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NT

LumCAT: 2-2642-L  
Luminaire: 92.70.411.00  
LampCAT: LUMILEDS LUXEON 1208  
Ballast type: AC  
Report No: 20231026-B018  
Test No: 20231026-C018  
Number of Lamps: 1  
Lamp flux(lm): 2763.9  
Length(mm): 0  
Phm Type: C  
Voltage(V): 34.4000  
Current(A): 0.5760  
Power (W): 19.8140  
PF: 0.0000  
Width(mm): 0  
Height(mm): 0

### Photometric Results

Lumens(lm): 2561.64, Efficiency(%): 92.68% , Luminous Efficacy(lm/W): 129.28  
Central intensity(cd): 4011.614, Maximum intensity(cd): 4011.614  
Angle of maximum intensity: C=0.0  $\gamma$ =0.0  
Beam Angle(50%Imax): [C0/180]Total=48.0  
[C90/270]Total=48.0  
Field angle(10%Imax): [C0/180]Total=72.4  
[C90/270]Total=72.4  
Maximum s/h(1/2): C0\_180=0.76 C90\_270=0.76  
Maximum s/h(1/4): C0\_180=0.74 C90\_270=0.74  
Up flux rate of lamp(%): 0.00%  
Down flux rate of lamp(%): 92.68%  
Up flux rate of LUM(%): - -  
Down flux rate of LUM(%): 100.00%  
CIE Type : Direct lighting  
Output flux ratio in  $\pi$  solid angle : 97.975%

Equipment: GMS1980  
Temperature(°C): 0.0

Date: 2023/10/26  
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	4011.614	0.000	0	0.00%	0.00%
1.0	4007.601	3.837	3.837	0.14%	0.15%
2.0	4006.148	11.502	15.339	0.42%	0.60%
3.0	3999.851	19.148	34.487	0.69%	1.35%
4.0	3980.408	26.712	61.199	0.97%	2.39%
5.0	3950.310	34.118	95.317	1.23%	3.72%
6.0	3913.292	41.325	136.642	1.50%	5.33%
7.0	3857.662	48.234	184.876	1.75%	7.22%
8.0	3792.690	54.752	239.628	1.98%	9.35%
9.0	3720.108	60.887	300.516	2.20%	11.73%
10.0	3630.850	66.523	367.039	2.41%	14.33%
11.0	3545.191	71.703	438.742	2.59%	17.13%
12.0	3439.188	76.349	515.092	2.76%	20.11%
13.0	3339.759	80.449	595.541	2.91%	23.25%
14.0	3230.782	84.102	679.643	3.04%	26.53%
15.0	3125.333	87.260	766.903	3.16%	29.94%
16.0	3014.765	89.970	856.872	3.26%	33.45%
17.0	2898.522	92.086	948.958	3.33%	37.04%
18.0	2782.418	93.666	1042.624	3.39%	40.70%
19.0	2665.414	94.781	1137.406	3.43%	44.40%
20.0	2542.045	95.311	1232.717	3.45%	48.12%
21.0	2409.750	95.084	1327.801	3.44%	51.83%
22.0	2280.707	94.257	1422.058	3.41%	55.51%
23.0	2147.927	92.925	1514.982	3.36%	59.14%
24.0	2007.606	90.855	1605.837	3.29%	62.69%
25.0	1876.003	88.305	1694.142	3.19%	66.14%
26.0	1734.505	85.226	1779.368	3.08%	69.46%
27.0	1594.806	81.452	1860.821	2.95%	72.64%
28.0	1402.356	75.882	1936.703	2.75%	75.60%
29.0	1243.809	69.231	2005.934	2.50%	78.31%
30.0	1149.258	64.612	2070.546	2.34%	80.83%
31.0	1024.602	60.495	2131.041	2.19%	83.19%
32.0	884.419	54.691	2185.733	1.98%	85.33%
33.0	743.842	47.969	2233.702	1.74%	87.20%
34.0	624.575	41.412	2275.114	1.50%	88.81%
35.0	510.000	35.236	2310.35	1.27%	90.19%
36.0	421.788	29.668	2340.018	1.07%	91.35%
37.0	336.993	24.747	2364.765	0.90%	92.31%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	275.121	20.432	2385.197	0.74%	93.11%
39.0	236.955	17.479	2402.675	0.63%	93.79%
40.0	188.105	14.825	2417.5	0.54%	94.37%
41.0	136.184	11.548	2429.048	0.42%	94.82%
42.0	113.440	9.069	2438.117	0.33%	95.18%
43.0	94.267	7.694	2445.811	0.28%	95.48%
44.0	81.453	6.632	2452.443	0.24%	95.74%
45.0	71.302	5.871	2458.314	0.21%	95.97%
46.0	63.193	5.260	2463.574	0.19%	96.17%
47.0	56.737	4.770	2468.344	0.17%	96.36%
48.0	51.638	4.381	2472.725	0.16%	96.53%
49.0	47.175	4.058	2476.783	0.15%	96.69%
50.0	43.494	3.780	2480.563	0.14%	96.84%
51.0	40.284	3.545	2484.107	0.13%	96.97%
52.0	37.675	3.345	2487.453	0.12%	97.10%
53.0	35.468	3.182	2490.634	0.12%	97.23%
54.0	33.530	3.041	2493.676	0.11%	97.35%
55.0	31.814	2.917	2496.592	0.11%	97.46%
56.0	30.299	2.807	2499.399	0.10%	97.57%
57.0	28.929	2.708	2502.107	0.10%	97.68%
58.0	27.815	2.624	2504.731	0.09%	97.78%
59.0	26.784	2.553	2507.284	0.09%	97.88%
60.0	25.760	2.482	2509.766	0.09%	97.98%
61.0	24.868	2.416	2512.182	0.09%	98.07%
62.0	24.058	2.358	2514.54	0.09%	98.16%
63.0	23.297	2.303	2516.843	0.08%	98.25%
64.0	22.598	2.252	2519.095	0.08%	98.34%
65.0	21.892	2.202	2521.297	0.08%	98.43%
66.0	21.249	2.152	2523.449	0.08%	98.51%
67.0	20.612	2.105	2525.554	0.08%	98.59%
68.0	20.024	2.059	2527.613	0.07%	98.67%
69.0	19.429	2.013	2529.625	0.07%	98.75%
70.0	18.876	1.967	2531.593	0.07%	98.83%
71.0	18.301	1.922	2533.514	0.07%	98.90%
72.0	17.782	1.876	2535.39	0.07%	98.98%
73.0	17.222	1.830	2537.221	0.07%	99.05%
74.0	16.703	1.784	2539.004	0.06%	99.12%
75.0	16.219	1.739	2540.744	0.06%	99.18%

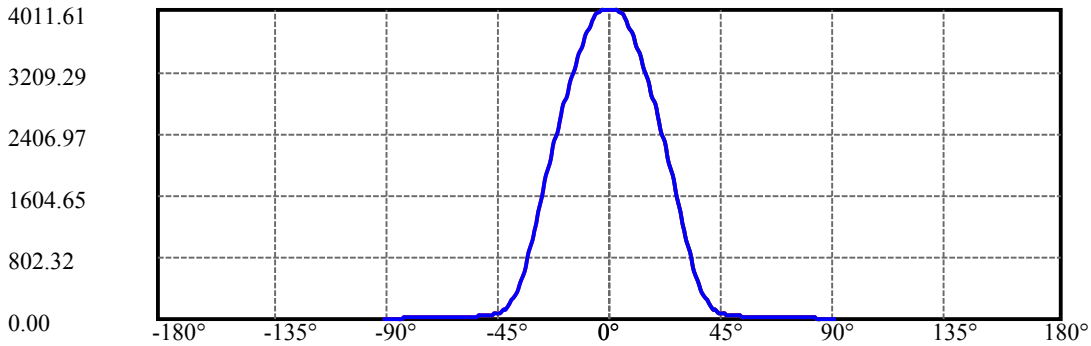
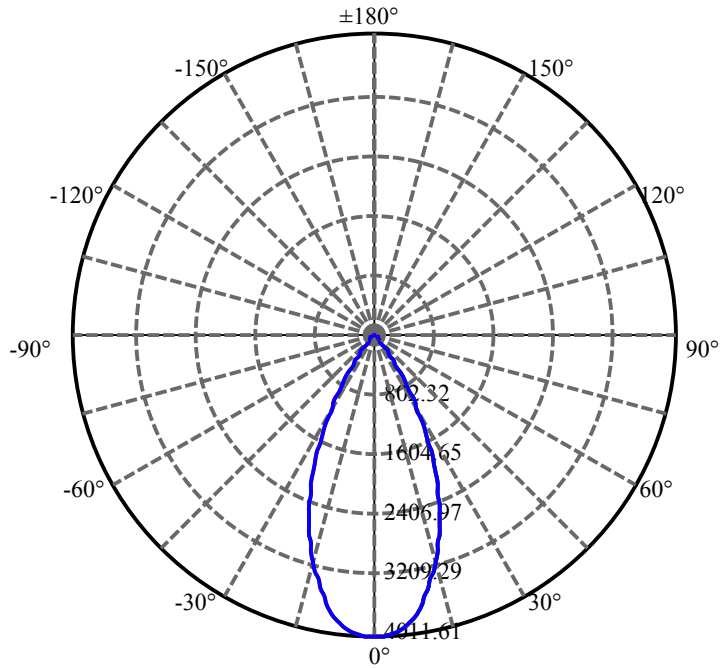
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	15.693	1.694	2542.438	0.06%	99.25%
77.0	15.201	1.647	2544.085	0.06%	99.31%
78.0	14.689	1.600	2545.685	0.06%	99.38%
79.0	14.198	1.552	2547.237	0.06%	99.44%
80.0	13.693	1.504	2548.741	0.05%	99.50%
81.0	13.278	1.459	2550.199	0.05%	99.55%
82.0	12.807	1.415	2551.614	0.05%	99.61%
83.0	12.413	1.371	2552.985	0.05%	99.66%
84.0	12.032	1.332	2554.317	0.05%	99.71%
85.0	11.707	1.296	2555.612	0.05%	99.76%
86.0	11.389	1.262	2556.875	0.05%	99.81%
87.0	11.098	1.231	2558.106	0.04%	99.86%
88.0	10.822	1.201	2559.306	0.04%	99.91%
89.0	10.600	1.174	2560.48	0.04%	99.95%
90.0	10.496	1.157	2561.637	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2070.55	74.91%	80.83%
0-40	2417.50	87.47%	94.37%
0-60	2509.77	90.80%	97.98%
0-90	2560.48	92.64%	99.95%
0-120	2560.48	92.64%	99.95%
0-180	2561.64	92.68%	100.00%
60-90	50.71	1.83%	1.98%
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%
0-29.67	2049.31	74.14%	80.00%

ZONAL LUMEN SUMMARY

0-10	367.04
10-20	865.68
20-30	837.83
30-40	346.95
40-50	63.06
50-60	29.20
60-70	21.83
70-80	17.15
80-90	11.74
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



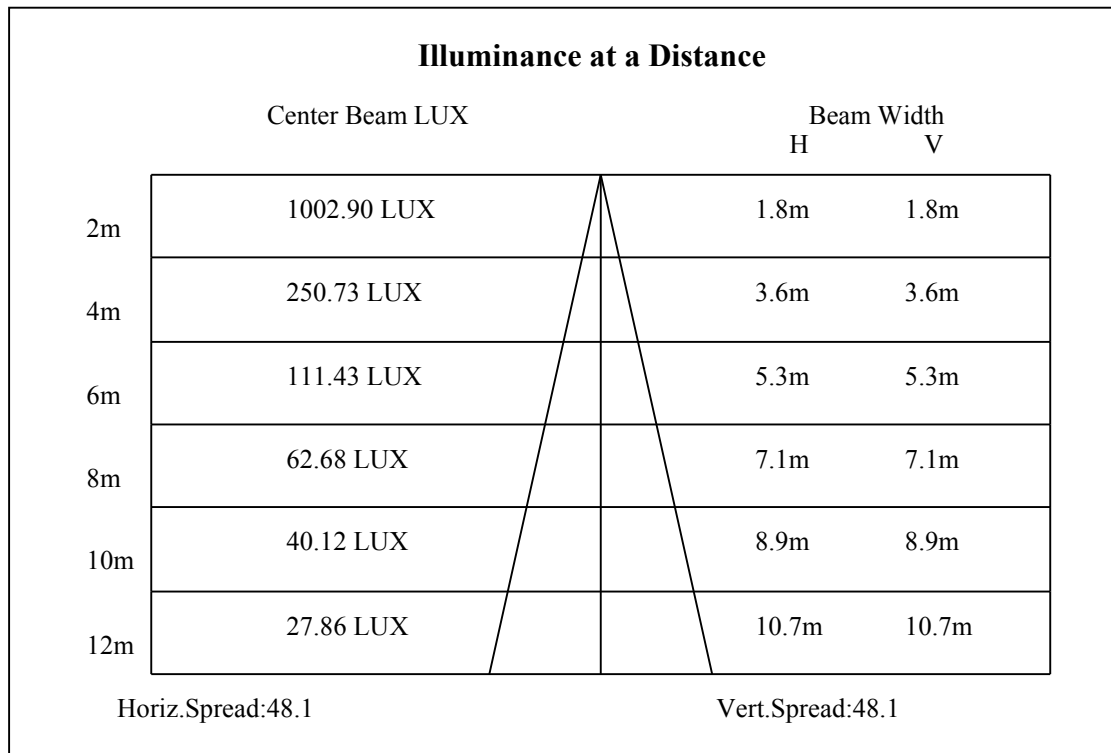
C0(Max): —————

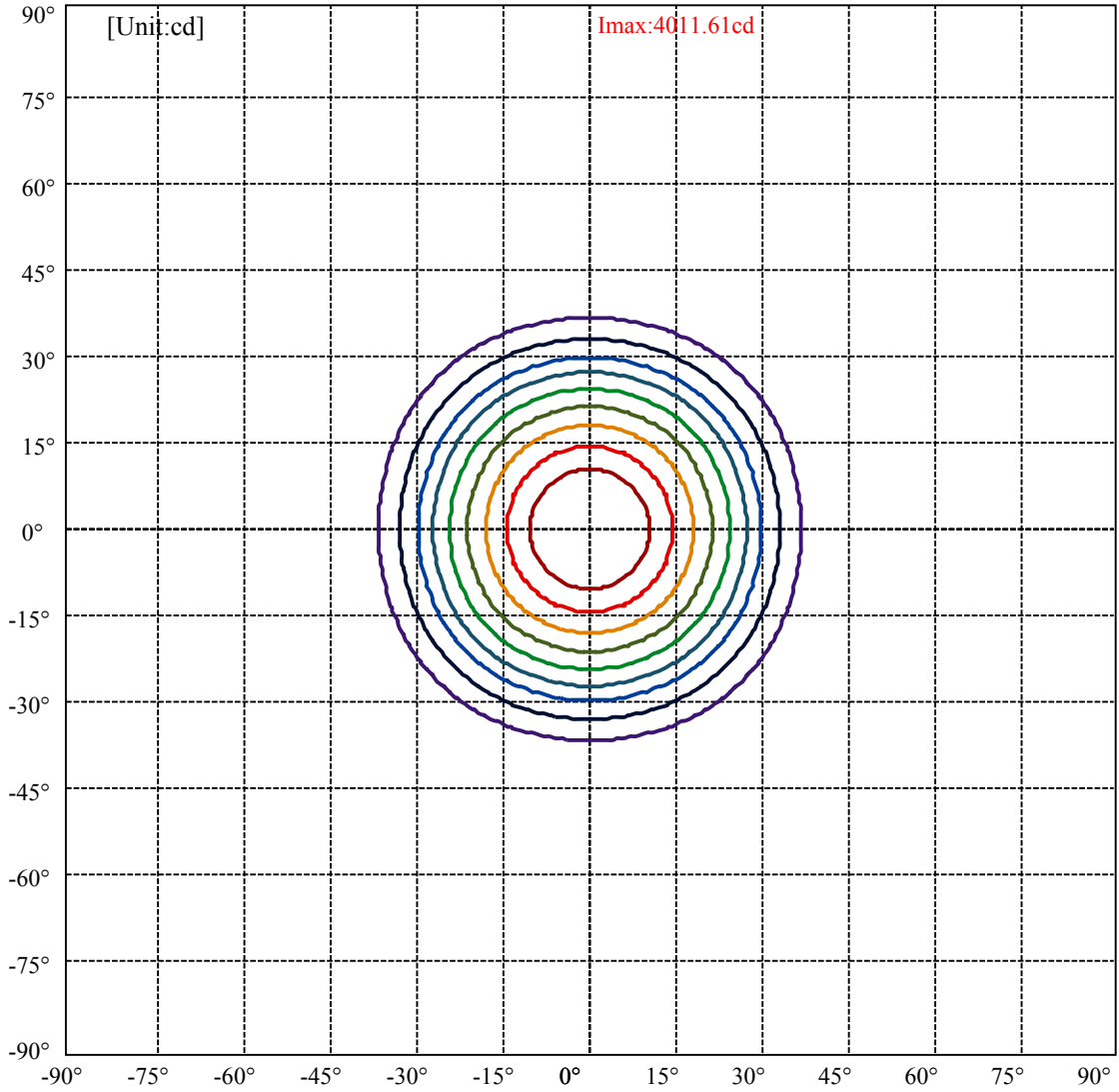
C0/C180: —————

C90/C270: —————

Field angle(10%Imax):C0/180Left:36.2 Right:36.2  
:C90/270Left:36.2 Right:36.2

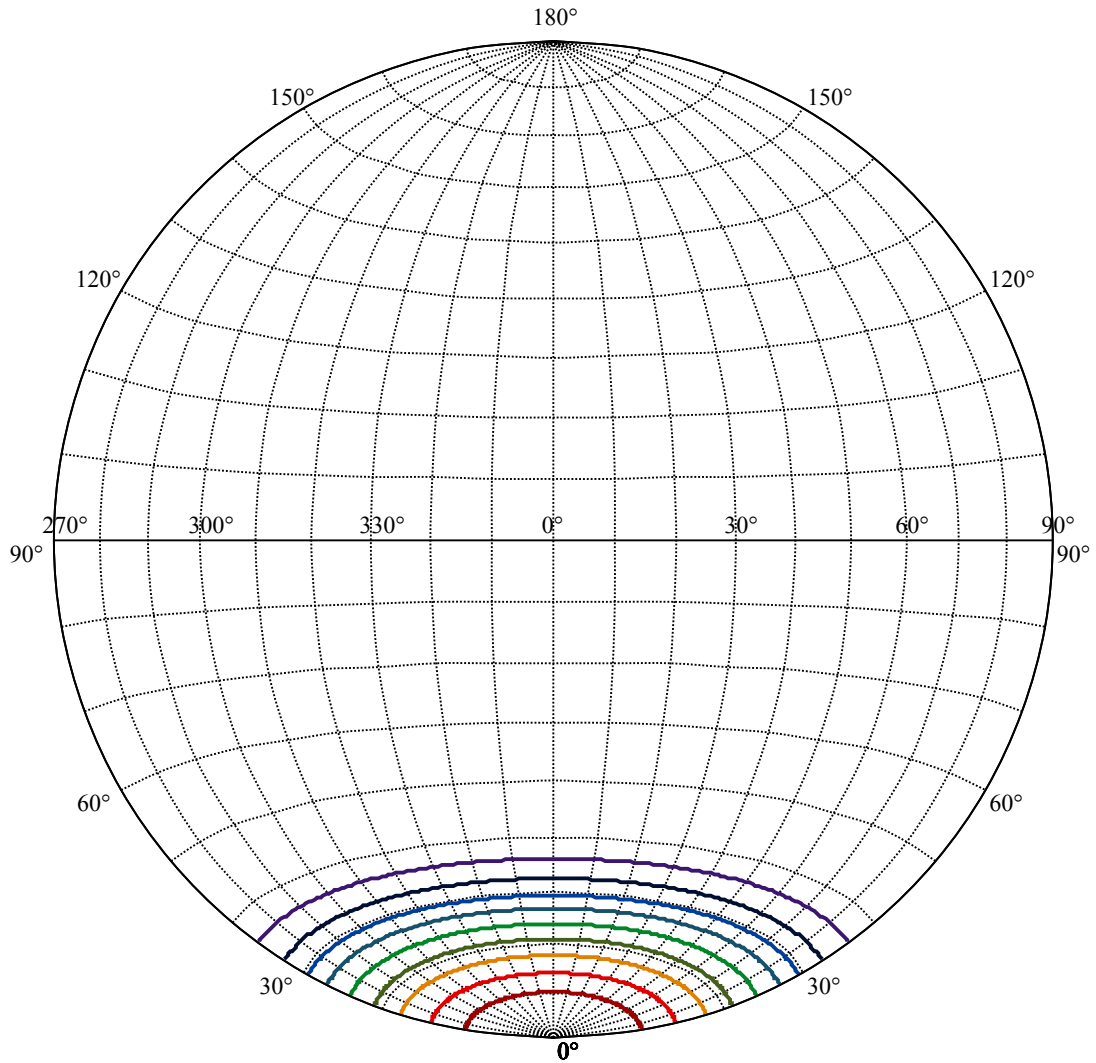
Beam Angle(50%Imax):C0/180Left:24.0 Right:24.0  
:C90/270Left:24.0 Right:24.0





(10%Imax) 401.161	—
(20%Imax) 802.323	—
(30%Imax) 1203.48	—
(40%Imax) 1604.65	—
(50%Imax) 2005.81	—
(60%Imax) 2406.97	—
(70%Imax) 2808.13	—
(80%Imax) 3209.29	—
(90%Imax) 3610.45	—





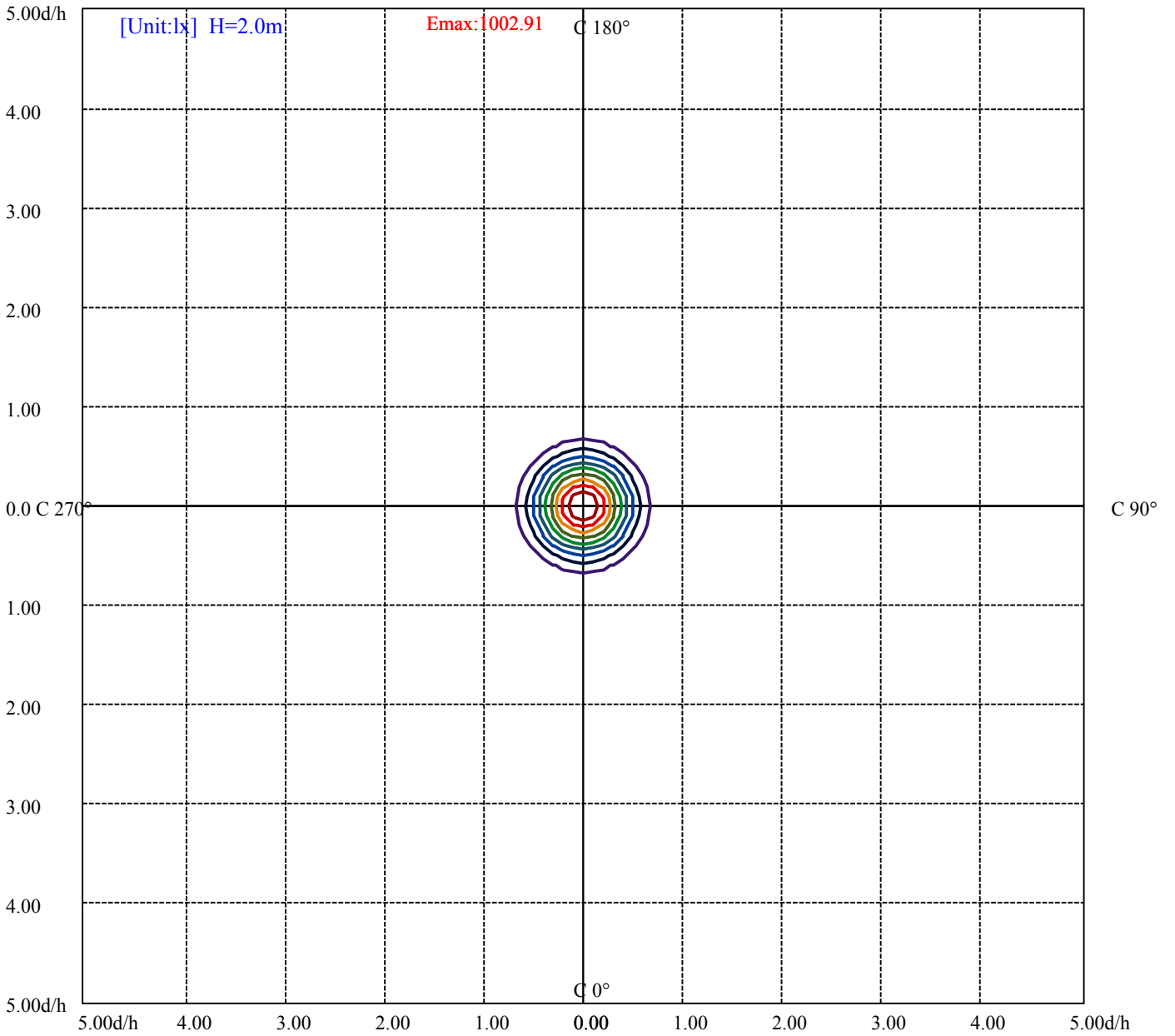
House

[Unit:cd]

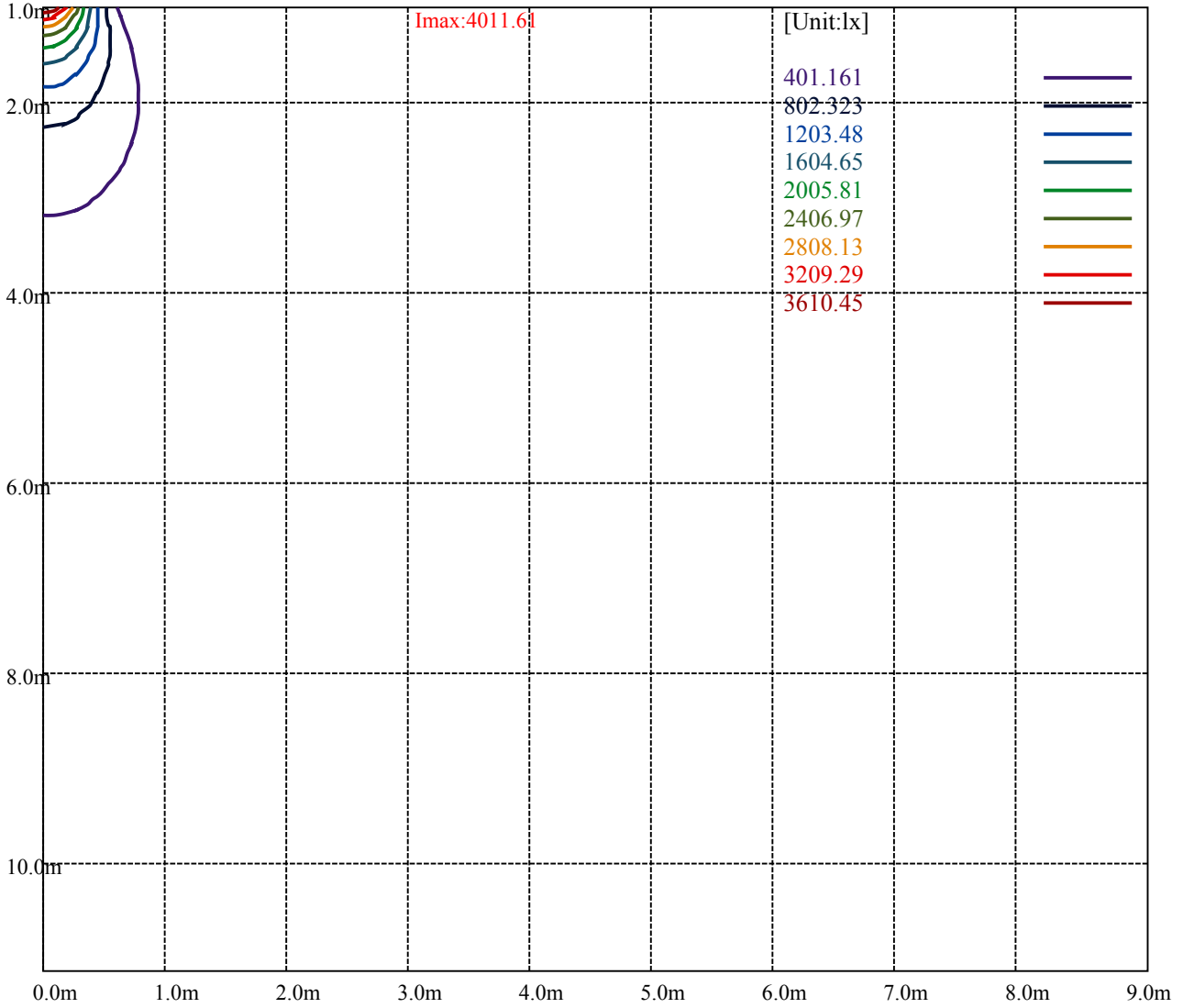
Road

**Imax:4011.61**

(10%Imax)	401.161	—
(20%Imax)	802.323	—
(30%Imax)	1203.48	—
(40%Imax)	1604.65	—
(50%Imax)	2005.81	—
(60%Imax)	2406.97	—
(70%Imax)	2808.13	—
(80%Imax)	3209.29	—
(90%Imax)	3610.45	—



- (10%Emax) 100.2903
- (20%Emax) 200.5807
- (30%Emax) 300.87
- (40%Emax) 401.1625
- (50%Emax) 501.4525
- (60%Emax) 601.7425
- (70%Emax) 702.0325
- (80%Emax) 802.3225
- (90%Emax) 902.6125



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

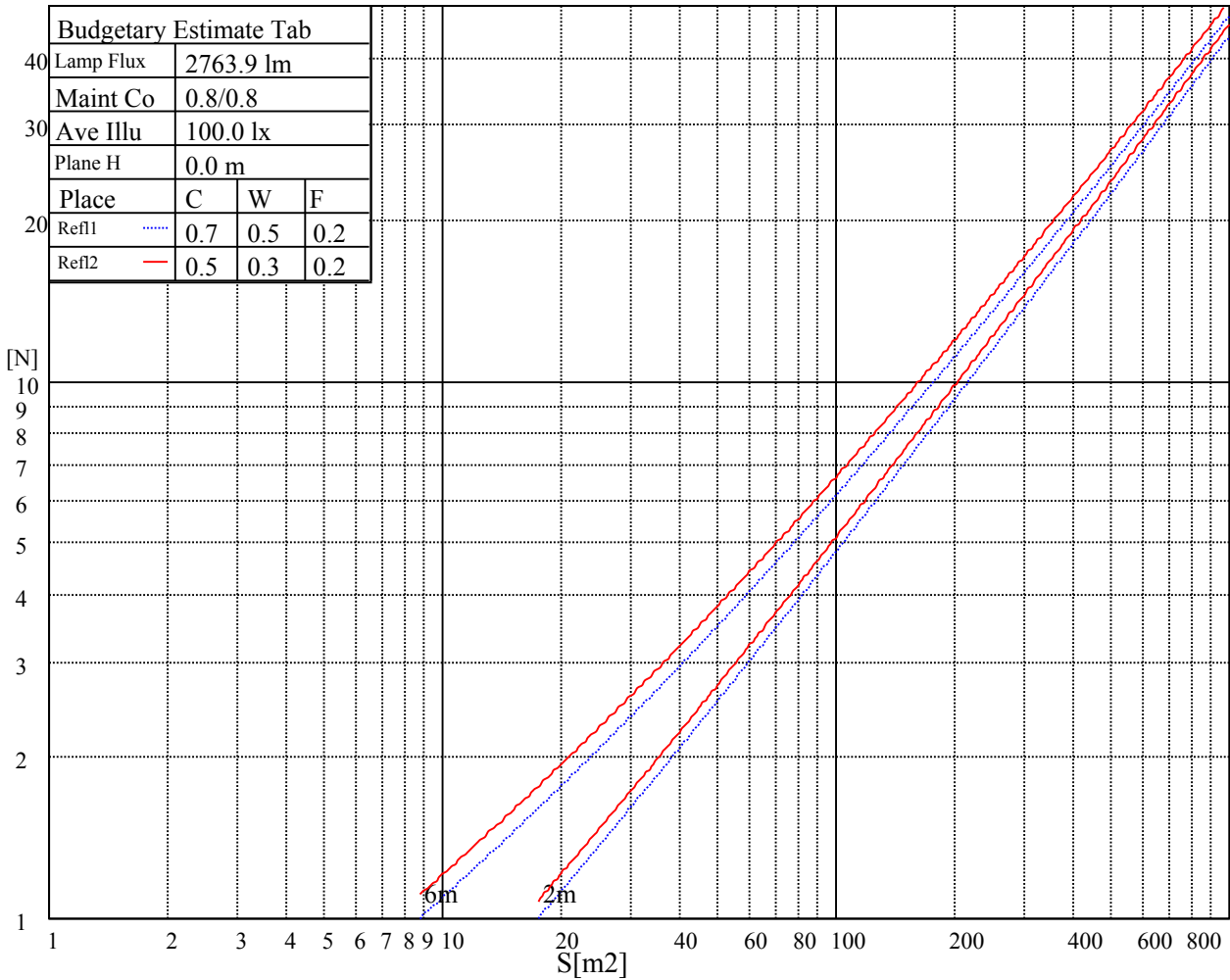
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

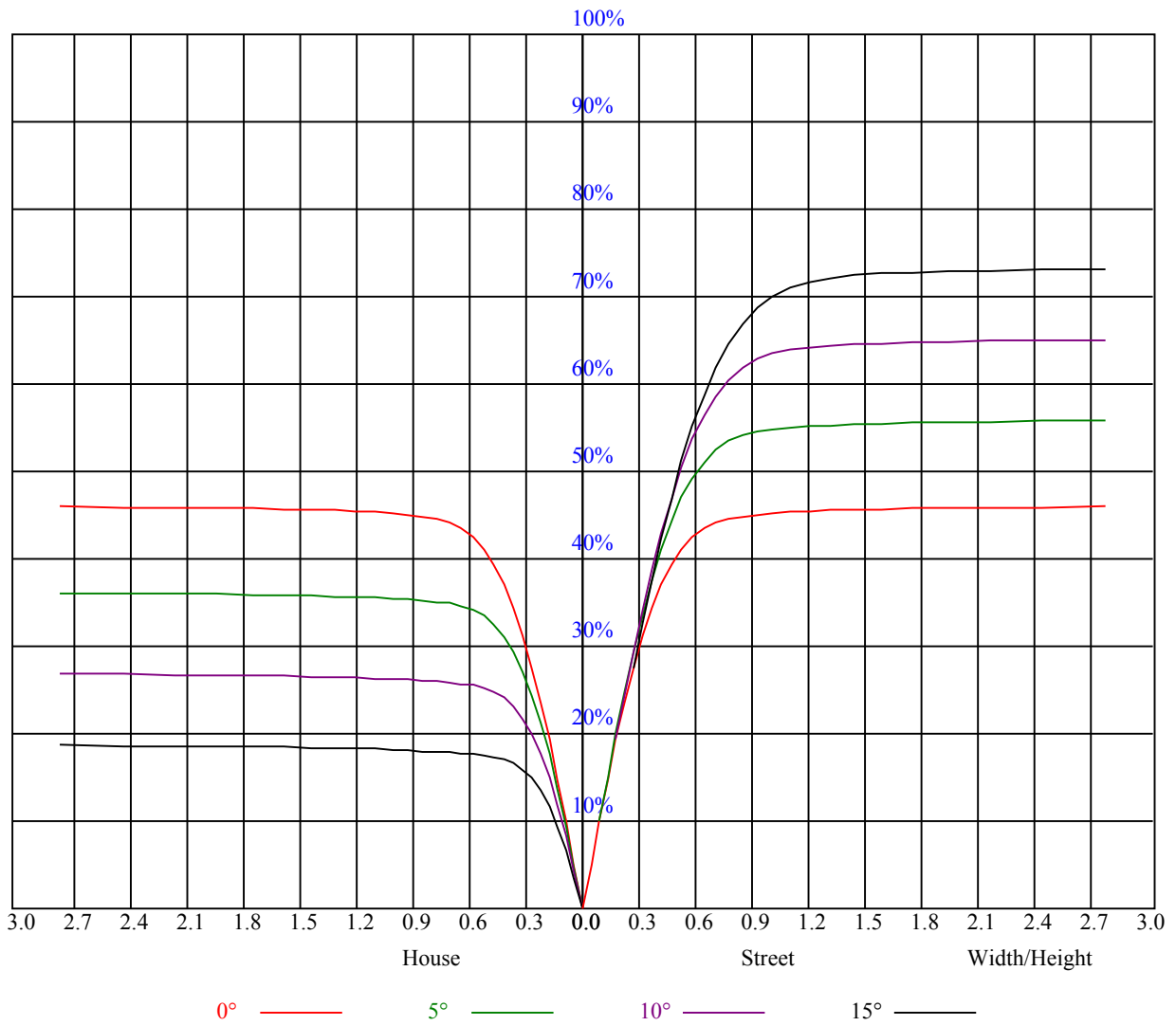


Illumination assessment according UGR										
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30
Rf of Wall	50	30	50	30	30	50	30	50	30	30
Rf of Floor	20	20	20	20	20	20	20	20	20	20
Room dimensions	Viewed crosswise					Viewed endwise				
X	Y									
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	3H	非数字	非数字	非数字	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
	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
	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
8H	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
12H	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	1.08	1.08	1.08	1.03	1.03	1.03	0.99	0.99	0.99	0.95	0.95	0.95	0.93
1	1.03	1.00	0.98	1.01	0.99	0.97	0.97	0.95	0.94	0.94	0.92	0.91	0.90	0.89	0.88	0.87
2	0.96	0.92	0.89	0.94	0.91	0.88	0.91	0.89	0.86	0.89	0.87	0.85	0.86	0.84	0.83	0.81
3	0.90	0.86	0.82	0.89	0.85	0.82	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	0.71	0.79	0.74	0.71	0.78	0.73	0.70	0.76	0.73	0.70	0.75	0.72	0.69	0.68
6	0.76	0.71	0.67	0.75	0.70	0.67	0.74	0.69	0.66	0.72	0.69	0.66	0.71	0.68	0.65	0.64
7	0.72	0.67	0.63	0.71	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.62	0.68	0.65	0.62	0.61
8	0.68	0.63	0.60	0.68	0.63	0.59	0.67	0.62	0.59	0.66	0.62	0.59	0.65	0.61	0.59	0.58
9	0.65	0.60	0.56	0.64	0.60	0.56	0.64	0.59	0.56	0.63	0.59	0.56	0.62	0.58	0.56	0.55
10	0.62	0.57	0.54	0.62	0.57	0.54	0.61	0.56	0.53	0.60	0.56	0.53	0.59	0.56	0.53	0.52





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	3989.33	3975.50	3956.68	3922.91	3871.43	3826.59	3776.78	3718.10	3620.13
45.0	4009.81	3988.78	3983.25	3979.37	3952.80	3927.34	3881.39	3809.43	3752.97
90.0	4015.90	3999.85	4007.05	4003.73	3977.71	3931.77	3881.39	3816.63	3736.37
135.0	4027.53	4030.85	4023.65	4039.15	4038.60	4001.51	3979.37	3915.16	3862.57
180.0	3989.33	4001.51	4025.87	4022.55	4035.83	4029.74	4012.58	3988.23	3944.50
225.0	4017.56	4026.42	4027.53	4028.64	4008.15	3989.33	3953.91	3899.11	3826.04
270.0	4015.90	4018.67	4017.01	4016.46	3999.85	3973.28	3957.78	3906.86	3857.59
315.0	4027.53	4019.22	4008.15	3986.01	3958.89	3922.91	3863.13	3807.77	3741.35
360.0	3989.33	3975.50	3956.68	3922.91	3871.43	3826.59	3776.78	3718.10	3620.13
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3552.04	3455.73	3368.82	3253.68	3171.21	3083.75	2958.65	2856.25	2728.93
45.0	3683.78	3609.05	3515.51	3418.08	3325.09	3213.28	3121.94	3019.54	2887.24
90.0	3648.36	3543.74	3450.19	3348.89	3248.70	3134.67	3041.68	2942.60	2829.12
135.0	3795.04	3714.23	3642.27	3525.47	3410.89	3291.88	3177.85	3059.39	2950.35
180.0	3876.97	3804.45	3719.76	3631.75	3513.85	3403.69	3292.99	3165.12	3063.27
225.0	3746.33	3638.95	3556.47	3459.05	3356.09	3223.24	3128.59	3025.07	2893.33
270.0	3797.26	3708.69	3626.77	3513.29	3418.08	3311.25	3210.51	3088.18	2984.11
315.0	3661.09	3571.97	3481.74	3363.28	3274.17	3184.49	3070.46	2961.97	2851.82
360.0	3552.04	3455.73	3368.82	3253.68	3171.21	3083.75	2958.65	2856.25	2728.93
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2623.76	2513.61	2390.17	2232.41	2102.33	1971.14	1837.74	1675.55	1539.94
45.0	2789.82	2687.42	2550.14	2432.24	2317.10	2188.68	2028.71	1896.97	1763.01
90.0	2692.95	2588.33	2466.00	2317.66	2191.45	2056.94	1891.99	1761.91	1627.95
135.0	2814.18	2699.60	2585.01	2426.15	2308.80	2192.00	2031.48	1899.74	1769.65
180.0	2960.31	2823.03	2709.56	2590.55	2438.33	2316.55	2198.09	2075.76	1914.68
225.0	2782.63	2643.69	2525.78	2401.24	2282.23	2128.90	2001.03	1874.27	1748.62
270.0	2873.41	2760.48	2613.80	2498.66	2376.33	2224.66	2095.69	1973.36	1820.03
315.0	2722.29	2607.15	2495.89	2379.10	2229.09	2104.54	1976.12	1850.47	1692.16
360.0	2623.76	2513.61	2390.17	2232.41	2102.33	1971.14	1837.74	1675.55	1539.94
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1407.09	1100.48	1100.48	966.03	835.73	684.56	576.51	481.35	375.80
45.0	1624.63	1453.59	1319.63	1186.78	1015.19	881.78	721.81	607.23	504.82
90.0	1453.03	1079.67	1079.67	1014.02	880.18	750.43	633.13	503.27	412.05
135.0	1636.81	1469.08	1339.56	1205.60	1074.41	939.35	778.83	662.03	530.84
180.0	1788.47	1658.95	1532.19	1368.89	1239.37	1101.54	921.64	797.09	642.66
225.0	1591.42	1460.78	1086.15	1086.15	1020.22	887.98	762.39	619.85	517.78
270.0	1695.48	1563.74	1402.11	1275.90	1140.84	1001.90	846.36	724.03	613.32
315.0	1561.53	1432.55	1090.69	1090.69	990.88	827.81	710.08	601.75	482.74
360.0	1407.09	1100.48	1100.48	966.03	835.73	684.56	576.51	481.35	375.80
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	306.44	248.21	189.97	155.38	129.03	109.05	89.84	78.44	69.52
45.0	413.49	317.73	284.52	284.52	163.07	128.75	108.71	93.27	81.37
90.0	334.72	272.01	219.26	169.77	139.77	111.87	95.32	82.31	70.24
135.0	436.74	354.26	285.62	285.62	171.21	133.96	112.53	96.04	83.58
180.0	540.80	445.04	362.01	292.27	292.27	173.26	141.32	112.31	95.32
225.0	426.11	328.47	265.25	213.78	164.12	135.12	112.98	92.39	80.32
270.0	517.00	404.63	331.01	282.30	282.30	163.68	134.73	107.88	91.55
315.0	398.99	325.59	263.32	212.00	163.07	133.79	112.09	91.50	79.71
360.0	306.44	248.21	189.97	155.38	129.03	109.05	89.84	78.44	69.52

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	62.44	55.35	50.70	45.89	42.62	39.85	36.98	35.04	33.32
45.0	70.02	62.77	56.85	50.76	46.72	42.51	39.74	37.42	34.87
90.0	62.77	56.68	50.70	46.66	43.29	40.30	37.36	35.37	33.60
135.0	71.90	64.60	58.51	53.47	48.10	44.50	41.46	38.30	36.20
180.0	82.64	72.73	63.38	57.40	51.37	47.33	43.78	40.08	37.75
225.0	70.80	63.44	56.13	51.42	47.38	43.84	40.19	37.70	35.09
270.0	79.21	68.08	61.28	55.74	51.09	46.11	42.84	40.02	37.53
315.0	70.63	61.89	56.35	51.76	46.83	43.51	39.91	37.47	35.37
360.0	62.44	55.35	50.70	45.89	42.62	39.85	36.98	35.04	33.32
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	31.44	30.06	28.84	27.73	26.57	25.68	24.80	24.08	23.19
45.0	33.16	31.66	30.33	28.73	27.68	26.68	25.85	24.80	24.02
90.0	32.05	30.28	28.95	27.84	26.63	25.74	24.74	23.97	23.36
135.0	34.26	32.38	30.83	29.17	28.17	27.12	26.18	25.02	24.24
180.0	35.59	33.38	31.77	30.39	29.17	27.84	26.85	25.91	25.08
225.0	33.27	31.72	30.00	28.78	27.79	26.79	25.63	24.80	24.02
270.0	34.93	33.10	31.50	29.84	28.67	27.57	26.35	25.46	24.47
315.0	33.54	31.94	30.17	28.95	27.84	26.85	25.68	24.91	24.08
360.0	31.44	30.06	28.84	27.73	26.57	25.68	24.80	24.08	23.19
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	22.53	21.98	21.15	20.59	19.93	19.37	18.82	18.32	17.66
45.0	23.36	22.58	21.92	21.37	20.65	20.09	19.54	18.88	18.38
90.0	22.69	21.92	21.31	20.76	20.15	19.48	18.93	18.49	17.82
135.0	23.53	22.92	22.20	21.48	20.81	20.26	19.60	19.10	18.43
180.0	24.08	23.41	22.69	21.92	21.31	20.70	20.09	19.54	18.99
225.0	23.30	22.47	21.81	21.20	20.54	19.93	19.32	18.76	18.21
270.0	23.69	23.03	22.36	21.59	20.98	20.37	19.87	19.15	18.71
315.0	23.19	22.47	21.70	21.09	20.54	19.98	19.26	18.76	18.21
360.0	22.53	21.98	21.15	20.59	19.93	19.37	18.82	18.32	17.66
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	17.10	16.72	16.16	15.61	15.11	14.67	14.12	13.67	13.23
45.0	17.93	17.38	16.83	16.33	15.89	15.44	14.83	14.39	13.84
90.0	17.33	16.88	16.27	15.83	15.39	14.78	14.39	13.89	13.34
135.0	17.88	17.33	16.77	16.33	15.89	15.44	14.83	14.39	13.89
180.0	18.32	17.82	17.33	16.83	16.22	15.72	15.28	14.78	14.23
225.0	17.77	17.10	16.61	16.11	15.61	15.06	14.56	14.12	13.56
270.0	18.21	17.49	17.05	16.55	15.94	15.44	14.95	14.34	13.95
315.0	17.71	17.05	16.61	16.16	15.50	15.06	14.56	14.00	13.51
360.0	17.10	16.72	16.16	15.61	15.11	14.67	14.12	13.67	13.23
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	12.79	12.40	12.07	11.73	11.40	11.13	10.79	10.57	10.46
45.0	13.45	13.01	12.45	12.12	11.79	11.46	11.18	10.85	10.63
90.0	12.95	12.45	12.23	11.79	11.51	11.29	10.96	10.68	10.46
135.0	13.51	12.95	12.51	12.12	11.73	11.40	11.18	10.85	10.63
180.0	13.78	13.28	12.79	12.34	12.07	11.62	11.29	11.13	10.79
225.0	13.17	12.68	12.29	11.96	11.68	11.29	11.07	10.79	10.57
270.0	13.51	13.01	12.62	12.18	11.85	11.57	11.24	10.96	10.68
315.0	13.06	12.68	12.34	12.01	11.62	11.35	11.07	10.74	10.57
360.0	12.79	12.40	12.07	11.73	11.40	11.13	10.79	10.57	10.46

Intensity data(cd)

C/γ(°)	90.0
0.0	10.52
45.0	10.52
90.0	10.41
135.0	10.46
180.0	10.52
225.0	10.52
270.0	10.52
315.0	10.52
360.0	10.52