



NATA LIGHTING CO.,LTD.
www.nata.cn
Email:info@nata.com
Tel:+86-750-3770000 Fax:+86-750-3771111
Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

NT

Client:

LumCAT: 2-2688-L

Luminaire: 92.70.411.00

Report No: 2024402-B024

Ballast type: AC

Test No: 2024402-C024

Voltage(V): 35.180

LampCAT: LUMILEDS LUXEON 1205

Current(A): 0.485

Lamp flux(lm): 2202.0

Power (W): 17.062

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1823.54, Efficiency(%): 82.81% , Luminous Efficacy(lm/W): 106.88

Central intensity(cd): 4533.943, Maximum intensity(cd): 4533.943

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=34.6

[C90/270]Total=34.6

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

[C90/270]Total=60.6

Maximum s/h(1/2): C0_180=0.57 C90_270=0.57

Maximum s/h(1/4): C0_180=0.56 C90_270=0.56

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 82.81%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.709%

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	4533.943	0.000	0	0.00%	0.00%
1.0	4529.846	4.337	4.337	0.20%	0.24%
2.0	4513.679	12.980	17.317	0.59%	0.95%
3.0	4485.589	21.523	38.84	0.98%	2.13%
4.0	4449.524	29.909	68.749	1.36%	3.77%
5.0	4399.707	38.069	106.818	1.73%	5.86%
6.0	4323.555	45.843	152.661	2.08%	8.37%
7.0	4222.896	53.048	205.709	2.41%	11.28%
8.0	4102.339	59.582	265.291	2.71%	14.55%
9.0	3971.395	65.433	330.724	2.97%	18.14%
10.0	3800.802	70.336	401.059	3.19%	21.99%
11.0	3613.603	74.085	475.145	3.36%	26.06%
12.0	3424.283	76.934	552.079	3.49%	30.28%
13.0	3223.185	78.889	630.968	3.58%	34.60%
14.0	2989.607	79.523	710.491	3.61%	38.96%
15.0	2779.219	79.197	789.688	3.60%	43.31%
16.0	2553.834	78.144	867.832	3.55%	47.59%
17.0	2340.227	76.214	944.046	3.46%	51.77%
18.0	2129.253	73.692	1017.738	3.35%	55.81%
19.0	1925.741	70.549	1088.286	3.20%	59.68%
20.0	1736.567	67.030	1155.317	3.04%	63.36%
21.0	1515.074	62.438	1217.755	2.84%	66.78%
22.0	1328.358	57.140	1274.895	2.59%	69.91%
23.0	1207.027	53.199	1328.094	2.42%	72.83%
24.0	1106.975	50.592	1378.686	2.30%	75.60%
25.0	1002.498	47.965	1426.651	2.18%	78.24%
26.0	900.200	44.913	1471.565	2.04%	80.70%
27.0	786.330	41.261	1512.826	1.87%	82.96%
28.0	679.300	37.107	1549.933	1.69%	85.00%
29.0	573.740	32.783	1582.716	1.49%	86.79%
30.0	479.014	28.424	1611.14	1.29%	88.35%
31.0	382.708	23.980	1635.12	1.09%	89.67%
32.0	304.507	19.688	1654.808	0.89%	90.75%
33.0	253.995	16.454	1671.262	0.75%	91.65%
34.0	187.367	13.357	1684.619	0.61%	92.38%
35.0	122.356	9.619	1694.238	0.44%	92.91%
36.0	102.407	7.156	1701.394	0.32%	93.30%
37.0	90.776	6.301	1707.695	0.29%	93.65%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	81.924	5.764	1713.459	0.26%	93.96%
39.0	74.046	5.324	1718.783	0.24%	94.26%
40.0	67.440	4.935	1723.717	0.22%	94.53%
41.0	61.683	4.598	1728.315	0.21%	94.78%
42.0	56.708	4.301	1732.617	0.20%	95.01%
43.0	52.048	4.029	1736.645	0.18%	95.23%
44.0	48.003	3.776	1740.422	0.17%	95.44%
45.0	44.521	3.556	1743.977	0.16%	95.64%
46.0	41.492	3.364	1747.341	0.15%	95.82%
47.0	38.837	3.195	1750.536	0.15%	96.00%
48.0	36.335	3.039	1753.575	0.14%	96.16%
49.0	34.250	2.899	1756.474	0.13%	96.32%
50.0	32.231	2.772	1759.245	0.13%	96.47%
51.0	30.541	2.656	1761.901	0.12%	96.62%
52.0	28.917	2.551	1764.453	0.12%	96.76%
53.0	27.454	2.452	1766.905	0.11%	96.89%
54.0	26.094	2.360	1769.265	0.11%	97.02%
55.0	24.931	2.278	1771.543	0.10%	97.15%
56.0	23.775	2.201	1773.743	0.10%	97.27%
57.0	22.575	2.119	1775.863	0.10%	97.39%
58.0	21.544	2.040	1777.903	0.09%	97.50%
59.0	20.578	1.969	1779.872	0.09%	97.61%
60.0	19.627	1.899	1781.772	0.09%	97.71%
61.0	18.691	1.829	1783.6	0.08%	97.81%
62.0	17.871	1.762	1785.362	0.08%	97.91%
63.0	17.220	1.707	1787.069	0.08%	98.00%
64.0	16.489	1.654	1788.723	0.08%	98.09%
65.0	15.940	1.605	1790.328	0.07%	98.18%
66.0	15.560	1.572	1791.899	0.07%	98.26%
67.0	15.333	1.553	1793.453	0.07%	98.35%
68.0	15.223	1.548	1795	0.07%	98.43%
69.0	15.230	1.554	1796.554	0.07%	98.52%
70.0	15.457	1.576	1798.13	0.07%	98.61%
71.0	15.611	1.606	1799.736	0.07%	98.69%
72.0	15.757	1.631	1801.367	0.07%	98.78%
73.0	15.757	1.648	1803.015	0.07%	98.87%
74.0	15.530	1.645	1804.66	0.07%	98.96%
75.0	15.735	1.652	1806.312	0.08%	99.05%

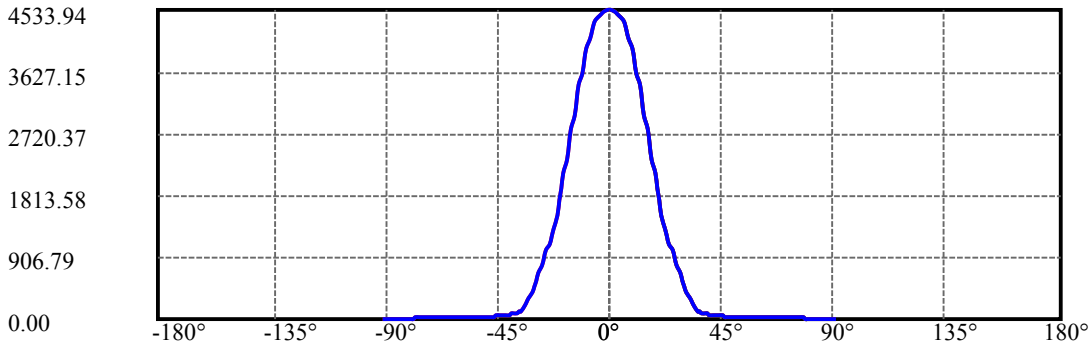
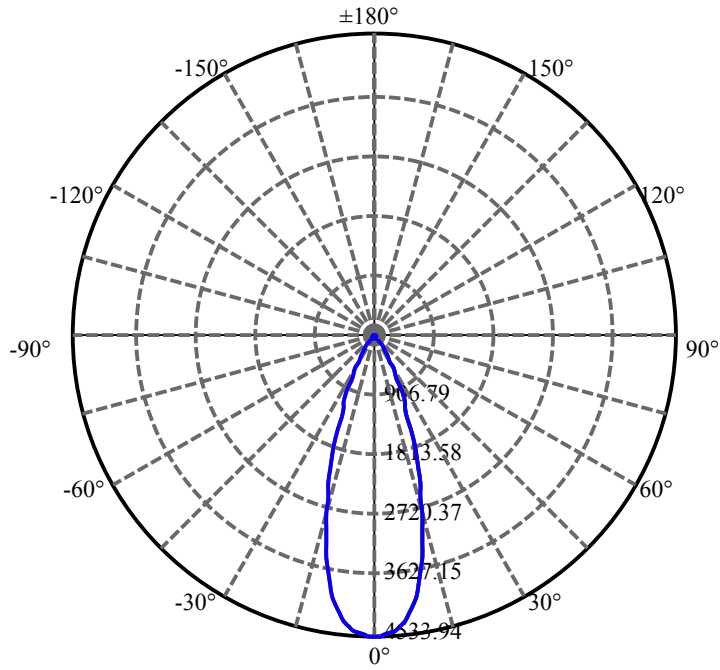
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	15.004	1.632	1807.943	0.07%	99.14%
77.0	14.594	1.578	1809.521	0.07%	99.23%
78.0	13.789	1.519	1811.041	0.07%	99.31%
79.0	12.751	1.426	1812.467	0.06%	99.39%
80.0	11.434	1.304	1813.771	0.06%	99.46%
81.0	10.234	1.172	1814.942	0.05%	99.53%
82.0	9.642	1.078	1816.02	0.05%	99.59%
83.0	9.378	1.034	1817.054	0.05%	99.64%
84.0	9.173	1.011	1818.065	0.05%	99.70%
85.0	8.822	0.982	1819.047	0.04%	99.75%
86.0	8.508	0.947	1819.994	0.04%	99.81%
87.0	8.179	0.913	1820.908	0.04%	99.86%
88.0	8.047	0.889	1821.796	0.04%	99.90%
89.0	7.974	0.878	1822.674	0.04%	99.95%
90.0	7.893	0.870	1823.544	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1611.14	73.17%	88.35%
0-40	1723.72	78.28%	94.53%
0-60	1781.77	80.92%	97.71%
0-90	1822.67	82.77%	99.95%
0-120	1822.67	82.77%	99.95%
0-180	1823.54	82.81%	100.00%
60-90	40.90	1.86%	2.24%
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%
0-25.72	1458.84	66.25%	80.00%

ZONAL LUMEN SUMMARY

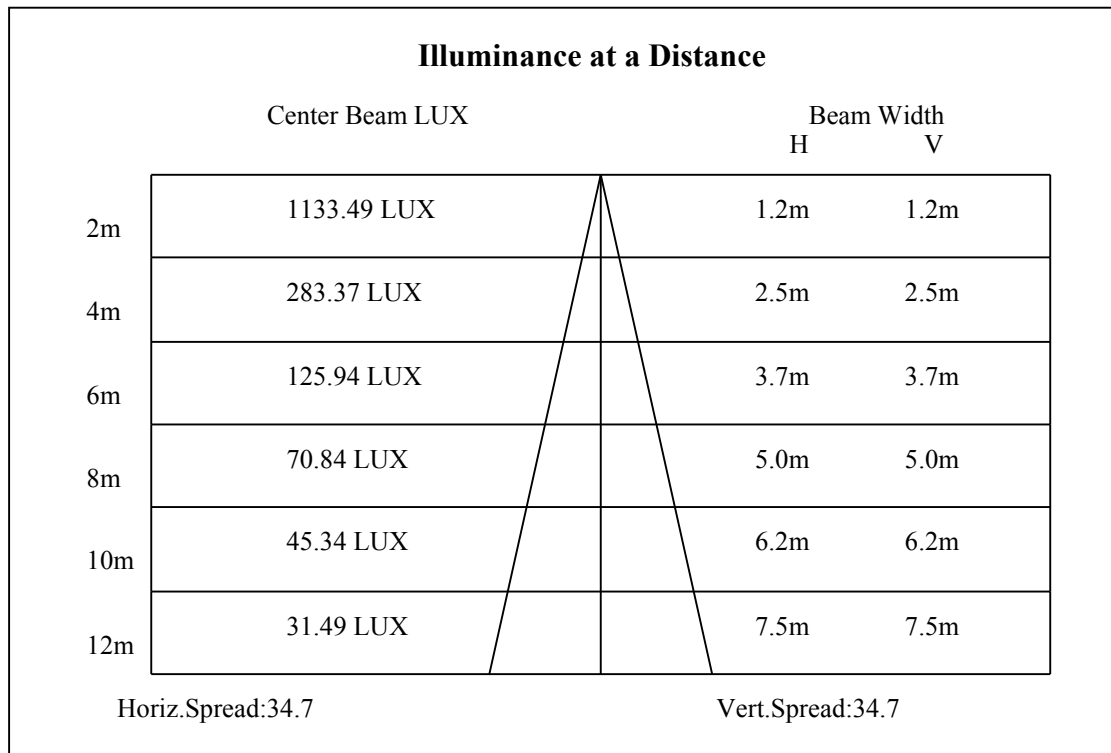
0-10	401.06
10-20	754.26
20-30	455.82
30-40	112.58
40-50	35.53
50-60	22.53
60-70	16.36
70-80	15.64
80-90	8.90
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

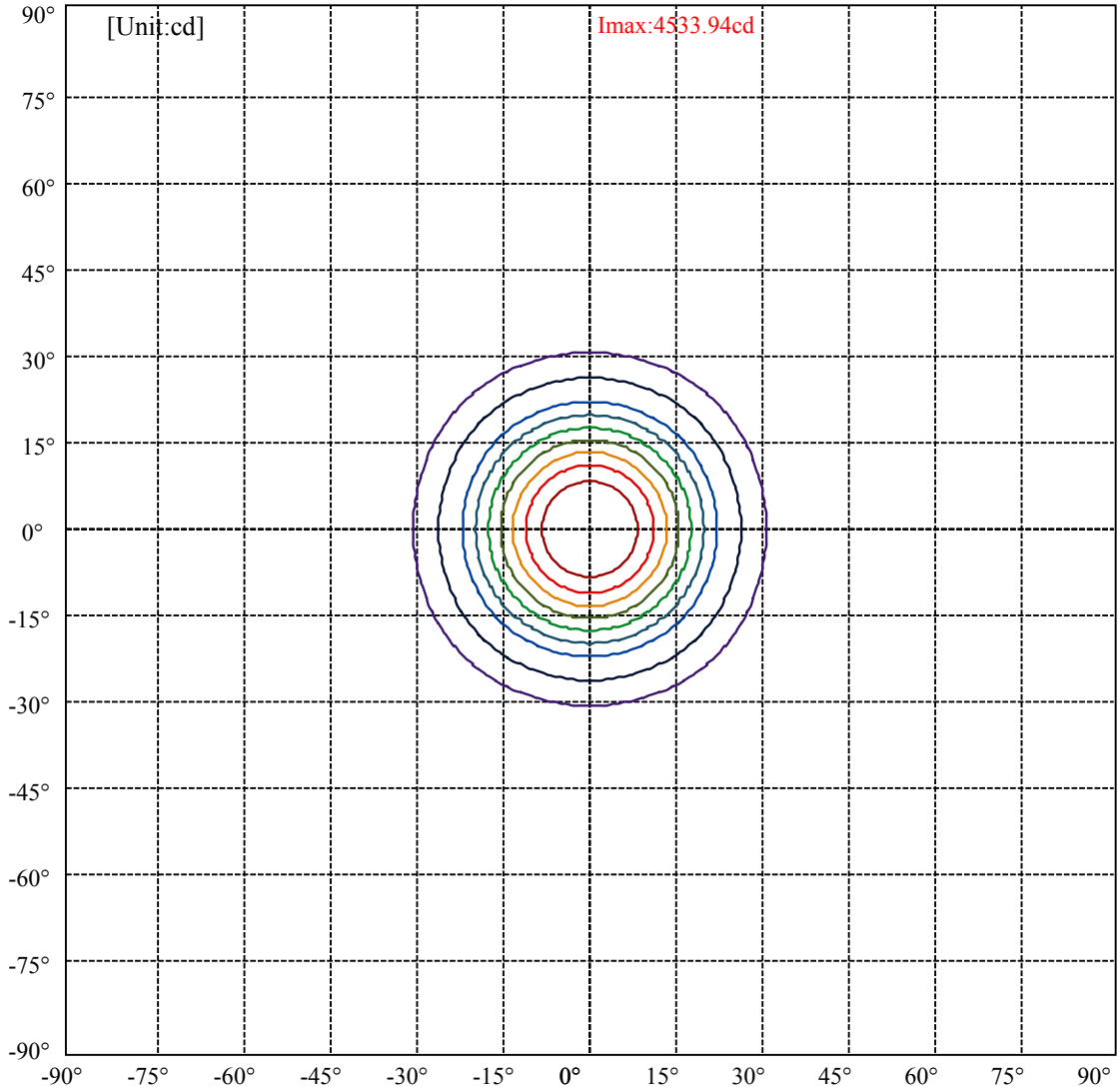


C0(Max): —————
C0/C180: —————
C90/C270: —————

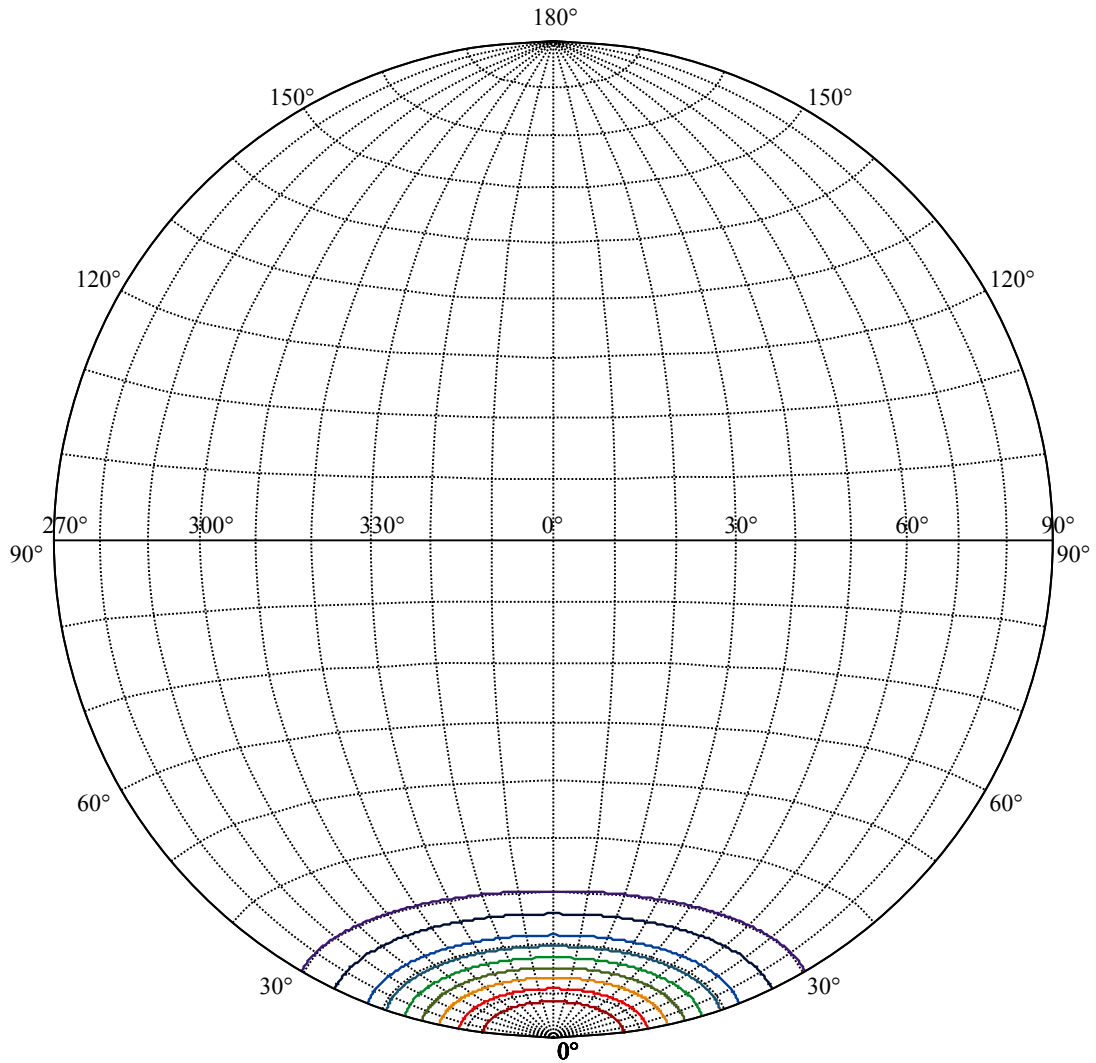
Field angle(10%Imax):C0/180Left:30.3 Right:30.3
:C90/270Left:30.3 Right:30.3

Beam Angle(50%Imax):C0/180Left:17.3 Right:17.3
:C90/270Left:17.3 Right:17.3





(10%Imax) 453.394	—
(20%Imax) 906.789	—
(30%Imax) 1360.18	—
(40%Imax) 1813.58	—
(50%Imax) 2266.97	—
(60%Imax) 2720.37	—
(70%Imax) 3173.76	—
(80%Imax) 3627.15	—
(90%Imax) 4080.55	—



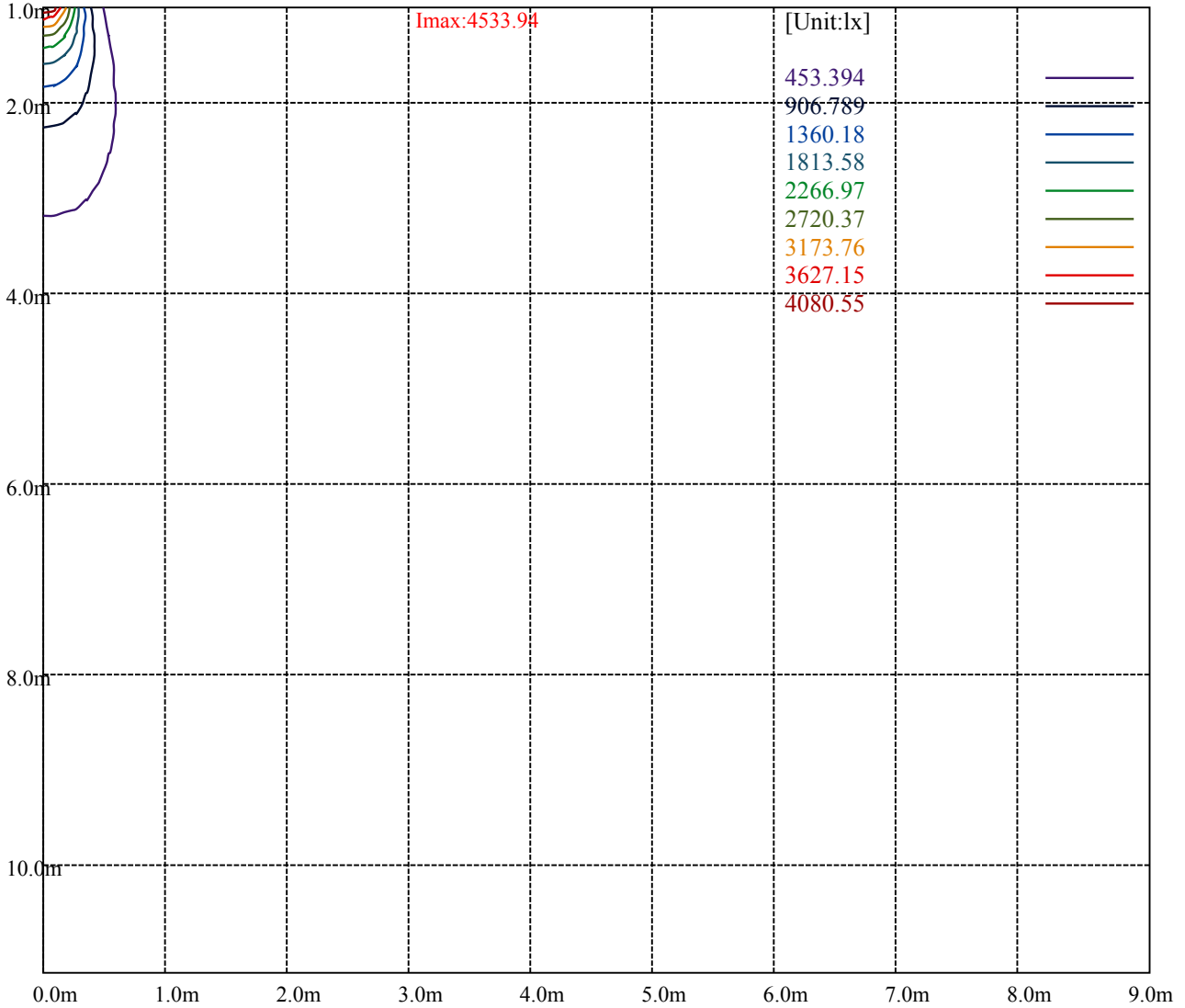
House

[Unit:cd]

Road

Imax:4533.94

(10%Imax) 453.394	—
(20%Imax) 906.789	—
(30%Imax) 1360.18	—
(40%Imax) 1813.58	—
(50%Imax) 2266.97	—
(60%Imax) 2720.37	—
(70%Imax) 3173.76	—
(80%Imax) 3627.15	—
(90%Imax) 4080.55	—



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

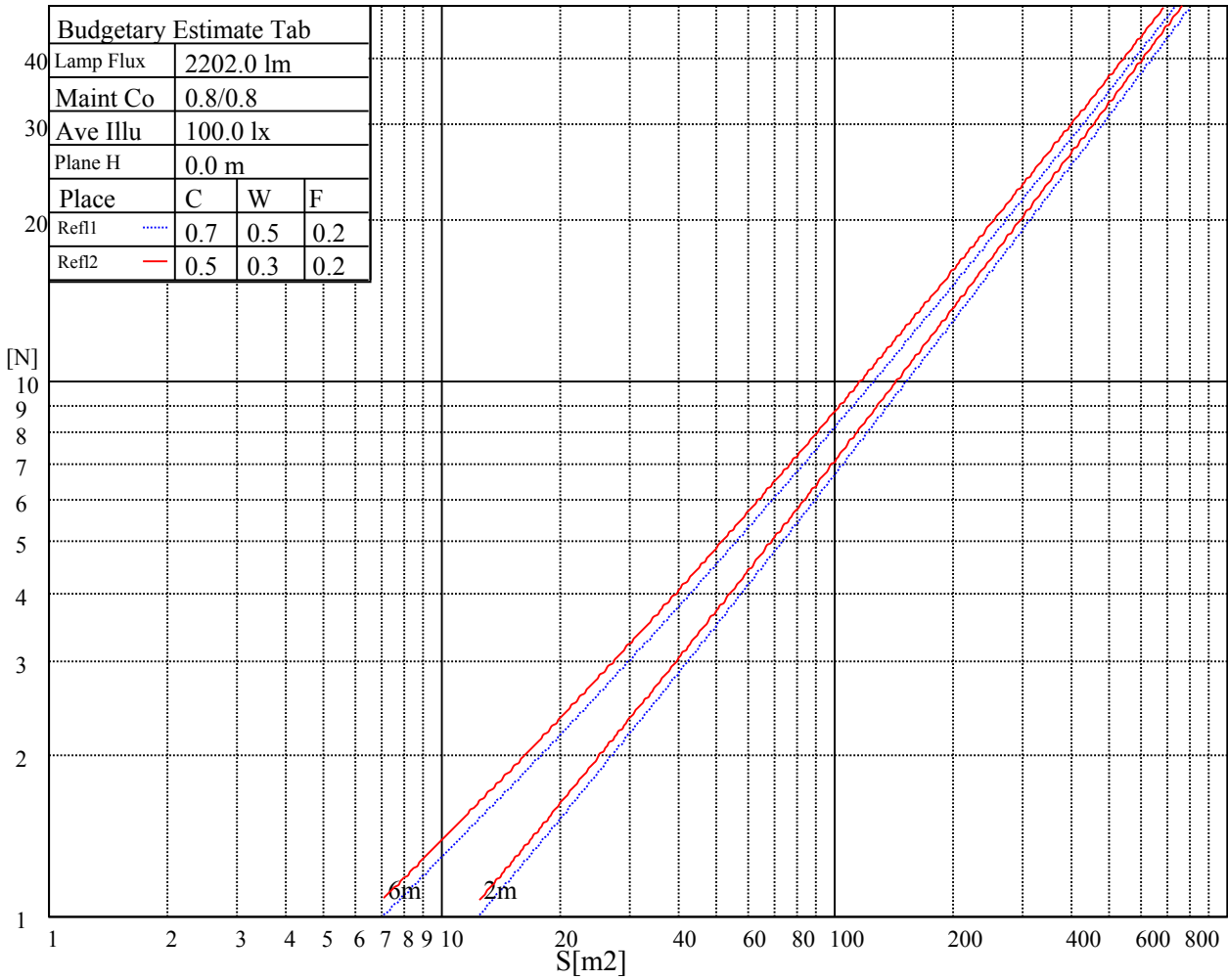
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

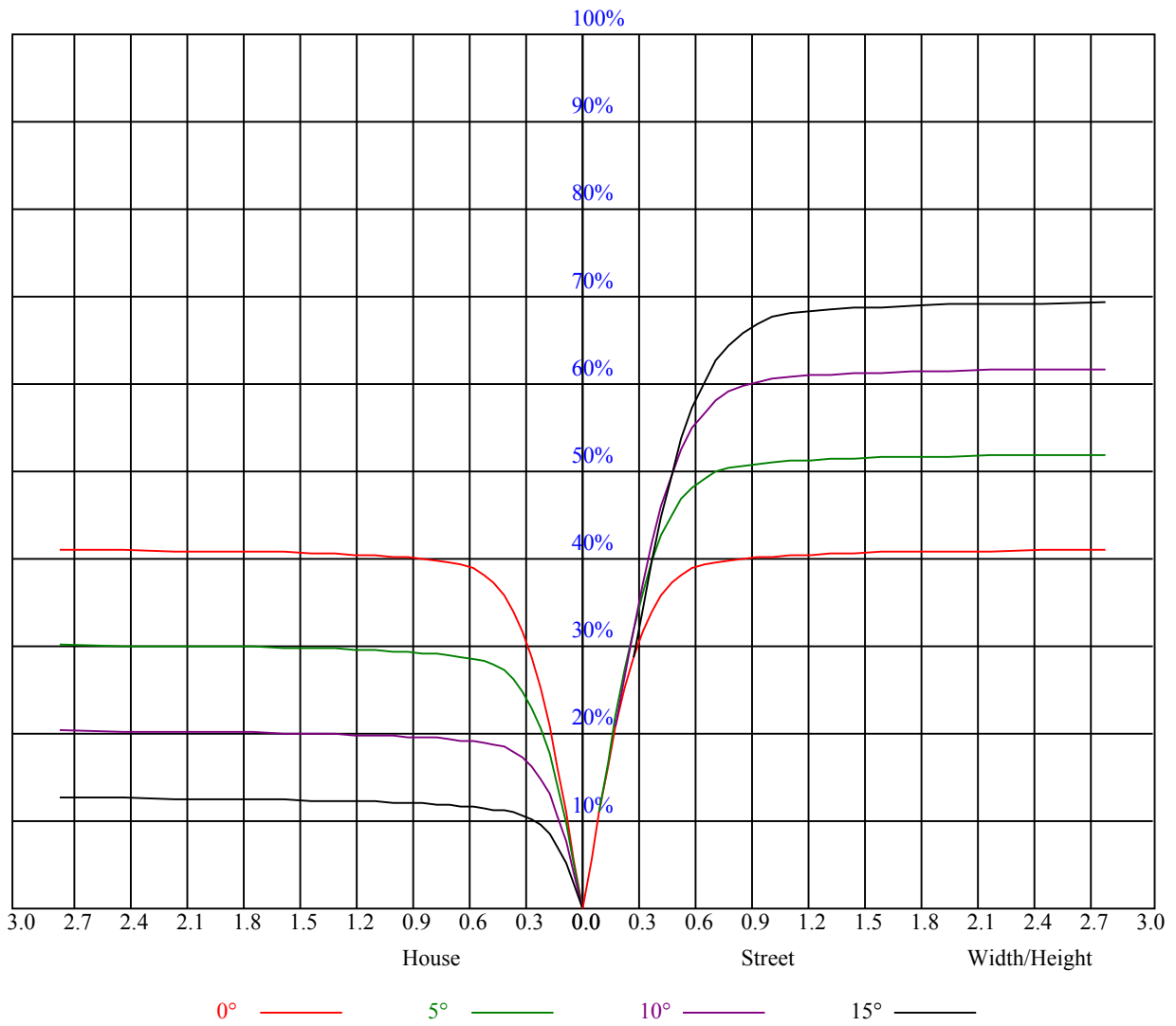


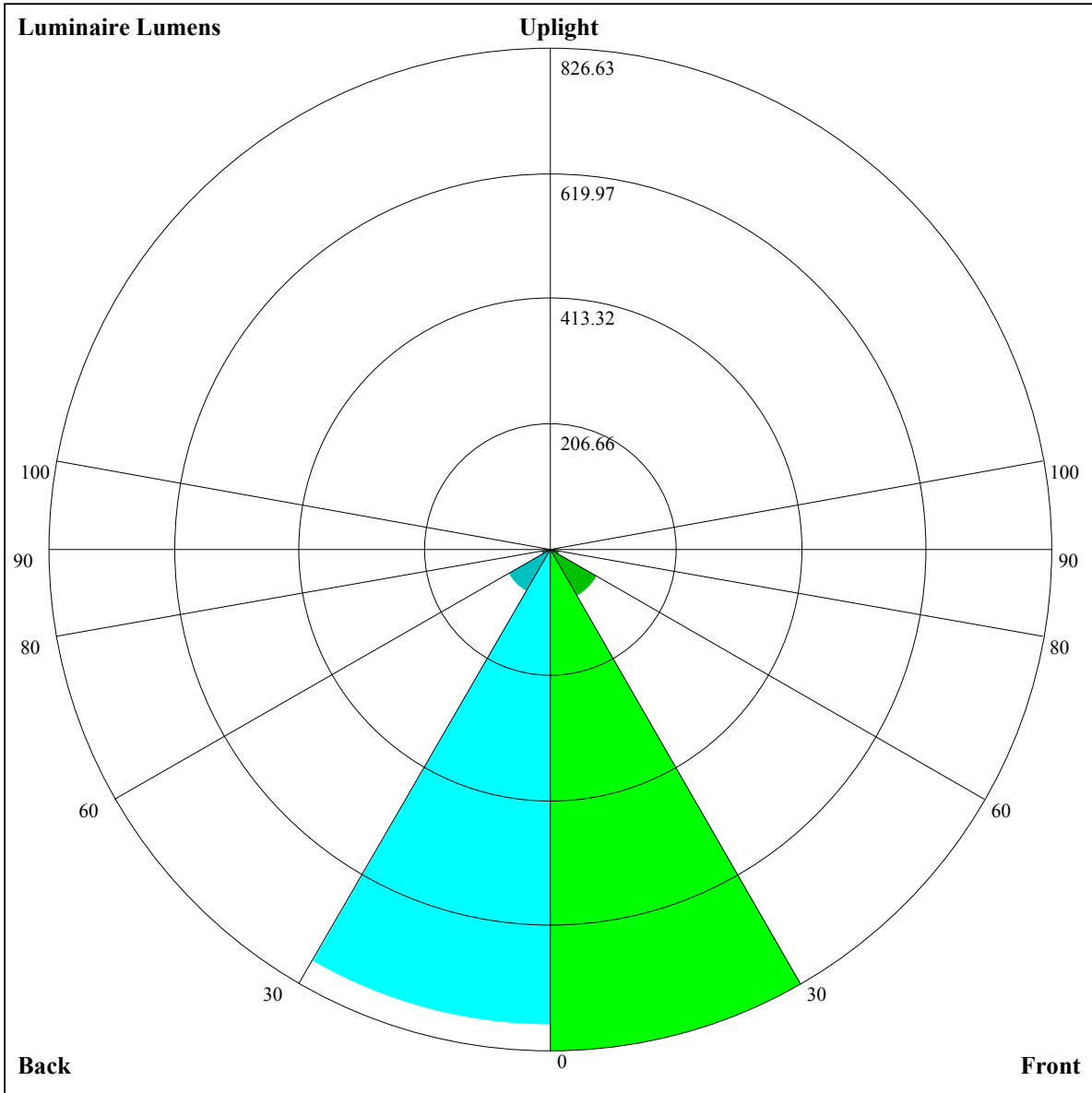
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	3H	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 RHOFC=20 CU															
0	0.99	0.99	0.99	0.96	0.96	0.96	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	0.90	0.89	0.87	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.80	0.78
2	0.87	0.84	0.81	0.85	0.83	0.80	0.83	0.81	0.79	0.80	0.79	0.77	0.78	0.77	0.75	0.74
3	0.82	0.79	0.76	0.81	0.78	0.75	0.79	0.76	0.74	0.77	0.75	0.73	0.75	0.73	0.72	0.71
4	0.78	0.74	0.71	0.77	0.74	0.71	0.75	0.72	0.70	0.74	0.71	0.69	0.72	0.70	0.68	0.67
5	0.74	0.70	0.67	0.74	0.70	0.67	0.72	0.69	0.66	0.71	0.68	0.66	0.70	0.67	0.65	0.64
6	0.71	0.67	0.64	0.70	0.67	0.64	0.69	0.66	0.63	0.68	0.65	0.63	0.67	0.65	0.63	0.61
7	0.68	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.60	0.65	0.62	0.60	0.59
8	0.65	0.61	0.58	0.65	0.61	0.58	0.64	0.61	0.58	0.63	0.60	0.58	0.63	0.60	0.58	0.57
9	0.63	0.59	0.56	0.62	0.59	0.56	0.62	0.58	0.56	0.61	0.58	0.56	0.60	0.57	0.55	0.54
10	0.60	0.56	0.54	0.60	0.56	0.54	0.59	0.56	0.54	0.59	0.56	0.53	0.58	0.55	0.53	0.52





Luminaire Lumens:

FL=826.63,FM=90.16,FH=15.53,FVH=4.92

BL=783.61,BM=81.73,BH=16.14,BVH=4.89

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	4546.09	4556.04	4551.35	4536.14	4508.05	4470.01	4409.73	4338.92	4207.24
45.0	4516.24	4537.89	4543.16	4540.23	4513.90	4488.73	4448.35	4367.01	4274.54
90.0	4528.53	4527.94	4506.88	4475.27	4436.65	4367.59	4281.56	4148.72	4021.14
135.0	4544.92	4533.21	4512.73	4480.54	4445.43	4389.25	4302.05	4203.14	4054.50
180.0	4546.09	4522.68	4497.51	4450.69	4400.37	4338.92	4238.84	4136.43	4012.95
225.0	4516.24	4492.25	4452.45	4402.71	4352.38	4282.15	4190.27	4056.84	3926.33
270.0	4528.53	4527.94	4515.07	4486.98	4460.64	4423.77	4367.59	4274.54	4177.39
315.0	4544.92	4540.82	4530.29	4512.14	4478.79	4437.23	4350.04	4257.57	4144.62
360.0	4546.09	4556.04	4551.35	4536.14	4508.05	4470.01	4409.73	4338.92	4207.24
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4079.66	3930.43	3721.50	3546.52	3351.64	3094.73	2883.46	2673.95	2411.77
45.0	4168.62	4041.62	3843.82	3674.69	3490.93	3294.29	3030.94	2818.50	2609.58
90.0	3870.15	3654.79	3476.88	3286.10	3078.34	2822.60	2611.33	2405.92	2208.70
135.0	3915.80	3770.08	3595.68	3372.12	3179.59	2978.85	2767.00	2510.67	2306.43
180.0	3880.69	3686.98	3507.31	3330.57	3127.50	2872.93	2675.71	2462.69	2225.67
225.0	3782.95	3616.75	3398.46	3210.02	3015.14	2761.74	2562.76	2316.38	2122.67
270.0	4065.62	3892.39	3725.02	3554.13	3315.94	3116.38	2929.11	2670.44	2470.88
315.0	4007.68	3813.38	3640.16	3420.11	3226.40	2975.34	2773.44	2572.12	2366.12
360.0	4079.66	3930.43	3721.50	3546.52	3351.64	3094.73	2883.46	2673.95	2411.77
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2219.82	2029.62	1848.20	1634.59	1466.05	1157.22	1157.22	1054.69	959.83
45.0	2357.34	2162.46	1931.89	1755.73	1581.92	1420.40	1246.00	1130.13	1027.71
90.0	1977.53	1801.38	1629.91	1307.45	1150.84	1150.84	1024.73	925.65	821.42
135.0	2113.89	1891.51	1721.21	1557.34	1355.44	1216.74	1104.96	984.41	886.09
180.0	2034.30	1794.94	1625.23	1453.76	1261.80	1140.66	1038.83	946.95	824.64
225.0	1930.72	1707.75	1535.69	1161.85	1161.85	1083.49	989.26	892.99	788.06
270.0	2281.27	2084.63	1845.27	1668.53	1498.23	1336.13	1172.85	1065.17	969.19
315.0	2119.16	1933.64	1755.15	1581.34	1150.73	1150.73	1121.93	1019.99	924.66
360.0	2219.82	2029.62	1848.20	1634.59	1466.05	1157.22	1157.22	1054.69	959.83
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	857.47	754.59	630.76	535.95	424.35	338.73	260.19	180.02	134.95
45.0	926.47	793.62	689.45	591.72	481.11	393.33	311.40	311.40	159.65
90.0	694.72	596.93	507.10	422.36	319.01	244.57	179.72	130.97	103.18
135.0	777.24	651.41	557.19	467.65	382.80	300.86	300.86	152.33	116.40
180.0	727.49	629.76	537.88	423.76	337.15	296.18	296.18	129.22	106.10
225.0	664.11	570.13	477.72	388.65	287.99	217.00	147.54	116.34	101.48
270.0	844.54	742.71	618.64	523.25	436.05	353.53	313.74	313.74	138.82
315.0	798.60	695.25	571.18	478.77	393.21	291.85	222.33	164.92	118.27
360.0	857.47	754.59	630.76	535.95	424.35	338.73	260.19	180.02	134.95
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	111.08	97.44	87.96	79.71	72.86	66.89	60.28	55.65	51.44
45.0	123.19	103.70	93.81	85.03	75.90	69.82	64.32	59.34	54.02
90.0	93.75	85.33	76.14	69.88	63.26	58.64	54.48	50.62	46.47
135.0	96.91	87.96	78.24	71.69	66.01	59.87	55.54	51.68	48.11
180.0	92.52	83.92	76.49	68.47	62.85	57.82	53.26	48.28	44.83
225.0	89.13	80.35	72.92	64.90	59.28	54.48	50.15	46.35	42.37
270.0	110.72	94.98	85.68	77.60	70.64	62.85	57.53	51.85	48.05
315.0	101.95	92.52	84.16	75.08	68.71	63.09	58.11	52.61	48.75
360.0	111.08	97.44	87.96	79.71	72.86	66.89	60.28	55.65	51.44

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	46.88	43.66	40.85	37.81	35.58	33.12	31.43	29.90	28.50
45.0	50.21	46.88	43.89	40.56	38.04	35.82	33.36	31.60	29.96
90.0	43.48	40.91	38.45	35.87	34.00	32.19	30.61	28.79	27.39
135.0	45.00	41.55	39.15	36.93	34.88	32.60	30.90	29.50	27.74
180.0	41.84	39.15	36.23	34.24	32.48	30.43	28.91	27.33	26.04
225.0	39.50	37.04	34.35	32.48	30.78	28.85	27.51	25.93	24.76
270.0	44.59	40.97	38.51	36.34	33.83	32.13	30.55	29.09	27.39
315.0	44.65	41.79	39.27	36.46	34.41	32.71	31.08	29.20	27.86
360.0	46.88	43.66	40.85	37.81	35.58	33.12	31.43	29.90	28.50
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	26.86	25.69	24.64	23.53	22.18	21.24	20.31	19.14	18.32
45.0	28.15	26.86	25.69	24.29	23.12	22.06	21.19	19.90	19.02
90.0	25.81	24.70	23.58	22.24	21.36	20.42	19.31	18.55	17.85
135.0	26.63	25.28	24.17	23.12	22.00	21.07	20.19	19.31	18.38
180.0	24.93	23.88	22.59	21.54	20.66	19.78	18.73	17.97	17.32
225.0	23.64	22.65	21.59	20.42	19.66	18.79	17.97	17.09	16.50
270.0	26.16	24.99	23.88	22.59	21.54	20.60	19.55	18.67	17.67
315.0	26.57	25.40	24.05	22.88	21.83	20.66	19.78	18.90	17.91
360.0	26.86	25.69	24.64	23.53	22.18	21.24	20.31	19.14	18.32
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	17.67	16.85	16.15	15.63	15.04	15.04	15.74	17.38	16.80
45.0	18.26	17.56	16.62	16.04	15.39	14.86	14.34	13.81	13.46
90.0	17.26	16.50	16.04	15.68	15.33	14.92	14.69	14.69	14.92
135.0	17.73	17.09	16.62	15.98	15.57	15.16	15.51	16.50	18.02
180.0	16.74	16.04	15.92	16.68	18.32	20.01	20.72	20.72	21.54
225.0	15.86	15.10	14.63	14.10	13.64	13.28	12.82	12.47	12.11
270.0	16.97	16.39	15.68	15.04	14.57	14.10	13.64	13.23	12.93
315.0	17.26	16.39	15.86	15.33	14.81	14.40	14.40	14.86	15.10
360.0	17.67	16.85	16.15	15.63	15.04	15.04	15.74	17.38	16.80
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	16.50	18.20	15.80	17.67	15.45	16.04	14.63	14.51	13.64
45.0	12.99	12.52	12.23	11.94	11.65	11.41	11.06	10.77	10.53
90.0	15.10	14.86	15.16	15.39	15.33	14.63	13.99	12.29	10.65
135.0	19.43	20.01	21.36	21.89	20.83	20.25	18.02	15.39	13.17
180.0	22.18	20.25	20.66	19.72	18.90	17.97	17.73	16.15	12.82
225.0	11.88	11.53	11.29	11.00	10.77	10.42	10.24	9.95	9.66
270.0	12.76	12.64	12.35	12.70	12.47	12.29	11.94	11.29	10.65
315.0	15.22	16.04	15.39	15.57	14.63	13.75	12.70	11.65	10.36
360.0	16.50	18.20	15.80	17.67	15.45	16.04	14.63	14.51	13.64
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	10.48	9.54	9.25	9.01	8.84	8.60	8.25	8.08	8.08
45.0	10.24	10.07	9.83	9.66	9.42	9.31	8.37	8.13	8.02
90.0	10.01	9.89	9.71	9.66	8.66	8.31	8.08	8.02	7.90
135.0	11.65	10.07	9.71	9.60	9.07	8.49	8.19	8.02	7.84
180.0	10.18	9.42	9.19	8.90	8.72	8.25	8.08	8.13	8.02
225.0	9.48	9.19	8.95	8.72	8.31	8.19	8.02	7.96	7.90
270.0	10.07	9.42	9.13	8.90	8.78	8.49	8.25	8.08	8.02
315.0	9.77	9.54	9.25	8.95	8.78	8.43	8.19	7.96	8.02
360.0	10.48	9.54	9.25	9.01	8.84	8.60	8.25	8.08	8.08

Intensity data(cd)

C/γ(°)	90.0
0.0	7.90
45.0	7.84
90.0	7.96
135.0	7.90
180.0	7.96
225.0	7.90
270.0	7.84
315.0	7.84
360.0	7.90