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NT

Client:

LumCAT: 2-2681-L

Luminaire: 92.70.411.00

Report No: 2024402-B009

Ballast type: AC

Test No: 2024402-C009

Voltage(V): 35.150

LampCAT: LUMILEDS LUXEON 1205

Current(A): 0.485

Lamp flux(lm): 2202.0

Power (W): 17.047

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1830.05, Efficiency(%): 83.11% , Luminous Efficacy(lm/W): 107.35

Central intensity(cd): 3382.367, Maximum intensity(cd): 3382.367

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=43.6

[C90/270]Total=43.6

Field angle(10%Imax): [C0/180]Total=67.4

[C90/270]Total=67.4

Maximum s/h(1/2): C0_180=0.70 C90_270=0.70

Maximum s/h(1/4): C0_180=0.69 C90_270=0.69

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 83.11%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.761%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/4/02
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3382.366	0.000	0	0.00%	0.00%
1.0	3380.026	3.236	3.236	0.15%	0.18%
2.0	3366.858	9.684	12.919	0.44%	0.71%
3.0	3347.546	16.059	28.978	0.73%	1.58%
4.0	3314.700	22.301	51.279	1.01%	2.80%
5.0	3276.294	28.354	79.633	1.29%	4.35%
6.0	3227.648	34.180	113.813	1.55%	6.22%
7.0	3170.369	39.712	153.525	1.80%	8.39%
8.0	3107.384	44.929	198.454	2.04%	10.84%
9.0	3034.011	49.773	248.227	2.26%	13.56%
10.0	2957.566	54.222	302.448	2.46%	16.53%
11.0	2877.244	58.302	360.75	2.65%	19.71%
12.0	2790.484	61.956	422.706	2.81%	23.10%
13.0	2698.165	65.136	487.843	2.96%	26.66%
14.0	2595.897	67.764	555.606	3.08%	30.36%
15.0	2499.481	69.952	625.558	3.18%	34.18%
16.0	2397.872	71.760	697.318	3.26%	38.10%
17.0	2275.633	72.779	770.097	3.31%	42.08%
18.0	2161.880	73.165	843.262	3.32%	46.08%
19.0	2046.078	73.210	916.472	3.32%	50.08%
20.0	1915.061	72.500	988.971	3.29%	54.04%
21.0	1794.358	71.228	1060.2	3.23%	57.93%
22.0	1664.877	69.515	1129.715	3.16%	61.73%
23.0	1514.577	66.714	1196.428	3.03%	65.38%
24.0	1387.247	63.444	1259.872	2.88%	68.84%
25.0	1243.984	59.828	1319.701	2.72%	72.11%
26.0	1155.373	56.637	1376.338	2.57%	75.21%
27.0	1044.707	53.825	1430.163	2.44%	78.15%
28.0	922.337	49.801	1479.965	2.26%	80.87%
29.0	801.444	45.099	1525.064	2.05%	83.33%
30.0	675.298	39.872	1564.935	1.81%	85.51%
31.0	571.085	34.685	1599.621	1.58%	87.41%
32.0	477.683	30.046	1629.666	1.36%	89.05%
33.0	387.441	25.487	1655.153	1.16%	90.44%
34.0	318.004	21.349	1676.502	0.97%	91.61%
35.0	266.768	18.161	1694.663	0.82%	92.60%
36.0	201.771	14.918	1709.581	0.68%	93.42%
37.0	152.619	11.558	1721.14	0.52%	94.05%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	107.462	8.681	1729.821	0.39%	94.52%
39.0	82.846	6.496	1736.316	0.29%	94.88%
40.0	64.667	5.145	1741.461	0.23%	95.16%
41.0	53.080	4.193	1745.654	0.19%	95.39%
42.0	44.477	3.544	1749.199	0.16%	95.58%
43.0	39.239	3.101	1752.3	0.14%	95.75%
44.0	35.655	2.827	1755.126	0.13%	95.91%
45.0	32.992	2.638	1757.765	0.12%	96.05%
46.0	30.819	2.496	1760.26	0.11%	96.19%
47.0	29.013	2.380	1762.64	0.11%	96.32%
48.0	27.710	2.293	1764.933	0.10%	96.44%
49.0	26.598	2.230	1767.163	0.10%	96.56%
50.0	25.582	2.176	1769.339	0.10%	96.68%
51.0	24.675	2.126	1771.465	0.10%	96.80%
52.0	23.928	2.086	1773.55	0.09%	96.91%
53.0	23.211	2.051	1775.601	0.09%	97.02%
54.0	22.597	2.019	1777.62	0.09%	97.13%
55.0	21.939	1.988	1779.608	0.09%	97.24%
56.0	21.331	1.955	1781.563	0.09%	97.35%
57.0	20.732	1.923	1783.487	0.09%	97.46%
58.0	20.190	1.892	1785.379	0.09%	97.56%
59.0	19.627	1.861	1787.24	0.08%	97.66%
60.0	19.093	1.829	1789.07	0.08%	97.76%
61.0	18.596	1.799	1790.868	0.08%	97.86%
62.0	18.091	1.768	1792.636	0.08%	97.96%
63.0	17.593	1.736	1794.371	0.08%	98.05%
64.0	17.111	1.703	1796.074	0.08%	98.14%
65.0	16.628	1.670	1797.744	0.08%	98.23%
66.0	16.145	1.635	1799.379	0.07%	98.32%
67.0	15.699	1.601	1800.98	0.07%	98.41%
68.0	15.443	1.578	1802.558	0.07%	98.50%
69.0	15.326	1.570	1804.128	0.07%	98.58%
70.0	15.282	1.572	1805.699	0.07%	98.67%
71.0	14.777	1.554	1807.253	0.07%	98.75%
72.0	14.477	1.521	1808.774	0.07%	98.84%
73.0	14.367	1.508	1810.283	0.07%	98.92%
74.0	13.775	1.479	1811.762	0.07%	99.00%
75.0	13.760	1.455	1813.217	0.07%	99.08%

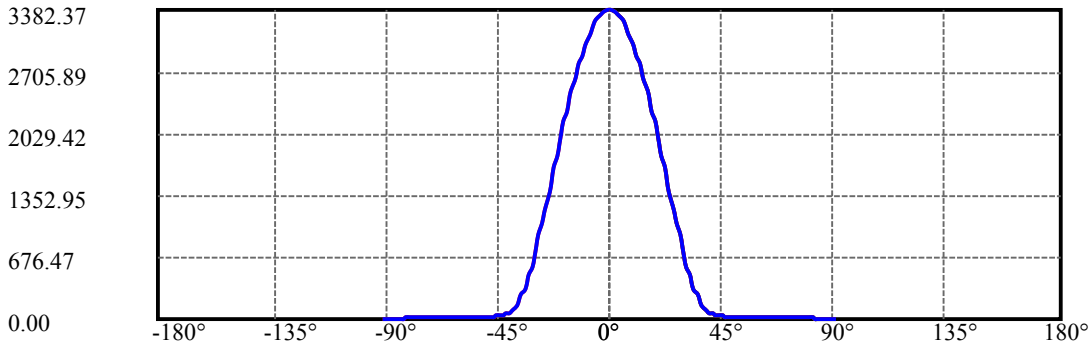
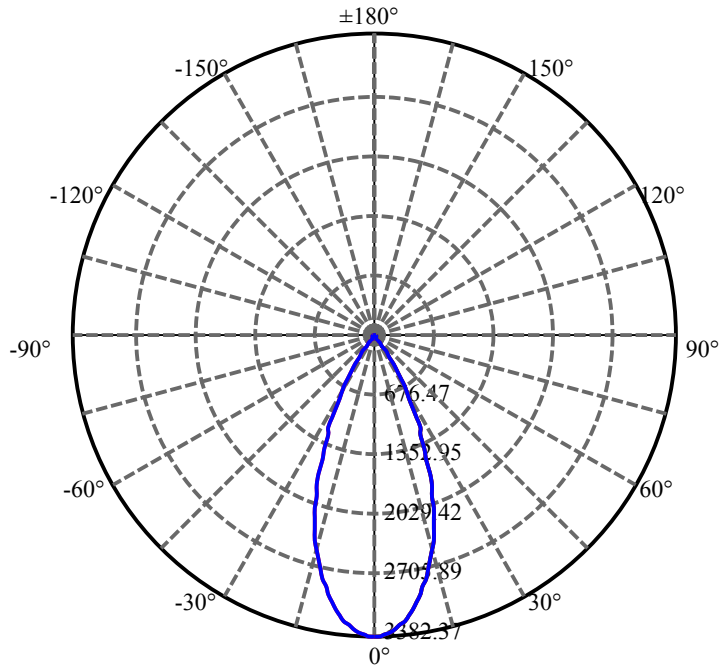
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	13.328	1.438	1814.655	0.07%	99.16%
77.0	13.051	1.406	1816.061	0.06%	99.24%
78.0	12.626	1.374	1817.436	0.06%	99.31%
79.0	12.217	1.335	1818.771	0.06%	99.38%
80.0	11.639	1.286	1820.057	0.06%	99.45%
81.0	11.053	1.227	1821.284	0.06%	99.52%
82.0	10.468	1.167	1822.451	0.05%	99.58%
83.0	9.927	1.109	1823.56	0.05%	99.65%
84.0	9.378	1.052	1824.611	0.05%	99.70%
85.0	8.881	0.997	1825.608	0.05%	99.76%
86.0	8.383	0.944	1826.551	0.04%	99.81%
87.0	8.098	0.902	1827.453	0.04%	99.86%
88.0	7.922	0.878	1828.331	0.04%	99.91%
89.0	7.835	0.864	1829.195	0.04%	99.95%
90.0	7.783	0.856	1830.051	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1564.94	71.07%	85.51%
0-40	1741.46	79.09%	95.16%
0-60	1789.07	81.25%	97.76%
0-90	1829.19	83.07%	99.95%
0-120	1829.19	83.07%	99.95%
0-180	1830.05	83.11%	100.00%
60-90	40.13	1.82%	2.19%
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%
0-27.68	1464.04	66.49%	80.00%

ZONAL LUMEN SUMMARY

0-10	302.45
10-20	686.52
20-30	575.96
30-40	176.53
40-50	27.88
50-60	19.73
60-70	16.63
70-80	14.36
80-90	9.14
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: —————

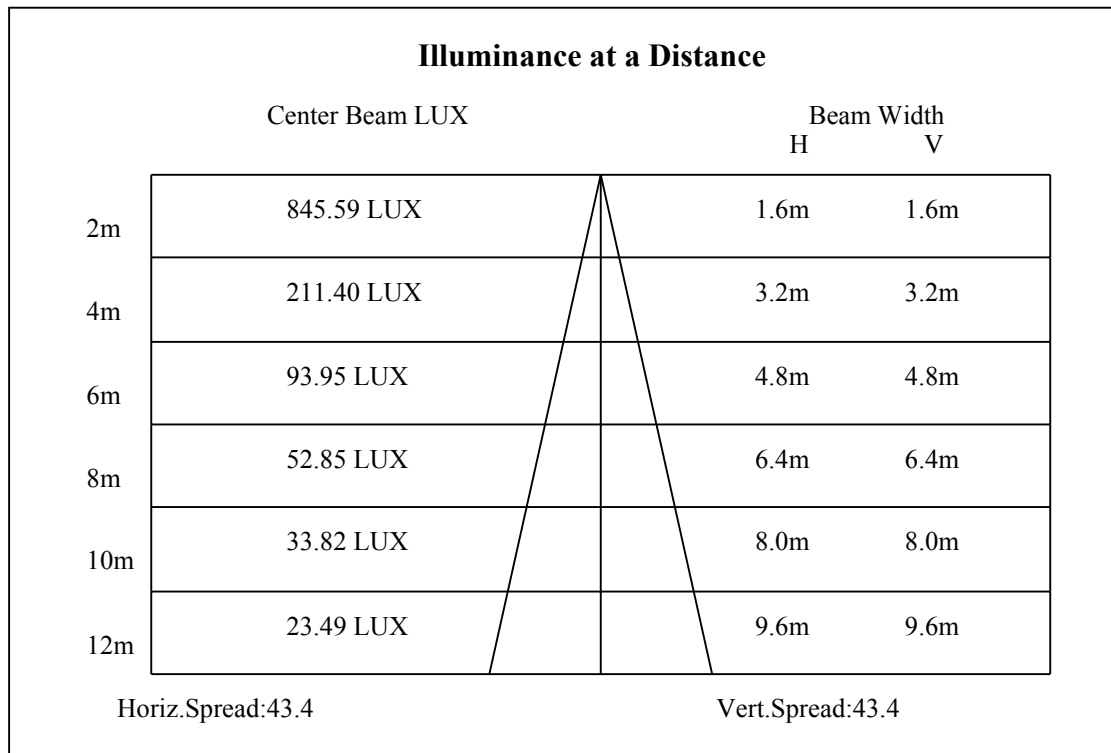
C90/C270: —————

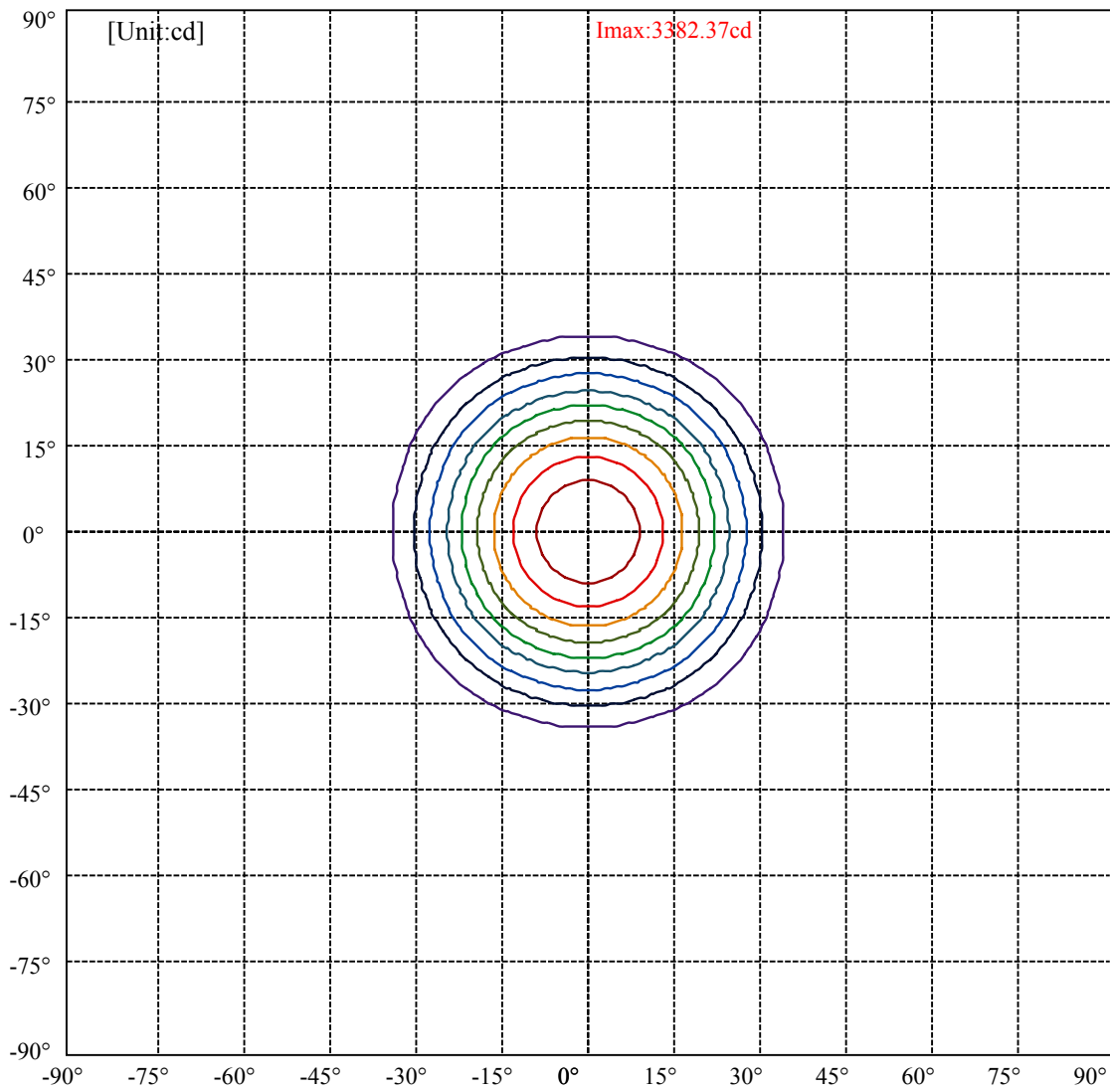
Field angle(10%Imax):C0/180Left:33.7 Right:33.7

:C90/270Left:33.7 Right:33.7

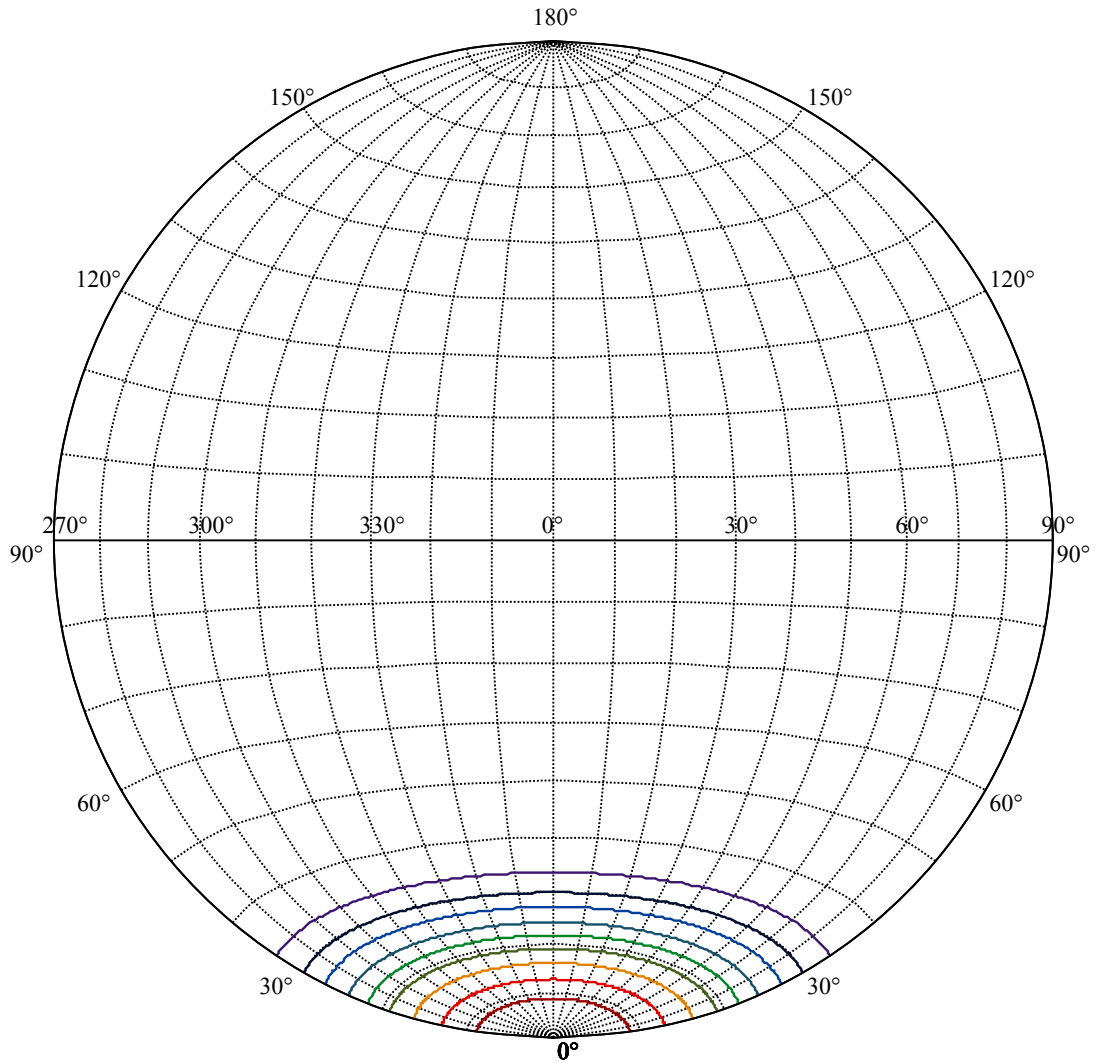
Beam Angle(50%Imax):C0/180Left:21.8 Right:21.8

:C90/270Left:21.8 Right:21.8





(10%Imax) 338.237	—
(20%Imax) 676.473	—
(30%Imax) 1014.71	—
(40%Imax) 1352.95	—
(50%Imax) 1691.18	—
(60%Imax) 2029.42	—
(70%Imax) 2367.66	—
(80%Imax) 2705.89	—
(90%Imax) 3044.13	—



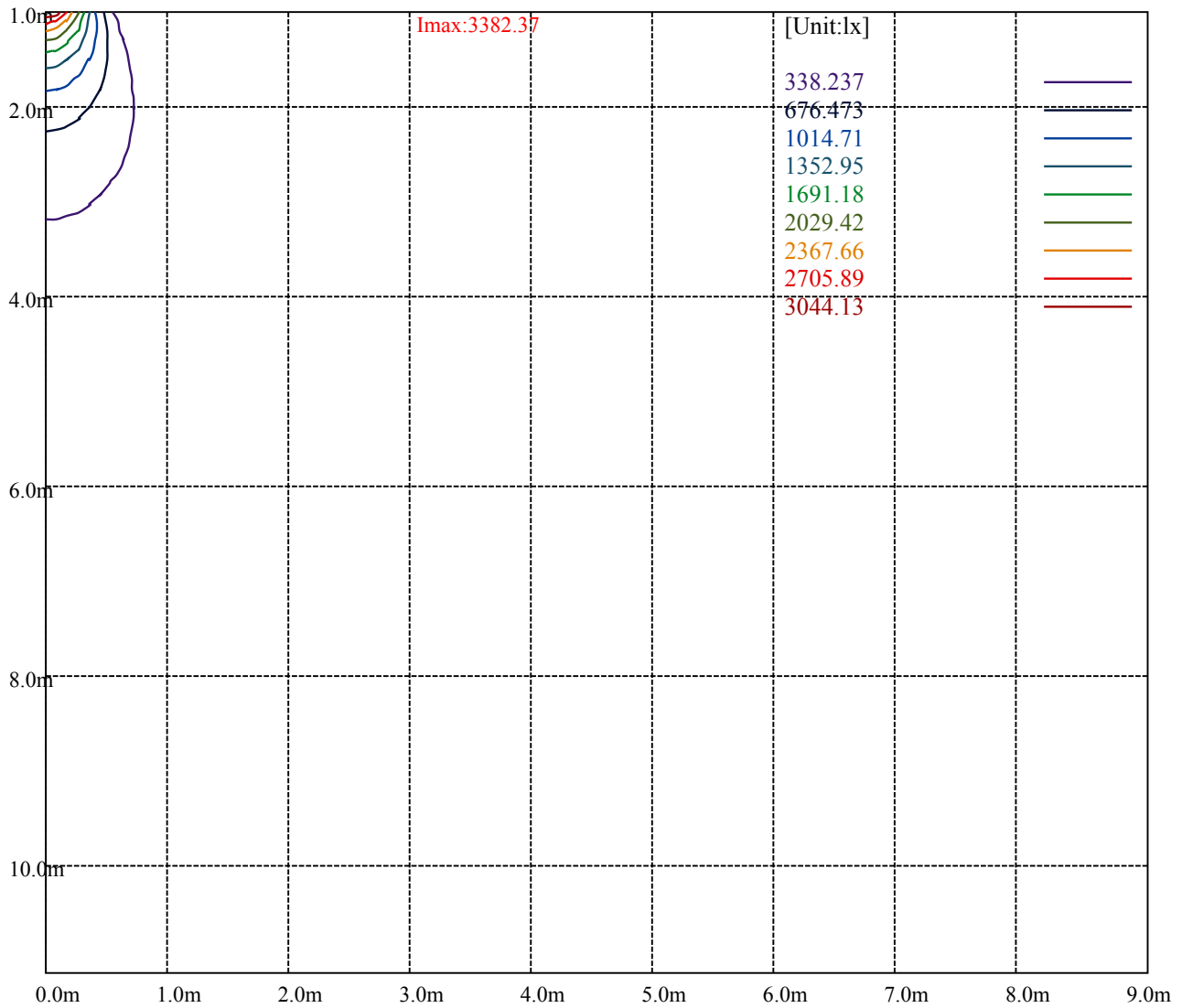
House

[Unit:cd]

Road

Imax:3382.37

(10%Imax)	338.237	—
(20%Imax)	676.473	—
(30%Imax)	1014.71	—
(40%Imax)	1352.95	—
(50%Imax)	1691.18	—
(60%Imax)	2029.42	—
(70%Imax)	2367.66	—
(80%Imax)	2705.89	—
(90%Imax)	3044.13	—



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

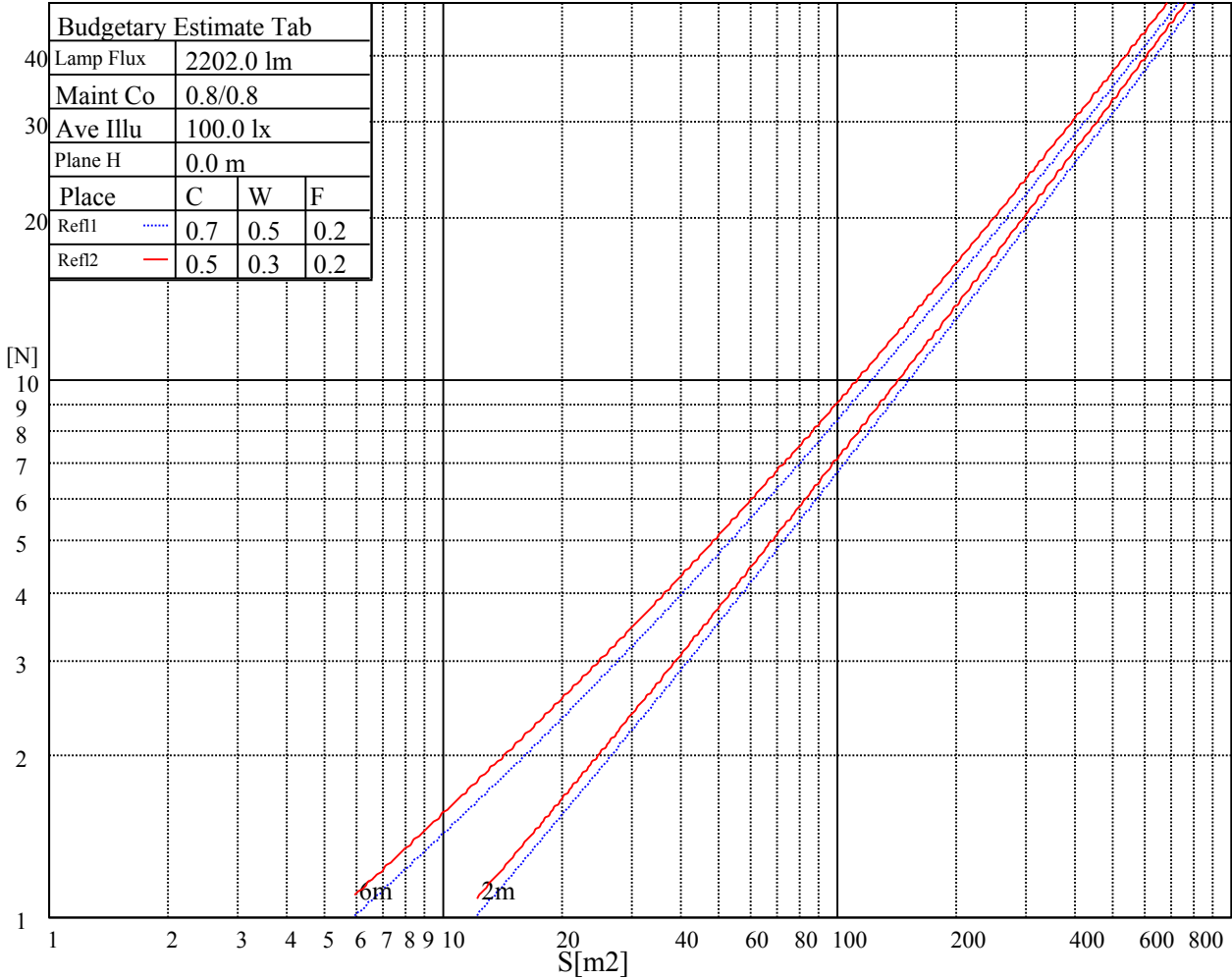
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

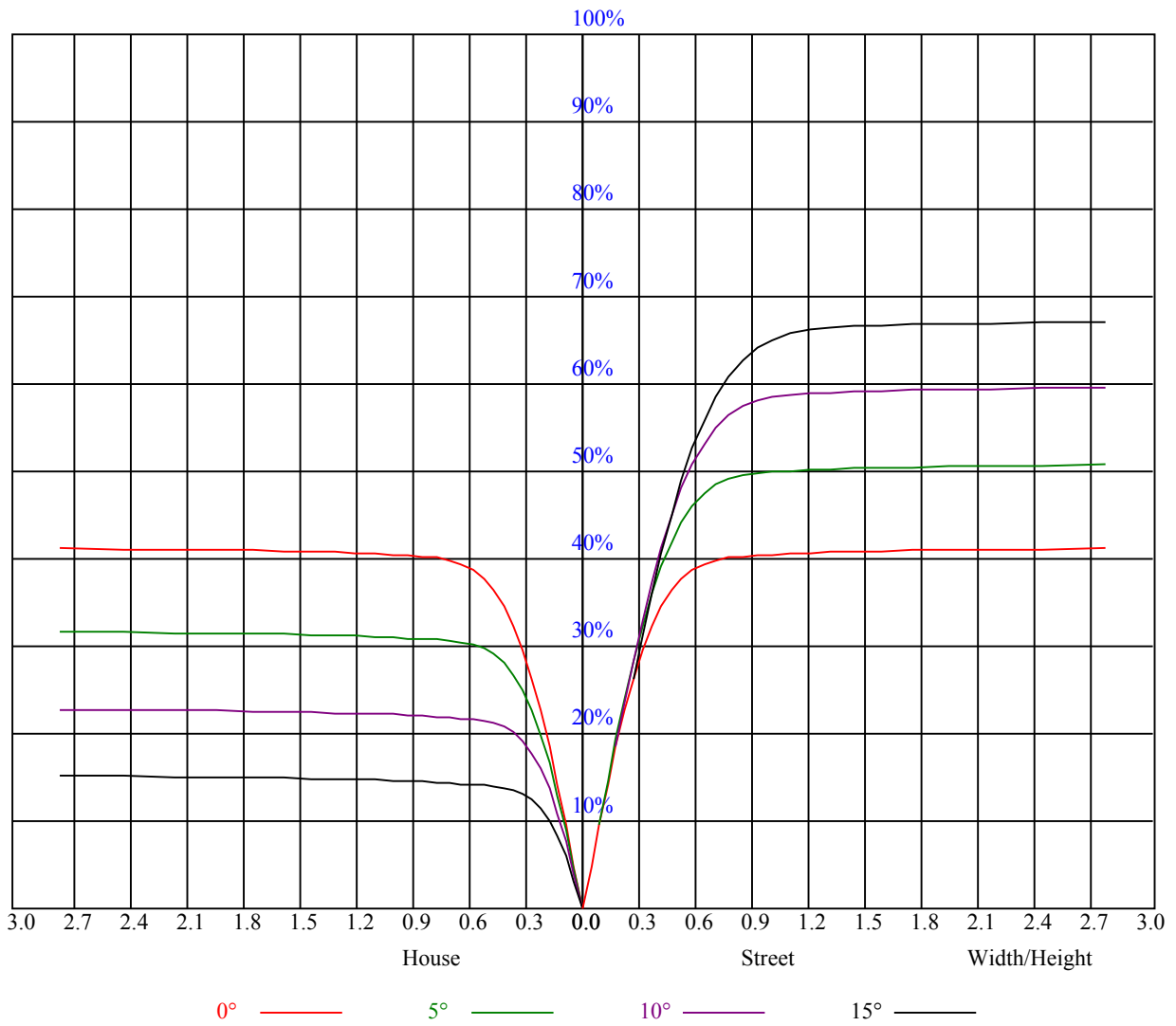


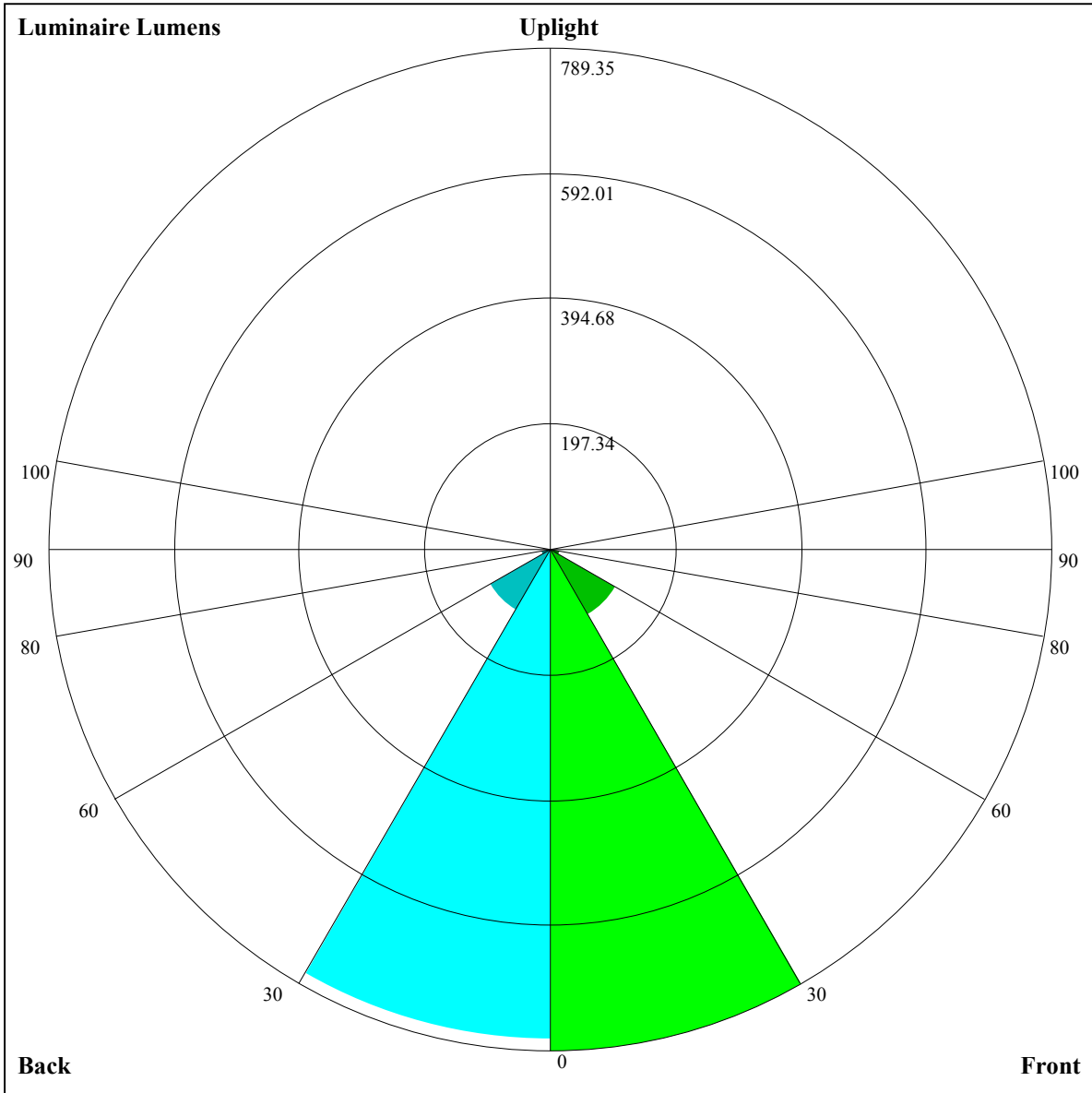
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	3H	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	0.99	0.99	0.99	0.97	0.97	0.97	0.92	0.92	0.92	0.88	0.88	0.88	0.85	0.85	0.85	0.83
1	0.92	0.90	0.89	0.91	0.89	0.87	0.87	0.86	0.84	0.84	0.83	0.82	0.81	0.80	0.80	0.78
2	0.87	0.83	0.81	0.85	0.82	0.80	0.82	0.80	0.78	0.80	0.78	0.76	0.78	0.76	0.75	0.74
3	0.82	0.78	0.75	0.80	0.77	0.74	0.78	0.75	0.73	0.76	0.74	0.72	0.74	0.72	0.71	0.69
4	0.77	0.73	0.70	0.76	0.72	0.69	0.74	0.71	0.69	0.73	0.70	0.68	0.71	0.69	0.67	0.66
5	0.73	0.69	0.65	0.72	0.68	0.65	0.71	0.67	0.65	0.70	0.66	0.64	0.68	0.66	0.64	0.62
6	0.69	0.65	0.62	0.69	0.65	0.62	0.68	0.64	0.61	0.66	0.63	0.61	0.65	0.63	0.60	0.59
7	0.66	0.62	0.59	0.66	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.58	0.63	0.60	0.57	0.56
8	0.63	0.59	0.56	0.63	0.58	0.55	0.62	0.58	0.55	0.61	0.57	0.55	0.60	0.57	0.55	0.54
9	0.60	0.56	0.53	0.60	0.56	0.53	0.59	0.55	0.53	0.58	0.55	0.52	0.58	0.55	0.52	0.51
10	0.58	0.53	0.51	0.57	0.53	0.50	0.57	0.53	0.50	0.56	0.53	0.50	0.55	0.52	0.50	0.49





Luminaire Lumens:

FL=789.35,FM=119.01,FH=15.67,FVH=5.06

BL=770.05,BM=109,BH=15.14,BVH=4.96

UL=0,UH=0

BUG Rating:B2-U0-G0

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	3385.59	3386.76	3375.05	3364.52	3327.65	3294.29	3249.81	3186.61	3123.40
45.0	3376.81	3389.10	3386.76	3382.07	3371.54	3336.43	3304.24	3264.44	3221.14
90.0	3383.83	3385.00	3376.22	3355.74	3327.06	3296.05	3245.13	3195.39	3139.79
135.0	3383.24	3383.83	3377.39	3369.20	3341.11	3313.60	3273.22	3217.63	3164.96
180.0	3385.59	3385.59	3368.03	3346.38	3315.94	3263.27	3217.63	3162.61	3084.78
225.0	3376.81	3359.84	3329.40	3295.46	3241.62	3192.46	3132.77	3070.73	3002.26
270.0	3383.83	3379.73	3370.37	3341.11	3305.41	3268.54	3219.38	3147.40	3086.54
315.0	3383.24	3370.37	3351.64	3325.89	3287.27	3245.72	3179.00	3118.14	3036.21
360.0	3385.59	3386.76	3375.05	3364.52	3327.65	3294.29	3249.81	3186.61	3123.40
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3063.71	2979.44	2902.19	2803.29	2719.60	2635.91	2539.35	2445.13	2312.28
45.0	3146.23	3090.05	3019.23	2946.67	2847.76	2767.59	2682.73	2568.61	2464.44
90.0	3074.83	2986.46	2913.89	2838.40	2750.03	2641.76	2548.71	2447.47	2317.55
135.0	3084.19	3020.99	2949.01	2855.37	2771.10	2683.32	2592.02	2496.04	2371.39
180.0	3017.48	2926.77	2855.37	2770.51	2683.32	2561.00	2469.12	2370.80	2235.03
225.0	2903.94	2823.18	2741.84	2649.96	2529.40	2432.25	2309.36	2202.26	2094.58
270.0	3016.89	2940.81	2841.33	2752.96	2665.17	2546.37	2452.74	2353.83	2220.99
315.0	2964.81	2892.83	2795.09	2706.72	2618.94	2498.97	2401.82	2298.82	2188.80
360.0	3063.71	2979.44	2902.19	2803.29	2719.60	2635.91	2539.35	2445.13	2312.28
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2211.62	2101.02	1957.64	1838.25	1722.38	1570.22	1444.98	1155.59	1155.59
45.0	2366.71	2230.94	2127.35	1983.97	1870.44	1750.47	1638.10	1489.46	1371.83
90.0	2211.62	2102.19	1957.64	1834.15	1718.28	1575.48	1454.34	1167.70	1167.70
135.0	2266.63	2158.95	2021.43	1907.31	1787.34	1642.79	1523.98	1409.87	1266.49
180.0	2126.77	2014.40	1886.24	1768.61	1615.86	1498.82	1381.19	1241.91	1133.05
225.0	1947.69	1827.72	1708.33	1589.53	1441.47	1154.94	1154.94	1098.70	955.15
270.0	2117.40	2002.70	1848.78	1737.59	1616.45	1497.06	1353.10	1241.32	1127.20
315.0	2046.59	1930.72	1813.09	1695.46	1546.81	1426.84	1147.33	1147.33	1065.99
360.0	2211.62	2101.02	1957.64	1838.25	1722.38	1570.22	1444.98	1155.59	1155.59
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1068.21	952.86	839.10	701.51	595.17	499.37	413.40	322.81	260.72
45.0	1256.54	1141.25	1003.13	890.19	774.90	669.56	544.32	451.85	354.70
90.0	1087.00	967.14	854.84	743.00	611.27	516.99	425.40	331.30	268.33
135.0	1151.20	1033.57	887.26	771.97	661.95	560.12	444.83	365.82	299.69
180.0	988.50	876.73	763.19	625.66	529.10	441.32	362.31	309.06	309.06
225.0	840.73	726.26	615.95	488.84	403.86	314.62	254.10	200.32	145.19
270.0	1013.67	872.04	752.66	613.96	519.15	427.86	334.22	302.62	302.62
315.0	951.81	808.84	695.42	567.26	473.27	391.63	320.94	260.25	193.83
360.0	1068.21	952.86	839.10	701.51	595.17	499.37	413.40	322.81	260.72
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	204.83	148.82	114.41	87.96	66.48	55.13	45.47	40.32	36.69
45.0	304.96	304.96	165.21	125.41	95.98	75.20	58.11	49.04	42.78
90.0	211.38	151.98	114.94	87.37	65.14	53.72	45.94	39.50	36.05
135.0	299.69	168.90	127.75	96.97	71.22	58.17	47.40	41.61	37.63
180.0	167.73	126.99	92.29	72.28	58.76	47.75	41.84	36.99	34.06
225.0	111.49	86.20	65.14	53.78	45.53	39.97	35.29	32.66	30.61
270.0	164.39	117.92	90.83	71.63	58.46	47.11	41.02	36.81	33.88
315.0	149.70	115.17	89.13	67.36	55.77	47.58	40.73	36.99	33.53
360.0	204.83	148.82	114.41	87.96	66.48	55.13	45.47	40.32	36.69

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	34.00	31.43	29.79	28.44	27.33	26.16	25.28	24.52	23.64
45.0	38.33	35.23	32.30	30.43	28.62	27.39	26.34	25.28	24.52
90.0	33.36	31.25	29.20	27.92	26.80	25.75	24.76	23.99	23.17
135.0	34.65	31.89	30.14	28.68	27.51	26.22	25.40	24.64	23.99
180.0	31.95	30.14	28.38	27.27	26.28	25.40	24.40	23.76	23.12
225.0	29.03	27.39	26.34	25.22	24.46	23.76	22.94	22.36	21.77
270.0	31.08	29.32	27.68	26.57	25.57	24.64	23.88	23.17	22.41
315.0	31.54	29.90	28.27	27.15	26.22	25.34	24.40	23.70	23.06
360.0	34.00	31.43	29.79	28.44	27.33	26.16	25.28	24.52	23.64
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	23.06	22.47	21.89	21.13	20.54	19.90	19.43	18.96	18.38
45.0	23.88	23.12	22.47	21.83	21.19	20.48	19.96	19.43	18.90
90.0	22.59	21.95	21.24	20.66	20.13	19.61	18.96	18.49	18.02
135.0	23.23	22.65	21.89	21.36	20.89	20.19	19.72	19.20	18.61
180.0	22.47	21.77	21.19	20.60	20.07	19.55	18.96	18.49	18.02
225.0	21.24	20.54	20.07	19.55	19.08	18.55	18.08	17.62	17.03
270.0	21.83	21.30	20.72	20.07	19.61	19.14	18.67	18.08	17.67
315.0	22.47	21.71	21.19	20.66	20.01	19.61	18.96	18.49	18.08
360.0	23.06	22.47	21.89	21.13	20.54	19.90	19.43	18.96	18.38
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	17.91	17.44	16.97	16.44	16.04	16.09	16.80	18.61	17.85
45.0	18.32	17.85	17.26	16.80	16.39	15.80	15.39	14.92	14.51
90.0	17.56	17.03	16.56	16.15	15.57	15.16	14.69	14.28	13.99
135.0	18.14	17.73	17.26	16.68	16.27	15.86	15.39	14.86	14.51
180.0	17.44	16.97	16.50	16.15	15.80	16.33	17.15	17.44	16.15
225.0	16.56	16.15	15.63	15.16	14.63	14.28	13.93	13.58	13.23
270.0	17.21	16.68	16.27	15.68	15.22	14.81	14.40	14.05	13.69
315.0	17.62	17.03	16.56	16.09	15.68	15.22	14.86	14.51	14.28
360.0	17.91	17.44	16.97	16.44	16.04	16.09	16.80	18.61	17.85
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	17.26	18.26	16.33	17.09	15.51	15.27	14.34	13.52	12.64
45.0	14.10	13.69	13.34	12.93	12.70	12.47	12.23	12.00	11.65
90.0	13.52	13.23	12.99	12.82	12.76	12.58	12.41	12.11	11.70
135.0	14.22	13.93	13.81	13.81	13.69	13.58	13.40	13.23	12.58
180.0	16.39	15.74	14.10	13.87	12.87	12.23	11.82	11.47	11.06
225.0	12.82	12.58	12.35	12.06	11.76	11.47	11.12	10.83	10.53
270.0	13.34	13.11	12.87	12.87	12.70	12.58	12.17	11.70	11.24
315.0	14.16	14.40	14.40	14.63	14.63	14.22	13.52	12.87	11.70
360.0	17.26	18.26	16.33	17.09	15.51	15.27	14.34	13.52	12.64
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	11.65	10.71	10.24	9.60	9.01	8.49	8.13	7.96	7.84
45.0	11.29	10.94	10.53	10.18	9.60	9.01	8.43	8.08	7.96
90.0	11.12	10.53	10.12	9.66	9.07	8.49	8.13	8.02	7.90
135.0	11.88	11.06	10.36	9.89	9.36	8.60	8.25	8.02	7.90
180.0	10.77	10.30	9.77	9.19	8.60	8.13	7.96	7.84	7.72
225.0	10.18	9.66	9.01	8.49	8.13	7.96	7.84	7.78	7.78
270.0	10.77	10.30	9.66	9.07	8.72	8.19	8.02	7.84	7.78
315.0	10.77	10.24	9.71	8.95	8.54	8.19	8.02	7.84	7.78
360.0	11.65	10.71	10.24	9.60	9.01	8.49	8.13	7.96	7.84

Intensity data(cd)

C/γ(°)	90.0
0.0	7.78
45.0	7.84
90.0	7.84
135.0	7.78
180.0	7.72
225.0	7.72
270.0	7.78
315.0	7.78
360.0	7.78