



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: 2-2521-L

Luminaire: 92.70.411.00

Report No: 2024906-B018

Ballast type: AC

Test No: 2024906-C018

Voltage(V): 34.170

LampCAT: NICHIA NFCWJ108B-V3

Current(A): 0.563

Lamp flux(lm): 2557.0

Power (W): 19.230

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2315.64, Efficiency(%): 90.56% , Luminous Efficacy(lm/W): 120.42

Central intensity(cd): 3886.642, Maximum intensity(cd): 3886.642

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=48.0

[C90/270]Total=48.0

Field angle(10%Imax): [C0/180]Total=70.6

[C90/270]Total=70.6

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

Maximum s/h(1/4): C0_180=0.74 C90_270=0.74

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 90.56%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 99.226%

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	3886.642	0.000	0	0.00%	0.00%
1.0	3877.930	3.715	3.715	0.15%	0.16%
2.0	3851.333	11.094	14.809	0.43%	0.64%
3.0	3809.960	18.323	33.132	0.72%	1.43%
4.0	3766.018	25.359	58.491	0.99%	2.53%
5.0	3704.099	32.136	90.628	1.26%	3.91%
6.0	3644.559	38.619	129.247	1.51%	5.58%
7.0	3575.807	44.817	174.063	1.75%	7.52%
8.0	3503.041	50.662	224.725	1.98%	9.70%
9.0	3431.517	56.201	280.926	2.20%	12.13%
10.0	3359.565	61.457	342.383	2.40%	14.79%
11.0	3286.221	66.405	408.788	2.60%	17.65%
12.0	3210.320	71.016	479.805	2.78%	20.72%
13.0	3130.642	75.251	555.056	2.94%	23.97%
14.0	3046.516	79.067	634.123	3.09%	27.38%
15.0	2957.160	82.421	716.544	3.22%	30.94%
16.0	2865.077	85.312	801.856	3.34%	34.63%
17.0	2764.380	87.666	889.522	3.43%	38.41%
18.0	2666.739	89.547	979.069	3.50%	42.28%
19.0	2558.854	90.915	1069.984	3.56%	46.21%
20.0	2434.886	91.399	1161.383	3.57%	50.15%
21.0	2318.722	91.279	1252.662	3.57%	54.10%
22.0	2195.174	90.709	1343.371	3.55%	58.01%
23.0	2075.588	89.612	1432.983	3.50%	61.88%
24.0	1938.039	87.752	1520.735	3.43%	65.67%
25.0	1781.586	84.576	1605.311	3.31%	69.32%
26.0	1638.544	80.733	1686.044	3.16%	72.81%
27.0	1479.792	76.291	1762.335	2.98%	76.11%
28.0	1340.337	71.400	1833.734	2.79%	79.19%
29.0	1185.225	66.076	1899.81	2.58%	82.04%
30.0	977.925	58.405	1958.215	2.28%	84.56%
31.0	871.026	51.454	2009.668	2.01%	86.79%
32.0	736.138	46.043	2055.712	1.80%	88.78%
33.0	608.615	39.617	2095.329	1.55%	90.49%
34.0	494.948	33.397	2128.726	1.31%	91.93%
35.0	411.440	28.149	2156.875	1.10%	93.14%
36.0	333.233	23.711	2180.585	0.93%	94.17%
37.0	250.631	19.042	2199.628	0.74%	94.99%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	204.067	15.177	2214.805	0.59%	95.65%
39.0	167.793	12.693	2227.497	0.50%	96.19%
40.0	132.661	10.479	2237.976	0.41%	96.65%
41.0	109.567	8.626	2246.602	0.34%	97.02%
42.0	80.946	6.922	2253.523	0.27%	97.32%
43.0	66.235	5.452	2258.975	0.21%	97.55%
44.0	54.770	4.567	2263.543	0.18%	97.75%
45.0	47.155	3.917	2267.46	0.15%	97.92%
46.0	40.854	3.442	2270.902	0.13%	98.07%
47.0	35.966	3.055	2273.957	0.12%	98.20%
48.0	32.116	2.752	2276.709	0.11%	98.32%
49.0	28.916	2.506	2279.215	0.10%	98.43%
50.0	26.196	2.298	2281.513	0.09%	98.53%
51.0	23.923	2.120	2283.634	0.08%	98.62%
52.0	22.004	1.971	2285.604	0.08%	98.70%
53.0	20.355	1.843	2287.447	0.07%	98.78%
54.0	18.942	1.732	2289.179	0.07%	98.86%
55.0	17.510	1.627	2290.806	0.06%	98.93%
56.0	16.301	1.528	2292.334	0.06%	98.99%
57.0	15.394	1.449	2293.783	0.06%	99.06%
58.0	14.369	1.376	2295.16	0.05%	99.12%
59.0	13.555	1.305	2296.465	0.05%	99.17%
60.0	12.766	1.243	2297.708	0.05%	99.23%
61.0	12.043	1.184	2298.892	0.05%	99.28%
62.0	11.465	1.133	2300.025	0.04%	99.33%
63.0	10.926	1.089	2301.114	0.04%	99.37%
64.0	10.302	1.042	2302.156	0.04%	99.42%
65.0	9.763	0.993	2303.149	0.04%	99.46%
66.0	9.304	0.951	2304.1	0.04%	99.50%
67.0	8.824	0.912	2305.012	0.04%	99.54%
68.0	8.344	0.870	2305.881	0.03%	99.58%
69.0	7.898	0.829	2306.71	0.03%	99.61%
70.0	7.477	0.790	2307.5	0.03%	99.65%
71.0	7.083	0.753	2308.252	0.03%	99.68%
72.0	6.662	0.715	2308.967	0.03%	99.71%
73.0	6.262	0.676	2309.643	0.03%	99.74%
74.0	5.854	0.637	2310.28	0.02%	99.77%
75.0	5.473	0.598	2310.878	0.02%	99.79%

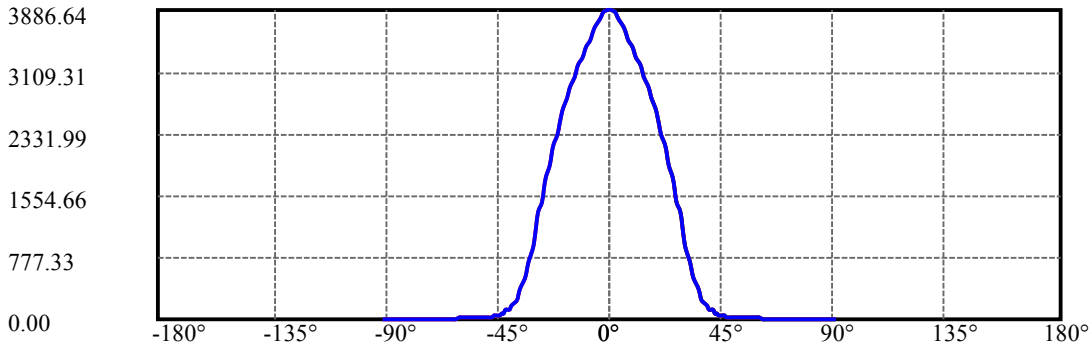
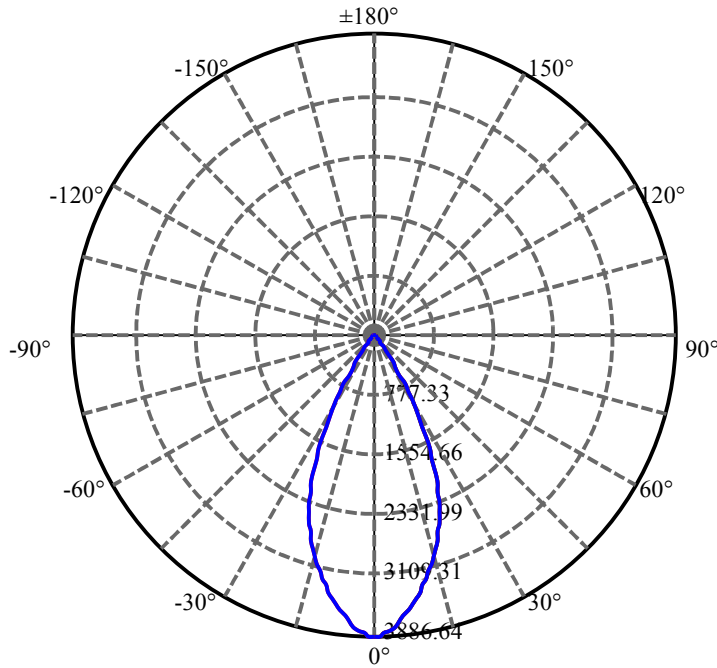
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	5.138	0.563	2311.441	0.02%	99.82%
77.0	4.685	0.524	2311.965	0.02%	99.84%
78.0	4.369	0.485	2312.45	0.02%	99.86%
79.0	3.995	0.449	2312.899	0.02%	99.88%
80.0	3.627	0.411	2313.31	0.02%	99.90%
81.0	3.279	0.373	2313.683	0.01%	99.92%
82.0	2.930	0.337	2314.02	0.01%	99.93%
83.0	2.595	0.300	2314.321	0.01%	99.94%
84.0	2.319	0.268	2314.588	0.01%	99.95%
85.0	2.011	0.236	2314.825	0.01%	99.96%
86.0	1.748	0.205	2315.03	0.01%	99.97%
87.0	1.557	0.181	2315.211	0.01%	99.98%
88.0	1.360	0.160	2315.371	0.01%	99.99%
89.0	1.202	0.140	2315.511	0.01%	99.99%
90.0	1.091	0.126	2315.637	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1958.21	76.58%	84.56%
0-40	2237.98	87.52%	96.65%
0-60	2297.71	89.86%	99.23%
0-90	2315.51	90.56%	99.99%
0-120	2315.51	90.56%	99.99%
0-180	2315.64	90.56%	100.00%
60-90	17.80	0.70%	0.77%
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%
0-28.28	1852.51	72.45%	80.00%

ZONAL LUMEN SUMMARY

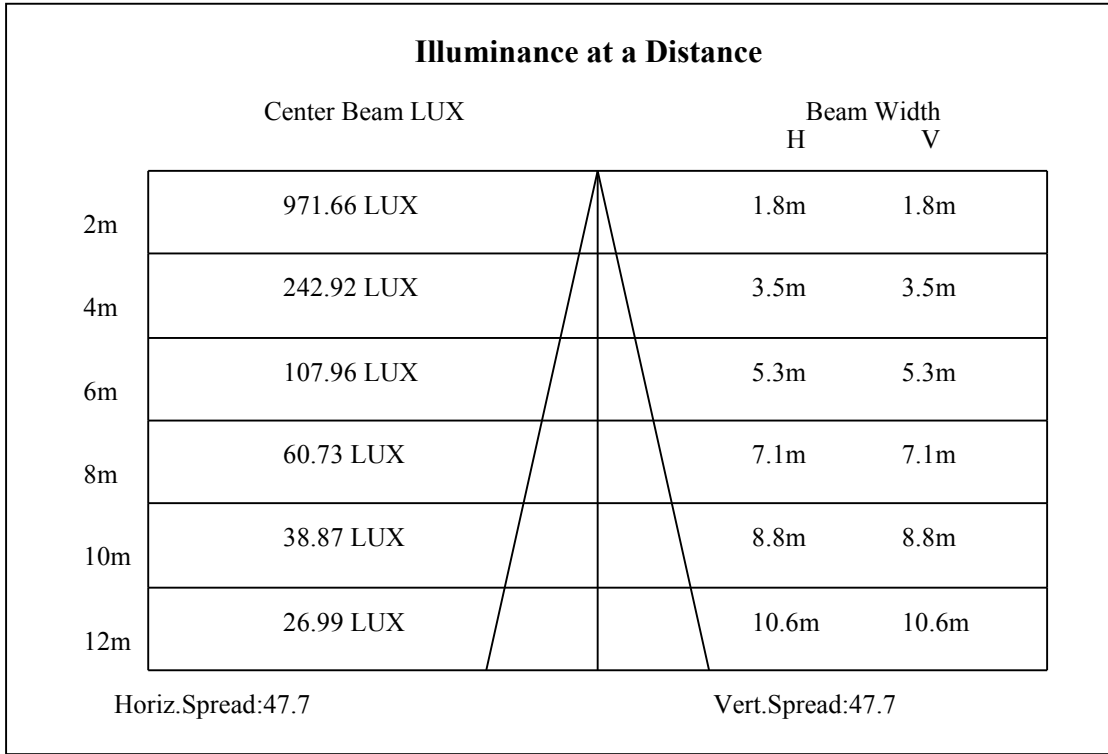
0-10	342.38
10-20	819.00
20-30	796.83
30-40	279.76
40-50	43.54
50-60	16.20
60-70	9.79
70-80	5.81
80-90	2.20
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

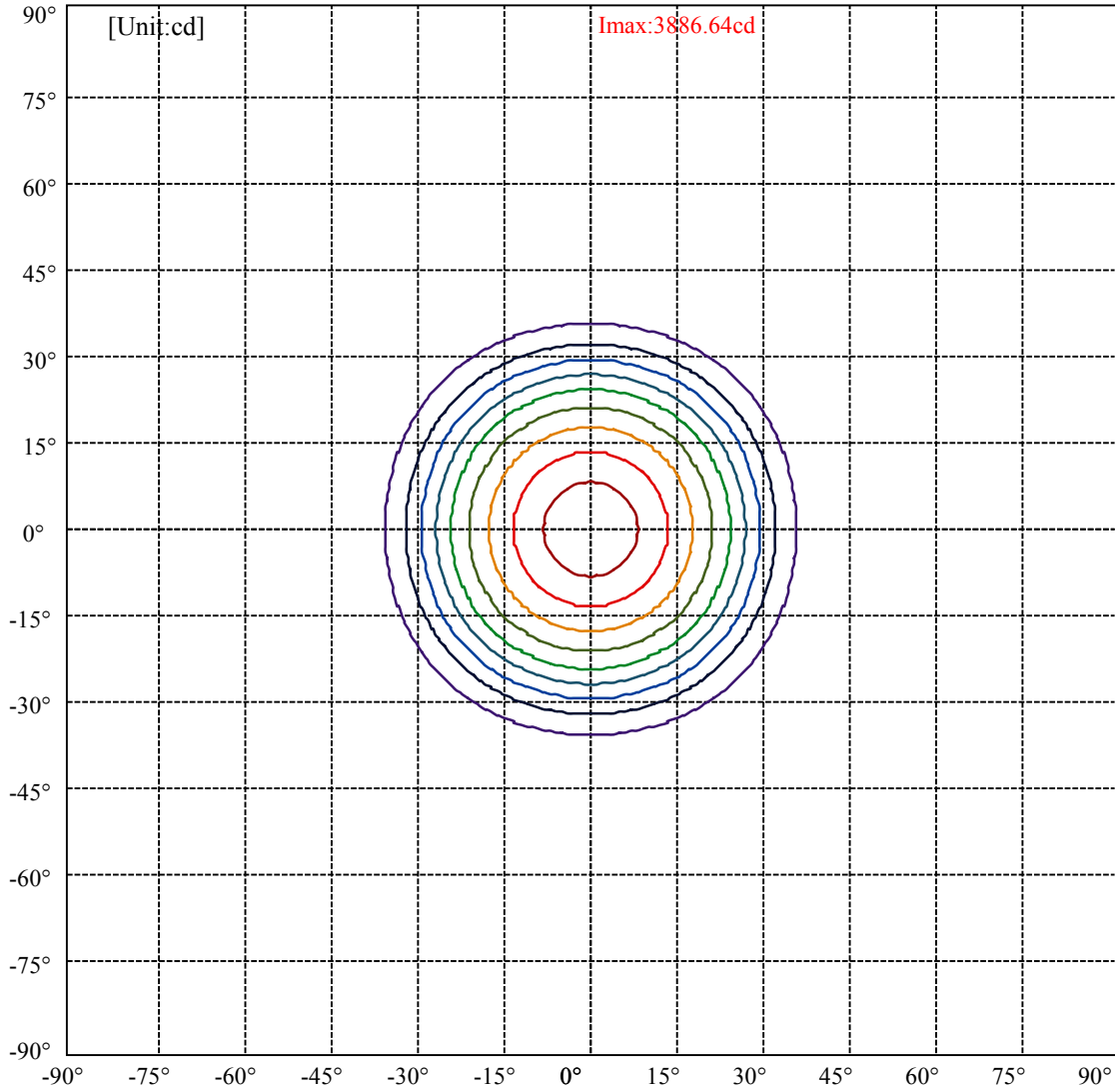


C0(Max): —————
C0/C180: —————
C90/C270: —————

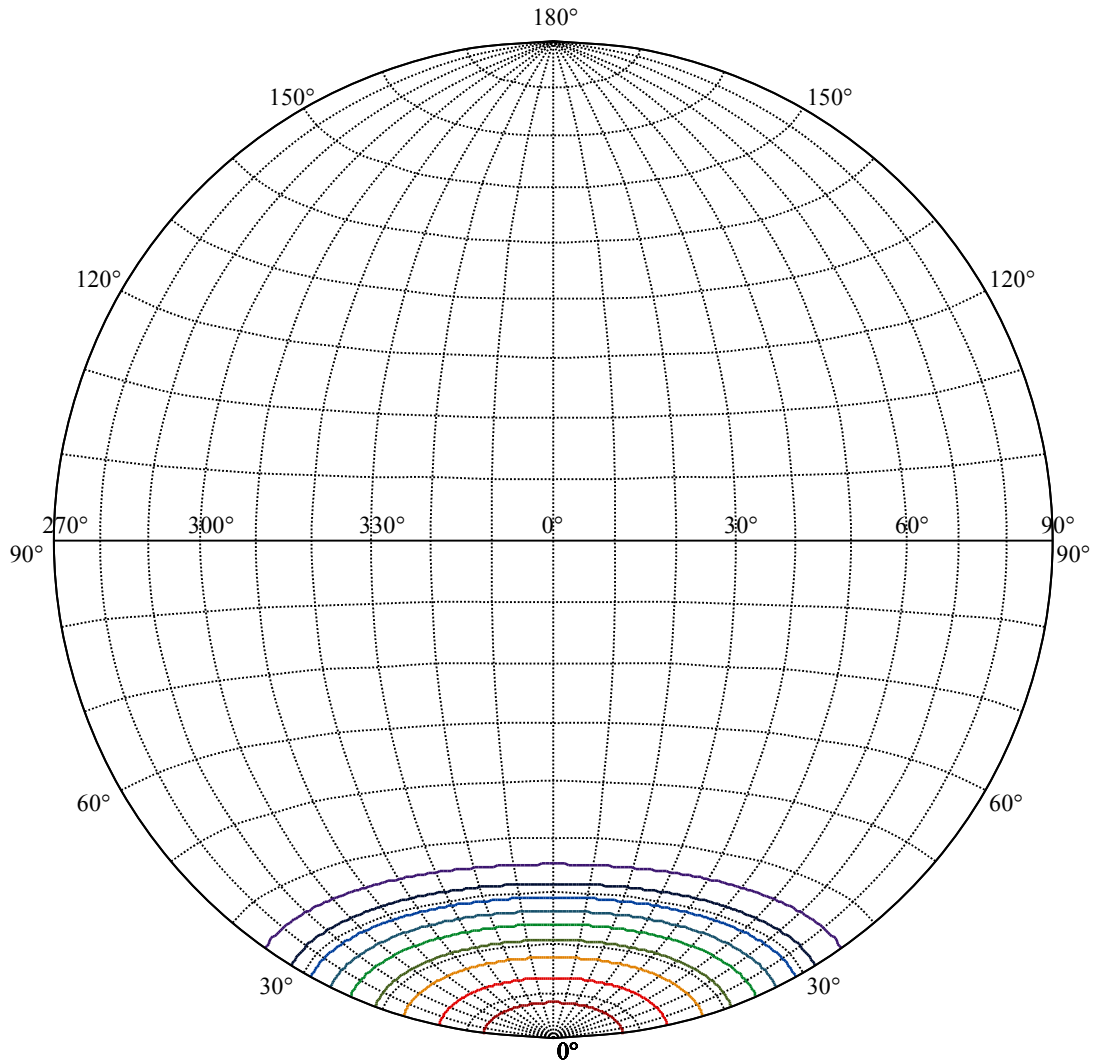
Field angle(10%Imax):C0/180Left:35.3 Right:35.3
:C90/270Left:35.3 Right:35.3

Beam Angle(50%Imax):C0/180Left:24.0 Right:24.0
:C90/270Left:24.0 Right:24.0





(10%I _{max}) 388.664	—
(20%I _{max}) 777.328	—
(30%I _{max}) 1165.99	—
(40%I _{max}) 1554.66	—
(50%I _{max}) 1943.32	—
(60%I _{max}) 2331.99	—
(70%I _{max}) 2720.65	—
(80%I _{max}) 3109.31	—
(90%I _{max}) 3497.98	—



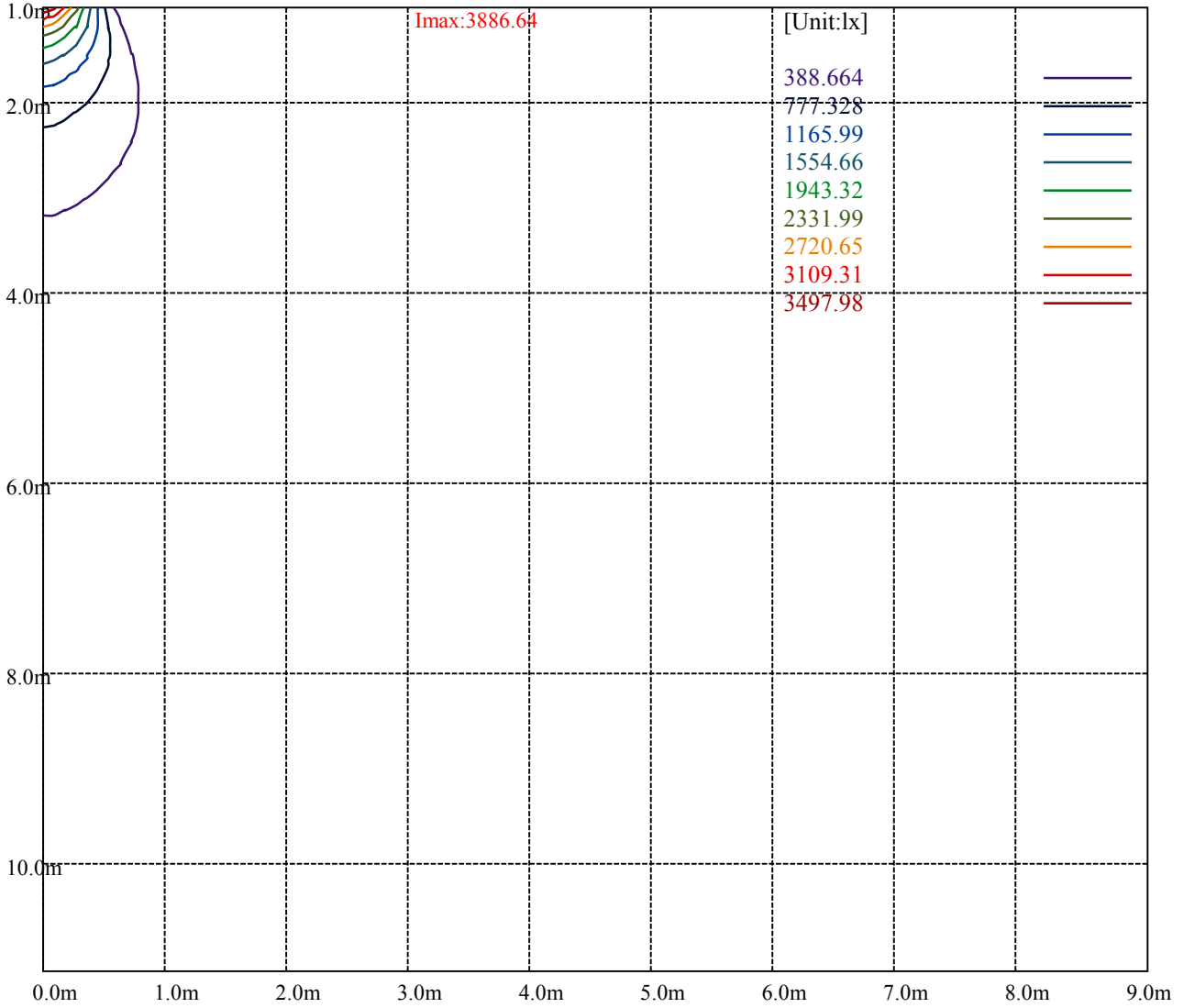
House

[Unit:cd]

Road

Imax:3886.64

(10%Imax)	388.664	—
(20%Imax)	777.328	—
(30%Imax)	1165.99	—
(40%Imax)	1554.66	—
(50%Imax)	1943.32	—
(60%Imax)	2331.99	—
(70%Imax)	2720.65	—
(80%Imax)	3109.31	—
(90%Imax)	3497.98	—



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

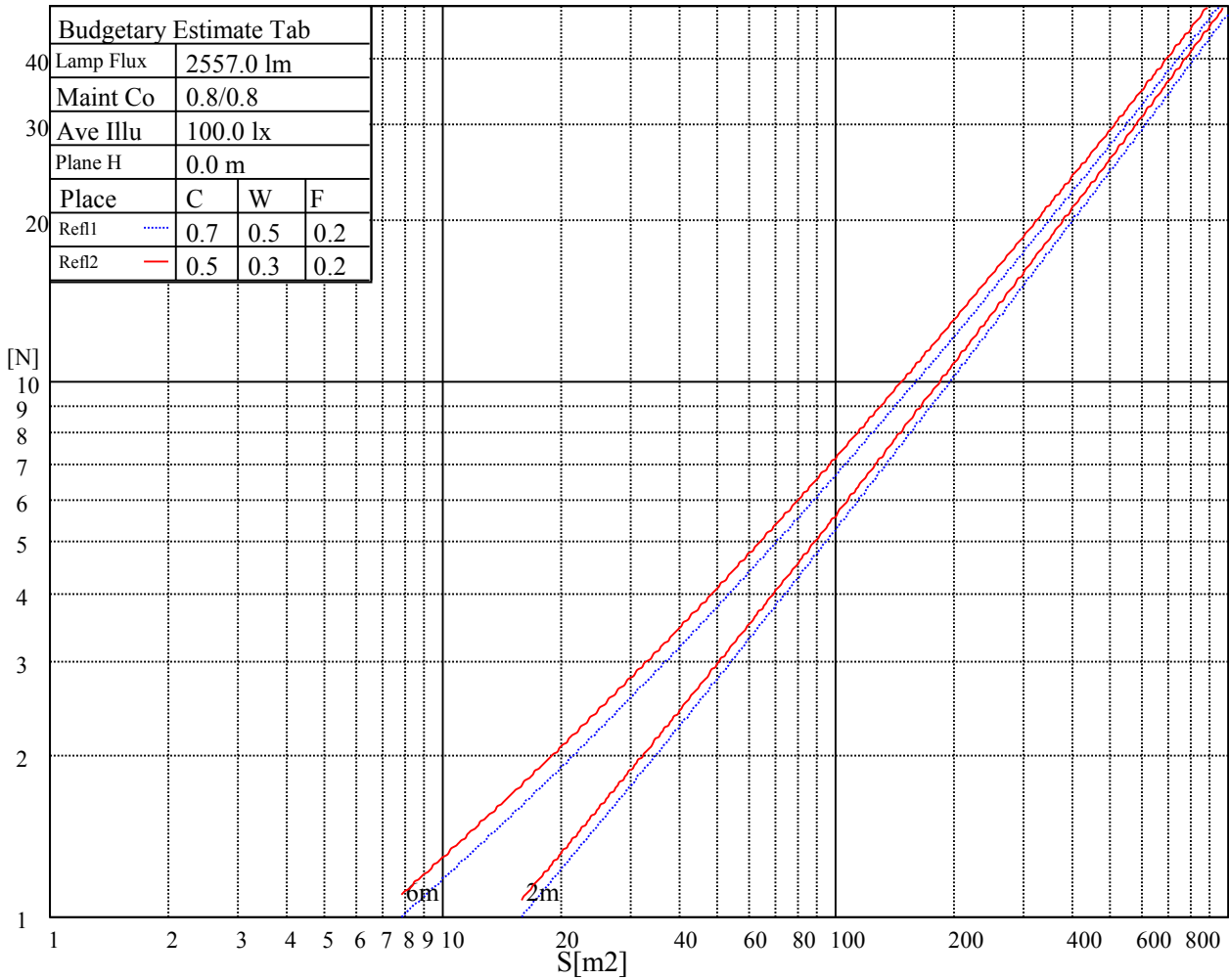
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

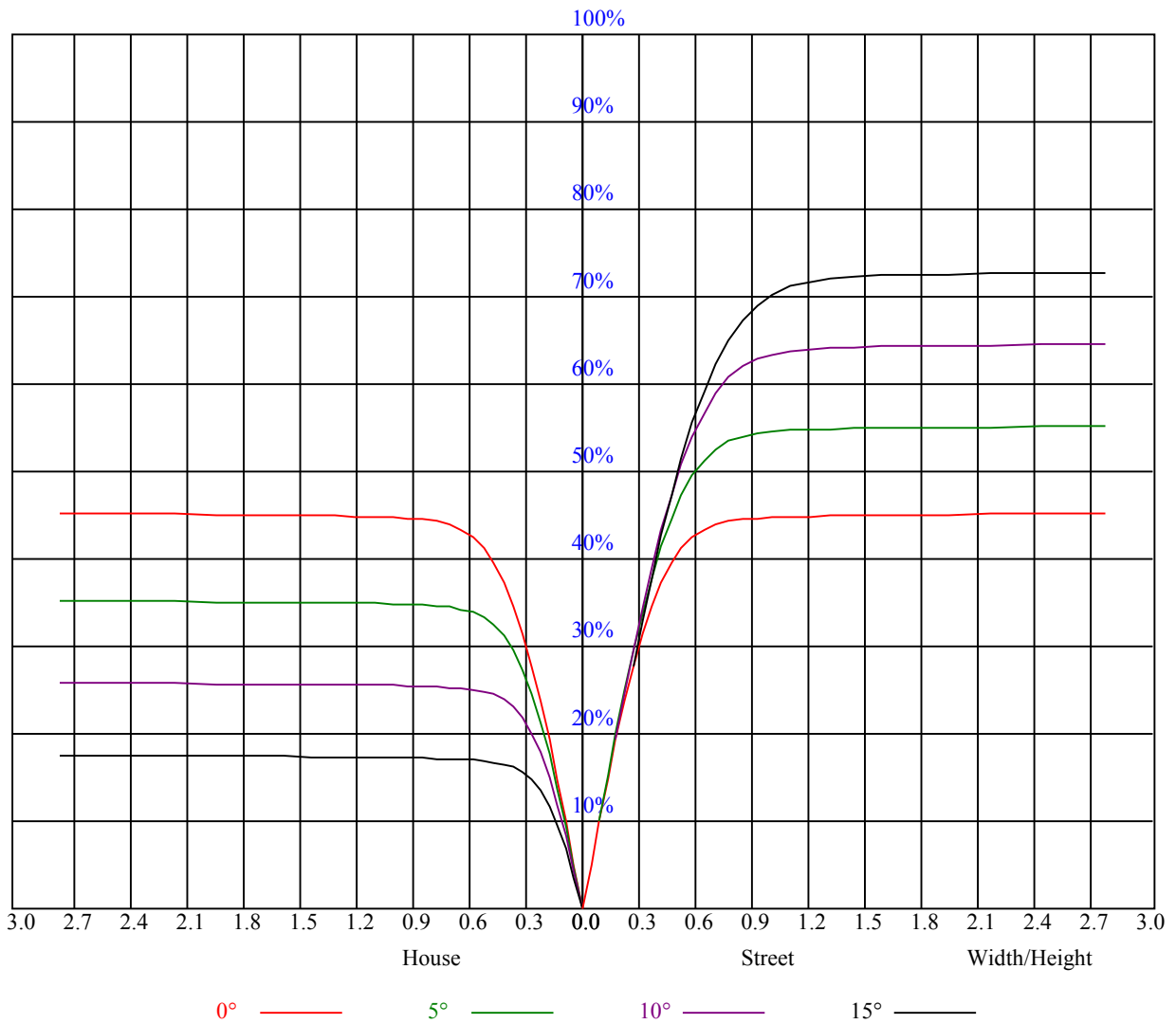


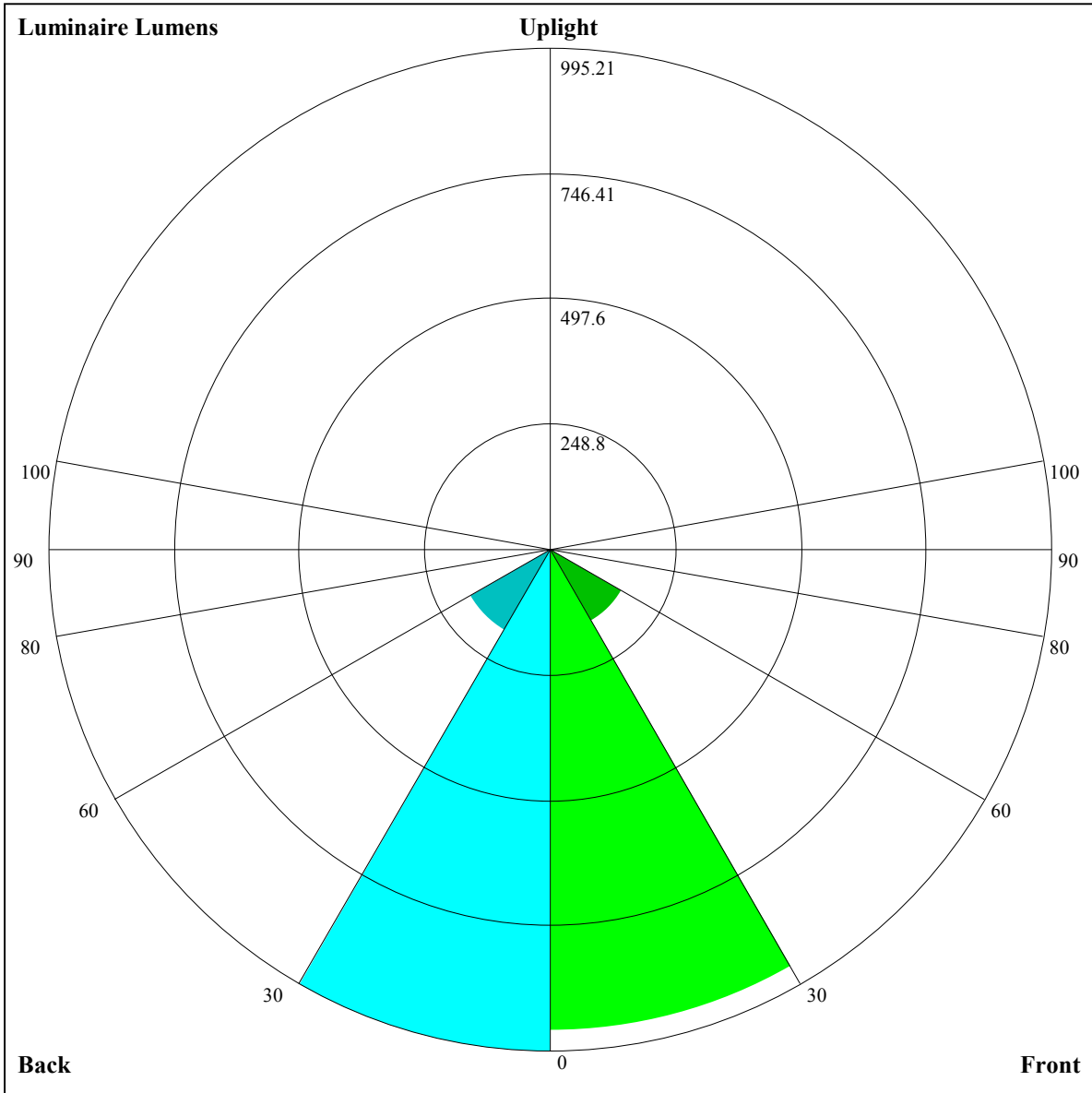
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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	1.08	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	0.90	0.89	0.88	0.87	0.86
2	0.95	0.91	0.88	0.93	0.90	0.87	0.90	0.88	0.86	0.88	0.86	0.84	0.85	0.83	0.82	0.81
3	0.89	0.85	0.82	0.88	0.84	0.81	0.85	0.82	0.80	0.83	0.81	0.79	0.81	0.79	0.77	0.76
4	0.84	0.80	0.76	0.83	0.79	0.76	0.81	0.78	0.75	0.79	0.76	0.74	0.78	0.75	0.73	0.72
5	0.79	0.75	0.71	0.79	0.74	0.71	0.77	0.73	0.70	0.76	0.72	0.70	0.74	0.71	0.69	0.68
6	0.75	0.70	0.67	0.75	0.70	0.67	0.73	0.69	0.66	0.72	0.69	0.66	0.71	0.68	0.65	0.64
7	0.72	0.67	0.63	0.71	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.62	0.68	0.65	0.62	0.61
8	0.68	0.63	0.60	0.68	0.63	0.60	0.67	0.62	0.59	0.66	0.62	0.59	0.65	0.62	0.59	0.58
9	0.65	0.60	0.57	0.64	0.60	0.57	0.64	0.59	0.56	0.63	0.59	0.56	0.62	0.59	0.56	0.55
10	0.62	0.57	0.54	0.62	0.57	0.54	0.61	0.57	0.54	0.60	0.56	0.54	0.60	0.56	0.53	0.52





Luminaire Lumens:

FL=954.61,FM=165.21,FH=7.59,FVH=1.15

BL=995.21,BM=186.3,BH=7.93,BVH=1.19

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	3884.84	3865.87	3797.38	3745.55	3690.36	3605.68	3541.61	3478.64	3410.15
45.0	3897.67	3885.95	3853.62	3791.23	3728.84	3677.59	3615.72	3551.65	3490.94
90.0	3861.98	3804.58	3743.87	3682.58	3640.79	3583.97	3521.00	3453.57	3384.50
135.0	3902.08	3884.26	3849.73	3782.29	3737.19	3665.29	3601.21	3545.50	3475.85
180.0	3884.84	3888.15	3882.58	3850.31	3806.84	3760.58	3699.87	3628.55	3554.43
225.0	3897.67	3903.24	3885.95	3849.15	3821.29	3734.41	3699.87	3625.18	3548.86
270.0	3861.98	3888.73	3908.23	3919.38	3893.20	3860.30	3805.74	3733.30	3651.94
315.0	3902.08	3902.66	3889.31	3859.19	3809.62	3744.97	3671.44	3590.07	3507.65
360.0	3884.84	3865.87	3797.38	3745.55	3690.36	3605.68	3541.61	3478.64	3410.15
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3329.36	3235.75	3158.27	3083.63	3003.42	2916.48	2821.77	2711.44	2613.41
45.0	3412.94	3330.47	3258.03	3180.03	3086.42	2990.02	2884.16	2788.91	2649.04
90.0	3316.54	3242.42	3161.06	3079.16	2985.55	2894.77	2786.65	2665.18	2538.19
135.0	3405.10	3344.39	3278.06	3207.89	3132.09	3035.17	2942.13	2846.26	2748.23
180.0	3494.25	3431.28	3362.21	3290.89	3218.45	3146.60	3068.60	2990.60	2907.55
225.0	3473.65	3409.57	3335.46	3251.36	3171.67	3090.89	3013.41	2933.20	2844.05
270.0	3572.83	3498.72	3427.97	3357.75	3294.25	3218.45	3134.35	3057.98	2978.87
315.0	3447.47	3383.92	3308.70	3231.86	3153.28	3079.74	3006.21	2927.05	2835.69
360.0	3329.36	3235.75	3158.27	3083.63	3003.42	2916.48	2821.77	2711.44	2613.41
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2501.98	2379.92	2252.88	2126.99	1992.17	1850.09	1697.40	1602.68	1374.82
45.0	2522.00	2415.61	2270.17	2125.89	1975.46	1814.40	1652.30	1485.68	1320.21
90.0	2389.96	2241.74	2087.41	1930.88	1769.83	1602.16	1437.22	1061.55	1061.55
135.0	2622.29	2493.62	2361.00	2223.92	2075.75	1984.92	1827.23	1664.55	1499.61
180.0	2822.87	2764.95	2610.04	2498.03	2430.65	2311.38	2188.28	2046.73	1899.08
225.0	2763.84	2675.80	2579.98	2473.54	2363.79	2252.36	2139.24	2067.91	1880.74
270.0	2933.78	2845.16	2723.16	2676.90	2595.54	2498.61	2389.39	2279.64	2164.89
315.0	2777.19	2654.04	2594.43	2493.62	2358.22	2290.78	2173.25	2043.95	1907.44
360.0	2501.98	2379.92	2252.88	2126.99	1992.17	1850.09	1697.40	1602.68	1374.82
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1053.19	1053.19	951.85	789.96	644.42	518.11	411.04	322.68	250.83
45.0	1154.75	988.12	829.33	686.15	558.00	446.05	352.43	275.53	275.53
90.0	956.64	792.75	649.94	525.94	420.76	331.93	258.03	198.37	152.01
135.0	1329.67	1152.49	976.98	812.62	668.33	542.39	434.32	343.50	296.14
180.0	1747.02	1584.86	1413.83	1232.75	1060.03	893.40	741.87	605.94	490.04
225.0	1791.59	1634.43	1453.93	1061.08	1061.08	932.77	776.61	635.43	513.27
270.0	2042.32	1912.49	1764.84	1606.57	1447.26	1284.57	1113.48	945.23	784.76
315.0	1763.16	1604.37	1441.11	1108.33	1108.33	939.87	781.13	632.91	528.94
360.0	1053.19	1053.19	951.85	789.96	644.42	518.11	411.04	322.68	250.83
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	194.43	149.22	115.27	94.98	72.59	59.87	52.35	44.15	39.95
45.0	216.61	142.44	111.43	88.41	71.33	59.08	50.35	43.94	39.00
90.0	117.85	92.25	73.38	59.97	54.09	44.26	41.10	36.85	33.43
135.0	296.14	159.32	130.04	96.77	80.53	65.39	53.56	48.15	42.63
180.0	393.11	312.33	284.47	284.47	153.38	118.27	92.19	73.64	61.18
225.0	410.83	326.41	258.40	202.58	158.37	123.47	106.81	84.57	63.08
270.0	639.37	511.75	403.68	316.74	316.74	286.10	156.64	122.52	96.40
315.0	397.53	311.33	255.87	198.42	154.27	120.11	94.56	76.06	62.50
360.0	194.43	149.22	115.27	94.98	72.59	59.87	52.35	44.15	39.95

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	35.69	32.12	29.01	26.44	24.23	22.29	20.55	19.08	17.77
45.0	34.90	31.33	28.38	25.91	23.76	21.87	20.34	19.13	17.61
90.0	30.54	28.02	25.76	23.81	22.13	20.60	19.13	17.82	16.71
135.0	38.11	34.11	31.01	28.44	26.23	24.28	22.55	21.03	19.61
180.0	52.30	45.83	40.84	36.64	33.32	30.38	27.91	25.60	23.71
225.0	56.29	47.41	40.37	35.11	30.91	27.60	24.81	22.60	20.81
270.0	76.90	63.02	52.98	45.41	39.42	34.48	30.59	27.44	25.07
315.0	52.51	44.99	39.37	35.16	31.33	28.07	25.49	23.34	21.55
360.0	35.69	32.12	29.01	26.44	24.23	22.29	20.55	19.08	17.77
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	16.56	15.45	14.51	13.61	12.83	12.09	11.46	10.88	10.46
45.0	16.35	15.66	14.56	13.93	13.09	12.19	11.51	10.99	10.46
90.0	15.66	14.61	13.77	12.93	12.14	11.35	10.62	10.20	9.51
135.0	18.40	17.24	16.24	15.30	14.40	13.98	12.98	12.19	11.77
180.0	22.02	20.45	18.92	17.66	16.93	15.40	14.82	13.93	13.09
225.0	19.13	17.77	16.61	15.61	14.56	13.61	12.88	12.19	11.56
270.0	23.55	20.45	18.66	17.77	16.08	15.45	14.40	13.56	12.88
315.0	19.87	18.45	17.14	16.35	14.93	14.35	13.46	12.40	11.98
360.0	16.56	15.45	14.51	13.61	12.83	12.09	11.46	10.88	10.46
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	10.25	9.57	9.20	8.88	8.52	7.99	7.57	7.15	6.78
45.0	9.93	9.46	8.99	8.52	7.94	7.52	6.94	6.52	6.10
90.0	9.04	8.52	7.94	7.52	7.04	6.57	6.15	5.78	5.52
135.0	11.14	10.41	9.83	9.25	8.62	7.94	7.46	6.94	6.47
180.0	12.25	11.62	11.04	10.35	9.72	9.25	8.67	8.09	7.62
225.0	11.25	10.67	10.04	9.72	9.36	8.88	8.52	8.20	7.73
270.0	12.14	11.41	10.72	10.25	9.78	9.41	9.15	8.78	8.46
315.0	11.41	10.78	10.35	9.93	9.62	9.20	8.73	8.36	7.99
360.0	10.25	9.57	9.20	8.88	8.52	7.99	7.57	7.15	6.78
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	6.36	5.94	5.57	5.15	4.84	4.36	3.99	3.68	3.31
45.0	5.78	5.41	4.94	4.63	4.36	3.99	3.63	3.31	2.89
90.0	5.05	4.68	4.31	3.99	3.63	3.21	2.94	2.63	2.26
135.0	6.04	5.73	5.26	4.89	4.57	4.21	3.84	3.42	3.21
180.0	7.15	6.73	6.25	5.89	5.68	5.15	4.78	4.52	4.05
225.0	7.36	6.89	6.52	6.10	5.73	5.26	4.94	4.57	4.10
270.0	8.04	7.67	7.31	6.89	6.47	5.99	5.68	5.20	4.84
315.0	7.52	7.04	6.68	6.25	5.83	5.31	5.15	4.63	4.36
360.0	6.36	5.94	5.57	5.15	4.84	4.36	3.99	3.68	3.31
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	2.26	2.10	1.84	1.58	1.52	1.31	1.10
45.0	2.52	2.16	1.89	1.58	1.42	1.16	1.05	0.95	0.89
90.0	2.00	1.84	1.52	1.37	1.16	1.00	0.84	0.89	0.84
135.0	2.79	2.42	2.16	1.84	1.52	1.37	1.21	1.00	0.79
180.0	3.84	3.31	2.89	2.68	2.26	1.94	1.68	1.42	1.31
225.0	3.78	3.42	3.05	2.73	2.42	2.10	1.84	1.52	1.37
270.0	4.52	4.05	3.73	3.31	2.94	2.63	2.31	2.00	1.79
315.0	3.84	3.57	3.26	2.94	2.52	2.21	2.00	1.79	1.52
360.0	2.94	2.68	2.26	2.10	1.84	1.58	1.52	1.31	1.10

Intensity data(cd)

C/ γ (°)	90.0
0.0	1.10
45.0	0.89
90.0	0.84
135.0	0.79
180.0	1.10
225.0	1.16
270.0	1.42
315.0	1.42
360.0	1.10