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## NATA

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Client:

LumCAT: 2-2639-L

Luminaire: 92.70.412.00

Report No: 20231108-B016

Ballast type: AC

Test No: 20231008-C016

Voltage(V): 36.190

LampCAT: CITIZEN CLU038 LES14.5

Current(A): 0.540

Lamp flux(lm): 2889.2

Power (W): 19.542

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

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## Photometric Results

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Lumens(lm): 2756.53, Efficiency(%): 95.41% , Luminous Efficacy(lm/W): 141.06

Central intensity(cd): 11619.830, Maximum intensity(cd): 11619.830

Angle of maximum intensity: C=0.0  $\gamma$ =0.0

Beam Angle(50%Imax): [C0/180]Total=20.6

[C90/270]Total=20.6

Field angle(10%Imax): [C0/180]Total=53.4

[C90/270]Total=53.4

Beam angle of C0 plane : 20.62

Average BeamAngle(IEC 61341):20.62

Maximum s/h(1/2): C0\_180=0.35 C90\_270=0.35

Maximum s/h(1/4): C0\_180=0.39 C90\_270=0.39

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 95.41%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 98.169%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	11619.828	0.000	0	0.00%	0.00%
1.0	11437.424	11.032	11.032	0.38%	0.40%
2.0	11185.205	32.470	43.503	1.12%	1.58%
3.0	10885.811	52.787	96.289	1.83%	3.49%
4.0	10335.666	71.035	167.324	2.46%	6.07%
5.0	9644.368	85.953	253.277	2.97%	9.19%
6.0	8936.534	97.648	350.925	3.38%	12.73%
7.0	8195.280	106.337	457.262	3.68%	16.59%
8.0	7423.790	111.783	569.045	3.87%	20.64%
9.0	6674.163	114.256	683.301	3.95%	24.79%
10.0	6004.592	114.738	798.039	3.97%	28.95%
11.0	5377.229	113.728	911.767	3.94%	33.08%
12.0	4799.683	111.248	1023.015	3.85%	37.11%
13.0	4288.700	107.856	1130.871	3.73%	41.03%
14.0	3823.661	103.837	1234.709	3.59%	44.79%
15.0	3435.424	99.656	1334.365	3.45%	48.41%
16.0	3057.498	95.139	1429.504	3.29%	51.86%
17.0	2781.422	90.928	1520.432	3.15%	55.16%
18.0	2588.514	88.539	1608.97	3.06%	58.37%
19.0	2344.599	85.826	1694.796	2.97%	61.48%
20.0	2051.833	80.467	1775.263	2.79%	64.40%
21.0	1875.809	75.419	1850.682	2.61%	67.14%
22.0	1722.203	72.304	1922.985	2.50%	69.76%
23.0	1591.015	69.520	1992.506	2.41%	72.28%
24.0	1466.607	66.851	2059.356	2.31%	74.71%
25.0	1318.481	63.327	2122.683	2.19%	77.01%
26.0	1202.183	59.501	2182.184	2.06%	79.16%
27.0	1142.955	57.374	2239.558	1.99%	81.25%
28.0	1046.522	55.433	2294.991	1.92%	83.26%
29.0	941.724	52.018	2347.009	1.80%	85.14%
30.0	833.743	47.937	2394.946	1.66%	86.88%
31.0	730.875	43.541	2438.487	1.51%	88.46%
32.0	631.730	39.037	2477.524	1.35%	89.88%
33.0	531.630	34.273	2511.797	1.19%	91.12%
34.0	450.814	29.732	2541.529	1.03%	92.20%
35.0	368.088	25.432	2566.961	0.88%	93.12%
36.0	299.996	21.272	2588.233	0.74%	93.89%
37.0	249.202	17.912	2606.145	0.62%	94.54%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	215.436	15.509	2621.654	0.54%	95.11%
39.0	144.155	12.274	2633.928	0.42%	95.55%
40.0	107.248	8.768	2642.696	0.30%	95.87%
41.0	82.878	6.770	2649.466	0.23%	96.12%
42.0	66.196	5.416	2654.882	0.19%	96.31%
43.0	53.651	4.439	2659.321	0.15%	96.47%
44.0	45.971	3.760	2663.082	0.13%	96.61%
45.0	40.034	3.305	2666.387	0.11%	96.73%
46.0	36.174	2.980	2669.367	0.10%	96.84%
47.0	33.150	2.757	2672.124	0.10%	96.94%
48.0	31.150	2.599	2674.724	0.09%	97.03%
49.0	29.573	2.494	2677.217	0.09%	97.12%
50.0	28.549	2.423	2679.641	0.08%	97.21%
51.0	27.877	2.387	2682.028	0.08%	97.30%
52.0	27.608	2.381	2684.409	0.08%	97.38%
53.0	27.649	2.404	2686.812	0.08%	97.47%
54.0	28.127	2.458	2689.271	0.09%	97.56%
55.0	28.895	2.545	2691.816	0.09%	97.65%
56.0	29.926	2.658	2694.474	0.09%	97.75%
57.0	30.943	2.783	2697.257	0.10%	97.85%
58.0	31.565	2.891	2700.148	0.10%	97.95%
59.0	31.655	2.956	2703.103	0.10%	98.06%
60.0	31.026	2.961	2706.065	0.10%	98.17%
61.0	29.490	2.888	2708.952	0.10%	98.27%
62.0	27.262	2.735	2711.687	0.09%	98.37%
63.0	24.985	2.541	2714.228	0.09%	98.47%
64.0	22.584	2.334	2716.562	0.08%	98.55%
65.0	20.868	2.150	2718.713	0.07%	98.63%
66.0	19.395	2.009	2720.722	0.07%	98.70%
67.0	18.391	1.900	2722.622	0.07%	98.77%
68.0	17.540	1.820	2724.442	0.06%	98.84%
69.0	16.945	1.759	2726.201	0.06%	98.90%
70.0	16.405	1.713	2727.914	0.06%	98.96%
71.0	15.914	1.670	2729.584	0.06%	99.02%
72.0	15.492	1.633	2731.217	0.06%	99.08%
73.0	15.118	1.601	2732.818	0.06%	99.14%
74.0	14.793	1.573	2734.391	0.05%	99.20%
75.0	14.510	1.548	2735.939	0.05%	99.25%

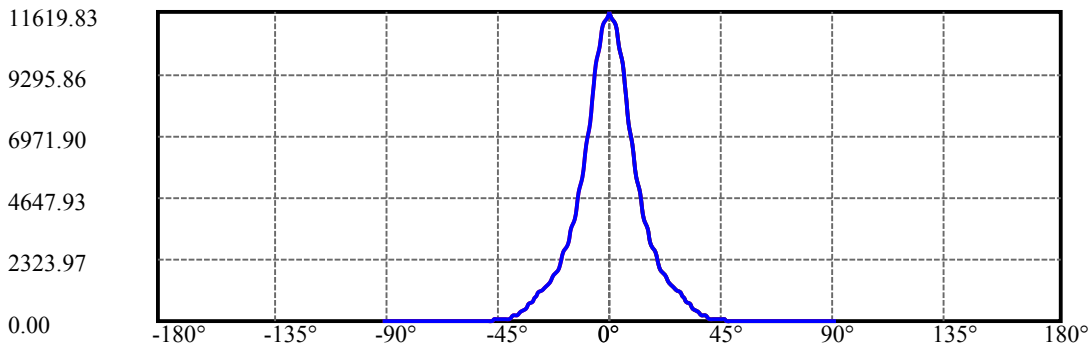
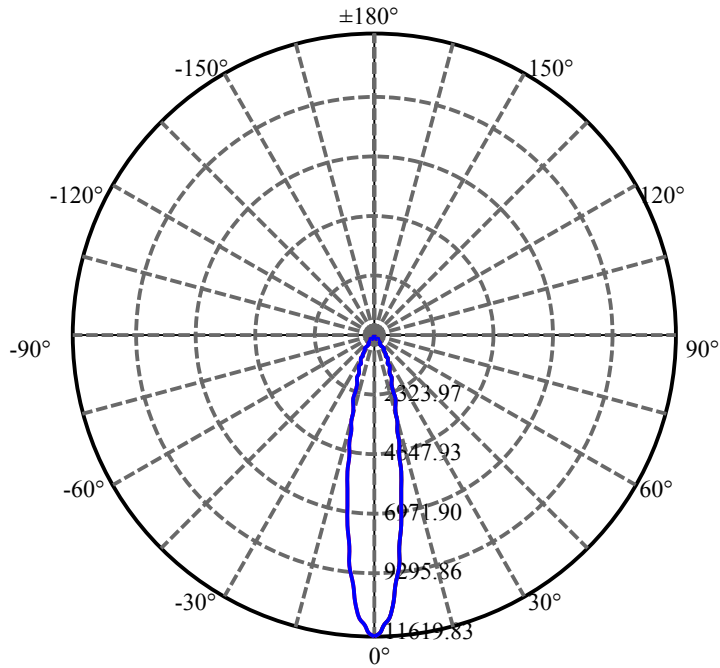
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	14.247	1.526	2737.465	0.05%	99.31%
77.0	14.011	1.507	2738.972	0.05%	99.36%
78.0	13.755	1.486	2740.458	0.05%	99.42%
79.0	13.520	1.466	2741.924	0.05%	99.47%
80.0	13.264	1.444	2743.368	0.05%	99.52%
81.0	13.015	1.421	2744.789	0.05%	99.57%
82.0	12.731	1.396	2746.185	0.05%	99.62%
83.0	12.468	1.370	2747.555	0.05%	99.67%
84.0	12.219	1.345	2748.9	0.05%	99.72%
85.0	11.991	1.321	2750.221	0.05%	99.77%
86.0	11.776	1.299	2751.52	0.04%	99.82%
87.0	11.597	1.279	2752.8	0.04%	99.86%
88.0	11.410	1.260	2754.06	0.04%	99.91%
89.0	11.244	1.242	2755.302	0.04%	99.96%
90.0	11.175	1.229	2756.531	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2394.95	82.89%	86.88%
0-40	2642.70	91.47%	95.87%
0-60	2706.06	93.66%	98.17%
0-90	2755.30	95.37%	99.96%
0-120	2755.30	95.37%	99.96%
0-180	2756.53	95.41%	100.00%
60-90	49.24	1.70%	1.79%
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%
0-26.40	2205.23	76.33%	80.00%

ZONAL LUMEN SUMMARY

0-10	798.04
10-20	977.22
20-30	619.68
30-40	247.75
40-50	36.94
50-60	26.42
60-70	21.85
70-80	15.45
80-90	11.93
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: —————

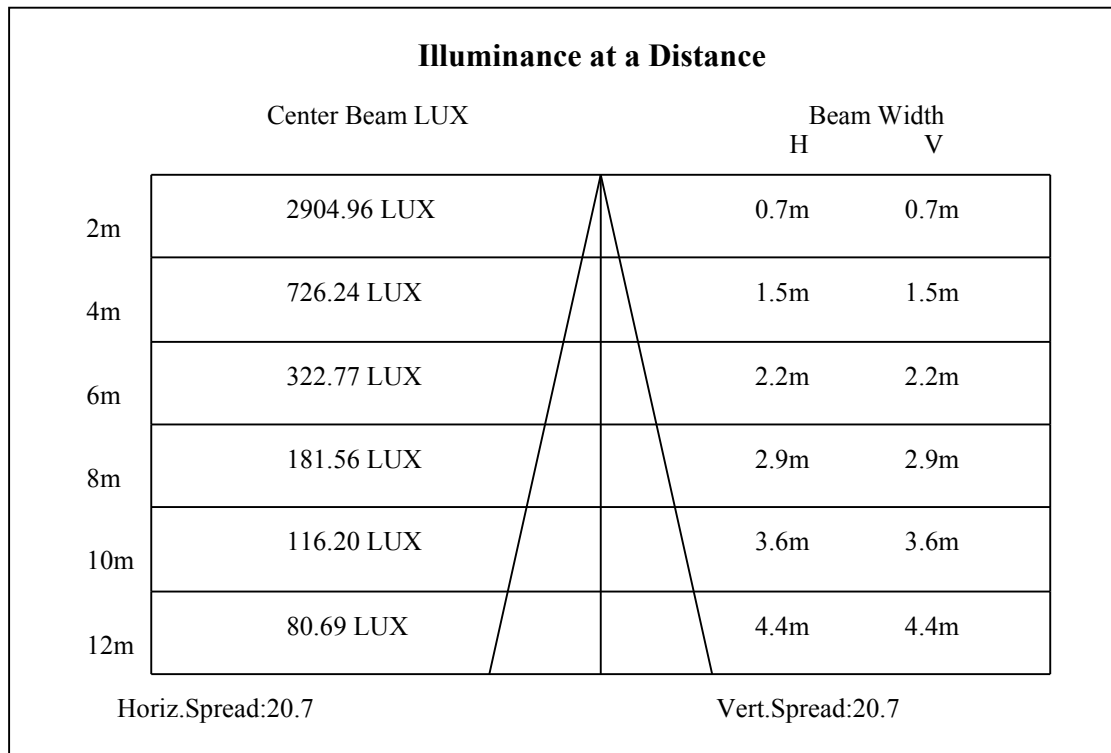
C90/C270: —————

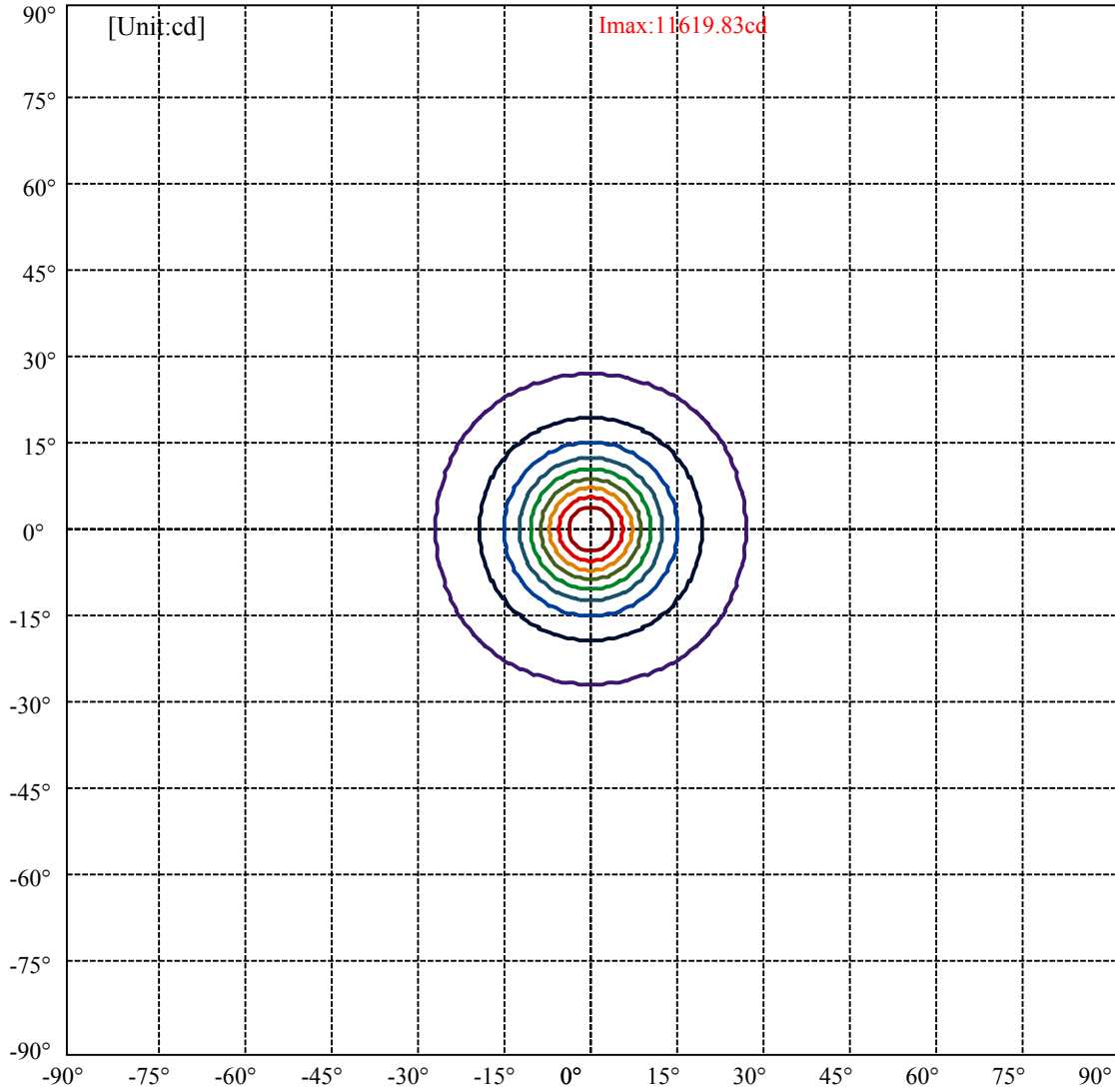
Field angle(10%Imax):C0/180Left:26.7 Right:26.7

:C90/270Left:26.7 Right:26.7

Beam Angle(50%Imax):C0/180Left:10.3 Right:10.3

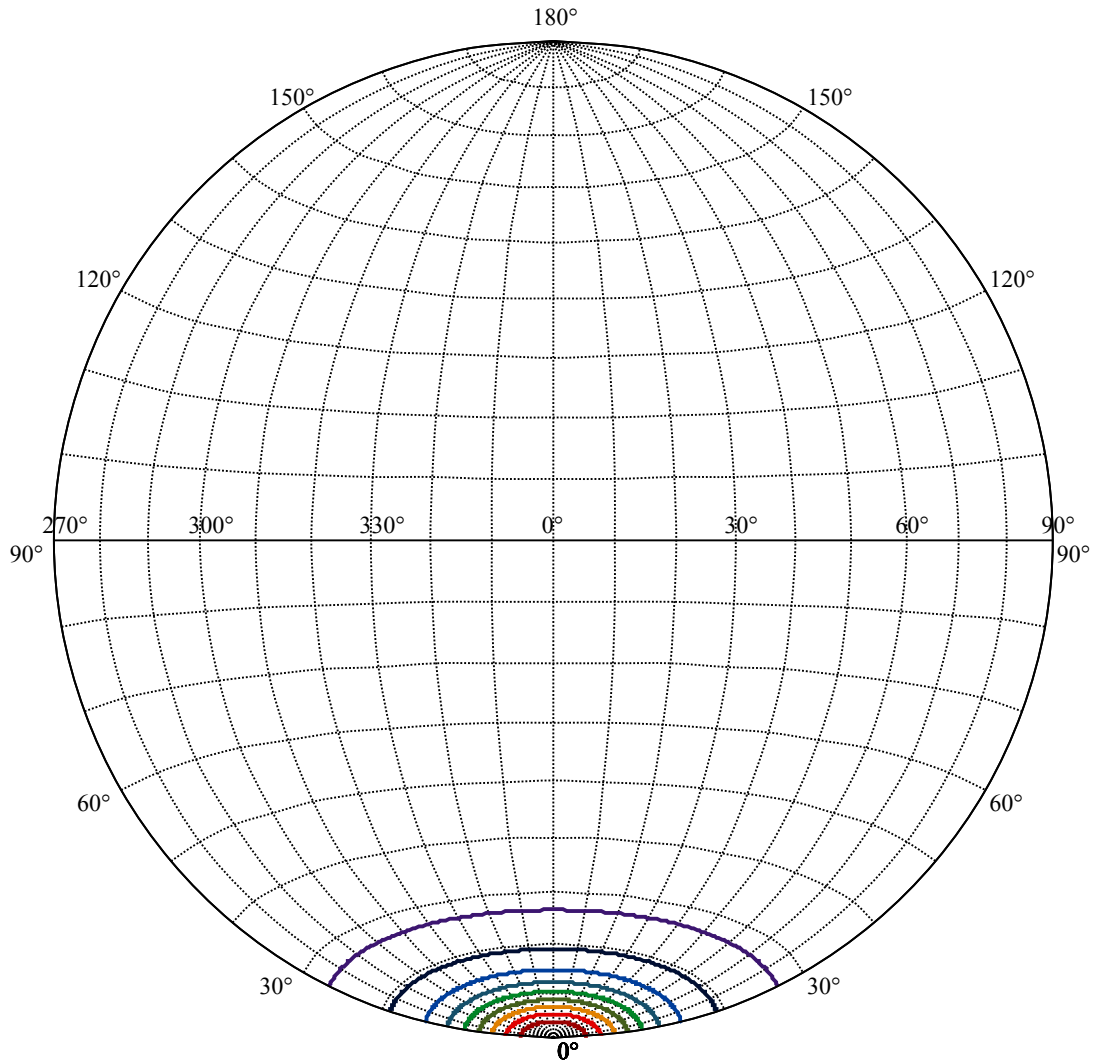
:C90/270Left:10.3 Right:10.3





(10%Imax) 1161.98	—
(20%Imax) 2323.97	—
(30%Imax) 3485.95	—
(40%Imax) 4647.93	—
(50%Imax) 5809.91	—
(60%Imax) 6971.9	—
(70%Imax) 8133.88	—
(80%Imax) 9295.86	—
(90%Imax) 10457.8	—





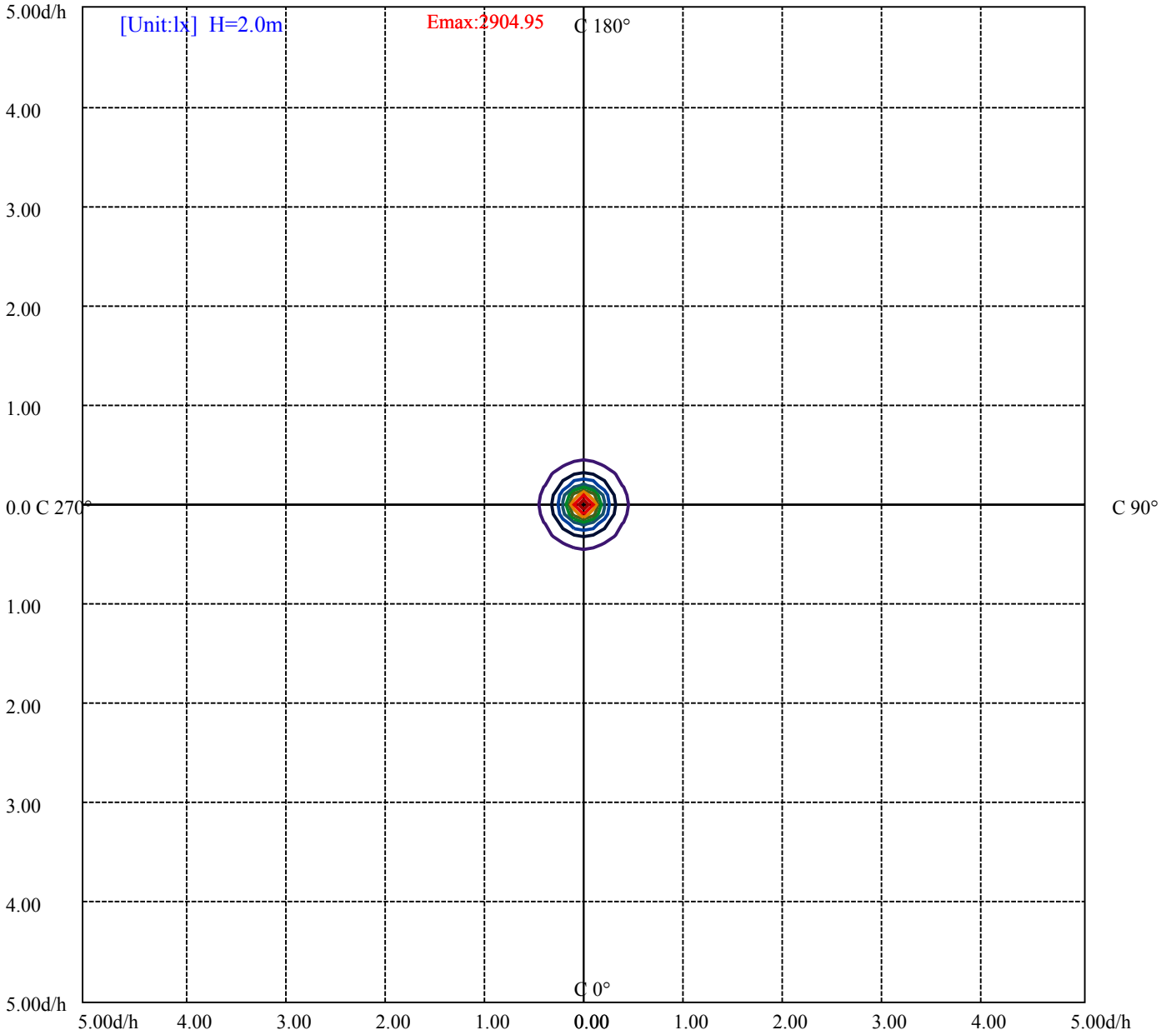
House

[Unit:cd]

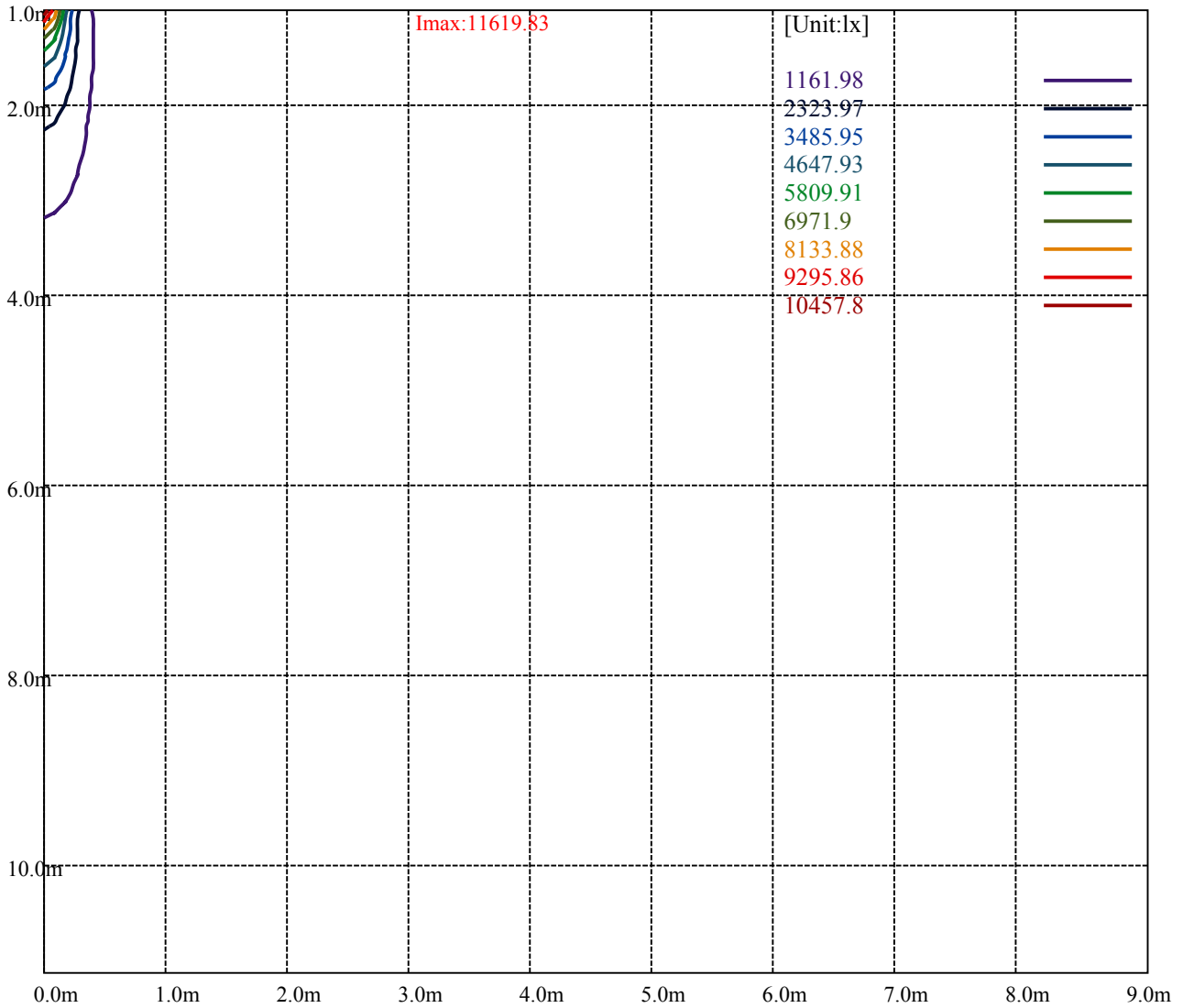
Road

**Imax:11619.83**

(10%Imax)	1161.98	—
(20%Imax)	2323.97	—
(30%Imax)	3485.95	—
(40%Imax)	4647.93	—
(50%Imax)	5809.91	—
(60%Imax)	6971.9	—
(70%Imax)	8133.88	—
(80%Imax)	9295.86	—
(90%Imax)	10457.8	—



- (10%Emax) 290.495
- (20%Emax) 580.99
- (30%Emax) 871.485
- (40%Emax) 1161.98
- (50%Emax) 1452.475
- (60%Emax) 1742.97
- (70%Emax) 2033.465
- (80%Emax) 2323.96
- (90%Emax) 2614.45



Luminance Table

$\gamma$	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

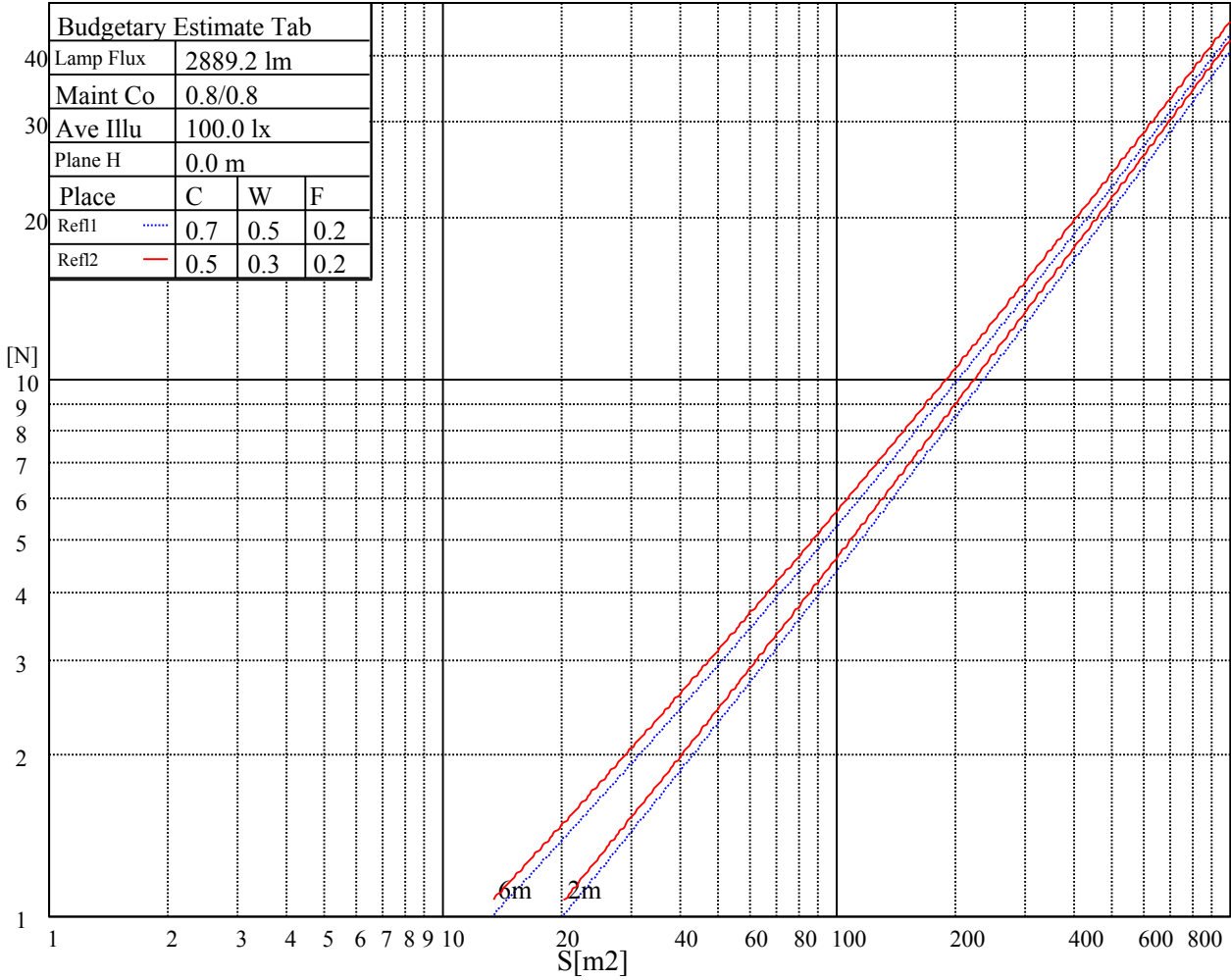
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

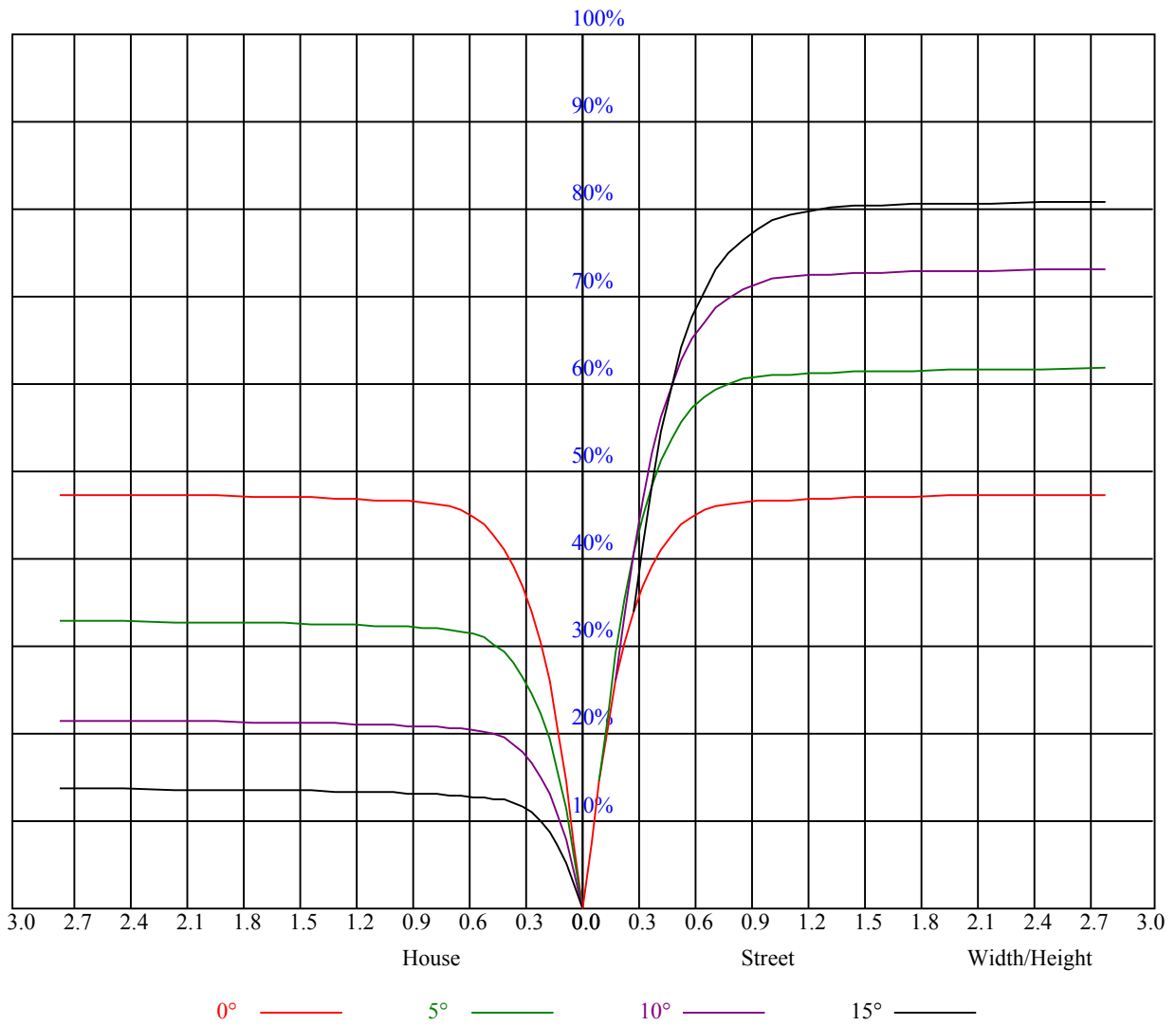


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	3H	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	1.14	1.14	1.14	1.11	1.11	1.11	1.06	1.06	1.06	1.01	1.01	1.01	0.97	0.97	0.97	0.95
1	1.07	1.05	1.03	1.05	1.03	1.01	1.01	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91
2	1.01	0.97	0.95	0.99	0.96	0.94	0.96	0.94	0.92	0.93	0.91	0.90	0.91	0.89	0.88	0.86
3	0.96	0.92	0.88	0.94	0.91	0.88	0.92	0.89	0.86	0.90	0.87	0.85	0.88	0.85	0.84	0.82
4	0.91	0.87	0.83	0.90	0.86	0.83	0.88	0.85	0.82	0.86	0.83	0.81	0.85	0.82	0.80	0.79
5	0.87	0.82	0.79	0.86	0.82	0.79	0.84	0.81	0.78	0.83	0.80	0.77	0.82	0.79	0.77	0.76
6	0.83	0.79	0.75	0.83	0.78	0.75	0.81	0.77	0.75	0.80	0.77	0.74	0.79	0.76	0.74	0.73
7	0.80	0.75	0.72	0.79	0.75	0.72	0.78	0.74	0.72	0.77	0.74	0.71	0.76	0.73	0.71	0.70
8	0.77	0.72	0.69	0.76	0.72	0.69	0.76	0.72	0.69	0.75	0.71	0.69	0.74	0.71	0.68	0.67
9	0.74	0.70	0.67	0.74	0.69	0.67	0.73	0.69	0.66	0.72	0.69	0.66	0.71	0.68	0.66	0.65
10	0.72	0.67	0.64	0.71	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.64	0.63





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	11570.01	10972.69	10845.38	10297.37	9665.79	8821.09	8105.93	7385.78	6522.81
45.0	11680.72	11575.54	11348.60	10961.12	10296.88	9665.85	9001.60	8304.15	7412.95
90.0	11575.54	10968.26	10855.34	10314.53	9685.16	8839.91	8169.03	7487.07	6623.00
135.0	11653.04	11531.26	11309.85	10900.23	10235.99	9604.96	8746.98	8071.66	7396.35
180.0	11570.01	11664.11	11575.54	11343.06	10966.66	10451.87	9676.92	8996.07	8276.47
225.0	11680.72	11564.47	10967.15	10967.15	10439.63	9655.27	8956.16	8057.21	7342.60
270.0	11575.54	11658.58	11597.69	11320.92	10927.91	10418.65	9809.76	8946.25	8237.72
315.0	11653.04	11564.47	10982.10	10982.10	10467.31	9697.34	9025.90	8314.06	7578.41
360.0	11570.01	10972.69	10845.38	10297.37	9665.79	8821.09	8105.93	7385.78	6522.81
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5897.32	5337.14	4806.30	4208.48	3798.31	3420.80	3091.44	2734.97	2481.45
45.0	6732.10	6101.07	5359.34	4827.94	4340.83	3809.43	3433.03	3034.48	2813.07
90.0	5986.99	5264.63	4730.46	4249.44	3818.79	3359.35	3031.11	2744.38	2505.80
135.0	6560.51	5935.01	5353.80	4700.63	4224.59	3798.36	3416.42	3001.27	2851.82
180.0	7551.34	6715.50	6062.33	5475.58	4794.73	4318.69	3886.93	3388.75	3051.09
225.0	6650.68	6001.38	5253.55	4735.45	4261.06	3719.71	3351.05	3013.39	2722.79
270.0	7335.46	6649.07	6006.97	5281.84	4750.45	4268.87	3859.25	3460.71	3034.48
315.0	6678.91	6032.93	5445.08	4918.11	4320.85	3894.07	3414.15	3082.03	2790.87
360.0	5897.32	5337.14	4806.30	4208.48	3798.31	3420.80	3091.44	2734.97	2481.45
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2266.12	2034.74	1874.77	1703.17	1584.16	1470.69	1368.84	1099.82	1099.82
45.0	2813.07	2294.35	2069.06	1908.54	1769.05	1651.14	1507.22	1402.05	1302.41
90.0	2245.09	2072.38	1909.64	1771.26	1616.82	1505.56	1373.27	1099.38	1099.38
135.0	2851.82	2264.46	2041.39	1886.95	1744.69	1598.00	1488.40	1356.11	1258.13
180.0	2829.68	2829.68	2203.02	2019.24	1821.63	1674.94	1551.51	1455.19	1321.24
225.0	2405.61	2184.75	1997.66	1796.17	1660.55	1516.08	1403.71	1305.74	1092.90
270.0	2824.14	2824.14	2256.16	2024.23	1862.59	1717.01	1558.70	1453.53	1343.38
315.0	2472.59	2252.28	2062.97	1896.91	1718.12	1594.68	1481.21	1376.04	1100.21
360.0	2266.12	2034.74	1874.77	1703.17	1584.16	1470.69	1368.84	1099.82	1099.82
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1053.82	956.51	833.18	737.20	642.49	548.83	442.22	366.50	297.58
45.0	1201.12	1082.11	982.47	861.25	761.06	661.42	547.39	463.81	386.31
90.0	1074.52	955.02	856.54	736.76	642.43	550.38	467.74	390.80	303.78
135.0	1161.26	1065.50	948.71	850.73	751.09	654.22	541.86	459.38	382.99
180.0	1234.33	1135.80	1044.47	928.78	831.91	709.58	616.58	529.68	431.70
225.0	1092.90	1000.24	906.64	810.43	692.09	599.65	512.52	434.64	348.62
270.0	1225.47	1129.16	1032.84	914.39	816.41	714.01	596.10	510.86	433.36
315.0	1100.21	1047.84	928.94	830.41	709.52	615.75	528.63	450.86	360.35
360.0	1053.82	956.51	833.18	737.20	642.49	548.83	442.22	366.50	297.58
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	223.91	176.85	129.80	102.02	81.48	63.38	53.19	45.89	40.68
45.0	316.01	283.91	283.91	141.65	110.38	82.31	66.92	55.69	47.88
90.0	243.39	192.30	149.40	109.38	85.85	69.03	54.52	46.72	40.19
135.0	312.69	296.09	222.63	139.33	101.46	80.15	64.99	51.92	44.89
180.0	360.85	293.32	293.32	172.09	133.90	104.01	81.65	62.44	52.03
225.0	285.85	230.22	172.37	134.23	98.14	77.05	62.22	49.65	42.95
270.0	361.96	282.25	282.25	213.55	135.78	99.03	77.99	60.00	50.37
315.0	295.31	238.68	189.81	140.99	110.98	88.07	68.08	56.90	48.77
360.0	223.91	176.85	129.80	102.02	81.48	63.38	53.19	45.89	40.68

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	35.98	33.43	31.50	30.17	28.89	28.34	28.06	28.29	28.73
45.0	41.07	37.36	34.04	32.11	30.67	29.45	28.78	28.51	28.62
90.0	36.48	33.77	31.39	30.11	29.17	28.56	28.23	28.29	28.62
135.0	38.86	35.48	32.88	31.00	29.50	28.23	27.68	27.40	27.51
180.0	44.67	39.58	34.93	32.33	29.89	28.62	27.57	26.85	26.57
225.0	38.19	34.71	31.61	29.84	28.56	27.62	26.96	26.74	26.74
270.0	43.45	37.47	34.32	31.83	29.67	28.51	27.62	27.07	26.85
315.0	41.57	37.59	34.54	31.83	30.22	29.06	28.12	27.73	27.57
360.0	35.98	33.43	31.50	30.17	28.89	28.34	28.06	28.29	28.73
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	29.56	30.56	31.55	32.22	32.33	31.50	29.89	27.73	24.80
45.0	29.06	29.78	30.78	31.99	32.66	32.66	31.88	30.00	27.51
90.0	29.39	30.44	31.44	32.05	31.99	31.27	29.84	27.01	24.80
135.0	28.01	28.84	30.22	31.33	32.11	32.38	31.72	30.22	27.12
180.0	26.74	27.12	28.12	29.17	30.39	30.94	31.33	30.83	29.67
225.0	27.40	28.34	29.39	30.78	31.44	31.88	31.22	29.84	27.73
270.0	27.07	27.51	28.45	29.56	30.56	31.39	31.61	30.94	29.17
315.0	27.79	28.56	29.45	30.44	31.05	31.22	30.72	29.34	27.29
360.0	29.56	30.56	31.55	32.22	32.33	31.50	29.89	27.73	24.80
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	22.64	20.98	19.65	18.43	17.66	16.88	16.33	15.94	15.44
45.0	25.19	22.42	20.81	19.26	18.38	17.66	16.99	16.33	15.89
90.0	22.64	20.59	19.32	18.43	17.66	16.88	16.38	15.94	15.50
135.0	24.85	22.53	20.81	19.48	18.38	17.66	17.05	16.44	15.94
180.0	27.18	24.91	22.58	20.48	19.15	18.05	17.38	16.83	16.33
225.0	25.35	22.36	20.70	19.32	18.38	17.49	16.94	16.44	15.83
270.0	27.01	24.63	22.42	20.31	19.10	18.16	17.49	16.77	16.27
315.0	25.02	22.25	20.65	19.43	18.43	17.55	16.99	16.55	16.11
360.0	22.64	20.98	19.65	18.43	17.66	16.88	16.33	15.94	15.44
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	15.06	14.78	14.45	14.23	14.00	13.84	13.56	13.34	13.06
45.0	15.50	15.11	14.78	14.50	14.28	14.06	13.78	13.56	13.34
90.0	15.11	14.78	14.45	14.23	14.00	13.73	13.56	13.28	13.01
135.0	15.55	15.11	14.83	14.50	14.28	14.06	13.84	13.56	13.34
180.0	15.78	15.39	15.06	14.78	14.39	14.17	13.89	13.67	13.40
225.0	15.50	15.06	14.78	14.50	14.23	13.95	13.67	13.45	13.23
270.0	15.89	15.50	15.11	14.78	14.45	14.23	13.95	13.67	13.45
315.0	15.55	15.22	14.89	14.56	14.34	14.06	13.78	13.62	13.28
360.0	15.06	14.78	14.45	14.23	14.00	13.84	13.56	13.34	13.06
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	12.84	12.51	12.29	12.07	11.85	11.62	11.46	11.24	11.18
45.0	13.01	12.79	12.45	12.23	12.01	11.79	11.62	11.40	11.18
90.0	12.73	12.45	12.29	12.01	11.79	11.62	11.46	11.29	11.18
135.0	13.12	12.73	12.45	12.18	11.96	11.79	11.62	11.40	11.24
180.0	13.17	12.90	12.62	12.34	12.18	11.90	11.68	11.51	11.35
225.0	12.95	12.68	12.45	12.18	11.96	11.73	11.57	11.40	11.18
270.0	13.23	12.95	12.68	12.45	12.18	11.96	11.73	11.57	11.35
315.0	13.06	12.84	12.51	12.29	12.01	11.79	11.62	11.46	11.29
360.0	12.84	12.51	12.29	12.07	11.85	11.62	11.46	11.24	11.18

Intensity data(cd)

<b>C/γ(°)</b>	<b>90.0</b>
<b>0.0</b>	<b>11.18</b>
<b>45.0</b>	<b>11.18</b>
<b>90.0</b>	<b>11.18</b>
<b>135.0</b>	<b>11.18</b>
<b>180.0</b>	<b>11.13</b>
<b>225.0</b>	<b>11.18</b>
<b>270.0</b>	<b>11.18</b>
<b>315.0</b>	<b>11.18</b>
<b>360.0</b>	<b>11.18</b>