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NT

Client:

LumCAT: 1-1379-L

Luminaire: 92.70.427.00

Report No: 20231120-B013

Ballast type: AC

Test No: 20231120-C013

Voltage(V): 36.520

LampCAT: P2121-018-1203-P3090-1

Current(A): 0.399

Lamp flux(lm): 2085.4

Power (W): 14.571

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

### Photometric Results

Lumens(lm): 1912.48, Efficiency(%): 91.71% , Luminous Efficacy(lm/W): 131.25

Central intensity(cd): 4475.892, Maximum intensity(cd): 4475.892

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

Beam Angle(50%Imax): [C0/180]Total=37.0

[C90/270]Total=37.0

Field angle(10%Imax): [C0/180]Total=60.6

[C90/270]Total=60.6

Maximum s/h(1/2): C0\_180=0.61 C90\_270=0.61

Maximum s/h(1/4): C0\_180=0.58 C90\_270=0.58

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 91.71%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 98.106%

Equipment: GMS1980  
Temperature(°C): 0.0

Date: 2023/11/20  
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	4475.892	0.000	0	0.00%	0.00%
1.0	4475.823	4.283	4.283	0.21%	0.22%
2.0	4472.571	12.844	17.127	0.62%	0.90%
3.0	4469.734	21.387	38.514	1.03%	2.01%
4.0	4452.851	29.867	68.381	1.43%	3.58%
5.0	4405.385	38.108	106.488	1.83%	5.57%
6.0	4338.338	45.951	152.439	2.20%	7.97%
7.0	4250.949	53.314	205.752	2.56%	10.76%
8.0	4136.851	60.030	265.782	2.88%	13.90%
9.0	4015.834	66.073	331.855	3.17%	17.35%
10.0	3879.111	71.446	403.302	3.43%	21.09%
11.0	3729.795	76.029	479.33	3.65%	25.06%
12.0	3565.325	79.746	559.076	3.82%	29.23%
13.0	3379.337	82.416	641.492	3.95%	33.54%
14.0	3183.040	83.998	725.49	4.03%	37.93%
15.0	2986.119	84.693	810.183	4.06%	42.36%
16.0	2782.695	84.529	894.712	4.05%	46.78%
17.0	2547.719	83.009	977.721	3.98%	51.12%
18.0	2340.212	80.591	1058.312	3.86%	55.34%
19.0	2147.512	78.077	1136.39	3.74%	59.42%
20.0	1942.981	74.867	1211.257	3.59%	63.33%
21.0	1726.548	70.462	1281.719	3.38%	67.02%
22.0	1494.146	64.721	1346.441	3.10%	70.40%
23.0	1311.354	58.867	1405.308	2.82%	73.48%
24.0	1181.557	54.504	1459.812	2.61%	76.33%
25.0	1051.165	50.767	1510.579	2.43%	78.99%
26.0	907.066	46.224	1556.803	2.22%	81.40%
27.0	780.998	41.299	1598.102	1.98%	83.56%
28.0	667.225	36.666	1634.768	1.76%	85.48%
29.0	568.827	32.339	1667.106	1.55%	87.17%
30.0	473.771	28.150	1695.256	1.35%	88.64%
31.0	394.616	24.166	1719.422	1.16%	89.91%
32.0	328.261	20.710	1740.132	0.99%	90.99%
33.0	279.065	17.892	1758.024	0.86%	91.92%
34.0	234.485	15.542	1773.565	0.75%	92.74%
35.0	195.253	13.346	1786.912	0.64%	93.43%
36.0	161.266	11.352	1798.263	0.54%	94.03%
37.0	123.909	9.301	1807.564	0.45%	94.51%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	101.588	7.527	1815.091	0.36%	94.91%
39.0	84.885	6.365	1821.456	0.31%	95.24%
40.0	71.330	5.448	1826.904	0.26%	95.53%
41.0	60.702	4.702	1831.605	0.23%	95.77%
42.0	53.001	4.131	1835.736	0.20%	95.99%
43.0	46.352	3.680	1839.417	0.18%	96.18%
44.0	41.474	3.315	1842.731	0.16%	96.35%
45.0	37.571	3.038	1845.769	0.15%	96.51%
46.0	34.243	2.809	1848.578	0.13%	96.66%
47.0	31.448	2.613	1851.19	0.13%	96.80%
48.0	29.254	2.454	1853.644	0.12%	96.92%
49.0	27.393	2.326	1855.971	0.11%	97.05%
50.0	25.649	2.212	1858.182	0.11%	97.16%
51.0	24.106	2.105	1860.287	0.10%	97.27%
52.0	22.875	2.016	1862.303	0.10%	97.38%
53.0	21.775	1.942	1864.246	0.09%	97.48%
54.0	20.744	1.874	1866.12	0.09%	97.58%
55.0	19.803	1.810	1867.929	0.09%	97.67%
56.0	19.049	1.756	1869.685	0.08%	97.76%
57.0	18.329	1.709	1871.394	0.08%	97.85%
58.0	17.637	1.663	1873.057	0.08%	97.94%
59.0	17.028	1.621	1874.678	0.08%	98.02%
60.0	16.509	1.584	1876.262	0.08%	98.11%
61.0	16.046	1.554	1877.816	0.07%	98.19%
62.0	15.610	1.525	1879.341	0.07%	98.27%
63.0	15.118	1.494	1880.836	0.07%	98.35%
64.0	14.724	1.464	1882.3	0.07%	98.42%
65.0	14.378	1.440	1883.74	0.07%	98.50%
66.0	14.032	1.417	1885.158	0.07%	98.57%
67.0	13.665	1.393	1886.55	0.07%	98.64%
68.0	13.361	1.369	1887.92	0.07%	98.72%
69.0	13.084	1.349	1889.269	0.06%	98.79%
70.0	12.807	1.330	1890.598	0.06%	98.86%
71.0	12.531	1.310	1891.908	0.06%	98.92%
72.0	12.233	1.288	1893.196	0.06%	98.99%
73.0	11.936	1.264	1894.46	0.06%	99.06%
74.0	11.659	1.240	1895.7	0.06%	99.12%
75.0	11.389	1.218	1896.918	0.06%	99.19%

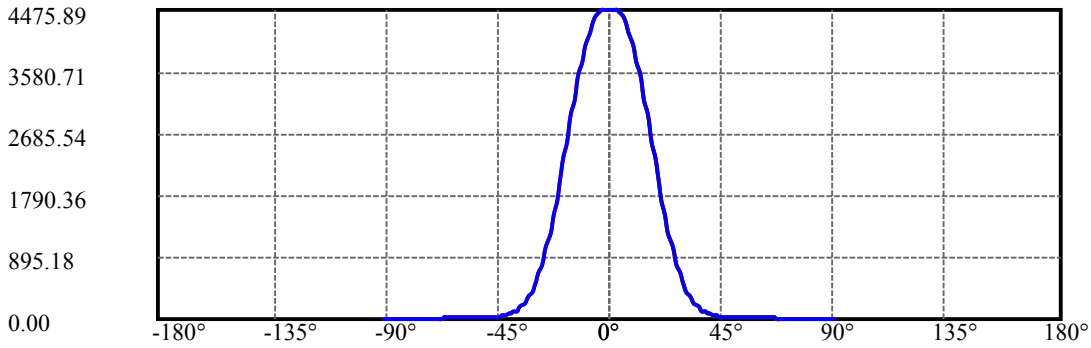
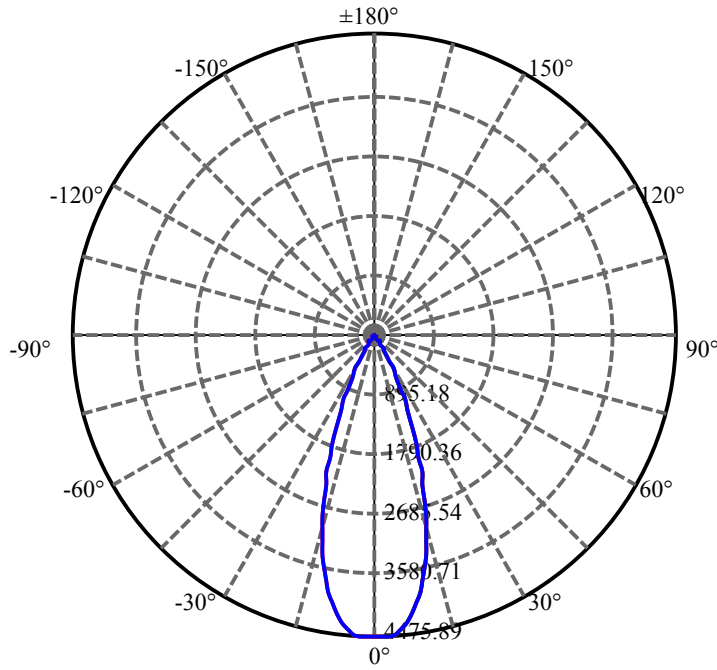
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	11.091	1.193	1898.111	0.06%	99.25%
77.0	10.822	1.168	1899.279	0.06%	99.31%
78.0	10.552	1.144	1900.423	0.05%	99.37%
79.0	10.289	1.120	1901.543	0.05%	99.43%
80.0	10.040	1.096	1902.639	0.05%	99.49%
81.0	9.825	1.074	1903.713	0.05%	99.54%
82.0	9.583	1.052	1904.766	0.05%	99.60%
83.0	9.376	1.031	1905.797	0.05%	99.65%
84.0	9.147	1.009	1906.806	0.05%	99.70%
85.0	8.953	0.988	1907.794	0.05%	99.76%
86.0	8.746	0.967	1908.761	0.05%	99.81%
87.0	8.621	0.950	1909.711	0.05%	99.86%
88.0	8.469	0.936	1910.648	0.04%	99.90%
89.0	8.324	0.920	1911.568	0.04%	99.95%
90.0	8.282	0.910	1912.479	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1695.26	81.29%	88.64%
0-40	1826.90	87.61%	95.53%
0-60	1876.26	89.97%	98.11%
0-90	1911.57	91.67%	99.95%
0-120	1911.57	91.67%	99.95%
0-180	1912.48	91.71%	100.00%
60-90	35.31	1.69%	1.85%
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%
0-25.42	1529.98	73.37%	80.00%

ZONAL LUMEN SUMMARY

0-10	403.30
10-20	807.96
20-30	484.00
30-40	131.65
40-50	31.28
50-60	18.08
60-70	14.34
70-80	12.04
80-90	8.93
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: —————

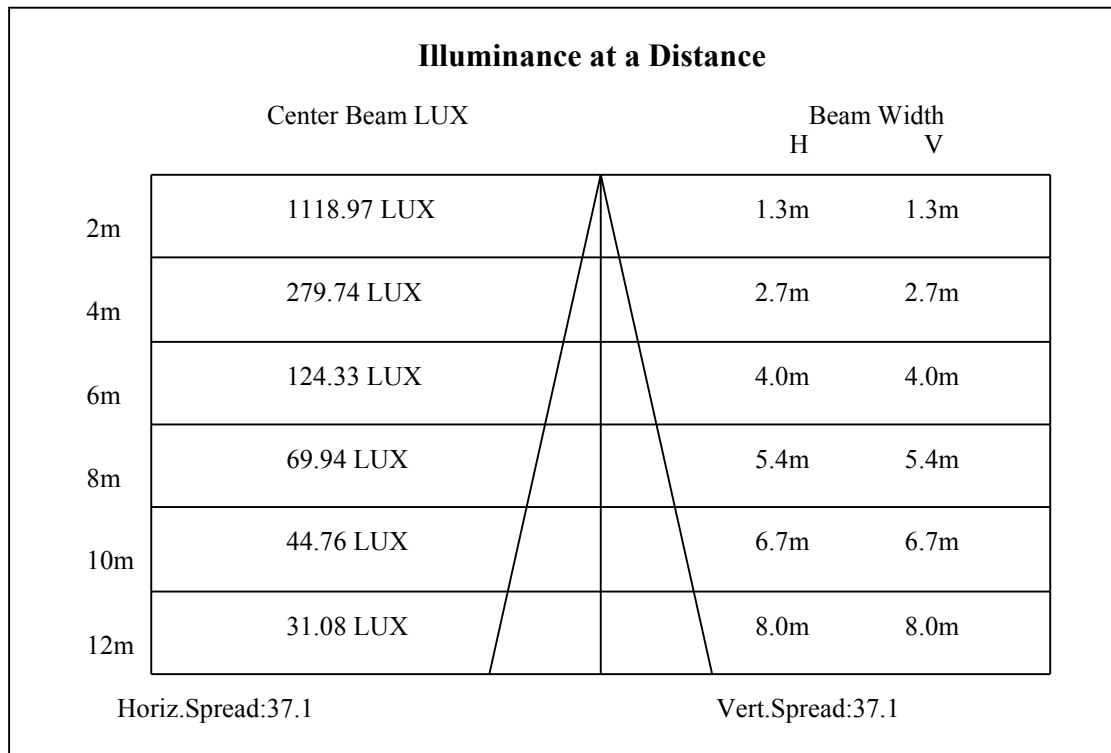
C90/C270: —————

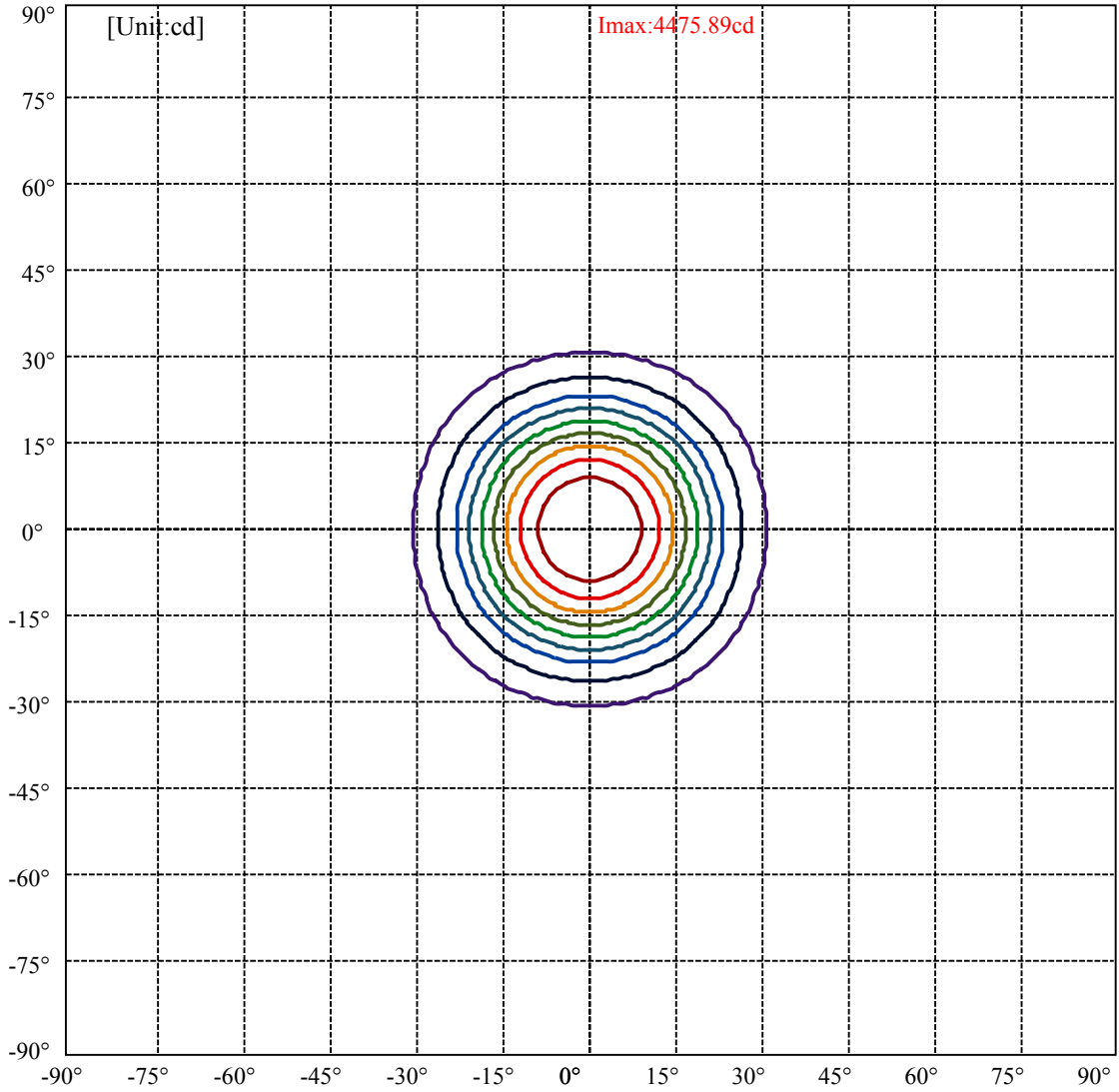
Field angle(10%Imax):C0/180Left:30.3 Right:30.3

:C90/270Left:30.3 Right:30.3

Beam Angle(50%Imax):C0/180Left:18.5 Right:18.5

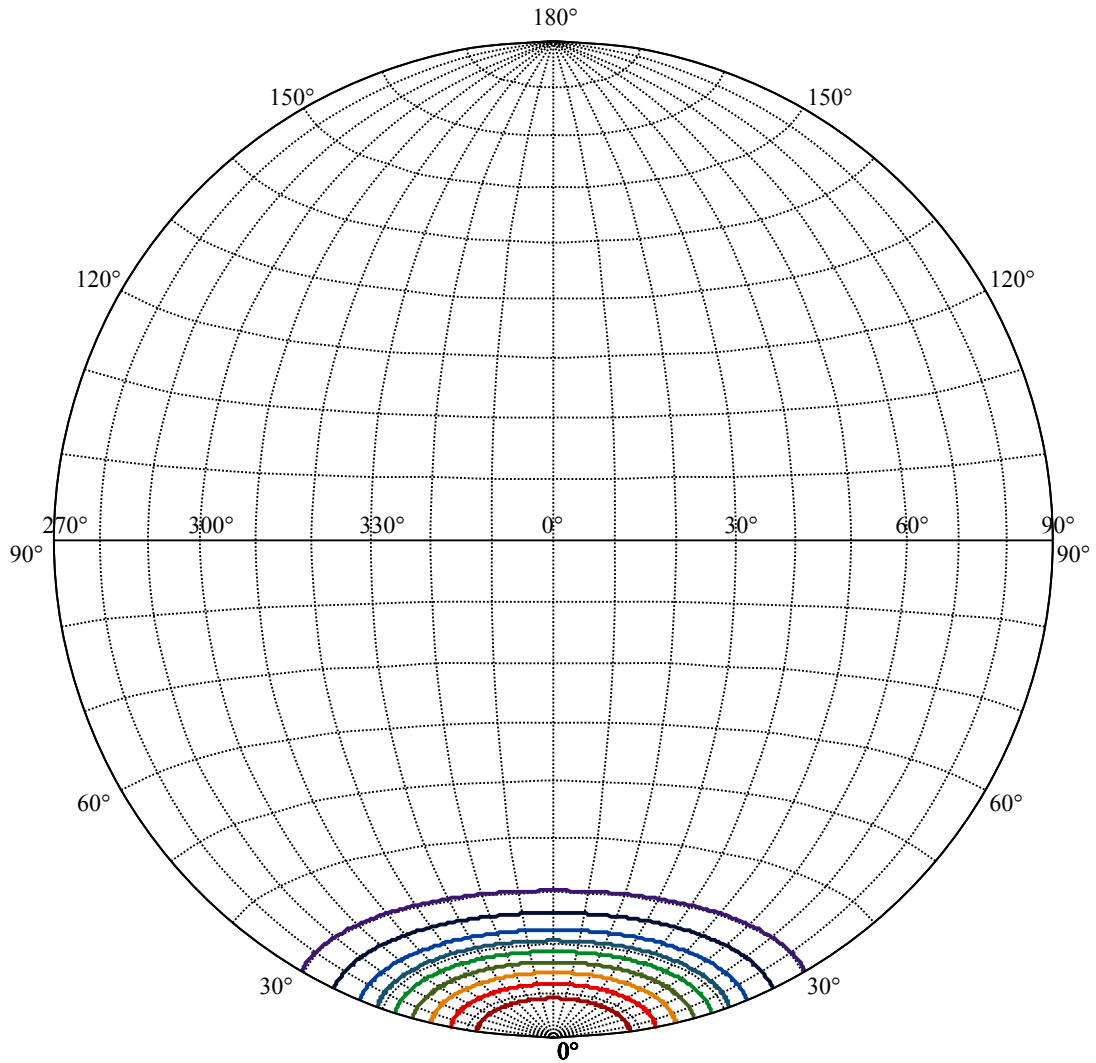
:C90/270Left:18.5 Right:18.5





(10%Imax) 447.589	—
(20%Imax) 895.178	—
(30%Imax) 1342.77	—
(40%Imax) 1790.36	—
(50%Imax) 2237.95	—
(60%Imax) 2685.54	—
(70%Imax) 3133.12	—
(80%Imax) 3580.71	—
(90%Imax) 4028.3	—





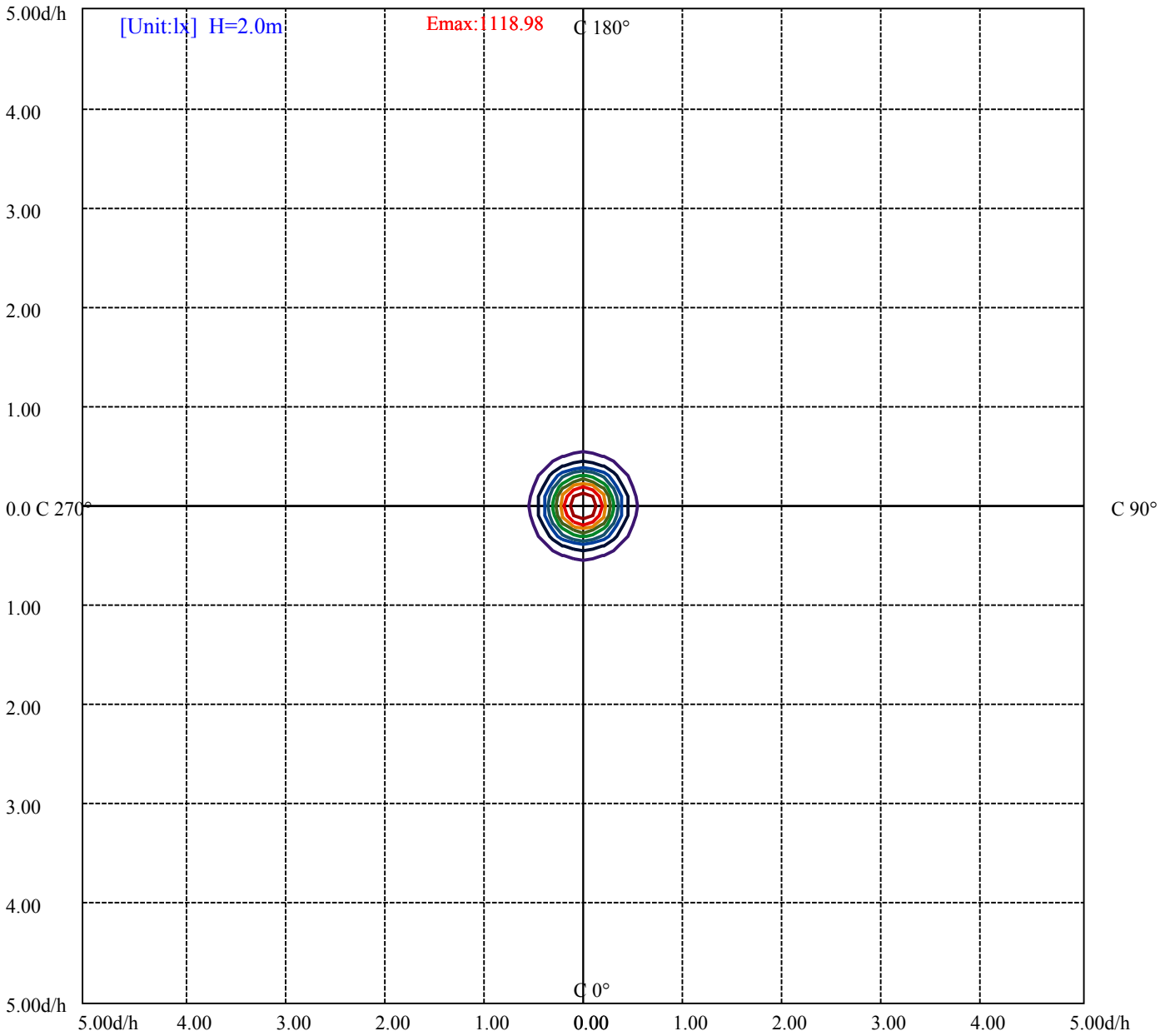
House

[Unit:cd]

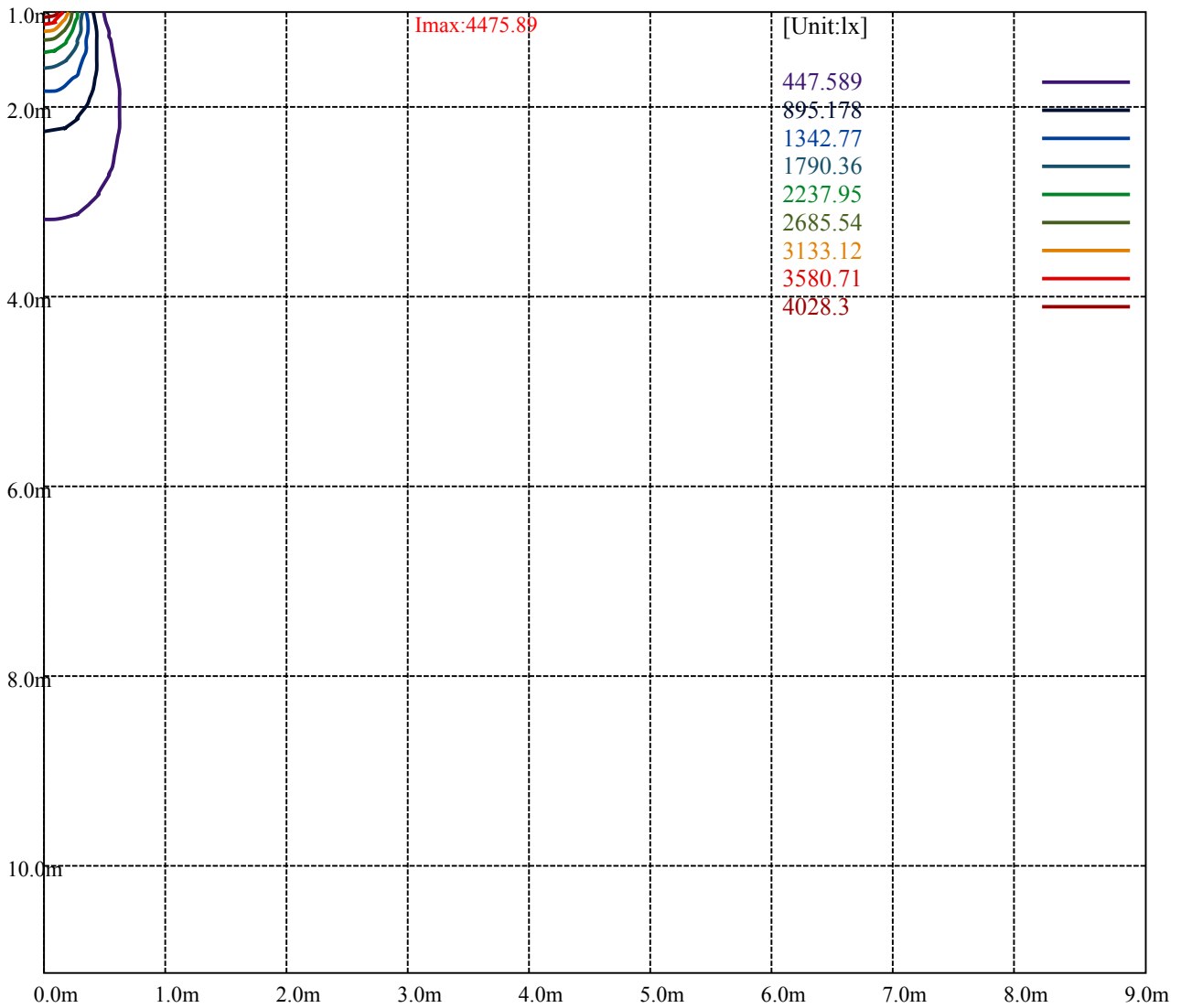
Road

Imax:4475.89

(10%Imax)	447.589	—
(20%Imax)	895.178	—
(30%Imax)	1342.77	—
(40%Imax)	1790.36	—
(50%Imax)	2237.95	—
(60%Imax)	2685.54	—
(70%Imax)	3133.12	—
(80%Imax)	3580.71	—
(90%Imax)	4028.3	—



(10%Emax) 111.8972	—
(20%Emax) 223.7945	—
(30%Emax) 335.6925	—
(40%Emax) 447.59	—
(50%Emax) 559.4875	—
(60%Emax) 671.385	—
(70%Emax) 783.28	—
(80%Emax) 895.1775	—
(90%Emax) 1007.075	—



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

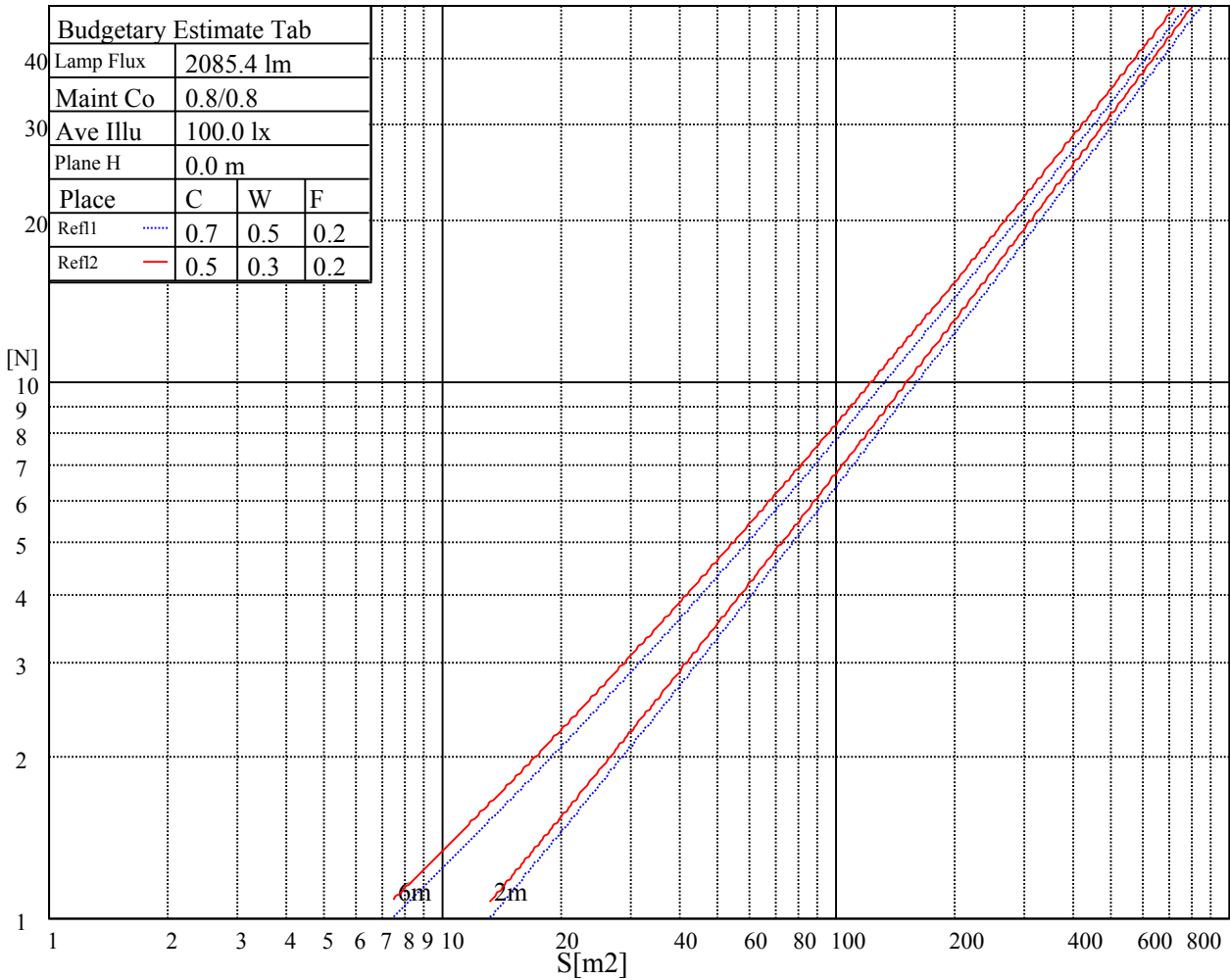
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

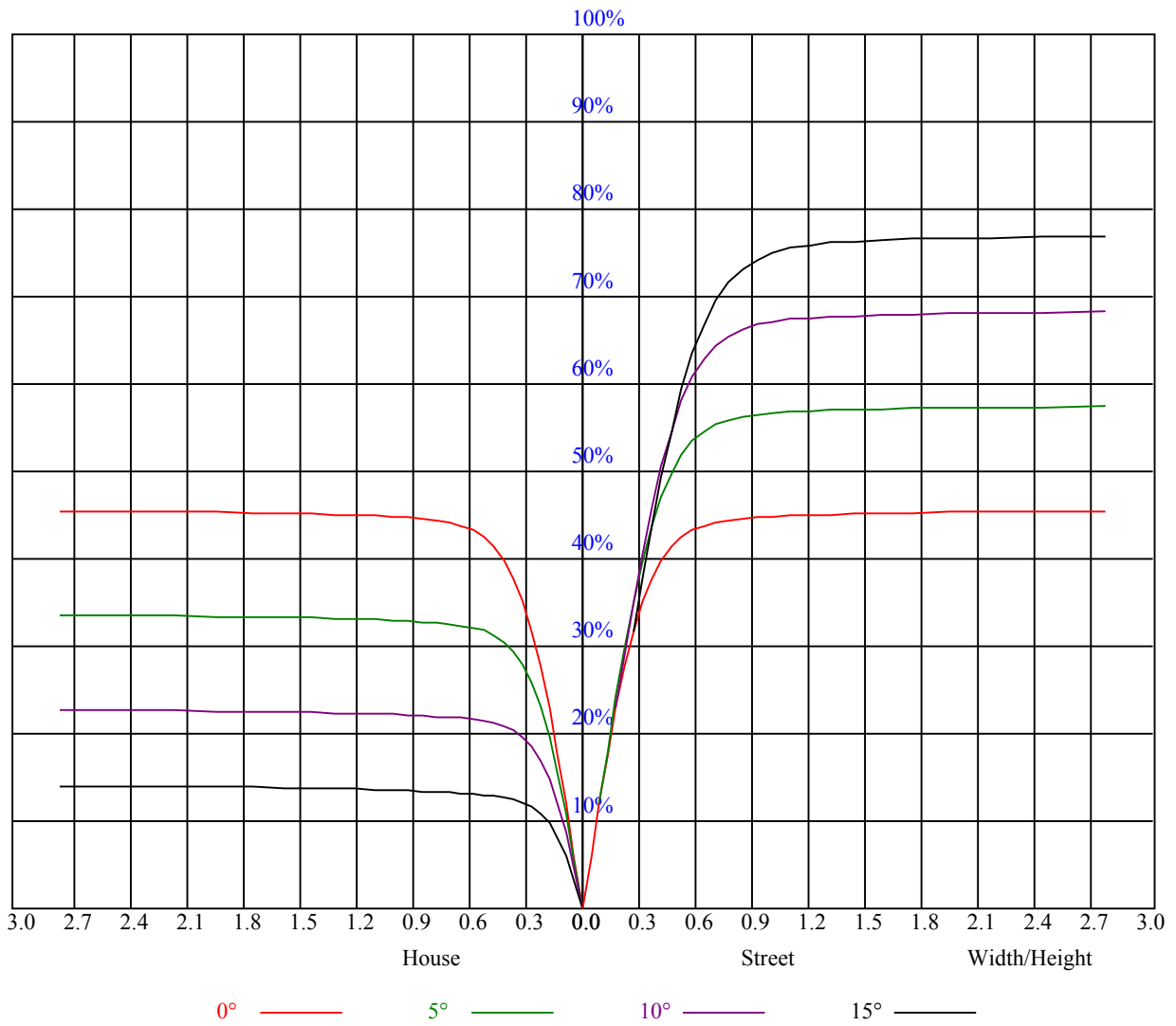


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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	
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	1.07	1.07	1.07	1.02	1.02	1.02	0.98	0.98	0.98	0.94	0.94	0.94	0.92
1	1.02	1.00	0.98	1.00	0.98	0.97	0.97	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87
2	0.96	0.93	0.90	0.95	0.92	0.89	0.92	0.89	0.87	0.89	0.87	0.86	0.87	0.85	0.84	0.82
3	0.91	0.87	0.84	0.90	0.86	0.83	0.88	0.85	0.82	0.85	0.83	0.81	0.83	0.81	0.80	0.78
4	0.87	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	0.74	0.80	0.77	0.74	0.79	0.76	0.73	0.77	0.75	0.73	0.71
6	0.79	0.74	0.71	0.78	0.74	0.71	0.77	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.69	0.68
7	0.75	0.71	0.68	0.75	0.71	0.67	0.74	0.70	0.67	0.73	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	0.64	0.62	0.68	0.64	0.62	0.67	0.64	0.61	0.60
10	0.67	0.62	0.60	0.67	0.62	0.59	0.66	0.62	0.59	0.65	0.62	0.59	0.65	0.61	0.59	0.58





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	4460.39	4463.16	4458.18	4429.40	4375.15	4278.28	4191.37	4098.93	3951.14
45.0	4471.46	4458.73	4441.02	4435.48	4390.65	4311.49	4234.55	4146.54	4029.19
90.0	4475.89	4465.37	4450.43	4420.54	4350.24	4288.80	4175.88	4068.49	3942.84
135.0	4495.82	4486.96	4484.75	4498.03	4491.94	4441.57	4372.93	4258.91	4168.13
180.0	4460.39	4469.25	4482.53	4475.89	4508.00	4530.14	4490.28	4427.73	4338.62
225.0	4471.46	4483.64	4479.77	4500.80	4502.46	4457.63	4410.57	4321.46	4213.52
270.0	4475.89	4493.05	4498.59	4501.91	4526.26	4511.32	4471.46	4412.79	4304.85
315.0	4495.82	4486.41	4485.30	4495.82	4478.11	4423.86	4359.65	4272.74	4146.54
360.0	4460.39	4463.16	4458.18	4429.40	4375.15	4278.28	4191.37	4098.93	3951.14
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3820.51	3684.34	3490.60	3320.11	3086.52	2898.31	2701.26	2498.11	2262.86
45.0	3918.48	3788.40	3655.00	3510.53	3315.68	3135.23	2949.24	2710.11	2516.37
90.0	3810.54	3628.98	3467.90	3298.52	3122.50	2899.42	2705.68	2501.98	2256.77
135.0	4052.99	3883.61	3749.65	3601.31	3399.82	3213.83	3017.32	2819.71	2571.17
180.0	4229.57	4118.31	3992.10	3852.06	3674.37	3508.86	3331.18	3144.08	2887.24
225.0	4063.51	3934.53	3788.95	3588.57	3420.30	3239.29	2996.29	2794.80	2591.10
270.0	4200.23	4083.44	3957.78	3780.65	3616.25	3402.03	3213.28	3016.77	2763.81
315.0	4030.85	3911.29	3736.37	3570.86	3399.26	3167.33	2974.70	2775.98	2532.43
360.0	3820.51	3684.34	3490.60	3320.11	3086.52	2898.31	2701.26	2498.11	2262.86
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2079.63	1890.88	1706.00	1487.35	1075.30	1075.30	1005.89	838.94	721.98
45.0	2278.35	2091.26	1906.93	1678.87	1511.15	1342.88	1185.67	1000.24	863.52
90.0	2068.56	1887.00	1667.25	1498.98	1096.89	1096.89	989.39	855.71	736.81
135.0	2370.79	2177.61	1992.18	1761.35	1591.97	1420.37	1223.87	1076.63	906.69
180.0	2687.97	2491.47	2273.93	2033.14	1843.83	1617.43	1448.05	1291.95	1114.27
225.0	2337.58	2133.33	1942.36	1717.07	1551.56	1274.79	1097.50	1097.50	940.29
270.0	2566.19	2369.13	2110.63	1921.88	1741.42	1565.95	1404.87	1217.78	1073.31
315.0	2332.60	2139.42	1944.57	1713.75	1541.04	1097.22	1097.22	1030.57	899.66
360.0	2079.63	1890.88	1706.00	1487.35	1075.30	1075.30	1005.89	838.94	721.98
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	612.82	500.40	420.52	352.71	280.26	233.37	193.96	152.94	126.43
45.0	737.86	626.60	531.95	430.65	362.57	289.50	289.50	232.10	165.62
90.0	603.96	514.57	435.74	367.55	295.03	246.88	207.19	166.17	139.44
135.0	782.15	670.33	551.88	470.51	396.89	334.34	280.64	280.64	185.32
180.0	985.29	860.19	748.93	620.51	531.39	449.47	378.07	303.34	290.61
225.0	826.04	722.97	623.95	514.46	436.35	353.49	296.09	247.32	195.95
270.0	945.44	795.98	686.38	590.07	482.13	408.51	328.25	287.29	287.29
315.0	754.41	646.75	551.27	443.71	372.31	310.53	258.83	206.08	171.37
360.0	612.82	500.40	420.52	352.71	280.26	233.37	193.96	152.94	126.43
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	105.56	88.34	70.91	60.72	52.75	46.77	40.91	37.36	33.71
45.0	131.24	109.77	89.01	76.22	66.20	56.68	50.37	45.11	40.46
90.0	118.01	96.76	83.20	69.69	61.28	54.41	48.66	42.62	38.75
135.0	153.55	121.72	101.19	85.08	69.30	60.00	52.75	45.78	41.35
180.0	290.61	172.54	136.89	113.86	90.72	76.06	64.54	54.14	47.71
225.0	163.07	135.56	112.76	89.84	75.45	64.32	55.80	47.71	42.73
270.0	185.99	147.79	123.44	102.90	86.46	70.02	60.22	52.64	46.72
315.0	142.09	118.79	95.32	80.76	68.47	57.35	50.76	45.45	40.35
360.0	105.56	88.34	70.91	60.72	52.75	46.77	40.91	37.36	33.71

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	31.33	29.23	27.01	25.57	24.30	22.86	21.81	20.87	20.04
45.0	36.81	33.10	30.78	28.73	27.01	25.08	23.80	22.36	21.37
90.0	35.65	33.05	30.28	28.40	26.74	25.24	23.64	22.53	21.26
135.0	37.64	33.88	31.39	29.23	27.34	25.41	24.08	22.92	21.81
180.0	42.68	38.58	34.60	31.99	29.78	27.95	25.91	24.58	23.36
225.0	38.64	34.65	31.99	29.78	27.46	25.91	24.13	22.92	21.86
270.0	40.85	37.20	34.26	31.11	29.06	26.85	25.35	23.97	22.75
315.0	36.98	34.26	31.27	29.23	27.46	25.91	24.13	22.86	21.75
360.0	31.33	29.23	27.01	25.57	24.30	22.86	21.81	20.87	20.04
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	19.32	18.43	17.82	17.21	16.61	16.11	15.61	15.22	14.83
45.0	20.48	19.48	18.82	18.16	17.38	16.83	16.33	15.94	15.50
90.0	20.37	19.60	18.65	17.99	17.38	16.88	16.33	15.83	15.39
135.0	20.65	19.87	19.10	18.27	17.66	16.94	16.50	16.00	15.55
180.0	22.03	21.03	20.20	19.26	18.65	17.88	17.33	16.83	16.38
225.0	20.87	19.82	19.15	18.49	17.82	17.10	16.66	16.22	15.78
270.0	21.48	20.48	19.71	18.99	18.16	17.55	16.99	16.44	16.05
315.0	20.76	19.71	18.93	18.27	17.44	16.94	16.33	15.89	15.39
360.0	19.32	18.43	17.82	17.21	16.61	16.11	15.61	15.22	14.83
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	14.45	14.12	13.84	13.51	13.17	12.90	12.68	12.40	12.18
45.0	15.00	14.61	14.28	13.89	13.62	13.34	12.95	12.73	12.40
90.0	15.00	14.56	14.28	13.89	13.51	13.23	12.95	12.62	12.34
135.0	15.06	14.72	14.39	14.06	13.62	13.34	13.06	12.79	12.45
180.0	15.78	15.39	15.00	14.61	14.23	13.89	13.62	13.34	13.01
225.0	15.22	14.83	14.39	14.12	13.78	13.40	13.12	12.84	12.62
270.0	15.55	15.06	14.67	14.28	13.95	13.62	13.34	13.01	12.73
315.0	14.89	14.50	14.17	13.89	13.45	13.17	12.95	12.73	12.51
360.0	14.45	14.12	13.84	13.51	13.17	12.90	12.68	12.40	12.18
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	10.79	10.46	10.19	10.02	9.74
45.0	12.12	11.85	11.62	11.29	11.02	10.79	10.52	10.19	10.02
90.0	12.01	11.73	11.51	11.18	10.85	10.57	10.35	10.13	9.80
135.0	12.23	11.85	11.57	11.35	11.02	10.79	10.52	10.19	10.02
180.0	12.79	12.40	12.12	11.85	11.51	11.24	10.96	10.68	10.35
225.0	12.29	12.01	11.73	11.46	11.13	10.90	10.63	10.35	10.13
270.0	12.51	12.23	11.96	11.62	11.35	11.07	10.74	10.52	10.24
315.0	12.12	11.85	11.51	11.35	11.07	10.74	10.52	10.24	10.02
360.0	11.79	11.57	11.24	11.02	10.79	10.46	10.19	10.02	9.74
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	9.58	9.35	9.13	8.91	8.80	8.58	8.52	8.25	8.30
45.0	9.74	9.52	9.30	9.02	8.86	8.69	8.58	8.52	8.19
90.0	9.63	9.35	9.19	9.02	8.80	8.69	8.58	8.36	8.30
135.0	9.80	9.52	9.30	9.08	8.91	8.69	8.58	8.47	8.19
180.0	10.13	9.85	9.63	9.41	9.24	8.97	8.80	8.64	8.47
225.0	9.85	9.63	9.47	9.24	8.97	8.75	8.58	8.47	8.36
270.0	10.02	9.80	9.52	9.35	9.13	8.91	8.75	8.58	8.47
315.0	9.85	9.63	9.47	9.13	8.91	8.69	8.58	8.47	8.30
360.0	9.58	9.35	9.13	8.91	8.80	8.58	8.52	8.25	8.30

Intensity data(cd)

C/ $\gamma$ ( $^{\circ}$ )	90.0
0.0	8.36
45.0	8.30
90.0	8.36
135.0	8.25
180.0	8.30
225.0	8.19
270.0	8.25
315.0	8.25
360.0	8.36