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NATA

Client:

LumCAT: 2-2646-L

Luminaire: 92.70.412.00

Report No: 20231011-B003

Ballast type: AC

Test No: 20231011-C003

Voltage(V): 34.760

LampCAT: TRIDONIC SLE G7 15MM

Current(A): 0.530

Lamp flux(lm): 3047.8

Power (W): 18.422

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2791.27, Efficiency(%): 91.58% , Luminous Efficacy(lm/W): 151.52

Central intensity(cd): 4911.747, Maximum intensity(cd): 4911.747

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=46.4

[C90/270]Total=46.4

Field angle(10%Imax): [C0/180]Total=68.0

[C90/270]Total=68.0

Maximum s/h(1/2): C0_180=0.74 C90_270=0.74

Maximum s/h(1/4): C0_180=0.71 C90_270=0.71

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 91.58%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.238%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4911.746	0.000	0	0.00%	0.00%
1.0	4902.613	4.696	4.696	0.15%	0.17%
2.0	4869.954	14.027	18.723	0.46%	0.67%
3.0	4832.037	23.204	41.926	0.76%	1.50%
4.0	4769.418	32.139	74.066	1.05%	2.65%
5.0	4697.943	40.728	114.794	1.34%	4.11%
6.0	4607.855	48.904	163.698	1.60%	5.86%
7.0	4526.624	56.698	220.396	1.86%	7.90%
8.0	4440.064	64.173	284.569	2.11%	10.19%
9.0	4356.550	71.292	355.86	2.34%	12.75%
10.0	4263.763	78.011	433.871	2.56%	15.54%
11.0	4172.084	84.291	518.162	2.77%	18.56%
12.0	4073.001	90.131	608.293	2.96%	21.79%
13.0	3977.862	95.543	703.837	3.13%	25.22%
14.0	3864.941	100.387	804.224	3.29%	28.81%
15.0	3749.113	104.529	908.753	3.43%	32.56%
16.0	3620.278	107.982	1016.735	3.54%	36.43%
17.0	3491.788	110.754	1127.489	3.63%	40.39%
18.0	3349.045	112.790	1240.279	3.70%	44.43%
19.0	3194.816	113.850	1354.129	3.74%	48.51%
20.0	3029.932	113.930	1468.059	3.74%	52.59%
21.0	2863.663	113.169	1581.228	3.71%	56.65%
22.0	2687.224	111.547	1692.776	3.66%	60.65%
23.0	2491.479	108.663	1801.439	3.57%	64.54%
24.0	2306.114	104.893	1906.332	3.44%	68.30%
25.0	2098.607	100.154	2006.485	3.29%	71.88%
26.0	1899.542	94.377	2100.862	3.10%	75.27%
27.0	1665.963	87.231	2188.093	2.86%	78.39%
28.0	1406.839	77.797	2265.89	2.55%	81.18%
29.0	1228.345	68.944	2334.834	2.26%	83.65%
30.0	1076.358	62.227	2397.06	2.04%	85.88%
31.0	902.174	55.060	2452.12	1.81%	87.85%
32.0	741.254	47.082	2499.202	1.54%	89.54%
33.0	600.497	39.528	2538.731	1.30%	90.95%
34.0	486.233	32.888	2571.618	1.08%	92.13%
35.0	383.490	27.010	2598.629	0.89%	93.10%
36.0	305.144	21.926	2620.555	0.72%	93.88%
37.0	251.949	18.169	2638.724	0.60%	94.54%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	213.776	15.545	2654.269	0.51%	95.09%
39.0	152.658	12.507	2666.777	0.41%	95.54%
40.0	112.534	9.249	2676.026	0.30%	95.87%
41.0	90.593	7.233	2683.259	0.24%	96.13%
42.0	74.167	5.986	2689.245	0.20%	96.34%
43.0	63.394	5.096	2694.341	0.17%	96.53%
44.0	55.070	4.471	2698.812	0.15%	96.69%
45.0	49.106	4.004	2702.815	0.13%	96.83%
46.0	44.497	3.661	2706.476	0.12%	96.96%
47.0	40.574	3.384	2709.859	0.11%	97.08%
48.0	37.578	3.159	2713.019	0.10%	97.20%
49.0	34.887	2.976	2715.995	0.10%	97.30%
50.0	32.693	2.818	2718.812	0.09%	97.40%
51.0	30.756	2.684	2721.497	0.09%	97.50%
52.0	29.151	2.571	2724.067	0.08%	97.59%
53.0	27.836	2.479	2726.546	0.08%	97.68%
54.0	26.563	2.398	2728.944	0.08%	97.77%
55.0	25.539	2.326	2731.27	0.08%	97.85%
56.0	24.529	2.262	2733.532	0.07%	97.93%
57.0	23.747	2.207	2735.739	0.07%	98.01%
58.0	22.937	2.159	2737.898	0.07%	98.09%
59.0	22.314	2.116	2740.014	0.07%	98.16%
60.0	21.650	2.077	2742.091	0.07%	98.24%
61.0	21.090	2.040	2744.13	0.07%	98.31%
62.0	20.585	2.008	2746.138	0.07%	98.38%
63.0	20.059	1.977	2748.115	0.06%	98.45%
64.0	19.630	1.948	2750.063	0.06%	98.52%
65.0	19.215	1.922	2751.985	0.06%	98.59%
66.0	18.793	1.896	2753.881	0.06%	98.66%
67.0	18.391	1.870	2755.751	0.06%	98.73%
68.0	18.025	1.845	2757.596	0.06%	98.79%
69.0	17.651	1.820	2759.416	0.06%	98.86%
70.0	17.263	1.793	2761.209	0.06%	98.92%
71.0	16.917	1.767	2762.975	0.06%	98.99%
72.0	16.571	1.741	2764.717	0.06%	99.05%
73.0	16.226	1.715	2766.432	0.06%	99.11%
74.0	15.886	1.688	2768.12	0.06%	99.17%
75.0	15.527	1.660	2769.78	0.05%	99.23%

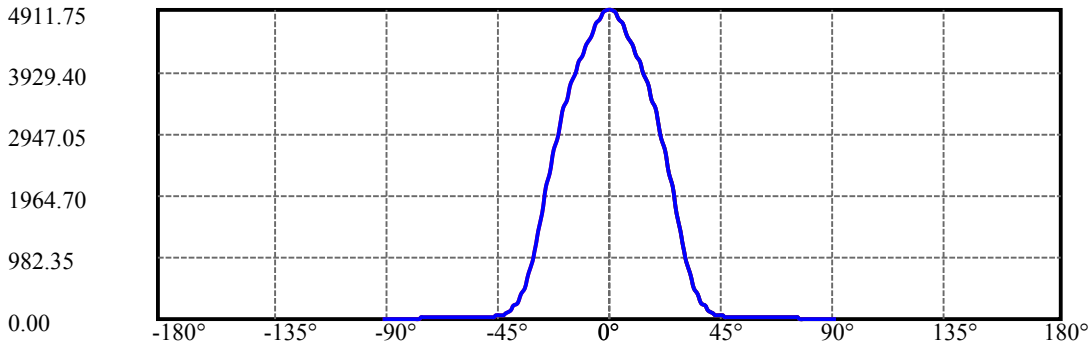
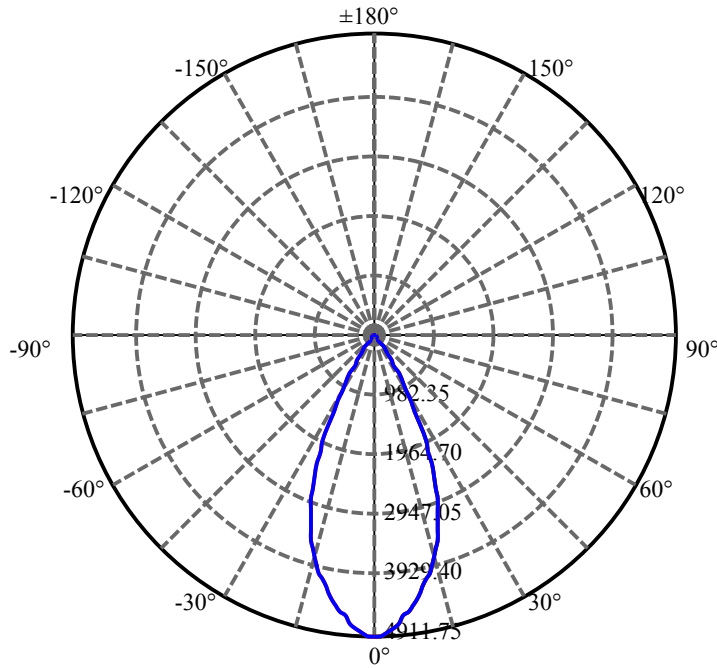
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	15.201	1.631	2771.411	0.05%	99.29%
77.0	14.842	1.602	2773.013	0.05%	99.35%
78.0	14.510	1.571	2774.584	0.05%	99.40%
79.0	14.164	1.541	2776.125	0.05%	99.46%
80.0	13.838	1.510	2777.634	0.05%	99.51%
81.0	13.527	1.480	2779.114	0.05%	99.56%
82.0	13.216	1.450	2780.564	0.05%	99.62%
83.0	12.925	1.421	2781.985	0.05%	99.67%
84.0	12.662	1.394	2783.379	0.05%	99.72%
85.0	12.413	1.369	2784.748	0.04%	99.77%
86.0	12.178	1.344	2786.092	0.04%	99.81%
87.0	11.949	1.320	2787.412	0.04%	99.86%
88.0	11.756	1.299	2788.711	0.04%	99.91%
89.0	11.645	1.283	2789.994	0.04%	99.95%
90.0	11.569	1.273	2791.266	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2397.06	78.65%	85.88%
0-40	2676.03	87.80%	95.87%
0-60	2742.09	89.97%	98.24%
0-90	2789.99	91.54%	99.95%
0-120	2789.99	91.54%	99.95%
0-180	2791.27	91.58%	100.00%
60-90	47.90	1.57%	1.72%
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%
0-27.58	2233.01	73.27%	80.00%

ZONAL LUMEN SUMMARY

0-10	433.87
10-20	1034.19
20-30	929.00
30-40	278.97
40-50	42.79
50-60	23.28
60-70	19.12
70-80	16.43
80-90	12.36
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



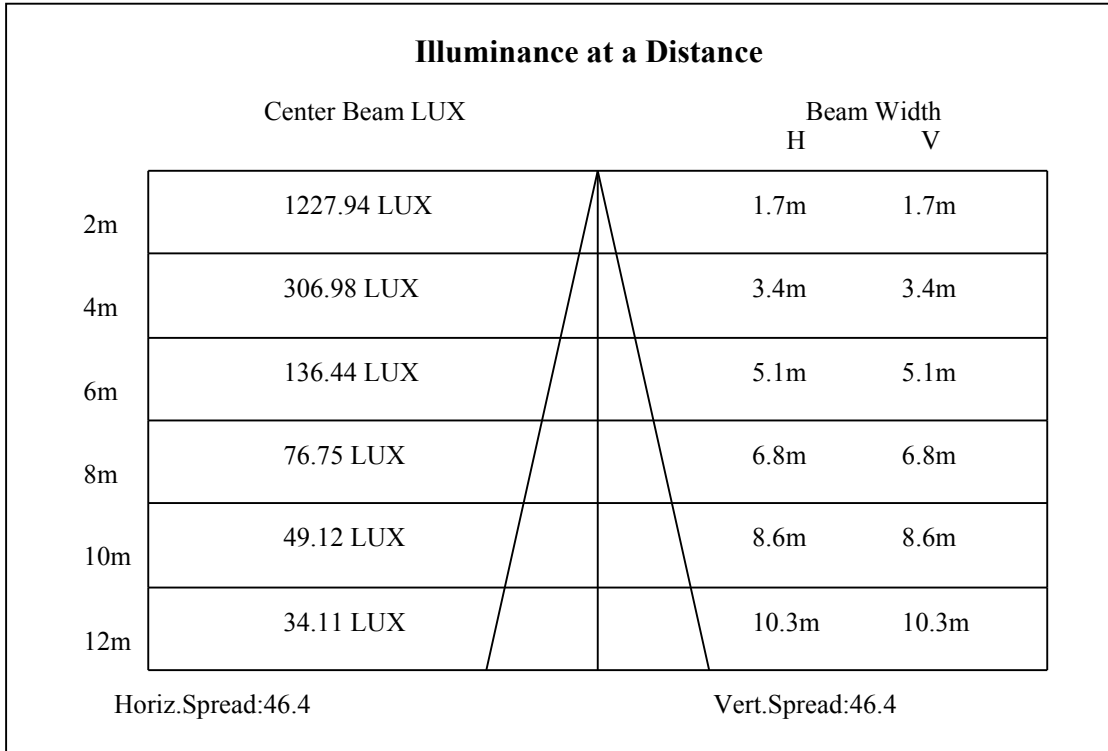
C0(Max): —————

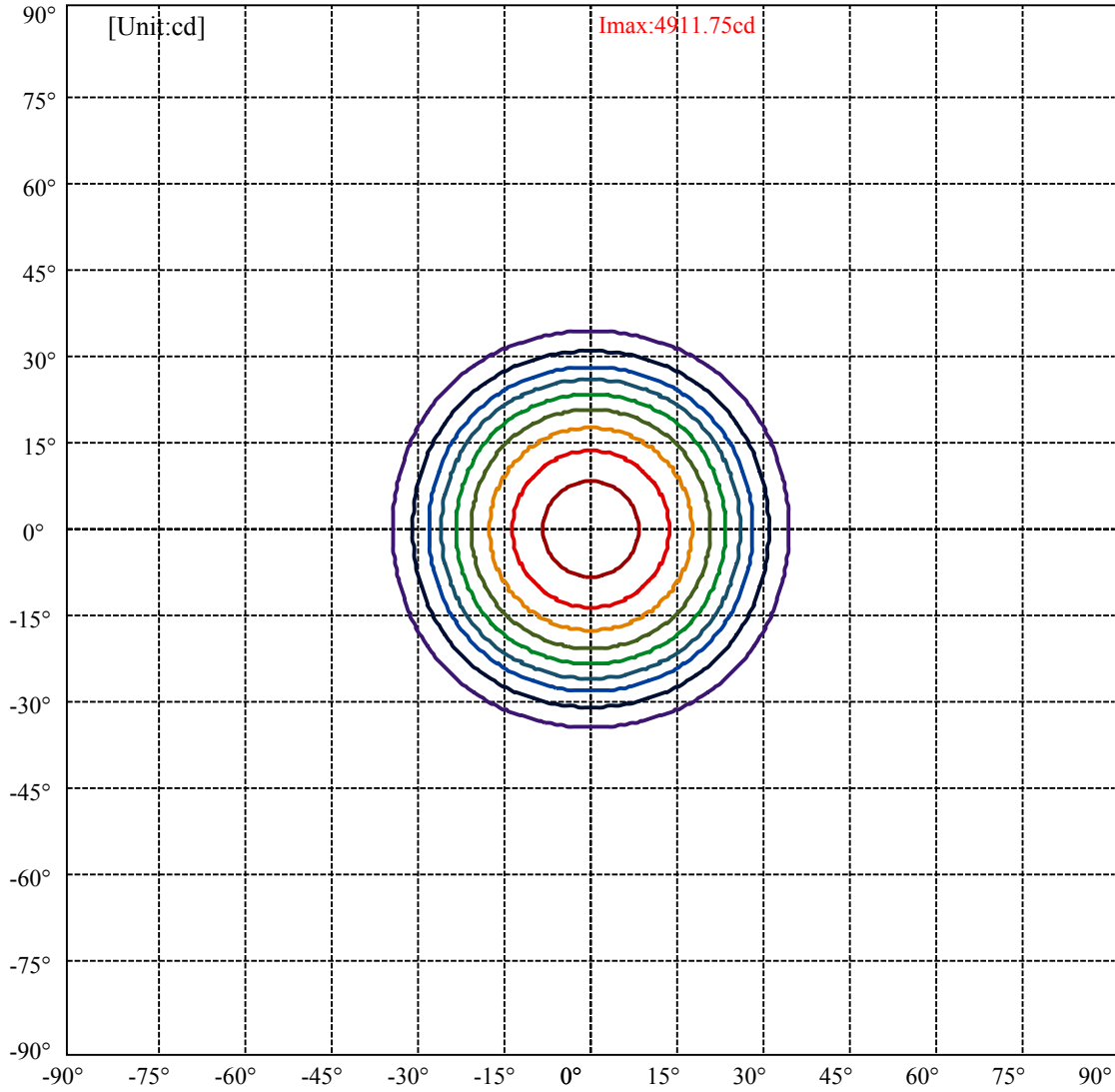
C0/C180: —————

C90/C270: —————

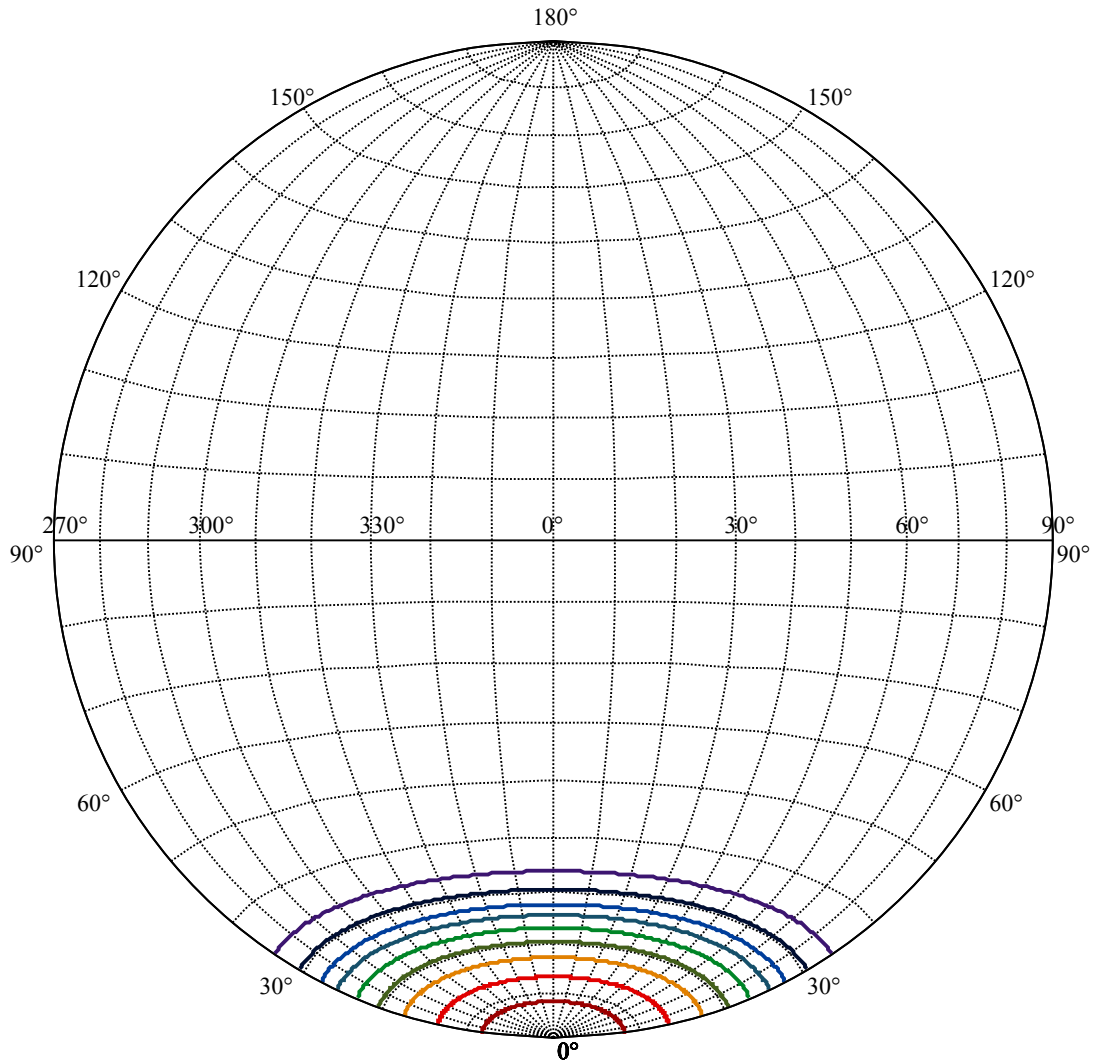
Field angle(10%Imax):C0/180Left:34.0 Right:34.0
:C90/270Left:34.0 Right:34.0

Beam Angle(50%Imax):C0/180Left:23.2 Right:23.2
:C90/270Left:23.2 Right:23.2





(10%Imax) 491.175	—
(20%Imax) 982.349	—
(30%Imax) 1473.52	—
(40%Imax) 1964.7	—
(50%Imax) 2455.87	—
(60%Imax) 2947.05	—
(70%Imax) 3438.22	—
(80%Imax) 3929.4	—
(90%Imax) 4420.57	—



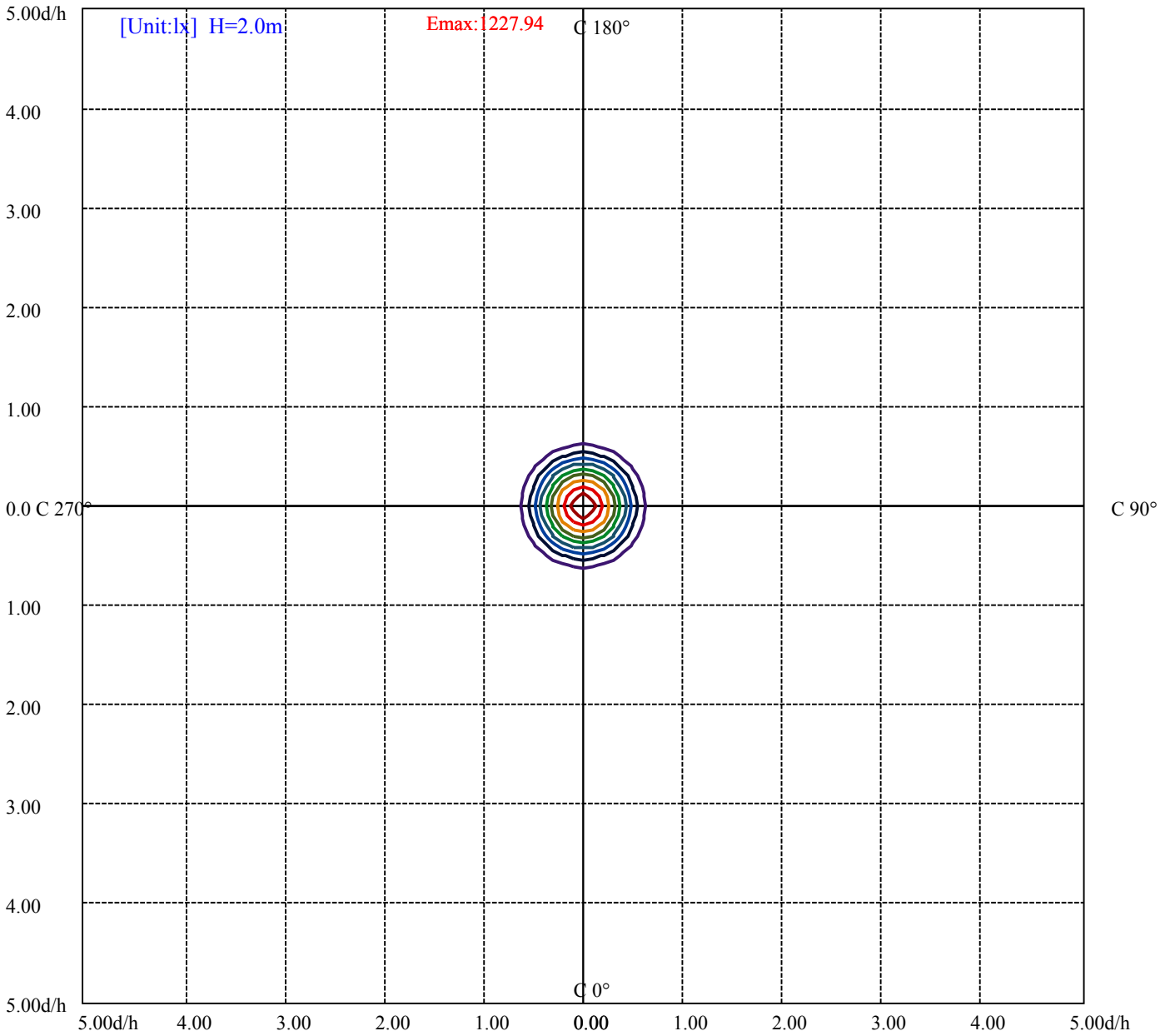
House

[Unit:cd]

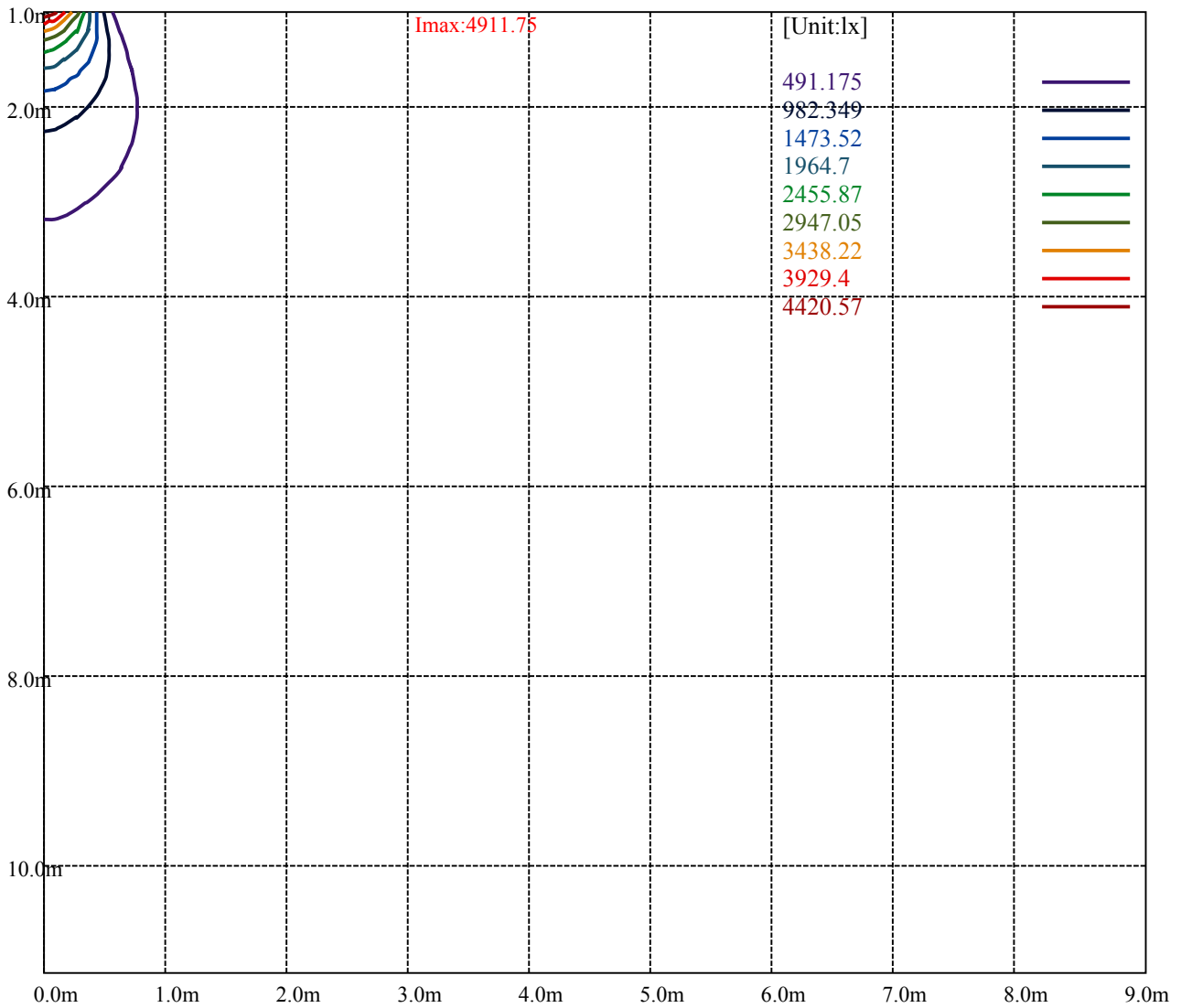
Road

Imax:4911.75

(10%Imax)	491.175	—
(20%Imax)	982.349	—
(30%Imax)	1473.52	—
(40%Imax)	1964.7	—
(50%Imax)	2455.87	—
(60%Imax)	2947.05	—
(70%Imax)	3438.22	—
(80%Imax)	3929.4	—
(90%Imax)	4420.57	—



- (10%Emax) 122.7935
- (20%Emax) 245.5872
- (30%Emax) 368.38
- (40%Emax) 491.175
- (50%Emax) 613.9675
- (60%Emax) 736.7625
- (70%Emax) 859.555
- (80%Emax) 982.35
- (90%Emax) 1105.142



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

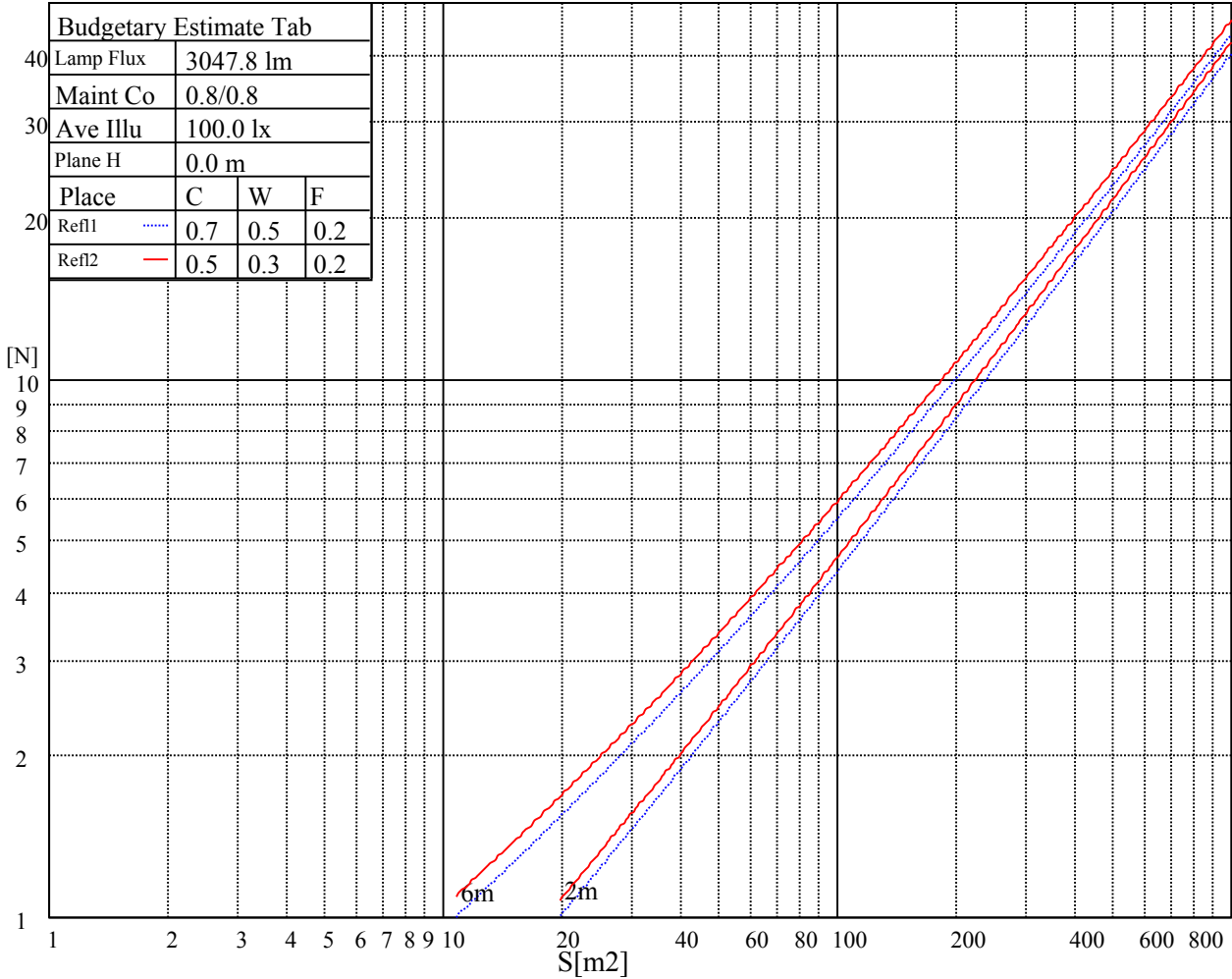
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

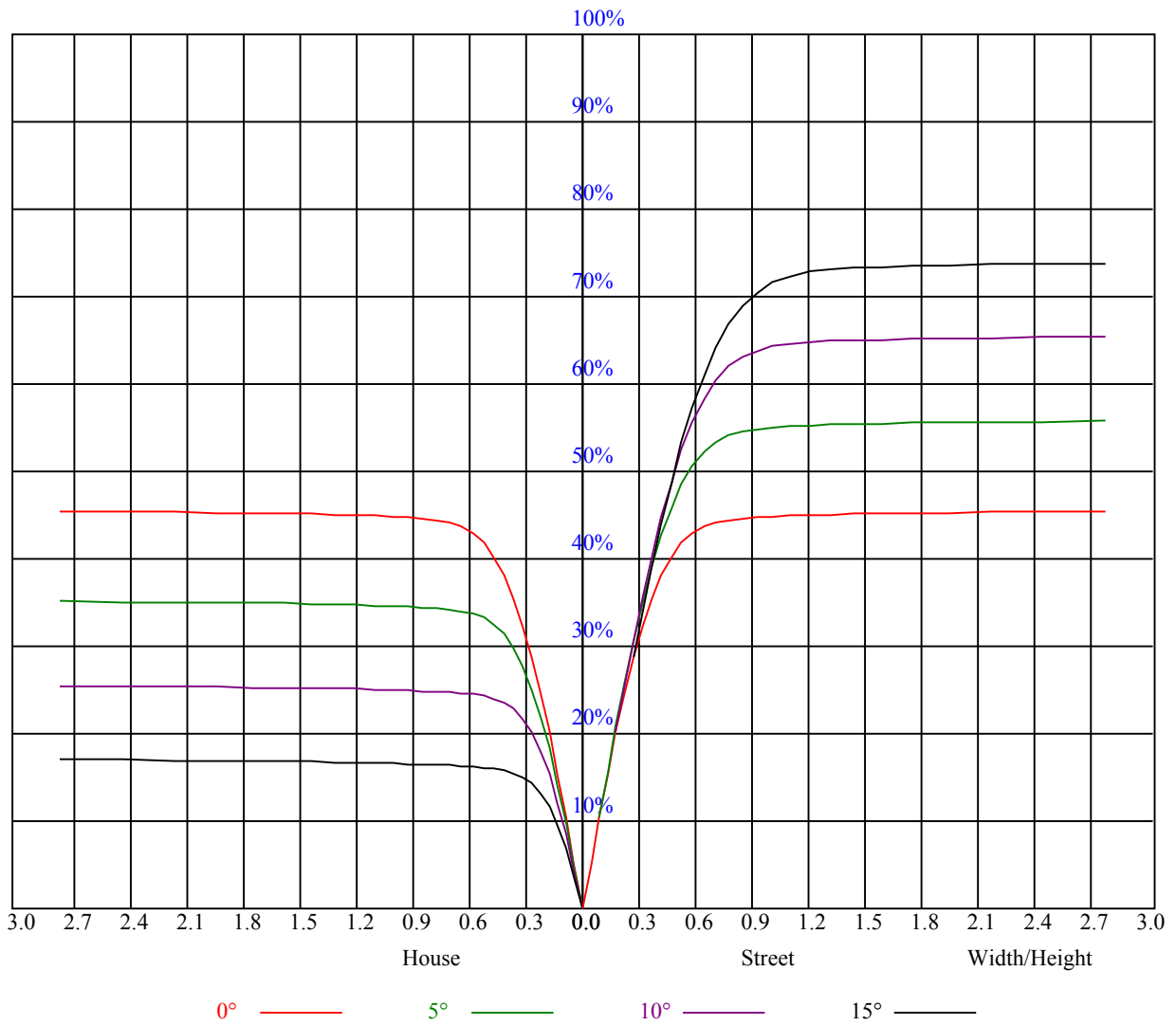


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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	1.09	1.09	1.09	1.06	1.06	1.06	1.02	1.02	1.02	0.97	0.97	0.97	0.93	0.93	0.93	0.92
1	1.02	1.00	0.98	1.00	0.98	0.96	0.96	0.95	0.93	0.93	0.92	0.90	0.90	0.89	0.88	0.86
2	0.95	0.92	0.89	0.94	0.91	0.88	0.91	0.88	0.86	0.88	0.86	0.84	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	0.77
4	0.85	0.80	0.77	0.84	0.80	0.76	0.82	0.78	0.76	0.80	0.77	0.75	0.79	0.76	0.74	0.73
5	0.80	0.76	0.72	0.80	0.75	0.72	0.78	0.74	0.71	0.77	0.73	0.71	0.75	0.72	0.70	0.69
6	0.76	0.72	0.68	0.76	0.71	0.68	0.74	0.70	0.67	0.73	0.70	0.67	0.72	0.69	0.66	0.65
7	0.73	0.68	0.64	0.72	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.63	0.69	0.66	0.63	0.62
8	0.69	0.64	0.61	0.69	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.60	0.66	0.63	0.60	0.59
9	0.66	0.61	0.58	0.66	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.58	0.63	0.60	0.57	0.56
10	0.63	0.58	0.55	0.63	0.58	0.55	0.62	0.58	0.55	0.61	0.58	0.55	0.61	0.57	0.55	0.54



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	4869.40	4835.64	4780.28	4703.89	4607.58	4521.78	4440.41	4345.20	4263.28
45.0	4934.16	4895.42	4847.81	4814.60	4737.66	4661.27	4564.40	4481.93	4396.13
90.0	4907.59	4874.94	4835.08	4764.78	4705.55	4625.29	4519.01	4443.18	4363.47
135.0	4935.83	4938.04	4902.61	4881.03	4806.85	4738.77	4665.15	4581.56	4488.01
180.0	4869.40	4928.63	4939.70	4909.26	4894.31	4836.19	4763.12	4690.06	4588.20
225.0	4934.16	4920.88	4900.95	4878.81	4826.78	4771.42	4663.49	4581.56	4502.96
270.0	4907.59	4935.83	4903.72	4886.01	4850.58	4776.96	4706.11	4624.74	4526.21
315.0	4935.83	4891.54	4849.47	4817.92	4726.04	4651.86	4541.15	4464.77	4392.25
360.0	4869.40	4835.64	4780.28	4703.89	4607.58	4521.78	4440.41	4345.20	4263.28
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4141.50	4048.51	3957.17	3860.30	3732.99	3618.41	3496.63	3357.69	3182.22
45.0	4297.04	4202.94	4102.75	3986.51	3896.84	3799.97	3692.58	3548.66	3425.78
90.0	4282.65	4154.79	4057.36	3964.92	3869.71	3741.85	3631.69	3504.93	3384.26
135.0	4417.16	4333.58	4230.62	4132.64	4044.08	3921.19	3817.13	3668.23	3542.58
180.0	4527.87	4447.05	4369.00	4274.90	4192.98	4077.84	3979.31	3858.64	3743.51
225.0	4418.82	4346.86	4264.94	4157.55	4066.22	3964.37	3821.56	3708.08	3585.20
270.0	4455.91	4377.31	4285.42	4183.57	4094.45	4001.46	3874.70	3760.67	3648.30
315.0	4311.44	4199.07	4109.40	4023.60	3925.62	3794.43	3679.30	3555.31	3422.46
360.0	4141.50	4048.51	3957.17	3860.30	3732.99	3618.41	3496.63	3357.69	3182.22
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3038.86	2889.40	2686.25	2526.28	2355.79	2124.42	1935.11	1751.33	1519.40
45.0	3297.91	3167.28	3002.32	2853.42	2700.09	2505.25	2335.87	2102.27	1908.54
90.0	3249.20	3070.41	2923.72	2766.52	2560.60	2387.35	2204.12	2020.35	1779.56
135.0	3417.48	3285.18	3090.89	2932.02	2769.29	2605.44	2380.70	2192.50	2006.51
180.0	3590.18	3441.83	3300.68	3147.90	2934.24	2756.55	2581.08	2344.17	2158.74
225.0	3446.26	3259.16	3102.51	2937.56	2773.71	2546.21	2356.90	2125.52	1943.41
270.0	3508.81	3361.57	3215.99	3038.86	2867.81	2689.58	2515.21	2301.55	2113.90
315.0	3243.67	3083.69	2917.08	2706.74	2536.25	2317.05	2139.91	1951.16	1766.28
360.0	3038.86	2889.40	2686.25	2526.28	2355.79	2124.42	1935.11	1751.33	1519.40
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1103.25	1103.25	935.31	783.03	649.30	532.72	410.78	330.02	262.54
45.0	1707.05	1458.51	1260.35	1077.13	905.53	715.67	587.25	476.54	382.99
90.0	1573.65	1080.28	1080.28	945.16	782.09	640.28	491.93	393.12	294.92
135.0	1816.65	1574.75	1383.78	1157.94	986.35	828.59	658.10	540.75	438.90
180.0	1922.38	1733.07	1548.74	1315.15	1135.80	968.08	815.30	649.24	536.87
225.0	1749.67	1508.33	1068.66	1068.66	895.95	743.62	610.05	497.13	383.55
270.0	1923.48	1730.85	1483.97	1286.92	1084.88	860.69	705.70	573.96	440.01
315.0	1531.58	1065.67	1065.67	976.88	777.50	640.39	524.86	429.10	328.14
360.0	1103.25	1103.25	935.31	783.03	649.30	532.72	410.78	330.02	262.54
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	208.24	155.43	122.55	98.31	76.94	65.82	56.24	50.59	45.89
45.0	290.00	290.00	216.82	141.37	107.94	89.17	72.96	63.82	56.35
90.0	233.54	185.93	148.46	114.03	93.49	78.27	67.37	57.46	51.59
135.0	352.55	296.09	296.09	157.76	125.93	97.15	80.59	68.97	58.67
180.0	437.79	353.65	282.80	282.80	160.19	125.82	95.48	78.71	64.21
225.0	306.71	244.39	193.68	143.97	113.97	92.27	72.96	62.49	53.42
270.0	350.89	293.87	293.87	159.14	126.98	97.81	81.15	68.86	60.00
315.0	261.44	196.23	155.93	123.88	94.82	78.44	66.59	56.24	50.43
360.0	208.24	155.43	122.55	98.31	76.94	65.82	56.24	50.59	45.89

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	42.01	38.08	35.54	33.38	31.50	29.50	28.17	27.01	26.02
45.0	49.21	44.78	41.18	38.14	34.82	32.66	30.78	29.23	27.62
90.0	46.83	42.07	39.08	36.64	34.04	32.11	30.39	28.51	27.40
135.0	52.42	47.44	42.46	39.25	36.53	33.71	31.88	30.22	28.89
180.0	56.35	50.59	44.78	41.13	38.08	35.54	32.88	31.05	29.50
225.0	48.21	43.95	40.35	36.70	34.32	32.27	30.56	28.73	27.46
270.0	51.92	46.88	42.90	39.63	36.20	33.99	31.66	30.11	28.67
315.0	45.89	42.18	38.30	35.76	33.60	31.77	29.72	28.34	27.12
360.0	42.01	38.08	35.54	33.38	31.50	29.50	28.17	27.01	26.02
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	24.85	24.08	23.25	22.58	22.03	21.42	20.92	20.48	20.09
45.0	26.51	25.52	24.41	23.64	22.81	22.20	21.59	21.09	20.48
90.0	26.24	25.24	24.19	23.41	22.69	22.09	21.31	20.81	20.37
135.0	27.40	26.40	25.46	24.58	23.64	22.97	22.14	21.59	21.09
180.0	28.12	26.68	25.63	24.80	23.80	23.14	22.42	21.70	21.20
225.0	26.35	25.35	24.24	23.47	22.58	21.98	21.37	20.70	20.20
270.0	27.18	26.13	25.13	24.24	23.30	22.64	22.03	21.42	20.76
315.0	25.85	24.91	23.91	23.25	22.64	22.09	21.42	20.92	20.48
360.0	24.85	24.08	23.25	22.58	22.03	21.42	20.92	20.48	20.09
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	19.54	19.15	18.82	18.43	17.99	17.66	17.27	16.88	16.55
45.0	19.98	19.60	19.21	18.71	18.38	18.05	17.55	17.21	16.88
90.0	19.82	19.43	18.93	18.54	18.21	17.71	17.38	17.05	16.72
135.0	20.48	20.04	19.65	19.15	18.76	18.43	18.05	17.60	17.21
180.0	20.54	20.04	19.65	19.21	18.76	18.43	18.10	17.71	17.33
225.0	19.76	19.37	18.93	18.54	18.16	17.82	17.44	17.05	16.77
270.0	20.31	19.87	19.37	18.99	18.49	18.16	17.82	17.44	17.05
315.0	20.04	19.54	19.15	18.76	18.38	17.93	17.60	17.16	16.83
360.0	19.54	19.15	18.82	18.43	17.99	17.66	17.27	16.88	16.55
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	16.22	15.83	15.50	15.11	14.83	14.50	14.17	13.78	13.45
45.0	16.50	16.11	15.78	15.39	15.11	14.78	14.39	14.12	13.78
90.0	16.33	16.00	15.61	15.28	14.89	14.56	14.28	13.89	13.62
135.0	16.88	16.61	16.16	15.89	15.50	15.11	14.78	14.39	14.06
180.0	16.99	16.66	16.33	16.00	15.67	15.28	14.95	14.67	14.23
225.0	16.38	16.11	15.78	15.39	15.06	14.67	14.34	14.00	13.78
270.0	16.72	16.38	16.11	15.67	15.39	15.06	14.72	14.34	14.00
315.0	16.55	16.11	15.83	15.50	15.17	14.78	14.45	14.12	13.78
360.0	16.22	15.83	15.50	15.11	14.83	14.50	14.17	13.78	13.45
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	13.23	12.90	12.62	12.40	12.23	11.96	11.79	11.57	11.62
45.0	13.45	13.17	12.84	12.57	12.29	12.07	11.85	11.68	11.51
90.0	13.34	13.01	12.73	12.51	12.23	12.01	11.85	11.62	11.57
135.0	13.78	13.45	13.12	12.90	12.57	12.34	12.12	11.90	11.79
180.0	13.95	13.62	13.34	13.01	12.79	12.45	12.18	11.96	11.85
225.0	13.40	13.12	12.90	12.57	12.34	12.12	11.90	11.73	11.57
270.0	13.62	13.34	13.01	12.73	12.45	12.29	12.01	11.85	11.68
315.0	13.45	13.12	12.84	12.62	12.40	12.18	11.90	11.73	11.57
360.0	13.23	12.90	12.62	12.40	12.23	11.96	11.79	11.57	11.62

Intensity data(cd)

C/ γ (°)	90.0
0.0	11.62
45.0	11.51
90.0	11.57
135.0	11.57
180.0	11.62
225.0	11.51
270.0	11.57
315.0	11.57
360.0	11.62