



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

Nata

Client:

LumCAT: 2-2569-L

Luminaire: 92.70.411.00

Report No: 2024906-B008

Ballast type: AC

Test No: 2024906-C008

Voltage(V): 24.310

LampCAT: NICHIA NFCWJ108B-V3

Current(A): 0.563

Lamp flux(lm): 2557.0

Power (W): 19.320

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2304.05, Efficiency(%): 90.11% , Luminous Efficacy(lm/W): 119.26

Central intensity(cd): 3686.195, Maximum intensity(cd): 3686.195

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=48.2

[C90/270]Total=48.2

Field angle(10%Imax): [C0/180]Total=72.4

[C90/270]Total=72.4

Maximum s/h(1/2): C0_180=0.75 C90_270=0.75

Maximum s/h(1/4): C0_180=0.75 C90_270=0.75

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 90.11%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 99.107%

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/9/6
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3686.195	0.000	0	0.00%	0.00%
1.0	3681.326	3.525	3.525	0.14%	0.15%
2.0	3670.393	10.552	14.077	0.41%	0.61%
3.0	3648.731	17.505	31.582	0.68%	1.37%
4.0	3617.811	24.323	55.905	0.95%	2.43%
5.0	3583.061	30.978	86.883	1.21%	3.77%
6.0	3526.779	37.364	124.247	1.46%	5.39%
7.0	3472.811	43.446	167.694	1.70%	7.28%
8.0	3404.841	49.222	216.916	1.92%	9.41%
9.0	3328.014	54.566	271.482	2.13%	11.78%
10.0	3243.192	59.467	330.949	2.33%	14.36%
11.0	3158.494	63.966	394.915	2.50%	17.14%
12.0	3065.176	68.034	462.948	2.66%	20.09%
13.0	2970.110	71.624	534.572	2.80%	23.20%
14.0	2874.564	74.811	609.383	2.93%	26.45%
15.0	2781.450	77.648	687.032	3.04%	29.82%
16.0	2679.117	80.013	767.044	3.13%	33.29%
17.0	2592.770	82.097	849.142	3.21%	36.85%
18.0	2496.522	83.911	933.053	3.28%	40.50%
19.0	2376.876	84.787	1017.84	3.32%	44.18%
20.0	2291.909	85.452	1103.292	3.34%	47.88%
21.0	2186.186	85.988	1189.28	3.36%	51.62%
22.0	2070.220	85.534	1274.815	3.35%	55.33%
23.0	1967.086	84.714	1359.528	3.31%	59.01%
24.0	1856.560	83.599	1443.127	3.27%	62.63%
25.0	1741.632	81.815	1524.942	3.20%	66.19%
26.0	1639.398	79.810	1604.752	3.12%	69.65%
27.0	1505.600	76.943	1681.695	3.01%	72.99%
28.0	1348.445	72.258	1753.953	2.83%	76.12%
29.0	1210.192	66.941	1820.894	2.62%	79.03%
30.0	1107.643	62.581	1883.475	2.45%	81.75%
31.0	983.536	58.194	1941.67	2.28%	84.27%
32.0	856.907	52.727	1994.396	2.06%	86.56%
33.0	715.494	46.324	2040.72	1.81%	88.57%
34.0	596.690	39.711	2080.43	1.55%	90.29%
35.0	494.521	33.889	2114.319	1.33%	91.77%
36.0	385.743	28.028	2142.347	1.10%	92.98%
37.0	305.060	22.530	2164.877	0.88%	93.96%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	241.788	18.253	2183.13	0.71%	94.75%
39.0	181.518	14.449	2197.579	0.57%	95.38%
40.0	144.599	11.374	2208.953	0.44%	95.87%
41.0	108.916	9.028	2217.98	0.35%	96.26%
42.0	91.636	7.286	2225.267	0.28%	96.58%
43.0	81.676	6.420	2231.687	0.25%	96.86%
44.0	71.524	5.782	2237.469	0.23%	97.11%
45.0	62.714	5.159	2242.628	0.20%	97.33%
46.0	56.038	4.644	2247.272	0.18%	97.54%
47.0	49.895	4.213	2251.485	0.16%	97.72%
48.0	44.566	3.819	2255.304	0.15%	97.88%
49.0	39.882	3.468	2258.772	0.14%	98.03%
50.0	35.913	3.160	2261.932	0.12%	98.17%
51.0	32.602	2.899	2264.831	0.11%	98.30%
52.0	29.750	2.676	2267.506	0.10%	98.41%
53.0	27.444	2.488	2269.994	0.10%	98.52%
54.0	25.145	2.318	2272.312	0.09%	98.62%
55.0	23.134	2.155	2274.467	0.08%	98.72%
56.0	21.636	2.023	2276.49	0.08%	98.80%
57.0	20.033	1.905	2278.395	0.07%	98.89%
58.0	18.601	1.787	2280.182	0.07%	98.96%
59.0	17.470	1.686	2281.868	0.07%	99.04%
60.0	16.308	1.596	2283.464	0.06%	99.11%
61.0	15.256	1.506	2284.97	0.06%	99.17%
62.0	14.350	1.427	2286.397	0.06%	99.23%
63.0	13.436	1.351	2287.748	0.05%	99.29%
64.0	12.720	1.283	2289.032	0.05%	99.35%
65.0	11.945	1.221	2290.252	0.05%	99.40%
66.0	11.156	1.153	2291.405	0.05%	99.45%
67.0	10.539	1.091	2292.496	0.04%	99.50%
68.0	9.882	1.034	2293.53	0.04%	99.54%
69.0	9.244	0.976	2294.506	0.04%	99.59%
70.0	8.660	0.920	2295.426	0.04%	99.63%
71.0	8.035	0.863	2296.288	0.03%	99.66%
72.0	7.503	0.808	2297.096	0.03%	99.70%
73.0	6.971	0.757	2297.853	0.03%	99.73%
74.0	6.491	0.708	2298.561	0.03%	99.76%
75.0	6.012	0.661	2299.222	0.03%	99.79%

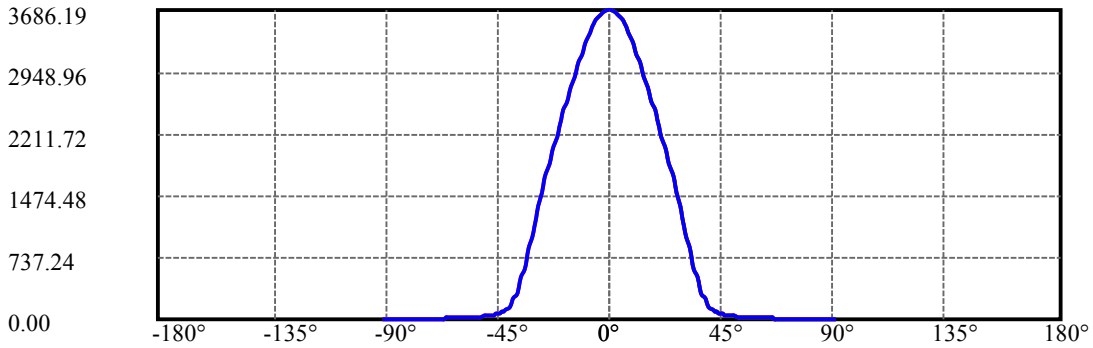
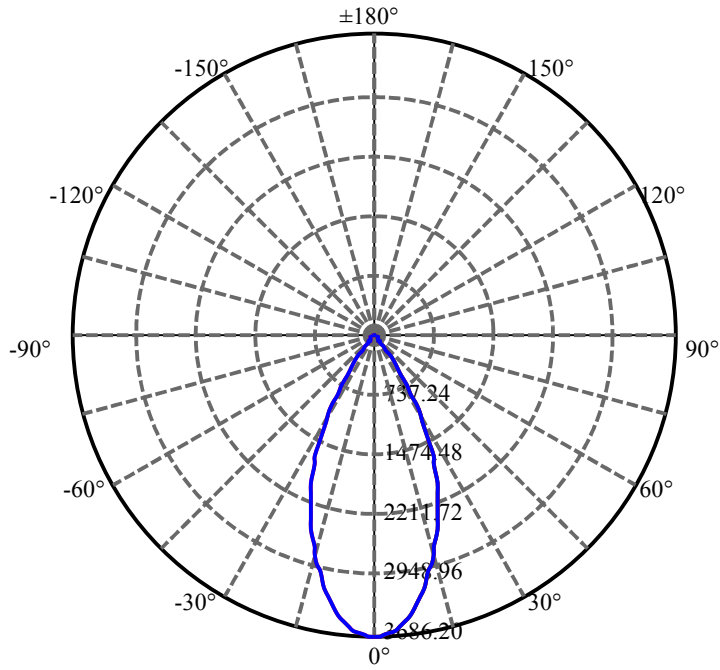
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	5.493	0.611	2299.832	0.02%	99.82%
77.0	5.085	0.564	2300.396	0.02%	99.84%
78.0	4.619	0.519	2300.916	0.02%	99.86%
79.0	4.120	0.470	2301.385	0.02%	99.88%
80.0	3.732	0.423	2301.809	0.02%	99.90%
81.0	3.298	0.380	2302.189	0.01%	99.92%
82.0	2.924	0.337	2302.526	0.01%	99.93%
83.0	2.556	0.298	2302.824	0.01%	99.95%
84.0	2.227	0.261	2303.085	0.01%	99.96%
85.0	1.925	0.227	2303.311	0.01%	99.97%
86.0	1.669	0.196	2303.508	0.01%	99.98%
87.0	1.452	0.171	2303.679	0.01%	99.98%
88.0	1.209	0.146	2303.824	0.01%	99.99%
89.0	0.992	0.121	2303.945	0.00%	100.00%
90.0	0.874	0.102	2304.047	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1883.48	73.66%	81.75%
0-40	2208.95	86.39%	95.87%
0-60	2283.46	89.30%	99.11%
0-90	2303.95	90.10%	100.00%
0-120	2303.95	90.10%	100.00%
0-180	2304.05	90.11%	100.00%
60-90	20.48	0.80%	0.89%
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%
0-29.36	1843.24	72.09%	80.00%

ZONAL LUMEN SUMMARY

0-10	330.95
10-20	772.34
20-30	780.18
30-40	325.48
40-50	52.98
50-60	21.53
60-70	11.96
70-80	6.38
80-90	2.14
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: ———

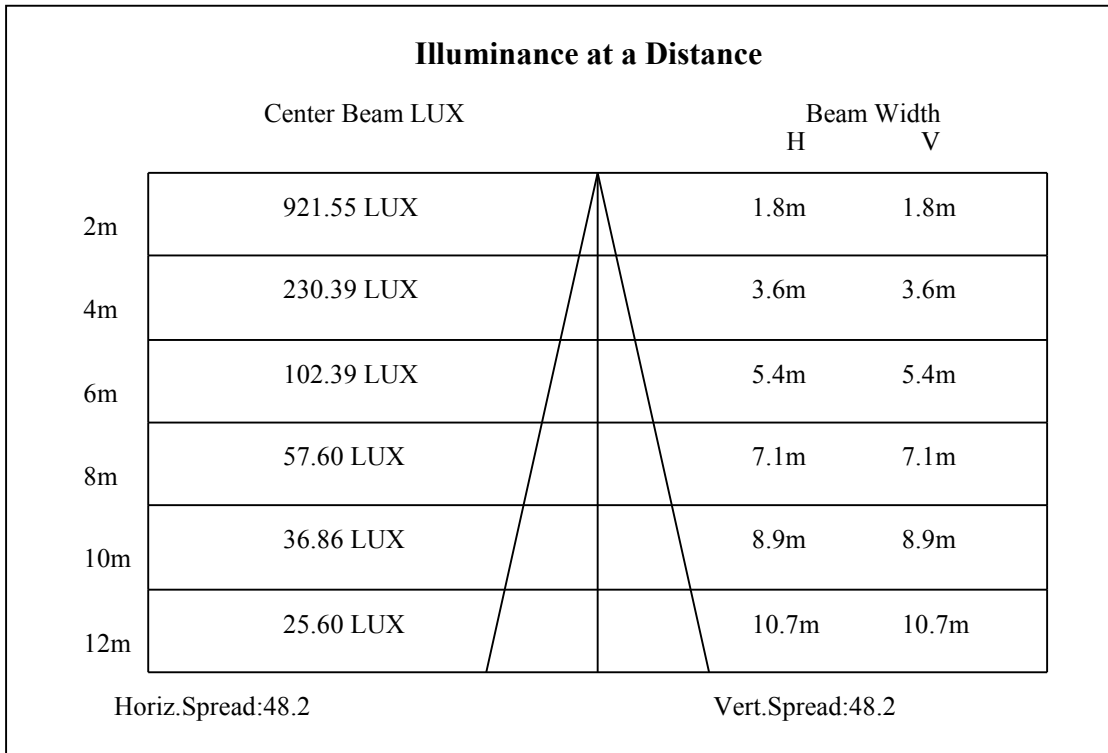
C90/C270: ———

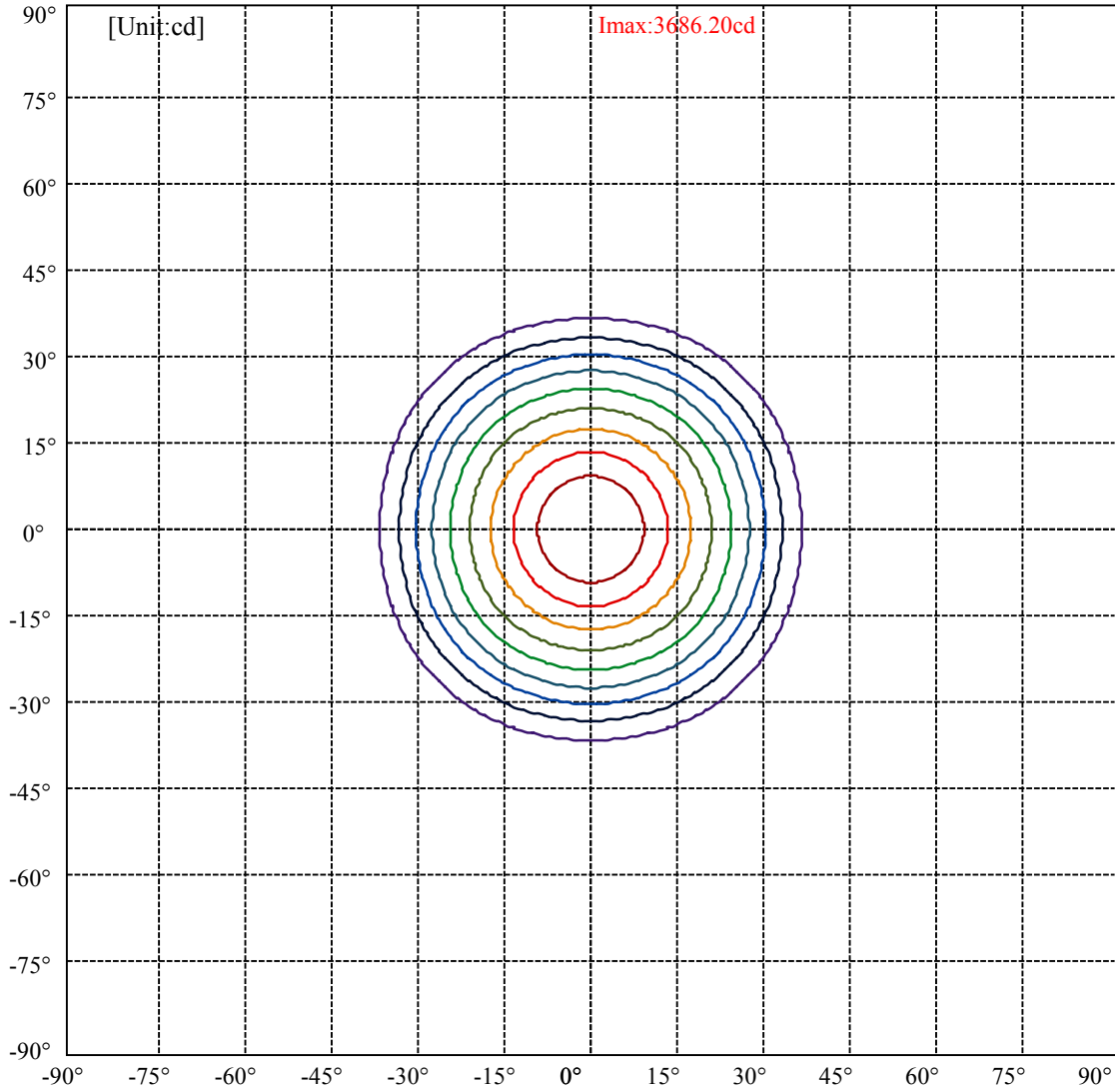
Field angle(10%Imax):C0/180Left:36.2 Right:36.2

:C90/270Left:36.2 Right:36.2

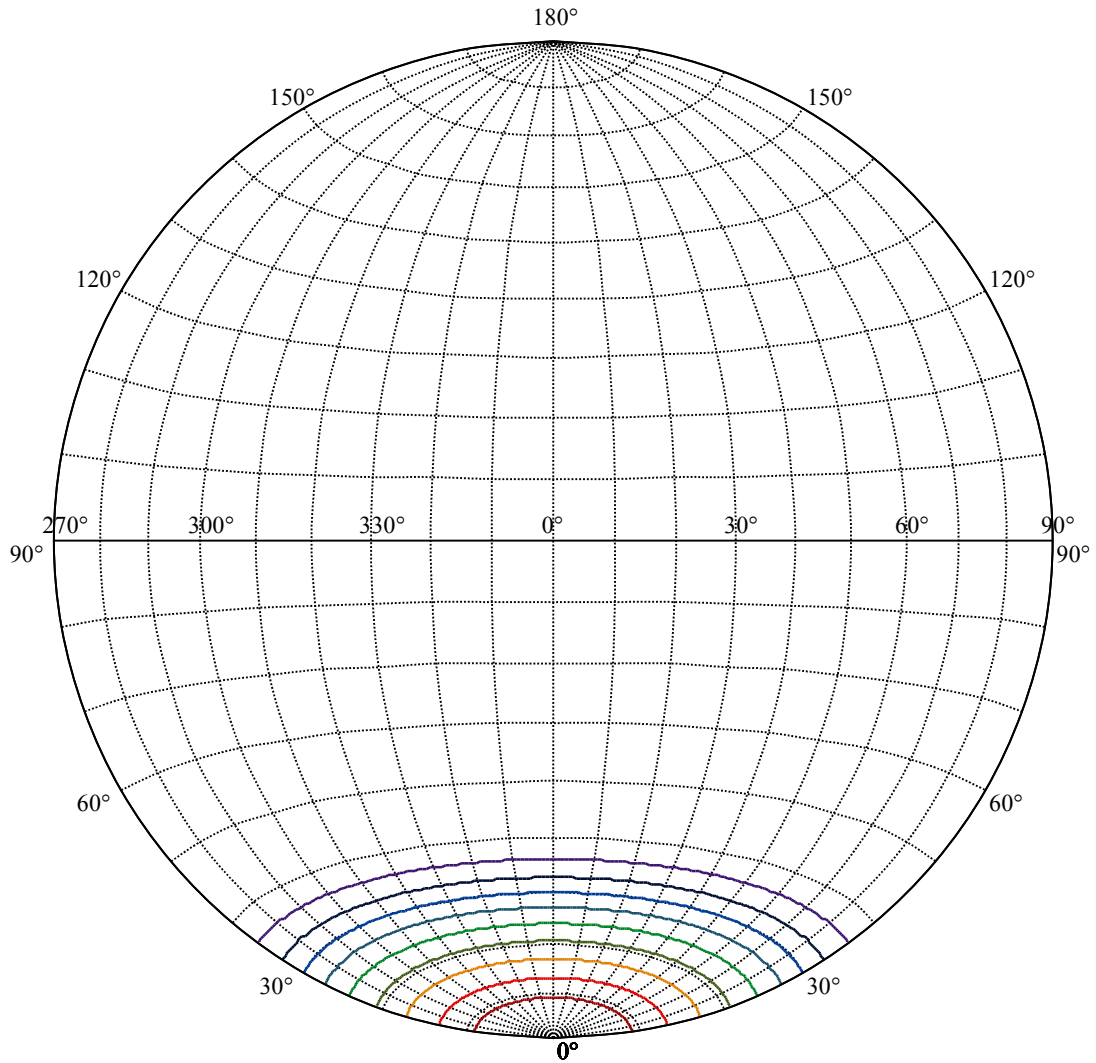
Beam Angle(50%Imax):C0/180Left:24.1 Right:24.1

:C90/270Left:24.1 Right:24.1





(10%Imax) 368.619	—
(20%Imax) 737.239	—
(30%Imax) 1105.86	—
(40%Imax) 1474.48	—
(50%Imax) 1843.1	—
(60%Imax) 2211.72	—
(70%Imax) 2580.34	—
(80%Imax) 2948.96	—
(90%Imax) 3317.58	—



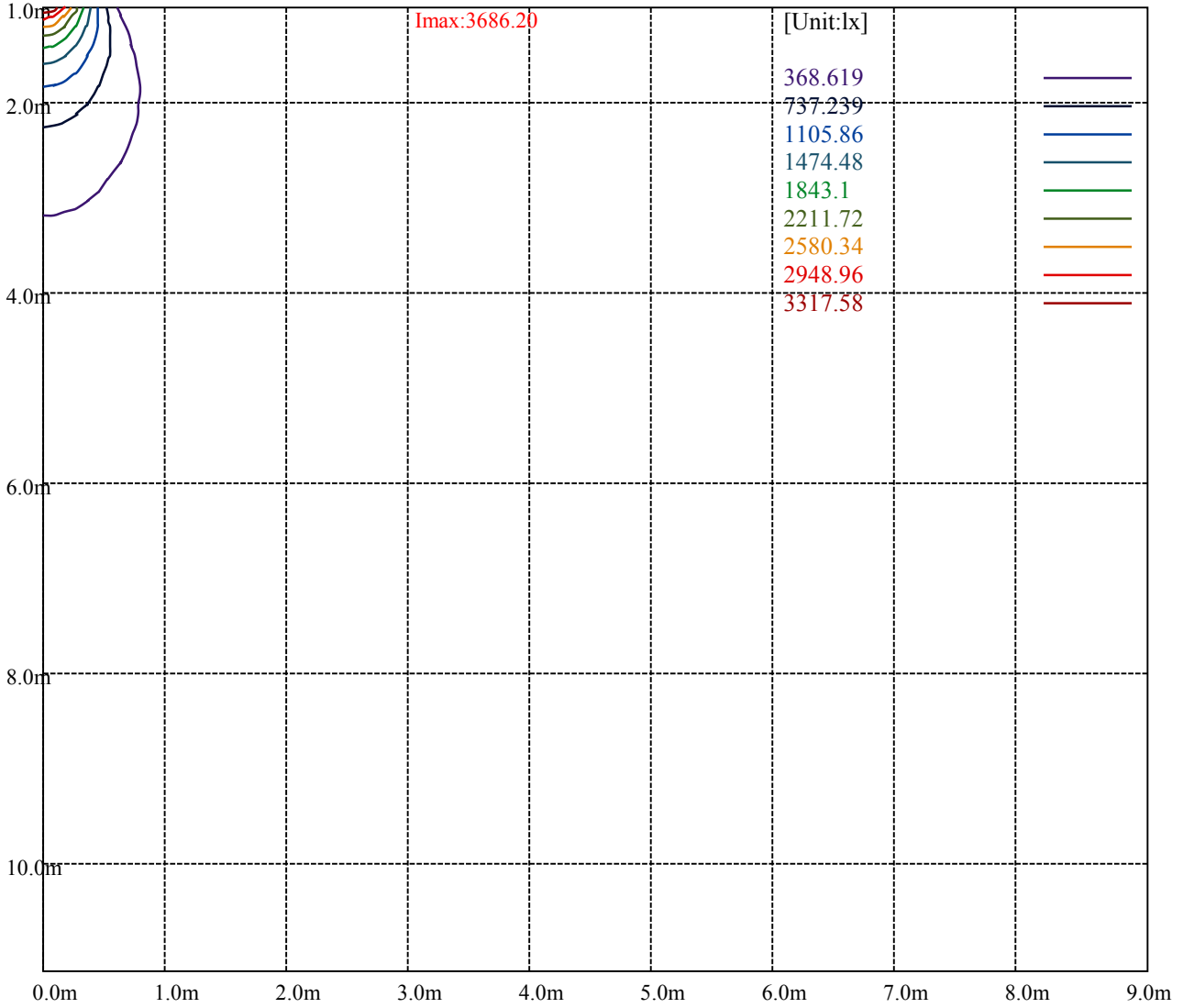
House

[Unit:cd]

Road

Imax:3686.20

(10%Imax)	368.619	—
(20%Imax)	737.239	—
(30%Imax)	1105.86	—
(40%Imax)	1474.48	—
(50%Imax)	1843.1	—
(60%Imax)	2211.72	—
(70%Imax)	2580.34	—
(80%Imax)	2948.96	—
(90%Imax)	3317.58	—



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

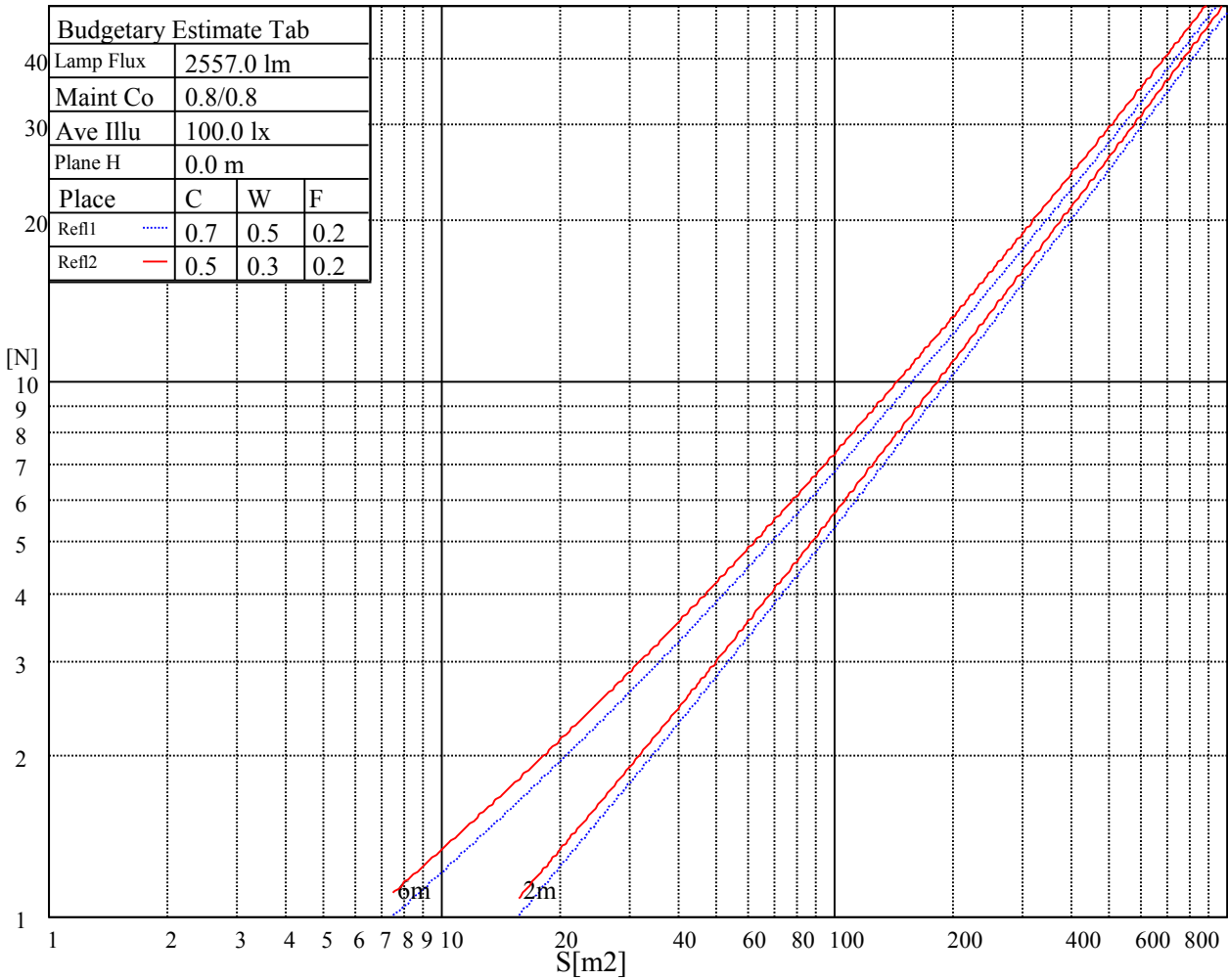
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

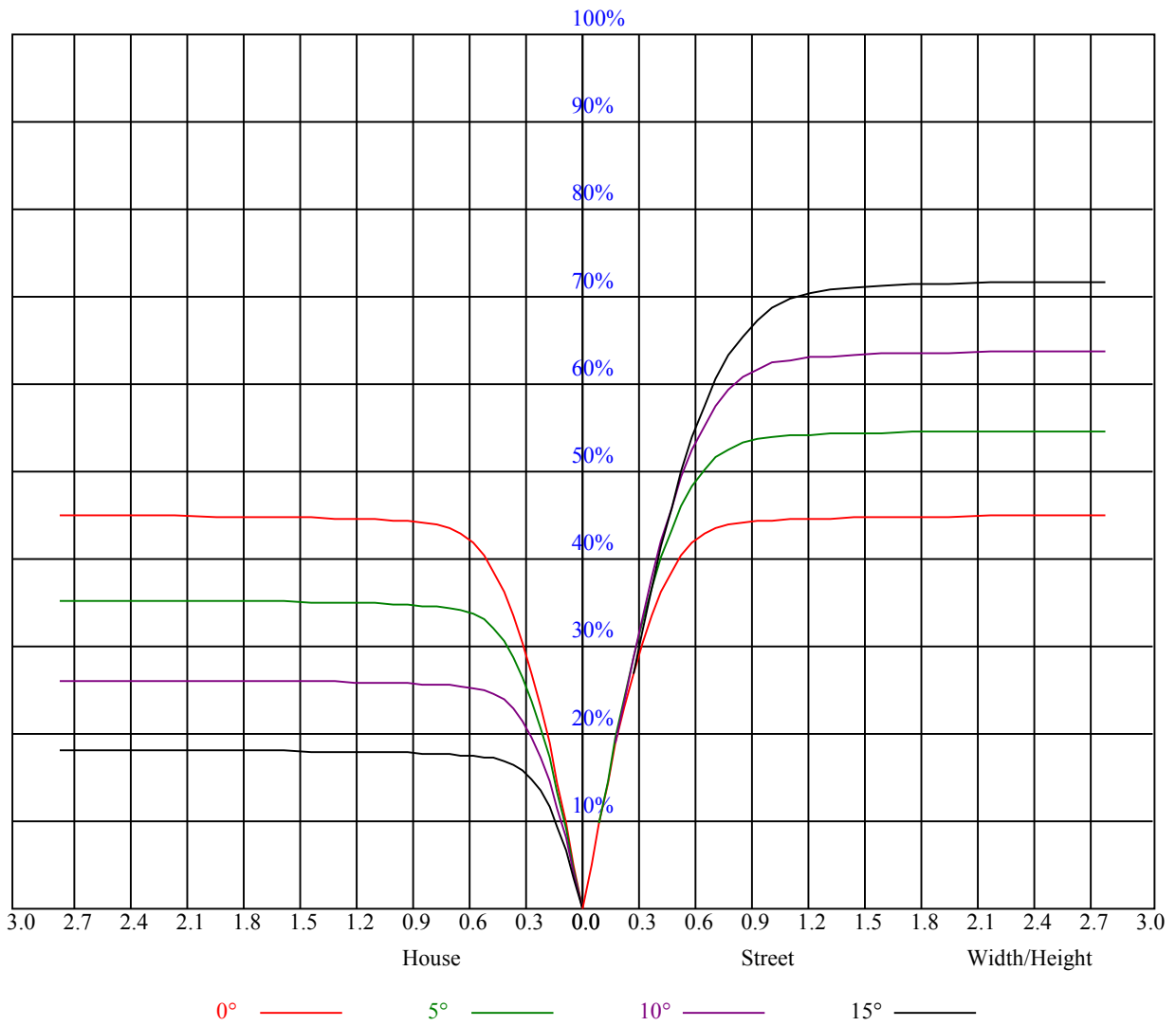


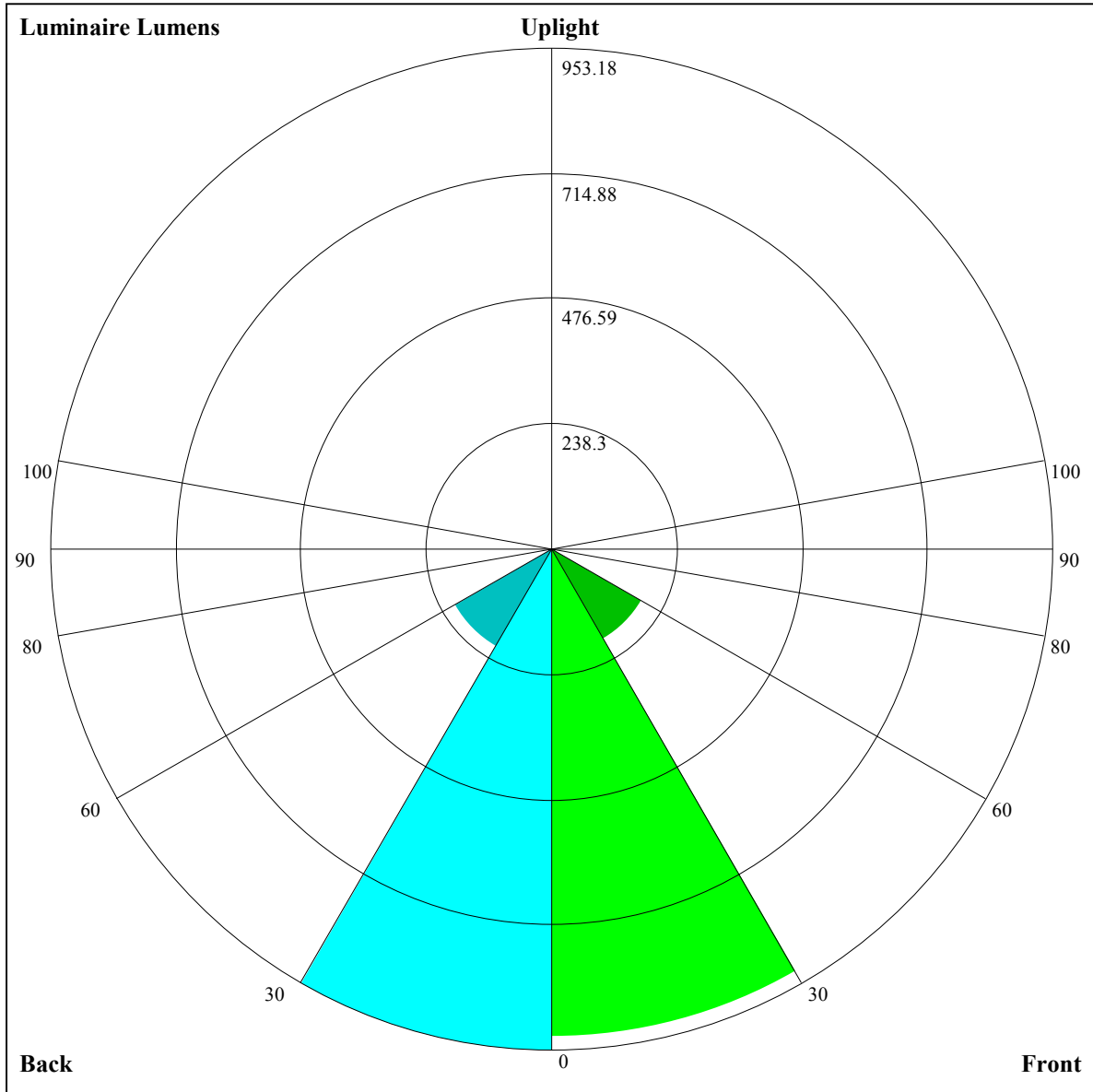
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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 RHOFC=20 CU															
0	1.07	1.07	1.07	1.05	1.05	1.05	1.00	1.00	1.00	0.96	0.96	0.96	0.92	0.92	0.92	0.90
1	1.00	0.98	0.96	0.98	0.96	0.95	0.95	0.93	0.92	0.91	0.90	0.89	0.88	0.87	0.86	0.85
2	0.94	0.90	0.88	0.92	0.89	0.87	0.89	0.87	0.85	0.87	0.85	0.83	0.84	0.83	0.81	0.80
3	0.88	0.84	0.81	0.87	0.83	0.80	0.85	0.81	0.79	0.82	0.80	0.78	0.80	0.78	0.76	0.75
4	0.83	0.78	0.75	0.82	0.78	0.74	0.80	0.76	0.74	0.78	0.75	0.73	0.77	0.74	0.72	0.71
5	0.78	0.74	0.70	0.78	0.73	0.70	0.76	0.72	0.69	0.75	0.71	0.68	0.73	0.70	0.68	0.67
6	0.74	0.69	0.66	0.73	0.69	0.65	0.72	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.64	0.63
7	0.70	0.65	0.62	0.70	0.65	0.62	0.69	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.61	0.60
8	0.67	0.62	0.58	0.66	0.62	0.58	0.65	0.61	0.58	0.64	0.61	0.58	0.64	0.60	0.58	0.56
9	0.64	0.59	0.55	0.63	0.58	0.55	0.62	0.58	0.55	0.62	0.58	0.55	0.61	0.57	0.55	0.54
10	0.61	0.56	0.53	0.60	0.56	0.52	0.59	0.55	0.52	0.59	0.55	0.52	0.58	0.55	0.52	0.51





Luminaire Lumens:

FL=926.77,FM=195.5,FH=9.16,FVH=1.11

BL=953.18,BM=212.37,BH=9.22,BVH=1.14

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	3679.80	3675.33	3661.40	3636.90	3582.29	3526.00	3449.68	3385.08	3305.39
45.0	3684.79	3694.30	3688.73	3664.76	3634.64	3610.15	3529.36	3483.11	3412.36
90.0	3695.41	3682.58	3660.87	3633.54	3589.55	3542.19	3479.22	3408.47	3321.00
135.0	3684.79	3690.94	3684.26	3654.15	3644.16	3610.73	3575.04	3524.37	3459.72
180.0	3679.80	3679.22	3673.65	3665.29	3632.44	3616.83	3566.68	3520.43	3490.36
225.0	3684.79	3663.08	3647.47	3629.07	3592.86	3556.12	3505.39	3450.26	3380.03
270.0	3695.41	3688.15	3675.33	3659.19	3642.48	3611.83	3568.36	3530.47	3465.87
315.0	3684.79	3677.01	3671.44	3646.94	3624.08	3590.65	3540.50	3480.32	3404.00
360.0	3679.80	3675.33	3661.40	3636.90	3582.29	3526.00	3449.68	3385.08	3305.39
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3217.93	3129.89	3041.84	2935.98	2838.48	2737.61	2678.59	2551.54	2493.04
45.0	3341.03	3249.10	3144.34	3048.52	2944.92	2836.80	2727.63	2625.08	2516.43
90.0	3219.56	3118.74	3022.34	2920.95	2824.55	2724.84	2625.65	2525.89	2460.71
135.0	3390.07	3303.13	3215.67	3121.53	3024.03	2934.88	2833.49	2737.61	2648.47
180.0	3426.86	3355.54	3278.64	3183.92	3094.77	3002.84	2904.24	2808.94	2714.80
225.0	3302.61	3216.77	3138.77	3052.99	2952.12	2861.34	2781.08	2665.18	2591.12
270.0	3395.06	3329.36	3262.50	3182.82	3096.46	3006.21	2906.44	2810.04	2713.70
315.0	3330.99	3243.00	3163.84	3074.70	2985.55	2891.99	2794.49	2708.65	2603.89
360.0	3217.93	3129.89	3041.84	2935.98	2838.48	2737.61	2678.59	2551.54	2493.04
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2394.96	2250.67	2187.70	2081.32	1968.73	1864.02	1752.59	1643.37	1523.00
45.0	2412.25	2302.50	2198.32	2087.99	1974.88	1866.81	1759.27	1649.52	1584.29
90.0	2355.43	2210.57	2144.23	2031.70	1918.58	1801.05	1692.41	1572.04	1442.79
135.0	2542.61	2444.00	2332.04	2227.28	2122.53	2025.02	1909.70	1774.30	1677.37
180.0	2618.98	2515.90	2413.93	2314.17	2208.31	2097.45	1987.70	1876.80	1763.73
225.0	2489.68	2358.22	2279.11	2172.67	2064.60	1955.96	1852.30	1743.08	1633.91
270.0	2618.98	2525.37	2428.97	2324.79	2218.93	2107.49	1992.17	1880.74	1813.30
315.0	2539.29	2407.78	2350.96	2249.57	2085.21	2018.87	1906.34	1793.22	1676.80
360.0	2394.96	2250.67	2187.70	2081.32	1968.73	1864.02	1752.59	1643.37	1523.00
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1392.07	1070.17	1070.17	959.42	821.97	686.78	562.84	493.51	385.70
45.0	1469.54	1292.35	1215.46	1084.00	948.02	811.51	677.79	550.75	436.53
90.0	1253.93	1068.44	1040.11	898.56	761.16	654.14	509.33	402.05	324.68
135.0	1550.86	1409.94	1270.65	1128.57	987.02	847.73	709.54	581.97	467.18
180.0	1652.83	1535.30	1429.44	1288.99	1148.60	1012.67	874.48	740.19	608.73
225.0	1519.11	1403.79	1088.41	1060.76	1003.21	916.64	730.67	603.10	531.99
270.0	1656.72	1587.65	1469.54	1343.08	1207.68	1072.28	936.35	803.16	671.70
315.0	1549.75	1419.92	1097.77	1097.77	990.65	853.51	722.94	598.79	529.67
360.0	1392.07	1070.17	1070.17	959.42	821.97	686.78	562.84	493.51	385.70
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	258.45	215.19	161.73	128.25	108.33	93.46	81.73	72.06	63.81
45.0	337.40	301.18	214.35	133.72	111.49	101.87	84.21	78.21	69.12
90.0	241.26	176.98	134.77	110.22	94.77	82.89	73.01	64.60	57.61
135.0	363.57	306.75	306.75	142.65	121.84	100.60	81.37	75.11	66.02
180.0	488.94	383.08	288.88	288.88	154.74	119.47	100.03	90.93	78.79
225.0	421.13	322.89	239.16	175.61	135.19	111.43	95.24	82.68	72.43
270.0	551.91	443.79	345.18	292.25	292.25	146.39	119.90	105.86	91.35
315.0	423.29	290.62	243.47	180.55	138.19	115.22	97.61	83.94	73.06
360.0	258.45	215.19	161.73	128.25	108.33	93.46	81.73	72.06	63.81

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	56.93	50.99	45.57	40.89	36.90	33.69	30.80	28.33	26.91
45.0	61.55	55.09	49.30	43.99	39.53	35.85	32.75	29.96	27.49
90.0	51.51	46.04	41.26	37.21	33.85	31.01	28.65	26.33	24.39
135.0	58.55	52.30	46.73	41.73	37.37	33.85	30.96	28.54	26.33
180.0	65.18	60.39	53.46	47.46	42.10	37.32	33.53	30.33	27.81
225.0	63.65	56.29	49.88	44.52	39.26	35.01	31.43	28.70	26.65
270.0	80.00	70.22	61.97	55.19	49.25	43.89	39.21	35.27	31.91
315.0	64.34	56.98	50.99	45.52	40.79	36.69	33.48	30.54	28.07
360.0	56.93	50.99	45.57	40.89	36.90	33.69	30.80	28.33	26.91
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	24.07	22.29	21.29	19.24	18.45	17.19	16.03	14.98	14.03
45.0	25.28	23.39	21.55	19.97	18.55	17.24	16.08	14.98	14.40
90.0	22.60	20.92	19.55	18.71	17.03	16.29	15.24	14.24	13.30
135.0	24.39	22.71	21.24	19.76	18.61	17.66	16.40	15.40	14.61
180.0	25.39	23.39	21.71	20.08	18.76	17.50	16.35	15.35	14.40
225.0	24.39	21.97	20.71	19.24	17.87	16.66	15.66	14.61	13.67
270.0	29.07	26.39	24.13	21.97	20.18	18.71	17.40	16.24	15.19
315.0	25.97	24.02	22.92	21.29	19.34	18.50	17.29	16.24	15.19
360.0	24.07	22.29	21.29	19.24	18.45	17.19	16.03	14.98	14.03
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	13.19	12.30	11.51	10.83	10.20	9.51	8.83	8.30	7.67
45.0	13.14	12.62	11.77	11.09	10.35	9.67	9.04	8.46	7.83
90.0	12.46	11.67	10.88	10.25	9.62	8.88	8.30	7.67	7.10
135.0	13.77	12.98	12.19	11.41	10.67	10.09	9.41	8.73	8.04
180.0	13.61	12.88	12.25	11.35	10.83	10.25	9.51	9.15	8.52
225.0	12.88	12.19	11.46	10.72	10.14	9.57	8.99	8.41	7.83
270.0	14.24	13.77	12.93	11.83	11.41	10.72	10.09	9.51	8.94
315.0	14.19	13.35	12.56	11.77	11.09	10.35	9.78	9.04	8.36
360.0	13.19	12.30	11.51	10.83	10.20	9.51	8.83	8.30	7.67
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	7.10	6.57	6.15	5.62	5.10	4.73	4.26	3.84	3.42
45.0	7.31	6.78	6.36	5.78	5.26	4.78	4.36	3.89	3.42
90.0	6.62	6.04	5.62	5.15	4.68	4.36	3.94	3.31	3.10
135.0	7.52	6.99	6.47	5.94	5.52	5.05	4.57	4.10	3.68
180.0	7.94	7.52	6.94	6.47	5.99	5.52	5.05	4.57	4.10
225.0	7.41	6.83	6.36	6.04	5.41	5.10	4.68	4.05	3.73
270.0	8.41	7.73	7.25	6.73	6.25	5.73	5.20	4.84	4.36
315.0	7.73	7.31	6.78	6.36	5.73	5.41	4.89	4.36	4.05
360.0	7.10	6.57	6.15	5.62	5.10	4.73	4.26	3.84	3.42
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	2.94	2.68	2.37	2.05	1.79	1.52	1.42	1.16	0.89
45.0	3.05	2.68	2.21	1.89	1.68	1.42	1.21	1.00	0.79
90.0	2.63	2.31	2.05	1.79	1.47	1.26	1.10	0.84	0.68
135.0	3.26	2.89	2.47	2.26	1.94	1.68	1.42	1.26	0.95
180.0	3.73	3.31	2.94	2.42	2.16	1.89	1.68	1.42	1.16
225.0	3.31	2.84	2.52	2.21	1.94	1.68	1.37	1.16	0.95
270.0	3.89	3.47	3.00	2.73	2.26	2.00	1.73	1.42	1.26
315.0	3.57	3.21	2.89	2.47	2.16	1.89	1.68	1.42	1.26
360.0	2.94	2.68	2.37	2.05	1.79	1.52	1.42	1.16	0.89

Intensity data(cd)

C/γ(°)	90.0
0.0	0.84
45.0	0.79
90.0	0.68
135.0	0.68
180.0	1.00
225.0	0.84
270.0	1.05
315.0	1.10
360.0	0.84