



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

NATA

Client:

LumCAT: 2-2644-L

Luminaire: 92.70.411.00

Report No: 20231016-B003

Ballast type: AC

Test No: 20231016-C003

Voltage(V): 34.240

LampCAT: NICHIA NFCWJ108B-V3

Current(A): 0.576

Lamp flux(lm): 2574.8

Power (W): 19.722

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2328.65, Efficiency(%): 90.44% , Luminous Efficacy(lm/W): 118.07

Central intensity(cd): 8026.133, Maximum intensity(cd): 8026.133

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=25.4

[C90/270]Total=25.4

Field angle(10%Imax): [C0/180]Total=56.4

[C90/270]Total=56.4

Maximum s/h(1/2): C0_180=0.42 C90_270=0.42

Maximum s/h(1/4): C0_180=0.47 C90_270=0.47

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 90.44%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.998%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	8026.134	0.000	0	0.00%	0.00%
1.0	7981.712	7.659	7.659	0.30%	0.33%
2.0	7859.934	22.737	30.397	0.88%	1.31%
3.0	7657.340	37.112	67.509	1.44%	2.90%
4.0	7384.239	50.349	117.858	1.96%	5.06%
5.0	7103.320	62.325	180.183	2.42%	7.74%
6.0	6764.072	72.877	253.06	2.83%	10.87%
7.0	6397.492	81.694	334.753	3.17%	14.38%
8.0	5974.591	88.545	423.298	3.44%	18.18%
9.0	5575.907	93.611	516.908	3.64%	22.20%
10.0	5115.434	96.753	613.661	3.76%	26.35%
11.0	4712.321	98.199	711.861	3.81%	30.57%
12.0	4281.532	98.316	810.176	3.82%	34.79%
13.0	3870.600	96.745	906.921	3.76%	38.95%
14.0	3520.973	94.611	1001.533	3.67%	43.01%
15.0	3203.244	92.313	1093.846	3.59%	46.97%
16.0	2907.794	89.544	1183.39	3.48%	50.82%
17.0	2623.761	86.141	1269.531	3.35%	54.52%
18.0	2393.213	82.719	1352.25	3.21%	58.07%
19.0	2178.510	79.539	1431.789	3.09%	61.49%
20.0	1981.036	76.131	1507.92	2.96%	64.76%
21.0	1786.191	72.338	1580.258	2.81%	67.86%
22.0	1615.080	68.350	1648.608	2.65%	70.80%
23.0	1412.589	63.529	1712.137	2.47%	73.52%
24.0	1264.844	58.538	1770.675	2.27%	76.04%
25.0	1160.647	55.150	1825.826	2.14%	78.41%
26.0	1056.901	52.345	1878.171	2.03%	80.66%
27.0	933.303	48.691	1926.862	1.89%	82.75%
28.0	821.323	44.423	1971.285	1.73%	84.65%
29.0	709.010	40.038	2011.323	1.56%	86.37%
30.0	603.652	35.442	2046.765	1.38%	87.90%
31.0	515.224	31.137	2077.901	1.21%	89.23%
32.0	436.055	27.253	2105.154	1.06%	90.40%
33.0	365.348	23.610	2128.764	0.92%	91.42%
34.0	294.343	19.964	2148.728	0.78%	92.27%
35.0	251.637	16.956	2165.684	0.66%	93.00%
36.0	222.521	15.097	2180.782	0.59%	93.65%
37.0	169.417	12.783	2193.564	0.50%	94.20%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	128.199	9.934	2203.498	0.39%	94.63%
39.0	105.359	7.972	2211.47	0.31%	94.97%
40.0	88.856	6.774	2218.244	0.26%	95.26%
41.0	74.624	5.821	2224.065	0.23%	95.51%
42.0	65.525	5.092	2229.157	0.20%	95.73%
43.0	57.492	4.557	2233.714	0.18%	95.92%
44.0	51.894	4.129	2237.843	0.16%	96.10%
45.0	47.203	3.808	2241.651	0.15%	96.26%
46.0	43.231	3.537	2245.188	0.14%	96.42%
47.0	39.868	3.305	2248.493	0.13%	96.56%
48.0	37.122	3.112	2251.605	0.12%	96.69%
49.0	34.900	2.958	2254.563	0.11%	96.82%
50.0	32.901	2.827	2257.39	0.11%	96.94%
51.0	31.247	2.714	2260.104	0.11%	97.06%
52.0	29.967	2.627	2262.73	0.10%	97.17%
53.0	28.943	2.563	2265.293	0.10%	97.28%
54.0	28.050	2.512	2267.805	0.10%	97.39%
55.0	27.255	2.469	2270.274	0.10%	97.49%
56.0	26.521	2.430	2272.704	0.09%	97.60%
57.0	25.836	2.394	2275.098	0.09%	97.70%
58.0	25.137	2.357	2277.455	0.09%	97.80%
59.0	24.390	2.315	2279.77	0.09%	97.90%
60.0	23.567	2.266	2282.036	0.09%	98.00%
61.0	22.771	2.211	2284.247	0.09%	98.09%
62.0	22.003	2.157	2286.405	0.08%	98.19%
63.0	21.221	2.102	2288.507	0.08%	98.28%
64.0	20.495	2.047	2290.554	0.08%	98.36%
65.0	19.837	1.996	2292.55	0.08%	98.45%
66.0	19.208	1.948	2294.498	0.08%	98.53%
67.0	18.509	1.896	2296.395	0.07%	98.62%
68.0	17.865	1.843	2298.237	0.07%	98.69%
69.0	17.208	1.789	2300.026	0.07%	98.77%
70.0	16.627	1.738	2301.764	0.07%	98.85%
71.0	15.990	1.686	2303.45	0.07%	98.92%
72.0	15.451	1.635	2305.085	0.06%	98.99%
73.0	14.925	1.588	2306.673	0.06%	99.06%
74.0	14.468	1.545	2308.218	0.06%	99.12%
75.0	14.087	1.509	2309.727	0.06%	99.19%

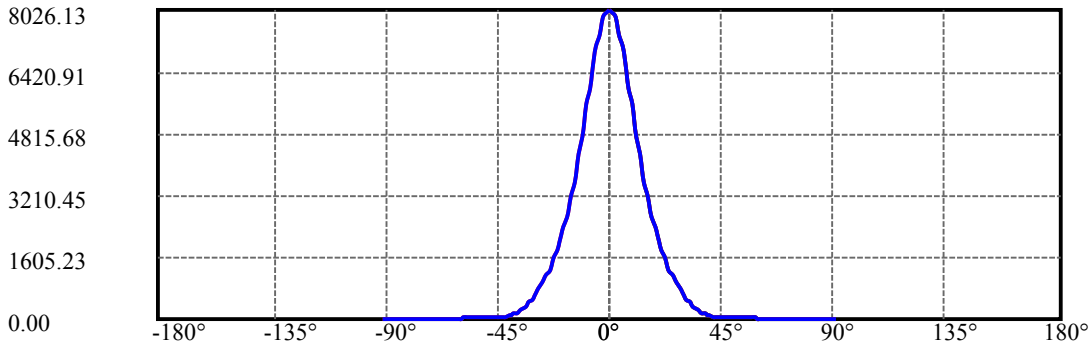
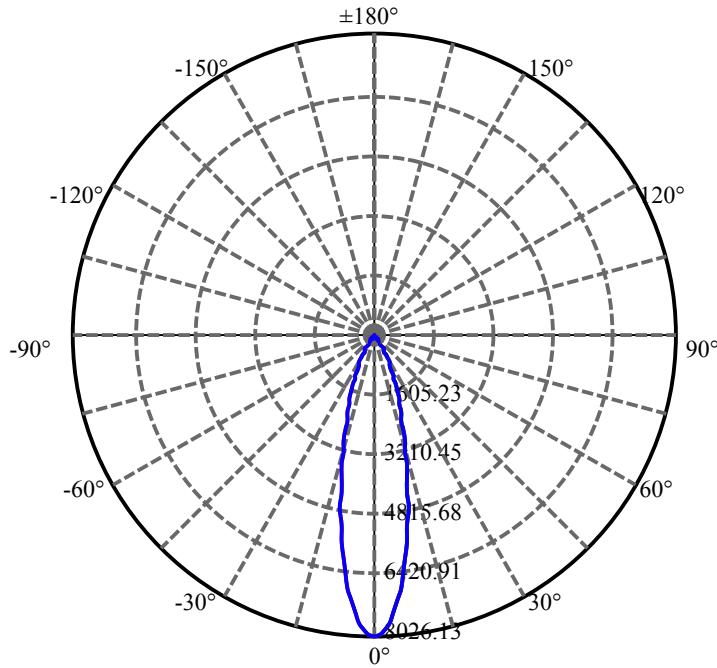
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	13.693	1.475	2311.202	0.06%	99.25%
77.0	13.347	1.442	2312.644	0.06%	99.31%
78.0	13.015	1.411	2314.055	0.05%	99.37%
79.0	12.669	1.380	2315.435	0.05%	99.43%
80.0	12.337	1.348	2316.783	0.05%	99.49%
81.0	12.019	1.317	2318.1	0.05%	99.55%
82.0	11.721	1.287	2319.387	0.05%	99.60%
83.0	11.431	1.259	2320.646	0.05%	99.66%
84.0	11.175	1.231	2321.877	0.05%	99.71%
85.0	10.863	1.203	2323.08	0.05%	99.76%
86.0	10.483	1.167	2324.247	0.05%	99.81%
87.0	10.227	1.133	2325.38	0.04%	99.86%
88.0	9.998	1.108	2326.488	0.04%	99.91%
89.0	9.818	1.086	2327.574	0.04%	99.95%
90.0	9.728	1.072	2328.646	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2046.76	79.49%	87.90%
0-40	2218.24	86.15%	95.26%
0-60	2282.04	88.63%	98.00%
0-90	2327.57	90.40%	99.95%
0-120	2327.57	90.40%	99.95%
0-180	2328.65	90.44%	100.00%
60-90	45.54	1.77%	1.96%
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%
0-25.71	1862.92	72.35%	80.00%

ZONAL LUMEN SUMMARY

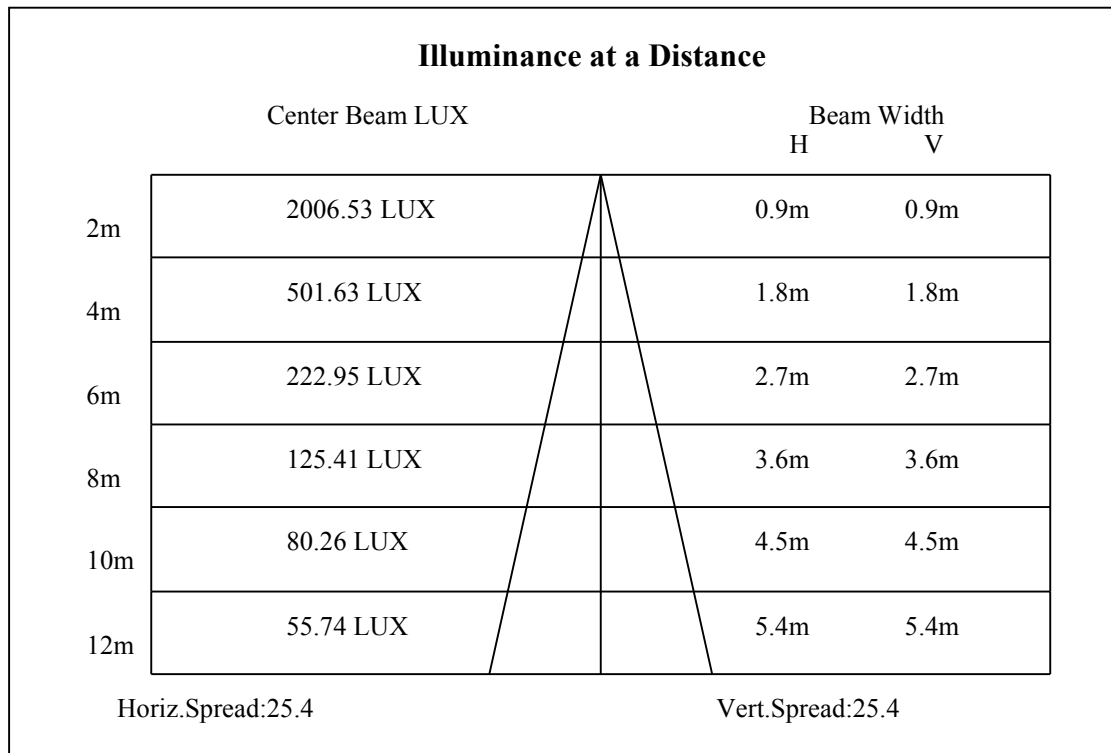
0-10	613.66
10-20	894.26
20-30	538.84
30-40	171.48
40-50	39.15
50-60	24.65
60-70	19.73
70-80	15.02
80-90	10.79
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

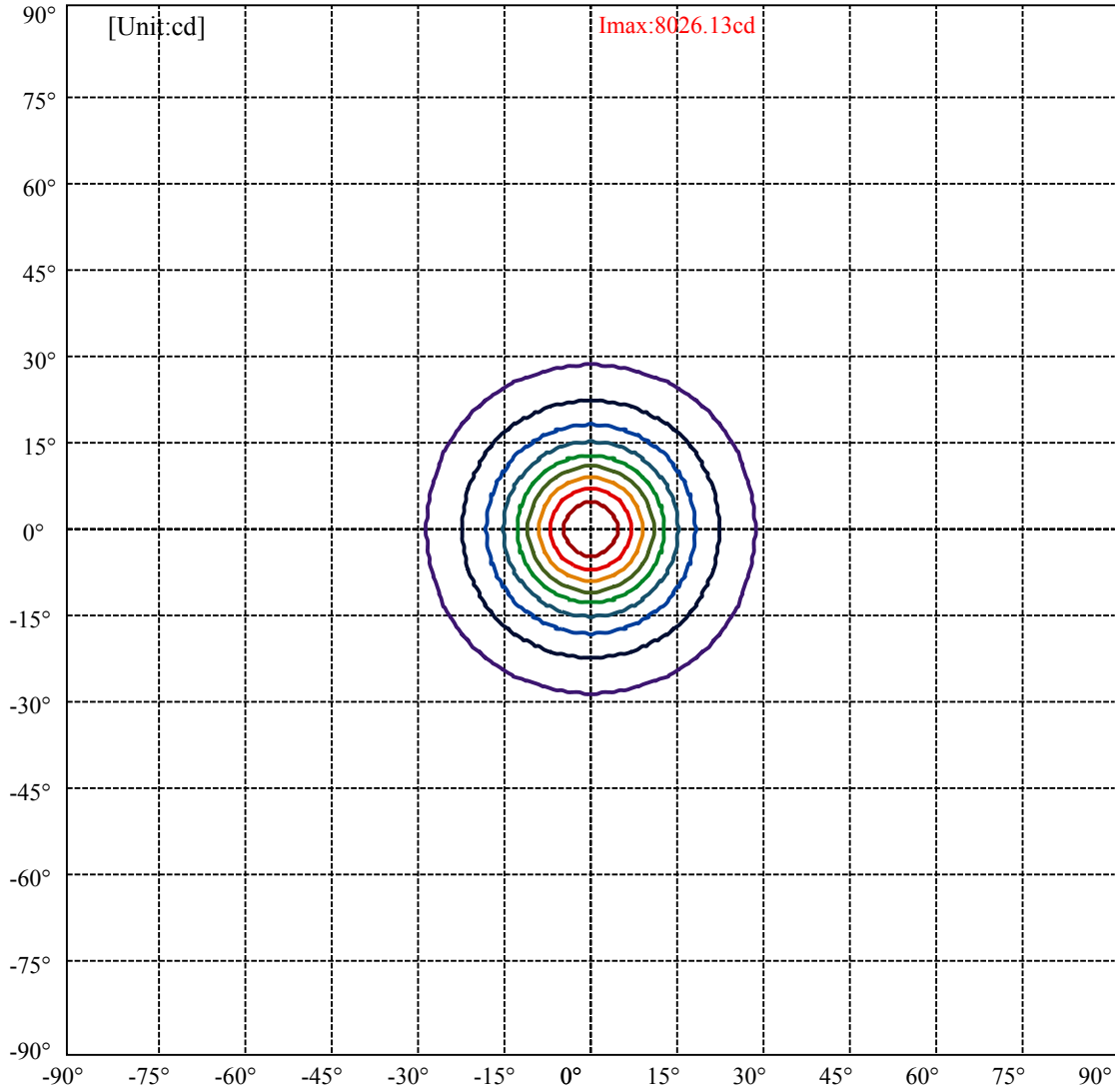


C0(Max): ———
C0/C180: ———
C90/C270: ———

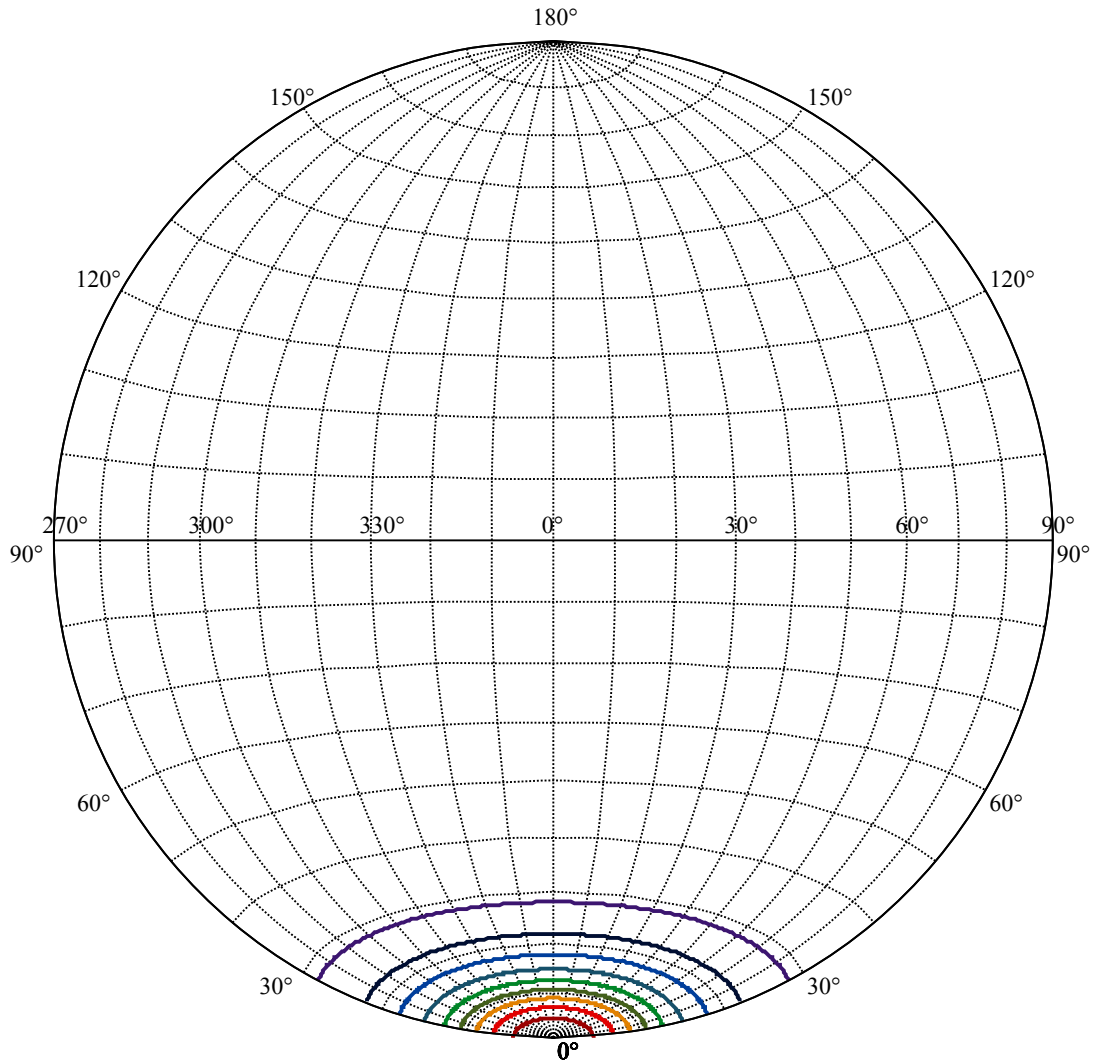
Field angle(10%Imax):C0/180Left:28.2 Right:28.2
:C90/270Left:28.2 Right:28.2

Beam Angle(50%Imax):C0/180Left:12.7 Right:12.7
:C90/270Left:12.7 Right:12.7





(10%Imax) 802.613	—
(20%Imax) 1605.23	—
(30%Imax) 2407.84	—
(40%Imax) 3210.45	—
(50%Imax) 4013.07	—
(60%Imax) 4815.68	—
(70%Imax) 5618.29	—
(80%Imax) 6420.91	—
(90%Imax) 7223.52	—



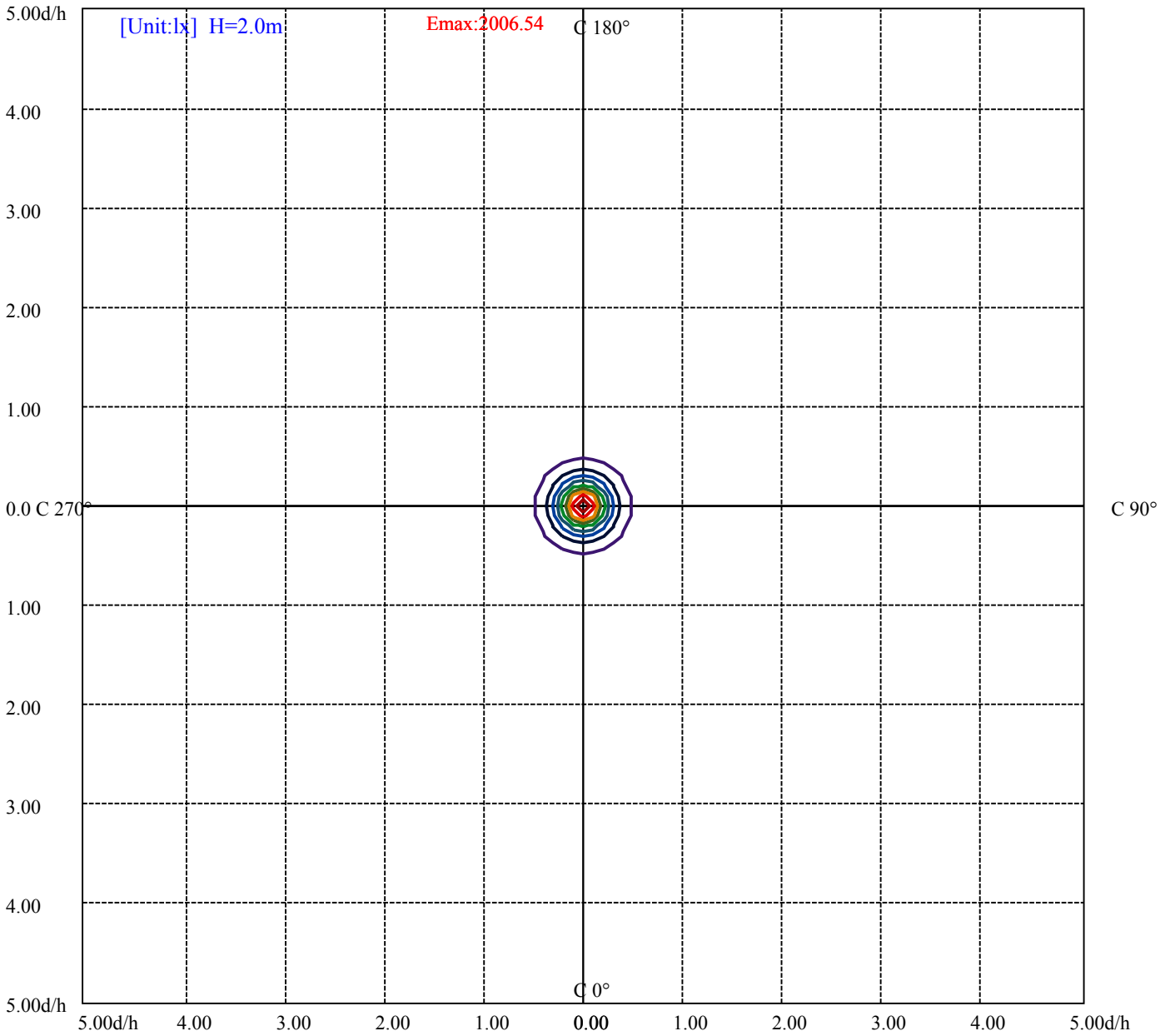
House

[Unit:cd]

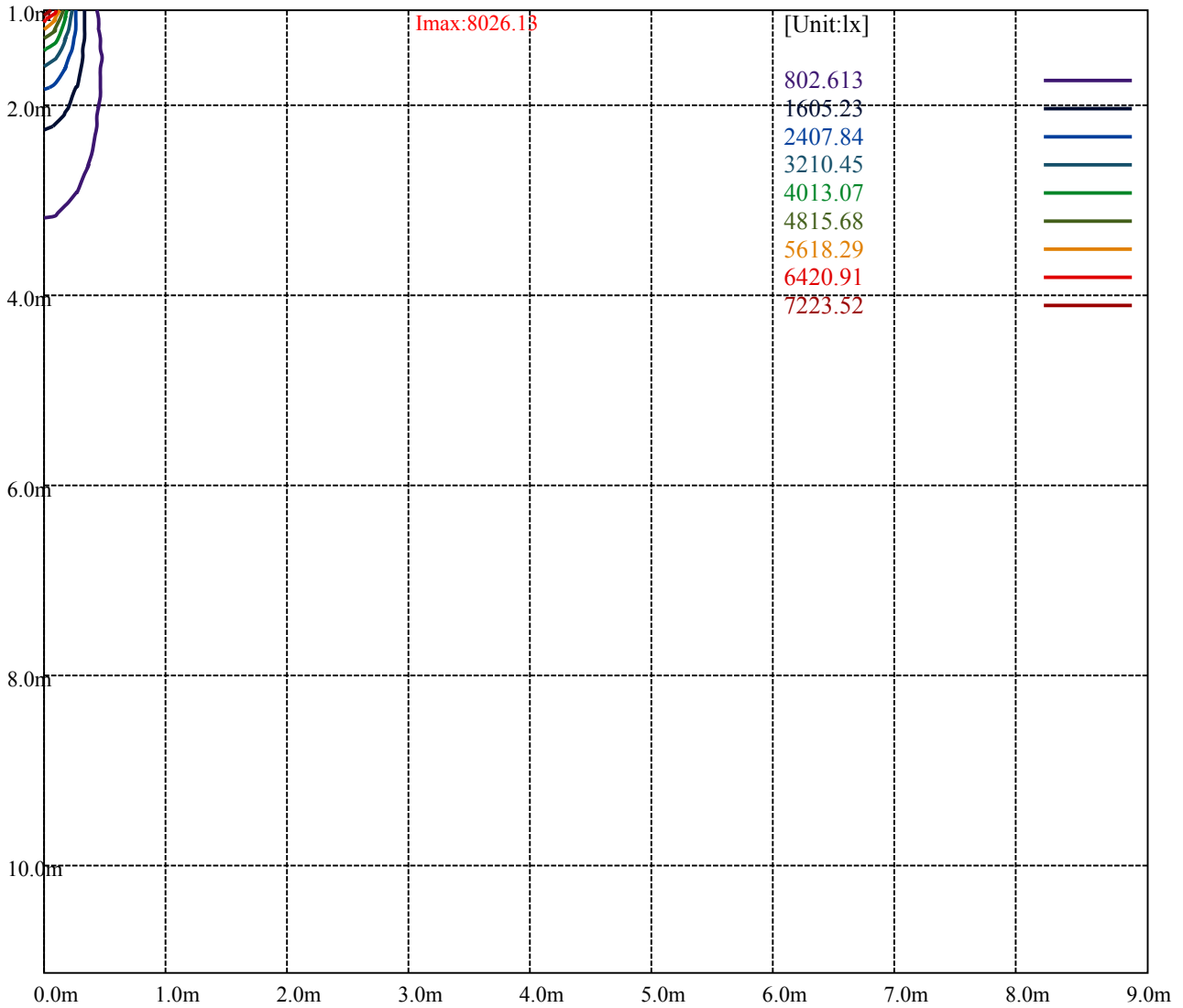
Road

Imax:8026.13

(10%Imax) 802.613	—
(20%Imax) 1605.23	—
(30%Imax) 2407.84	—
(40%Imax) 3210.45	—
(50%Imax) 4013.07	—
(60%Imax) 4815.68	—
(70%Imax) 5618.29	—
(80%Imax) 6420.91	—
(90%Imax) 7223.52	—



- (10%Emax) 200.6532
- (20%Emax) 401.3075
- (30%Emax) 601.96
- (40%Emax) 802.6125
- (50%Emax) 1003.265
- (60%Emax) 1203.92
- (70%Emax) 1404.573
- (80%Emax) 1605.225
- (90%Emax) 1805.877



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

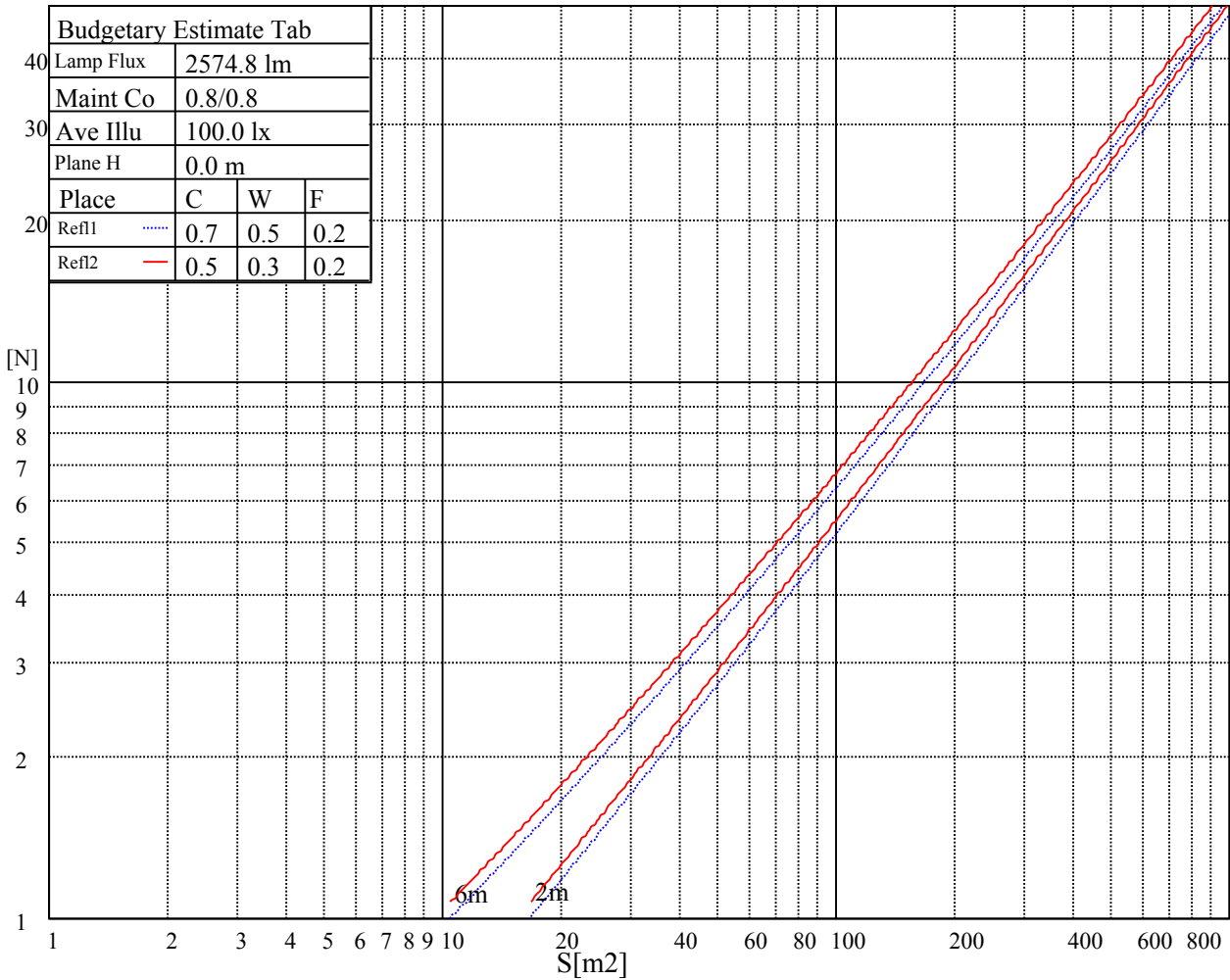
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

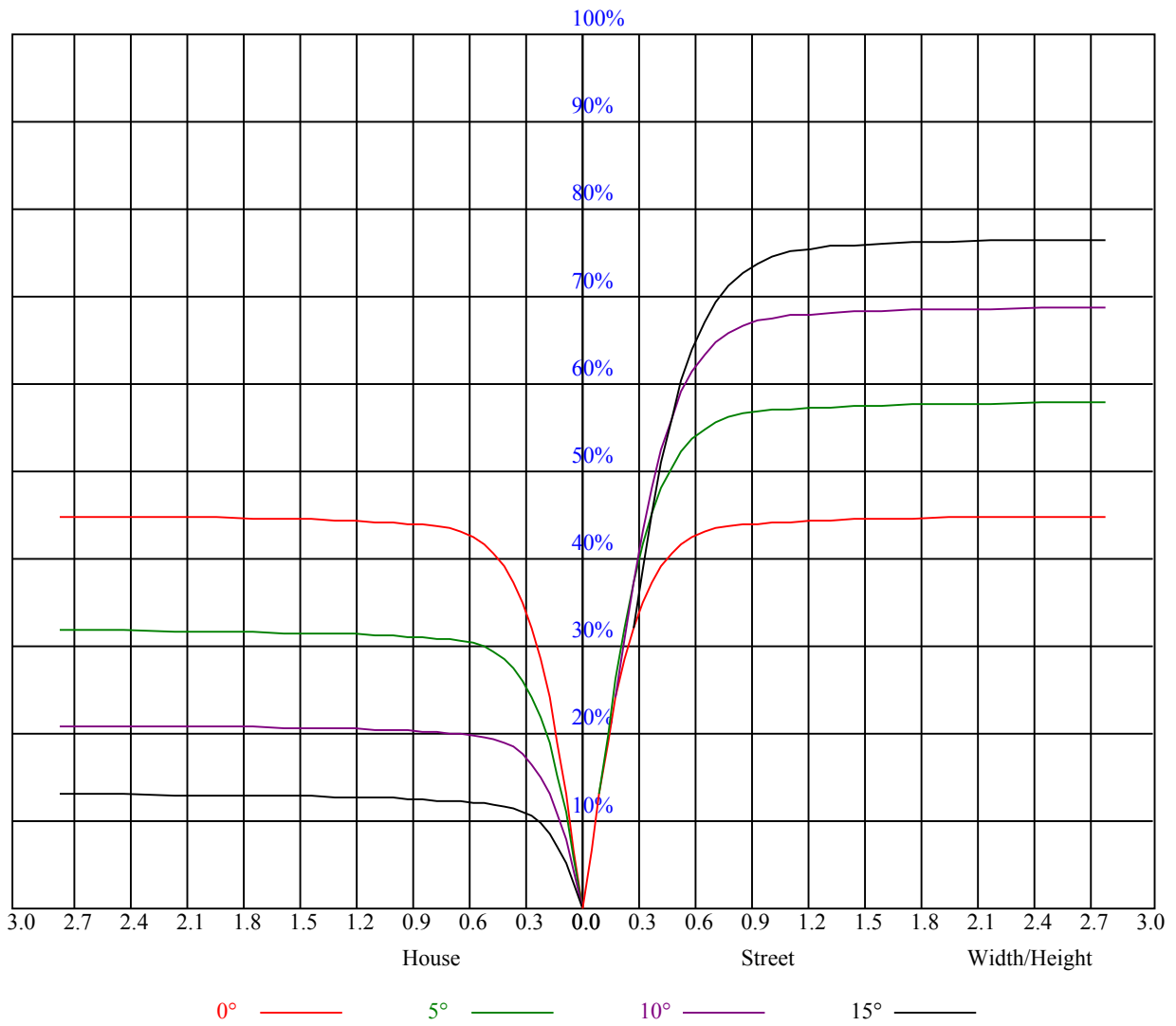


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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	
	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	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	
8H	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	1.00	1.00	1.00	0.96	0.96	0.96	0.92	0.92	0.92	0.90
1	1.01	0.99	0.97	0.99	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87	0.86
2	0.95	0.92	0.89	0.94	0.91	0.88	0.91	0.89	0.87	0.88	0.86	0.85	0.86	0.84	0.83	0.82
3	0.90	0.87	0.83	0.89	0.86	0.83	0.87	0.84	0.82	0.85	0.82	0.80	0.83	0.81	0.79	0.78
4	0.86	0.82	0.79	0.85	0.81	0.78	0.83	0.80	0.77	0.81	0.79	0.76	0.80	0.77	0.76	0.74
5	0.82	0.78	0.75	0.81	0.77	0.74	0.80	0.76	0.74	0.78	0.75	0.73	0.77	0.74	0.72	0.71
6	0.79	0.74	0.71	0.78	0.74	0.71	0.77	0.73	0.70	0.75	0.72	0.70	0.74	0.72	0.69	0.68
7	0.75	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.67	0.73	0.70	0.67	0.72	0.69	0.67	0.66
8	0.72	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.64	0.69	0.66	0.64	0.63
9	0.70	0.66	0.63	0.69	0.65	0.63	0.69	0.65	0.62	0.68	0.65	0.62	0.67	0.64	0.62	0.61
10	0.67	0.63	0.60	0.67	0.63	0.60	0.66	0.63	0.60	0.66	0.62	0.60	0.65	0.62	0.60	0.59



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	8003.58	7817.59	7588.98	7337.67	6947.98	6638.56	6278.76	5807.15	5412.48
45.0	8062.25	8024.06	7885.67	7633.81	7374.76	7101.87	6702.21	6355.70	5881.32
90.0	7989.19	7833.09	7639.90	7364.24	7090.24	6791.33	6375.07	6001.99	5597.36
135.0	8049.52	7991.95	7890.66	7683.63	7425.13	7156.11	6854.99	6532.83	6078.38
180.0	8003.58	8064.47	8021.29	7924.97	7748.40	7478.82	7235.27	6943.56	6512.90
225.0	8062.25	8015.20	7894.53	7676.99	7434.54	7160.54	6795.76	6446.48	6059.01
270.0	7989.19	8058.38	8052.29	7943.80	7689.72	7435.65	7133.42	6815.14	6354.59
315.0	8049.52	8048.97	7906.15	7693.60	7363.14	7063.67	6737.09	6277.10	5900.69
360.0	8003.58	7817.59	7588.98	7337.67	6947.98	6638.56	6278.76	5807.15	5412.48
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5008.95	4501.91	4109.45	3749.65	3351.11	3072.12	2802.00	2555.68	2278.35
45.0	5488.31	5083.12	4669.63	4175.32	3821.06	3500.56	3193.90	2849.60	2601.62
90.0	5186.08	4671.29	4276.07	3907.96	3585.81	3216.04	2934.29	2611.03	2403.45
135.0	5694.22	5192.17	4778.68	4375.15	3914.61	3586.36	3283.02	3000.17	2675.79
180.0	6158.64	5683.15	5261.36	4850.64	4332.53	3947.27	3594.66	3288.00	2948.69
225.0	5563.59	5161.72	4758.20	4253.37	3880.29	3461.81	3165.12	2880.05	2630.96
270.0	5981.51	5610.09	5225.38	4713.36	4312.05	3931.77	3501.12	3188.92	2868.98
315.0	5525.95	5020.02	4619.81	4226.80	3767.37	3451.85	3151.83	2888.90	2582.25
360.0	5008.95	4501.91	4109.45	3749.65	3351.11	3072.12	2802.00	2555.68	2278.35
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2080.19	1896.41	1727.03	1537.17	1399.34	1090.36	1090.36	1006.27	894.85
45.0	2384.63	2177.61	1947.34	1775.19	1586.99	1446.39	1314.09	1160.76	1041.75
90.0	2204.73	1960.62	1785.15	1627.40	1446.39	1095.84	1095.84	1067.05	926.67
135.0	2451.61	2247.91	2054.17	1835.53	1679.43	1530.53	1363.91	1234.39	1082.16
180.0	2688.52	2448.84	2236.84	2047.53	1822.24	1659.50	1476.83	1348.97	1223.87
225.0	2346.44	2139.97	1949.55	1775.19	1622.41	1445.28	1225.53	1078.29	1050.11
270.0	2629.85	2405.67	2185.36	1947.89	1772.42	1616.33	1472.96	1310.22	1185.67
315.0	2359.72	2151.04	1962.84	1743.64	1591.42	1416.50	1079.23	1079.23	1050.11
360.0	2080.19	1896.41	1727.03	1537.17	1399.34	1090.36	1090.36	1006.27	894.85
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	759.62	662.42	573.52	472.72	399.15	333.34	275.94	215.82	175.86
45.0	930.49	818.68	691.92	598.37	517.00	440.06	353.16	293.93	280.64
90.0	814.09	707.97	609.50	504.82	430.71	362.46	302.62	238.85	197.22
135.0	963.15	849.68	714.06	618.85	531.39	451.13	379.17	301.68	288.39
180.0	1077.73	962.05	855.21	725.69	623.84	536.38	457.22	367.55	306.11
225.0	938.13	833.63	704.15	608.72	523.53	430.15	362.95	303.34	239.35
270.0	1070.54	931.05	822.00	716.28	595.60	512.02	436.19	350.94	291.71
315.0	912.67	805.12	701.72	583.76	500.56	422.90	355.54	282.64	233.81
360.0	759.62	662.42	573.52	472.72	399.15	333.34	275.94	215.82	175.86
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	143.59	112.31	93.33	78.99	66.04	58.62	52.97	47.27	43.51
45.0	219.31	150.40	123.00	97.42	82.20	68.42	60.45	54.30	49.32
90.0	155.54	129.53	108.88	89.62	77.94	68.69	61.11	53.69	49.04
135.0	288.39	165.06	130.03	108.71	92.39	77.05	67.53	59.62	52.20
180.0	292.27	292.27	159.31	131.08	108.77	87.68	75.39	64.21	57.35
225.0	196.89	161.74	132.85	105.12	88.34	75.61	66.15	57.24	52.09
270.0	291.71	185.60	153.38	127.76	107.00	87.62	76.11	67.20	60.45
315.0	192.46	158.42	124.82	104.18	88.18	73.29	64.49	56.41	51.20
360.0	143.59	112.31	93.33	78.99	66.04	58.62	52.97	47.27	43.51

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	40.19	36.75	34.49	32.55	30.94	29.39	28.34	27.57	26.96
45.0	45.22	40.91	38.03	35.65	33.49	31.33	30.06	28.95	27.84
90.0	45.22	41.90	38.53	36.26	34.26	32.44	31.11	29.78	28.89
135.0	47.60	43.07	40.08	37.53	35.26	32.94	31.55	30.33	29.39
180.0	51.87	47.38	42.73	39.69	37.09	34.87	32.49	31.05	29.78
225.0	46.72	43.12	40.02	36.81	34.60	32.77	31.22	29.72	28.67
270.0	53.80	49.43	45.61	41.57	38.86	36.59	34.15	32.55	31.22
315.0	47.00	43.29	39.47	36.92	34.71	32.88	31.05	29.78	28.78
360.0	40.19	36.75	34.49	32.55	30.94	29.39	28.34	27.57	26.96
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	26.18	25.57	24.96	24.30	23.75	22.69	21.98	21.37	20.70
45.0	27.18	26.35	25.79	25.24	24.52	23.91	23.14	22.36	21.59
90.0	28.17	27.46	26.51	25.85	25.13	24.30	23.14	22.36	21.70
135.0	28.40	27.68	26.96	26.35	25.52	24.85	23.80	22.97	22.20
180.0	28.73	27.84	27.07	26.40	25.74	24.96	24.41	23.69	22.86
225.0	27.95	27.18	26.40	25.74	25.13	24.41	23.69	22.64	21.98
270.0	29.78	28.95	28.12	27.40	26.51	25.79	25.13	24.36	23.30
315.0	28.01	27.01	26.35	25.41	24.80	24.19	23.25	22.42	21.70
360.0	26.18	25.57	24.96	24.30	23.75	22.69	21.98	21.37	20.70
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	19.93	19.37	18.82	18.21	17.44	16.88	16.33	15.78	15.11
45.0	20.98	20.26	19.65	19.04	18.49	17.88	17.21	16.72	16.22
90.0	20.98	20.15	19.60	18.76	18.05	17.44	16.72	16.16	15.55
135.0	21.26	20.59	19.93	19.37	18.54	17.88	17.27	16.72	15.94
180.0	21.92	21.20	20.48	19.82	19.10	18.49	17.82	17.21	16.55
225.0	21.31	20.43	19.76	19.21	18.60	17.93	17.21	16.66	16.05
270.0	22.53	21.81	20.87	20.26	19.48	18.82	18.10	17.33	16.77
315.0	20.87	20.15	19.60	18.99	18.38	17.60	16.99	16.44	15.72
360.0	19.93	19.37	18.82	18.21	17.44	16.88	16.33	15.78	15.11
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	14.72	14.23	13.89	13.62	13.23	12.95	12.68	12.34	12.07
45.0	15.61	15.17	14.78	14.50	14.17	13.84	13.51	13.06	12.73
90.0	14.95	14.56	14.17	13.78	13.40	13.06	12.73	12.40	12.01
135.0	15.39	14.89	14.39	14.00	13.67	13.23	12.90	12.57	12.23
180.0	16.00	15.44	14.78	14.34	13.84	13.51	13.17	12.84	12.45
225.0	15.50	14.89	14.50	14.06	13.67	13.40	13.06	12.73	12.51
270.0	16.22	15.61	15.00	14.56	14.17	13.78	13.34	13.01	12.68
315.0	15.22	14.61	14.23	13.84	13.40	13.01	12.73	12.40	12.01
360.0	14.72	14.23	13.89	13.62	13.23	12.95	12.68	12.34	12.07
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	11.79	11.51	11.18	10.96	10.74	10.19	10.02	9.74	9.80
45.0	12.34	11.96	11.62	11.24	10.96	10.30	10.13	9.91	9.69
90.0	11.73	11.40	11.13	10.90	10.35	10.24	10.02	9.80	9.69
135.0	11.96	11.62	11.35	11.13	10.79	10.46	10.30	10.07	9.80
180.0	12.12	11.85	11.62	11.40	11.18	10.85	10.46	10.24	10.02
225.0	12.12	11.90	11.62	11.35	11.02	10.46	10.19	10.02	9.80
270.0	12.34	12.07	11.68	11.46	11.13	10.85	10.46	10.19	10.02
315.0	11.73	11.46	11.24	10.96	10.74	10.52	10.24	10.02	9.74
360.0	11.79	11.51	11.18	10.96	10.74	10.19	10.02	9.74	9.80

Intensity data(cd)

C/γ(°)	90.0
0.0	9.74
45.0	9.69
90.0	9.69
135.0	9.74
180.0	9.85
225.0	9.69
270.0	9.74
315.0	9.69
360.0	9.74