



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: 1-1491-L

Luminaire: 92.70.427.00

Report No: 2024923-B019

Ballast type: AC

Test No: 2024923-C019

Voltage(V): 36.250

LampCAT: CITIZEN CLU028 LES9.8

Current(A): 0.360

Lamp flux(lm): 1715.0

Power (W): 13.050

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1363.65, Efficiency(%): 79.51% , Luminous Efficacy(lm/W): 104.49

Central intensity(cd): 2522.817, Maximum intensity(cd): 2522.817

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=43.8

[C90/270]Total=43.8

Field angle(10%Imax): [C0/180]Total=64.6

[C90/270]Total=64.6

Maximum s/h(1/2): C0_180=0.72 C90_270=0.72

Maximum s/h(1/4): C0_180=0.68 C90_270=0.68

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 79.51%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.702%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/9/23
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	2522.817	0.000	0	0.00%	0.00%
1.0	2519.598	2.413	2.413	0.14%	0.18%
2.0	2518.574	7.231	9.644	0.42%	0.71%
3.0	2516.307	12.042	21.686	0.70%	1.59%
4.0	2505.480	16.810	38.495	0.98%	2.82%
5.0	2489.020	21.486	59.981	1.25%	4.40%
6.0	2466.855	26.044	86.026	1.52%	6.31%
7.0	2437.740	30.443	116.469	1.78%	8.54%
8.0	2403.139	34.645	151.114	2.02%	11.08%
9.0	2360.198	38.604	189.718	2.25%	13.91%
10.0	2309.503	42.259	231.977	2.46%	17.01%
11.0	2257.125	45.630	277.607	2.66%	20.36%
12.0	2196.993	48.690	326.297	2.84%	23.93%
13.0	2125.523	51.297	377.594	2.99%	27.69%
14.0	2052.150	53.474	431.068	3.12%	31.61%
15.0	1974.681	55.282	486.35	3.22%	35.67%
16.0	1885.580	56.564	542.914	3.30%	39.81%
17.0	1786.970	57.191	600.105	3.33%	44.01%
18.0	1687.921	57.293	657.399	3.34%	48.21%
19.0	1589.383	57.018	714.417	3.32%	52.39%
20.0	1489.895	56.359	770.777	3.29%	56.52%
21.0	1328.388	54.117	824.893	3.16%	60.49%
22.0	1255.542	51.925	876.818	3.03%	64.30%
23.0	1180.457	51.114	927.932	2.98%	68.05%
24.0	1079.111	49.402	977.335	2.88%	71.67%
25.0	964.005	46.456	1023.791	2.71%	75.08%
26.0	846.235	42.731	1066.521	2.49%	78.21%
27.0	745.525	38.943	1105.464	2.27%	81.07%
28.0	634.347	34.935	1140.4	2.04%	83.63%
29.0	527.814	30.405	1170.805	1.77%	85.86%
30.0	427.763	25.800	1196.606	1.50%	87.75%
31.0	338.992	21.338	1217.943	1.24%	89.31%
32.0	263.593	17.263	1235.207	1.01%	90.58%
33.0	229.950	14.540	1249.746	0.85%	91.65%
34.0	153.139	11.593	1261.34	0.68%	92.50%
35.0	105.589	8.035	1269.375	0.47%	93.09%
36.0	84.199	6.043	1275.418	0.35%	93.53%
37.0	69.115	5.000	1280.418	0.29%	93.90%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	58.647	4.265	1284.683	0.25%	94.21%
39.0	51.536	3.761	1288.444	0.22%	94.48%
40.0	45.991	3.401	1291.845	0.20%	94.73%
41.0	41.712	3.123	1294.968	0.18%	94.96%
42.0	37.725	2.886	1297.854	0.17%	95.17%
43.0	34.697	2.683	1300.537	0.16%	95.37%
44.0	32.143	2.523	1303.06	0.15%	95.56%
45.0	30.037	2.390	1305.449	0.14%	95.73%
46.0	28.105	2.274	1307.723	0.13%	95.90%
47.0	26.423	2.169	1309.892	0.13%	96.06%
48.0	25.113	2.083	1311.975	0.12%	96.21%
49.0	23.855	2.011	1313.986	0.12%	96.36%
50.0	22.670	1.940	1315.926	0.11%	96.50%
51.0	21.566	1.872	1317.797	0.11%	96.64%
52.0	20.622	1.810	1319.608	0.11%	96.77%
53.0	19.715	1.755	1321.362	0.10%	96.90%
54.0	18.895	1.702	1323.064	0.10%	97.02%
55.0	18.105	1.652	1324.716	0.10%	97.14%
56.0	17.388	1.604	1326.32	0.09%	97.26%
57.0	16.745	1.561	1327.88	0.09%	97.38%
58.0	16.101	1.519	1329.399	0.09%	97.49%
59.0	15.487	1.477	1330.876	0.09%	97.60%
60.0	14.967	1.439	1332.315	0.08%	97.70%
61.0	14.433	1.403	1333.718	0.08%	97.80%
62.0	13.899	1.365	1335.083	0.08%	97.90%
63.0	13.350	1.325	1336.408	0.08%	98.00%
64.0	12.919	1.289	1337.697	0.08%	98.10%
65.0	12.495	1.258	1338.955	0.07%	98.19%
66.0	12.136	1.229	1340.184	0.07%	98.28%
67.0	11.807	1.204	1341.388	0.07%	98.37%
68.0	11.529	1.182	1342.57	0.07%	98.45%
69.0	11.236	1.161	1343.731	0.07%	98.54%
70.0	10.958	1.140	1344.871	0.07%	98.62%
71.0	10.732	1.121	1345.992	0.07%	98.70%
72.0	10.680	1.113	1347.106	0.06%	98.79%
73.0	10.629	1.114	1348.22	0.06%	98.87%
74.0	10.578	1.115	1349.335	0.07%	98.95%
75.0	10.461	1.112	1350.446	0.06%	99.03%

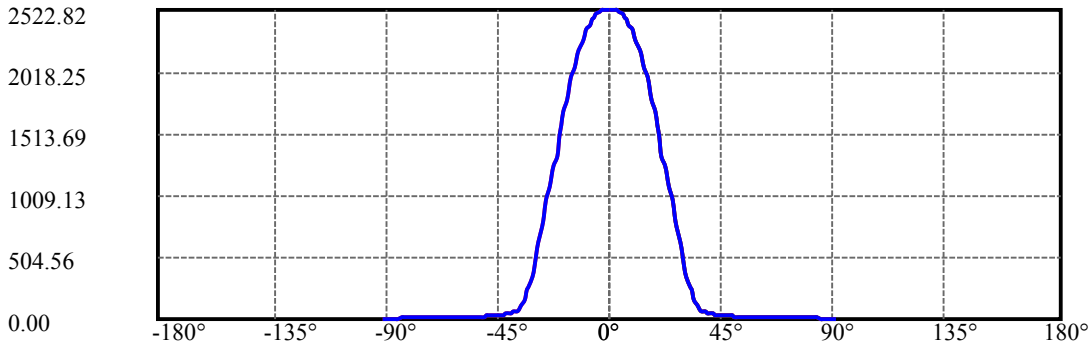
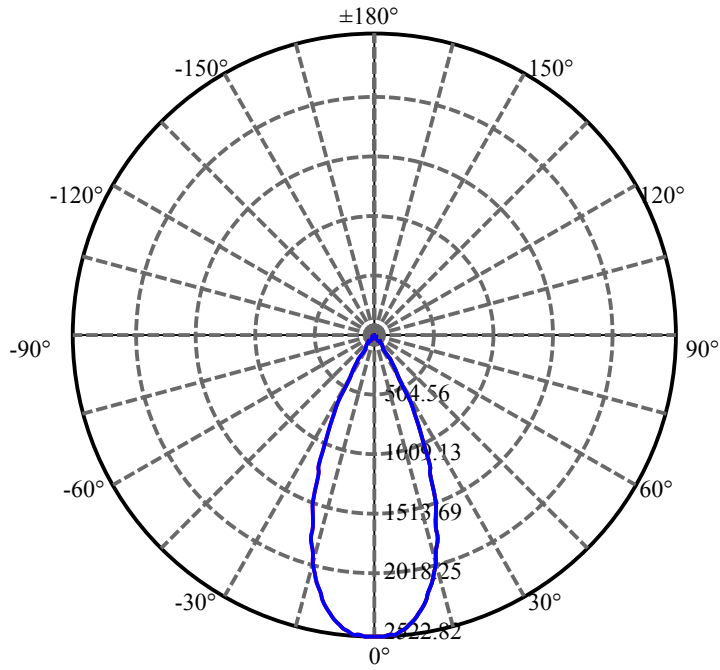
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	10.278	1.101	1351.547	0.06%	99.11%
77.0	10.051	1.084	1352.631	0.06%	99.19%
78.0	9.759	1.060	1353.692	0.06%	99.27%
79.0	9.415	1.030	1354.722	0.06%	99.35%
80.0	9.049	0.995	1355.717	0.06%	99.42%
81.0	8.742	0.962	1356.679	0.06%	99.49%
82.0	8.383	0.929	1357.608	0.05%	99.56%
83.0	7.937	0.887	1358.495	0.05%	99.62%
84.0	7.440	0.838	1359.333	0.05%	99.68%
85.0	6.971	0.787	1360.119	0.05%	99.74%
86.0	6.679	0.746	1360.866	0.04%	99.80%
87.0	6.489	0.721	1361.586	0.04%	99.85%
88.0	6.364	0.704	1362.29	0.04%	99.90%
89.0	6.211	0.689	1362.98	0.04%	99.95%
90.0	6.072	0.673	1363.653	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1196.61	69.77%	87.75%
0-40	1291.84	75.33%	94.73%
0-60	1332.31	77.69%	97.70%
0-90	1362.98	79.47%	99.95%
0-120	1362.98	79.47%	99.95%
0-180	1363.65	79.51%	100.00%
60-90	30.66	1.79%	2.25%
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%
0-26.63	1090.92	63.61%	80.00%

ZONAL LUMEN SUMMARY

0-10	231.98
10-20	538.80
20-30	425.83
30-40	95.24
40-50	24.08
50-60	16.39
60-70	12.56
70-80	10.85
80-90	7.26
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



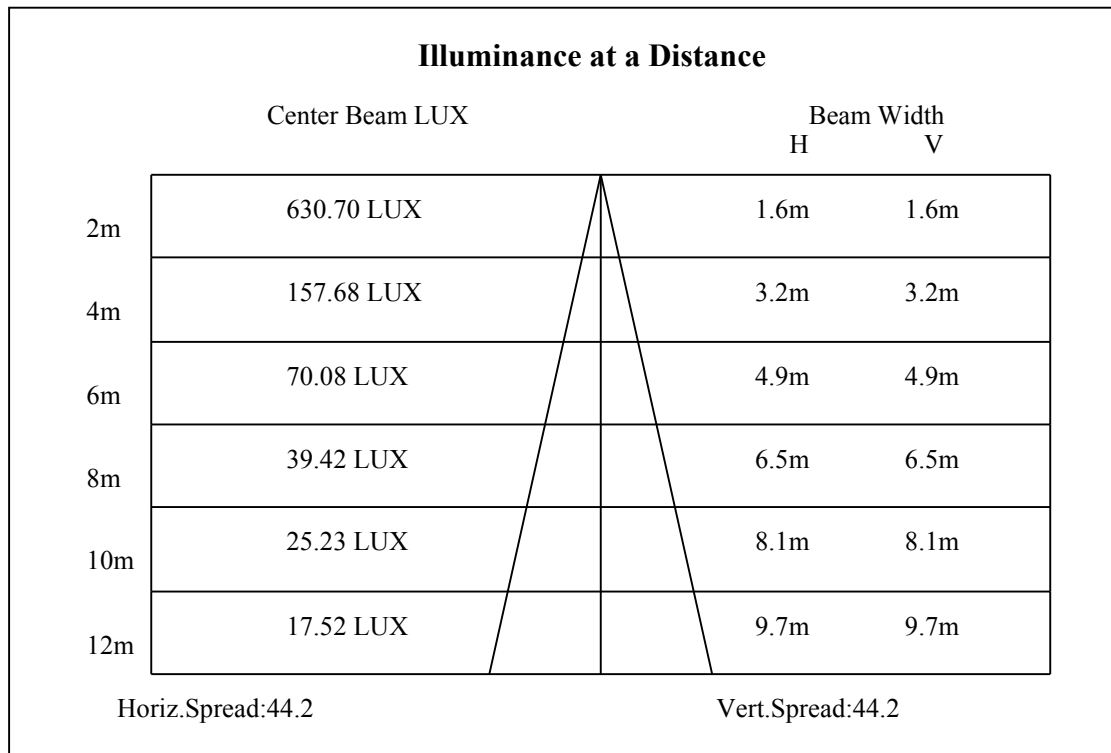
C0(Max): —————

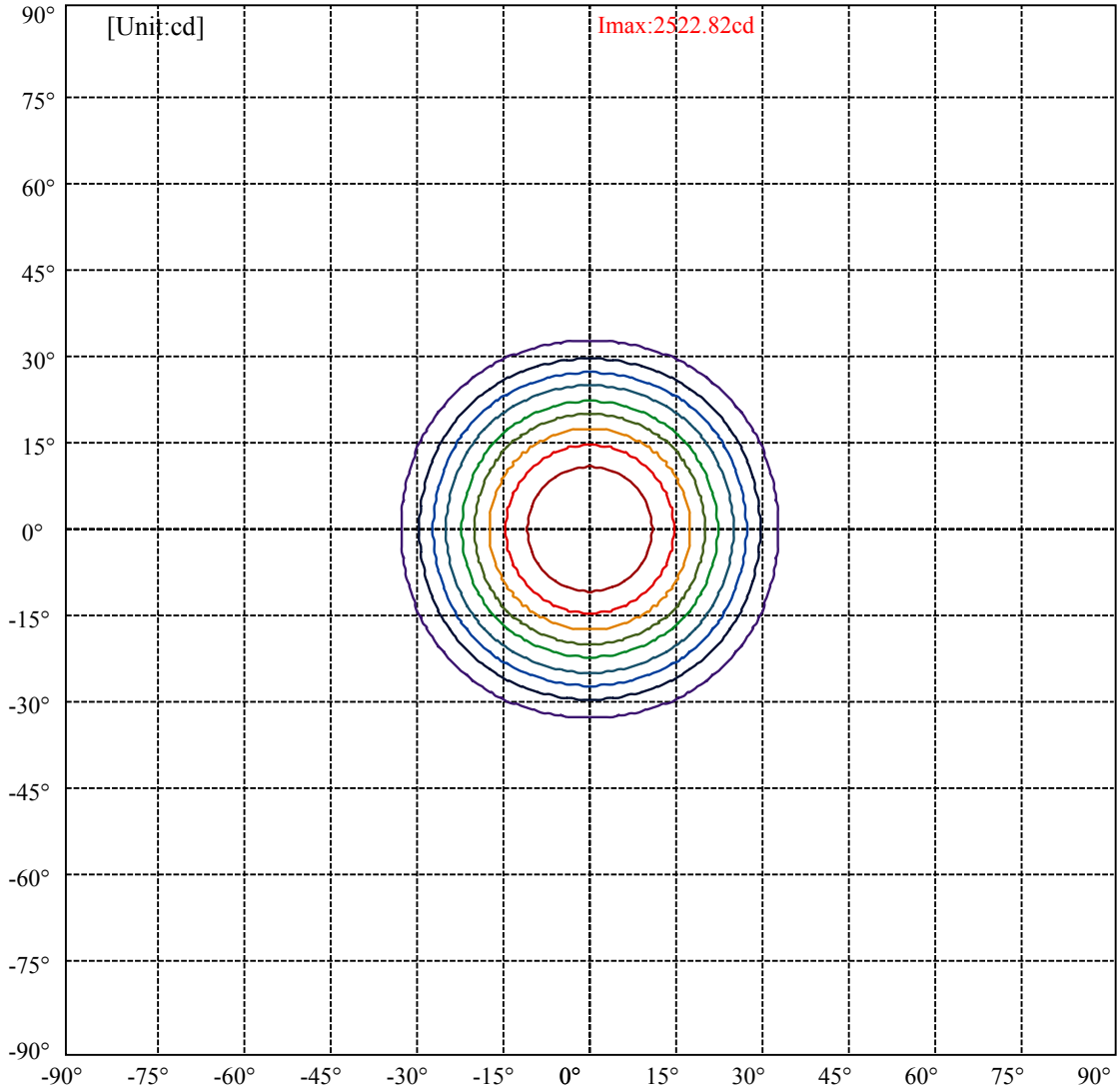
C0/C180: —————

C90/C270: —————

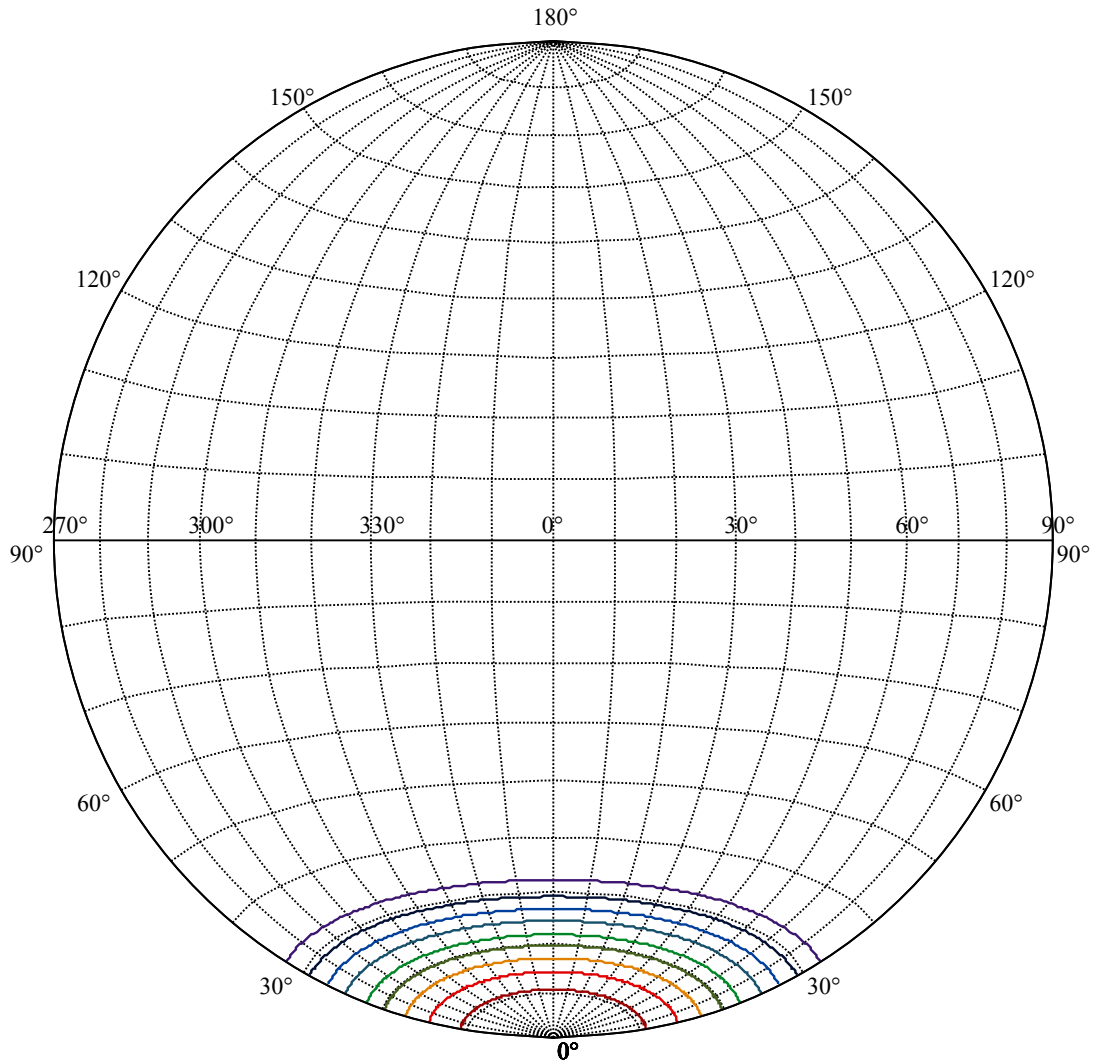
Field angle(10%Imax):C0/180Left:32.3 Right:32.3
:C90/270Left:32.3 Right:32.3

Beam Angle(50%Imax):C0/180Left:21.9 Right:21.9
:C90/270Left:21.9 Right:21.9





(10%I _{max})	252.282	—
(20%I _{max})	504.563	—
(30%I _{max})	756.845	—
(40%I _{max})	1009.13	—
(50%I _{max})	1261.41	—
(60%I _{max})	1513.69	—
(70%I _{max})	1765.97	—
(80%I _{max})	2018.25	—
(90%I _{max})	2270.54	—



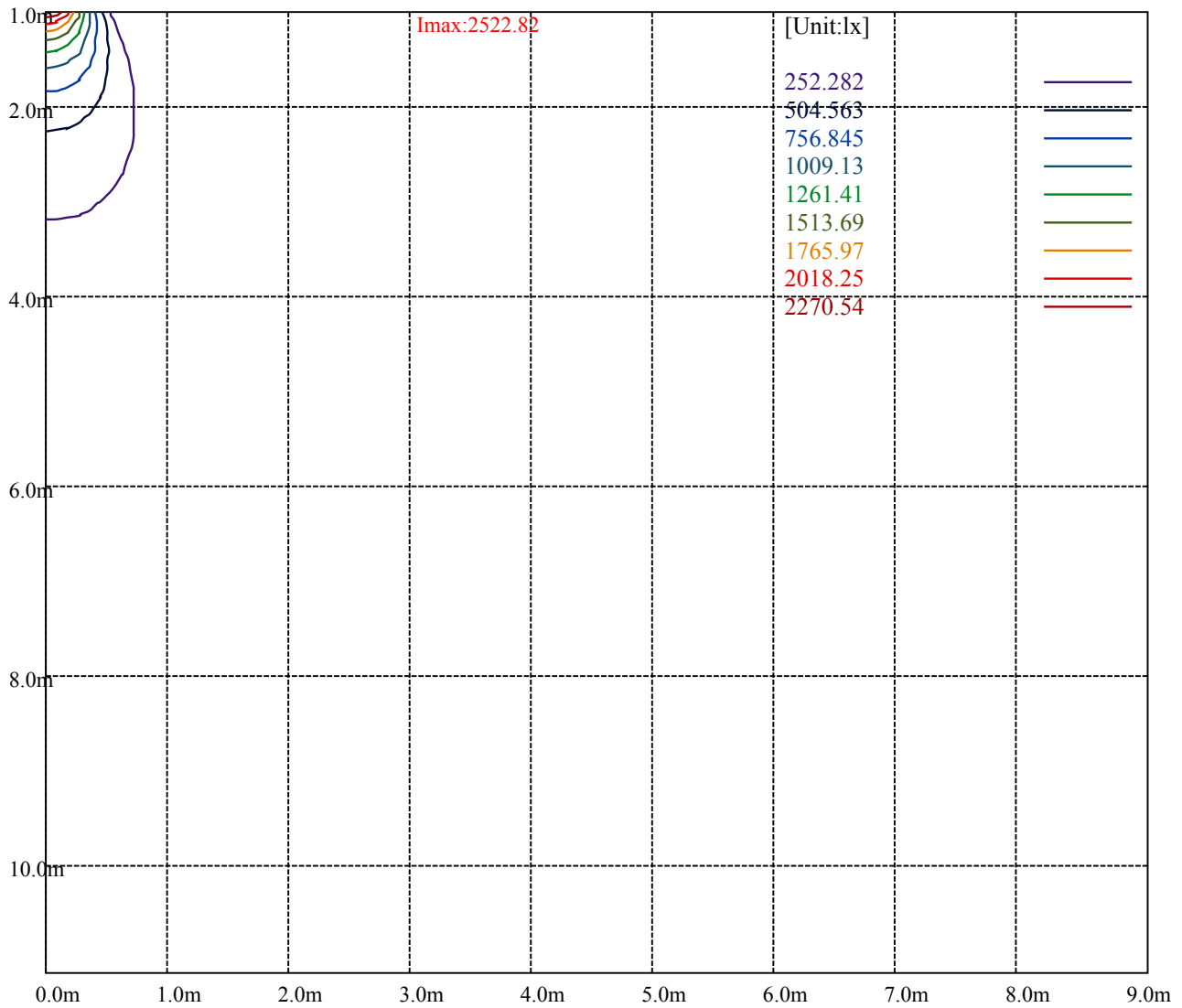
House

[Unit:cd]

Road

Imax:2522.82

(10%Imax)	252.282	—
(20%Imax)	504.563	—
(30%Imax)	756.845	—
(40%Imax)	1009.13	—
(50%Imax)	1261.41	—
(60%Imax)	1513.69	—
(70%Imax)	1765.97	—
(80%Imax)	2018.25	—
(90%Imax)	2270.54	—



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

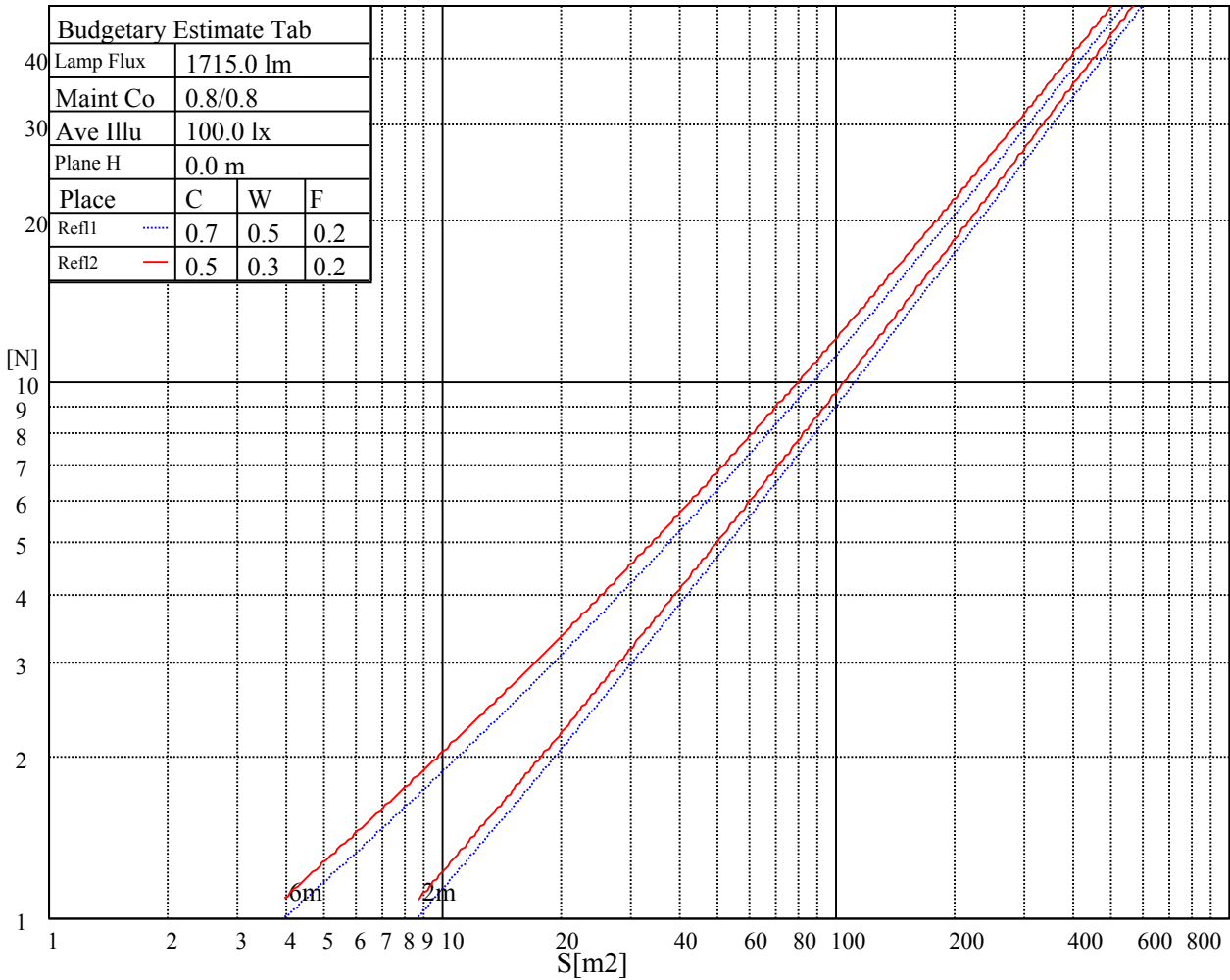
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

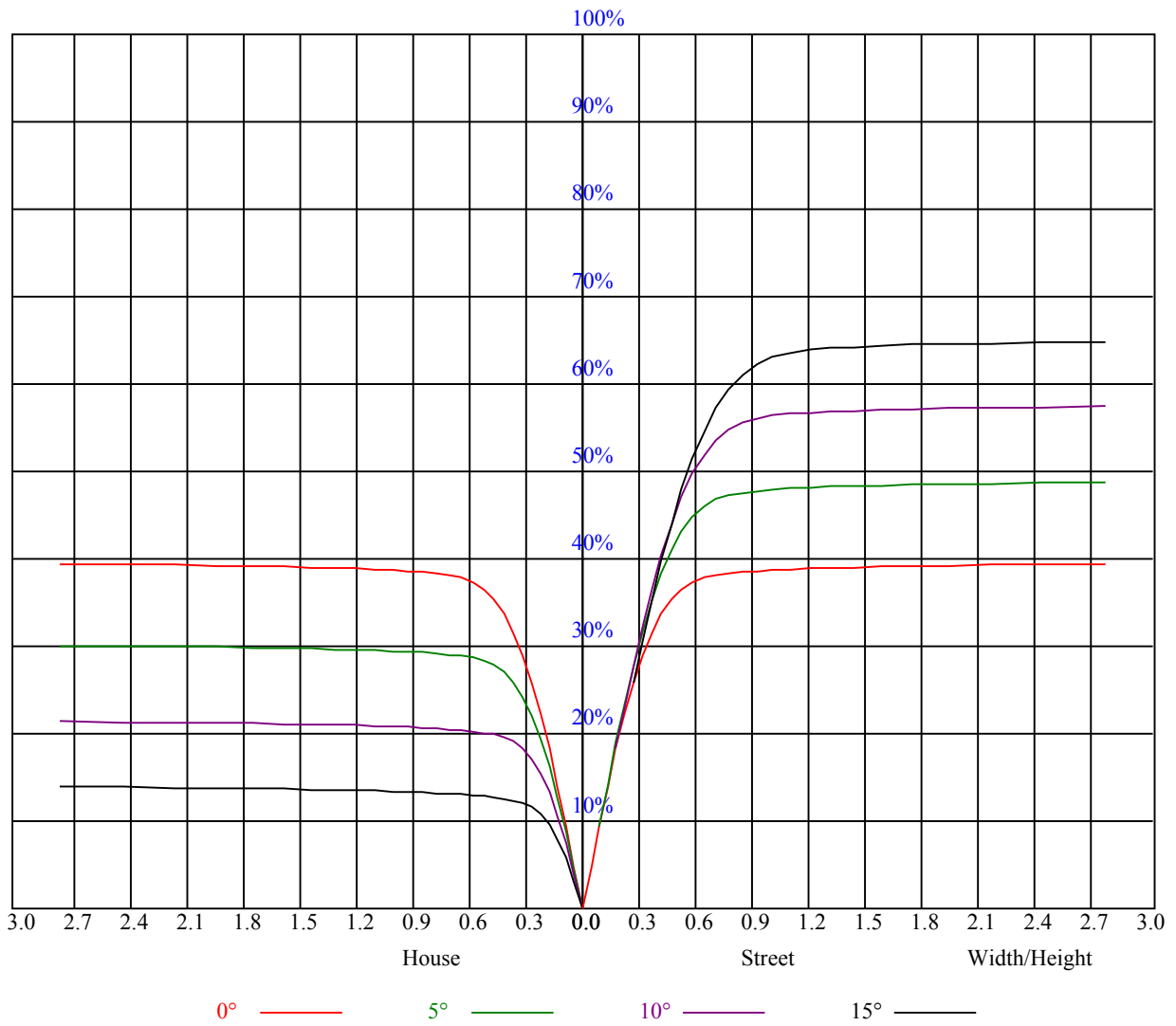


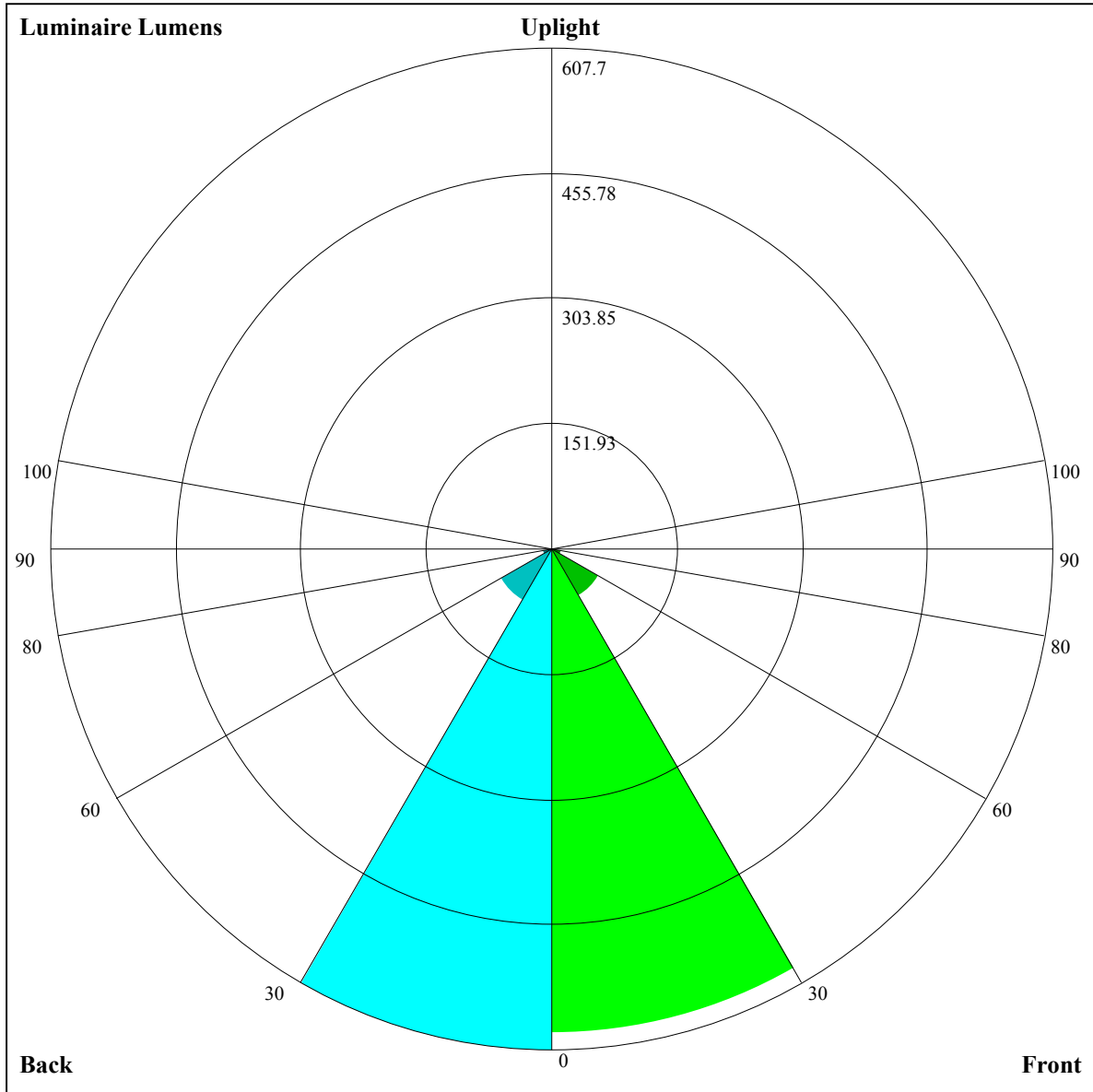
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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	0.95	0.95	0.95	0.92	0.92	0.92	0.88	0.88	0.88	0.85	0.85	0.85	0.81	0.81	0.81	0.80
1	0.88	0.86	0.85	0.87	0.85	0.83	0.83	0.82	0.81	0.80	0.79	0.78	0.78	0.77	0.76	0.75
2	0.83	0.80	0.78	0.82	0.79	0.77	0.79	0.77	0.75	0.77	0.75	0.73	0.75	0.73	0.72	0.71
3	0.78	0.75	0.72	0.77	0.74	0.71	0.75	0.72	0.70	0.73	0.71	0.69	0.71	0.70	0.68	0.67
4	0.74	0.70	0.67	0.73	0.70	0.67	0.72	0.68	0.66	0.70	0.67	0.65	0.69	0.66	0.64	0.63
5	0.70	0.66	0.63	0.70	0.66	0.63	0.68	0.65	0.62	0.67	0.64	0.62	0.66	0.63	0.61	0.60
6	0.67	0.63	0.60	0.66	0.62	0.59	0.65	0.62	0.59	0.64	0.61	0.59	0.63	0.60	0.58	0.57
7	0.64	0.60	0.57	0.63	0.59	0.56	0.62	0.59	0.56	0.61	0.58	0.56	0.61	0.58	0.56	0.55
8	0.61	0.57	0.54	0.60	0.57	0.54	0.60	0.56	0.54	0.59	0.56	0.53	0.58	0.55	0.53	0.52
9	0.58	0.54	0.51	0.58	0.54	0.51	0.57	0.54	0.51	0.57	0.53	0.51	0.56	0.53	0.51	0.50
10	0.56	0.52	0.49	0.56	0.52	0.49	0.55	0.51	0.49	0.54	0.51	0.49	0.54	0.51	0.49	0.48





Luminaire Lumens:

FL=587,FM=66.28,FH=11.78,FVH=3.94

BL=607.7,BM=71.2,BH=11.7,BVH=4

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	2521.21	2508.92	2508.33	2504.24	2486.09	2467.37	2425.23	2388.36	2356.17
45.0	2528.82	2520.04	2515.94	2509.50	2501.31	2487.85	2467.37	2427.57	2397.73
90.0	2515.94	2513.60	2508.92	2497.21	2484.34	2458.59	2432.84	2408.26	2373.73
135.0	2525.30	2520.04	2527.06	2524.13	2522.96	2511.84	2495.46	2479.66	2447.47
180.0	2521.21	2522.38	2517.70	2527.06	2518.87	2513.01	2497.80	2469.12	2447.47
225.0	2528.82	2524.13	2527.06	2526.47	2511.84	2484.92	2470.88	2439.28	2395.38
270.0	2515.94	2520.62	2525.30	2525.89	2521.21	2504.82	2489.61	2463.27	2422.30
315.0	2525.30	2527.06	2518.28	2515.94	2497.21	2483.75	2455.66	2426.40	2384.85
360.0	2521.21	2508.92	2508.33	2504.24	2486.09	2467.37	2425.23	2388.36	2356.17
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2301.75	2254.93	2207.53	2149.00	2072.34	2000.94	1924.28	1835.91	1720.62
45.0	2354.42	2292.97	2257.27	2192.31	2133.20	2074.10	1998.60	1906.72	1811.92
90.0	2341.54	2283.61	2233.28	2170.66	2084.63	2012.06	1909.65	1817.18	1727.64
135.0	2412.94	2367.88	2312.28	2262.54	2203.43	2122.08	2051.86	1968.76	1853.47
180.0	2405.92	2364.95	2327.50	2253.76	2197.58	2120.33	2047.76	1969.34	1888.58
225.0	2353.25	2298.82	2225.67	2172.41	2106.28	2020.84	1947.10	1859.90	1765.10
270.0	2387.19	2340.96	2292.97	2233.86	2159.54	2089.90	2019.67	1923.69	1836.49
315.0	2324.57	2271.90	2200.50	2141.40	2047.18	1976.95	1898.53	1803.14	1691.94
360.0	2301.75	2254.93	2207.53	2149.00	2072.34	2000.94	1924.28	1835.91	1720.62
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1630.50	1533.35	1424.50	1151.20	1151.20	1102.97	993.89	889.54	753.30
45.0	1733.49	1632.25	1522.23	1439.71	1343.15	1231.37	1133.05	1026.54	898.38
90.0	1610.01	1520.47	1426.84	1155.82	1155.82	1106.19	1001.09	898.09	765.71
135.0	1766.85	1679.07	1590.11	1469.56	1386.46	1286.38	1187.48	1064.00	952.80
180.0	1772.12	1677.31	1583.68	1468.39	1379.43	1279.95	1183.97	1056.39	952.22
225.0	1648.64	1550.90	1459.61	1368.90	1148.97	1148.97	1049.78	922.31	818.85
270.0	1745.20	1621.72	1522.23	1405.77	1311.55	1213.82	1115.50	987.92	883.75
315.0	1596.55	1499.99	1389.97	1167.76	1167.76	1074.00	968.14	867.24	744.87
360.0	1630.50	1533.35	1424.50	1151.20	1151.20	1102.97	993.89	889.54	753.30
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	655.22	556.31	439.56	356.11	278.16	213.84	150.34	116.23	93.99
45.0	795.38	684.19	556.02	463.56	376.94	298.52	298.52	156.49	118.57
90.0	663.35	564.57	470.87	365.06	288.40	205.71	152.74	114.47	84.16
135.0	846.29	714.62	609.86	490.48	399.77	319.59	300.28	216.07	124.18
180.0	849.81	720.47	622.74	520.32	403.86	319.59	298.52	214.08	123.37
225.0	719.65	595.52	497.50	402.69	304.02	234.03	174.10	128.34	92.64
270.0	786.60	691.21	570.65	470.58	386.31	307.30	307.30	163.63	115.35
315.0	647.90	547.89	455.31	353.30	274.47	210.15	157.78	115.82	92.47
360.0	655.22	556.31	439.56	356.11	278.16	213.84	150.34	116.23	93.99
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	78.95	65.60	57.70	50.33	45.71	41.84	37.69	34.70	32.30
45.0	91.94	72.80	62.74	55.19	47.87	43.31	38.80	35.82	33.30
90.0	70.23	60.40	51.73	46.47	42.25	38.62	35.64	32.42	30.31
135.0	94.22	76.25	62.62	54.84	48.75	44.18	39.56	36.52	33.42
180.0	94.69	76.55	62.68	54.78	48.75	43.95	39.15	36.11	33.47
225.0	74.97	63.38	55.13	47.64	43.07	38.45	35.46	32.95	30.31
270.0	90.59	74.03	60.80	53.14	47.46	43.07	38.57	35.52	32.83
315.0	78.01	63.91	55.77	49.92	44.07	40.26	36.93	33.53	31.19
360.0	78.95	65.60	57.70	50.33	45.71	41.84	37.69	34.70	32.30

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	30.26	28.15	26.51	25.22	23.94	22.47	21.54	20.66	19.61
45.0	31.02	28.62	27.04	25.63	24.35	22.88	21.77	20.89	19.96
90.0	28.56	26.63	25.34	24.11	22.77	21.83	20.72	19.84	19.08
135.0	31.25	29.44	27.45	26.04	24.70	23.29	22.24	21.30	20.31
180.0	30.72	28.97	27.10	25.81	24.58	23.41	22.12	21.19	20.37
225.0	28.56	26.98	25.28	23.99	22.94	22.00	20.89	20.01	19.20
270.0	30.67	28.44	26.86	25.57	24.17	23.12	22.12	20.89	20.07
315.0	29.26	27.62	25.81	24.52	23.41	22.36	21.13	20.19	19.14
360.0	30.26	28.15	26.51	25.22	23.94	22.47	21.54	20.66	19.61
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	18.84	17.97	17.32	16.62	16.09	15.45	14.86	14.34	13.87
45.0	18.96	18.20	17.26	16.62	15.98	15.22	14.69	14.22	13.58
90.0	18.38	17.44	16.74	16.09	15.57	15.04	14.51	14.05	13.52
135.0	19.37	18.73	17.97	17.32	16.56	15.98	15.45	14.86	14.22
180.0	19.61	18.73	18.02	17.38	16.74	16.09	15.63	14.92	14.34
225.0	18.55	17.73	17.09	16.44	15.68	15.16	14.51	13.99	13.52
270.0	19.20	18.49	17.85	17.21	16.50	15.92	15.45	15.04	14.57
315.0	18.26	17.56	16.85	16.27	15.68	15.04	14.63	14.05	13.58
360.0	18.84	17.97	17.32	16.62	16.09	15.45	14.86	14.34	13.87
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	13.28	12.99	12.70	12.35	12.00	11.76	11.41	11.24	11.18
45.0	13.11	12.76	12.29	11.88	11.65	11.41	11.24	10.89	10.65
90.0	13.11	12.64	12.17	11.88	11.59	11.24	10.94	10.77	10.71
135.0	13.64	13.23	12.76	12.35	12.00	11.70	11.41	11.06	10.59
180.0	13.87	13.28	12.76	12.35	11.88	11.59	11.29	10.94	10.59
225.0	12.99	12.47	12.11	11.76	11.47	11.12	10.77	10.48	10.30
270.0	13.87	13.46	13.05	12.64	12.35	12.00	11.70	11.47	11.12
315.0	12.93	12.52	12.11	11.88	11.53	11.41	11.12	10.83	10.71
360.0	13.28	12.99	12.70	12.35	12.00	11.76	11.41	11.24	11.18
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	11.12	11.06	11.06	10.89	10.77	10.53	10.18	9.66	9.13
45.0	10.65	10.59	10.53	10.48	10.30	10.12	9.89	9.48	9.13
90.0	10.71	10.65	10.59	10.53	10.36	10.18	9.95	9.60	9.19
135.0	10.48	10.42	10.42	10.24	10.12	9.89	9.66	9.42	9.07
180.0	10.48	10.48	10.48	10.36	10.12	9.89	9.48	9.19	8.84
225.0	10.24	10.18	10.01	9.89	9.60	9.31	9.01	8.72	8.60
270.0	11.00	10.89	10.77	10.65	10.53	10.36	10.12	9.83	9.60
315.0	10.77	10.77	10.77	10.65	10.42	10.12	9.77	9.42	8.84
360.0	11.12	11.06	11.06	10.89	10.77	10.53	10.18	9.66	9.13
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	8.66	8.25	7.72	7.26	6.96	6.67	6.50	6.44	6.26
45.0	8.72	8.19	7.78	7.37	6.96	6.67	6.50	6.38	6.26
90.0	8.72	8.31	7.61	7.08	6.73	6.50	6.32	6.20	6.09
135.0	8.95	8.78	8.54	8.02	7.26	6.85	6.61	6.44	6.32
180.0	8.60	8.54	8.31	7.90	7.26	6.91	6.73	6.55	6.38
225.0	8.43	8.19	7.84	7.20	6.85	6.61	6.44	6.32	6.09
270.0	9.42	8.90	8.25	7.67	7.02	6.67	6.44	6.32	6.14
315.0	8.43	7.90	7.43	7.02	6.73	6.55	6.38	6.26	6.14
360.0	8.66	8.25	7.72	7.26	6.96	6.67	6.50	6.44	6.26

Intensity data(cd)

C/γ(°)	90.0
0.0	6.09
45.0	6.03
90.0	6.09
135.0	6.14
180.0	6.09
225.0	6.09
270.0	6.03
315.0	6.03
360.0	6.09