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NATA

Client:

LumCAT: 2-2645-L

Luminaire: 92.70.412.00

Report No: 20231013-B008

Ballast type: AC

Test No: 20231013-C008

Voltage(V): 34.140

LampCAT: LUMINUS CXM-14-AC40

Current(A): 0.530

Lamp flux(lm): 2320.0

Power (W): 18.094

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2179.04, Efficiency(%): 93.93% , Luminous Efficacy(lm/W): 120.43

Central intensity(cd): 4693.570, Maximum intensity(cd): 4693.570

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=39.8

[C90/270]Total=39.8

Field angle(10%Imax): [C0/180]Total=63.2

[C90/270]Total=63.2

Maximum s/h(1/2): C0_180=0.65 C90_270=0.65

Maximum s/h(1/4): C0_180=0.62 C90_270=0.62

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 93.93%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.180%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4693.570	0.000	0	0.00%	0.00%
1.0	4684.783	4.487	4.487	0.19%	0.21%
2.0	4662.572	13.416	17.904	0.58%	0.82%
3.0	4625.624	22.214	40.118	0.96%	1.84%
4.0	4576.982	30.804	70.922	1.33%	3.25%
5.0	4510.073	39.092	110.014	1.69%	5.05%
6.0	4435.207	47.010	157.024	2.03%	7.21%
7.0	4345.604	54.502	211.526	2.35%	9.71%
8.0	4248.181	61.504	273.03	2.65%	12.53%
9.0	4149.029	68.055	341.085	2.93%	15.65%
10.0	4039.083	74.099	415.184	3.19%	19.05%
11.0	3921.664	79.544	494.729	3.43%	22.70%
12.0	3794.420	84.348	579.077	3.64%	26.57%
13.0	3655.898	88.416	667.493	3.81%	30.63%
14.0	3508.588	91.705	759.198	3.95%	34.84%
15.0	3339.829	94.018	853.216	4.05%	39.16%
16.0	3156.124	95.184	948.4	4.10%	43.52%
17.0	2949.724	95.084	1043.484	4.10%	47.89%
18.0	2744.708	93.889	1137.373	4.05%	52.20%
19.0	2537.201	91.894	1229.267	3.96%	56.41%
20.0	2317.517	88.855	1318.122	3.83%	60.49%
21.0	2103.229	84.887	1403.01	3.66%	64.39%
22.0	1902.642	80.500	1483.509	3.47%	68.08%
23.0	1705.444	75.707	1559.217	3.26%	71.56%
24.0	1474.053	69.515	1628.732	3.00%	74.75%
25.0	1317.976	63.485	1692.216	2.74%	77.66%
26.0	1163.796	58.583	1750.799	2.53%	80.35%
27.0	1043.291	53.997	1804.796	2.33%	82.83%
28.0	898.652	49.166	1853.962	2.12%	85.08%
29.0	761.922	43.445	1897.407	1.87%	87.08%
30.0	642.856	37.929	1935.336	1.63%	88.82%
31.0	529.042	32.612	1967.948	1.41%	90.31%
32.0	428.970	27.446	1995.394	1.18%	91.57%
33.0	331.008	22.389	2017.783	0.97%	92.60%
34.0	260.508	17.901	2035.684	0.77%	93.42%
35.0	217.498	14.845	2050.529	0.64%	94.10%
36.0	158.208	11.963	2062.492	0.52%	94.65%
37.0	103.124	8.523	2071.015	0.37%	95.04%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	86.213	6.320	2077.335	0.27%	95.33%
39.0	75.032	5.504	2082.838	0.24%	95.59%
40.0	65.822	4.912	2087.751	0.21%	95.81%
41.0	58.772	4.437	2092.188	0.19%	96.01%
42.0	52.966	4.060	2096.247	0.17%	96.20%
43.0	47.646	3.727	2099.974	0.16%	96.37%
44.0	43.065	3.424	2103.398	0.15%	96.53%
45.0	39.564	3.176	2106.573	0.14%	96.67%
46.0	36.506	2.975	2109.548	0.13%	96.81%
47.0	33.856	2.798	2112.347	0.12%	96.94%
48.0	31.434	2.639	2114.986	0.11%	97.06%
49.0	29.427	2.499	2117.485	0.11%	97.18%
50.0	27.670	2.381	2119.866	0.10%	97.28%
51.0	26.072	2.274	2122.14	0.10%	97.39%
52.0	24.715	2.179	2124.319	0.09%	97.49%
53.0	23.477	2.096	2126.415	0.09%	97.59%
54.0	22.377	2.021	2128.436	0.09%	97.68%
55.0	21.380	1.953	2130.39	0.08%	97.77%
56.0	20.564	1.895	2132.285	0.08%	97.85%
57.0	19.740	1.843	2134.128	0.08%	97.94%
58.0	19.042	1.793	2135.921	0.08%	98.02%
59.0	18.391	1.750	2137.671	0.08%	98.10%
60.0	17.838	1.712	2139.383	0.07%	98.18%
61.0	17.333	1.678	2141.061	0.07%	98.26%
62.0	16.855	1.647	2142.709	0.07%	98.33%
63.0	16.392	1.617	2144.326	0.07%	98.41%
64.0	15.990	1.589	2145.915	0.07%	98.48%
65.0	15.610	1.564	2147.478	0.07%	98.55%
66.0	15.208	1.538	2149.016	0.07%	98.62%
67.0	14.835	1.511	2150.527	0.07%	98.69%
68.0	14.489	1.485	2152.012	0.06%	98.76%
69.0	14.191	1.463	2153.475	0.06%	98.83%
70.0	13.845	1.440	2154.915	0.06%	98.89%
71.0	13.534	1.415	2156.33	0.06%	98.96%
72.0	13.257	1.393	2157.723	0.06%	99.02%
73.0	12.960	1.371	2159.094	0.06%	99.08%
74.0	12.711	1.350	2160.444	0.06%	99.15%
75.0	12.455	1.330	2161.773	0.06%	99.21%

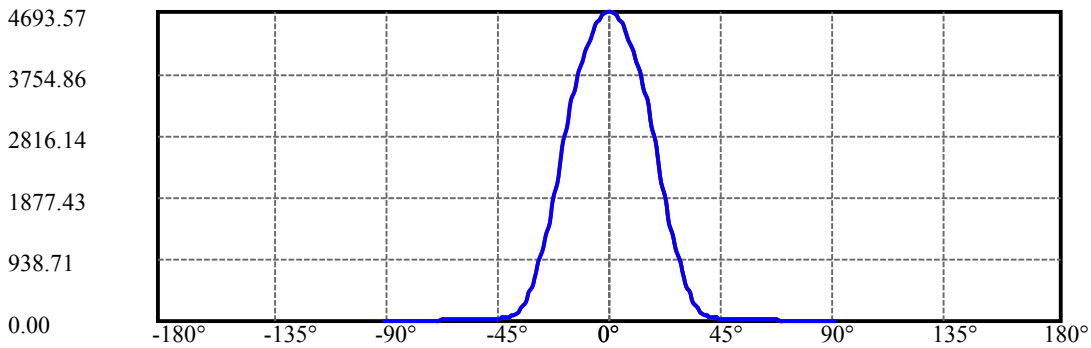
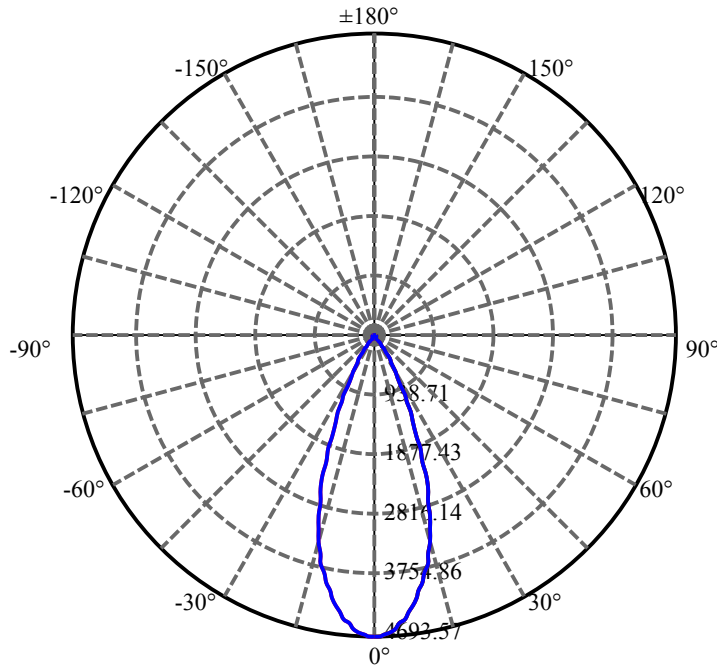
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	12.199	1.309	2163.082	0.06%	99.27%
77.0	11.915	1.286	2164.368	0.06%	99.33%
78.0	11.680	1.263	2165.631	0.05%	99.38%
79.0	11.403	1.240	2166.871	0.05%	99.44%
80.0	11.154	1.216	2168.087	0.05%	99.50%
81.0	10.898	1.193	2169.28	0.05%	99.55%
82.0	10.649	1.168	2170.448	0.05%	99.61%
83.0	10.406	1.145	2171.593	0.05%	99.66%
84.0	10.171	1.121	2172.714	0.05%	99.71%
85.0	9.977	1.100	2173.813	0.05%	99.76%
86.0	9.791	1.081	2174.894	0.05%	99.81%
87.0	9.611	1.062	2175.956	0.05%	99.86%
88.0	9.410	1.042	2176.998	0.04%	99.91%
89.0	9.292	1.025	2178.023	0.04%	99.95%
90.0	9.209	1.014	2179.037	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1935.34	83.42%	88.82%
0-40	2087.75	89.99%	95.81%
0-60	2139.38	92.22%	98.18%
0-90	2178.02	93.88%	99.95%
0-120	2178.02	93.88%	99.95%
0-180	2179.04	93.93%	100.00%
60-90	38.64	1.67%	1.77%
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%
0-25.87	1743.23	75.14%	80.00%

ZONAL LUMEN SUMMARY

0-10	415.18
10-20	902.94
20-30	617.21
30-40	152.42
40-50	32.12
50-60	19.52
60-70	15.53
70-80	13.17
80-90	9.94
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: —————

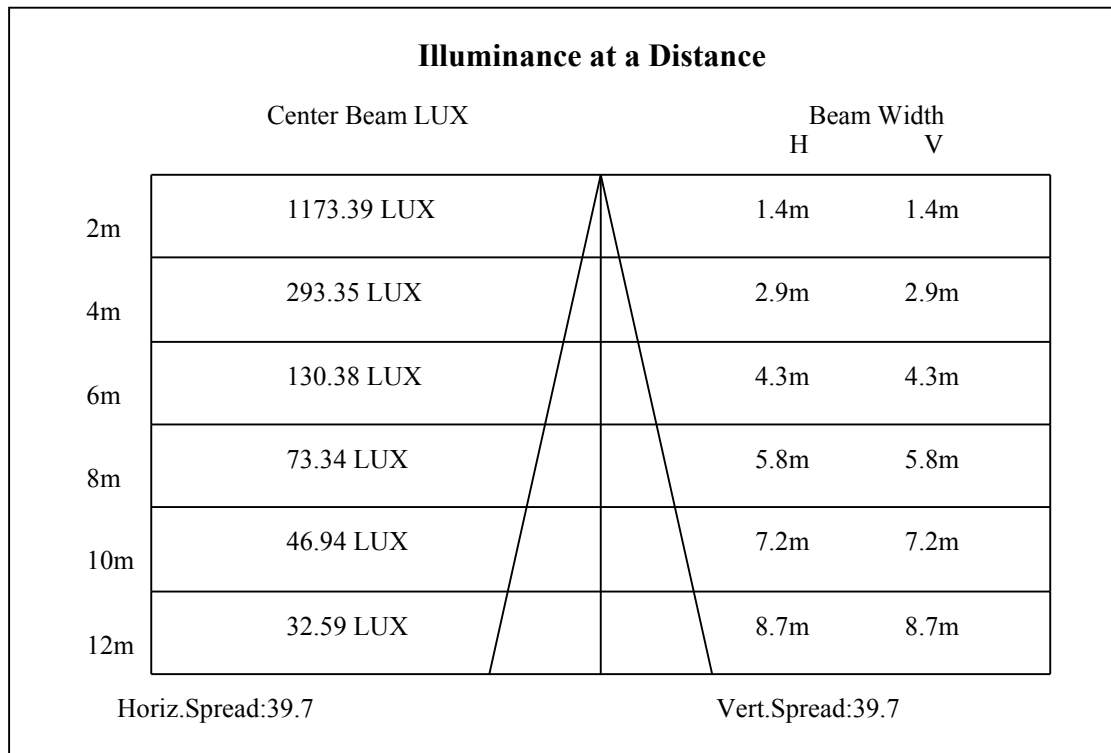
C90/C270: —————

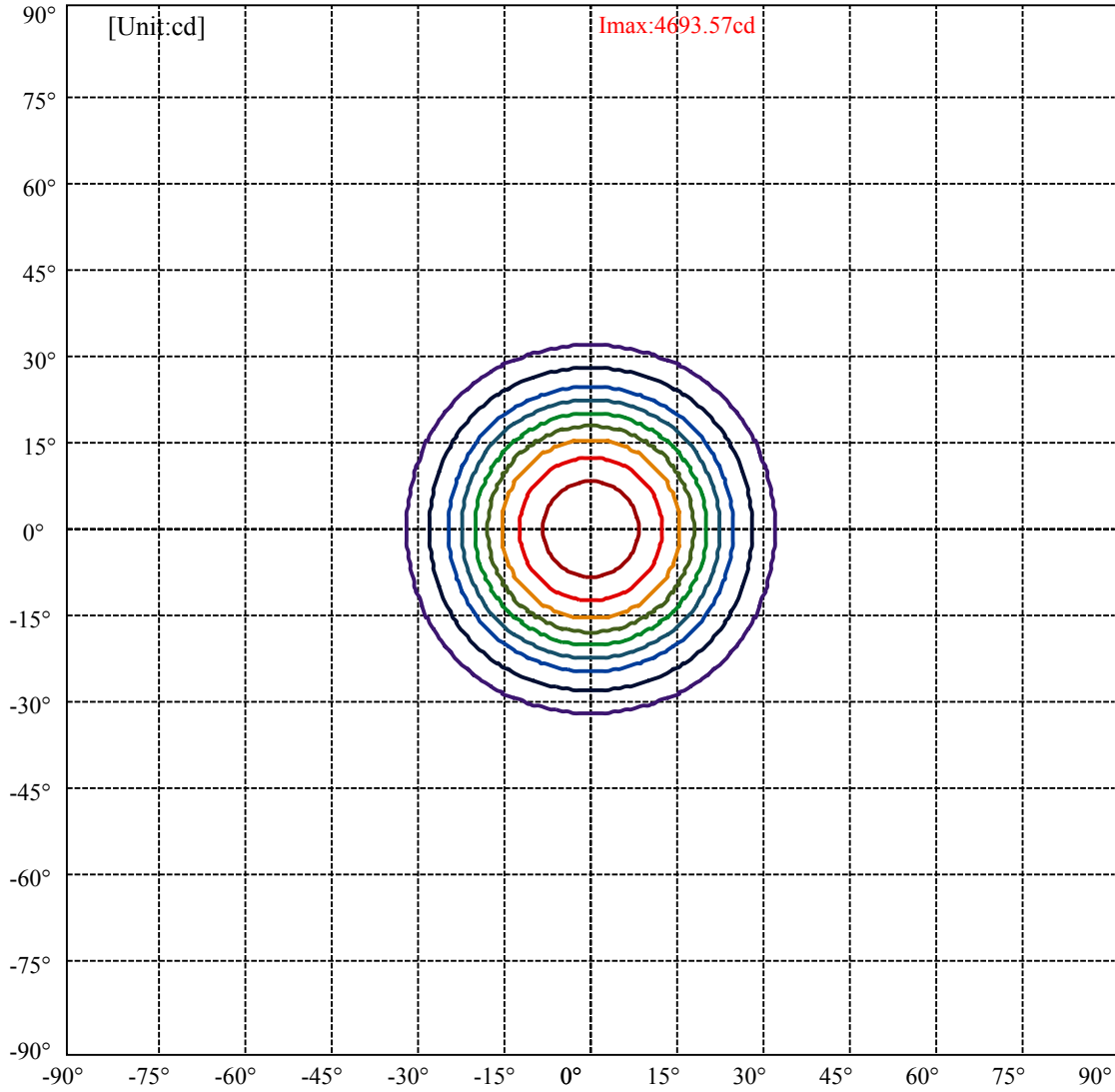
Field angle(10%Imax):C0/180Left:31.6 Right:31.6

:C90/270Left:31.6 Right:31.6

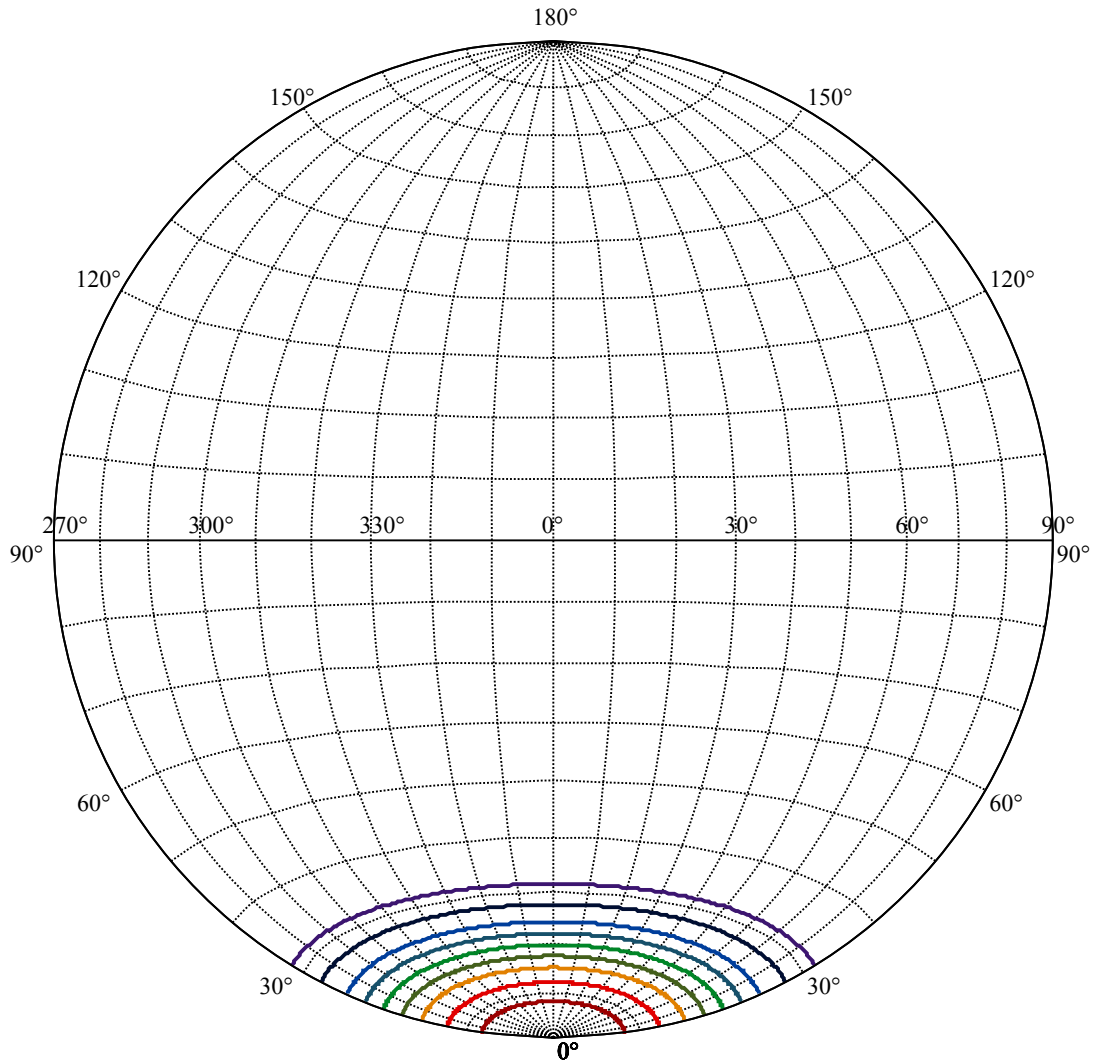
Beam Angle(50%Imax):C0/180Left:19.9 Right:19.9

:C90/270Left:19.9 Right:19.9





(10%Imax) 469.357	—
(20%Imax) 938.714	—
(30%Imax) 1408.07	—
(40%Imax) 1877.43	—
(50%Imax) 2346.78	—
(60%Imax) 2816.14	—
(70%Imax) 3285.5	—
(80%Imax) 3754.86	—
(90%Imax) 4224.21	—



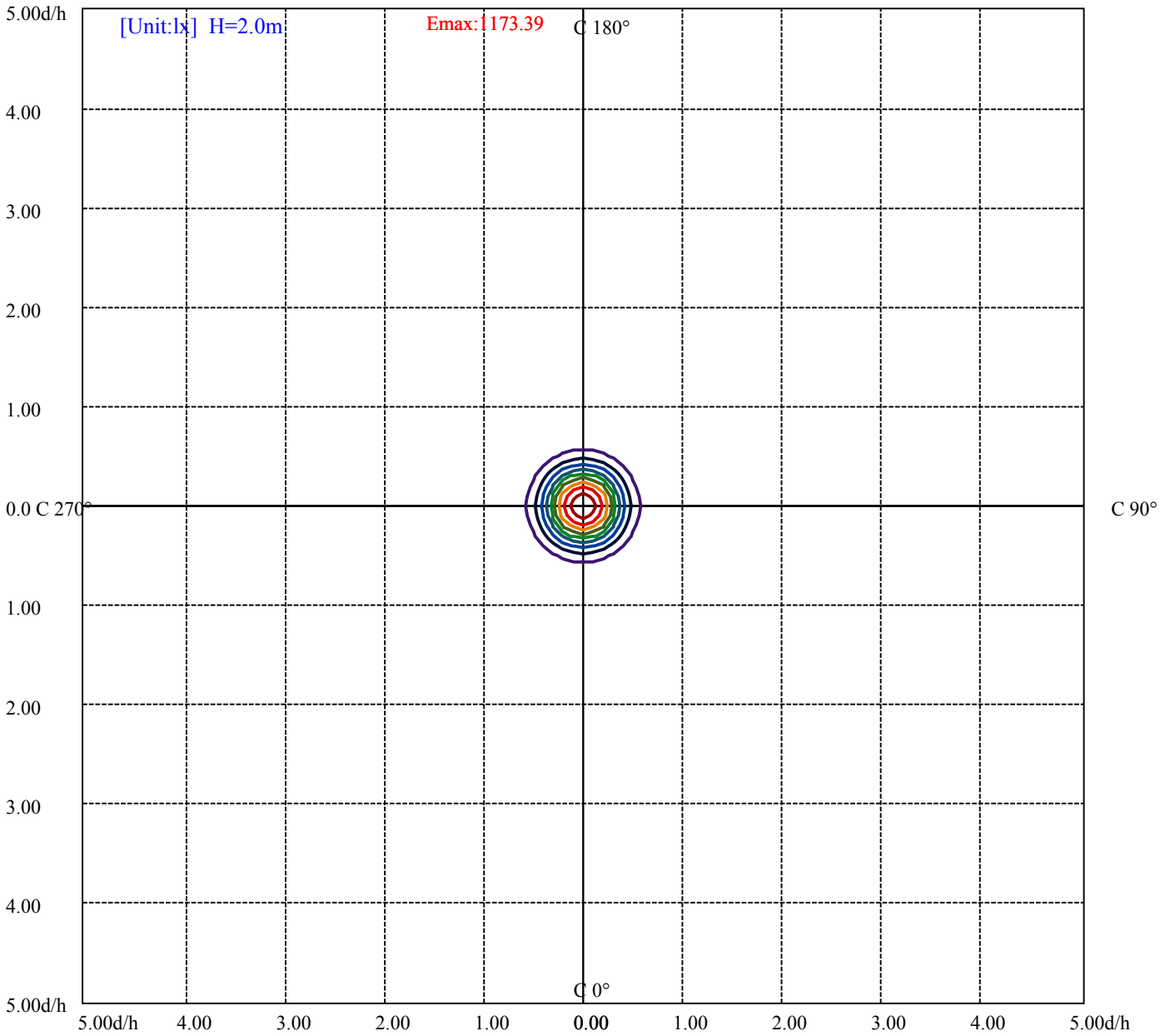
House

[Unit:cd]

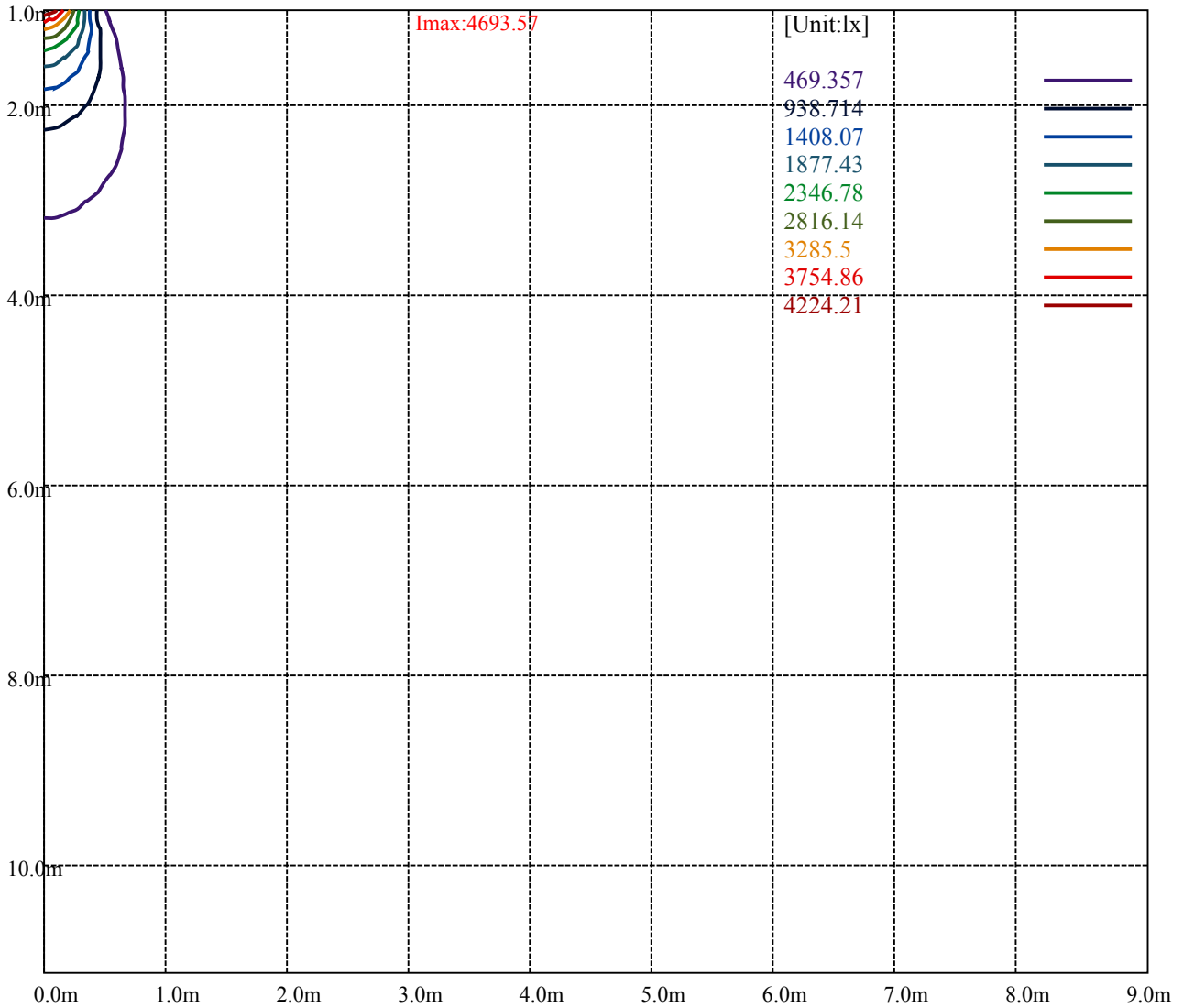
Road

Imax:4693.57

(10%Imax) 469.357	—
(20%Imax) 938.714	—
(30%Imax) 1408.07	—
(40%Imax) 1877.43	—
(50%Imax) 2346.78	—
(60%Imax) 2816.14	—
(70%Imax) 3285.5	—
(80%Imax) 3754.86	—
(90%Imax) 4224.21	—



(10%E _{max}) 117.3392	—
(20%E _{max}) 234.6785	—
(30%E _{max}) 352.0175	—
(40%E _{max}) 469.3575	—
(50%E _{max}) 586.695	—
(60%E _{max}) 704.035	—
(70%E _{max}) 821.375	—
(80%E _{max}) 938.7125	—
(90%E _{max}) 1056.052	—



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

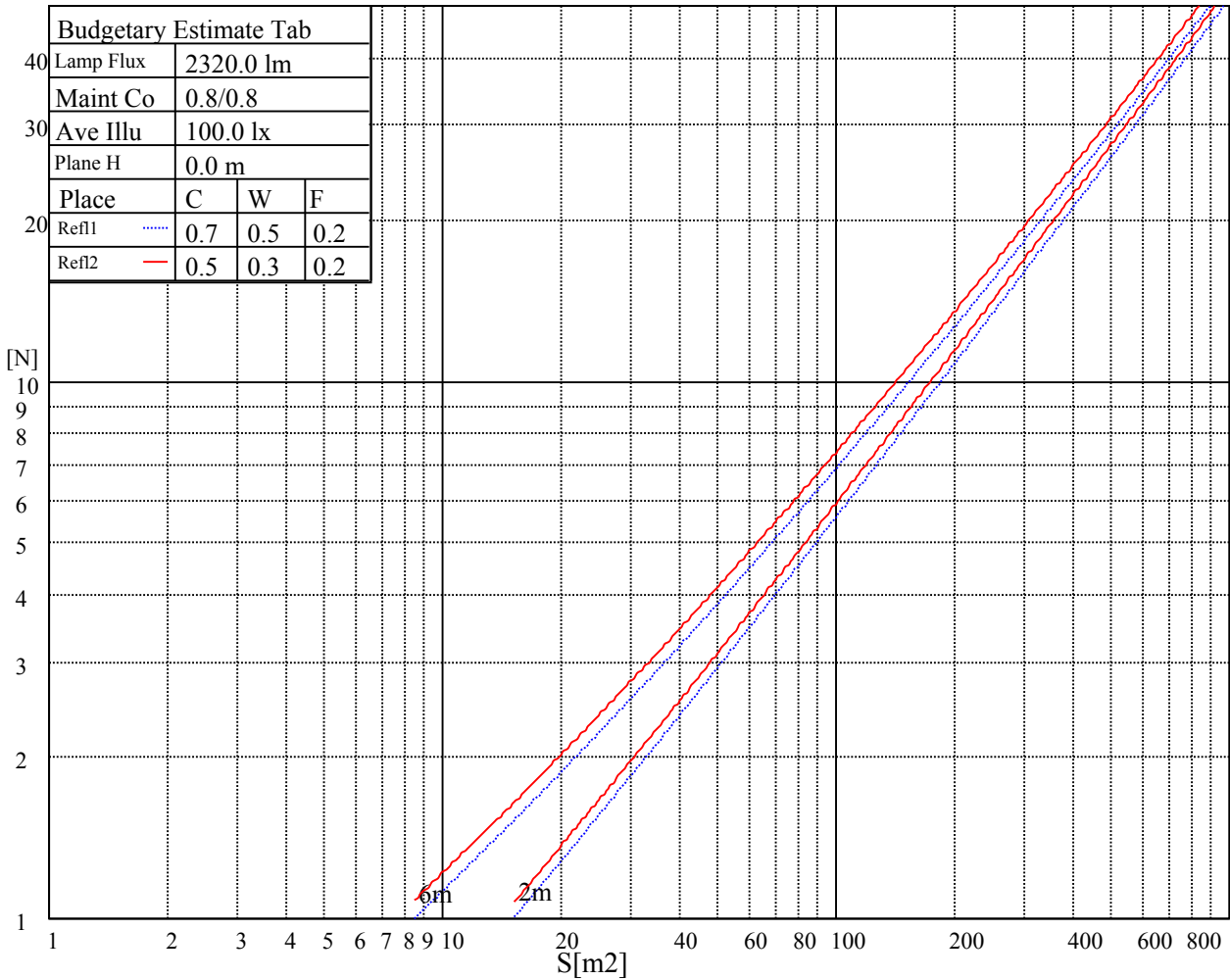
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

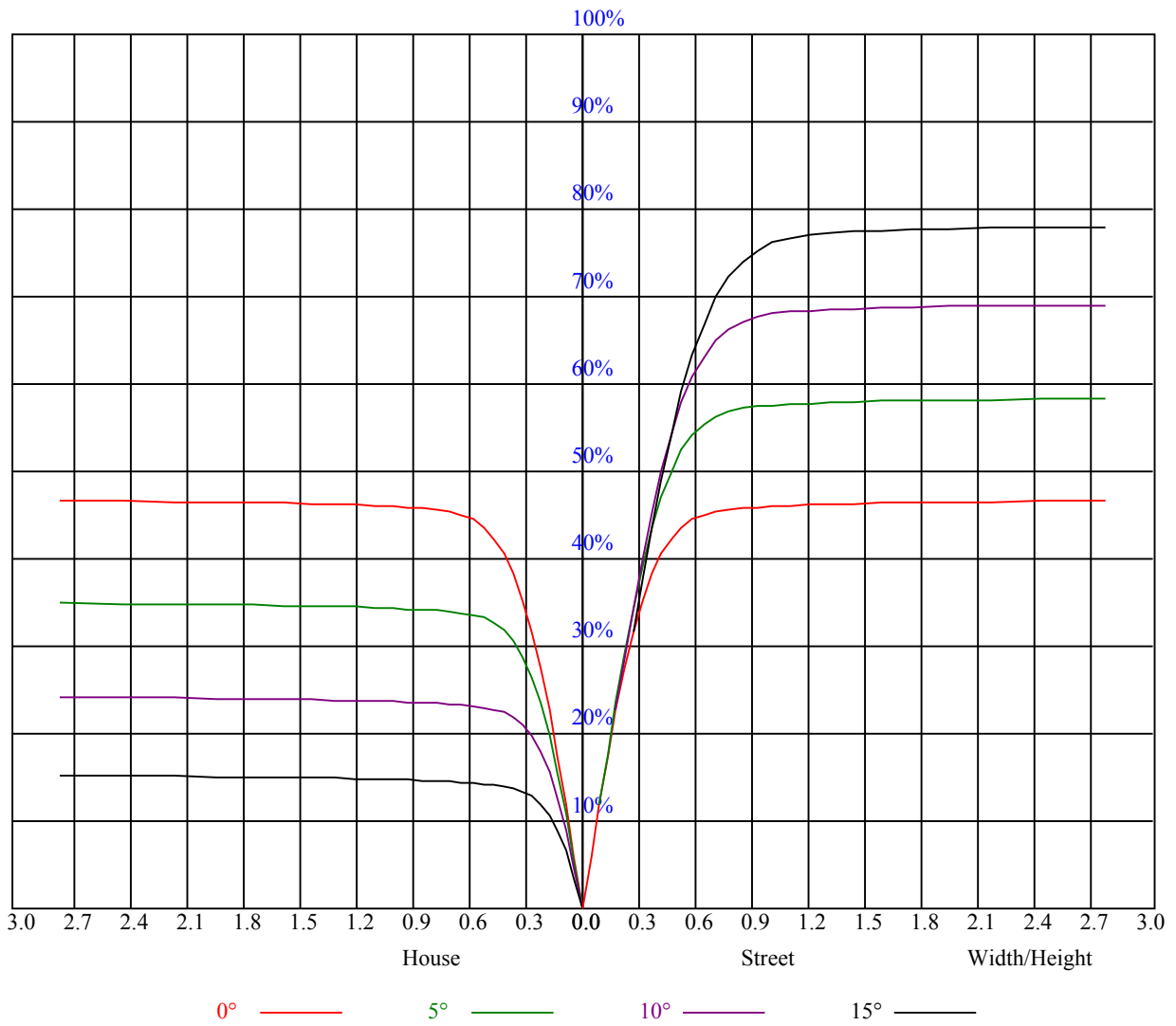


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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	1.12	1.12	1.12	1.09	1.09	1.09	1.04	1.04	1.04	1.00	1.00	1.00	0.96	0.96	0.96	0.94
1	1.05	1.03	1.01	1.03	1.01	0.99	0.99	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89
2	0.99	0.95	0.92	0.97	0.94	0.91	0.94	0.91	0.89	0.91	0.89	0.87	0.89	0.87	0.86	0.84
3	0.93	0.89	0.86	0.92	0.88	0.85	0.89	0.86	0.84	0.87	0.85	0.82	0.85	0.83	0.81	0.80
4	0.88	0.84	0.80	0.87	0.83	0.80	0.85	0.82	0.79	0.84	0.81	0.78	0.82	0.79	0.77	0.76
5	0.84	0.79	0.76	0.83	0.79	0.76	0.82	0.78	0.75	0.80	0.77	0.74	0.79	0.76	0.74	0.72
6	0.80	0.75	0.72	0.79	0.75	0.72	0.78	0.74	0.71	0.77	0.73	0.71	0.76	0.73	0.70	0.69
7	0.77	0.72	0.68	0.76	0.72	0.68	0.75	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.67	0.66
8	0.73	0.69	0.65	0.73	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.64	0.63
9	0.70	0.66	0.62	0.70	0.65	0.62	0.69	0.65	0.62	0.68	0.65	0.62	0.68	0.64	0.62	0.61
10	0.68	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.60	0.66	0.62	0.59	0.65	0.62	0.59	0.58



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	4689.00	4673.50	4648.04	4593.24	4528.48	4457.63	4374.04	4292.67	4169.23
45.0	4692.32	4691.22	4684.02	4658.01	4609.85	4543.98	4474.23	4401.16	4298.76
90.0	4695.65	4670.74	4634.76	4584.94	4531.25	4453.20	4377.36	4271.64	4185.29
135.0	4697.31	4689.00	4662.99	4615.38	4567.23	4501.91	4434.93	4341.94	4255.58
180.0	4689.00	4698.41	4690.11	4665.75	4618.15	4572.21	4504.68	4409.47	4318.69
225.0	4692.32	4679.59	4644.17	4606.53	4551.73	4472.57	4376.81	4288.80	4192.48
270.0	4695.65	4691.77	4677.93	4645.27	4615.38	4565.01	4498.59	4401.72	4310.94
315.0	4697.31	4684.02	4658.56	4635.86	4593.80	4514.09	4441.02	4357.44	4254.48
360.0	4689.00	4673.50	4648.04	4593.24	4528.48	4457.63	4374.04	4292.67	4169.23
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4064.06	3921.25	3806.67	3676.03	3498.35	3341.14	3157.92	2970.27	2715.65
45.0	4205.77	4108.90	4007.05	3859.25	3726.96	3583.59	3428.60	3201.65	3005.15
90.0	4085.10	3971.62	3825.49	3697.07	3540.97	3378.23	3151.83	2955.88	2704.02
135.0	4143.22	4047.46	3946.71	3808.88	3673.82	3535.99	3378.23	3164.01	2983.56
180.0	4229.02	4111.67	4018.12	3921.80	3788.40	3677.14	3538.20	3388.75	3179.51
225.0	4092.85	3963.87	3855.38	3712.01	3585.25	3451.85	3260.33	3095.93	2925.44
270.0	4219.05	4132.15	3998.74	3887.48	3769.58	3607.39	3465.69	3304.06	3099.80
315.0	4153.18	4055.76	3915.16	3792.83	3663.85	3493.37	3337.82	3168.44	2984.67
360.0	4064.06	3921.25	3806.67	3676.03	3498.35	3341.14	3157.92	2970.27	2715.65
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2505.30	2295.51	2090.71	1850.47	1667.80	1500.64	1072.14	1072.14	998.19
45.0	2803.11	2539.07	2317.10	2060.26	1862.10	1675.55	1501.19	1298.04	1140.28
90.0	2495.34	2280.57	2025.94	1830.54	1650.09	1443.07	1099.27	1099.27	995.59
135.0	2787.61	2587.78	2329.83	2125.02	1937.38	1710.98	1549.35	1388.27	1186.78
180.0	3008.47	2830.23	2639.26	2401.79	2204.73	1957.30	1766.89	1612.45	1407.09
225.0	2696.83	2508.63	2326.51	2139.97	1915.23	1745.30	1589.76	1441.41	1095.23
270.0	2920.46	2728.38	2490.36	2299.39	2101.78	1901.40	1705.44	1540.49	1395.46
315.0	2740.56	2527.45	2320.42	2118.38	1882.02	1709.32	1508.39	1091.74	1091.74
360.0	2505.30	2295.51	2090.71	1850.47	1667.80	1500.64	1072.14	1072.14	998.19
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	862.96	715.67	611.44	488.83	395.45	307.93	228.94	149.57	112.87
45.0	998.58	864.07	719.60	615.53	519.22	426.78	317.18	297.25	297.25
90.0	835.89	728.84	626.10	522.59	401.98	313.41	231.88	156.04	122.17
135.0	1024.60	882.34	732.33	626.05	524.75	427.88	313.85	293.37	293.37
180.0	1259.29	1101.54	949.87	791.00	671.99	562.39	464.97	348.73	284.52
225.0	1095.23	945.88	778.44	658.76	551.93	428.88	338.38	256.29	171.32
270.0	1252.65	1066.11	916.10	789.34	644.87	539.70	418.47	331.01	290.05
315.0	1017.12	884.77	761.50	650.74	522.15	424.78	334.39	251.80	168.44
360.0	862.96	715.67	611.44	488.83	395.45	307.93	228.94	149.57	112.87
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	94.93	82.14	70.41	63.38	57.12	51.76	45.83	42.01	38.08
45.0	121.67	102.57	86.79	77.55	69.41	60.83	54.97	49.87	45.67
90.0	103.35	87.68	78.44	70.52	61.94	56.02	50.93	46.61	42.01
135.0	123.38	99.42	85.30	75.78	67.03	60.39	54.63	48.66	44.56
180.0	284.52	132.13	99.47	84.86	71.79	64.21	57.73	50.81	46.05
225.0	123.60	98.14	83.75	70.85	63.32	56.90	51.42	45.33	41.46
270.0	290.05	122.33	99.97	85.47	72.24	64.15	57.68	52.09	45.89
315.0	124.16	100.58	85.58	71.85	63.71	55.91	50.54	45.78	40.80
360.0	94.93	82.14	70.41	63.38	57.12	51.76	45.83	42.01	38.08

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	35.43	33.16	30.61	28.89	27.40	25.74	24.52	23.47	22.47
45.0	41.18	38.14	35.54	33.16	30.56	28.73	27.18	25.46	24.30
90.0	38.97	36.20	33.82	31.27	29.45	27.84	26.02	24.80	23.41
135.0	41.13	37.42	34.87	32.60	30.11	28.34	26.85	25.52	24.08
180.0	42.12	38.91	35.48	33.10	31.00	29.17	27.18	25.74	24.47
225.0	38.19	34.82	32.38	29.89	28.17	26.57	24.85	23.64	22.64
270.0	41.85	38.47	35.54	32.44	30.28	28.01	26.46	25.08	23.47
315.0	37.64	34.93	32.60	30.11	28.45	26.96	25.52	24.02	22.97
360.0	35.43	33.16	30.61	28.89	27.40	25.74	24.52	23.47	22.47
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	21.37	20.59	19.87	19.26	18.54	17.99	17.44	16.94	16.55
45.0	23.19	21.92	21.09	20.31	19.48	18.82	18.27	17.77	17.16
90.0	22.36	21.42	20.59	19.60	18.99	18.43	17.88	17.27	16.83
135.0	22.97	21.98	21.09	20.15	19.43	18.71	18.10	17.60	16.99
180.0	23.03	22.09	21.15	20.15	19.43	18.65	18.10	17.60	17.10
225.0	21.64	20.59	19.87	19.21	18.60	17.88	17.38	16.94	16.55
270.0	22.42	21.42	20.59	19.65	18.99	18.38	17.82	17.27	16.83
315.0	22.03	21.03	20.26	19.60	18.88	18.27	17.71	17.27	16.83
360.0	21.37	20.59	19.87	19.26	18.54	17.99	17.44	16.94	16.55
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	16.05	15.72	15.28	14.95	14.56	14.23	13.89	13.56	13.28
45.0	16.72	16.33	15.94	15.44	15.11	14.78	14.39	14.00	13.67
90.0	16.44	15.94	15.55	15.17	14.72	14.39	14.06	13.67	13.40
135.0	16.55	16.22	15.83	15.33	15.00	14.67	14.39	13.95	13.62
180.0	16.61	16.16	15.83	15.44	15.00	14.67	14.39	14.12	13.73
225.0	16.00	15.67	15.28	14.95	14.61	14.23	13.95	13.67	13.40
270.0	16.38	15.94	15.55	15.17	14.83	14.50	14.28	13.89	13.62
315.0	16.38	15.94	15.61	15.22	14.83	14.45	14.17	13.89	13.56
360.0	16.05	15.72	15.28	14.95	14.56	14.23	13.89	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	13.01	12.73	12.45	12.23	11.96	11.62	11.40	11.13	10.85
45.0	13.40	13.06	12.79	12.51	12.23	12.01	11.68	11.40	11.18
90.0	13.12	12.79	12.57	12.29	12.01	11.68	11.46	11.24	10.96
135.0	13.40	13.01	12.79	12.45	12.23	11.96	11.73	11.40	11.18
180.0	13.45	13.12	12.90	12.68	12.40	12.18	11.96	11.68	11.40
225.0	13.12	12.84	12.62	12.40	12.18	11.90	11.68	11.40	11.18
270.0	13.34	13.12	12.84	12.62	12.34	12.07	11.85	11.57	11.29
315.0	13.23	13.01	12.73	12.45	12.23	11.90	11.68	11.40	11.18
360.0	13.01	12.73	12.45	12.23	11.96	11.62	11.40	11.13	10.85
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	10.63	10.41	10.19	9.96	9.80	9.63	9.47	9.19	9.24
45.0	10.96	10.68	10.35	10.13	9.91	9.69	9.58	9.35	9.13
90.0	10.68	10.41	10.13	9.91	9.80	9.58	9.41	9.19	9.30
135.0	10.96	10.68	10.41	10.13	9.91	9.80	9.58	9.41	9.13
180.0	11.18	10.90	10.68	10.41	10.24	10.02	9.80	9.63	9.41
225.0	10.85	10.68	10.46	10.24	10.02	9.85	9.69	9.47	9.35
270.0	11.07	10.79	10.57	10.41	10.13	9.96	9.74	9.58	9.41
315.0	10.85	10.63	10.46	10.19	10.02	9.80	9.63	9.47	9.35
360.0	10.63	10.41	10.19	9.96	9.80	9.63	9.47	9.19	9.24

Intensity data(cd)

C/γ(°)	90.0
0.0	9.24
45.0	9.24
90.0	9.24
135.0	9.24
180.0	9.24
225.0	9.13
270.0	9.19
315.0	9.13
360.0	9.24