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## NATA

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Client:

LumCAT: 2-2643-L

Luminaire: 92.70.411.00

Report No: 2023614-B005

Ballast type: AC

Test No: 2023614-C005

Voltage(V): 34.170

LampCAT: SLM C 1208 L15 2024 G7 HE+

Current(A): 0.480

Lamp flux(lm): 2554.4

Power (W): 16.401

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): 2465.99, Efficiency(%): 96.54% , Luminous Efficacy(lm/W): 150.36

Central intensity(cd): 13546.130, Maximum intensity(cd): 13546.130

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

Beam Angle(50%Imax): [C0/180]Total=18.4

[C90/270]Total=18.4

Field angle(10%Imax): [C0/180]Total=45.2

[C90/270]Total=45.2

Maximum s/h(1/2): C0\_180=0.31 C90\_270=0.31

Maximum s/h(1/4): C0\_180=0.33 C90\_270=0.33

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 96.54%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 98.441%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	13546.133	0.000	0	0.00%	0.00%
1.0	13477.633	12.930	12.93	0.51%	0.52%
2.0	13207.092	38.300	51.231	1.50%	2.08%
3.0	12647.530	61.836	113.067	2.42%	4.59%
4.0	11834.579	81.949	195.016	3.21%	7.91%
5.0	11171.367	98.970	293.986	3.87%	11.92%
6.0	10253.881	112.595	406.582	4.41%	16.49%
7.0	9173.794	120.587	527.169	4.72%	21.38%
8.0	8066.445	123.385	650.554	4.83%	26.38%
9.0	6939.376	121.614	772.168	4.76%	31.31%
10.0	5936.715	116.524	888.692	4.56%	36.04%
11.0	5088.490	110.164	998.857	4.31%	40.51%
12.0	4346.891	103.142	1101.999	4.04%	44.69%
13.0	3766.300	96.283	1198.282	3.77%	48.59%
14.0	3312.678	90.610	1288.892	3.55%	52.27%
15.0	2946.098	85.923	1374.815	3.36%	55.75%
16.0	2687.390	82.546	1457.362	3.23%	59.10%
17.0	2506.376	80.881	1538.243	3.17%	62.38%
18.0	2179.077	77.253	1615.496	3.02%	65.51%
19.0	1966.935	72.132	1687.628	2.82%	68.44%
20.0	1781.293	68.603	1756.231	2.69%	71.22%
21.0	1633.153	65.564	1821.795	2.57%	73.88%
22.0	1454.001	62.038	1883.833	2.43%	76.39%
23.0	1284.978	57.471	1941.304	2.25%	78.72%
24.0	1165.947	53.586	1994.89	2.10%	80.90%
25.0	1080.004	51.068	2045.958	2.00%	82.97%
26.0	981.274	48.657	2094.615	1.90%	84.94%
27.0	893.110	45.857	2140.472	1.80%	86.80%
28.0	800.565	42.880	2183.352	1.68%	88.54%
29.0	699.766	39.253	2222.605	1.54%	90.13%
30.0	609.671	35.355	2257.96	1.38%	91.56%
31.0	514.602	31.287	2289.246	1.22%	92.83%
32.0	426.091	26.950	2316.196	1.06%	93.93%
33.0	332.599	22.351	2338.547	0.88%	94.83%
34.0	259.505	17.919	2356.466	0.70%	95.56%
35.0	217.138	14.803	2371.269	0.58%	96.16%
36.0	125.210	10.900	2382.169	0.43%	96.60%
37.0	61.809	6.100	2388.269	0.24%	96.85%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	37.537	3.316	2391.585	0.13%	96.98%
39.0	29.531	2.289	2393.874	0.09%	97.08%
40.0	26.597	1.958	2395.832	0.08%	97.16%
41.0	24.840	1.832	2397.663	0.07%	97.23%
42.0	23.767	1.766	2399.429	0.07%	97.30%
43.0	22.667	1.720	2401.15	0.07%	97.37%
44.0	21.671	1.673	2402.823	0.07%	97.44%
45.0	20.910	1.636	2404.459	0.06%	97.50%
46.0	20.232	1.609	2406.068	0.06%	97.57%
47.0	19.685	1.588	2407.656	0.06%	97.63%
48.0	19.263	1.574	2409.23	0.06%	97.70%
49.0	18.862	1.566	2410.796	0.06%	97.76%
50.0	18.509	1.558	2412.354	0.06%	97.83%
51.0	18.218	1.554	2413.908	0.06%	97.89%
52.0	17.879	1.549	2415.457	0.06%	97.95%
53.0	17.568	1.542	2416.999	0.06%	98.01%
54.0	17.277	1.536	2418.535	0.06%	98.08%
55.0	16.938	1.527	2420.062	0.06%	98.14%
56.0	16.599	1.515	2421.578	0.06%	98.20%
57.0	16.295	1.504	2423.082	0.06%	98.26%
58.0	16.018	1.494	2424.576	0.06%	98.32%
59.0	15.769	1.486	2426.062	0.06%	98.38%
60.0	15.457	1.475	2427.537	0.06%	98.44%
61.0	15.153	1.461	2428.998	0.06%	98.50%
62.0	14.779	1.442	2430.44	0.06%	98.56%
63.0	14.482	1.423	2431.863	0.06%	98.62%
64.0	14.150	1.405	2433.268	0.06%	98.67%
65.0	13.825	1.384	2434.653	0.05%	98.73%
66.0	13.499	1.363	2436.016	0.05%	98.78%
67.0	13.216	1.343	2437.359	0.05%	98.84%
68.0	12.932	1.325	2438.684	0.05%	98.89%
69.0	12.724	1.309	2439.993	0.05%	98.95%
70.0	12.531	1.297	2441.29	0.05%	99.00%
71.0	12.385	1.288	2442.578	0.05%	99.05%
72.0	12.226	1.280	2443.857	0.05%	99.10%
73.0	12.081	1.271	2445.128	0.05%	99.15%
74.0	11.943	1.263	2446.391	0.05%	99.21%
75.0	11.804	1.255	2447.646	0.05%	99.26%

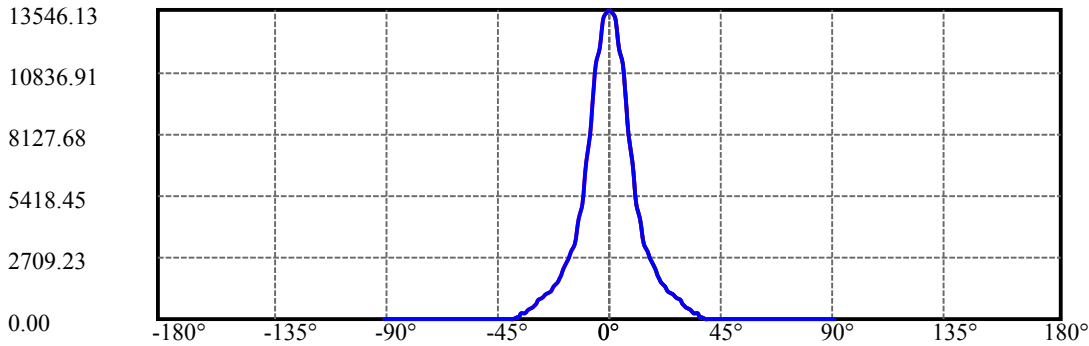
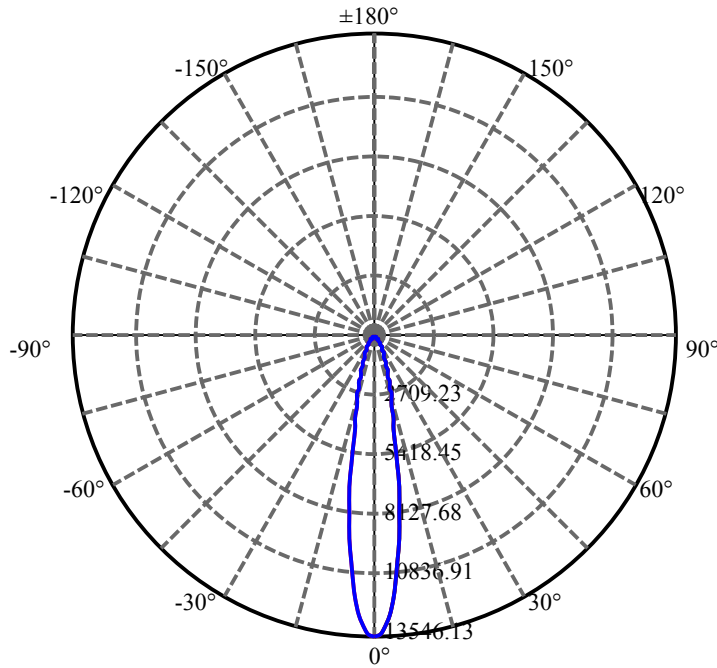
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	11.714	1.248	2448.895	0.05%	99.31%
77.0	11.631	1.245	2450.139	0.05%	99.36%
78.0	11.569	1.242	2451.381	0.05%	99.41%
79.0	11.514	1.240	2452.621	0.05%	99.46%
80.0	11.458	1.238	2453.86	0.05%	99.51%
81.0	11.389	1.236	2455.095	0.05%	99.56%
82.0	11.341	1.233	2456.328	0.05%	99.61%
83.0	11.271	1.229	2457.557	0.05%	99.66%
84.0	11.237	1.226	2458.783	0.05%	99.71%
85.0	11.168	1.223	2460.006	0.05%	99.76%
86.0	11.064	1.215	2461.221	0.05%	99.81%
87.0	10.974	1.206	2462.427	0.05%	99.86%
88.0	10.884	1.197	2463.625	0.05%	99.90%
89.0	10.780	1.187	2464.812	0.05%	99.95%
90.0	10.683	1.177	2465.989	0.05%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2257.96	88.40%	91.56%
0-40	2395.83	93.79%	97.16%
0-60	2427.54	95.03%	98.44%
0-90	2464.81	96.49%	99.95%
0-120	2464.81	96.49%	99.95%
0-180	2465.99	96.54%	100.00%
60-90	37.28	1.46%	1.51%
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%
0-23.59	1972.79	77.23%	80.00%

ZONAL LUMEN SUMMARY

0-10	888.69
10-20	867.54
20-30	501.73
30-40	137.87
40-50	16.52
50-60	15.18
60-70	13.75
70-80	12.57
80-90	10.95
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



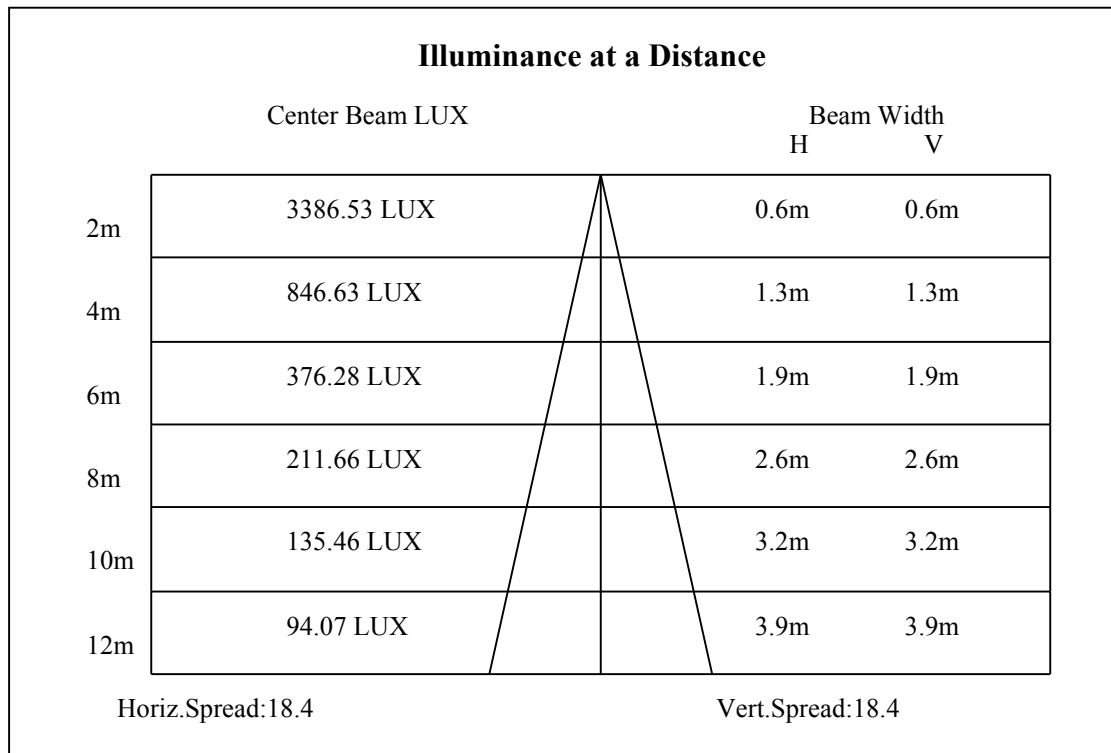
C0(Max): —————

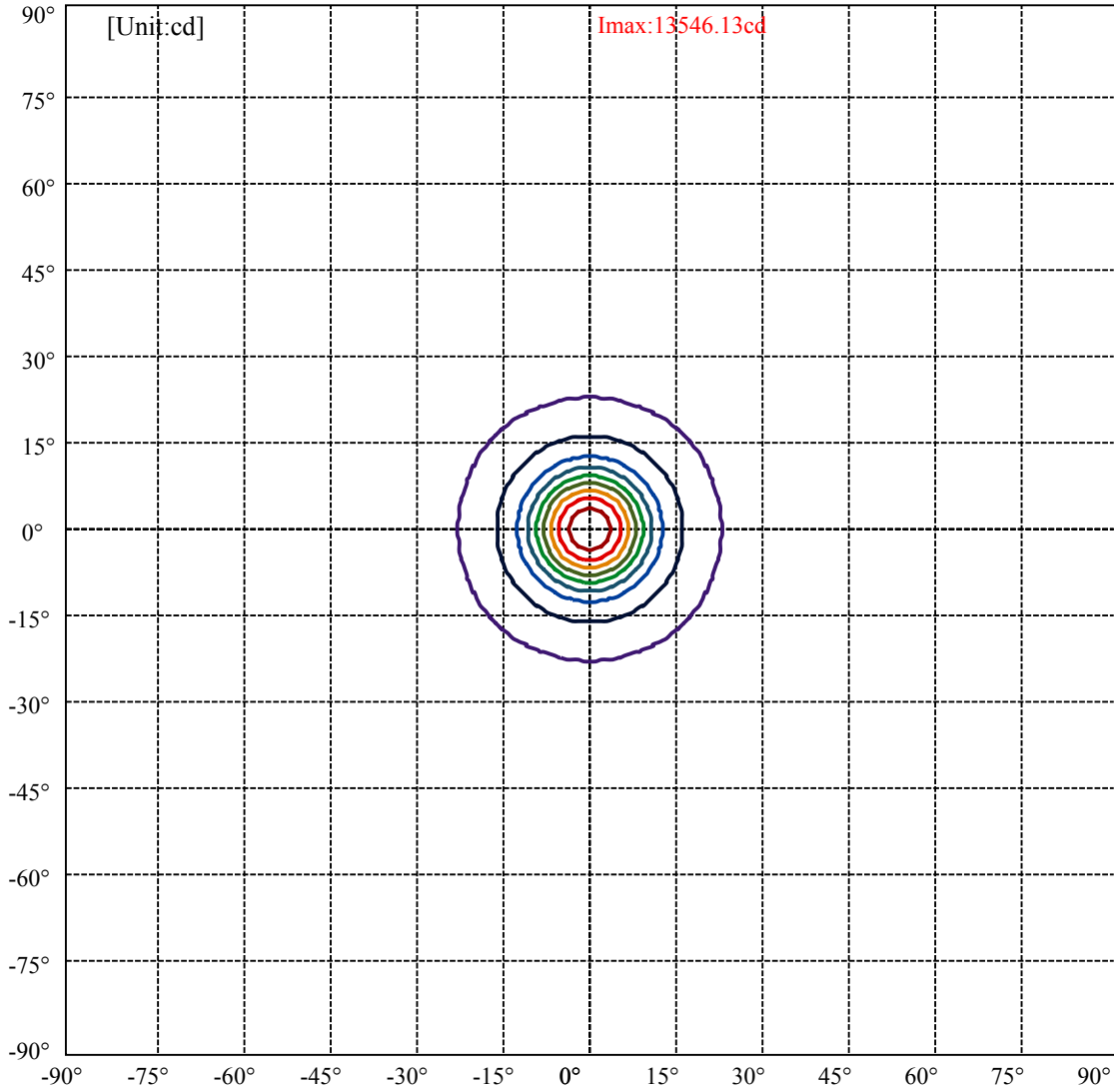
C0/C180: —————

C90/C270: —————

Field angle(10%Imax):C0/180Left:22.6 Right:22.6  
:C90/270Left:22.6 Right:22.6

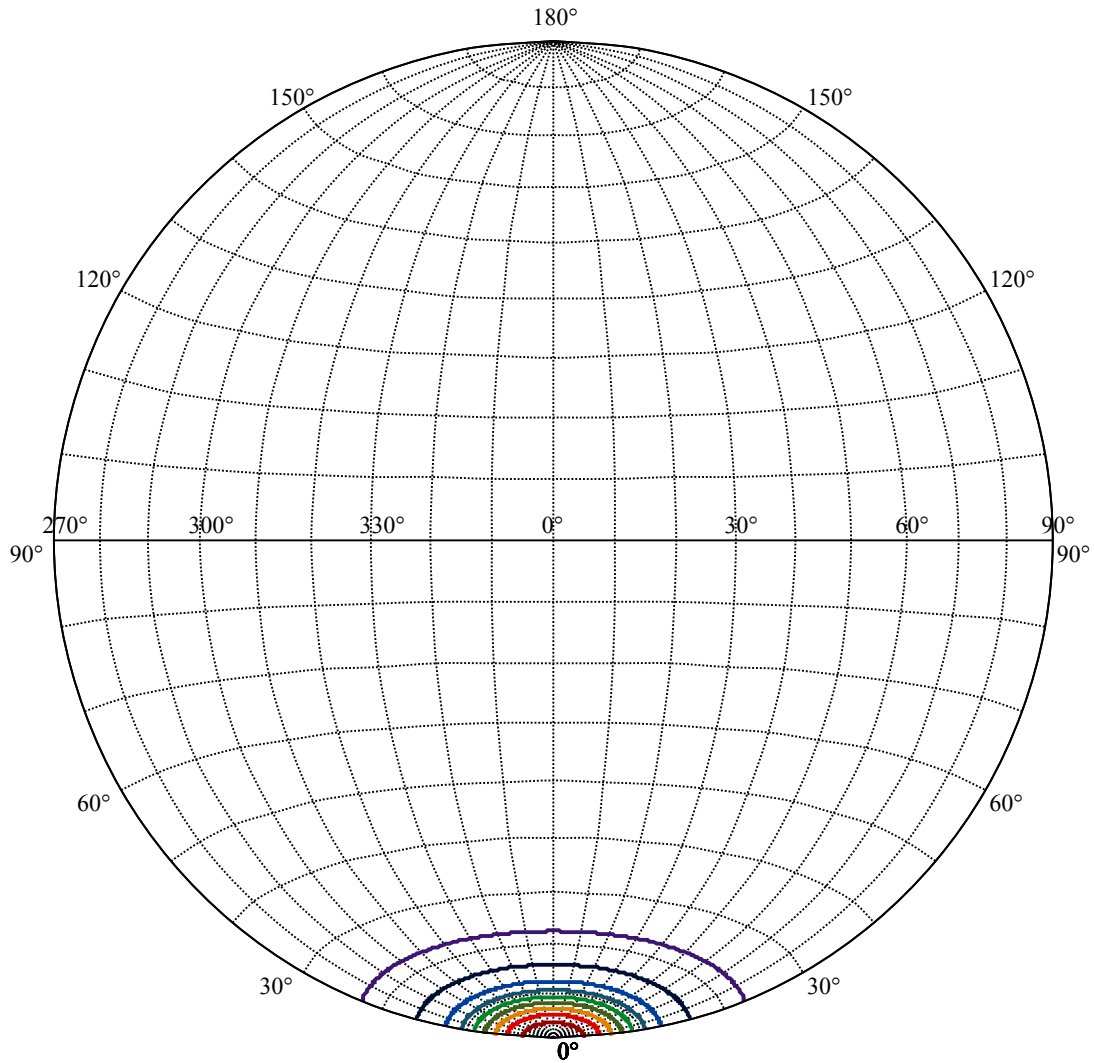
Beam Angle(50%Imax):C0/180Left:9.2 Right:9.2  
:C90/270Left:9.2 Right:9.2





(10%Imax) 1354.61	—
(20%Imax) 2709.23	—
(30%Imax) 4063.84	—
(40%Imax) 5418.45	—
(50%Imax) 6773.07	—
(60%Imax) 8127.68	—
(70%Imax) 9482.29	—
(80%Imax) 10836.9	—
(90%Imax) 12191.5	—





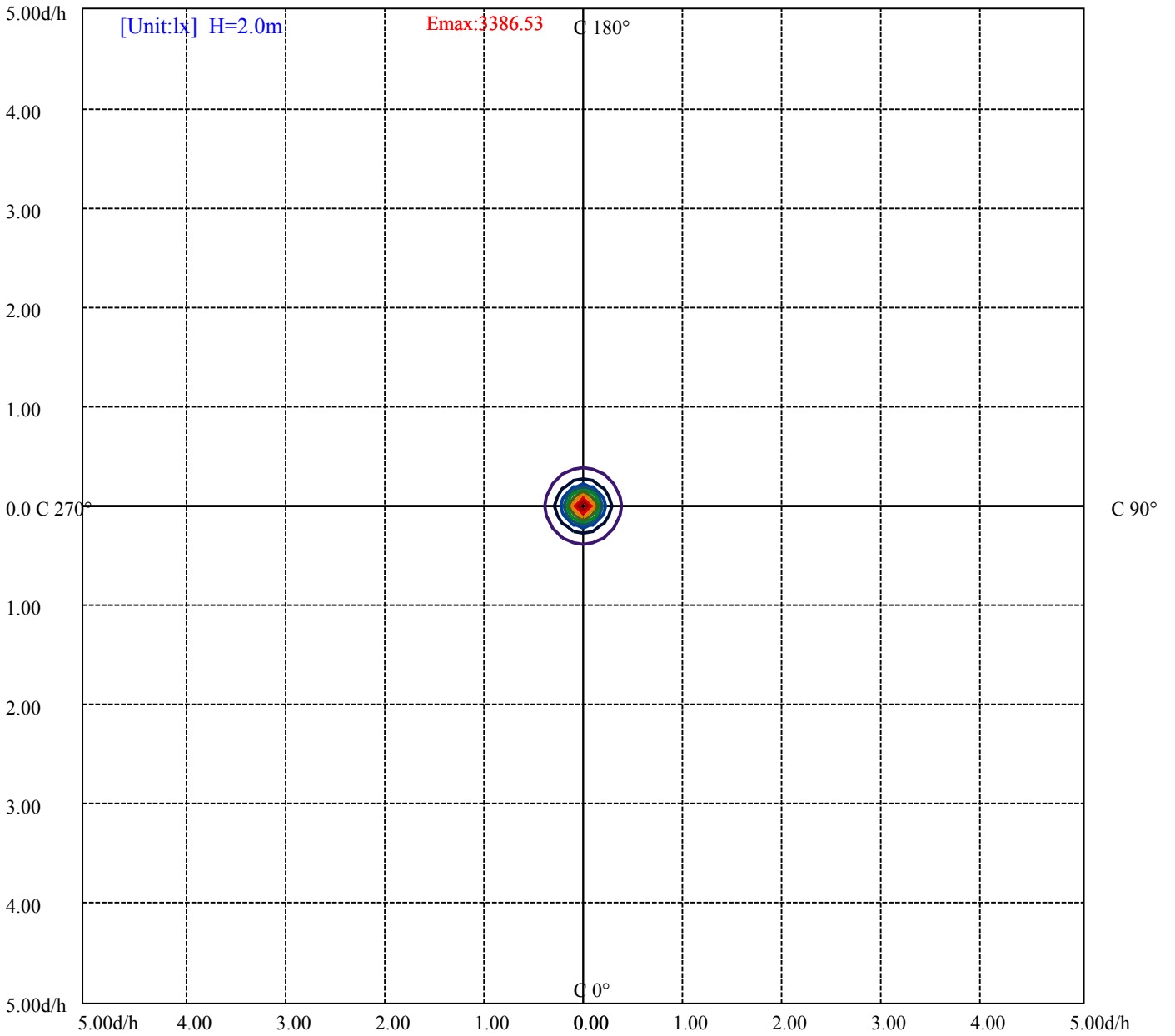
House

[Unit:cd]

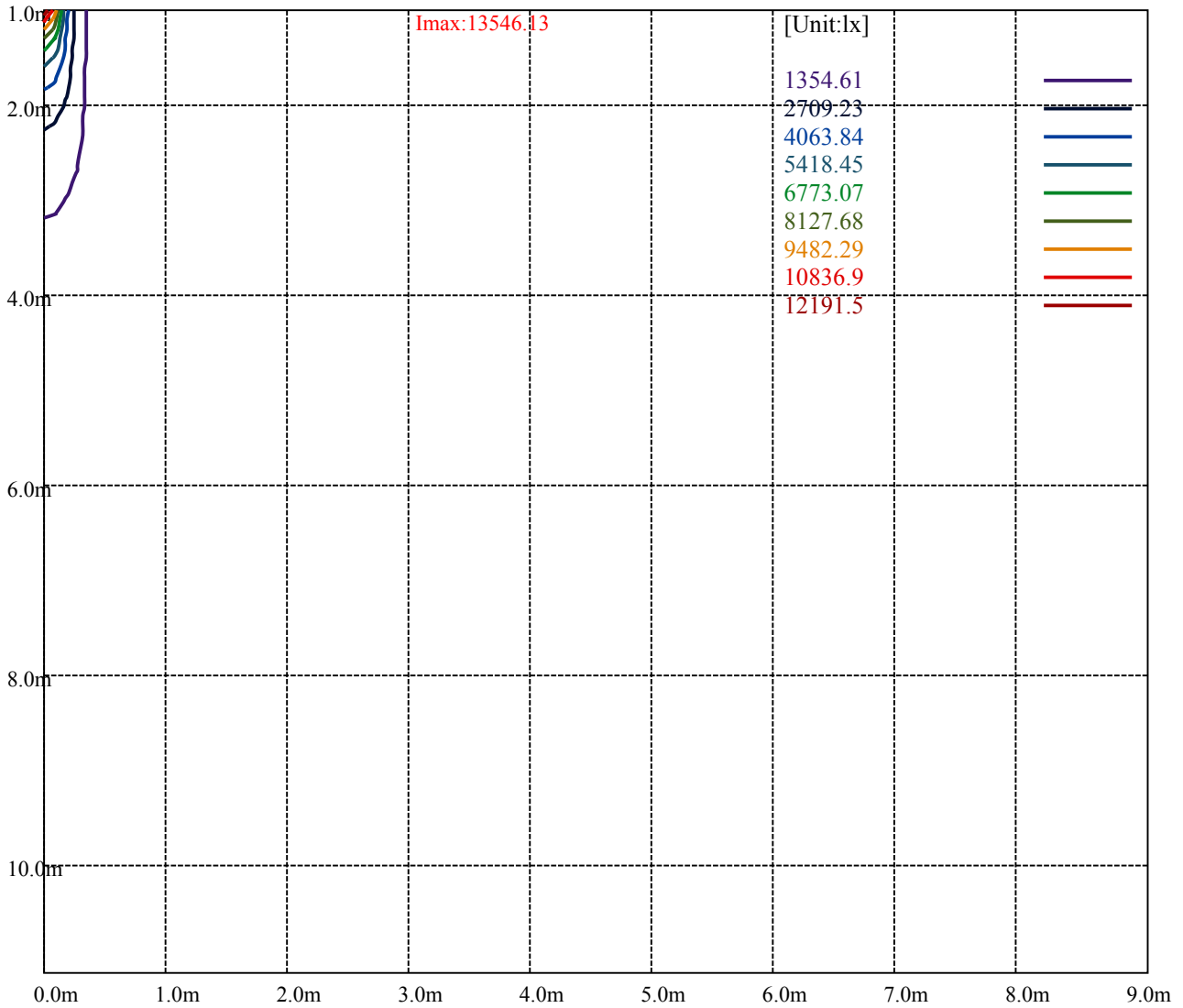
Road

**Imax:13546.13**

(10%Imax)	1354.61	—
(20%Imax)	2709.23	—
(30%Imax)	4063.84	—
(40%Imax)	5418.45	—
(50%Imax)	6773.07	—
(60%Imax)	8127.68	—
(70%Imax)	9482.29	—
(80%Imax)	10836.9	—
(90%Imax)	12191.5	—



- (10%Emax) 338.6525
- (20%Emax) 677.305
- (30%Emax) 1015.96
- (40%Emax) 1354.613
- (50%Emax) 1693.265
- (60%Emax) 2031.917
- (70%Emax) 2370.573
- (80%Emax) 2709.225
- (90%Emax) 3047.875



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

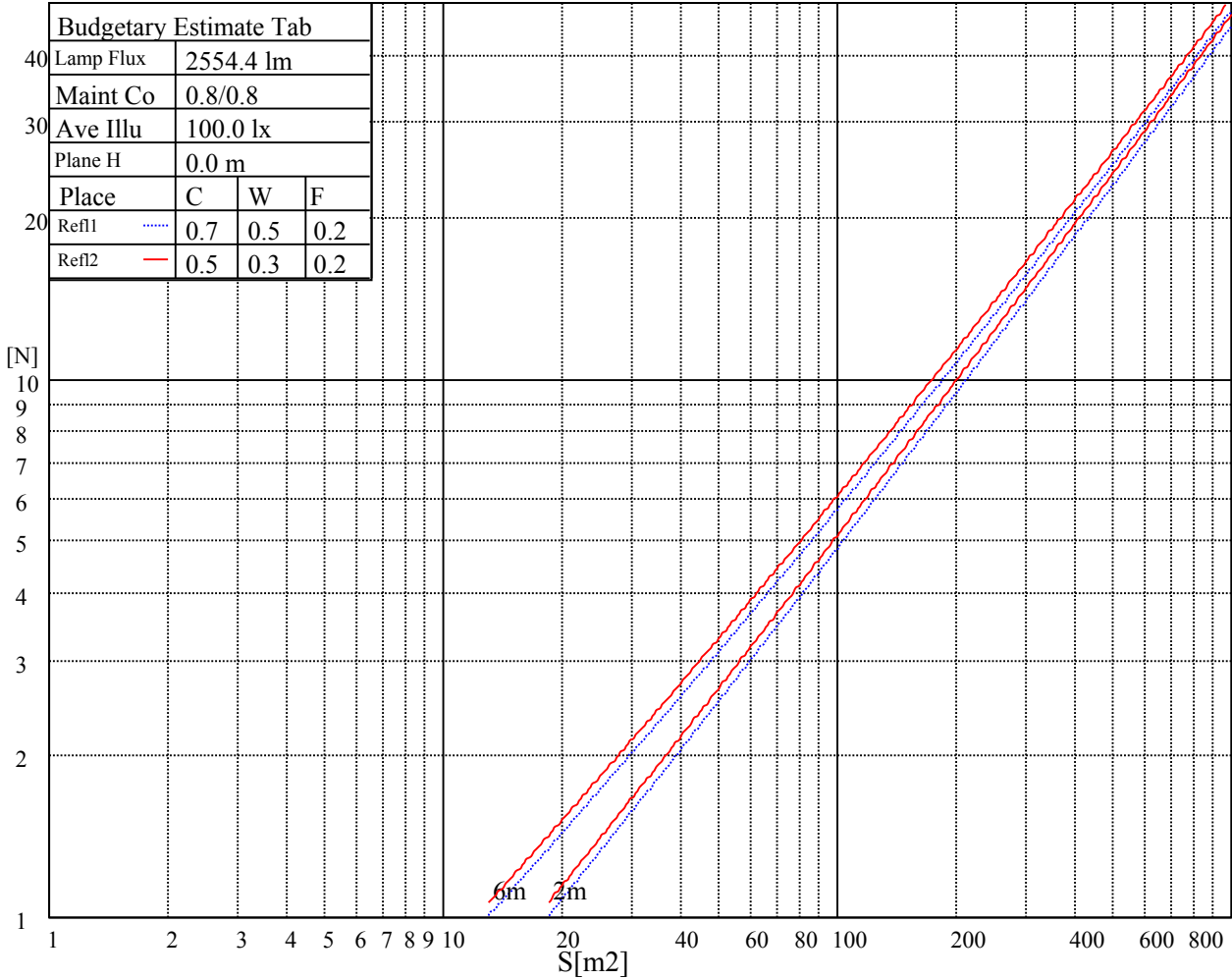
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

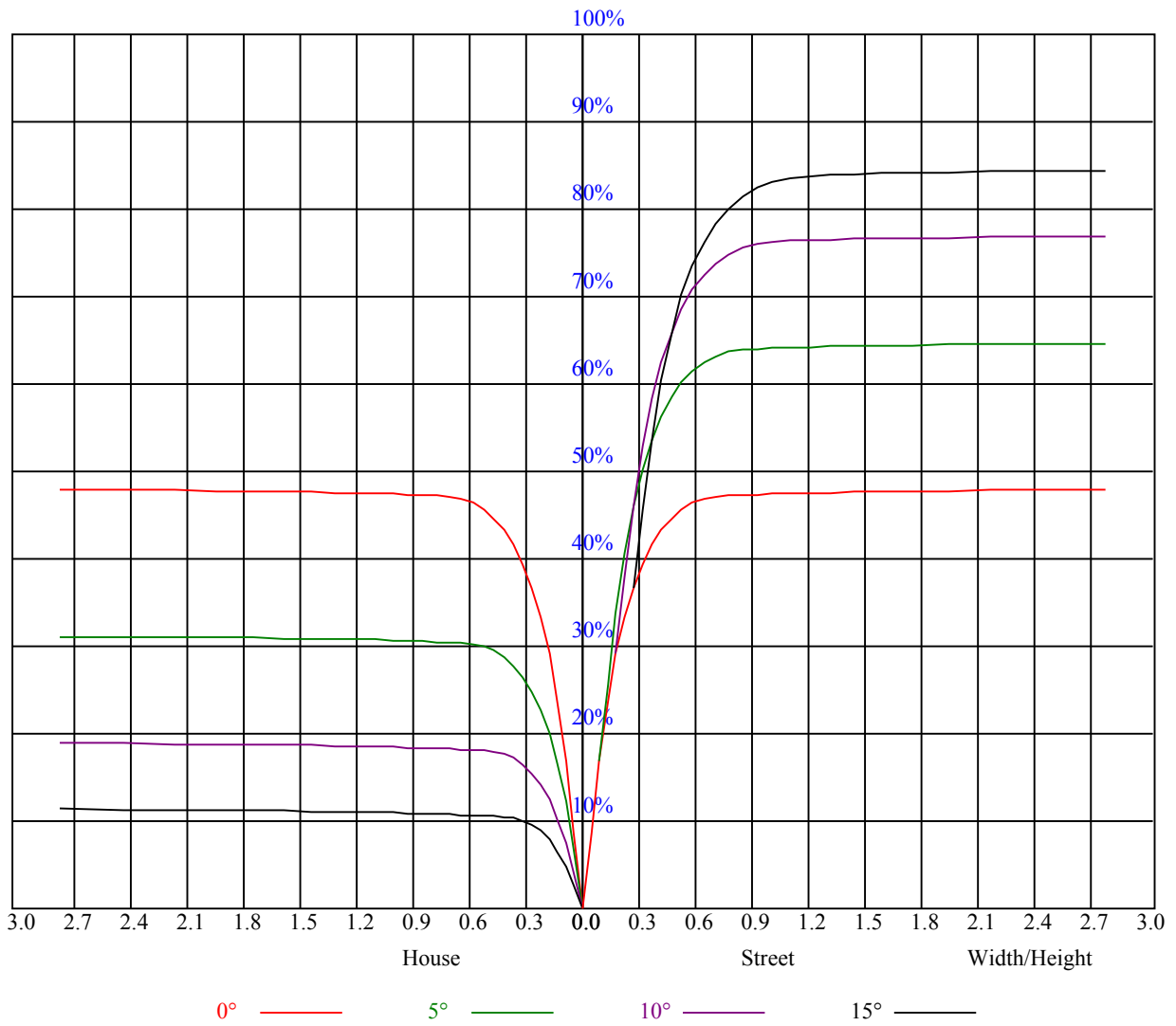


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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	1.15	1.15	1.15	1.12	1.12	1.12	1.07	1.07	1.07	1.03	1.03	1.03	0.99	0.99	0.99	0.97
1	1.08	1.06	1.05	1.06	1.05	1.03	1.02	1.01	1.00	0.99	0.98	0.97	0.96	0.95	0.94	0.92
2	1.03	1.00	0.97	1.01	0.98	0.96	0.98	0.96	0.94	0.95	0.94	0.92	0.93	0.91	0.90	0.89
3	0.98	0.94	0.91	0.97	0.93	0.91	0.94	0.92	0.89	0.92	0.90	0.88	0.90	0.88	0.87	0.85
4	0.94	0.90	0.87	0.93	0.89	0.86	0.91	0.88	0.85	0.89	0.87	0.84	0.88	0.85	0.84	0.82
5	0.90	0.86	0.83	0.90	0.86	0.83	0.88	0.85	0.82	0.86	0.84	0.81	0.85	0.83	0.81	0.79
6	0.87	0.83	0.80	0.86	0.82	0.79	0.85	0.82	0.79	0.84	0.81	0.78	0.83	0.80	0.78	0.77
7	0.84	0.80	0.77	0.83	0.79	0.77	0.82	0.79	0.76	0.81	0.78	0.76	0.80	0.78	0.76	0.74
8	0.81	0.77	0.74	0.81	0.77	0.74	0.80	0.76	0.74	0.79	0.76	0.74	0.78	0.75	0.73	0.72
9	0.79	0.75	0.72	0.78	0.74	0.72	0.78	0.74	0.72	0.77	0.74	0.71	0.76	0.73	0.71	0.70
10	0.77	0.72	0.70	0.76	0.72	0.70	0.75	0.72	0.70	0.75	0.72	0.69	0.74	0.71	0.69	0.68





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	13568.27	13424.36	13136.52	12704.76	11010.88	11010.88	9803.62	8784.56	7766.61
45.0	13573.81	13523.99	13346.86	12904.03	12356.03	11619.83	10712.03	9748.88	8475.74
90.0	13463.10	13208.48	12660.48	10885.23	10885.23	10138.51	8881.43	7840.23	6825.60
135.0	13579.35	13474.17	13070.09	12549.77	11808.03	10629.00	9593.89	8564.31	7274.57
180.0	13568.27	13562.74	13374.54	13009.20	12477.81	11475.91	10540.43	9477.64	8414.85
225.0	13573.81	13485.24	13153.12	12726.90	10967.15	10967.15	9935.36	8572.00	7507.00
270.0	13463.10	13573.81	13568.27	13357.93	13003.67	12516.56	11802.49	10651.14	9599.42
315.0	13579.35	13568.27	13346.86	13042.42	12167.83	11013.10	10761.79	9751.59	8667.76
360.0	13568.27	13424.36	13136.52	12704.76	11010.88	11010.88	9803.62	8784.56	7766.61
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	6557.69	5696.38	4940.81	4171.95	3693.14	3307.88	2976.86	2612.63	2375.72
45.0	7440.63	6261.60	5431.30	4700.63	3969.96	3504.99	3139.66	2824.14	2824.14
90.0	5689.19	4892.65	4098.33	3587.96	3188.87	2859.51	2517.43	2282.17	2082.35
135.0	6316.95	5492.18	4750.45	4008.71	3532.67	3156.26	2851.82	2851.82	2312.06
180.0	7136.19	6189.64	5148.99	4457.07	3898.00	3361.07	3012.34	2862.89	2862.89
225.0	6493.48	5379.76	4635.81	4014.19	3511.02	3042.18	2742.16	2494.18	2277.75
270.0	8276.47	7230.29	6228.39	5115.78	4379.58	3776.22	3311.25	2846.28	2846.28
315.0	7604.42	6351.22	5473.86	4718.84	3957.17	3493.31	3017.27	2725.00	2469.82
360.0	6557.69	5696.38	4940.81	4171.95	3693.14	3307.88	2976.86	2612.63	2375.72
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2167.59	1979.39	1773.47	1622.91	1481.76	1100.87	1100.87	1075.58	972.84
45.0	2282.17	2095.08	1879.20	1729.74	1591.36	1455.74	1296.33	1165.14	1063.29
90.0	1900.79	1704.84	1560.36	1420.32	1099.71	1099.71	1020.06	941.62	844.64
135.0	2111.68	1940.64	1751.33	1609.63	1438.03	1310.72	1185.62	1051.66	974.72
180.0	2203.57	2014.26	1845.43	1697.64	1517.74	1385.45	1264.77	1135.25	1011.25
225.0	2037.51	1866.47	1707.60	1567.56	1404.27	1088.92	1088.92	1022.10	943.83
270.0	2522.41	2115.56	1879.75	1717.01	1567.01	1435.82	1274.18	1151.85	1015.68
315.0	2206.89	2019.24	1853.18	1700.41	1532.13	1402.60	1096.83	1096.83	1023.93
360.0	2167.59	1979.39	1773.47	1622.91	1481.76	1100.87	1100.87	1075.58	972.84
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	891.86	803.57	689.60	602.58	513.63	426.17	320.83	239.96	165.95
45.0	959.22	875.09	761.61	674.71	586.69	499.79	390.19	309.92	290.55
90.0	757.18	648.91	567.49	489.99	390.74	310.42	234.87	167.61	96.20
135.0	890.58	798.70	686.88	598.87	514.73	430.04	324.32	283.36	283.36
180.0	936.53	854.60	741.13	653.67	542.41	453.29	371.37	287.23	287.23
225.0	837.00	742.35	651.62	562.89	454.18	369.93	287.73	212.39	130.14
270.0	928.78	823.61	732.83	644.26	556.80	450.52	369.15	293.87	293.87
315.0	943.72	857.70	766.98	650.40	557.63	468.57	362.34	281.69	189.81
360.0	891.86	803.57	689.60	602.58	513.63	426.17	320.83	239.96	165.95
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	103.23	55.24	29.28	25.74	22.14	20.87	19.71	18.88	18.16
45.0	290.55	77.27	41.57	30.56	27.68	24.91	24.02	23.19	21.92
90.0	56.13	39.91	36.04	33.38	32.60	31.99	31.44	30.39	29.34
135.0	87.35	48.05	33.27	29.45	27.46	26.24	25.30	24.36	23.53
180.0	121.78	69.08	38.86	27.73	24.96	23.25	22.36	21.64	20.87
225.0	75.72	40.74	28.06	25.57	22.53	20.98	19.87	18.88	17.93
270.0	140.49	90.56	53.58	36.53	31.05	28.06	26.46	24.63	23.30
315.0	126.43	73.62	39.63	27.29	24.36	22.42	20.98	19.37	18.32
360.0	103.23	55.24	29.28	25.74	22.14	20.87	19.71	18.88	18.16

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	17.66	17.27	17.05	16.94	16.77	16.55	16.33	16.16	15.94
45.0	21.09	20.59	20.09	19.71	19.48	19.32	18.99	18.71	18.38
90.0	28.56	27.40	26.57	25.74	24.96	24.02	23.47	22.58	21.75
135.0	22.81	22.20	21.59	21.09	20.70	20.20	19.82	19.43	18.88
180.0	20.15	19.65	19.15	18.82	18.43	18.10	17.71	17.33	16.94
225.0	17.49	17.10	16.55	16.22	16.05	15.78	15.61	15.39	15.17
270.0	22.09	21.09	20.48	19.98	19.10	18.76	18.54	18.10	18.10
315.0	17.44	16.55	16.00	15.61	15.39	15.33	15.28	15.33	15.39
360.0	17.66	17.27	17.05	16.94	16.77	16.55	16.33	16.16	15.94
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	15.78	15.55	15.39	15.22	15.06	14.95	14.78	14.67	14.50
45.0	17.93	17.60	17.27	16.94	16.61	16.27	15.83	15.39	14.89
90.0	21.31	20.54	19.71	19.04	18.43	17.93	17.27	16.72	16.22
135.0	18.49	18.05	17.77	17.49	17.05	16.77	16.38	15.94	15.44
180.0	16.55	16.16	15.89	15.61	15.39	15.11	14.95	14.61	14.39
225.0	14.95	14.72	14.56	14.34	14.28	14.17	14.00	13.84	13.62
270.0	17.82	17.55	17.05	16.66	16.44	16.16	16.00	15.78	15.28
315.0	15.39	15.33	15.17	15.06	14.89	14.78	14.45	14.28	13.89
360.0	15.78	15.55	15.39	15.22	15.06	14.95	14.78	14.67	14.50
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	14.39	14.23	14.06	13.89	13.56	13.34	13.12	12.95	12.79
45.0	14.39	14.00	13.67	13.28	13.01	12.79	12.51	12.34	12.29
90.0	15.72	15.17	14.56	14.06	13.56	13.17	12.90	12.62	12.45
135.0	15.06	14.67	14.28	13.84	13.51	13.12	12.90	12.68	12.45
180.0	14.17	13.89	13.62	13.34	13.12	12.79	12.62	12.45	12.29
225.0	13.45	13.17	12.95	12.73	12.62	12.40	12.29	12.18	12.07
270.0	15.00	14.56	14.23	13.84	13.51	13.17	12.95	12.68	12.51
315.0	13.67	13.51	13.23	13.01	12.84	12.68	12.51	12.34	12.23
360.0	14.39	14.23	14.06	13.89	13.56	13.34	13.12	12.95	12.79
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	12.62	12.34	12.12	11.90	11.79	11.68	11.62	11.51	11.46
45.0	12.12	12.01	11.90	11.73	11.62	11.51	11.46	11.40	11.35
90.0	12.29	12.12	12.01	11.90	11.85	11.85	11.73	11.68	11.62
135.0	12.29	12.12	11.90	11.73	11.62	11.57	11.51	11.46	11.40
180.0	12.12	12.01	11.90	11.73	11.62	11.57	11.46	11.40	11.35
225.0	11.96	11.85	11.73	11.62	11.57	11.46	11.40	11.40	11.35
270.0	12.34	12.23	12.12	12.07	12.01	11.90	11.90	11.85	11.79
315.0	12.07	11.96	11.85	11.73	11.62	11.51	11.46	11.40	11.35
360.0	12.62	12.34	12.12	11.90	11.79	11.68	11.62	11.51	11.46
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	11.40	11.35	11.35	11.29	11.24	11.13	11.07	11.02	10.90
45.0	11.29	11.24	11.18	11.18	11.13	11.07	10.96	10.85	10.79
90.0	11.57	11.46	11.35	11.24	11.13	11.02	10.90	10.79	10.74
135.0	11.35	11.29	11.24	11.18	11.13	11.02	10.96	10.85	10.68
180.0	11.29	11.29	11.18	11.18	11.18	11.07	11.02	10.96	10.85
225.0	11.24	11.24	11.18	11.18	11.13	11.02	10.96	10.90	10.74
270.0	11.73	11.62	11.51	11.46	11.29	11.18	11.02	10.90	10.79
315.0	11.24	11.24	11.18	11.18	11.13	11.02	10.90	10.79	10.74
360.0	11.40	11.35	11.35	11.29	11.24	11.13	11.07	11.02	10.90

Intensity data(cd)

<b>C/γ(°)</b>	<b>90.0</b>
<b>0.0</b>	<b>10.79</b>
<b>45.0</b>	<b>10.68</b>
<b>90.0</b>	<b>10.68</b>
<b>135.0</b>	<b>10.57</b>
<b>180.0</b>	<b>10.68</b>
<b>225.0</b>	<b>10.68</b>
<b>270.0</b>	<b>10.68</b>
<b>315.0</b>	<b>10.68</b>
<b>360.0</b>	<b>10.79</b>