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NATA

LumCAT: 2-2642-L
Luminaire: 92.70.411.00
LampCAT: NICHIA NFCWJ120B-V3
Ballast type: AC
Report No: 20231019-B015
Test No: 20231019-C015
Number of Lamps: 1
Lamp flux(lm): 2611.4
Length(mm): 0
Phm Type: C

Voltage(V): 34.2300
Current(A): 0.5770
Power (W): 19.7500
PF: 0.0000
Width(mm): 0
Height(mm): 0

Photometric Results

Lumens(lm): 2435.63, Efficiency(%): 93.27% , Luminous Efficacy(lm/W): 123.32
Central intensity(cd): 3786.186, Maximum intensity(cd): 3786.740
Angle of maximum intensity: C=0.0 $\gamma=1.0$
Beam Angle(50%Imax): [C0/180]Total=48.6
 [C90/270]Total=48.6
Field angle(10%Imax): [C0/180]Total=71.8
 [C90/270]Total=71.8
Maximum s/h(1/2): C0_180=0.76 C90_270=0.76
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(%): 93.27%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.857%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3786.186	0.000	0	0.00%	0.00%
1.0	3786.740	3.624	3.624	0.14%	0.15%
2.0	3781.274	10.862	14.486	0.42%	0.59%
3.0	3772.209	18.065	32.551	0.69%	1.34%
4.0	3751.175	25.183	57.734	0.96%	2.37%
5.0	3721.423	32.147	89.881	1.23%	3.69%
6.0	3684.405	38.920	128.801	1.49%	5.29%
7.0	3636.247	45.439	174.24	1.74%	7.15%
8.0	3572.521	51.592	225.832	1.98%	9.27%
9.0	3504.575	57.356	283.188	2.20%	11.63%
10.0	3427.979	62.737	345.925	2.40%	14.20%
11.0	3342.112	67.647	413.572	2.59%	16.98%
12.0	3253.062	72.095	485.667	2.76%	19.94%
13.0	3159.999	76.107	561.773	2.91%	23.06%
14.0	3063.545	79.661	641.434	3.05%	26.34%
15.0	2967.299	82.794	724.228	3.17%	29.73%
16.0	2865.102	85.461	809.689	3.27%	33.24%
17.0	2755.295	87.525	897.214	3.35%	36.84%
18.0	2651.576	89.148	986.362	3.41%	40.50%
19.0	2545.989	90.427	1076.789	3.46%	44.21%
20.0	2427.671	91.032	1167.82	3.49%	47.95%
21.0	2304.578	90.869	1258.689	3.48%	51.68%
22.0	2184.876	90.217	1348.907	3.45%	55.38%
23.0	2064.551	89.164	1438.071	3.41%	59.04%
24.0	1933.363	87.409	1525.48	3.35%	62.63%
25.0	1807.295	85.054	1610.534	3.26%	66.12%
26.0	1676.730	82.241	1692.775	3.15%	69.50%
27.0	1482.888	77.301	1770.076	2.96%	72.67%
28.0	1385.328	72.617	1842.693	2.78%	75.66%
29.0	1226.843	68.342	1911.035	2.62%	78.46%
30.0	1091.753	62.602	1973.636	2.40%	81.03%
31.0	966.875	57.289	2030.925	2.19%	83.38%
32.0	836.524	51.665	2082.59	1.98%	85.51%
33.0	699.753	45.259	2127.849	1.73%	87.36%
34.0	575.152	38.582	2166.432	1.48%	88.95%
35.0	464.403	32.285	2198.717	1.24%	90.27%
36.0	364.981	26.408	2225.124	1.01%	91.36%
37.0	299.103	21.659	2246.783	0.83%	92.25%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	237.951	17.926	2264.709	0.69%	92.98%
39.0	180.653	14.288	2278.997	0.55%	93.57%
40.0	163.418	12.000	2290.997	0.46%	94.06%
41.0	115.544	9.934	2300.931	0.38%	94.47%
42.0	102.176	7.910	2308.841	0.30%	94.79%
43.0	90.143	7.124	2315.965	0.27%	95.09%
44.0	80.553	6.443	2322.408	0.25%	95.35%
45.0	72.582	5.885	2328.293	0.23%	95.59%
46.0	66.120	5.424	2333.717	0.21%	95.82%
47.0	60.467	5.035	2338.752	0.19%	96.02%
48.0	55.084	4.671	2343.423	0.18%	96.21%
49.0	50.711	4.345	2347.768	0.17%	96.39%
50.0	46.933	4.071	2351.839	0.16%	96.56%
51.0	43.757	3.837	2355.676	0.15%	96.72%
52.0	41.003	3.637	2359.313	0.14%	96.87%
53.0	38.602	3.463	2362.776	0.13%	97.01%
54.0	36.499	3.310	2366.086	0.13%	97.14%
55.0	34.534	3.171	2369.256	0.12%	97.27%
56.0	32.880	3.046	2372.303	0.12%	97.40%
57.0	31.213	2.930	2375.233	0.11%	97.52%
58.0	29.884	2.825	2378.058	0.11%	97.64%
59.0	28.632	2.736	2380.794	0.10%	97.75%
60.0	27.400	2.647	2383.441	0.10%	97.86%
61.0	26.321	2.564	2386.005	0.10%	97.96%
62.0	25.283	2.487	2388.491	0.10%	98.06%
63.0	24.363	2.415	2390.906	0.09%	98.16%
64.0	23.421	2.345	2393.251	0.09%	98.26%
65.0	22.633	2.279	2395.53	0.09%	98.35%
66.0	21.851	2.219	2397.749	0.08%	98.44%
67.0	21.110	2.160	2399.91	0.08%	98.53%
68.0	20.412	2.103	2402.013	0.08%	98.62%
69.0	19.747	2.049	2404.062	0.08%	98.70%
70.0	19.083	1.994	2406.056	0.08%	98.79%
71.0	18.426	1.939	2407.995	0.07%	98.87%
72.0	17.838	1.886	2409.88	0.07%	98.94%
73.0	17.215	1.833	2411.713	0.07%	99.02%
74.0	16.648	1.780	2413.493	0.07%	99.09%
75.0	16.066	1.728	2415.222	0.07%	99.16%

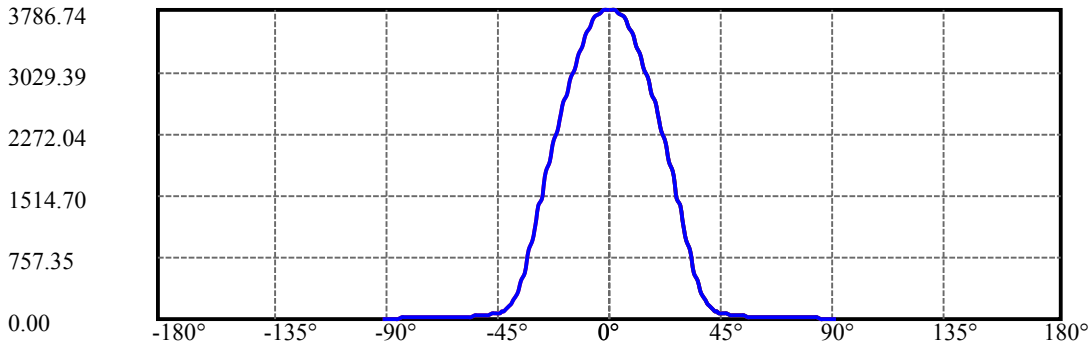
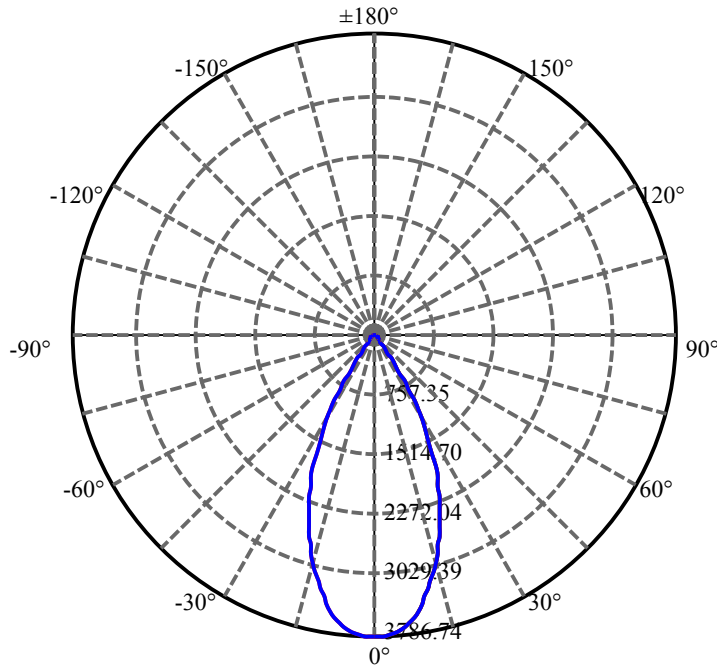
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	15.492	1.675	2416.897	0.06%	99.23%
77.0	14.966	1.624	2418.521	0.06%	99.30%
78.0	14.461	1.575	2420.096	0.06%	99.36%
79.0	13.942	1.526	2421.622	0.06%	99.42%
80.0	13.409	1.475	2423.097	0.06%	99.49%
81.0	12.925	1.424	2424.521	0.05%	99.54%
82.0	12.455	1.376	2425.897	0.05%	99.60%
83.0	12.046	1.332	2427.229	0.05%	99.66%
84.0	11.693	1.293	2428.523	0.05%	99.71%
85.0	11.361	1.258	2429.781	0.05%	99.76%
86.0	11.064	1.226	2431.007	0.05%	99.81%
87.0	10.773	1.195	2432.202	0.05%	99.86%
88.0	10.483	1.164	2433.366	0.04%	99.91%
89.0	10.310	1.140	2434.506	0.04%	99.95%
90.0	10.220	1.126	2435.631	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1973.64	75.58%	81.03%
0-40	2291.00	87.73%	94.06%
0-60	2383.44	91.27%	97.86%
0-90	2434.51	93.23%	99.95%
0-120	2434.51	93.23%	99.95%
0-180	2435.63	93.27%	100.00%
60-90	51.06	1.96%	2.10%
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%
0-29.60	1948.51	74.62%	80.00%

ZONAL LUMEN SUMMARY

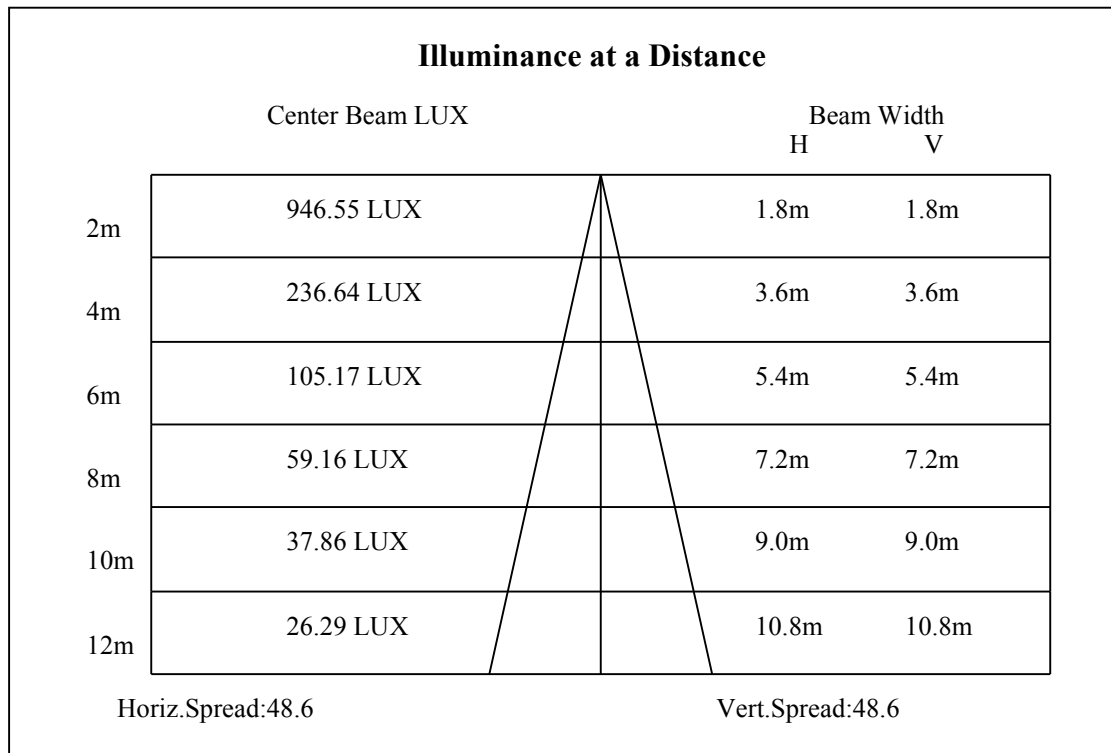
0-10	345.92
10-20	821.90
20-30	805.82
30-40	317.36
40-50	60.84
50-60	31.60
60-70	22.61
70-80	17.04
80-90	11.41
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

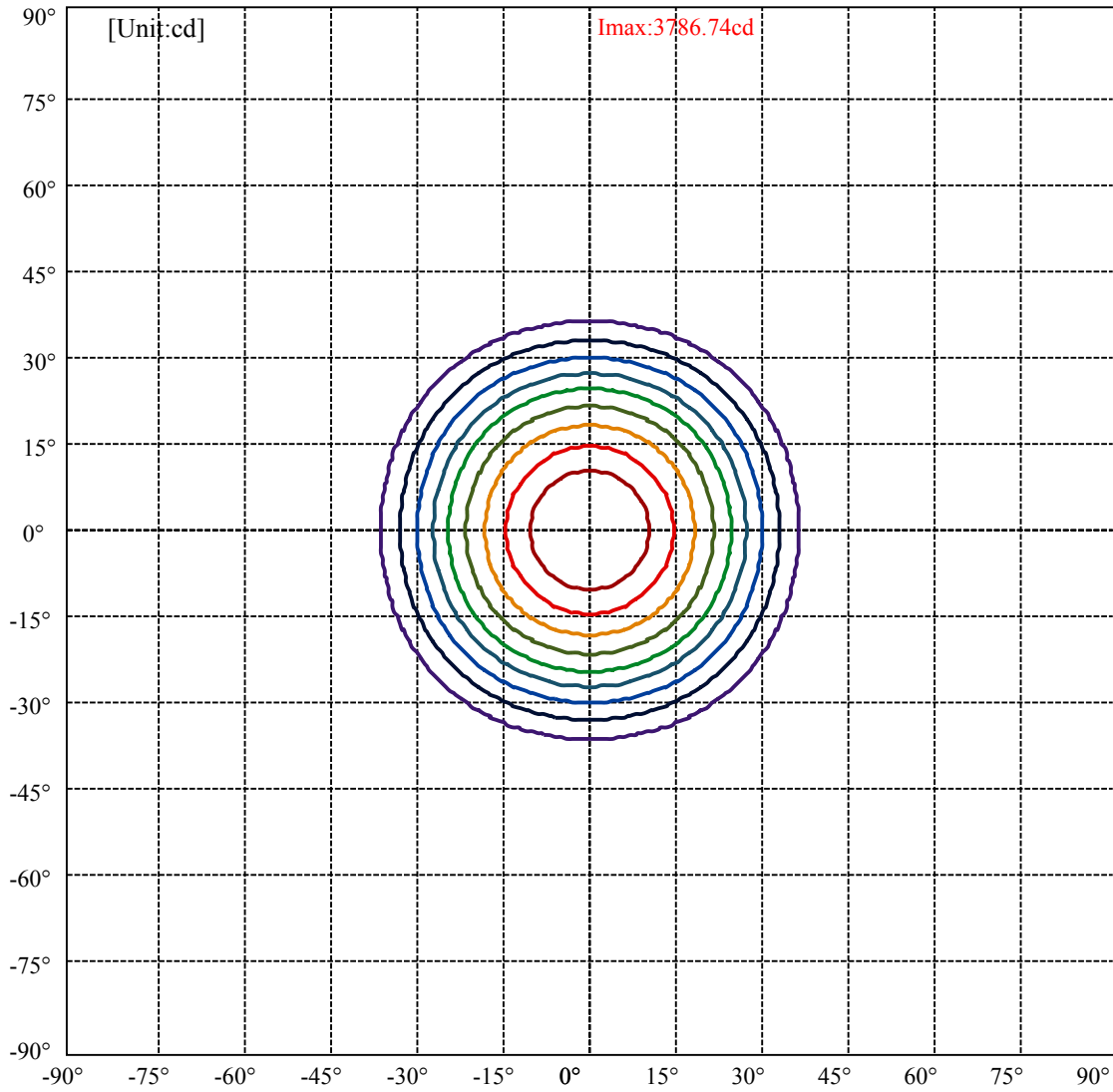


C0(Max): —————
C0/C180: —————
C90/C270: —————

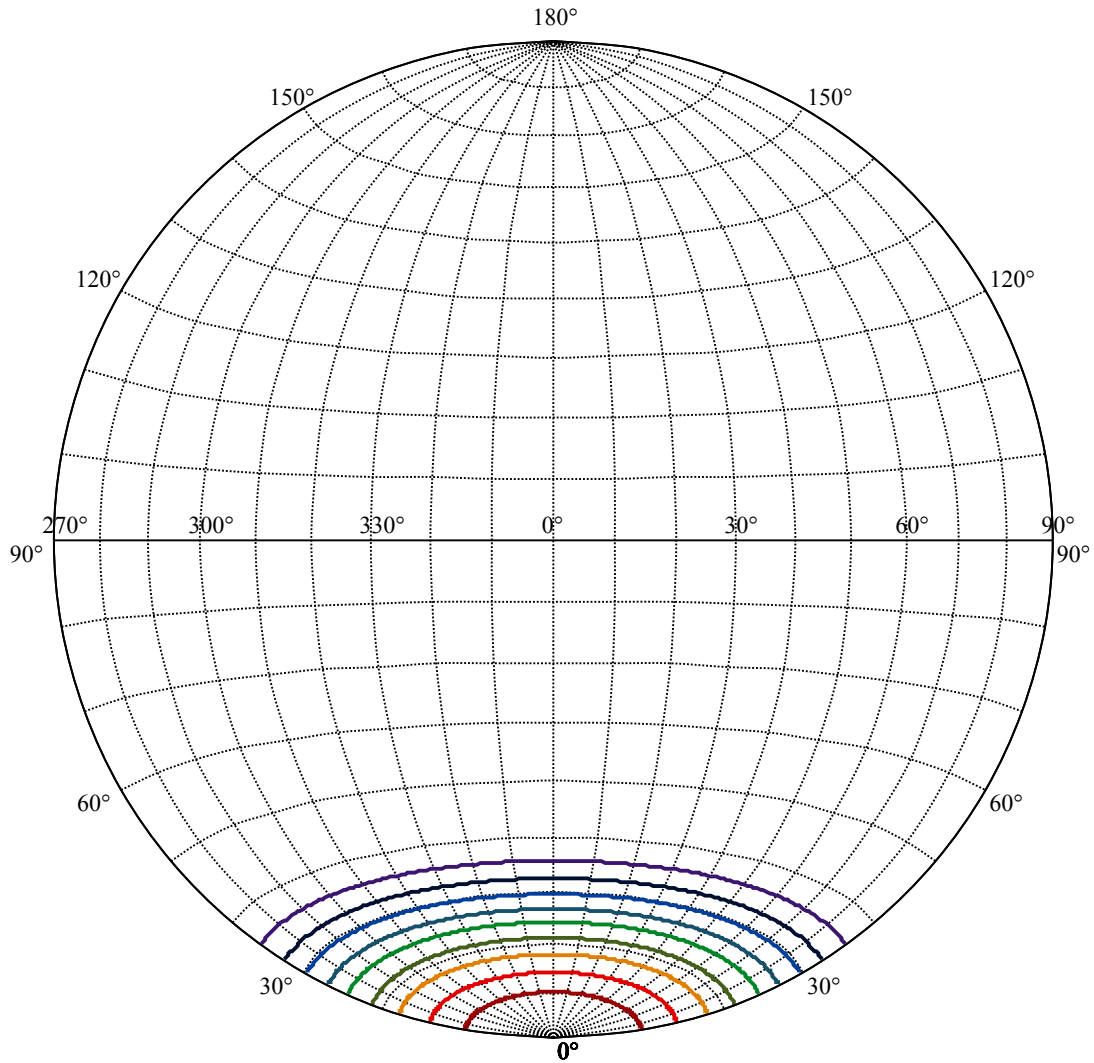
Field angle(10%Imax):C0/180Left:36.9 Right:34.9
:C90/270Left:36.9 Right:34.9

Beam Angle(50%Imax):C0/180Left:25.3 Right:23.3
:C90/270Left:25.3 Right:23.3





(10%Imax) 378.674	—
(20%Imax) 757.348	—
(30%Imax) 1136.02	—
(40%Imax) 1514.7	—
(50%Imax) 1893.37	—
(60%Imax) 2272.04	—
(70%Imax) 2650.72	—
(80%Imax) 3029.39	—
(90%Imax) 3408.07	—



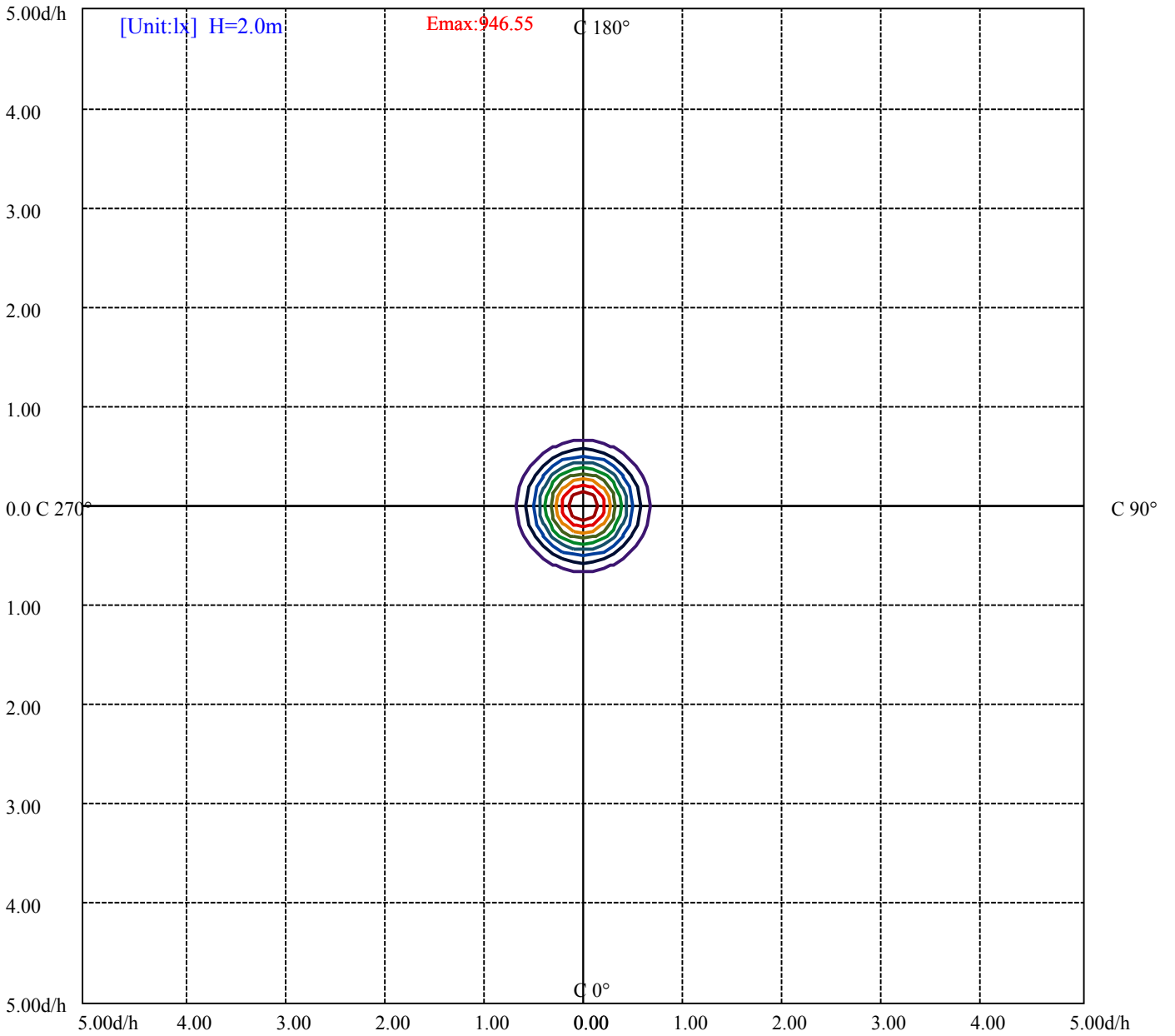
House

[Unit:cd]

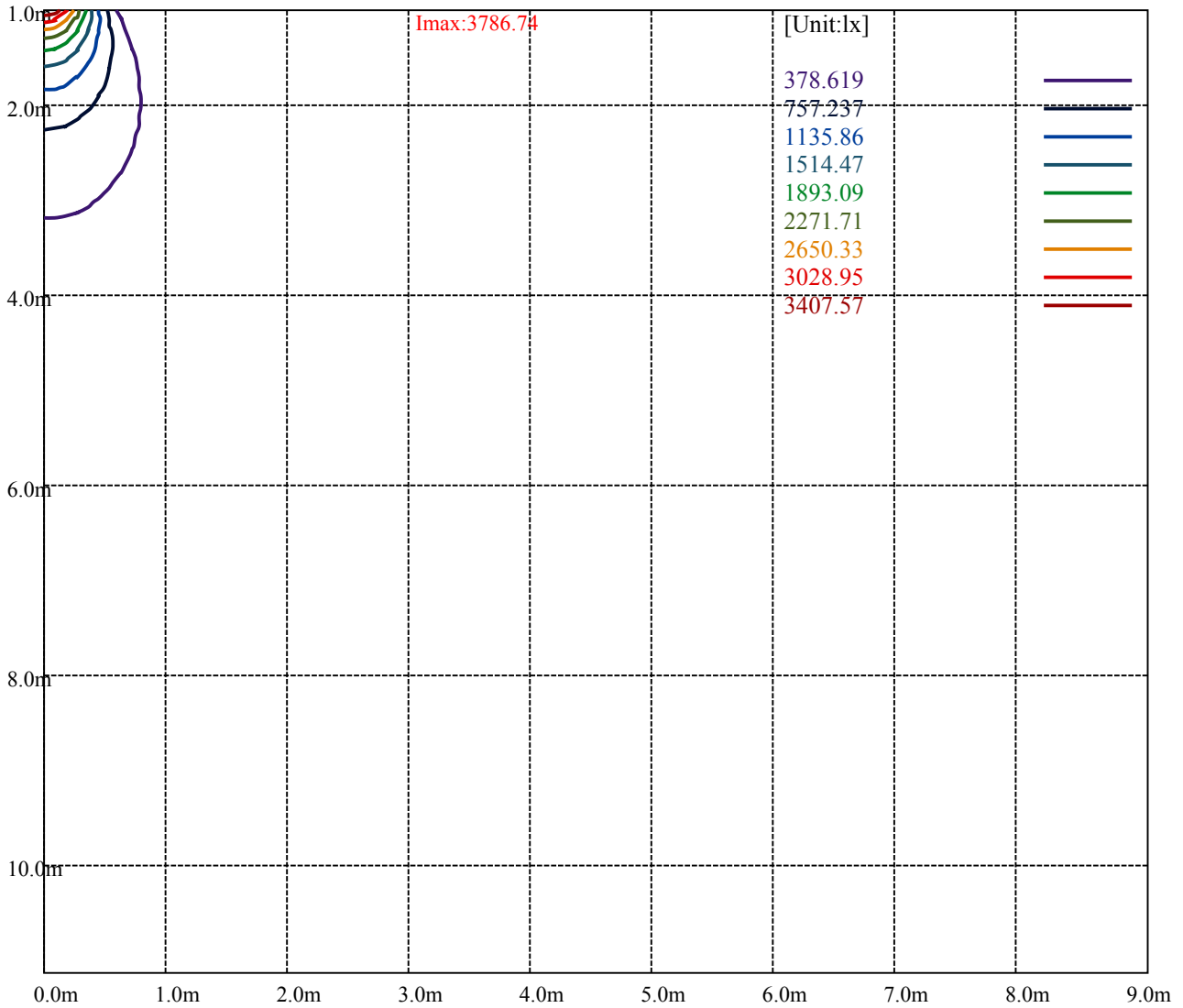
Road

Imax:3786.74

(10%Imax)	378.674	—
(20%Imax)	757.348	—
(30%Imax)	1136.02	—
(40%Imax)	1514.7	—
(50%Imax)	1893.37	—
(60%Imax)	2272.04	—
(70%Imax)	2650.72	—
(80%Imax)	3029.39	—
(90%Imax)	3408.07	—



(10%Emax) 94.65475	—
(20%Emax) 189.3092	—
(30%Emax) 283.965	—
(40%Emax) 378.6175	—
(50%Emax) 473.2725	—
(60%Emax) 567.9275	—
(70%Emax) 662.5825	—
(80%Emax) 757.2375	—
(90%Emax) 851.8925	—



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

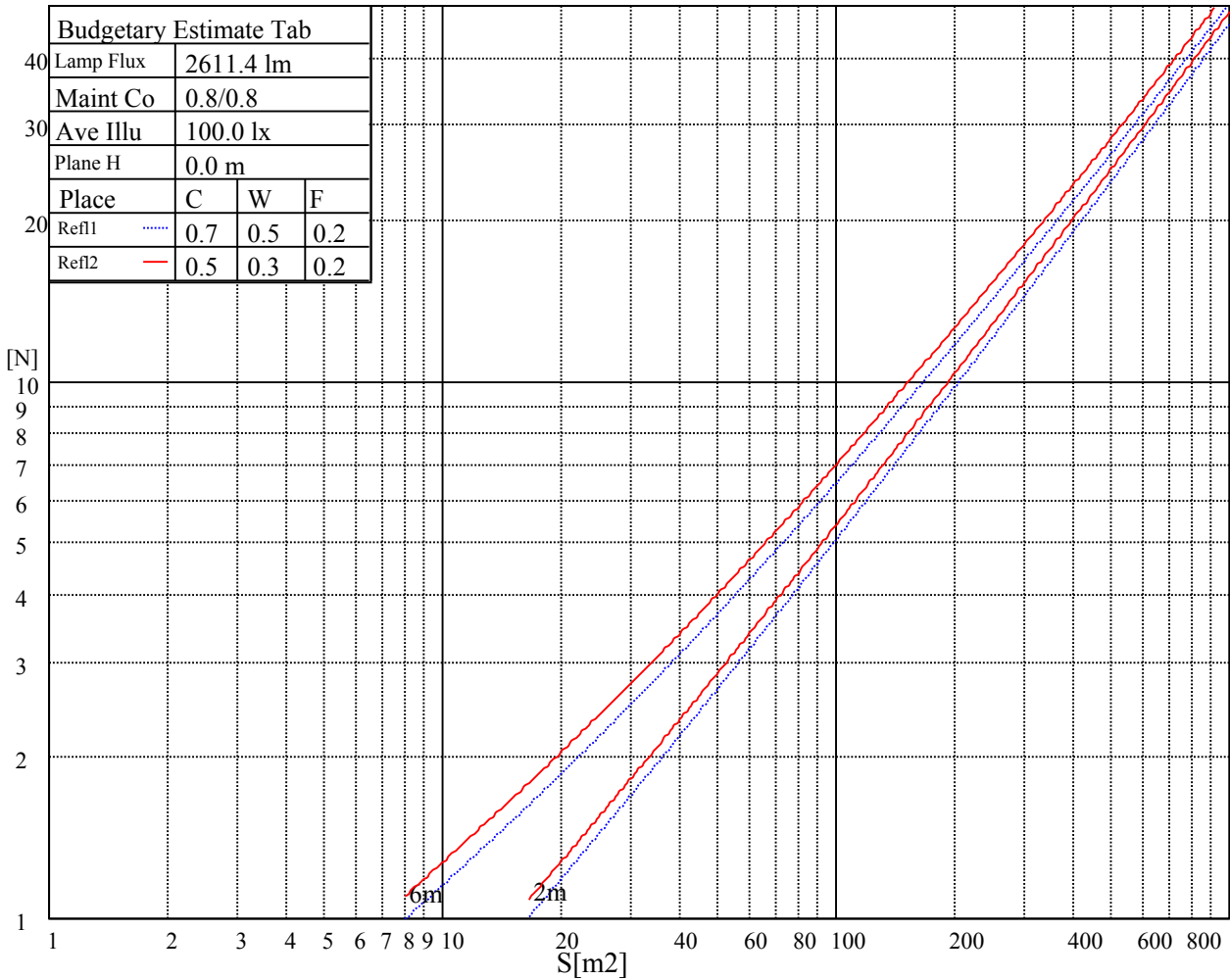
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

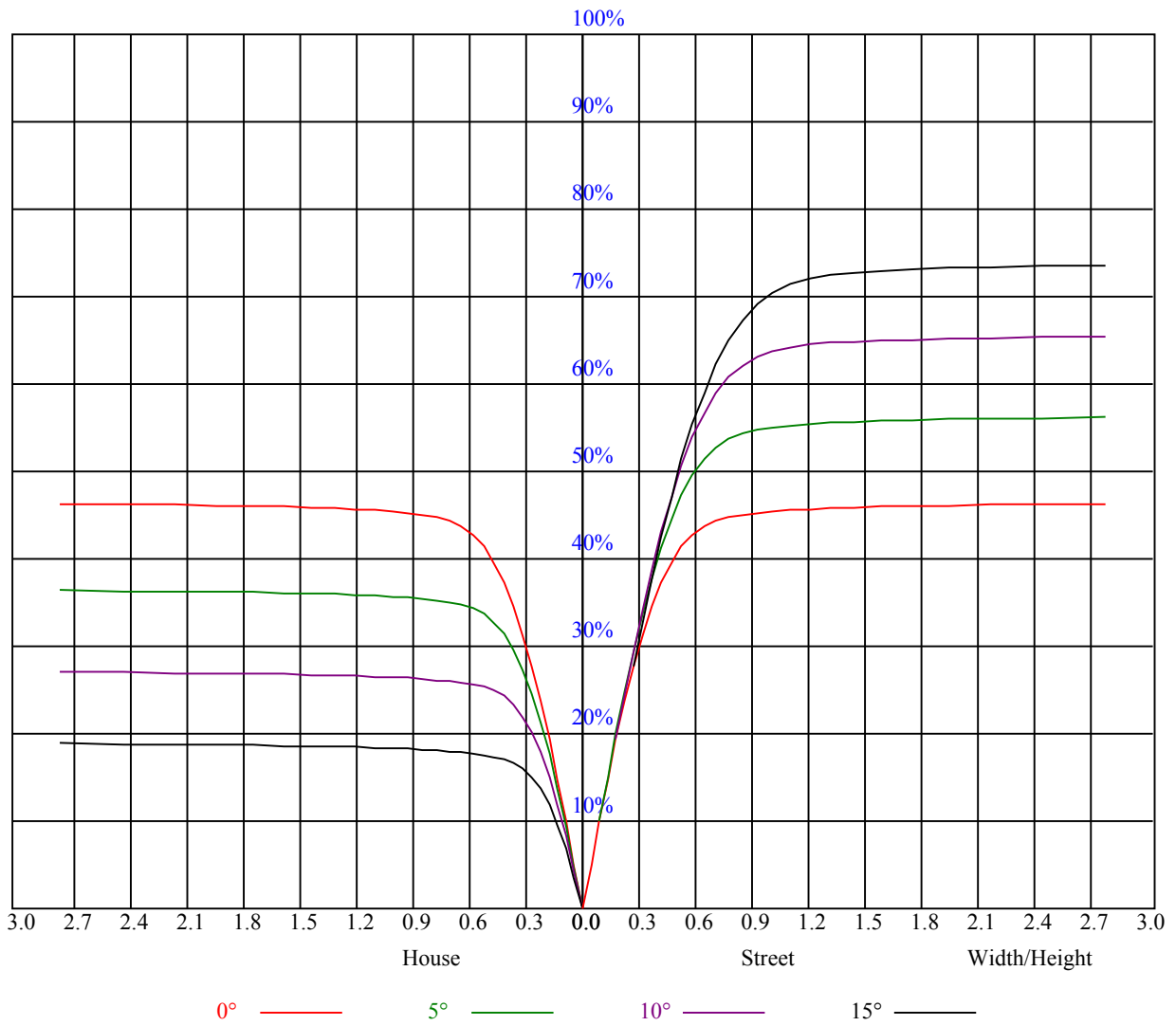


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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	1.11	1.11	1.11	1.08	1.08	1.08	1.04	1.04	1.04	0.99	0.99	0.99	0.95	0.95	0.95	0.93
1	1.03	1.01	0.99	1.01	0.99	0.97	0.98	0.96	0.94	0.94	0.93	0.92	0.91	0.90	0.89	0.87
2	0.97	0.93	0.90	0.95	0.92	0.89	0.92	0.89	0.87	0.89	0.87	0.85	0.87	0.85	0.83	0.82
3	0.91	0.86	0.83	0.89	0.85	0.82	0.87	0.84	0.81	0.85	0.82	0.79	0.83	0.80	0.78	0.77
4	0.85	0.80	0.77	0.84	0.80	0.76	0.82	0.78	0.75	0.80	0.77	0.74	0.79	0.76	0.74	0.72
5	0.80	0.75	0.72	0.80	0.75	0.71	0.78	0.74	0.71	0.76	0.73	0.70	0.75	0.72	0.69	0.68
6	0.76	0.71	0.67	0.75	0.71	0.67	0.74	0.70	0.67	0.73	0.69	0.66	0.72	0.68	0.66	0.64
7	0.72	0.67	0.63	0.72	0.67	0.63	0.70	0.66	0.63	0.69	0.65	0.62	0.68	0.65	0.62	0.61
8	0.69	0.63	0.60	0.68	0.63	0.60	0.67	0.63	0.59	0.66	0.62	0.59	0.65	0.62	0.59	0.58
9	0.65	0.60	0.57	0.65	0.60	0.57	0.64	0.60	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	0.53	0.60	0.56	0.53	0.52



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	3782.87	3770.13	3740.80	3711.46	3659.98	3607.39	3546.51	3481.19	3388.19
45.0	3790.06	3781.76	3770.13	3750.76	3720.87	3668.28	3617.36	3560.34	3478.42
90.0	3782.87	3775.67	3755.74	3737.48	3694.85	3649.46	3600.20	3519.38	3449.08
135.0	3788.95	3792.28	3793.38	3785.63	3778.99	3756.30	3725.30	3675.48	3623.45
180.0	3782.87	3791.72	3796.70	3800.58	3809.43	3808.33	3803.90	3787.85	3742.46
225.0	3790.06	3798.36	3808.88	3814.97	3809.99	3791.72	3766.81	3733.05	3683.23
270.0	3782.87	3793.94	3796.15	3807.22	3791.72	3778.44	3757.96	3719.76	3684.89
315.0	3788.95	3790.06	3788.40	3769.58	3743.56	3711.46	3657.21	3612.93	3530.45
360.0	3782.87	3770.13	3740.80	3711.46	3659.98	3607.39	3546.51	3481.19	3388.19

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3309.59	3212.72	3135.23	3052.75	2952.56	2869.53	2780.41	2686.31	2562.87
45.0	3403.69	3323.98	3244.27	3146.85	3069.91	2985.22	2899.42	2782.63	2689.08
90.0	3379.89	3301.84	3187.81	3093.71	3015.66	2927.10	2813.07	2710.11	2582.25
135.0	3546.51	3476.76	3397.05	3290.77	3195.01	3098.14	3003.49	2875.07	2775.43
180.0	3701.50	3632.86	3561.45	3481.19	3368.82	3265.86	3172.31	3078.21	2948.13
225.0	3606.84	3526.02	3448.53	3360.52	3248.70	3162.35	3043.89	2938.72	2841.30
270.0	3629.54	3563.11	3476.21	3395.39	3311.25	3185.60	3098.69	3011.79	2902.19
315.0	3459.05	3386.53	3286.34	3203.31	3118.07	3014.56	2927.10	2837.98	2741.11
360.0	3309.59	3212.72	3135.23	3052.75	2952.56	2869.53	2780.41	2686.31	2562.87

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2461.02	2360.28	2244.59	2095.13	1977.23	1858.22	1709.87	1586.99	1456.35
45.0	2594.98	2468.22	2365.81	2227.98	2110.63	1996.05	1884.79	1735.89	1611.34
90.0	2478.73	2372.46	2236.29	2123.36	2010.44	1863.76	1744.75	1621.31	1489.57
135.0	2672.47	2568.41	2433.34	2322.08	2206.95	2085.72	1942.36	1821.13	1672.79
180.0	2857.91	2751.07	2637.60	2499.22	2393.49	2279.46	2131.11	2013.21	1869.84
225.0	2720.63	2617.67	2514.71	2400.69	2263.96	2148.83	2026.50	1915.23	1774.64
270.0	2804.21	2710.67	2576.16	2467.11	2360.83	2244.59	2102.88	1982.77	1870.40
315.0	2622.65	2519.14	2412.86	2301.05	2155.47	2039.78	1924.64	1781.83	1668.91
360.0	2461.02	2360.28	2244.59	2095.13	1977.23	1858.22	1709.87	1586.99	1456.35

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1078.23	1078.23	1009.98	845.25	718.43	600.37	492.98	376.29	294.04
45.0	1475.17	1336.24	1165.75	1028.47	893.96	760.00	604.46	494.31	394.12
90.0	1071.42	1071.42	1037.44	901.99	737.92	613.59	501.61	376.79	290.33
135.0	1543.26	1405.98	1238.26	1102.64	967.03	834.18	676.97	562.39	456.11
180.0	1757.48	1641.79	1518.90	1352.84	1216.67	1080.50	941.01	774.40	651.51
225.0	1661.72	1540.49	1271.47	1098.16	1064.39	930.44	797.15	671.66	527.96
270.0	1758.58	1620.75	1491.78	1323.50	1188.44	1055.04	887.87	760.56	640.99
315.0	1517.24	1387.71	1081.17	1081.17	948.15	818.07	695.96	584.81	460.15
360.0	1078.23	1078.23	1009.98	845.25	718.43	600.37	492.98	376.29	294.04

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	226.06	176.47	138.33	121.28	107.44	93.71	84.58	74.95	68.36
45.0	285.07	285.07	202.37	132.07	116.91	101.74	92.00	83.31	75.89
90.0	207.19	163.57	137.22	121.78	105.95	95.93	87.02	79.21	70.52
135.0	360.35	296.70	296.70	152.78	126.70	112.64	101.02	89.17	81.04
180.0	538.04	434.53	323.27	283.96	283.96	141.87	122.50	104.73	93.71
225.0	425.56	335.17	256.62	181.56	142.70	120.17	105.89	91.22	82.09
270.0	507.04	409.06	322.71	283.96	283.96	140.54	120.62	105.78	91.39
315.0	370.54	292.27	226.40	167.83	139.71	117.74	103.79	92.77	81.43
360.0	226.06	176.47	138.33	121.28	107.44	93.71	84.58	74.95	68.36

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	62.72	56.29	52.03	48.27	45.17	41.79	39.41	37.36	35.48
45.0	67.75	62.16	57.01	52.53	47.83	44.73	42.07	39.08	37.20
90.0	64.54	59.01	54.36	49.54	46.16	42.73	40.30	38.14	35.81
135.0	72.46	66.31	61.00	56.02	50.93	47.49	44.67	42.07	39.30
180.0	84.41	76.61	68.31	62.60	57.51	53.19	48.55	45.33	42.73
225.0	72.62	66.31	60.78	54.74	50.37	46.77	42.95	40.46	38.25
270.0	82.20	74.62	68.20	61.17	56.13	50.81	47.22	44.06	40.85
315.0	73.95	67.64	62.05	55.80	51.59	47.94	44.89	41.52	39.19
360.0	62.72	56.29	52.03	48.27	45.17	41.79	39.41	37.36	35.48
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	33.43	31.94	30.56	28.95	27.79	26.79	25.52	24.69	23.86
45.0	35.32	33.27	31.77	30.50	28.95	27.90	26.85	25.79	24.63
90.0	34.10	32.44	31.05	29.39	28.29	27.23	26.18	25.08	24.19
135.0	37.36	35.48	33.43	31.99	30.72	29.23	28.06	26.96	25.74
180.0	39.91	37.86	35.98	33.99	32.49	31.11	29.56	28.40	27.34
225.0	36.31	34.15	32.55	31.16	29.89	28.40	27.29	26.35	25.19
270.0	38.58	36.48	34.71	32.55	31.16	29.84	28.62	27.18	26.18
315.0	36.98	34.65	32.99	31.16	29.78	28.56	27.12	26.13	25.13
360.0	33.43	31.94	30.56	28.95	27.79	26.79	25.52	24.69	23.86
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	22.86	22.14	21.37	20.70	20.09	19.32	18.71	18.16	17.38
45.0	23.86	23.08	22.25	21.42	20.70	20.09	19.32	18.71	17.99
90.0	23.41	22.42	21.70	21.03	20.15	19.60	18.93	18.27	17.66
135.0	24.91	24.02	23.19	22.25	21.59	20.92	20.26	19.43	18.76
180.0	26.13	25.13	24.24	23.53	22.53	21.81	21.09	20.43	19.65
225.0	24.30	23.30	22.53	21.81	21.15	20.37	19.71	19.15	18.54
270.0	25.19	24.13	23.30	22.36	21.64	20.98	20.37	19.54	18.99
315.0	24.24	23.14	22.47	21.70	21.03	20.20	19.60	18.99	18.43
360.0	22.86	22.14	21.37	20.70	20.09	19.32	18.71	18.16	17.38
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	16.83	16.38	15.72	15.22	14.56	14.12	13.67	13.23	12.73
45.0	17.44	16.88	16.44	15.72	15.28	14.78	14.34	13.67	13.23
90.0	17.10	16.38	15.89	15.33	14.78	14.17	13.73	13.28	12.62
135.0	18.21	17.49	16.88	16.22	15.67	15.17	14.67	14.06	13.56
180.0	19.04	18.27	17.71	17.16	16.50	15.94	15.44	14.95	14.28
225.0	17.88	17.33	16.88	16.27	15.61	15.17	14.56	14.06	13.56
270.0	18.43	17.82	17.16	16.66	16.11	15.61	14.95	14.45	13.89
315.0	17.77	17.16	16.50	15.94	15.44	14.78	14.34	13.84	13.40
360.0	16.83	16.38	15.72	15.22	14.56	14.12	13.67	13.23	12.73
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	12.29	11.90	11.62	11.29	11.07	10.74	10.41	10.13	10.07
45.0	12.73	12.23	11.85	11.51	11.18	10.90	10.63	10.30	10.13
90.0	12.23	11.85	11.51	11.24	10.96	10.68	10.46	10.30	10.35
135.0	13.01	12.45	12.01	11.73	11.40	11.13	10.79	10.46	10.30
180.0	13.84	13.23	12.68	12.29	11.85	11.51	11.24	10.90	10.63
225.0	13.01	12.68	12.23	11.79	11.46	11.13	10.85	10.57	10.30
270.0	13.45	12.90	12.45	12.07	11.62	11.35	10.96	10.74	10.46
315.0	12.84	12.40	12.01	11.62	11.35	11.07	10.85	10.46	10.24
360.0	12.29	11.90	11.62	11.29	11.07	10.74	10.41	10.13	10.07

Intensity data(cd)

C/γ(°)	90.0
0.0	10.07
45.0	10.24
90.0	10.41
135.0	10.41
180.0	10.30
225.0	10.07
270.0	10.24
315.0	10.02
360.0	10.07