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NT

LumCAT: 2-2641-L
Luminaire: 92.70.412.00
LampCAT: Fortimo_SLM_C_1208
Ballast type: AC
Report No: 20231031-B020
Test No: 20231031-C020
Number of Lamps: 1
Lamp flux(lm): 3260.6
Length(mm): 0
Phm Type: C

Voltage(V): 34.6500
Current(A): 0.5760
Power (W): 19.9580
PF: 0.0000
Width(mm): 0
Height(mm): 0

Photometric Results

Lumens(lm): 2999.20, Efficiency(%): 91.98% , Luminous Efficacy(lm/W): 150.28
Central intensity(cd): 6541.135, Maximum intensity(cd): 6541.135
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=37.2
[C90/270]Total=37.2
Field angle(10%Imax): [C0/180]Total=65.8
[C90/270]Total=65.8
Maximum s/h(1/2): C0_180=0.60 C90_270=0.60
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(%): 91.98%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.992%

Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/10/31
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	6541.135	0.000	0	0.00%	0.00%
1.0	6528.473	6.254	6.254	0.19%	0.21%
2.0	6490.694	18.686	24.94	0.57%	0.83%
3.0	6428.629	30.899	55.839	0.95%	1.86%
4.0	6332.175	42.714	98.553	1.31%	3.29%
5.0	6219.738	53.998	152.551	1.66%	5.09%
6.0	6071.390	64.593	217.144	1.98%	7.24%
7.0	5919.030	74.424	291.568	2.28%	9.72%
8.0	5733.457	83.395	374.963	2.56%	12.50%
9.0	5537.159	91.342	466.305	2.80%	15.55%
10.0	5331.659	98.359	564.664	3.02%	18.83%
11.0	5105.816	104.292	668.956	3.20%	22.30%
12.0	4880.043	109.160	778.116	3.35%	25.94%
13.0	4648.180	113.076	891.191	3.47%	29.71%
14.0	4400.127	115.818	1007.009	3.55%	33.58%
15.0	4168.818	117.638	1124.647	3.61%	37.50%
16.0	3918.205	118.498	1243.145	3.63%	41.45%
17.0	3675.271	118.251	1361.396	3.63%	45.39%
18.0	3423.067	117.036	1478.432	3.59%	49.29%
19.0	3182.417	114.922	1593.354	3.52%	53.13%
20.0	2916.166	111.621	1704.975	3.42%	56.85%
21.0	2685.134	107.556	1812.531	3.30%	60.43%
22.0	2458.669	103.367	1915.898	3.17%	63.88%
23.0	2235.109	98.488	2014.386	3.02%	67.16%
24.0	2028.502	93.218	2107.604	2.86%	70.27%
25.0	1828.745	87.705	2195.309	2.69%	73.20%
26.0	1636.944	81.808	2277.117	2.51%	75.92%
27.0	1428.967	75.008	2352.125	2.30%	78.43%
28.0	1242.681	67.640	2419.766	2.07%	80.68%
29.0	1139.578	62.327	2482.093	1.91%	82.76%
30.0	1002.897	57.846	2539.939	1.77%	84.69%
31.0	874.372	52.242	2592.181	1.60%	86.43%
32.0	751.474	46.579	2638.759	1.43%	87.98%
33.0	637.002	40.905	2679.664	1.25%	89.35%
34.0	534.619	35.457	2715.121	1.09%	90.53%
35.0	444.683	30.413	2745.534	0.93%	91.54%
36.0	371.693	25.994	2771.528	0.80%	92.41%
37.0	298.667	21.863	2793.391	0.67%	93.14%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	252.848	18.409	2811.8	0.56%	93.75%
39.0	219.332	16.117	2827.917	0.49%	94.29%
40.0	177.976	13.857	2841.774	0.42%	94.75%
41.0	128.697	10.920	2852.694	0.33%	95.12%
42.0	107.621	8.586	2861.28	0.26%	95.40%
43.0	92.759	7.423	2868.703	0.23%	95.65%
44.0	81.363	6.572	2875.274	0.20%	95.87%
45.0	72.908	5.929	2881.203	0.18%	96.07%
46.0	66.438	5.450	2886.653	0.17%	96.25%
47.0	60.896	5.064	2891.717	0.16%	96.42%
48.0	56.523	4.747	2896.464	0.15%	96.57%
49.0	52.752	4.487	2900.951	0.14%	96.72%
50.0	49.216	4.251	2905.203	0.13%	96.87%
51.0	46.116	4.033	2909.236	0.12%	97.00%
52.0	43.473	3.844	2913.08	0.12%	97.13%
53.0	41.114	3.680	2916.76	0.11%	97.25%
54.0	38.858	3.525	2920.285	0.11%	97.37%
55.0	36.997	3.386	2923.671	0.10%	97.48%
56.0	35.226	3.264	2926.934	0.10%	97.59%
57.0	33.717	3.152	2930.087	0.10%	97.70%
58.0	32.250	3.051	2933.137	0.09%	97.80%
59.0	30.977	2.956	2936.093	0.09%	97.90%
60.0	29.856	2.874	2938.967	0.09%	97.99%
61.0	28.777	2.798	2941.765	0.09%	98.08%
62.0	27.815	2.727	2944.492	0.08%	98.18%
63.0	26.867	2.659	2947.152	0.08%	98.26%
64.0	26.030	2.596	2949.747	0.08%	98.35%
65.0	25.276	2.539	2952.286	0.08%	98.44%
66.0	24.556	2.486	2954.773	0.08%	98.52%
67.0	23.809	2.432	2957.205	0.07%	98.60%
68.0	23.103	2.376	2959.581	0.07%	98.68%
69.0	22.446	2.324	2961.905	0.07%	98.76%
70.0	21.768	2.271	2964.175	0.07%	98.83%
71.0	21.131	2.217	2966.393	0.07%	98.91%
72.0	20.515	2.166	2968.558	0.07%	98.98%
73.0	19.893	2.113	2970.671	0.06%	99.05%
74.0	19.291	2.060	2972.731	0.06%	99.12%
75.0	18.703	2.007	2974.739	0.06%	99.18%

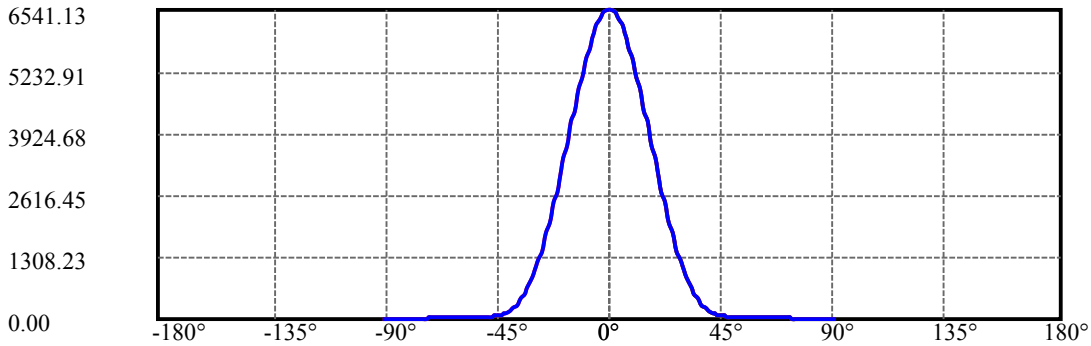
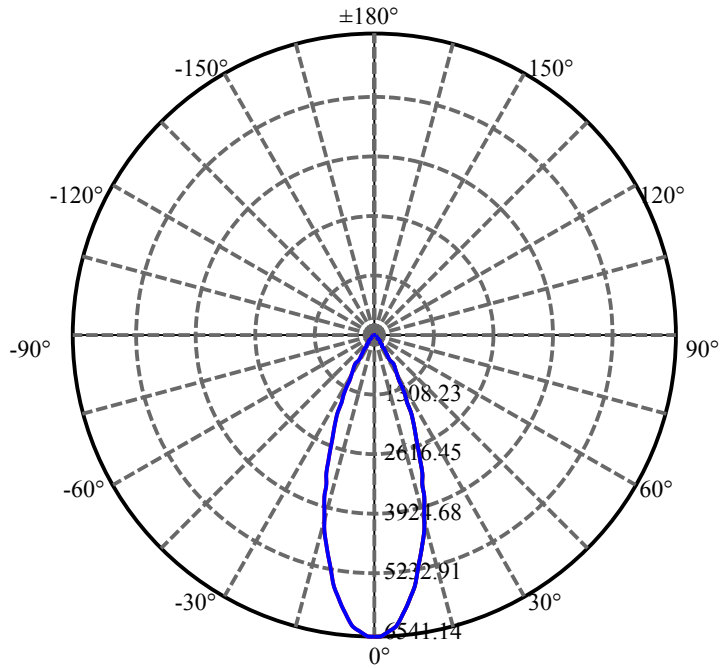
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	18.142	1.956	2976.695	0.06%	99.25%
77.0	17.568	1.904	2978.598	0.06%	99.31%
78.0	17.049	1.853	2980.452	0.06%	99.37%
79.0	16.516	1.803	2982.255	0.06%	99.43%
80.0	16.018	1.754	2984.009	0.05%	99.49%
81.0	15.513	1.705	2985.714	0.05%	99.55%
82.0	15.008	1.655	2987.369	0.05%	99.61%
83.0	14.565	1.608	2988.977	0.05%	99.66%
84.0	14.157	1.565	2990.541	0.05%	99.71%
85.0	13.790	1.525	2992.067	0.05%	99.76%
86.0	13.472	1.490	2993.557	0.05%	99.81%
87.0	13.160	1.458	2995.014	0.04%	99.86%
88.0	12.849	1.425	2996.439	0.04%	99.91%
89.0	12.551	1.392	2997.831	0.04%	99.95%
90.0	12.420	1.369	2999.201	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2539.94	77.90%	84.69%
0-40	2841.77	87.16%	94.75%
0-60	2938.97	90.14%	97.99%
0-90	2997.83	91.94%	99.95%
0-120	2997.83	91.94%	99.95%
0-180	2999.20	91.98%	100.00%
60-90	58.86	1.81%	1.96%
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%
0-27.70	2399.36	73.59%	80.00%

ZONAL LUMEN SUMMARY

0-10	564.66
10-20	1140.31
20-30	834.96
30-40	301.83
40-50	63.43
50-60	33.76
60-70	25.21
70-80	19.83
80-90	13.82
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: —————

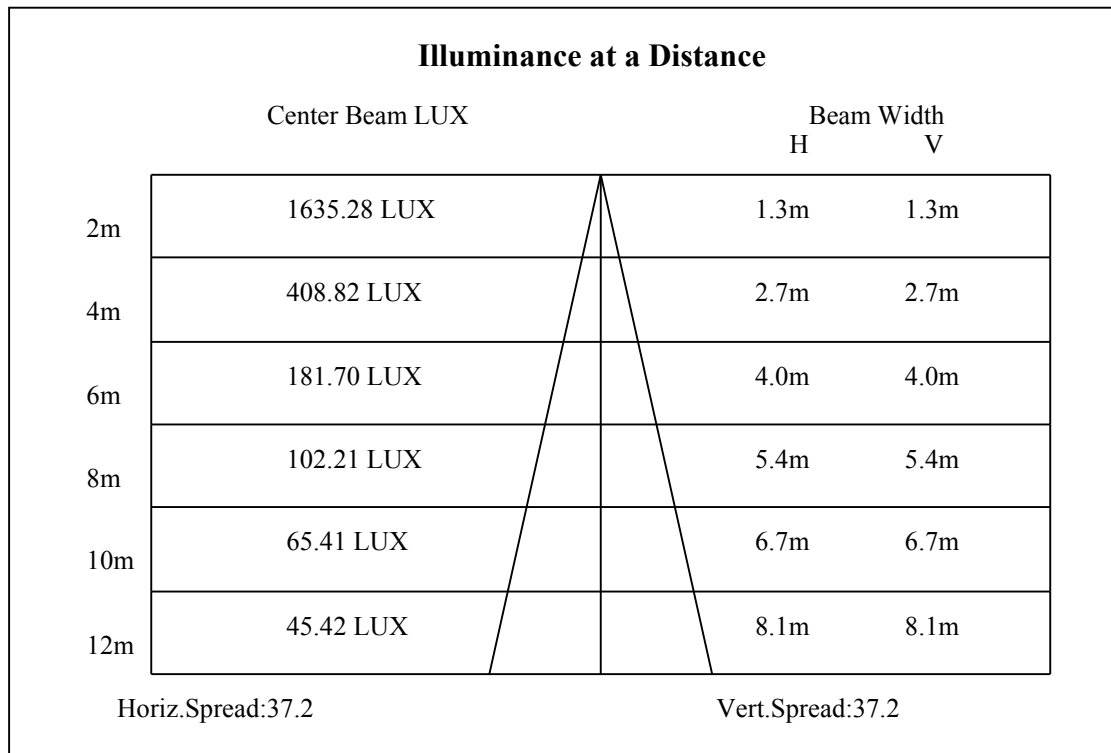
C90/C270: —————

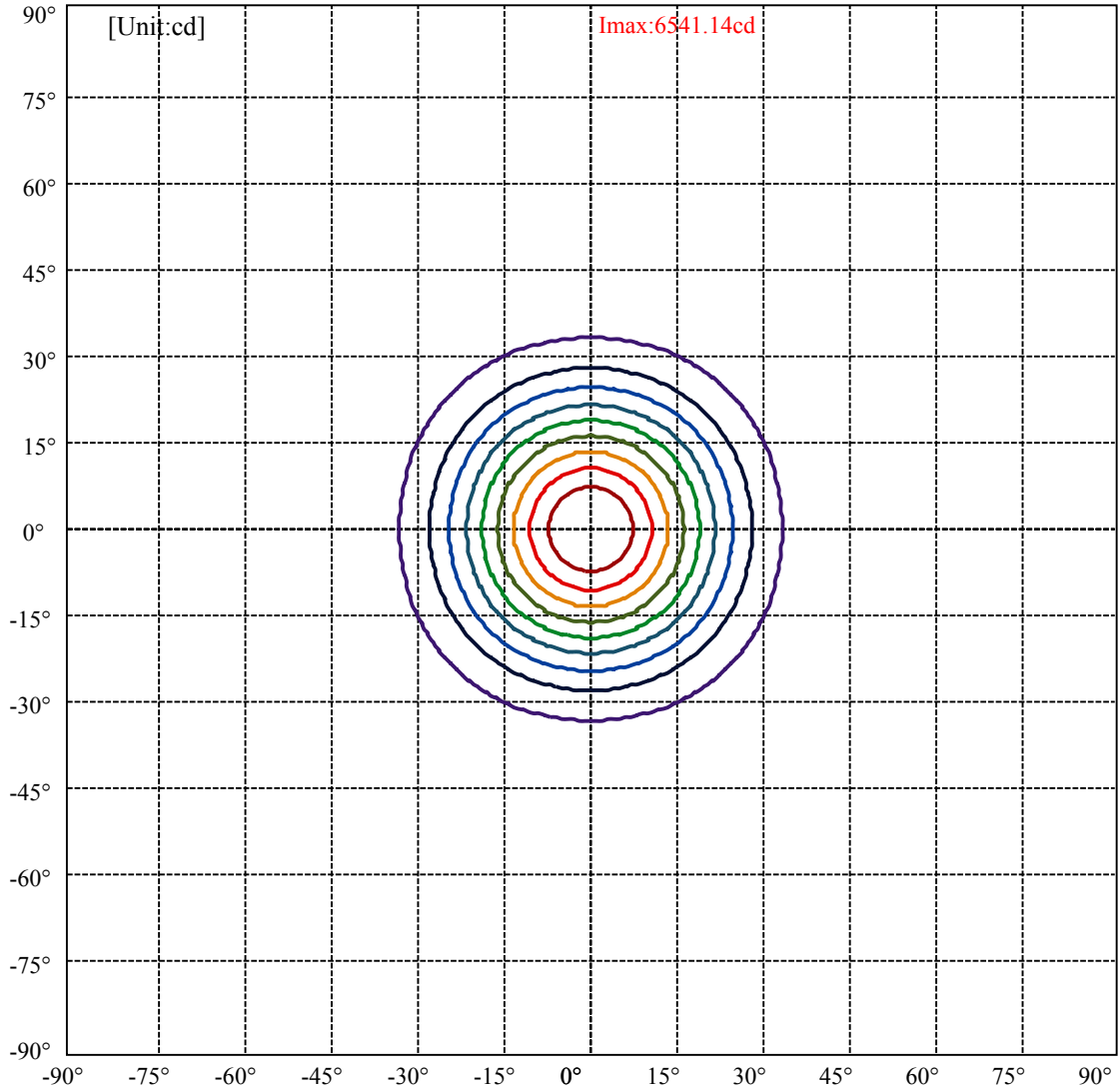
Field angle(10%Imax):C0/180Left:32.9 Right:32.9

:C90/270Left:32.9 Right:32.9

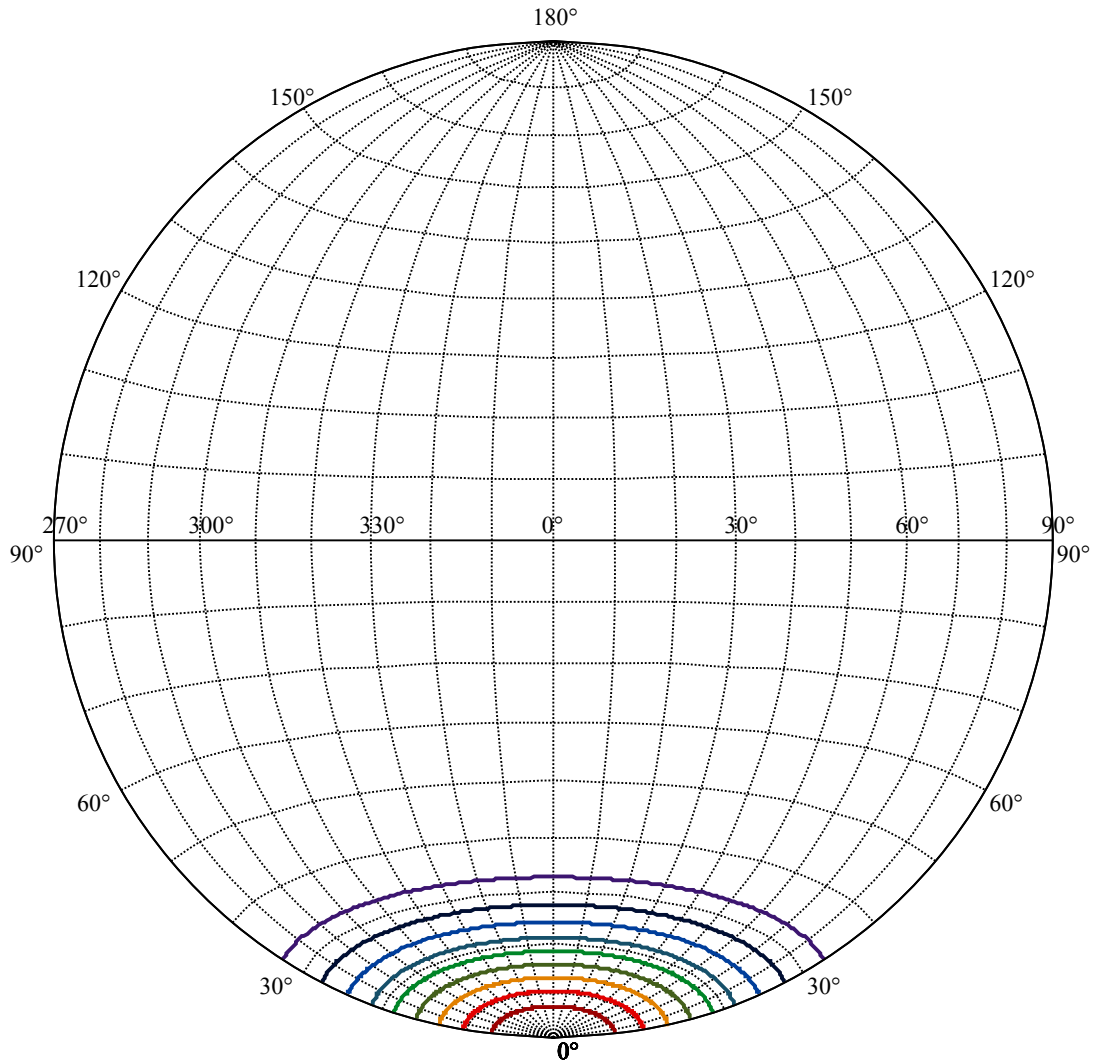
Beam Angle(50%Imax):C0/180Left:18.6 Right:18.6

:C90/270Left:18.6 Right:18.6





(10%Imax) 654.113	—
(20%Imax) 1308.23	—
(30%Imax) 1962.34	—
(40%Imax) 2616.45	—
(50%Imax) 3270.57	—
(60%Imax) 3924.68	—
(70%Imax) 4578.79	—
(80%Imax) 5232.91	—
(90%Imax) 5887.02	—



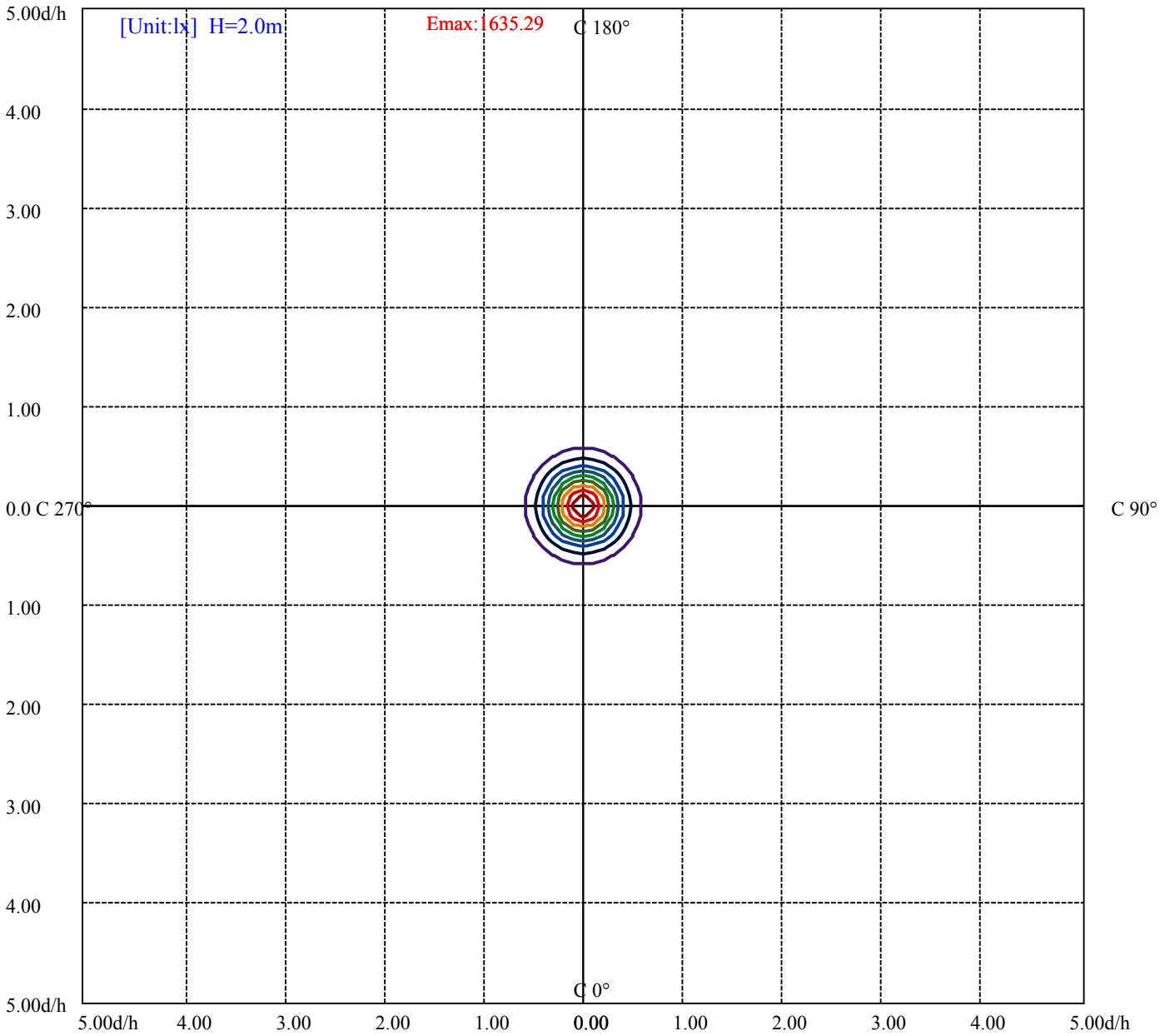
House

[Unit:cd]

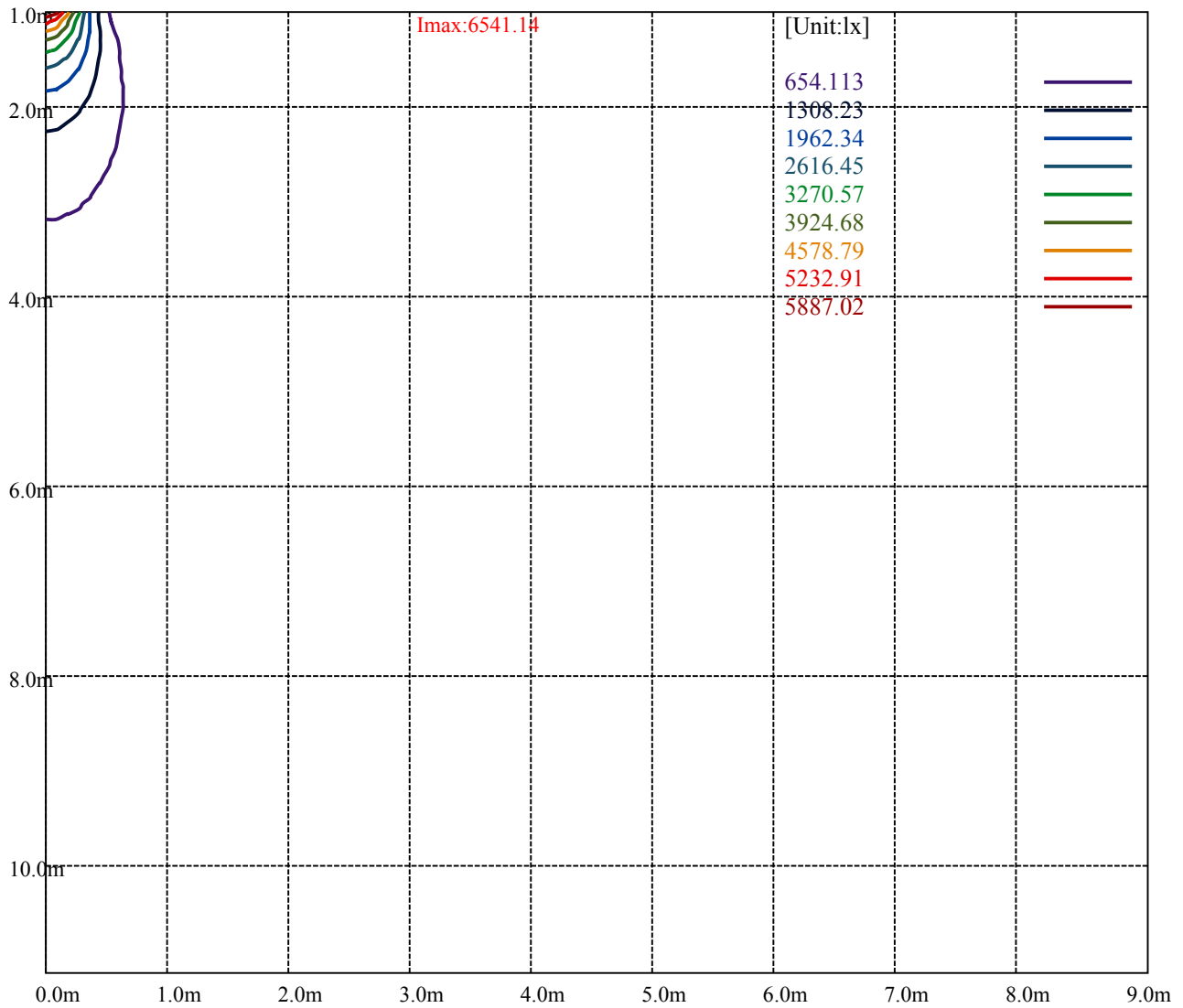
Road

Imax:6541.14

(10%Imax) 654.113	—
(20%Imax) 1308.23	—
(30%Imax) 1962.34	—
(40%Imax) 2616.45	—
(50%Imax) 3270.57	—
(60%Imax) 3924.68	—
(70%Imax) 4578.79	—
(80%Imax) 5232.91	—
(90%Imax) 5887.02	—



(10%Emax) 163.5282	—
(20%Emax) 327.0575	—
(30%Emax) 490.585	—
(40%Emax) 654.1125	—
(50%Emax) 817.6425	—
(60%Emax) 981.17	—
(70%Emax) 1144.698	—
(80%Emax) 1308.228	—
(90%Emax) 1471.755	—



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

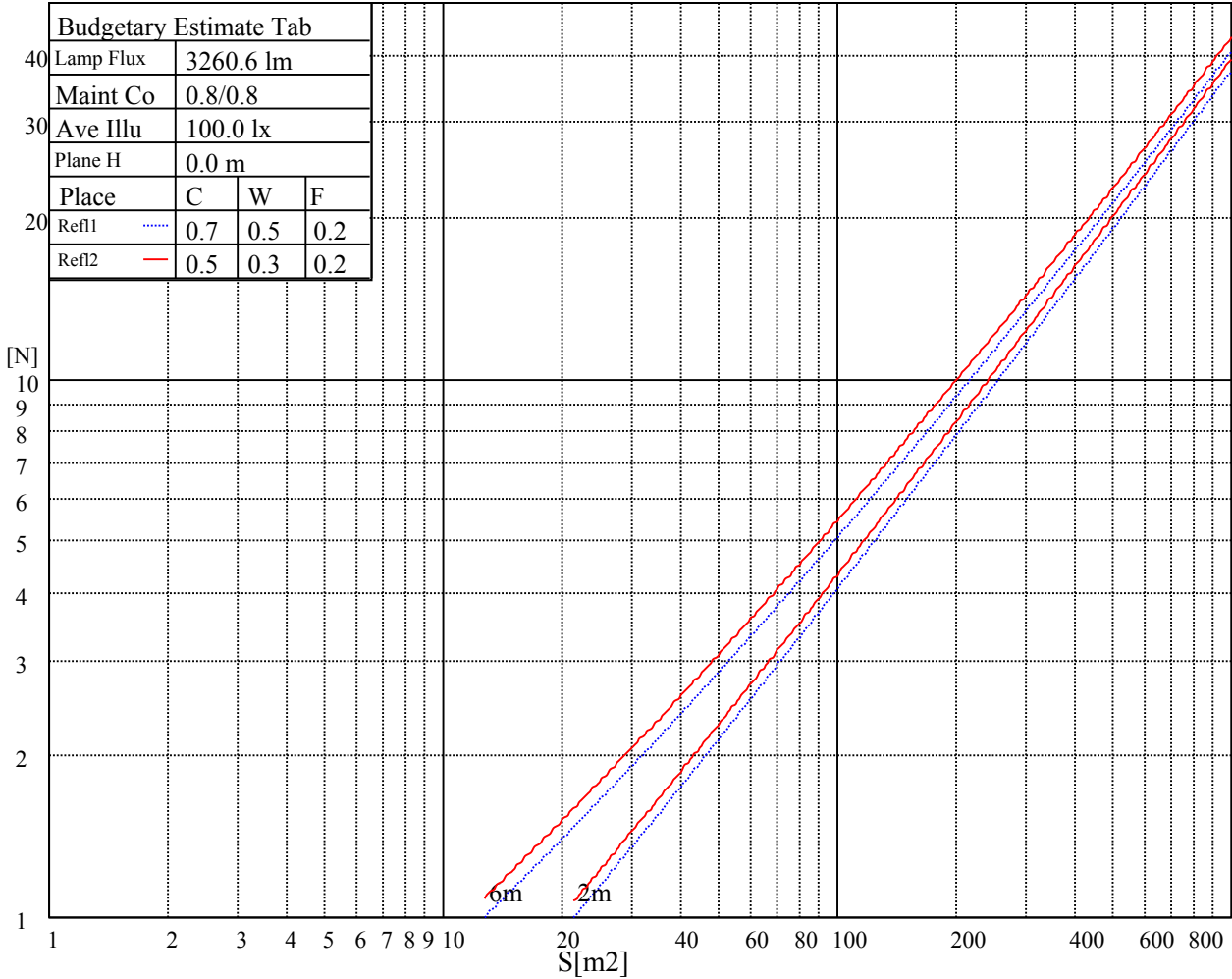
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

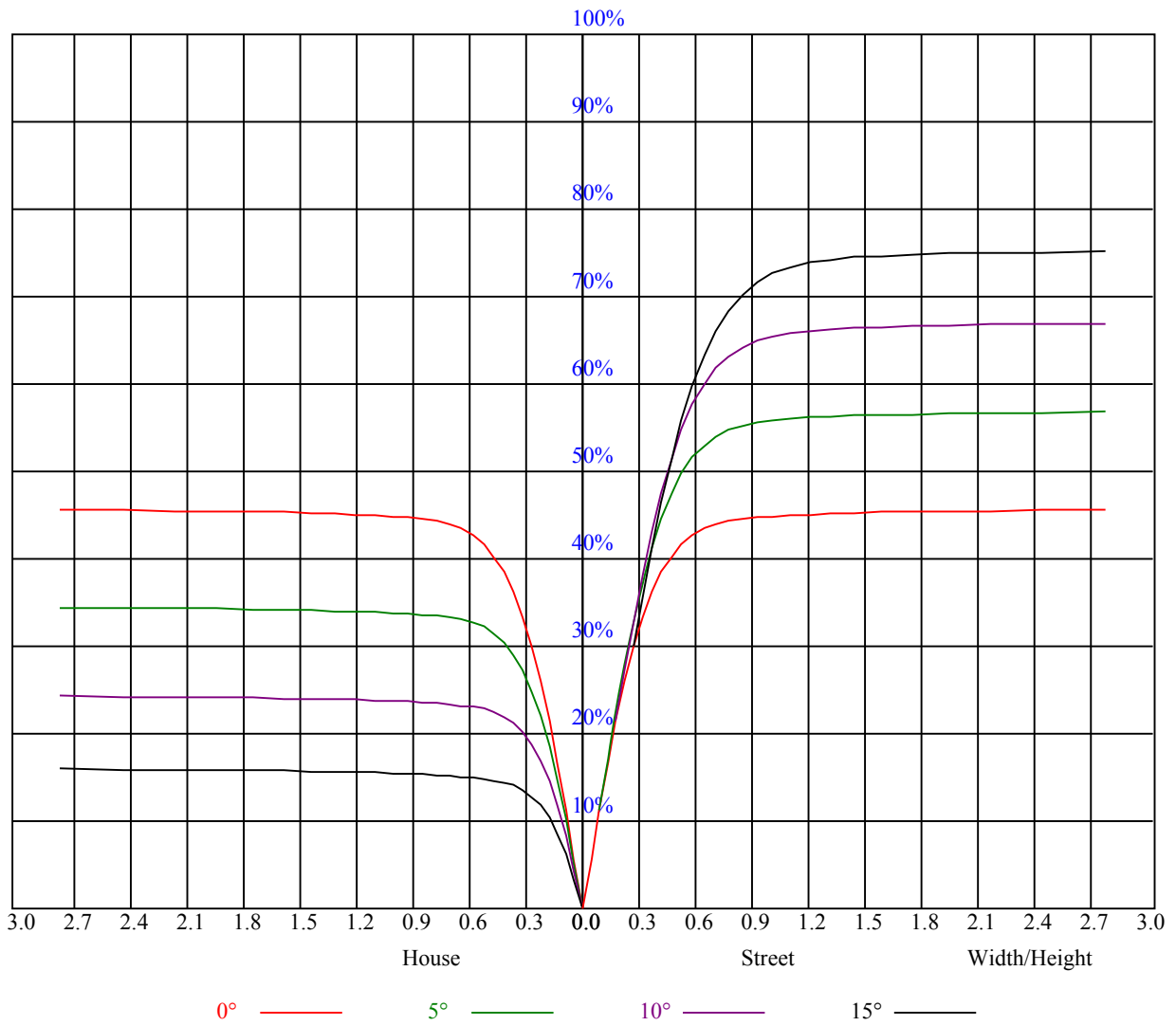


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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	1.10	1.10	1.10	1.07	1.07	1.07	1.02	1.02	1.02	0.98	0.98	0.98	0.94	0.94	0.94	0.92
1	1.02	1.00	0.98	1.00	0.98	0.97	0.97	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87
2	0.96	0.93	0.90	0.95	0.91	0.89	0.92	0.89	0.87	0.89	0.87	0.85	0.86	0.85	0.83	0.82
3	0.91	0.86	0.83	0.89	0.86	0.82	0.87	0.84	0.81	0.85	0.82	0.80	0.83	0.81	0.79	0.77
4	0.86	0.81	0.78	0.85	0.81	0.77	0.83	0.79	0.76	0.81	0.78	0.75	0.79	0.77	0.75	0.73
5	0.81	0.77	0.73	0.81	0.76	0.73	0.79	0.75	0.72	0.77	0.74	0.72	0.76	0.73	0.71	0.70
6	0.77	0.73	0.69	0.77	0.72	0.69	0.75	0.71	0.68	0.74	0.71	0.68	0.73	0.70	0.68	0.66
7	0.74	0.69	0.66	0.73	0.69	0.65	0.72	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.64	0.63
8	0.71	0.66	0.62	0.70	0.65	0.62	0.69	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.62	0.60
9	0.67	0.63	0.60	0.67	0.63	0.59	0.66	0.62	0.59	0.65	0.62	0.59	0.65	0.61	0.59	0.58
10	0.65	0.60	0.57	0.64	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.57	0.62	0.59	0.56	0.55



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	6542.80	6482.46	6407.18	6313.63	6149.23	6011.40	5823.75	5646.07	5448.45
45.0	6558.29	6531.17	6483.57	6415.48	6299.79	6178.02	5996.46	5835.38	5668.76
90.0	6518.44	6495.19	6386.70	6290.38	6175.25	6031.88	5840.36	5677.07	5480.56
135.0	6545.01	6522.87	6488.00	6424.89	6334.11	6230.05	6084.47	5917.85	5751.79
180.0	6542.80	6558.29	6561.62	6545.56	6484.67	6406.07	6304.78	6186.87	6013.06
225.0	6558.29	6559.96	6537.26	6480.25	6416.04	6295.36	6148.68	6015.28	5796.63
270.0	6518.44	6537.81	6557.74	6522.87	6466.96	6392.23	6273.22	6168.05	5986.49
315.0	6545.01	6540.03	6503.49	6435.96	6331.34	6212.89	6099.41	5905.68	5721.90
360.0	6542.80	6482.46	6407.18	6313.63	6149.23	6011.40	5823.75	5646.07	5448.45
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5209.33	4999.54	4770.93	4554.49	4278.28	4054.65	3818.84	3591.34	3309.59
45.0	5430.74	5225.93	5027.21	4758.75	4534.57	4317.03	4097.27	3817.74	3579.72
90.0	5274.09	5015.59	4789.19	4567.78	4293.78	4080.11	3855.93	3553.15	3335.05
135.0	5566.36	5366.53	5117.99	4895.47	4670.74	4393.42	4167.02	3875.31	3635.62
180.0	5854.75	5672.08	5423.55	5223.17	5013.38	4736.61	4515.19	4298.21	4007.60
225.0	5618.94	5437.94	5173.35	4964.66	4747.68	4477.00	4258.91	4022.55	3793.38
270.0	5801.61	5626.69	5446.79	5193.83	4978.50	4758.20	4472.02	4250.05	4026.97
315.0	5541.45	5308.96	5097.51	4882.19	4668.52	4384.01	4165.36	3937.30	3714.23
360.0	5209.33	4999.54	4770.93	4554.49	4278.28	4054.65	3818.84	3591.34	3309.59
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3088.73	2867.87	2593.87	2377.44	2125.58	1933.50	1754.16	1597.50	1281.44
45.0	3363.28	3145.19	2860.12	2645.35	2444.41	2195.88	2002.14	1775.19	1603.04
90.0	3108.10	2824.14	2609.37	2407.33	2213.59	1978.89	1801.21	1637.36	1475.73
135.0	3404.80	3165.12	2877.83	2649.78	2436.67	2241.27	2002.69	1816.15	1645.66
180.0	3771.24	3521.04	3272.50	2976.36	2742.22	2525.23	2314.33	2066.35	1876.49
225.0	3492.81	3253.68	3012.90	2785.39	2509.73	2291.09	2086.83	1847.15	1675.00
270.0	3724.74	3488.94	3199.44	2964.19	2735.02	2512.50	2251.78	2055.83	1869.84
315.0	3430.82	3193.35	2903.30	2675.24	2462.13	2202.52	2014.87	1834.42	1668.36
360.0	3088.73	2867.87	2593.87	2377.44	2125.58	1933.50	1754.16	1597.50	1281.44
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1103.14	1103.14	969.24	815.80	702.05	598.70	507.92	410.28	339.82
45.0	1441.96	1286.42	1140.28	974.78	850.23	733.99	603.35	512.02	431.76
90.0	1100.04	1100.04	998.63	843.64	728.79	620.46	504.88	425.17	336.77
135.0	1481.82	1293.06	1151.91	989.17	869.05	753.92	624.39	533.06	451.13
180.0	1660.61	1496.21	1346.20	1170.18	1037.33	905.58	788.79	653.73	559.07
225.0	1475.73	1073.64	1073.64	1006.11	881.62	762.72	656.00	560.07	454.23
270.0	1701.02	1495.65	1343.43	1199.51	1062.24	890.64	772.18	660.37	542.47
315.0	1467.42	1093.29	1093.29	1023.99	863.68	745.78	638.50	522.26	442.22
360.0	1103.14	1103.14	969.24	815.80	702.05	598.70	507.92	410.28	339.82
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	279.92	218.20	178.74	148.07	119.62	102.85	87.18	77.88	70.69
45.0	359.24	281.75	281.75	217.87	142.65	119.56	102.74	87.24	78.21
90.0	277.60	228.11	186.26	146.30	122.55	104.73	91.11	78.82	71.41
135.0	377.51	296.14	281.20	281.20	156.87	124.93	106.78	93.10	80.76
180.0	473.27	397.99	313.85	283.96	283.96	165.67	130.41	110.43	95.32
225.0	379.73	312.42	241.90	196.17	159.31	131.41	106.50	92.00	79.49
270.0	457.22	362.57	298.91	283.96	283.96	150.78	125.76	107.00	92.77
315.0	369.04	292.16	240.18	197.11	154.88	129.64	110.49	95.60	82.26
360.0	279.92	218.20	178.74	148.07	119.62	102.85	87.18	77.88	70.69

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	65.04	59.01	55.19	51.64	48.60	45.28	42.90	40.80	38.86
45.0	71.13	64.10	59.39	55.35	51.76	47.83	45.11	42.73	40.63
90.0	65.59	60.56	55.46	51.92	48.71	45.28	42.90	40.24	38.30
135.0	73.45	67.59	61.44	57.12	53.42	49.32	46.44	43.95	41.18
180.0	81.92	74.06	66.54	61.50	57.24	53.58	49.49	46.55	43.95
225.0	71.96	65.93	59.89	55.80	52.31	49.21	45.72	43.23	41.02
270.0	79.88	72.35	66.48	61.50	56.24	52.81	49.65	46.11	43.67
315.0	74.28	67.92	62.77	57.35	53.75	50.43	46.72	44.17	41.29
360.0	65.04	59.01	55.19	51.64	48.60	45.28	42.90	40.80	38.86
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	36.70	35.09	33.38	32.11	30.89	29.61	28.67	27.79	26.96
45.0	38.25	36.48	34.71	33.27	31.94	30.50	29.50	28.56	27.62
90.0	36.64	35.04	33.27	31.99	30.83	29.78	28.56	27.62	26.79
135.0	39.08	37.25	35.76	33.82	32.44	31.22	30.11	28.89	27.95
180.0	41.07	39.08	37.20	35.59	33.77	32.49	31.27	29.95	28.89
225.0	38.97	36.75	35.09	33.65	32.05	30.89	29.78	28.56	27.62
270.0	40.85	38.86	37.03	35.43	33.60	32.33	31.05	29.95	28.73
315.0	39.30	37.42	35.37	33.88	32.49	31.00	29.89	28.89	27.95
360.0	36.70	35.09	33.38	32.11	30.89	29.61	28.67	27.79	26.96
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	26.02	25.30	24.63	23.97	23.14	22.47	21.81	21.09	20.48
45.0	26.68	25.91	25.24	24.58	23.80	23.14	22.47	21.75	21.15
90.0	25.91	25.13	24.47	23.69	23.03	22.42	21.64	21.09	20.48
135.0	26.85	26.13	25.41	24.52	23.91	23.19	22.53	21.81	21.15
180.0	27.95	26.90	26.07	25.41	24.52	23.86	23.19	22.53	21.81
225.0	26.57	25.79	25.08	24.36	23.75	22.92	22.31	21.70	21.15
270.0	27.84	26.96	25.96	25.24	24.47	23.64	23.03	22.42	21.64
315.0	27.12	26.13	25.35	24.69	23.86	23.19	22.58	21.75	21.20
360.0	26.02	25.30	24.63	23.97	23.14	22.47	21.81	21.09	20.48
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	19.93	19.26	18.65	18.21	17.55	17.05	16.61	16.11	15.50
45.0	20.54	19.87	19.32	18.65	18.16	17.66	17.21	16.55	16.11
90.0	19.93	19.26	18.71	18.21	17.60	17.05	16.61	16.05	15.50
135.0	20.59	20.04	19.32	18.76	18.27	17.66	17.16	16.61	16.16
180.0	21.20	20.59	20.04	19.32	18.71	18.10	17.55	17.05	16.50
225.0	20.37	19.82	19.26	18.60	18.05	17.38	16.88	16.38	15.83
270.0	21.03	20.48	19.76	19.15	18.65	18.16	17.44	16.94	16.50
315.0	20.54	19.82	19.26	18.71	18.16	17.49	16.94	16.44	16.05
360.0	19.93	19.26	18.65	18.21	17.55	17.05	16.61	16.11	15.50
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	15.06	14.56	14.17	13.84	13.56	13.23	12.95	12.57	12.51
45.0	15.61	15.06	14.56	14.12	13.73	13.45	13.17	12.84	12.45
90.0	15.06	14.61	14.23	13.84	13.45	13.23	12.90	12.62	12.40
135.0	15.61	15.00	14.56	14.23	13.84	13.51	13.17	12.84	12.51
180.0	16.05	15.55	15.00	14.56	14.12	13.78	13.45	13.17	12.84
225.0	15.39	14.89	14.56	14.06	13.78	13.40	13.12	12.84	12.51
270.0	15.89	15.44	14.89	14.50	14.06	13.73	13.40	13.06	12.73
315.0	15.44	14.95	14.56	14.12	13.78	13.45	13.12	12.84	12.45
360.0	15.06	14.56	14.17	13.84	13.56	13.23	12.95	12.57	12.51

Intensity data(cd)

C/γ(°)	90.0
0.0	12.45
45.0	12.40
90.0	12.34
135.0	12.45
180.0	12.51
225.0	12.34
270.0	12.45
315.0	12.40
360.0	12.45