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NATA

Client:

LumCAT: 2-2646-L

Luminaire: 92.70.412.00

Report No: 20231013-B003

Ballast type: AC

Test No: 20231013-C003

Voltage(V): 34.030

LampCAT: LUMINUS CXM-14-AC40

Current(A): 0.530

Lamp flux(lm): 2320.0

Power (W): 18.030

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2118.49, Efficiency(%): 91.32% , Luminous Efficacy(lm/W): 117.50

Central intensity(cd): 3673.403, Maximum intensity(cd): 3673.403

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=46.8

[C90/270]Total=46.8

Field angle(10%Imax): [C0/180]Total=68.2

[C90/270]Total=68.2

Maximum s/h(1/2): C0_180=0.74 C90_270=0.74

Maximum s/h(1/4): C0_180=0.71 C90_270=0.71

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 91.32%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.124%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3673.403	0.000	0	0.00%	0.00%
1.0	3662.609	3.510	3.51	0.15%	0.17%
2.0	3642.890	10.486	13.996	0.45%	0.66%
3.0	3608.294	17.342	31.338	0.75%	1.48%
4.0	3564.149	24.008	55.347	1.03%	2.61%
5.0	3508.242	30.425	85.772	1.31%	4.05%
6.0	3452.127	36.579	122.35	1.58%	5.78%
7.0	3393.937	42.493	164.844	1.83%	7.78%
8.0	3329.242	48.117	212.96	2.07%	10.05%
9.0	3269.806	53.482	266.442	2.31%	12.58%
10.0	3200.822	58.557	324.999	2.52%	15.34%
11.0	3137.926	63.337	388.336	2.73%	18.33%
12.0	3064.652	67.803	456.139	2.92%	21.53%
13.0	2991.378	71.870	528.009	3.10%	24.92%
14.0	2912.153	75.565	603.573	3.26%	28.49%
15.0	2827.185	78.792	682.366	3.40%	32.21%
16.0	2732.046	81.458	763.824	3.51%	36.06%
17.0	2632.686	83.543	847.367	3.60%	40.00%
18.0	2524.678	85.034	932.401	3.67%	44.01%
19.0	2405.529	85.776	1018.176	3.70%	48.06%
20.0	2286.588	85.879	1104.055	3.70%	52.12%
21.0	2156.576	85.318	1189.373	3.68%	56.14%
22.0	2018.677	83.903	1273.276	3.62%	60.10%
23.0	1890.049	82.016	1355.292	3.54%	63.97%
24.0	1743.984	79.453	1434.745	3.42%	67.72%
25.0	1583.182	75.652	1510.397	3.26%	71.30%
26.0	1411.593	70.692	1581.089	3.05%	74.63%
27.0	1233.749	64.719	1645.808	2.79%	77.69%
28.0	1120.246	59.598	1705.406	2.57%	80.50%
29.0	972.556	54.754	1760.16	2.36%	83.09%
30.0	832.165	48.727	1808.887	2.10%	85.39%
31.0	688.433	42.316	1851.203	1.82%	87.38%
32.0	571.664	36.100	1887.304	1.56%	89.09%
33.0	461.068	30.425	1917.728	1.31%	90.52%
34.0	372.108	25.214	1942.943	1.09%	91.71%
35.0	297.906	20.808	1963.751	0.90%	92.70%
36.0	249.506	17.430	1981.18	0.75%	93.52%
37.0	191.427	14.381	1995.561	0.62%	94.20%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	165.763	11.923	2007.484	0.51%	94.76%
39.0	112.029	9.482	2016.965	0.41%	95.21%
40.0	90.607	7.067	2024.033	0.30%	95.54%
41.0	73.406	5.840	2029.873	0.25%	95.82%
42.0	60.854	4.878	2034.751	0.21%	96.05%
43.0	52.192	4.188	2038.939	0.18%	96.25%
44.0	46.068	3.709	2042.647	0.16%	96.42%
45.0	41.079	3.349	2045.996	0.14%	96.58%
46.0	37.149	3.059	2049.056	0.13%	96.72%
47.0	34.125	2.835	2051.89	0.12%	96.86%
48.0	31.365	2.647	2054.538	0.11%	96.98%
49.0	29.241	2.489	2057.027	0.11%	97.10%
50.0	27.220	2.354	2059.381	0.10%	97.21%
51.0	25.726	2.240	2061.621	0.10%	97.32%
52.0	24.376	2.150	2063.771	0.09%	97.42%
53.0	23.159	2.068	2065.838	0.09%	97.51%
54.0	22.114	1.995	2067.834	0.09%	97.61%
55.0	21.180	1.933	2069.766	0.08%	97.70%
56.0	20.432	1.880	2071.647	0.08%	97.79%
57.0	19.706	1.835	2073.482	0.08%	97.88%
58.0	19.076	1.793	2075.275	0.08%	97.96%
59.0	18.495	1.756	2077.032	0.08%	98.04%
60.0	17.948	1.722	2078.754	0.07%	98.12%
61.0	17.492	1.691	2080.445	0.07%	98.20%
62.0	17.028	1.663	2082.108	0.07%	98.28%
63.0	16.620	1.636	2083.745	0.07%	98.36%
64.0	16.205	1.611	2085.355	0.07%	98.44%
65.0	15.859	1.587	2086.942	0.07%	98.51%
66.0	15.478	1.564	2088.506	0.07%	98.58%
67.0	15.125	1.539	2090.045	0.07%	98.66%
68.0	14.793	1.516	2091.56	0.07%	98.73%
69.0	14.454	1.492	2093.052	0.06%	98.80%
70.0	14.143	1.469	2094.521	0.06%	98.87%
71.0	13.797	1.444	2095.965	0.06%	98.94%
72.0	13.458	1.417	2097.382	0.06%	99.00%
73.0	13.181	1.393	2098.775	0.06%	99.07%
74.0	12.877	1.370	2100.145	0.06%	99.13%
75.0	12.565	1.344	2101.489	0.06%	99.20%

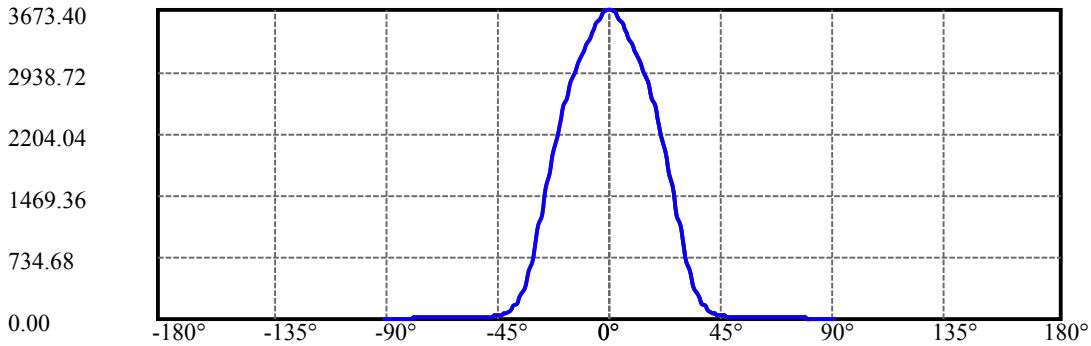
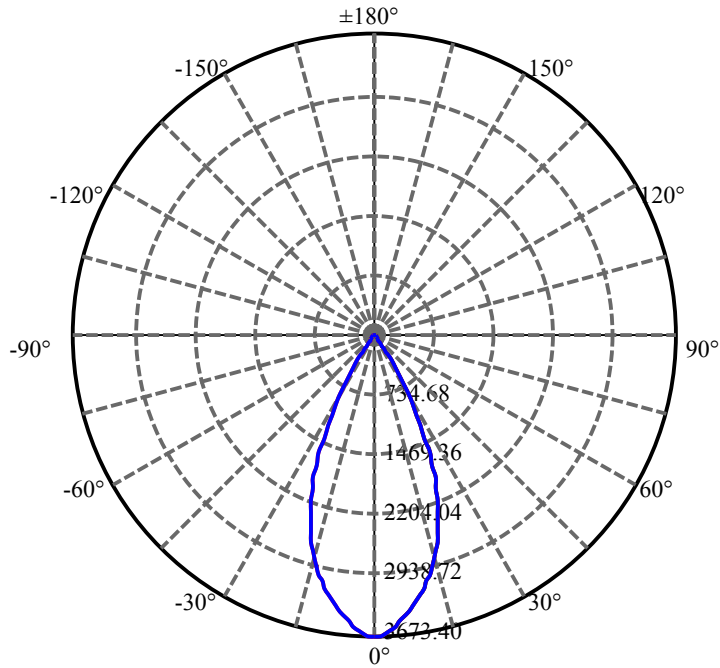
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	12.247	1.317	2102.806	0.06%	99.26%
77.0	11.943	1.290	2104.096	0.06%	99.32%
78.0	11.624	1.262	2105.358	0.05%	99.38%
79.0	11.334	1.234	2106.591	0.05%	99.44%
80.0	11.043	1.206	2107.798	0.05%	99.50%
81.0	10.759	1.179	2108.977	0.05%	99.55%
82.0	10.483	1.152	2110.129	0.05%	99.61%
83.0	10.199	1.124	2111.253	0.05%	99.66%
84.0	9.964	1.098	2112.351	0.05%	99.71%
85.0	9.721	1.074	2113.426	0.05%	99.76%
86.0	9.507	1.051	2114.477	0.05%	99.81%
87.0	9.313	1.030	2115.507	0.04%	99.86%
88.0	9.133	1.010	2116.517	0.04%	99.91%
89.0	8.953	0.991	2117.509	0.04%	99.95%
90.0	8.891	0.978	2118.487	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1808.89	77.97%	85.39%
0-40	2024.03	87.24%	95.54%
0-60	2078.75	89.60%	98.12%
0-90	2117.51	91.27%	99.95%
0-120	2117.51	91.27%	99.95%
0-180	2118.49	91.32%	100.00%
60-90	38.75	1.67%	1.83%
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%
0-27.82	1694.79	73.05%	80.00%

ZONAL LUMEN SUMMARY

0-10	325.00
10-20	779.06
20-30	704.83
30-40	215.15
40-50	35.35
50-60	19.37
60-70	15.77
70-80	13.28
80-90	9.71
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: —————

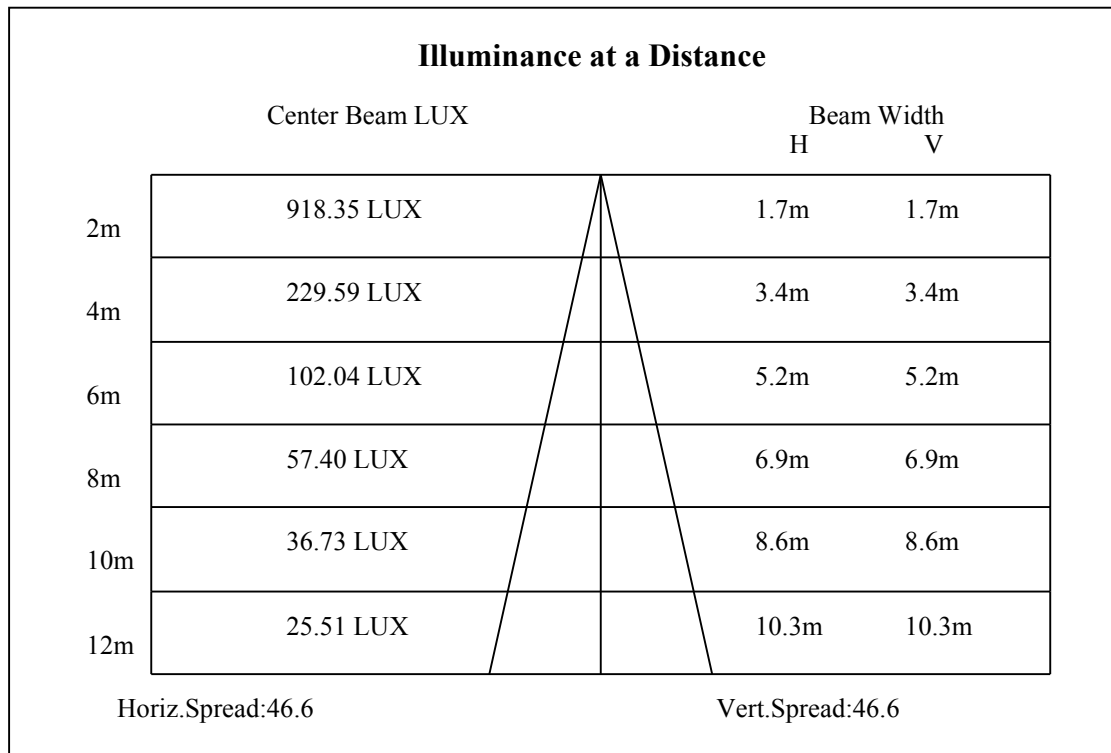
C90/C270: —————

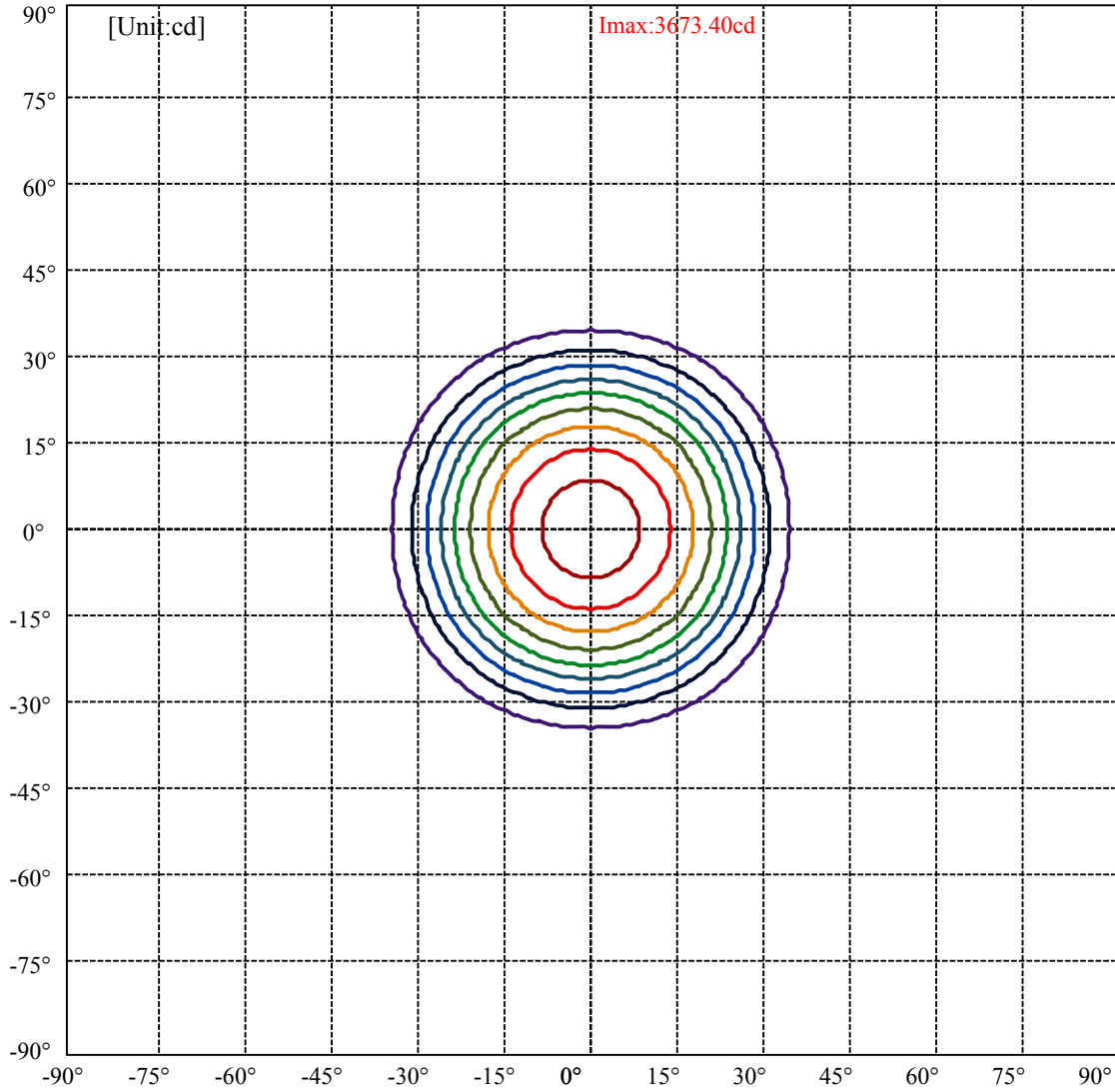
Field angle(10%Imax):C0/180Left:34.1 Right:34.1

:C90/270Left:34.1 Right:34.1

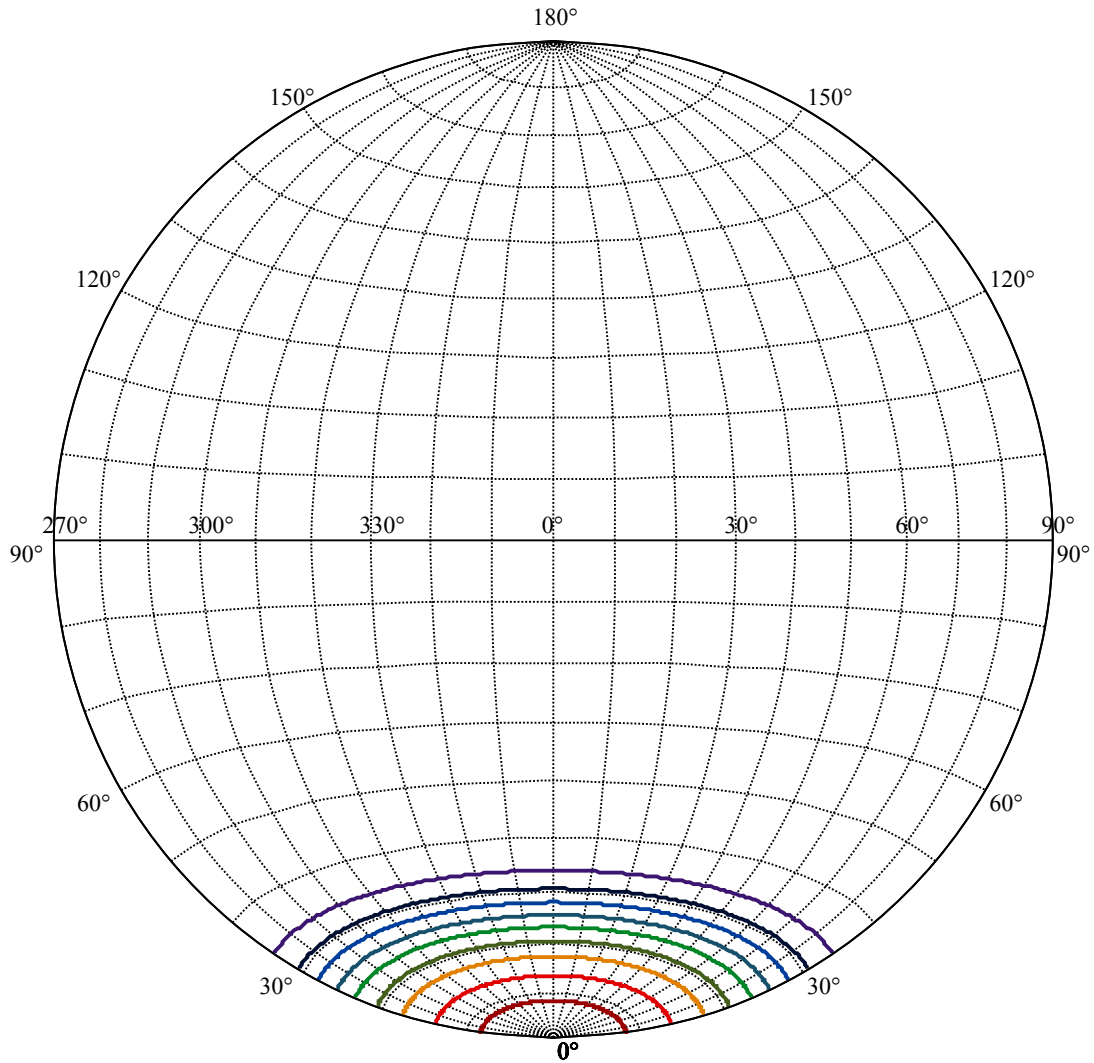
Beam Angle(50%Imax):C0/180Left:23.4 Right:23.4

:C90/270Left:23.4 Right:23.4





(10%Imax) 367.34	—
(20%Imax) 734.681	—
(30%Imax) 1102.02	—
(40%Imax) 1469.36	—
(50%Imax) 1836.7	—
(60%Imax) 2204.04	—
(70%Imax) 2571.38	—
(80%Imax) 2938.72	—
(90%Imax) 3306.06	—



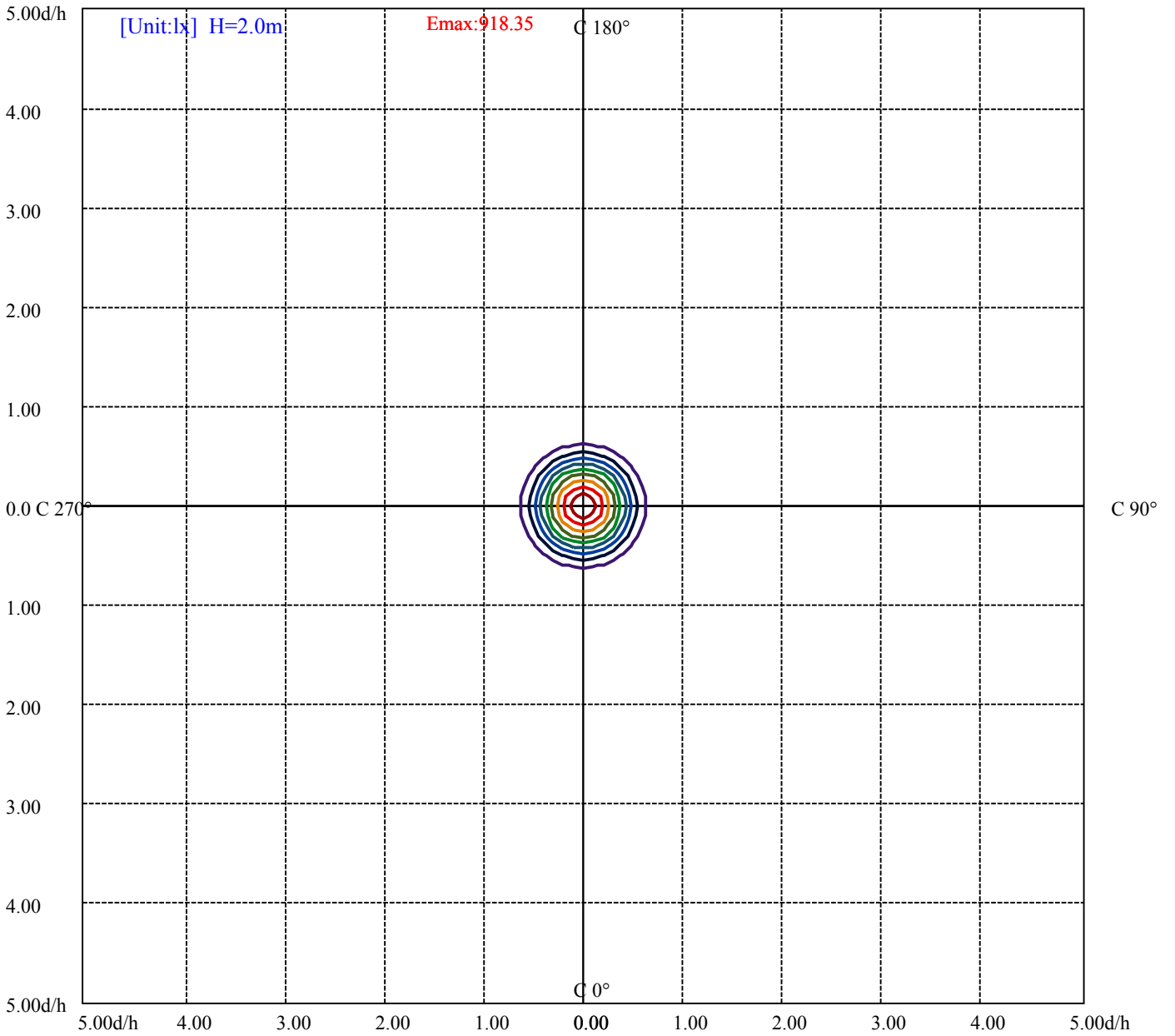
House

[Unit:cd]

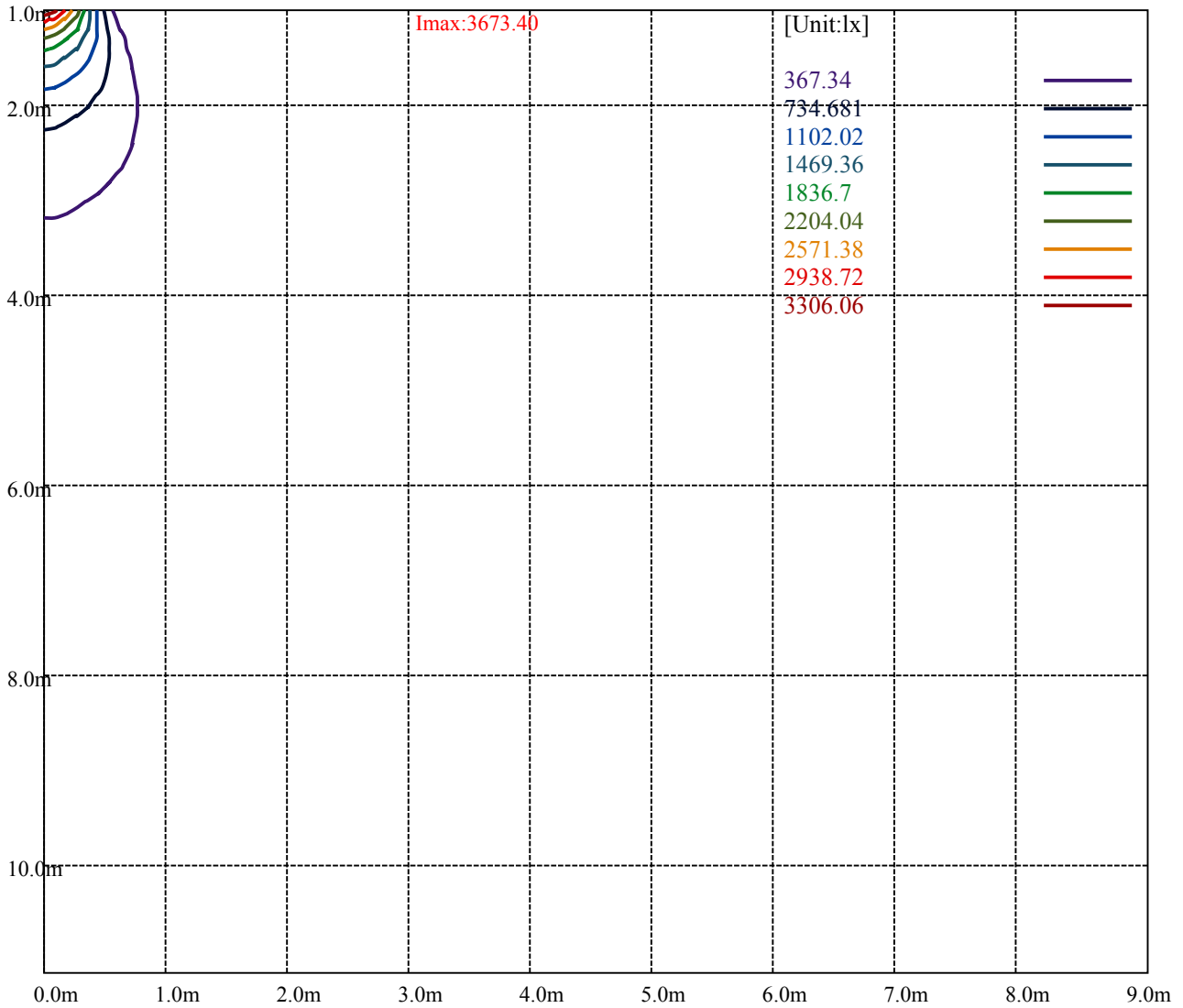
Road

Imax:3673.40

(10%Imax)	367.34	—
(20%Imax)	734.681	—
(30%Imax)	1102.02	—
(40%Imax)	1469.36	—
(50%Imax)	1836.7	—
(60%Imax)	2204.04	—
(70%Imax)	2571.38	—
(80%Imax)	2938.72	—
(90%Imax)	3306.06	—



(10%Emax)	91.835	—
(20%Emax)	183.67	—
(30%Emax)	275.505	—
(40%Emax)	367.34	—
(50%Emax)	459.175	—
(60%Emax)	551.01	—
(70%Emax)	642.845	—
(80%Emax)	734.68	—
(90%Emax)	826.515	—



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

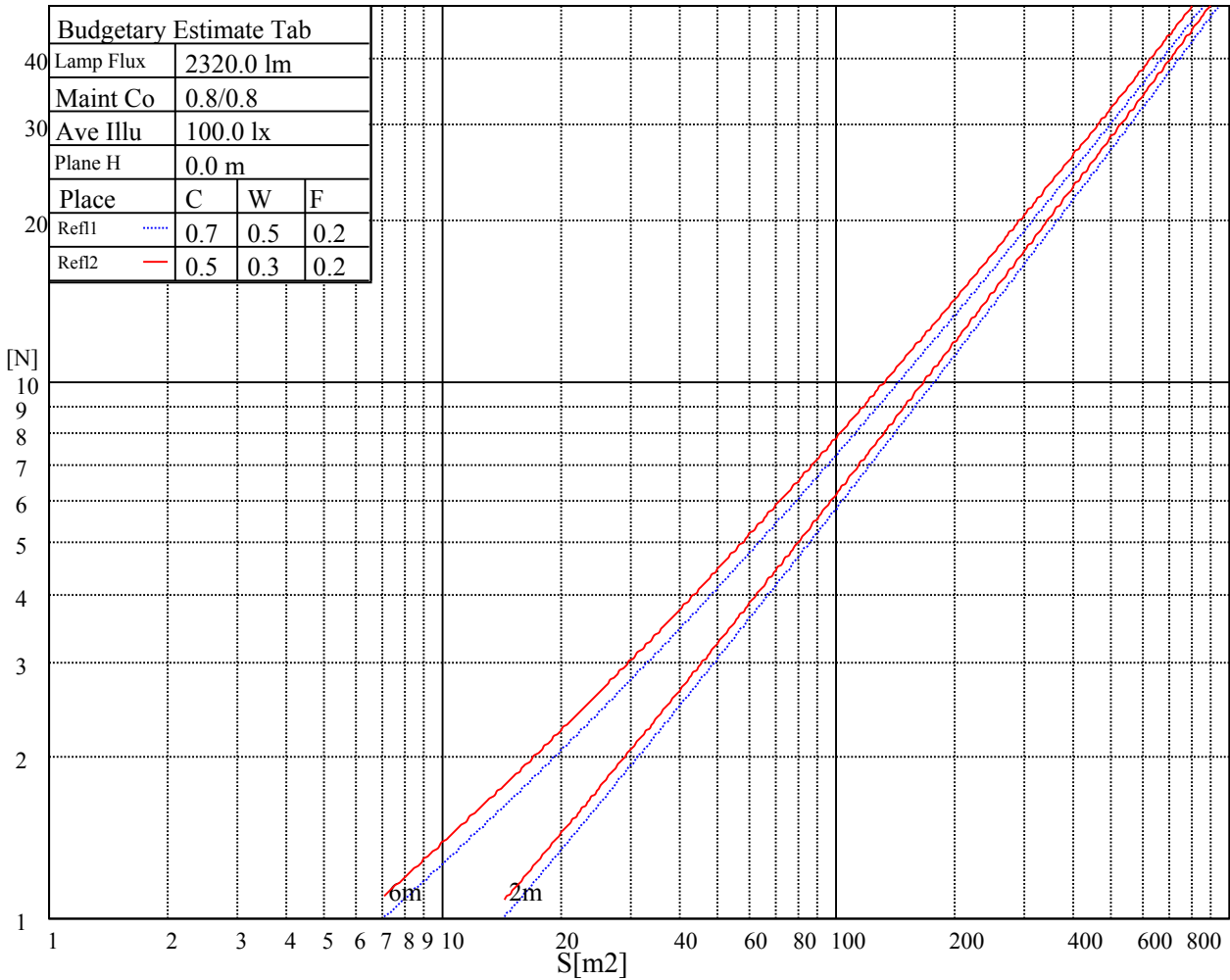
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

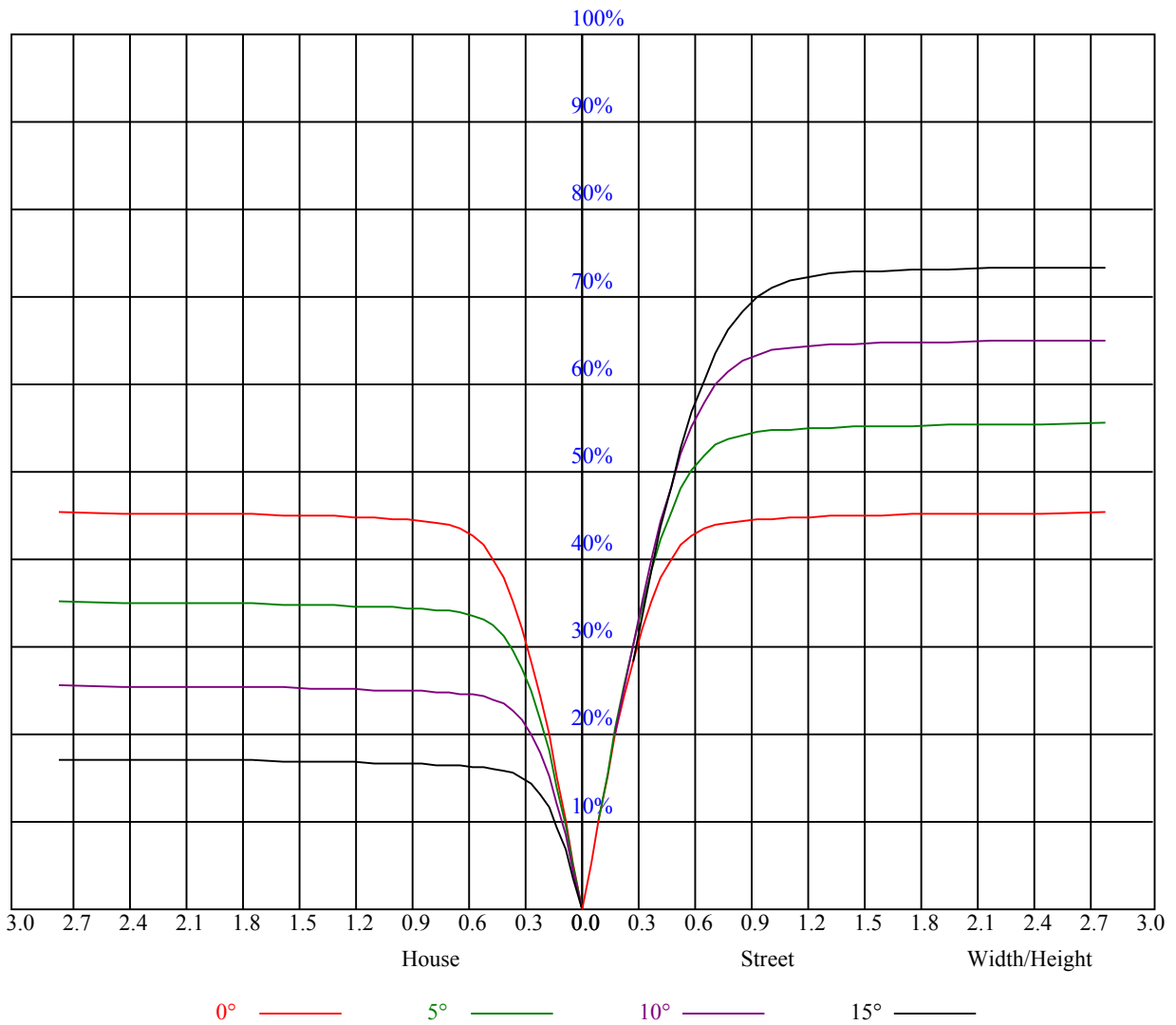


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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	1.09	1.09	1.09	1.06	1.06	1.06	1.01	1.01	1.01	0.97	0.97	0.97	0.93	0.93	0.93	0.91
1	1.01	0.99	0.97	0.99	0.98	0.96	0.96	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	0.90	0.88	0.91	0.88	0.86	0.88	0.86	0.84	0.85	0.84	0.82	0.81
3	0.90	0.85	0.82	0.88	0.84	0.81	0.86	0.83	0.80	0.84	0.81	0.79	0.82	0.80	0.78	0.76
4	0.85	0.80	0.76	0.84	0.79	0.76	0.82	0.78	0.75	0.80	0.77	0.74	0.78	0.76	0.73	0.72
5	0.80	0.75	0.72	0.79	0.75	0.71	0.78	0.74	0.71	0.76	0.73	0.70	0.75	0.72	0.70	0.68
6	0.76	0.71	0.68	0.75	0.71	0.67	0.74	0.70	0.67	0.73	0.69	0.66	0.72	0.68	0.66	0.65
7	0.72	0.67	0.64	0.72	0.67	0.64	0.71	0.66	0.63	0.69	0.66	0.63	0.69	0.65	0.63	0.62
8	0.69	0.64	0.61	0.68	0.64	0.60	0.67	0.63	0.60	0.66	0.63	0.60	0.66	0.62	0.60	0.59
9	0.66	0.61	0.58	0.65	0.61	0.57	0.64	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.57	0.56
10	0.63	0.58	0.55	0.62	0.58	0.55	0.62	0.58	0.55	0.61	0.57	0.54	0.60	0.57	0.54	0.53



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	3666.07	3657.77	3631.75	3580.27	3534.88	3458.49	3401.48	3347.23	3292.43
45.0	3683.78	3662.75	3642.82	3597.43	3552.04	3502.22	3435.24	3378.23	3309.04
90.0	3656.66	3607.39	3565.88	3514.40	3455.73	3379.34	3322.32	3270.29	3213.83
135.0	3687.10	3658.87	3614.59	3578.06	3502.22	3444.65	3385.43	3327.30	3259.77
180.0	3666.07	3684.34	3678.25	3642.27	3603.52	3562.00	3507.20	3452.96	3373.80
225.0	3683.78	3682.68	3657.21	3632.86	3596.88	3539.86	3495.03	3415.87	3362.18
270.0	3656.66	3681.01	3679.91	3666.62	3662.19	3610.16	3571.97	3521.04	3441.33
315.0	3687.10	3666.07	3672.71	3654.44	3605.73	3569.20	3498.35	3438.57	3381.55
360.0	3666.07	3657.77	3631.75	3580.27	3534.88	3458.49	3401.48	3347.23	3292.43
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3214.38	3148.51	3079.87	3011.24	2909.39	2830.23	2745.54	2622.65	2514.71
45.0	3259.77	3183.94	3121.94	3056.63	2976.36	2906.62	2831.34	2732.25	2655.87
90.0	3133.01	3072.68	3012.34	2929.87	2858.46	2757.72	2667.49	2574.50	2475.97
135.0	3212.17	3141.87	3083.20	3001.83	2935.95	2862.33	2772.66	2685.76	2563.43
180.0	3316.79	3260.88	3195.01	3115.85	3055.52	2991.31	2898.87	2819.71	2728.93
225.0	3305.72	3224.90	3160.14	3099.80	3032.27	2940.38	2859.57	2774.88	2684.10
270.0	3385.43	3327.86	3266.42	3180.06	3110.32	3049.98	2970.27	2862.89	2785.39
315.0	3331.18	3245.94	3184.49	3121.94	3052.75	2958.65	2871.74	2783.73	2653.10
360.0	3214.38	3148.51	3079.87	3011.24	2909.39	2830.23	2745.54	2622.65	2514.71
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2403.45	2254.00	2127.24	1958.41	1819.47	1675.55	1532.19	1279.78	1097.83
45.0	2555.12	2444.97	2302.71	2184.81	2059.15	1932.95	1759.14	1617.43	1472.96
90.0	2343.67	2232.41	2115.61	1991.62	1823.35	1686.07	1544.37	1405.98	1069.87
135.0	2453.83	2342.56	2205.84	2090.15	1975.02	1857.11	1696.03	1560.42	1419.27
180.0	2624.87	2525.23	2428.36	2298.28	2188.13	2067.46	1957.30	1791.80	1650.09
225.0	2575.05	2469.88	2363.60	2219.13	2097.35	1967.82	1792.90	1651.75	1510.60
270.0	2693.51	2572.84	2469.88	2357.51	2200.31	2073.55	1946.79	1774.08	1631.82
315.0	2547.93	2402.35	2279.46	2152.70	1986.64	1859.88	1723.16	1584.22	1440.30
360.0	2403.45	2254.00	2127.24	1958.41	1819.47	1675.55	1532.19	1279.78	1097.83
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1061.13	914.22	777.33	626.88	520.27	428.10	331.79	267.97	214.11
45.0	1284.76	1131.98	942.67	799.86	670.89	557.41	436.74	355.92	286.73
90.0	1069.87	925.40	754.64	632.30	523.53	406.90	329.52	265.92	201.43
135.0	1274.79	1095.45	958.72	826.98	674.76	564.05	445.04	365.33	295.03
180.0	1516.69	1377.75	1191.21	1047.29	866.28	731.22	610.00	479.92	390.24
225.0	1101.26	1101.26	1028.58	877.63	702.94	580.55	475.82	386.76	296.97
270.0	1486.80	1341.22	1158.00	1012.97	869.61	736.20	587.86	488.22	401.87
315.0	1074.69	1074.69	969.30	833.40	679.19	568.87	471.78	366.83	296.86
360.0	1061.13	914.22	777.33	626.88	520.27	428.10	331.79	267.97	214.11
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	161.96	128.97	103.07	79.32	65.54	55.63	47.05	41.90	37.97
45.0	286.73	168.83	134.56	108.27	88.29	70.08	59.84	51.04	45.72
90.0	161.52	129.58	103.79	80.37	67.09	57.40	50.43	43.73	39.69
135.0	295.03	170.43	133.62	105.89	85.02	66.81	56.79	49.60	44.34
180.0	316.07	284.52	284.52	150.84	120.06	96.20	74.73	62.83	54.30
225.0	238.24	190.86	145.52	117.96	96.59	77.22	65.82	57.29	49.21
270.0	312.75	281.20	281.20	148.96	118.35	94.99	73.95	62.05	53.53
315.0	223.74	177.02	139.82	104.62	83.92	68.92	58.23	49.10	43.78
360.0	161.96	128.97	103.07	79.32	65.54	55.63	47.05	41.90	37.97

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	34.76	31.55	29.45	27.68	26.13	24.47	23.36	22.14	21.26
45.0	41.52	37.31	34.49	32.05	29.50	27.73	26.29	25.02	23.58
90.0	35.54	32.77	30.50	28.17	26.63	25.24	23.80	22.81	21.92
135.0	39.25	35.98	32.60	30.28	28.34	26.24	24.91	23.75	22.75
180.0	46.39	41.68	37.97	34.15	31.55	28.95	27.23	25.74	24.47
225.0	44.23	40.13	36.87	33.49	31.22	29.34	27.62	25.74	24.47
270.0	47.27	41.46	37.75	34.71	32.16	29.45	27.68	26.13	24.47
315.0	39.69	36.31	33.38	30.39	28.40	26.35	24.91	23.69	22.36
360.0	34.76	31.55	29.45	27.68	26.13	24.47	23.36	22.14	21.26
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	20.48	19.60	19.04	18.49	17.99	17.38	16.99	16.61	16.27
45.0	22.64	21.75	20.92	20.04	19.43	18.88	18.16	17.66	17.21
90.0	21.09	20.20	19.60	18.99	18.49	17.88	17.44	16.99	16.55
135.0	21.59	20.76	20.09	19.48	18.76	18.32	17.82	17.44	16.94
180.0	23.08	22.09	21.26	20.48	19.82	19.10	18.54	18.05	17.49
225.0	23.14	22.20	21.37	20.43	19.76	19.15	18.43	17.93	17.49
270.0	23.41	22.20	21.37	20.54	19.71	19.15	18.60	18.10	17.49
315.0	21.48	20.65	19.82	19.21	18.65	18.10	17.60	17.16	16.77
360.0	20.48	19.60	19.04	18.49	17.99	17.38	16.99	16.61	16.27
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	15.83	15.50	15.17	14.78	14.50	14.12	13.78	13.56	13.28
45.0	16.72	16.38	16.05	15.61	15.22	14.95	14.61	14.23	13.89
90.0	16.22	15.78	15.44	15.17	14.83	14.50	14.17	13.84	13.56
135.0	16.61	16.16	15.83	15.50	15.11	14.78	14.50	14.23	13.78
180.0	17.05	16.61	16.22	15.89	15.44	15.17	14.83	14.50	14.17
225.0	17.05	16.55	16.22	15.83	15.44	15.06	14.72	14.39	13.95
270.0	17.10	16.72	16.33	15.89	15.55	15.17	14.78	14.50	14.12
315.0	16.38	15.94	15.61	15.17	14.89	14.61	14.23	13.89	13.62
360.0	15.83	15.50	15.17	14.78	14.50	14.12	13.78	13.56	13.28
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	12.90	12.68	12.34	12.12	11.79	11.51	11.24	10.96	10.63
45.0	13.56	13.28	12.95	12.57	12.23	11.96	11.68	11.29	11.07
90.0	13.17	12.90	12.62	12.29	12.01	11.68	11.35	11.07	10.79
135.0	13.51	13.23	12.95	12.62	12.34	12.07	11.68	11.40	11.13
180.0	13.84	13.56	13.28	12.95	12.62	12.34	11.96	11.68	11.40
225.0	13.67	13.28	12.95	12.68	12.29	11.96	11.68	11.40	11.13
270.0	13.78	13.51	13.23	12.90	12.62	12.23	11.96	11.62	11.29
315.0	13.23	13.01	12.68	12.40	12.07	11.79	11.46	11.24	10.90
360.0	12.90	12.68	12.34	12.12	11.79	11.51	11.24	10.96	10.63
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	10.41	10.19	9.91	9.74	9.52	9.30	9.13	8.97	8.91
45.0	10.79	10.46	10.19	9.96	9.74	9.47	9.24	9.08	8.86
90.0	10.52	10.24	10.02	9.80	9.52	9.30	9.13	8.91	8.86
135.0	10.79	10.57	10.24	10.02	9.74	9.52	9.35	9.13	8.91
180.0	11.07	10.79	10.46	10.19	9.96	9.74	9.52	9.35	9.19
225.0	10.79	10.52	10.24	9.96	9.74	9.52	9.35	9.19	8.97
270.0	11.02	10.74	10.41	10.13	9.85	9.69	9.47	9.30	9.08
315.0	10.68	10.35	10.13	9.91	9.69	9.52	9.30	9.13	8.86
360.0	10.41	10.19	9.91	9.74	9.52	9.30	9.13	8.97	8.91

Intensity data(cd)

C/γ(°)	90.0
0.0	8.91
45.0	8.86
90.0	8.86
135.0	8.91
180.0	8.97
225.0	8.91
270.0	8.86
315.0	8.86
360.0	8.91