.0	8.607	0.951	1969.837	0.05%	99.86%
88.0	8.497	0.937	1970.774	0.04%	99.91%
89.0	8.365	0.924	1971.698	0.04%	99.95%
90.0	8.338	0.916	1972.614	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1763.38	84.33%	89.39%
0-40	1891.40	90.45%	95.88%
0-60	1936.91	92.62%	98.19%
0-90	1971.70	94.29%	99.95%
0-120	1971.70	94.29%	99.95%
0-180	1972.61	94.33%	100.00%
60-90	34.78	1.66%	1.76%
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%
0-25.60	1578.09	75.47%	80.00%

ZONAL LUMEN SUMMARY

0-10	388.77
10-20	826.37
20-30	548.23
30-40	128.02
40-50	27.98
50-60	17.53
60-70	14.06
70-80	11.83
80-90	8.90
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



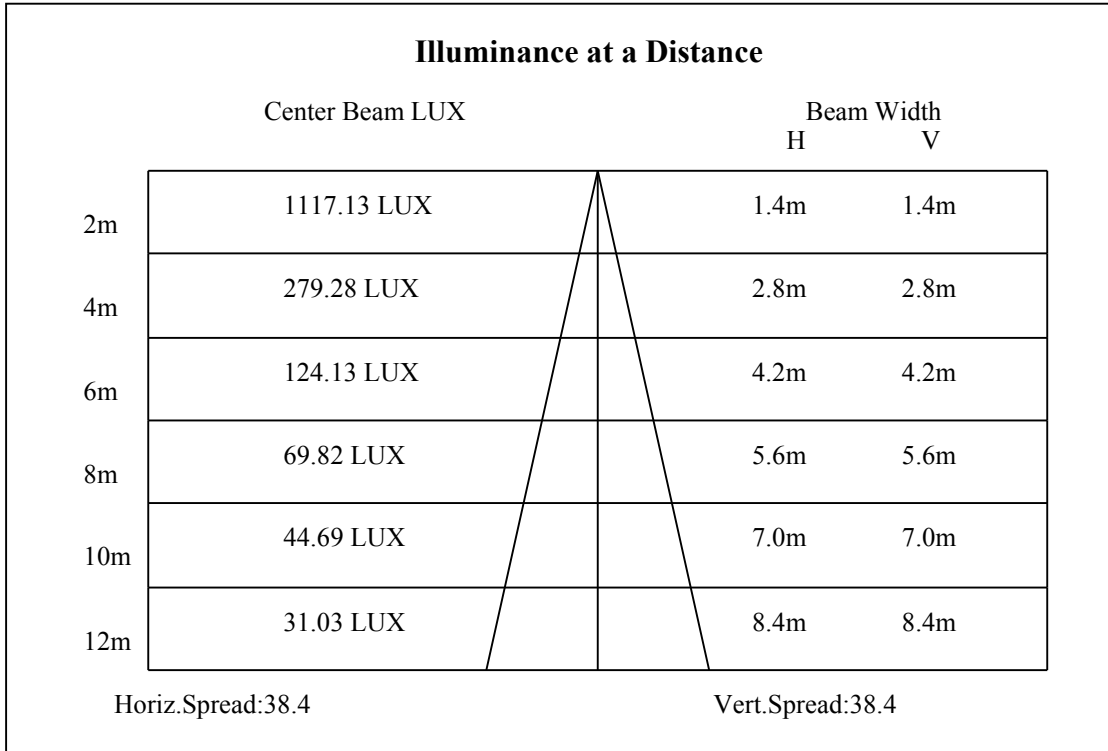
C0(Max): —————

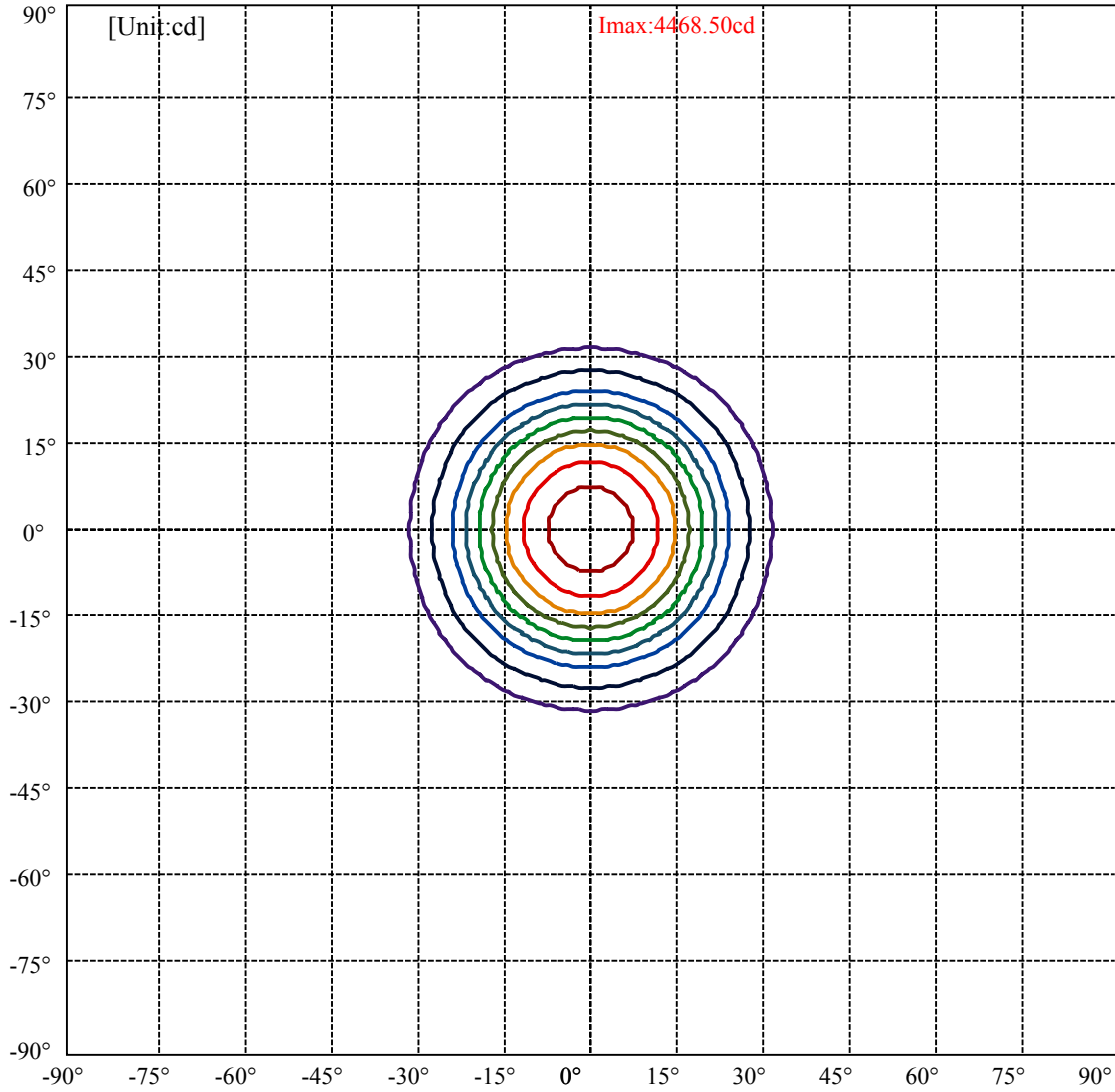
C0/C180: —————

C90/C270: —————

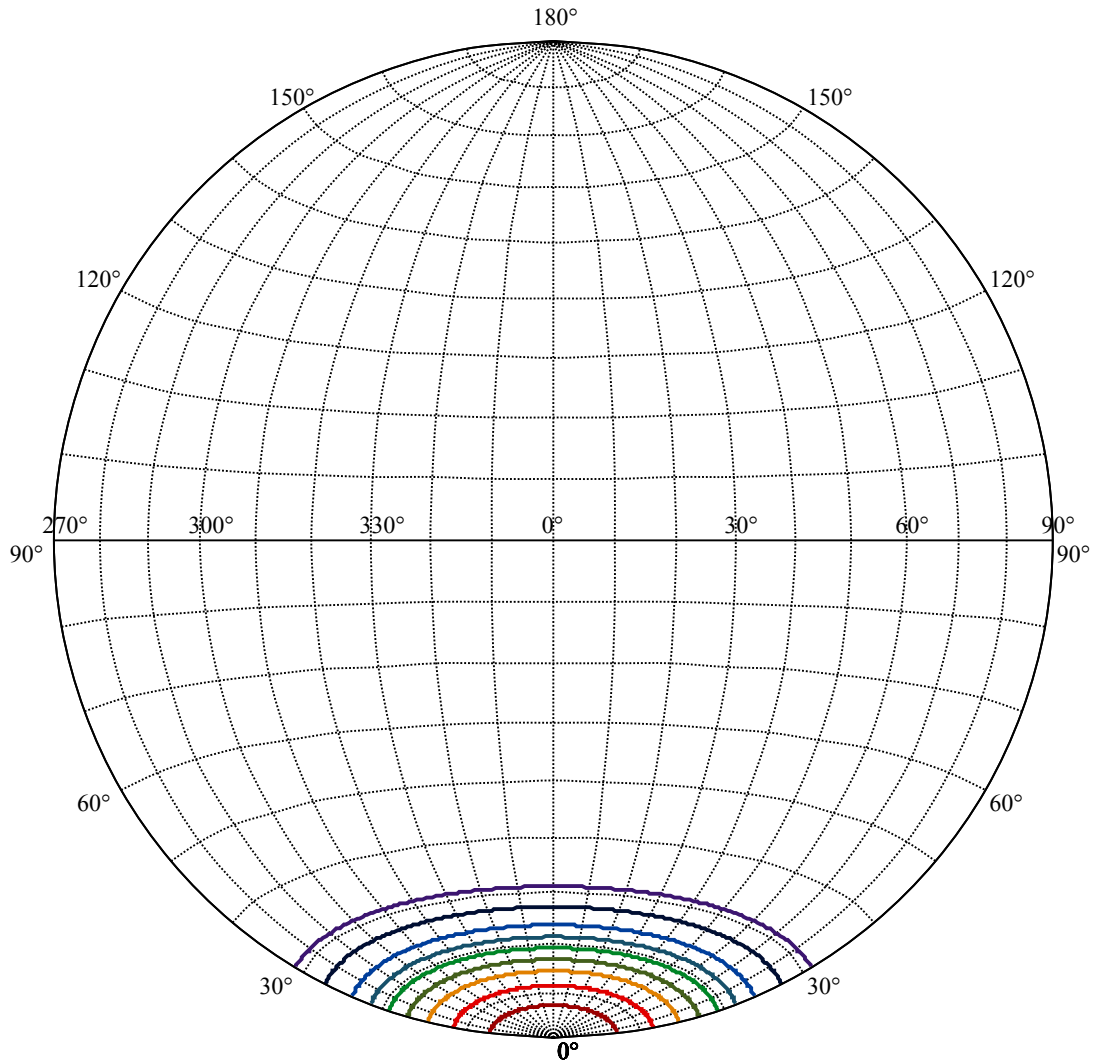
Field angle(10%Imax):C0/180Left:31.1 Right:31.1
:C90/270Left:31.1 Right:31.1

Beam Angle(50%Imax):C0/180Left:19.2 Right:19.2
:C90/270Left:19.2 Right:19.2





(10%Imax) 446.85	—
(20%Imax) 893.7	—
(30%Imax) 1340.55	—
(40%Imax) 1787.4	—
(50%Imax) 2234.25	—
(60%Imax) 2681.1	—
(70%Imax) 3127.95	—
(80%Imax) 3574.8	—
(90%Imax) 4021.65	—



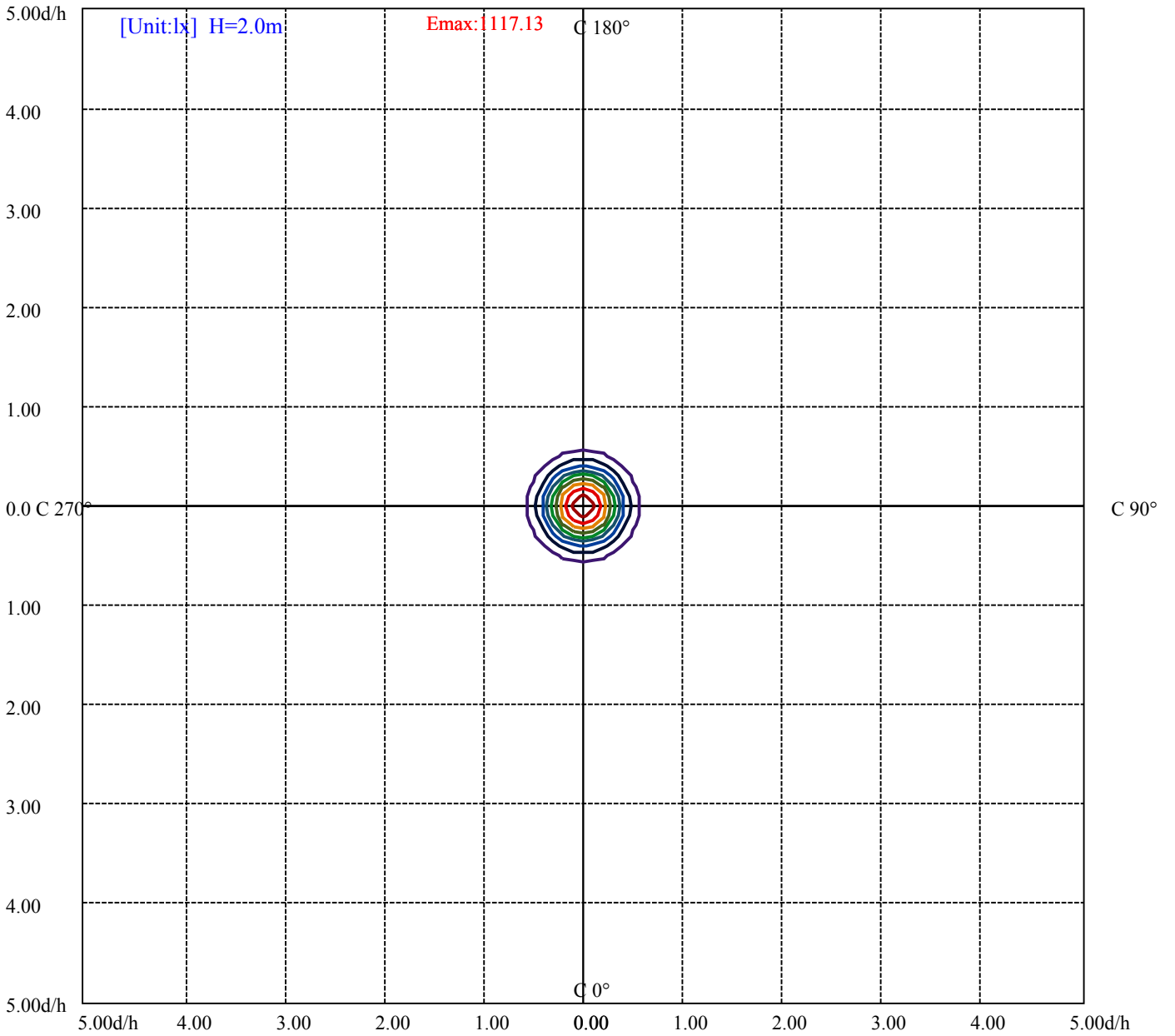
House

[Unit:cd]

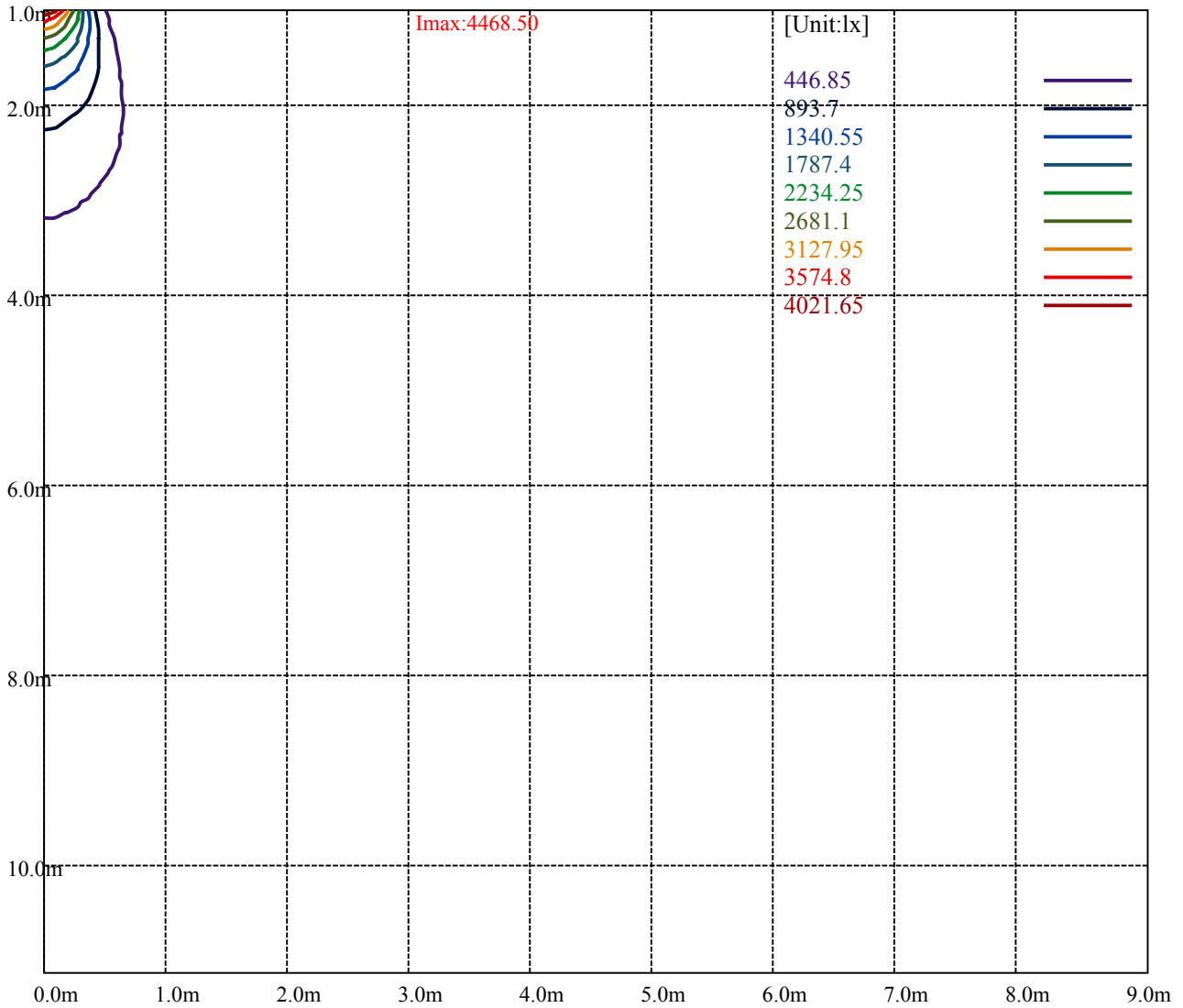
Road

Imax:4468.50

(10%Imax)	446.85	—
(20%Imax)	893.7	—
(30%Imax)	1340.55	—
(40%Imax)	1787.4	—
(50%Imax)	2234.25	—
(60%Imax)	2681.1	—
(70%Imax)	3127.95	—
(80%Imax)	3574.8	—
(90%Imax)	4021.65	—



- (10%E_{max}) 111.7125
- (20%E_{max}) 223.425
- (30%E_{max}) 335.1375
- (40%E_{max}) 446.85
- (50%E_{max}) 558.5625
- (60%E_{max}) 670.275
- (70%E_{max}) 781.9875
- (80%E_{max}) 893.7
- (90%E_{max}) 1005.412



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

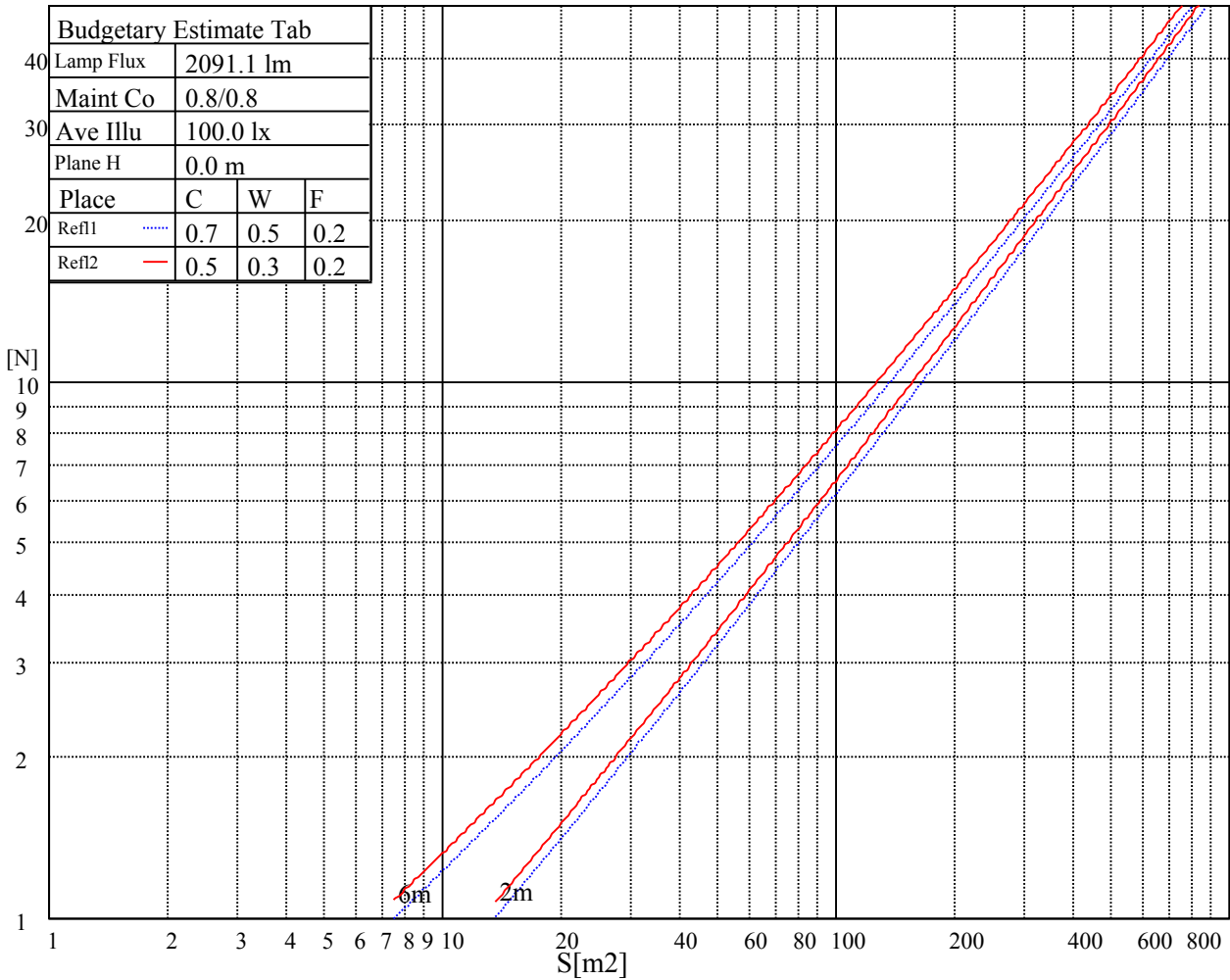
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

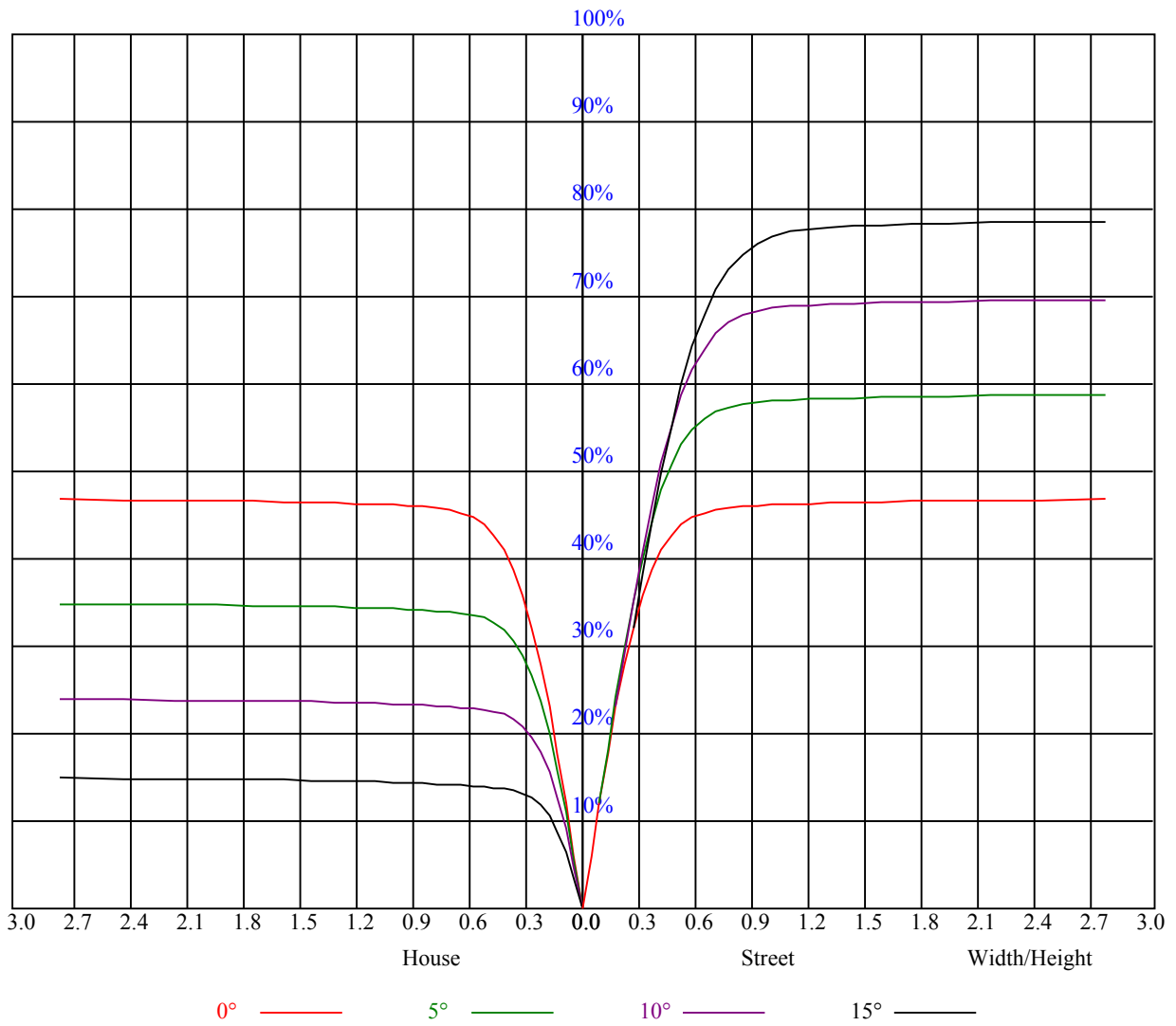


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	3H	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	1.12	1.12	1.12	1.10	1.10	1.10	1.05	1.05	1.05	1.00	1.00	1.00	0.96	0.96	0.96	0.94
1	1.05	1.03	1.01	1.03	1.01	0.99	0.99	0.98	0.96	0.96	0.95	0.94	0.93	0.92	0.91	0.89
2	0.99	0.96	0.93	0.97	0.94	0.92	0.94	0.92	0.90	0.92	0.90	0.88	0.89	0.88	0.86	0.85
3	0.94	0.90	0.86	0.92	0.89	0.86	0.90	0.87	0.84	0.88	0.85	0.83	0.86	0.84	0.82	0.80
4	0.89	0.84	0.81	0.88	0.84	0.81	0.86	0.82	0.80	0.84	0.81	0.79	0.82	0.80	0.78	0.77
5	0.85	0.80	0.77	0.84	0.80	0.76	0.82	0.78	0.76	0.81	0.78	0.75	0.79	0.77	0.74	0.73
6	0.81	0.76	0.73	0.80	0.76	0.72	0.79	0.75	0.72	0.78	0.74	0.71	0.76	0.73	0.71	0.70
7	0.77	0.73	0.69	0.77	0.72	0.69	0.76	0.72	0.69	0.75	0.71	0.68	0.74	0.70	0.68	0.67
8	0.74	0.69	0.66	0.74	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.65	0.71	0.68	0.65	0.64
9	0.71	0.66	0.63	0.71	0.66	0.63	0.70	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	0.60	0.67	0.63	0.60	0.66	0.63	0.60	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	4453.70	4426.02	4387.82	4330.81	4242.80	4176.37	4093.34	4001.46	3881.89
45.0	4472.52	4470.85	4444.84	4416.61	4371.22	4287.63	4212.35	4130.98	4033.01
90.0	4480.82	4451.48	4417.16	4371.77	4284.87	4219.00	4139.84	4034.12	3936.69
135.0	4466.98	4469.75	4444.84	4397.23	4337.45	4267.71	4170.84	4075.63	3995.37
180.0	4453.70	4475.84	4468.64	4438.75	4383.95	4324.17	4250.55	4145.38	4059.02
225.0	4472.52	4444.29	4399.45	4336.90	4271.58	4169.73	4080.06	3980.42	3883.00
270.0	4480.82	4479.16	4447.61	4393.36	4339.67	4273.24	4185.23	4068.43	3978.21
315.0	4466.98	4443.18	4406.09	4364.58	4300.37	4226.19	4126.00	4033.01	3917.87
360.0	4453.70	4426.02	4387.82	4330.81	4242.80	4176.37	4093.34	4001.46	3881.89
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3781.70	3653.84	3532.61	3397.00	3225.95	3073.18	2898.26	2715.04	2480.89
45.0	3937.80	3839.27	3746.28	3602.91	3477.81	3344.41	3194.95	2980.74	2791.43
90.0	3844.81	3747.38	3612.32	3484.45	3342.20	3186.10	2960.26	2762.64	2509.68
135.0	3892.96	3798.31	3690.92	3586.30	3434.64	3285.73	3123.55	2945.31	2704.52
180.0	3941.12	3846.47	3756.24	3650.51	3511.02	3395.33	3254.74	3100.85	2879.44
225.0	3751.81	3651.07	3552.54	3436.85	3284.63	3141.26	2945.86	2784.23	2618.17
270.0	3875.80	3775.06	3642.77	3530.95	3410.83	3254.18	3110.26	2957.49	2748.25
315.0	3823.22	3715.28	3584.09	3471.72	3334.45	3158.97	2997.90	2829.62	2661.90
360.0	3781.70	3653.84	3532.61	3397.00	3225.95	3073.18	2898.26	2715.04	2480.89
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2289.92	2097.29	1905.22	1686.02	1523.28	1262.56	1085.21	1050.45	914.22
45.0	2603.22	2363.54	2156.52	1905.77	1723.10	1548.74	1388.21	1209.42	1078.79
90.0	2305.42	2102.27	1848.75	1666.09	1492.83	1076.63	1076.63	1049.67	939.57
135.0	2510.78	2310.40	2056.88	1862.59	1640.63	1478.44	1330.65	1200.56	1046.13
180.0	2712.82	2519.64	2320.92	2087.33	1904.11	1676.61	1516.08	1372.16	1199.46
225.0	2401.18	2225.71	2045.26	1875.88	1676.05	1521.06	1275.29	1099.27	1062.96
270.0	2594.92	2416.13	2204.12	2040.83	1875.32	1710.92	1514.97	1376.59	1231.56
315.0	2435.50	2250.07	2060.21	1871.45	1658.34	1501.69	1253.70	1080.67	1047.35
360.0	2289.92	2097.29	1905.22	1686.02	1523.28	1262.56	1085.21	1050.45	914.22
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	758.18	648.52	550.38	436.19	347.40	266.08	194.13	129.25	102.07
45.0	949.26	830.25	695.19	593.89	498.13	405.13	295.53	295.53	201.71
90.0	803.90	704.10	607.67	514.35	395.94	306.05	222.69	139.82	100.74
135.0	922.69	810.87	707.36	588.91	496.47	403.47	313.80	292.21	194.96
180.0	1071.04	926.56	805.34	668.06	565.66	470.45	378.01	292.77	292.77
225.0	922.52	787.13	636.18	526.69	428.16	312.80	233.98	169.60	116.30
270.0	1096.50	908.30	777.11	650.35	513.07	417.31	307.71	288.34	288.34
315.0	878.02	753.03	639.00	536.54	420.24	334.56	257.34	191.41	133.68
360.0	758.18	648.52	550.38	436.19	347.40	266.08	194.13	129.25	102.07
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	86.91	75.23	64.10	57.79	52.20	47.22	41.90	38.47	34.87
45.0	102.46	85.02	73.34	63.05	56.79	49.98	45.11	40.91	37.47
90.0	80.37	70.13	62.44	56.24	49.43	44.73	40.57	37.03	33.54
135.0	104.23	82.37	70.80	61.17	55.13	49.54	44.89	39.63	36.26
180.0	134.45	101.52	81.20	69.86	59.84	53.91	48.49	42.51	38.42
225.0	94.65	80.98	70.52	61.00	54.91	49.38	44.56	39.47	36.26
270.0	122.17	101.30	86.07	75.00	64.76	58.18	52.36	47.33	42.12
315.0	109.16	93.77	78.38	68.92	61.77	54.14	48.93	44.50	40.02
360.0	86.91	75.23	64.10	57.79	52.20	47.22	41.90	38.47	34.87

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	32.44	29.84	28.06	26.51	25.19	23.64	22.53	21.59	20.70
45.0	34.10	31.77	29.72	27.90	25.96	24.58	23.41	22.09	21.15
90.0	31.22	29.28	27.51	25.63	24.30	22.81	21.81	20.87	19.82
135.0	33.54	31.22	28.78	27.01	25.46	23.80	22.64	21.59	20.43
180.0	35.04	32.33	29.50	27.62	25.96	24.52	23.03	21.92	20.87
225.0	33.54	30.61	28.67	26.57	25.19	23.91	22.53	21.53	20.65
270.0	38.69	35.76	33.10	30.39	28.51	26.46	25.13	23.80	22.42
315.0	36.98	34.37	32.11	29.56	27.84	26.29	24.58	23.30	22.20
360.0	32.44	29.84	28.06	26.51	25.19	23.64	22.53	21.59	20.70
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	19.65	18.93	18.27	17.60	16.94	16.50	15.89	15.50	15.11
45.0	20.26	19.26	18.54	17.93	17.16	16.61	16.16	15.72	15.17
90.0	19.04	18.38	17.71	16.94	16.44	16.00	15.61	15.06	14.72
135.0	19.60	18.82	17.99	17.44	16.88	16.27	15.83	15.44	15.00
180.0	19.82	19.10	18.38	17.60	17.10	16.44	16.00	15.61	15.22
225.0	19.87	18.99	18.32	17.71	17.21	16.61	16.16	15.72	15.22
270.0	21.42	20.59	19.76	18.88	18.27	17.66	17.10	16.50	16.11
315.0	21.15	20.04	19.26	18.54	17.71	17.21	16.55	16.05	15.67
360.0	19.65	18.93	18.27	17.60	16.94	16.50	15.89	15.50	15.11
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	14.67	14.34	14.00	13.62	13.28	12.95	12.68	12.34	12.07
45.0	14.83	14.50	14.17	13.78	13.45	13.12	12.79	12.51	12.18
90.0	14.39	14.00	13.67	13.40	13.06	12.73	12.40	12.18	11.90
135.0	14.61	14.23	13.89	13.62	13.23	12.95	12.62	12.34	12.12
180.0	14.72	14.39	14.06	13.78	13.40	13.12	12.84	12.62	12.29
225.0	14.83	14.50	14.06	13.73	13.40	13.06	12.79	12.51	12.23
270.0	15.67	15.11	14.78	14.28	13.95	13.62	13.28	12.95	12.62
315.0	15.17	14.72	14.39	14.06	13.67	13.28	12.95	12.68	12.40
360.0	14.67	14.34	14.00	13.62	13.28	12.95	12.68	12.34	12.07
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	11.79	11.57	11.24	11.02	10.74	10.41	10.19	9.96	9.69
45.0	11.90	11.68	11.46	11.18	10.96	10.74	10.52	10.24	10.02
90.0	11.62	11.40	11.18	10.96	10.74	10.46	10.24	10.02	9.80
135.0	11.79	11.57	11.35	11.13	10.85	10.68	10.41	10.24	9.96
180.0	12.07	11.73	11.51	11.29	11.02	10.79	10.63	10.41	10.13
225.0	11.96	11.68	11.46	11.24	10.96	10.68	10.46	10.13	9.91
270.0	12.34	12.07	11.73	11.46	11.24	10.96	10.57	10.35	10.13
315.0	12.01	11.79	11.40	11.18	10.96	10.57	10.35	10.13	9.91
360.0	11.79	11.57	11.24	11.02	10.74	10.41	10.19	9.96	9.69
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	9.52	9.30	9.13	8.97	8.80	8.64	8.47	8.30	8.41
45.0	9.80	9.58	9.35	9.08	8.97	8.80	8.58	8.52	8.25
90.0	9.58	9.41	9.19	9.02	8.86	8.64	8.52	8.41	8.25
135.0	9.74	9.52	9.30	9.13	8.97	8.75	8.64	8.52	8.36
180.0	9.91	9.63	9.47	9.24	9.08	8.86	8.69	8.52	8.41
225.0	9.69	9.52	9.30	9.13	8.97	8.75	8.58	8.47	8.25
270.0	9.85	9.58	9.41	9.24	9.08	8.91	8.75	8.64	8.52
315.0	9.69	9.47	9.30	9.08	8.91	8.80	8.64	8.58	8.47
360.0	9.52	9.30	9.13	8.97	8.80	8.64	8.47	8.30	8.41

Intensity data(cd)

C/γ(°)	90.0
0.0	8.47
45.0	8.19
90.0	8.25
135.0	8.19
180.0	8.25
225.0	8.30
270.0	8.47
315.0	8.58
360.0	8.47