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NT

Client:

LumCAT: 2-2456-L

Luminaire: 92.70.412.00

Report No: 2024806-B007

Ballast type: AC

Test No: 2024806-C007

Voltage(V): 35.000

LampCAT: CITIZEN CLU038 LES14.5

Current(A): 0.450

Lamp flux(lm): 2571.0

Power (W): 15.750

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2326.82, Efficiency(%): 90.50% , Luminous Efficacy(lm/W): 147.73

Central intensity(cd): 5129.556, Maximum intensity(cd): 5132.336

Angle of maximum intensity: C=0.0 γ =1.0

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

[C90/270]Total=37.0

Field angle(10%Imax): [C0/180]Total=65.2

[C90/270]Total=65.2

Maximum s/h(1/2): C0_180=0.60 C90_270=0.60

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(%): 90.50%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.979%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/8/6
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	5129.556	0.000	0	0.00%	0.00%
1.0	5132.335	4.910	4.91	0.19%	0.21%
2.0	5104.318	14.693	19.603	0.57%	0.84%
3.0	5058.963	24.307	43.91	0.95%	1.89%
4.0	4989.979	33.637	77.547	1.31%	3.33%
5.0	4896.709	42.532	120.079	1.65%	5.16%
6.0	4791.881	50.916	170.995	1.98%	7.35%
7.0	4671.617	58.740	229.735	2.28%	9.87%
8.0	4521.507	65.793	295.528	2.56%	12.70%
9.0	4364.593	72.017	367.545	2.80%	15.80%
10.0	4188.880	77.406	444.951	3.01%	19.12%
11.0	4017.994	82.004	526.955	3.19%	22.65%
12.0	3822.017	85.703	612.657	3.33%	26.33%
13.0	3637.817	88.529	701.187	3.44%	30.13%
14.0	3449.740	90.720	791.907	3.53%	34.03%
15.0	3250.691	91.986	883.893	3.58%	37.99%
16.0	3057.859	92.438	976.331	3.60%	41.96%
17.0	2853.396	92.054	1068.385	3.58%	45.92%
18.0	2657.638	90.865	1159.25	3.53%	49.82%
19.0	2459.613	89.030	1248.28	3.46%	53.65%
20.0	2267.440	86.518	1334.798	3.37%	57.37%
21.0	2087.995	83.633	1418.431	3.25%	60.96%
22.0	1905.405	80.249	1498.68	3.12%	64.41%
23.0	1735.177	76.389	1575.07	2.97%	67.69%
24.0	1578.045	72.439	1647.509	2.82%	70.81%
25.0	1336.690	66.275	1713.783	2.58%	73.65%
26.0	1263.976	61.389	1775.172	2.39%	76.29%
27.0	1148.424	59.020	1834.192	2.30%	78.83%
28.0	1018.489	54.862	1889.054	2.13%	81.19%
29.0	892.497	49.997	1939.051	1.94%	83.33%
30.0	779.483	45.143	1984.194	1.76%	85.27%
31.0	661.875	40.111	2024.305	1.56%	87.00%
32.0	568.261	35.242	2059.547	1.37%	88.51%
33.0	474.661	30.725	2090.272	1.20%	89.83%
34.0	396.614	26.367	2116.639	1.03%	90.97%
35.0	328.597	22.522	2139.161	0.88%	91.93%
36.0	269.299	19.037	2158.198	0.74%	92.75%
37.0	244.587	16.760	2174.959	0.65%	93.47%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	188.369	14.452	2189.41	0.56%	94.09%
39.0	136.145	11.077	2200.487	0.43%	94.57%
40.0	110.212	8.592	2209.079	0.33%	94.94%
41.0	90.681	7.154	2216.232	0.28%	95.25%
42.0	77.264	6.102	2222.334	0.24%	95.51%
43.0	66.430	5.323	2227.657	0.21%	95.74%
44.0	59.049	4.736	2232.393	0.18%	95.94%
45.0	53.043	4.308	2236.701	0.17%	96.13%
46.0	48.713	3.979	2240.68	0.15%	96.30%
47.0	44.879	3.722	2244.403	0.14%	96.46%
48.0	41.668	3.499	2247.901	0.14%	96.61%
49.0	38.888	3.308	2251.209	0.13%	96.75%
50.0	36.438	3.141	2254.35	0.12%	96.89%
51.0	34.389	2.997	2257.347	0.12%	97.01%
52.0	32.487	2.870	2260.216	0.11%	97.14%
53.0	30.717	2.749	2262.966	0.11%	97.26%
54.0	29.261	2.644	2265.609	0.10%	97.37%
55.0	27.879	2.551	2268.16	0.10%	97.48%
56.0	26.686	2.466	2270.626	0.10%	97.58%
57.0	25.567	2.389	2273.015	0.09%	97.69%
58.0	24.609	2.320	2275.335	0.09%	97.79%
59.0	23.731	2.260	2277.595	0.09%	97.88%
60.0	22.941	2.205	2279.8	0.09%	97.98%
61.0	22.122	2.150	2281.95	0.08%	98.07%
62.0	21.405	2.097	2284.048	0.08%	98.16%
63.0	20.775	2.051	2286.099	0.08%	98.25%
64.0	20.110	2.006	2288.105	0.08%	98.34%
65.0	19.568	1.964	2290.069	0.08%	98.42%
66.0	18.976	1.923	2291.992	0.07%	98.50%
67.0	18.420	1.880	2293.872	0.07%	98.58%
68.0	17.901	1.840	2295.712	0.07%	98.66%
69.0	17.359	1.799	2297.511	0.07%	98.74%
70.0	16.796	1.754	2299.265	0.07%	98.82%
71.0	16.277	1.709	2300.975	0.07%	98.89%
72.0	15.743	1.665	2302.64	0.06%	98.96%
73.0	15.252	1.621	2304.26	0.06%	99.03%
74.0	14.835	1.582	2305.842	0.06%	99.10%
75.0	14.433	1.546	2307.389	0.06%	99.16%

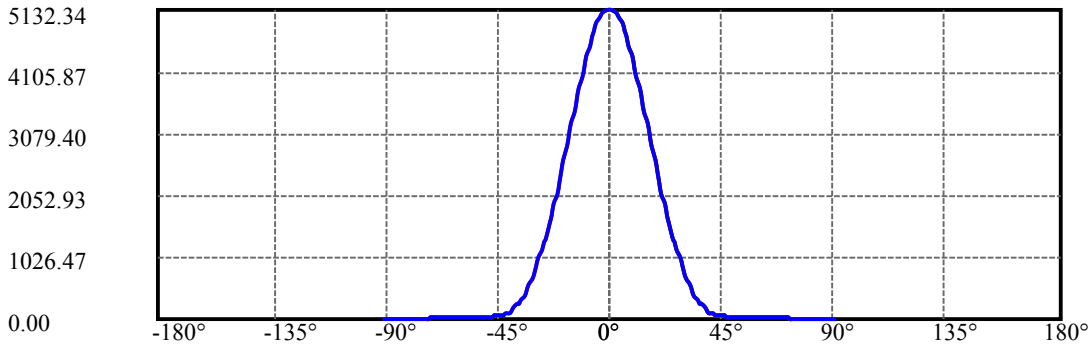
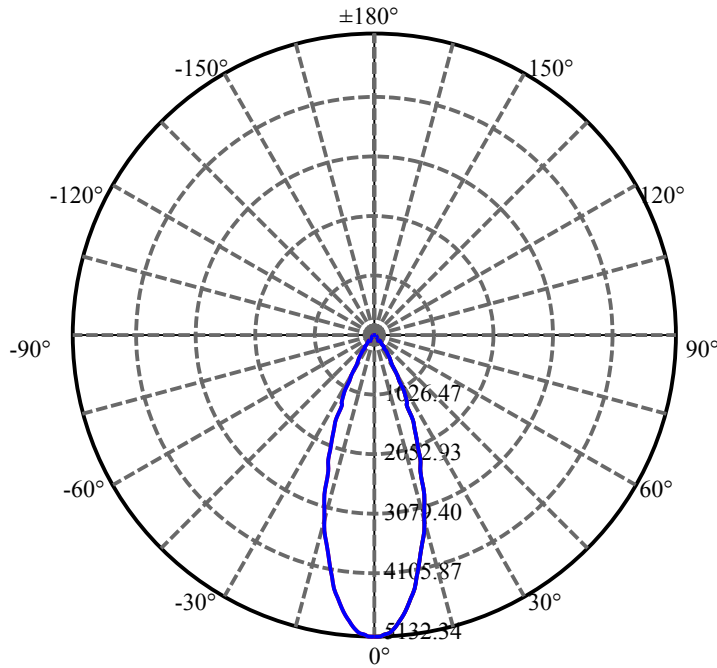
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	14.038	1.511	2308.9	0.06%	99.23%
77.0	13.687	1.478	2310.378	0.06%	99.29%
78.0	13.314	1.445	2311.824	0.06%	99.36%
79.0	12.992	1.413	2313.237	0.05%	99.42%
80.0	12.641	1.382	2314.619	0.05%	99.48%
81.0	12.297	1.349	2315.967	0.05%	99.53%
82.0	11.961	1.315	2317.283	0.05%	99.59%
83.0	11.675	1.285	2318.568	0.05%	99.65%
84.0	11.361	1.255	2319.823	0.05%	99.70%
85.0	11.119	1.227	2321.05	0.05%	99.75%
86.0	10.885	1.203	2322.252	0.05%	99.80%
87.0	10.644	1.178	2323.431	0.05%	99.85%
88.0	10.402	1.153	2324.584	0.04%	99.90%
89.0	10.205	1.130	2325.713	0.04%	99.95%
90.0	10.044	1.110	2326.823	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1984.19	77.18%	85.27%
0-40	2209.08	85.92%	94.94%
0-60	2279.80	88.67%	97.98%
0-90	2325.71	90.46%	99.95%
0-120	2325.71	90.46%	99.95%
0-180	2326.82	90.50%	100.00%
60-90	45.91	1.79%	1.97%
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%
0-27.50	1861.46	72.40%	80.00%

ZONAL LUMEN SUMMARY

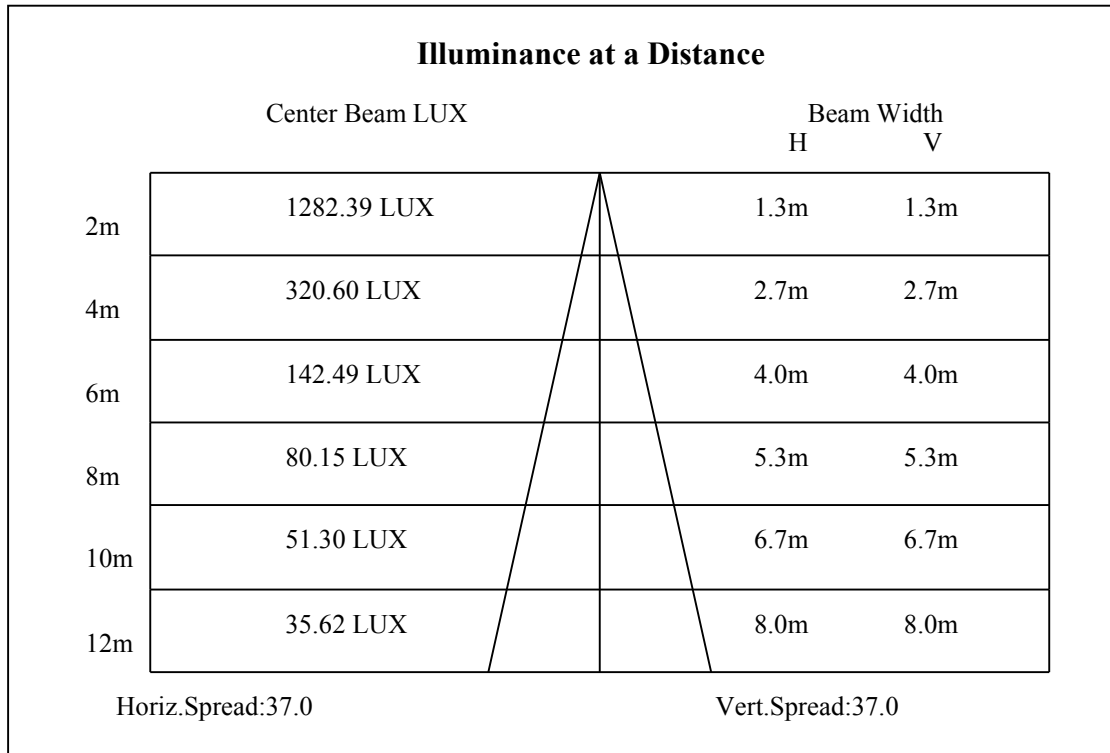
0-10	444.95
10-20	889.85
20-30	649.40
30-40	224.88
40-50	45.27
50-60	25.45
60-70	19.47
70-80	15.35
80-90	11.09
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

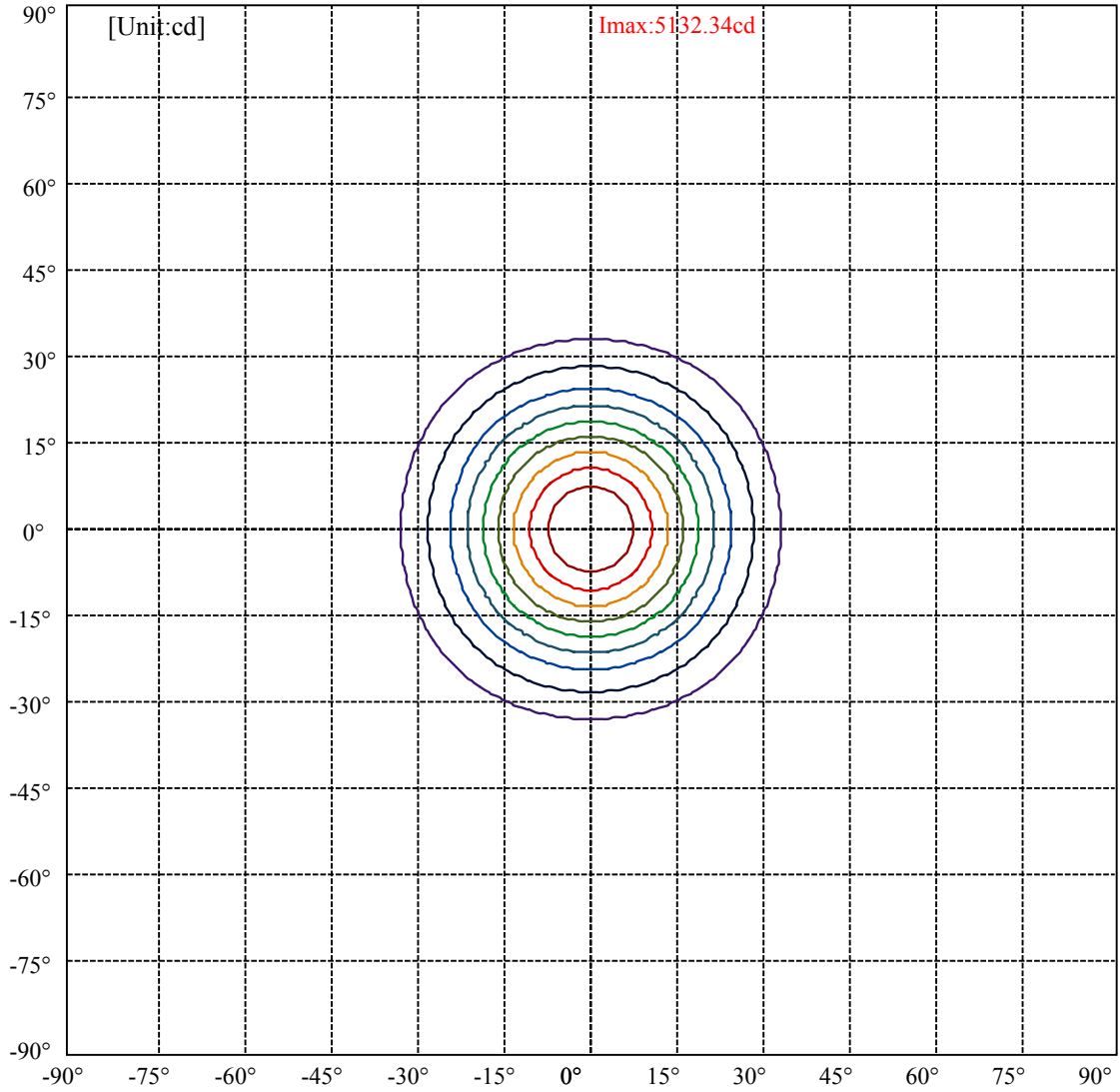


C0(Max): —————
C0/C180: —————
C90/C270: —————

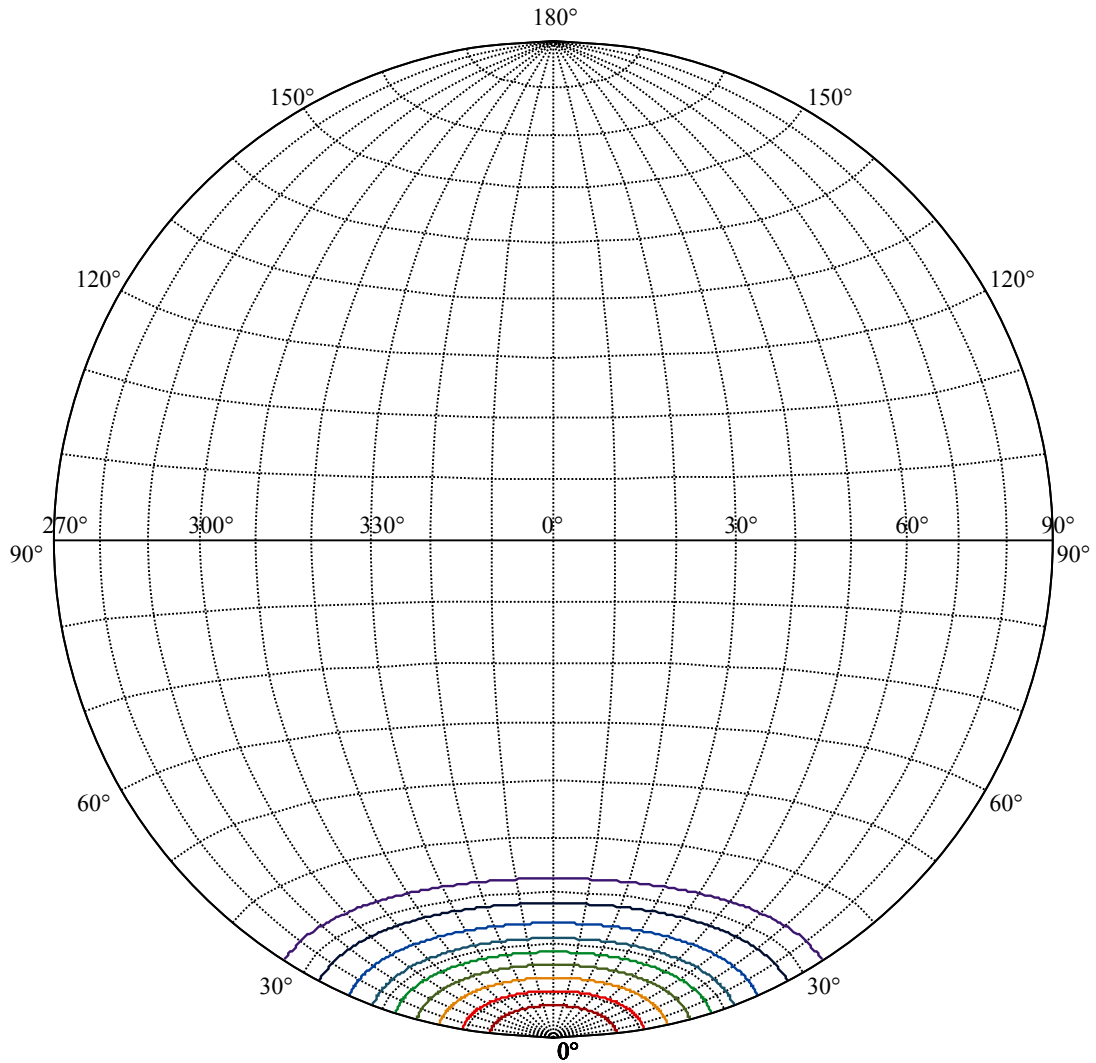
Field angle(10%Imax):C0/180Left:33.6 Right:31.6
:C90/270Left:33.6 Right:31.6

Beam Angle(50%Imax):C0/180Left:19.5 Right:17.5
:C90/270Left:19.5 Right:17.5





(10%Imax) 513.234	—
(20%Imax) 1026.47	—
(30%Imax) 1539.7	—
(40%Imax) 2052.93	—
(50%Imax) 2566.17	—
(60%Imax) 3079.4	—
(70%Imax) 3592.64	—
(80%Imax) 4105.87	—
(90%Imax) 4619.1	—



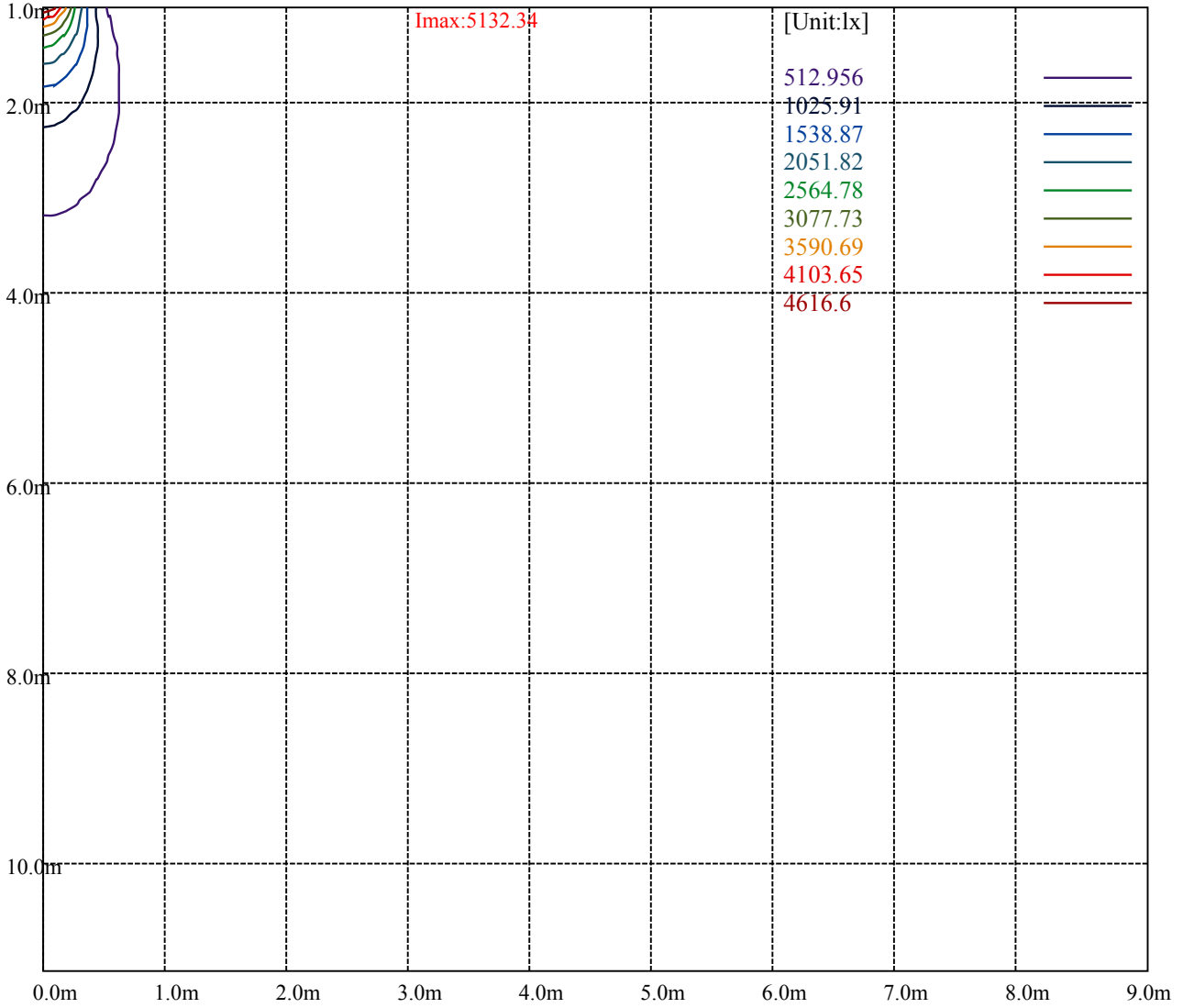
House

[Unit:cd]

Road

Imax:5132.34

(10%Imax) 513.234	—
(20%Imax) 1026.47	—
(30%Imax) 1539.7	—
(40%Imax) 2052.93	—
(50%Imax) 2566.17	—
(60%Imax) 3079.4	—
(70%Imax) 3592.64	—
(80%Imax) 4105.87	—
(90%Imax) 4619.1	—



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

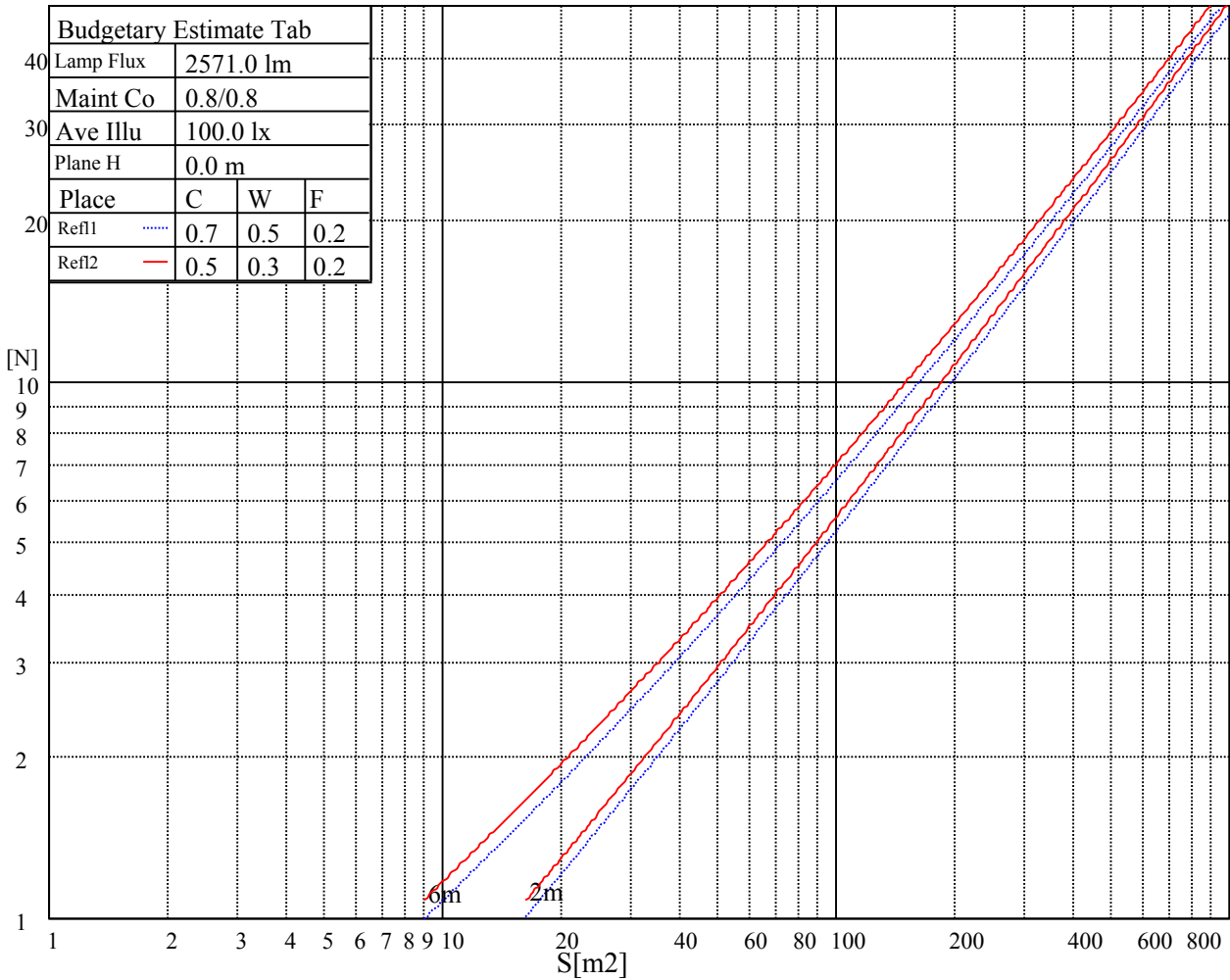
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

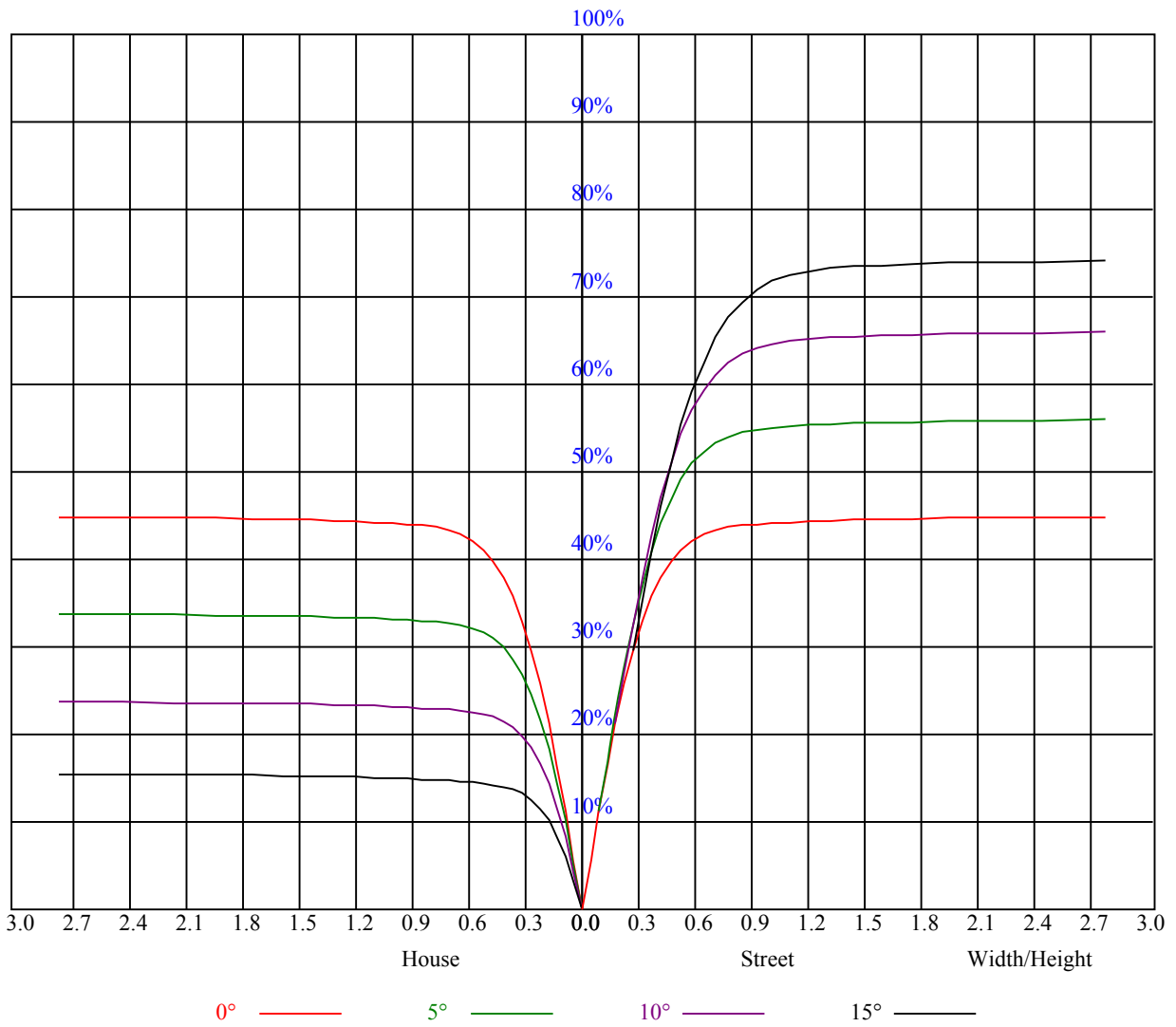


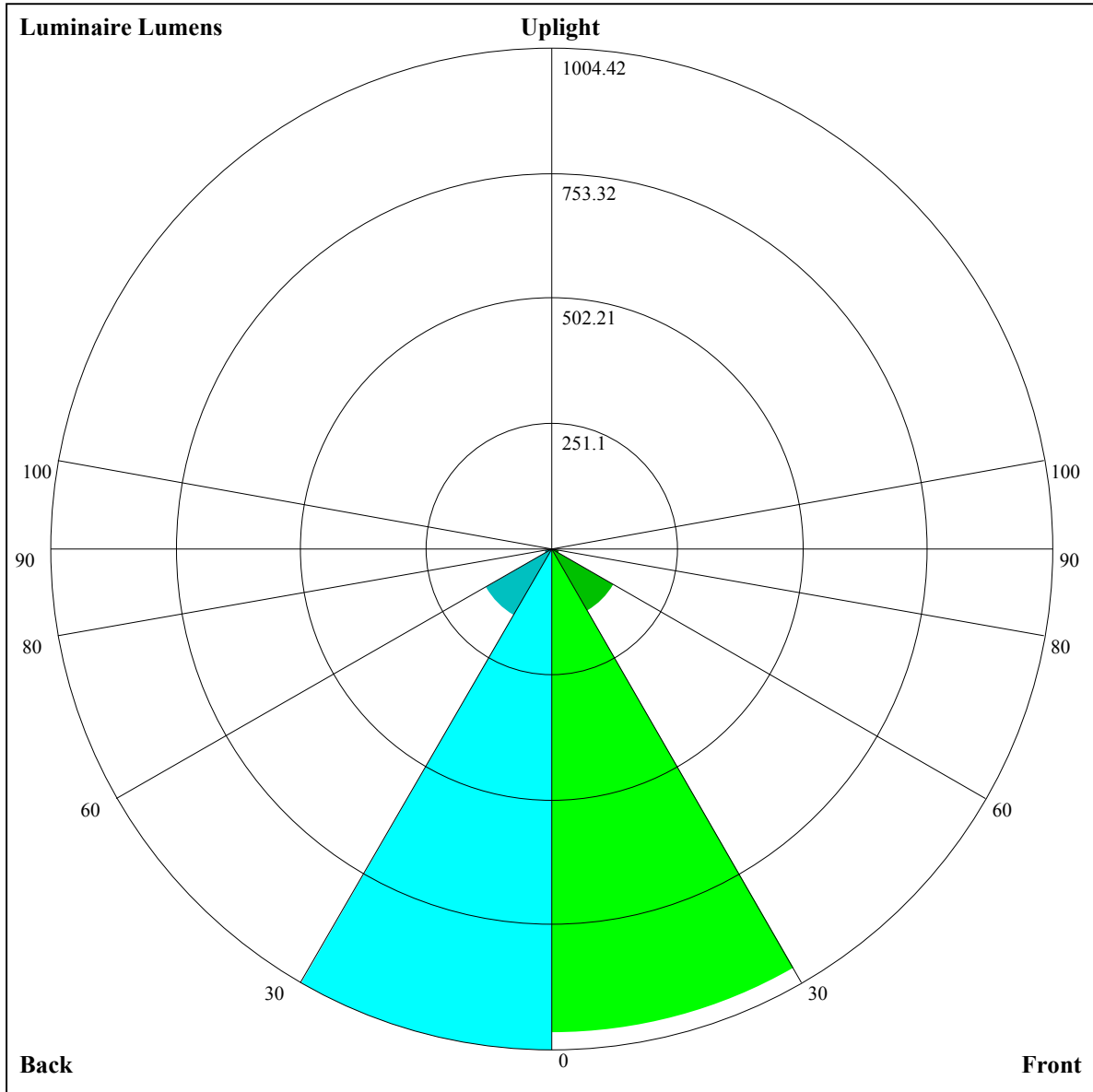
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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	1.05	1.05	1.05	1.01	1.01	1.01	0.96	0.96	0.96	0.92	0.92	0.92	0.91
1	1.01	0.99	0.97	0.99	0.97	0.95	0.95	0.94	0.92	0.92	0.91	0.89	0.89	0.88	0.87	0.85
2	0.95	0.91	0.88	0.93	0.90	0.87	0.90	0.88	0.86	0.87	0.85	0.84	0.85	0.83	0.82	0.81
3	0.89	0.85	0.82	0.88	0.84	0.81	0.86	0.83	0.80	0.84	0.81	0.79	0.82	0.79	0.78	0.76
4	0.84	0.80	0.77	0.83	0.79	0.76	0.82	0.78	0.75	0.80	0.77	0.74	0.78	0.76	0.74	0.72
5	0.80	0.76	0.72	0.79	0.75	0.72	0.78	0.74	0.71	0.76	0.73	0.71	0.75	0.72	0.70	0.69
6	0.76	0.72	0.68	0.76	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.67	0.72	0.69	0.67	0.66
7	0.73	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
8	0.70	0.65	0.62	0.69	0.65	0.62	0.68	0.64	0.61	0.67	0.64	0.61	0.67	0.63	0.61	0.60
9	0.67	0.62	0.59	0.66	0.62	0.59	0.65	0.61	0.59	0.65	0.61	0.58	0.64	0.61	0.58	0.57
10	0.64	0.59	0.56	0.64	0.59	0.56	0.63	0.59	0.56	0.62	0.59	0.56	0.62	0.58	0.56	0.55





Luminaire Lumens:

FL=970.61,FM=143.54,FH=17.27,FVH=6.08

BL=1004.42,BM=155.34,BH=17.48,BVH=6.11

UL=0,UH=0

BUG Rating:B3-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	5131.31	5105.56	5049.97	4984.42	4889.61	4780.76	4665.47	4544.92	4394.51
45.0	5128.97	5138.92	5117.85	5076.30	4997.29	4911.27	4814.70	4711.12	4544.33
90.0	5137.75	5134.82	5089.76	5042.36	4963.94	4845.72	4746.23	4575.35	4431.38
135.0	5120.19	5147.70	5150.62	5127.21	5080.98	4999.05	4910.10	4818.22	4664.30
180.0	5131.31	5141.85	5145.36	5121.36	5072.79	4987.35	4900.73	4800.07	4681.27
225.0	5128.97	5141.85	5104.98	5040.60	4977.98	4876.74	4756.77	4629.19	4465.33
270.0	5137.75	5130.14	5125.46	5092.10	5024.80	4963.94	4874.98	4757.35	4615.14
315.0	5120.19	5117.85	5050.55	4987.35	4912.44	4808.85	4666.06	4536.72	4375.79
360.0	5131.31	5105.56	5049.97	4984.42	4889.61	4780.76	4665.47	4544.92	4394.51
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4200.22	4039.87	3867.81	3646.60	3462.25	3284.93	3059.61	2879.95	2666.93
45.0	4400.95	4253.47	4055.67	3890.05	3713.31	3537.74	3311.26	3136.28	2911.55
90.0	4283.32	4077.91	3899.41	3721.50	3538.91	3314.77	3136.28	2952.52	2766.42
135.0	4520.92	4374.62	4216.60	4000.66	3825.09	3646.60	3460.49	3218.80	3032.69
180.0	4503.36	4353.55	4196.71	4026.99	3804.61	3630.21	3447.03	3259.76	3027.43
225.0	4320.77	4124.72	3958.52	3783.54	3606.21	3392.61	3205.92	3025.67	2788.66
270.0	4474.69	4277.47	4107.17	3896.49	3720.33	3541.25	3362.76	3142.13	2958.96
315.0	4212.51	4009.43	3842.06	3610.31	3431.82	3249.81	3022.16	2847.76	2674.54
360.0	4200.22	4039.87	3867.81	3646.60	3462.25	3284.93	3059.61	2879.95	2666.93
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2487.85	2318.13	2153.10	1947.69	1796.11	1649.22	1509.35	1157.34	1157.34
45.0	2733.06	2558.08	2340.37	2166.56	1999.19	1840.59	1653.32	1504.09	1371.24
90.0	2532.33	2356.17	2133.79	1962.90	1801.97	1605.92	1459.61	1163.84	1163.84
135.0	2850.69	2612.50	2430.50	2248.49	2033.13	1861.66	1705.40	1514.04	1371.83
180.0	2835.47	2600.80	2417.62	2232.69	2006.21	1828.30	1675.56	1519.30	1351.93
225.0	2598.46	2364.37	2183.53	2009.14	1838.25	1641.61	1496.48	1165.77	1165.77
270.0	2772.85	2590.26	2368.46	2187.63	2009.72	1837.67	1643.96	1504.67	1365.39
315.0	2450.40	2276.58	2112.14	1948.86	1758.66	1616.45	1480.68	1164.48	1164.48
360.0	2487.85	2318.13	2153.10	1947.69	1796.11	1649.22	1509.35	1157.34	1157.34
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1094.43	946.19	830.49	721.47	594.94	505.05	424.87	336.86	275.82
45.0	1234.88	1074.53	954.56	838.69	707.01	607.52	517.40	420.25	352.36
90.0	1041.12	921.79	813.46	710.29	589.56	502.01	426.69	358.98	284.36
135.0	1235.47	1110.82	962.75	856.83	752.66	656.10	545.49	464.73	393.33
180.0	1222.59	1095.60	980.90	841.03	736.86	638.54	529.10	451.27	381.63
225.0	1076.87	958.66	848.52	744.76	623.79	535.42	438.28	370.33	310.52
270.0	1206.79	1086.82	938.76	821.13	712.28	612.20	503.35	426.10	358.80
315.0	1075.23	953.51	810.54	701.68	577.91	489.25	412.12	344.40	271.95
360.0	1094.43	946.19	830.49	721.47	594.94	505.05	424.87	336.86	275.82
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	223.97	180.83	138.29	112.54	93.52	79.65	67.42	60.34	55.07
45.0	306.72	306.72	180.25	145.78	118.16	93.23	79.59	68.88	61.04
90.0	234.15	181.54	147.13	119.50	94.81	80.41	69.58	59.93	54.31
135.0	315.49	300.28	300.28	160.35	130.33	102.36	86.44	74.27	65.02
180.0	306.13	306.13	241.29	156.02	126.17	103.35	86.55	71.46	62.68
225.0	244.04	198.74	161.23	123.60	101.13	84.33	72.04	61.21	55.01
270.0	300.86	300.86	189.91	154.73	120.03	99.02	83.86	72.57	62.33
315.0	223.03	181.60	148.59	116.64	97.56	83.10	72.63	62.79	56.94
360.0	223.97	180.83	138.29	112.54	93.52	79.65	67.42	60.34	55.07

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	49.74	46.35	42.60	40.20	37.98	35.52	33.83	32.30	30.96
45.0	53.67	49.16	45.30	41.26	38.51	35.99	33.24	31.31	29.14
90.0	49.69	45.94	42.72	39.39	37.04	34.88	33.18	31.13	29.67
135.0	56.88	51.79	47.64	44.18	40.38	37.75	35.41	33.47	31.37
180.0	56.42	51.44	46.64	43.37	40.56	37.63	35.46	33.59	31.43
225.0	50.27	46.53	42.55	39.91	37.51	35.11	33.30	31.37	30.08
270.0	56.36	50.80	47.17	44.01	40.56	38.16	36.11	34.24	32.07
315.0	51.32	47.70	44.42	41.02	38.57	36.46	34.59	32.48	31.02
360.0	49.74	46.35	42.60	40.20	37.98	35.52	33.83	32.30	30.96
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	29.61	28.15	27.21	26.16	25.05	24.29	23.47	22.59	21.95
45.0	27.62	26.22	24.93	23.64	22.71	21.89	21.24	20.42	19.90
90.0	28.03	26.86	25.63	24.40	23.64	22.71	21.89	21.07	20.37
135.0	29.85	28.15	26.92	25.87	24.58	23.82	23.00	22.24	21.42
180.0	29.90	28.27	27.10	26.04	25.05	23.99	23.17	22.47	21.77
225.0	28.85	27.74	26.57	25.63	24.87	24.11	23.29	22.59	21.95
270.0	30.61	29.26	28.03	26.69	25.75	24.81	23.99	22.88	22.06
315.0	29.61	28.38	27.10	26.10	25.22	24.23	23.47	22.71	21.83
360.0	29.61	28.15	27.21	26.16	25.05	24.29	23.47	22.59	21.95
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	21.36	20.60	20.01	19.49	18.79	18.20	17.62	17.03	16.44
45.0	19.37	18.84	18.43	18.02	17.56	17.15	16.80	16.33	15.92
90.0	19.72	19.08	18.49	17.97	17.44	16.97	16.44	15.98	15.51
135.0	20.89	20.31	19.84	19.20	18.79	18.32	17.73	17.21	16.62
180.0	21.01	20.42	19.96	19.25	18.79	18.38	17.79	17.32	16.91
225.0	21.30	20.54	19.96	19.20	18.55	17.91	17.44	16.74	16.15
270.0	21.36	20.60	20.01	19.37	18.73	18.26	17.67	17.03	16.50
315.0	21.19	20.48	19.84	19.31	18.73	18.02	17.38	16.74	16.15
360.0	21.36	20.60	20.01	19.49	18.79	18.20	17.62	17.03	16.44
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	15.98	15.51	15.16	14.69	14.34	14.05	13.58	13.28	12.93
45.0	15.57	15.16	14.75	14.40	14.05	13.64	13.28	12.99	12.70
90.0	15.16	14.69	14.34	13.99	13.58	13.23	12.87	12.64	12.23
135.0	16.09	15.57	15.16	14.63	14.22	13.93	13.52	13.11	12.82
180.0	16.33	15.86	15.45	15.04	14.63	14.28	13.99	13.64	13.23
225.0	15.51	14.86	14.46	14.16	13.75	13.34	12.99	12.70	12.29
270.0	15.92	15.45	14.86	14.46	14.05	13.69	13.34	12.93	12.64
315.0	15.39	14.92	14.51	14.10	13.69	13.34	12.93	12.64	12.29
360.0	15.98	15.51	15.16	14.69	14.34	14.05	13.58	13.28	12.93
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	12.52	12.23	11.94	11.59	11.41	11.18	10.94	10.65	10.36
45.0	12.35	12.00	11.65	11.35	11.12	10.89	10.65	10.42	10.18
90.0	11.94	11.59	11.35	11.06	10.89	10.65	10.42	10.18	10.07
135.0	12.52	12.06	11.82	11.47	11.18	10.94	10.71	10.48	10.24
180.0	12.87	12.52	12.23	11.88	11.59	11.29	11.12	10.77	10.59
225.0	12.00	11.70	11.41	11.12	10.89	10.71	10.42	10.24	10.07
270.0	12.23	11.88	11.59	11.35	11.06	10.83	10.53	10.30	10.12
315.0	11.94	11.70	11.41	11.06	10.83	10.59	10.36	10.18	10.01
360.0	12.52	12.23	11.94	11.59	11.41	11.18	10.94	10.65	10.36

Intensity data(cd)

C/γ(°)	90.0
0.0	10.12
45.0	10.07
90.0	10.01
135.0	10.07
180.0	10.07
225.0	10.01
270.0	10.01
315.0	10.01
360.0	10.12