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NATA

Client:

LumCAT: 2-2644-L Luminaire:

92.70.411.00 Report No: 2023829-B008

Ballast type: AC

Test No: 2023829-C008

LampCAT: LUXEON CoB 1205 LES13

Voltage(V): 35.220

Lamp flux(lm): 1852.5 Number of Lamps: 1

Current(A): 0.433

Length(mm): 0

Power (W): 15.250

Phm Type: C

PF: 0.000

Width(mm): 0

Height(mm): 0

Photometric Results

Lumens(lm): 1676.34, Efficiency(%): 90.49% , Luminous Efficacy(lm/W): 109.92

Central intensity(cd): 5837.950, Maximum intensity(cd): 5837.950

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=25.4

[C90/270]Total=25.4

Field angle(10%Imax): [C0/180]Total=56.0

[C90/270]Total=56.0

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

Maximum s/h(1/4): C0_180=0.46 C90_270=0.46

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 90.49%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.827%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5837.950	0.000	0	0.00%	0.00%
1.0	5813.180	5.575	5.575	0.30%	0.33%
2.0	5742.396	16.586	22.161	0.90%	1.32%
3.0	5619.788	27.175	49.335	1.47%	2.94%
4.0	5463.137	37.098	86.433	2.00%	5.16%
5.0	5259.713	46.129	132.562	2.49%	7.91%
6.0	5028.819	54.069	186.631	2.92%	11.13%
7.0	4748.868	60.690	247.321	3.28%	14.75%
8.0	4448.091	65.821	313.142	3.55%	18.68%
9.0	4116.523	69.412	382.554	3.75%	22.82%
10.0	3781.910	71.478	454.032	3.86%	27.08%
11.0	3438.856	72.150	526.182	3.89%	31.39%
12.0	3125.001	71.752	597.934	3.87%	35.67%
13.0	2833.495	70.712	668.647	3.82%	39.89%
14.0	2567.314	69.130	737.776	3.73%	44.01%
15.0	2318.638	67.077	804.853	3.62%	48.01%
16.0	2082.209	64.485	869.338	3.48%	51.86%
17.0	1895.114	61.938	931.275	3.34%	55.55%
18.0	1707.257	59.395	990.671	3.21%	59.10%
19.0	1524.867	56.232	1046.903	3.04%	62.45%
20.0	1299.557	51.695	1098.598	2.79%	65.54%
21.0	1204.674	48.086	1146.684	2.60%	68.40%
22.0	1119.084	46.697	1193.381	2.52%	71.19%
23.0	1000.925	44.483	1237.864	2.40%	73.84%
24.0	902.741	41.621	1279.485	2.25%	76.33%
25.0	818.278	39.132	1318.618	2.11%	78.66%
26.0	744.817	36.897	1355.515	1.99%	80.86%
27.0	664.769	34.486	1390.001	1.86%	82.92%
28.0	580.376	31.524	1421.525	1.70%	84.80%
29.0	500.743	28.285	1449.81	1.53%	86.49%
30.0	426.652	25.039	1474.85	1.35%	87.98%
31.0	349.835	21.608	1496.458	1.17%	89.27%
32.0	275.744	17.922	1514.38	0.97%	90.34%
33.0	236.125	15.080	1529.46	0.81%	91.24%
34.0	198.228	13.145	1542.605	0.71%	92.02%
35.0	126.746	10.092	1552.697	0.54%	92.62%
36.0	107.199	7.449	1560.146	0.40%	93.07%
37.0	95.450	6.609	1566.755	0.36%	93.46%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	85.632	6.044	1572.8	0.33%	93.82%
39.0	77.405	5.565	1578.365	0.30%	94.16%
40.0	69.669	5.129	1583.494	0.28%	94.46%
41.0	63.048	4.726	1588.22	0.26%	94.74%
42.0	56.890	4.358	1592.578	0.24%	95.00%
43.0	51.970	4.032	1596.61	0.22%	95.24%
44.0	47.230	3.744	1600.354	0.20%	95.47%
45.0	43.356	3.481	1603.835	0.19%	95.67%
46.0	39.993	3.260	1607.095	0.18%	95.87%
47.0	37.094	3.066	1610.161	0.17%	96.05%
48.0	34.361	2.889	1613.05	0.16%	96.22%
49.0	31.987	2.725	1615.774	0.15%	96.39%
50.0	30.119	2.589	1618.364	0.14%	96.54%
51.0	28.473	2.479	1620.843	0.13%	96.69%
52.0	27.006	2.381	1623.223	0.13%	96.83%
53.0	25.677	2.292	1625.515	0.12%	96.97%
54.0	24.681	2.220	1627.734	0.12%	97.10%
55.0	23.719	2.160	1629.895	0.12%	97.23%
56.0	22.854	2.105	1631.999	0.11%	97.35%
57.0	22.086	2.055	1634.054	0.11%	97.48%
58.0	21.339	2.008	1636.062	0.11%	97.60%
59.0	20.467	1.954	1638.017	0.11%	97.71%
60.0	19.644	1.895	1639.912	0.10%	97.83%
61.0	18.820	1.836	1641.747	0.10%	97.94%
62.0	17.983	1.773	1643.521	0.10%	98.04%
63.0	17.215	1.712	1645.233	0.09%	98.14%
64.0	16.544	1.657	1646.889	0.09%	98.24%
65.0	15.866	1.604	1648.493	0.09%	98.34%
66.0	15.257	1.553	1650.046	0.08%	98.43%
67.0	14.696	1.506	1651.552	0.08%	98.52%
68.0	14.198	1.464	1653.016	0.08%	98.61%
69.0	13.707	1.424	1654.439	0.08%	98.69%
70.0	13.202	1.382	1655.821	0.07%	98.78%
71.0	12.724	1.340	1657.161	0.07%	98.86%
72.0	12.247	1.298	1658.46	0.07%	98.93%
73.0	11.825	1.259	1659.718	0.07%	99.01%
74.0	11.431	1.223	1660.941	0.07%	99.08%
75.0	11.057	1.188	1662.129	0.06%	99.15%

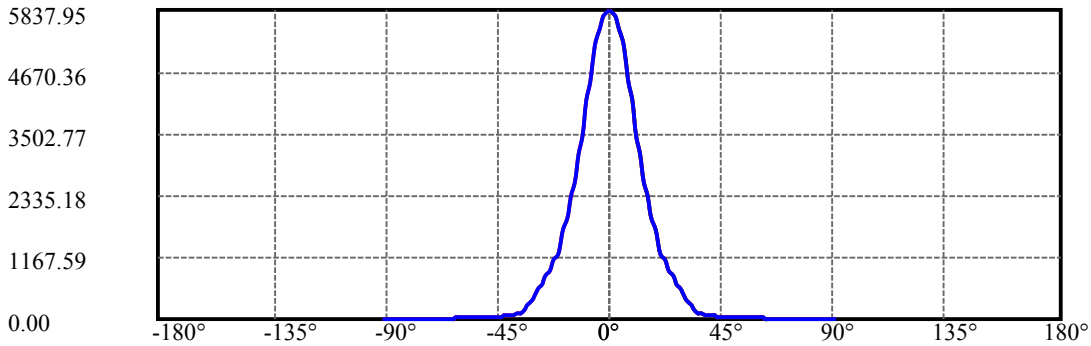
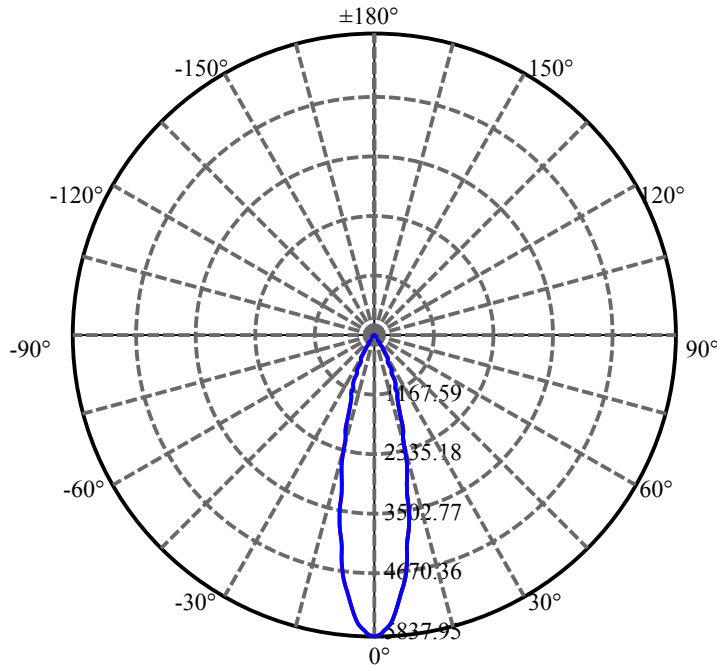
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	10.690	1.154	1663.284	0.06%	99.22%
77.0	10.323	1.120	1664.404	0.06%	99.29%
78.0	9.991	1.087	1665.491	0.06%	99.35%
79.0	9.659	1.056	1666.547	0.06%	99.42%
80.0	9.362	1.025	1667.573	0.06%	99.48%
81.0	9.064	0.996	1668.569	0.05%	99.54%
82.0	8.780	0.968	1669.537	0.05%	99.59%
83.0	8.504	0.940	1670.476	0.05%	99.65%
84.0	8.248	0.913	1671.389	0.05%	99.70%
85.0	8.006	0.887	1672.276	0.05%	99.76%
86.0	7.687	0.858	1673.134	0.05%	99.81%
87.0	7.466	0.829	1673.963	0.04%	99.86%
88.0	7.286	0.808	1674.771	0.04%	99.91%
89.0	7.148	0.791	1675.562	0.04%	99.95%
90.0	7.106	0.781	1676.344	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1474.85	79.61%	87.98%
0-40	1583.49	85.48%	94.46%
0-60	1639.91	88.52%	97.83%
0-90	1675.56	90.45%	99.95%
0-120	1675.56	90.45%	99.95%
0-180	1676.34	90.49%	100.00%
60-90	35.65	1.92%	2.13%
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%
0-25.61	1341.08	72.39%	80.00%

ZONAL LUMEN SUMMARY

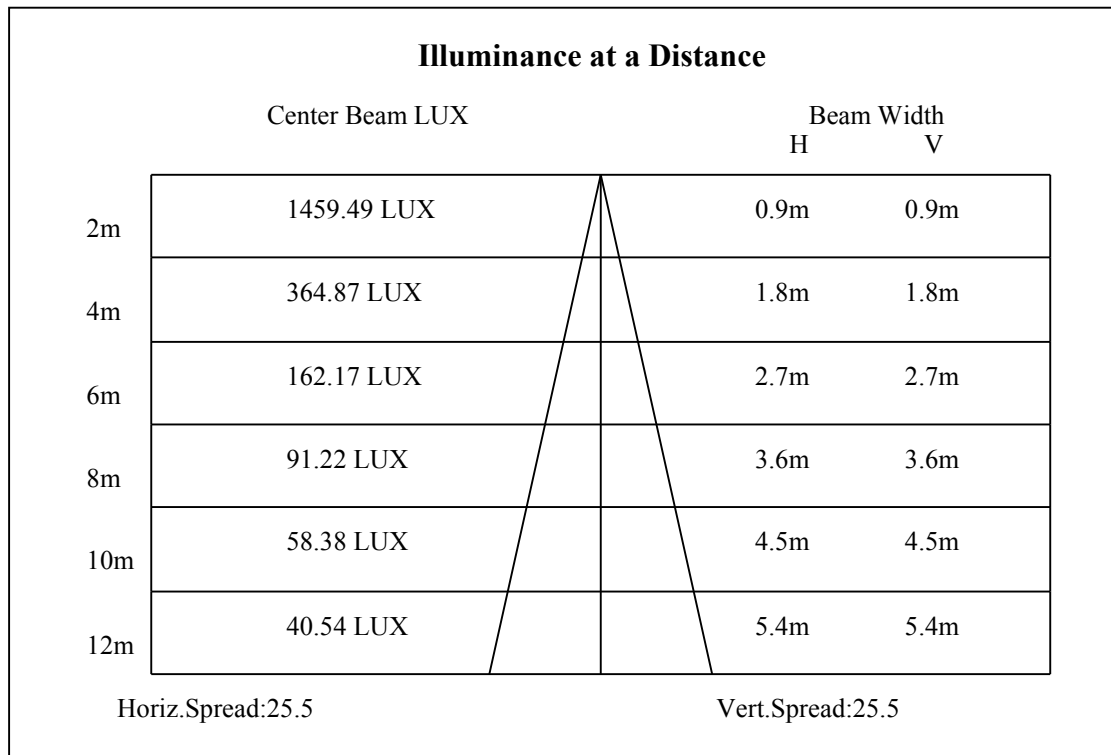
0-10	454.03
10-20	644.57
20-30	376.25
30-40	108.64
40-50	34.87
50-60	21.55
60-70	15.91
70-80	11.75
80-90	7.99
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

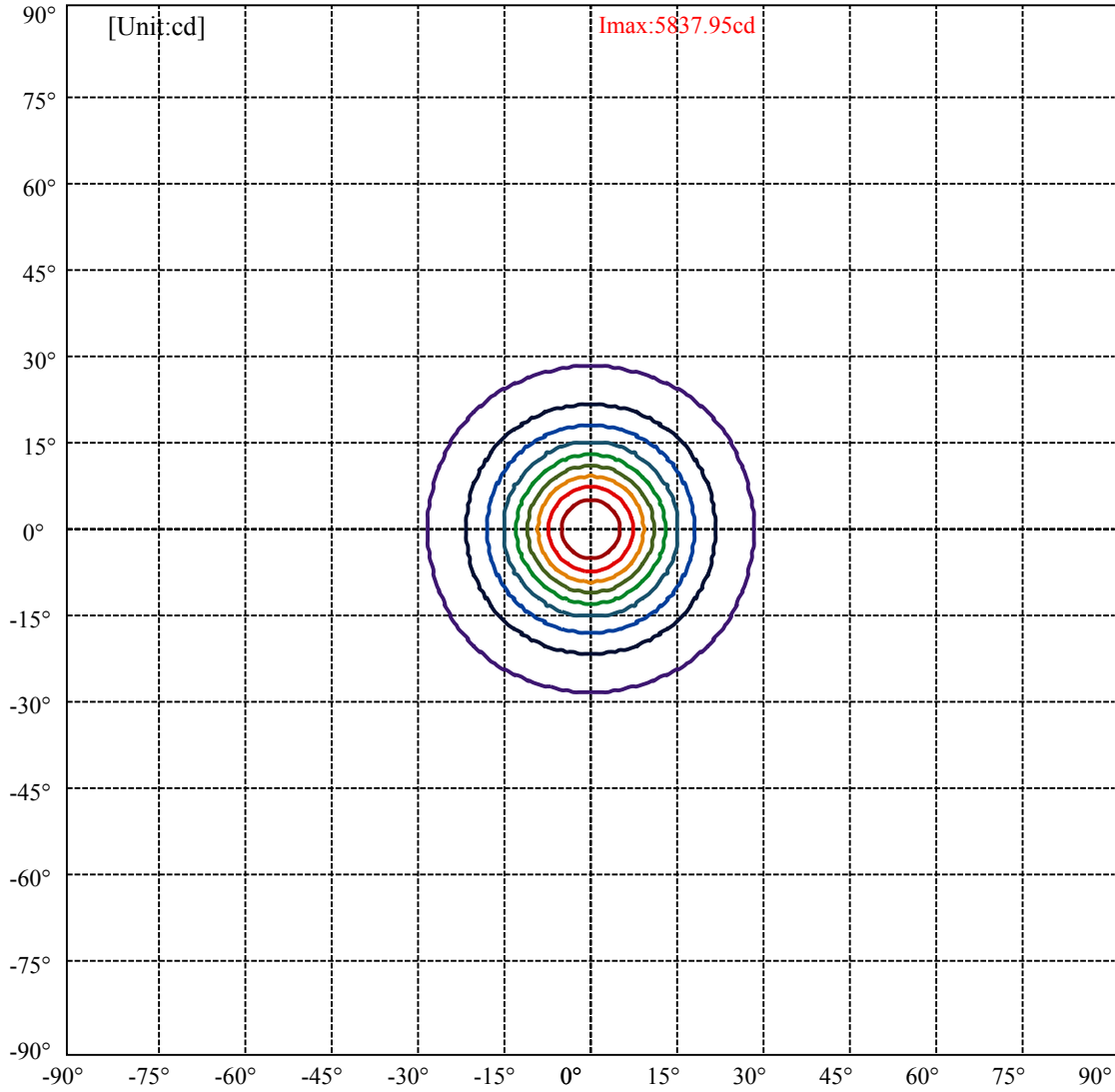


C0(Max): ———
C0/C180: ———
C90/C270: ———

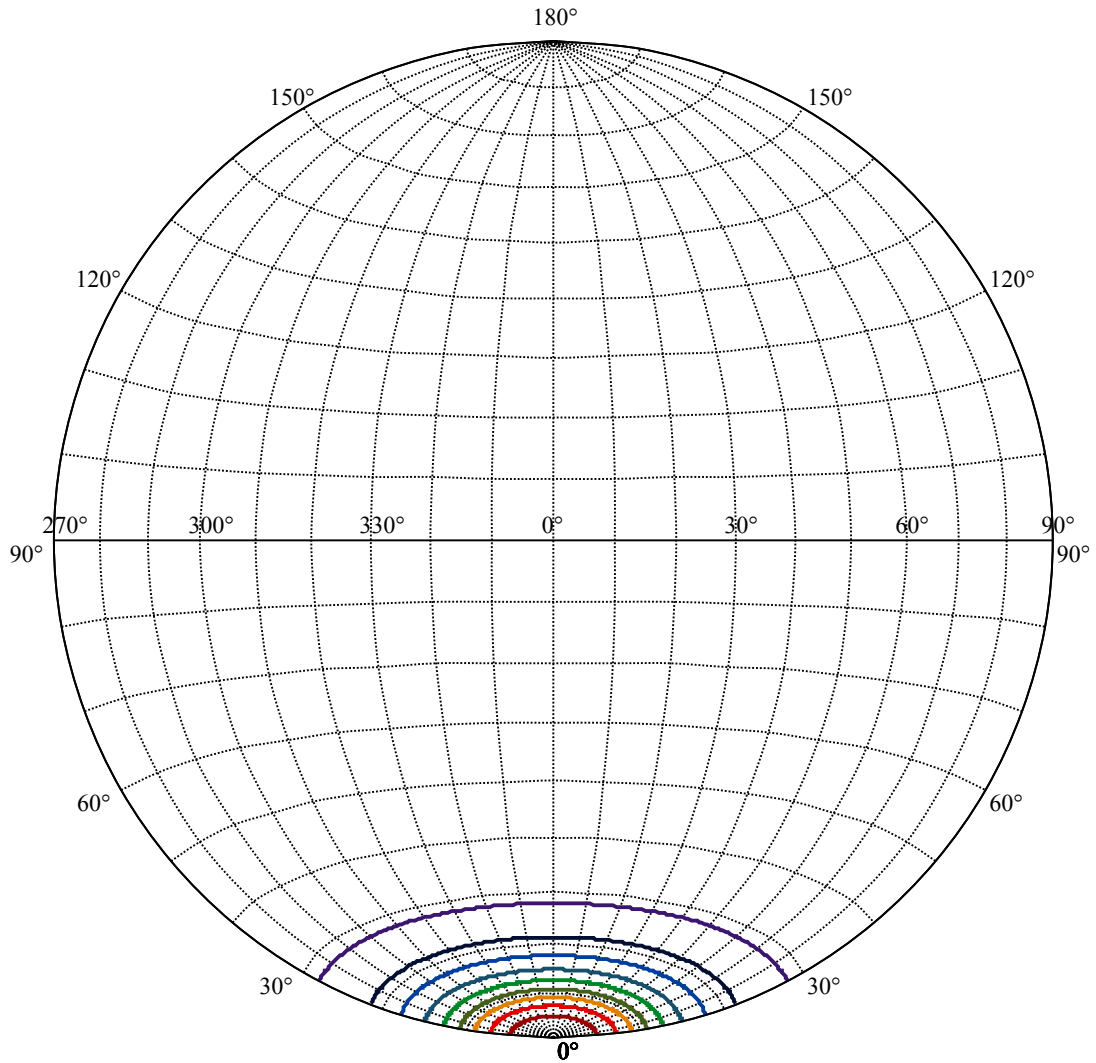
Field angle(10%Imax):C0/180Left:28.0 Right:28.0
:C90/270Left:28.0 Right:28.0

Beam Angle(50%Imax):C0/180Left:12.7 Right:12.7
:C90/270Left:12.7 Right:12.7





(10%Imax) 583.795	—
(20%Imax) 1167.59	—
(30%Imax) 1751.39	—
(40%Imax) 2335.18	—
(50%Imax) 2918.98	—
(60%Imax) 3502.77	—
(70%Imax) 4086.57	—
(80%Imax) 4670.36	—
(90%Imax) 5254.16	—



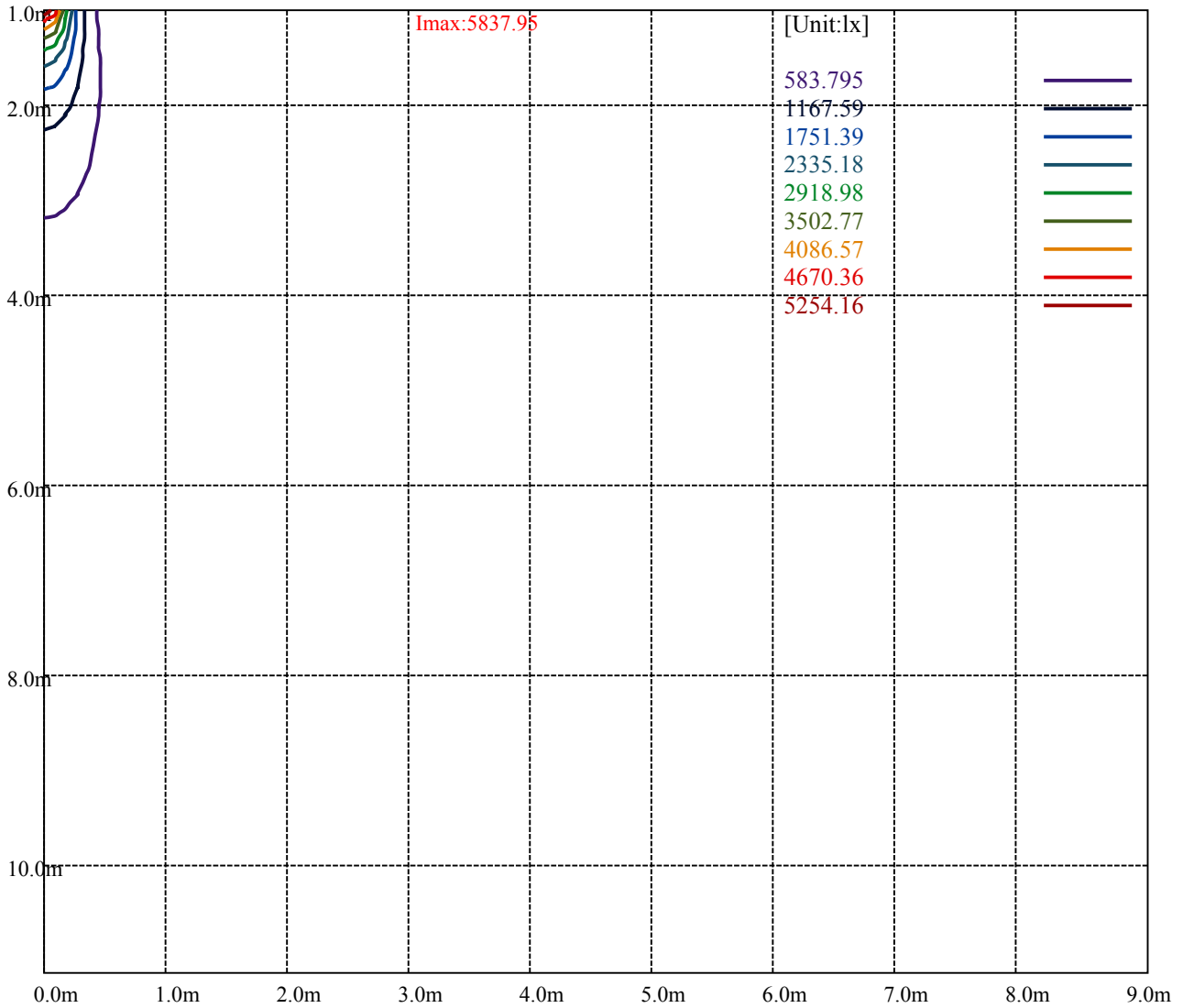
House

[Unit:cd]

Road

I_{max}:5837.95

(10%I _{max})	583.795	—
(20%I _{max})	1167.59	—
(30%I _{max})	1751.39	—
(40%I _{max})	2335.18	—
(50%I _{max})	2918.98	—
(60%I _{max})	3502.77	—
(70%I _{max})	4086.57	—
(80%I _{max})	4670.36	—
(90%I _{max})	5254.16	—



Luminance Table

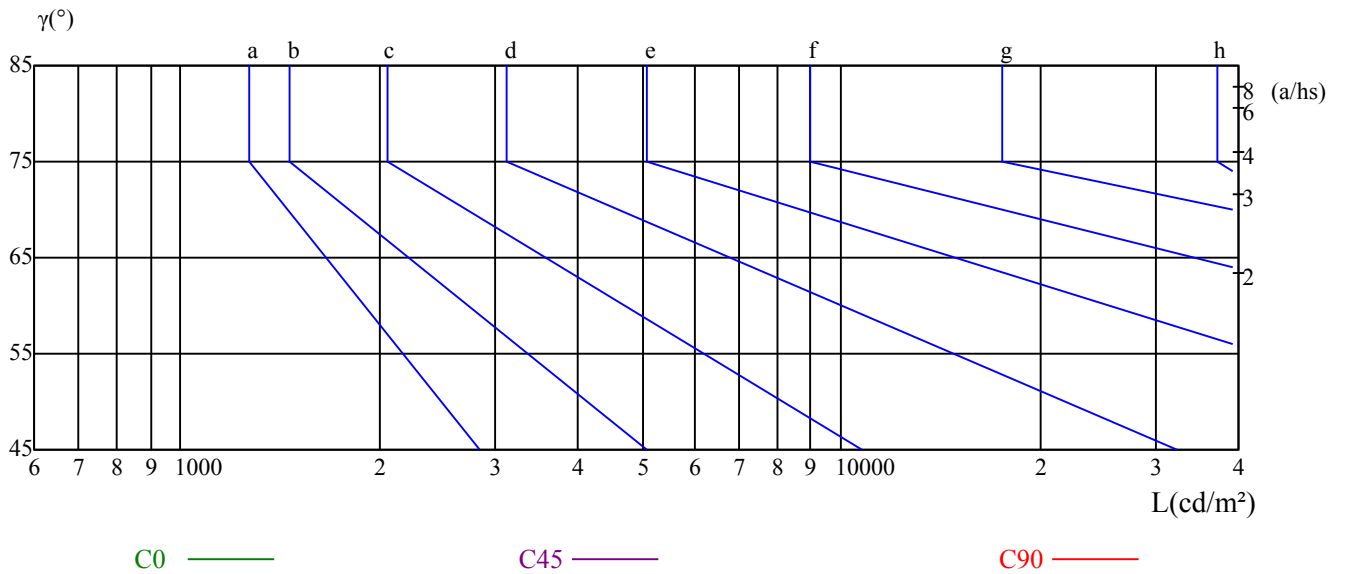
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

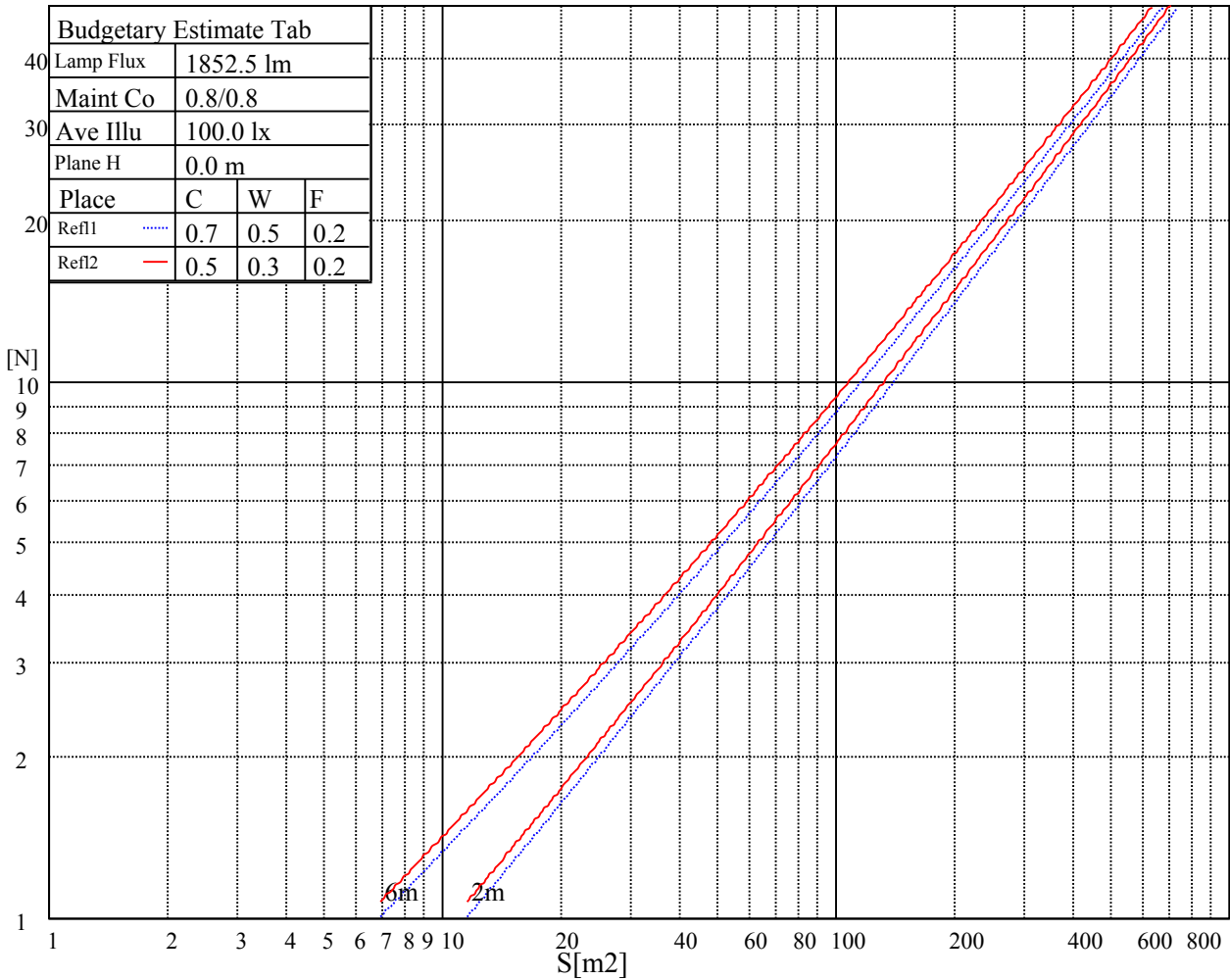
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

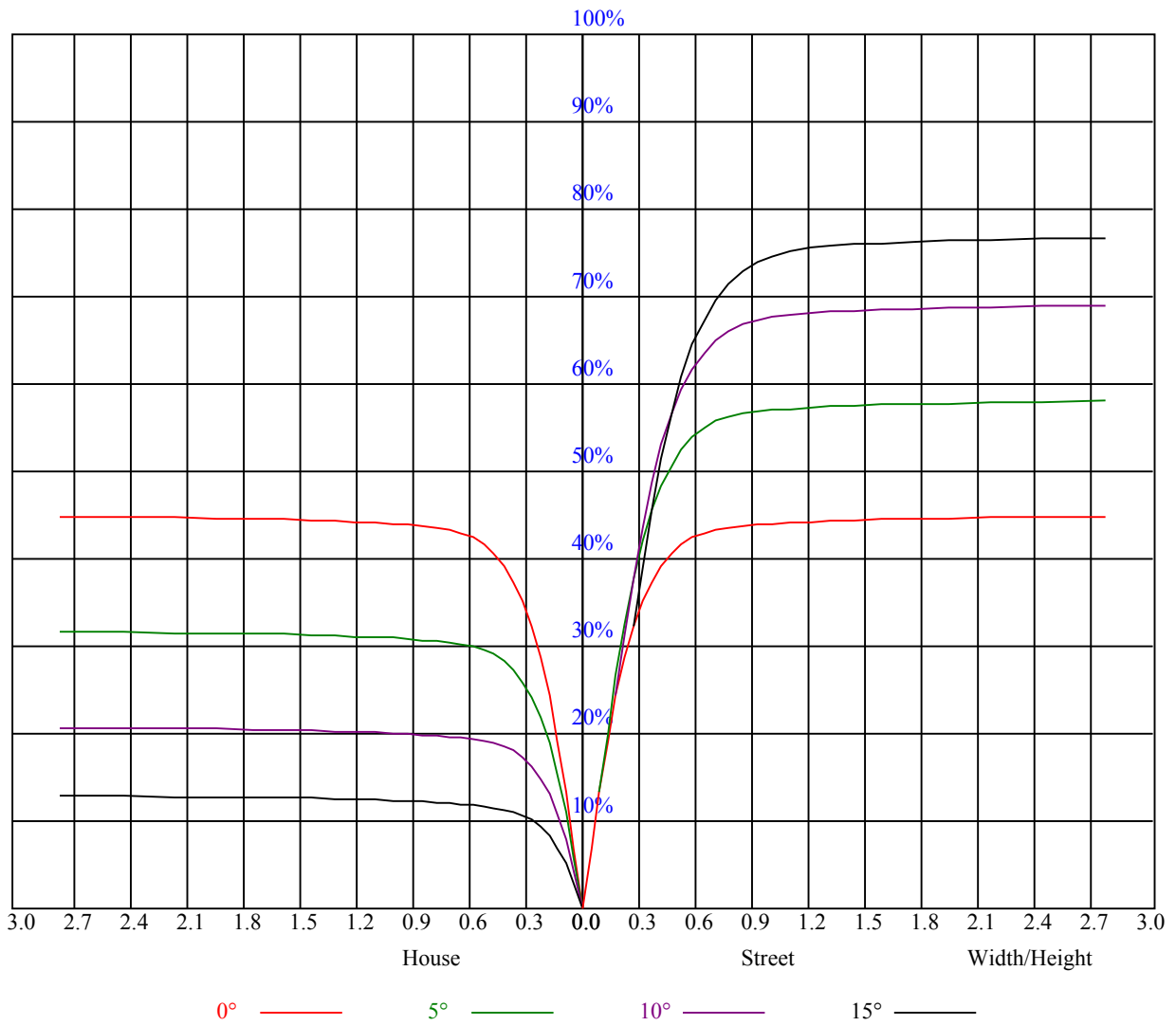


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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	
	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	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	
8H	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 RHOFC=20 CU															
0	1.08	1.08	1.08	1.05	1.05	1.05	1.01	1.01	1.01	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	0.96	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	0.89	0.87	0.88	0.86	0.85	0.86	0.84	0.83	0.82
3	0.90	0.87	0.84	0.89	0.86	0.83	0.87	0.84	0.82	0.85	0.82	0.80	0.83	0.81	0.79	0.78
4	0.86	0.82	0.79	0.85	0.81	0.78	0.83	0.80	0.77	0.81	0.79	0.76	0.80	0.78	0.76	0.74
5	0.82	0.78	0.75	0.81	0.77	0.74	0.80	0.76	0.74	0.78	0.75	0.73	0.77	0.75	0.72	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	0.74	0.72	0.70	0.68
7	0.76	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.67	0.72	0.69	0.67	0.66
8	0.73	0.68	0.65	0.72	0.68	0.65	0.71	0.68	0.65	0.70	0.67	0.65	0.70	0.67	0.64	0.63
9	0.70	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.62	0.67	0.64	0.62	0.61
10	0.68	0.63	0.61	0.67	0.63	0.61	0.67	0.63	0.60	0.66	0.63	0.60	0.65	0.62	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	5807.64	5697.49	5569.07	5408.54	5203.18	4908.15	4644.11	4343.54	3956.07
45.0	5845.28	5830.34	5772.77	5644.35	5492.68	5316.66	5111.30	4810.17	4533.40
90.0	5841.96	5802.66	5677.56	5544.71	5381.42	5182.70	4902.06	4635.26	4342.43
135.0	5856.91	5859.12	5801.00	5693.06	5554.12	5343.23	5151.70	4921.99	4595.40
180.0	5807.64	5843.62	5836.43	5776.65	5677.01	5505.97	5332.16	5126.24	4887.67
225.0	5845.28	5807.64	5734.58	5610.03	5414.08	5209.83	4924.75	4642.45	4336.90
270.0	5841.96	5852.48	5817.05	5718.53	5592.32	5422.38	5213.15	4910.92	4638.02
315.0	5856.91	5812.07	5730.70	5562.43	5390.28	5188.79	4951.32	4600.38	4294.83
360.0	5807.64	5697.49	5569.07	5408.54	5203.18	4908.15	4644.11	4343.54	3956.07
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3637.23	3323.37	3031.11	2758.21	2458.20	2236.78	2036.40	1802.81	1642.84
45.0	4240.58	3925.62	3523.75	3219.31	2930.36	2599.90	2367.42	2092.31	1901.34
90.0	3948.32	3630.59	3228.17	2933.69	2670.20	2433.29	2155.41	1956.14	1780.67
135.0	4308.12	3998.69	3597.93	3289.61	2991.25	2719.47	2422.22	2199.70	1998.21
180.0	4545.03	4241.69	3929.50	3608.45	3220.97	2937.56	2680.17	2386.24	2173.13
225.0	4016.96	3613.98	3306.77	3021.14	2764.86	2467.05	2250.62	2048.58	1868.13
270.0	4258.85	3940.57	3621.18	3248.09	2963.02	2707.84	2469.27	2200.80	1999.32
315.0	3977.10	3580.77	3272.45	2921.51	2669.10	2436.61	2167.59	1971.09	1797.28
360.0	3637.23	3323.37	3031.11	2758.21	2458.20	2236.78	2036.40	1802.81	1642.84
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1458.51	1235.99	1082.50	1053.99	949.81	868.89	797.53	708.69	632.86
45.0	1730.85	1570.88	1395.41	1263.11	1141.89	1031.18	909.40	833.02	762.72
90.0	1620.70	1436.37	1088.47	1088.47	1060.08	928.67	846.36	760.34	685.00
135.0	1815.54	1611.29	1458.51	1320.68	1162.92	1047.79	916.60	839.66	772.68
180.0	1929.02	1748.01	1577.52	1397.62	1274.74	1154.07	1033.95	909.96	837.44
225.0	1649.48	1490.06	1228.79	1076.13	1076.13	951.03	870.44	799.91	730.17
270.0	1819.97	1660.55	1466.26	1338.39	1214.96	1073.80	975.28	887.82	803.13
315.0	1633.98	1445.78	1098.99	1098.99	1072.14	951.97	872.37	806.83	734.54
360.0	1458.51	1235.99	1082.50	1053.99	949.81	868.89	797.53	708.69	632.86
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	557.63	485.56	398.38	330.68	265.64	191.86	146.08	117.35	101.80
45.0	684.67	588.35	514.18	425.61	356.42	291.66	291.66	162.02	127.70
90.0	608.72	516.67	445.76	374.74	290.16	228.78	175.86	136.83	111.37
135.0	695.74	599.98	529.13	458.27	370.26	303.28	287.78	287.78	133.40
180.0	771.57	695.19	601.08	525.80	452.18	361.96	294.43	294.43	162.08
225.0	635.24	561.73	490.27	418.53	330.96	264.37	203.70	144.20	114.19
270.0	722.31	627.65	551.27	475.99	400.70	312.69	295.53	295.53	143.59
315.0	642.27	567.87	475.87	403.58	332.34	251.36	193.96	147.68	119.84
360.0	557.63	485.56	398.38	330.68	265.64	191.86	146.08	117.35	101.80
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	92.44	83.42	73.40	66.87	60.83	55.63	49.87	45.78	42.29
45.0	109.32	96.65	87.18	78.49	70.96	63.05	57.46	52.64	47.22
90.0	100.96	91.72	82.92	73.34	66.87	61.06	54.69	50.10	45.17
135.0	113.31	102.51	90.89	82.48	75.00	66.87	61.11	55.96	50.32
180.0	124.82	105.06	92.94	84.58	77.00	69.86	61.94	56.52	51.76
225.0	99.36	88.12	80.21	72.79	64.49	58.73	53.69	49.21	44.34
270.0	113.20	101.74	92.22	83.36	73.73	66.87	59.45	54.41	49.76
315.0	104.18	94.38	85.30	77.33	68.47	62.33	56.90	51.15	47.00
360.0	92.44	83.42	73.40	66.87	60.83	55.63	49.87	45.78	42.29

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	39.19	35.87	33.54	31.11	29.45	28.01	26.51	25.41	24.52
45.0	43.51	40.24	36.70	34.15	31.39	29.61	27.95	26.63	25.19
90.0	41.79	38.75	36.04	33.10	31.16	29.39	27.90	26.35	25.19
135.0	46.33	42.90	39.74	36.37	33.93	31.88	30.06	28.17	26.79
180.0	47.55	43.01	39.85	37.20	34.21	32.11	30.22	28.17	26.90
225.0	41.02	38.19	35.65	32.77	30.94	28.78	27.34	26.13	24.74
270.0	44.89	41.46	38.42	35.76	32.88	31.00	29.17	27.79	26.18
315.0	42.57	39.52	36.81	34.43	31.94	30.17	28.62	27.40	25.91
360.0	39.19	35.87	33.54	31.11	29.45	28.01	26.51	25.41	24.52
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	23.86	22.81	22.20	21.48	20.70	19.65	18.93	18.10	17.16
45.0	24.19	23.47	22.75	21.86	21.26	20.54	19.76	18.82	18.10
90.0	24.19	23.19	22.31	21.59	20.76	19.98	19.04	18.38	17.60
135.0	25.63	24.41	23.64	22.53	21.75	21.03	20.20	19.10	18.38
180.0	25.68	24.30	23.53	22.81	22.03	21.20	20.48	19.65	18.88
225.0	23.80	23.14	22.09	21.59	20.92	20.04	19.10	18.43	17.66
270.0	25.02	24.19	23.25	22.42	21.59	20.81	19.98	19.21	18.27
315.0	25.08	24.24	23.08	22.42	21.70	20.48	19.65	18.88	17.82
360.0	23.86	22.81	22.20	21.48	20.70	19.65	18.93	18.10	17.16
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	16.55	15.94	15.22	14.67	14.06	13.56	13.12	12.68	12.18
45.0	17.16	16.55	15.94	15.22	14.72	14.28	13.84	13.23	12.79
90.0	16.94	16.33	15.67	15.06	14.56	14.12	13.51	13.01	12.57
135.0	17.71	16.94	16.22	15.67	15.11	14.56	14.00	13.56	12.95
180.0	17.93	17.16	16.33	15.78	15.17	14.50	14.06	13.62	13.06
225.0	16.88	16.16	15.61	15.06	14.45	14.06	13.62	13.12	12.68
270.0	17.44	16.77	16.22	15.50	14.89	14.39	14.00	13.40	12.95
315.0	17.10	16.50	15.72	15.11	14.61	14.12	13.51	13.01	12.62
360.0	16.55	15.94	15.22	14.67	14.06	13.56	13.12	12.68	12.18
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	11.62	11.29	10.90	10.57	10.13	9.80	9.52	9.13	8.86
45.0	12.34	11.90	11.40	11.07	10.68	10.30	9.96	9.63	9.30
90.0	12.01	11.62	11.18	10.79	10.46	10.07	9.80	9.47	9.19
135.0	12.45	11.96	11.57	11.18	10.85	10.41	10.07	9.74	9.47
180.0	12.62	12.18	11.79	11.35	10.96	10.63	10.30	9.91	9.63
225.0	12.29	11.90	11.62	11.35	11.07	10.68	10.35	10.07	9.74
270.0	12.45	12.07	11.68	11.24	10.90	10.57	10.19	9.91	9.58
315.0	12.18	11.68	11.29	10.90	10.46	10.13	9.74	9.41	9.13
360.0	11.62	11.29	10.90	10.57	10.13	9.80	9.52	9.13	8.86
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	8.58	8.36	8.08	7.92	7.64	7.42	7.25	7.09	7.20
45.0	9.02	8.75	8.47	8.25	8.03	7.69	7.47	7.31	7.14
90.0	8.91	8.64	8.41	8.14	7.80	7.64	7.47	7.25	7.09
135.0	9.13	8.86	8.58	8.25	8.03	7.75	7.58	7.36	7.25
180.0	9.35	9.02	8.69	8.47	8.19	7.86	7.64	7.42	7.25
225.0	9.41	9.02	8.75	8.47	8.25	7.58	7.42	7.25	7.09
270.0	9.19	8.97	8.64	8.36	8.14	7.92	7.47	7.31	7.09
315.0	8.91	8.64	8.41	8.14	7.97	7.64	7.42	7.31	7.09
360.0	8.58	8.36	8.08	7.92	7.64	7.42	7.25	7.09	7.20

Intensity data(cd)

C/γ(°)	90.0
0.0	7.14
45.0	7.09
90.0	7.09
135.0	7.09
180.0	7.09
225.0	7.14
270.0	7.09
315.0	7.14
360.0	7.14