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## NATA

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Client:

LumCAT: 2-2639-L

Luminaire: 92.70.412.00

Report No: 20231011-B015

Ballast type: AC

Test No: 20231011-C015

Voltage(V): 34.730

LampCAT: TRIDONIC SLE G7 15MM

Current(A): 0.530

Lamp flux(lm): 3047.8

Power (W): 18.406

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): 2889.29, Efficiency(%): 94.80% , Luminous Efficacy(lm/W): 156.98

Central intensity(cd): 11179.630, Maximum intensity(cd): 11179.630

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

Beam Angle(50%Imax): [C0/180]Total=22.0

[C90/270]Total=22.0

Field angle(10%Imax): [C0/180]Total=56.2

[C90/270]Total=56.2

Beam angle of C0 plane : 22.00

Aveage BeamAngle(IEC 61341):22.00

Maximum s/h(1/2): C0\_180=0.37 C90\_270=0.37

Maximum s/h(1/4): C0\_180=0.41 C90\_270=0.41

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 94.80%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 97.962%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	11179.628	0.000	0	0.00%	0.00%
1.0	11094.314	10.658	10.658	0.35%	0.37%
2.0	10998.068	31.709	42.367	1.04%	1.47%
3.0	10658.405	51.795	94.162	1.70%	3.26%
4.0	10146.868	69.642	163.804	2.29%	5.67%
5.0	9566.832	84.807	248.611	2.78%	8.60%
6.0	8914.836	97.126	345.737	3.19%	11.97%
7.0	8257.097	106.586	452.323	3.50%	15.66%
8.0	7510.169	112.843	565.166	3.70%	19.56%
9.0	6851.461	116.393	681.56	3.82%	23.59%
10.0	6184.865	117.974	799.534	3.87%	27.67%
11.0	5589.814	117.653	917.187	3.86%	31.74%
12.0	5044.028	116.243	1033.43	3.81%	35.77%
13.0	4545.638	113.805	1147.235	3.73%	39.71%
14.0	4071.396	110.297	1257.532	3.62%	43.52%
15.0	3651.954	106.030	1363.562	3.48%	47.19%
16.0	3250.363	101.138	1464.7	3.32%	50.69%
17.0	2891.395	95.644	1560.344	3.14%	54.00%
18.0	2668.874	91.677	1652.021	3.01%	57.18%
19.0	2450.158	89.061	1741.081	2.92%	60.26%
20.0	2234.210	85.737	1826.818	2.81%	63.23%
21.0	1979.652	80.915	1907.733	2.65%	66.03%
22.0	1835.456	76.666	1984.399	2.52%	68.68%
23.0	1699.701	74.177	2058.576	2.43%	71.25%
24.0	1583.459	71.782	2130.358	2.36%	73.73%
25.0	1456.844	69.130	2199.488	2.27%	76.13%
26.0	1330.500	65.796	2265.283	2.16%	78.40%
27.0	1229.051	62.620	2327.903	2.05%	80.57%
28.0	1123.526	59.562	2387.466	1.95%	82.63%
29.0	1023.191	56.164	2443.63	1.84%	84.58%
30.0	898.486	51.885	2495.515	1.70%	86.37%
31.0	786.755	46.898	2542.412	1.54%	87.99%
32.0	676.767	41.928	2584.341	1.38%	89.45%
33.0	573.650	36.838	2621.178	1.21%	90.72%
34.0	465.496	31.448	2652.626	1.03%	91.81%
35.0	374.668	26.092	2678.718	0.86%	92.71%
36.0	296.758	21.378	2700.097	0.70%	93.45%
37.0	239.439	17.488	2717.584	0.57%	94.06%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	188.292	14.277	2731.861	0.47%	94.55%
39.0	131.458	10.914	2742.775	0.36%	94.93%
40.0	94.904	7.895	2750.67	0.26%	95.20%
41.0	80.879	6.260	2756.93	0.21%	95.42%
42.0	72.603	5.576	2762.506	0.18%	95.61%
43.0	65.179	5.104	2767.61	0.17%	95.79%
44.0	59.747	4.715	2772.325	0.15%	95.95%
45.0	54.745	4.400	2776.725	0.14%	96.10%
46.0	51.147	4.141	2780.866	0.14%	96.25%
47.0	47.749	3.933	2784.799	0.13%	96.38%
48.0	45.418	3.766	2788.566	0.12%	96.51%
49.0	43.203	3.639	2792.205	0.12%	96.64%
50.0	41.432	3.529	2795.734	0.12%	96.76%
51.0	40.014	3.446	2799.18	0.11%	96.88%
52.0	38.941	3.388	2802.568	0.11%	97.00%
53.0	38.194	3.355	2805.923	0.11%	97.11%
54.0	37.765	3.348	2809.271	0.11%	97.23%
55.0	37.710	3.369	2812.64	0.11%	97.35%
56.0	38.028	3.422	2816.062	0.11%	97.47%
57.0	38.485	3.498	2819.561	0.11%	97.59%
58.0	38.831	3.575	2823.136	0.12%	97.71%
59.0	38.872	3.633	2826.769	0.12%	97.84%
60.0	38.235	3.643	2830.412	0.12%	97.96%
61.0	36.810	3.581	2833.993	0.12%	98.09%
62.0	34.395	3.431	2837.424	0.11%	98.20%
63.0	31.240	3.192	2840.616	0.10%	98.32%
64.0	27.988	2.906	2843.522	0.10%	98.42%
65.0	25.137	2.629	2846.152	0.09%	98.51%
66.0	23.159	2.410	2848.561	0.08%	98.59%
67.0	21.643	2.253	2850.814	0.07%	98.67%
68.0	20.716	2.146	2852.96	0.07%	98.74%
69.0	19.955	2.075	2855.035	0.07%	98.81%
70.0	19.346	2.018	2857.053	0.07%	98.88%
71.0	18.758	1.969	2859.022	0.06%	98.95%
72.0	18.225	1.923	2860.946	0.06%	99.02%
73.0	17.755	1.881	2862.827	0.06%	99.08%
74.0	17.284	1.842	2864.669	0.06%	99.15%
75.0	16.862	1.804	2866.473	0.06%	99.21%

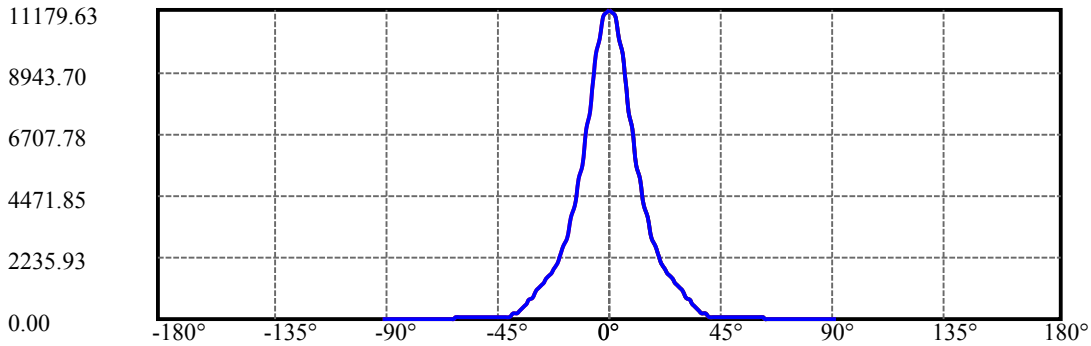
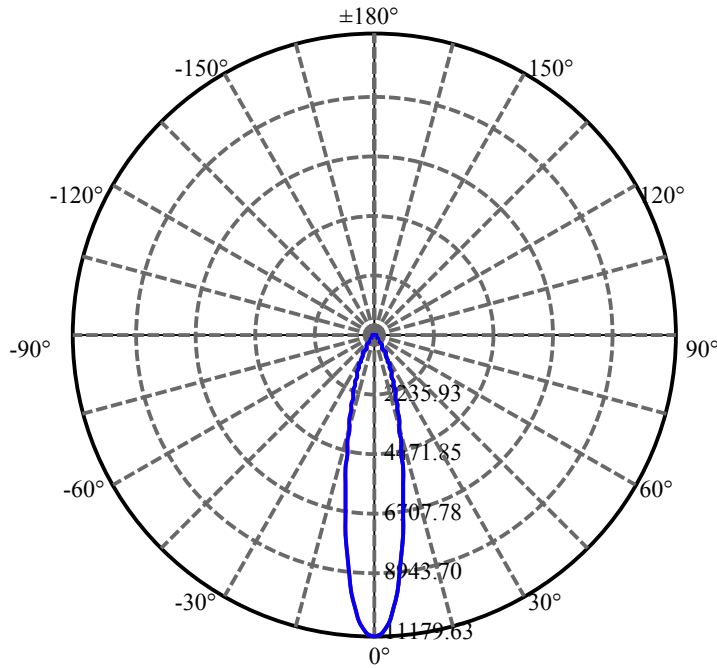
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	16.461	1.769	2868.242	0.06%	99.27%
77.0	16.073	1.735	2869.977	0.06%	99.33%
78.0	15.658	1.699	2871.675	0.06%	99.39%
79.0	15.298	1.663	2873.339	0.05%	99.45%
80.0	14.883	1.627	2874.966	0.05%	99.50%
81.0	14.503	1.589	2876.555	0.05%	99.56%
82.0	14.094	1.551	2878.106	0.05%	99.61%
83.0	13.693	1.511	2879.616	0.05%	99.67%
84.0	13.354	1.473	2881.09	0.05%	99.72%
85.0	13.022	1.440	2882.529	0.05%	99.77%
86.0	12.752	1.409	2883.938	0.05%	99.81%
87.0	12.468	1.380	2885.318	0.05%	99.86%
88.0	12.164	1.349	2886.668	0.04%	99.91%
89.0	11.929	1.321	2887.988	0.04%	99.95%
90.0	11.804	1.301	2889.289	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2495.51	81.88%	86.37%
0-40	2750.67	90.25%	95.20%
0-60	2830.41	92.87%	97.96%
0-90	2887.99	94.76%	99.95%
0-120	2887.99	94.76%	99.95%
0-180	2889.29	94.80%	100.00%
60-90	57.58	1.89%	1.99%
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%
0-26.74	2311.43	75.84%	80.00%

ZONAL LUMEN SUMMARY

0-10	799.53
10-20	1027.28
20-30	668.70
30-40	255.16
40-50	45.06
50-60	34.68
60-70	26.64
70-80	17.91
80-90	13.02
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

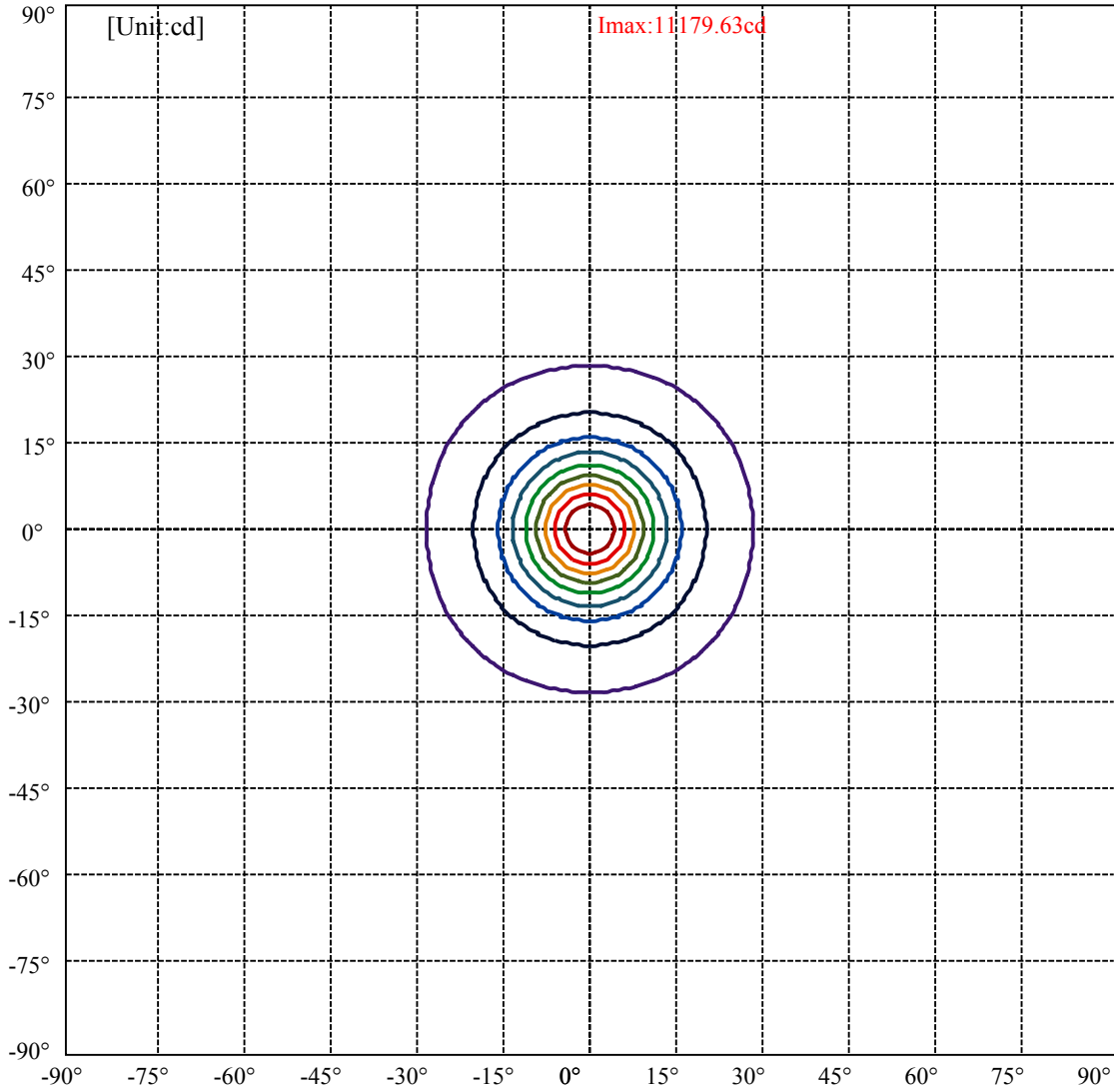


C0(Max): —————  
C0/C180: —————  
C90/C270: —————

Field angle(10%Imax):C0/180Left:28.1 Right:28.1  
:C90/270Left:28.1 Right:28.1

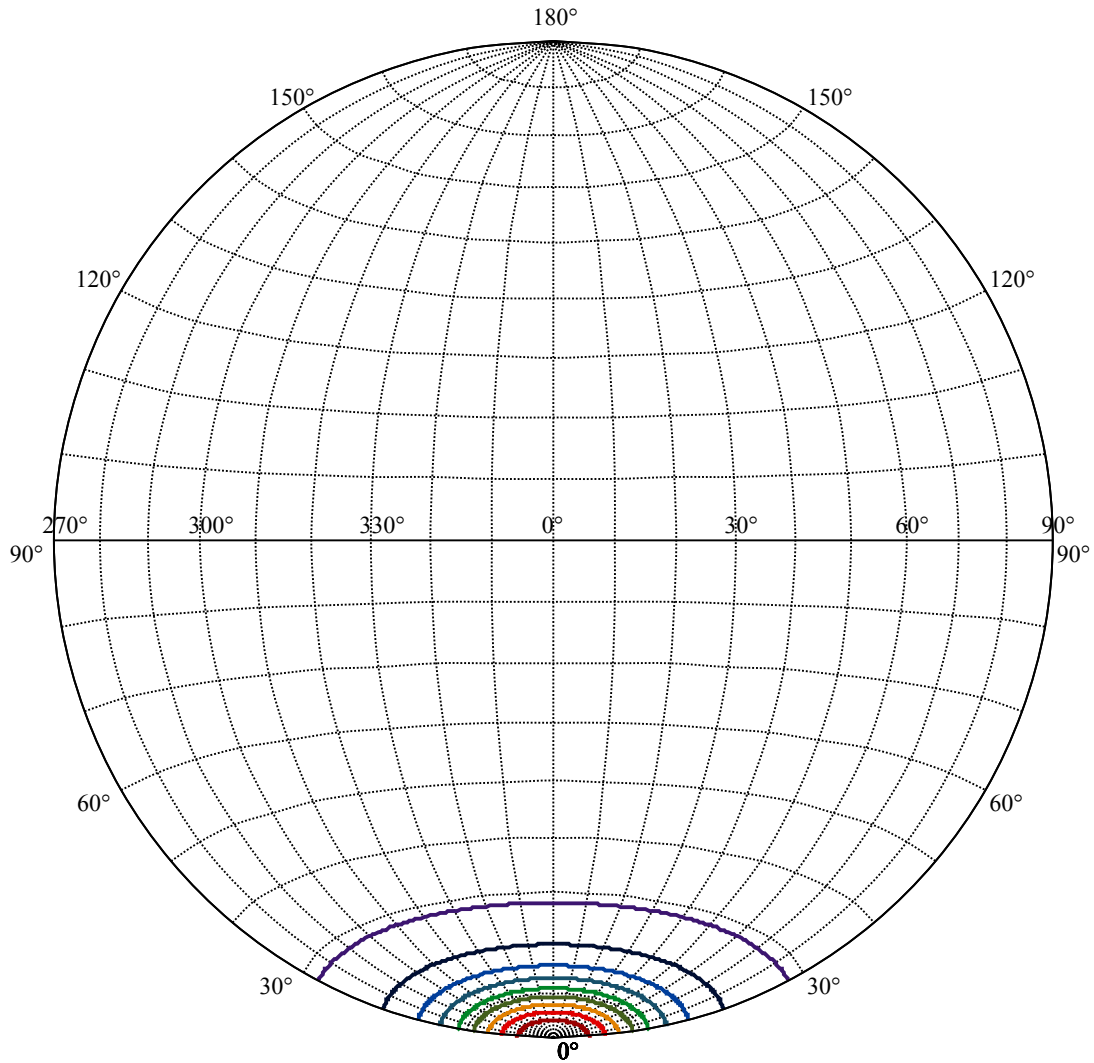
Beam Angle(50%Imax):C0/180Left:11.0 Right:11.0  
:C90/270Left:11.0 Right:11.0





(10%Imax) 1117.96	—
(20%Imax) 2235.93	—
(30%Imax) 3353.89	—
(40%Imax) 4471.85	—
(50%Imax) 5589.81	—
(60%Imax) 6707.78	—
(70%Imax) 7825.74	—
(80%Imax) 8943.7	—
(90%Imax) 10061.7	—





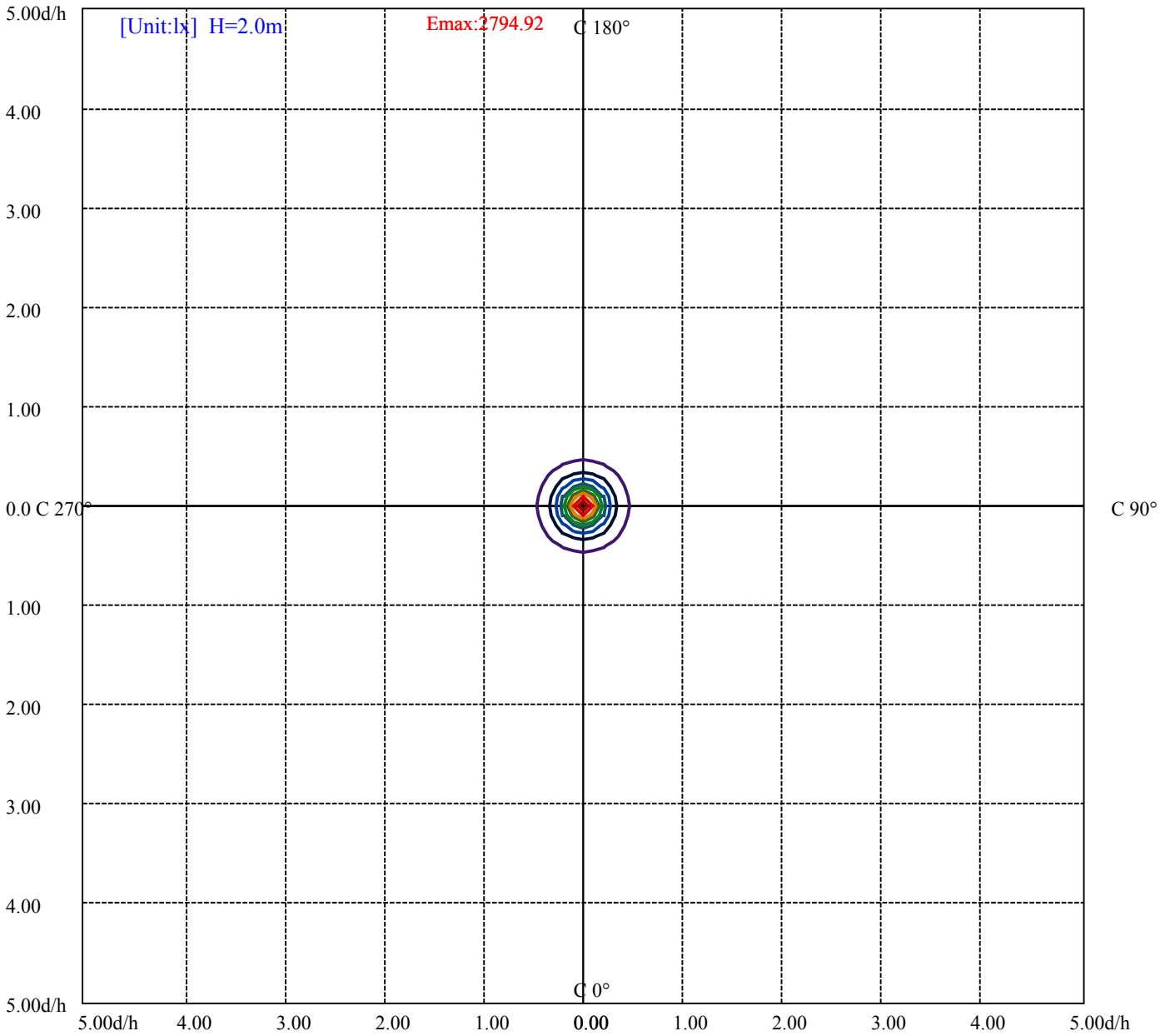
House

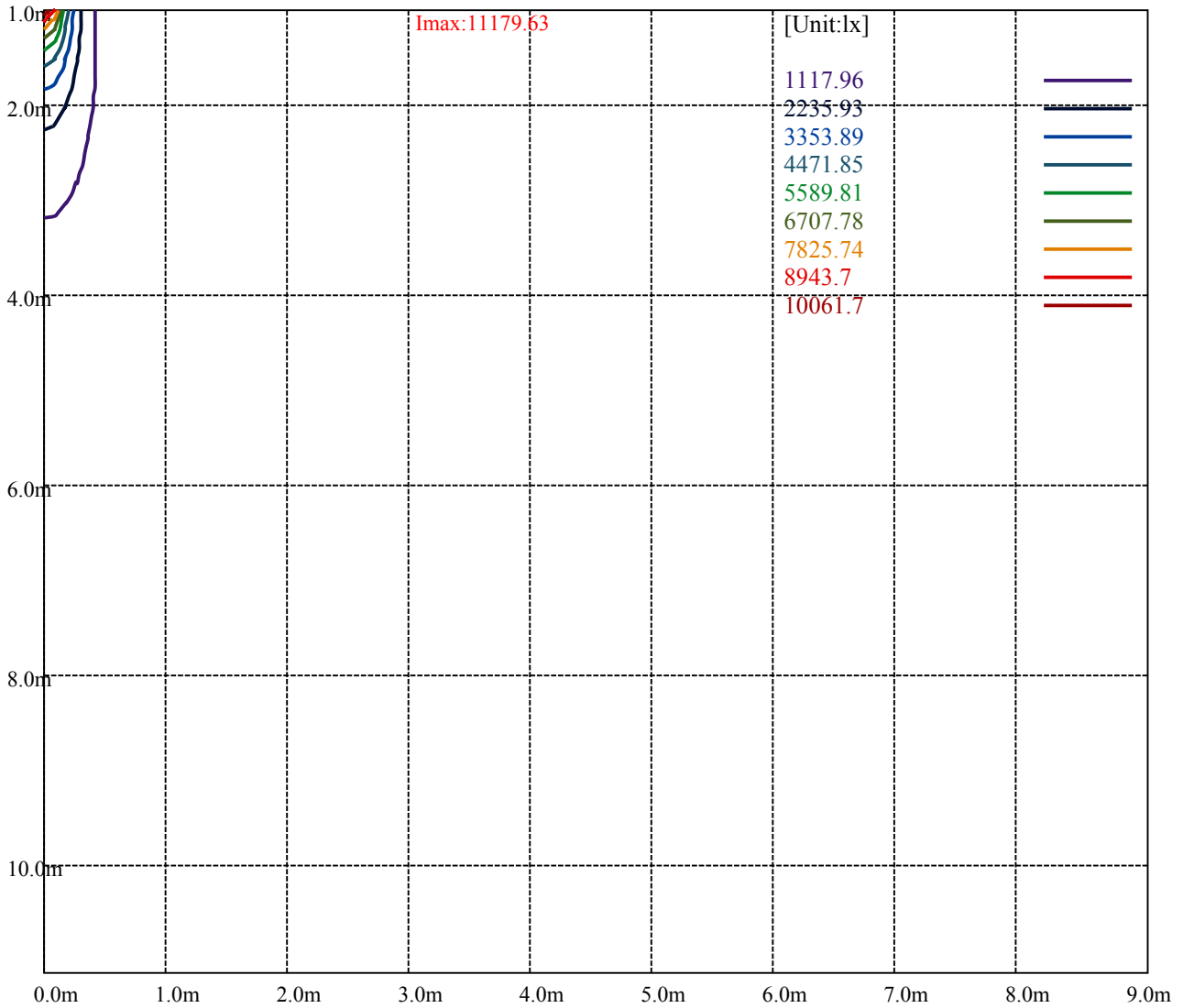
[Unit:cd]

Road

**Imax:11179.63**

(10%Imax)	1117.96	—
(20%Imax)	2235.93	—
(30%Imax)	3353.89	—
(40%Imax)	4471.85	—
(50%Imax)	5589.81	—
(60%Imax)	6707.78	—
(70%Imax)	7825.74	—
(80%Imax)	8943.7	—
(90%Imax)	10061.7	—





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

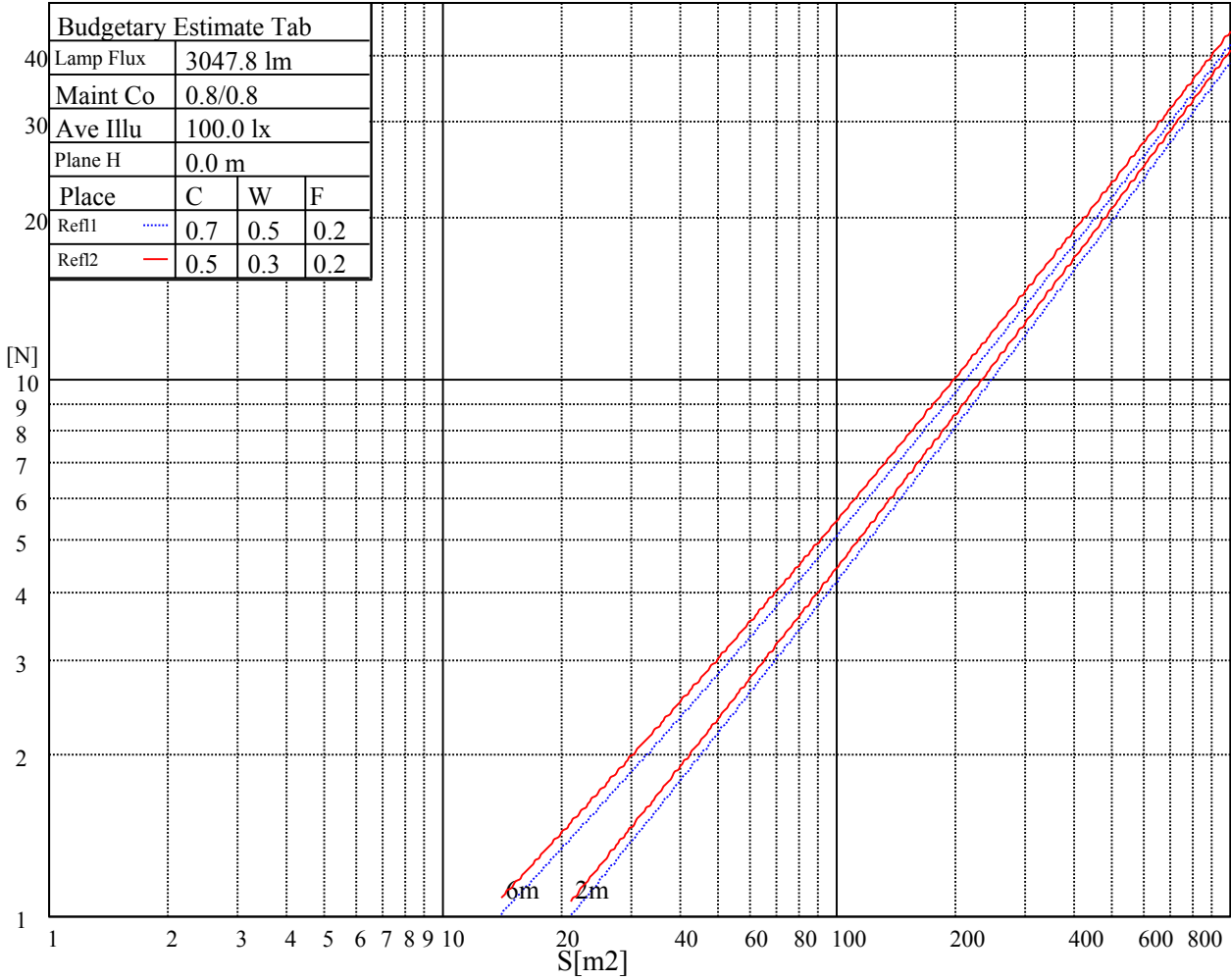
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

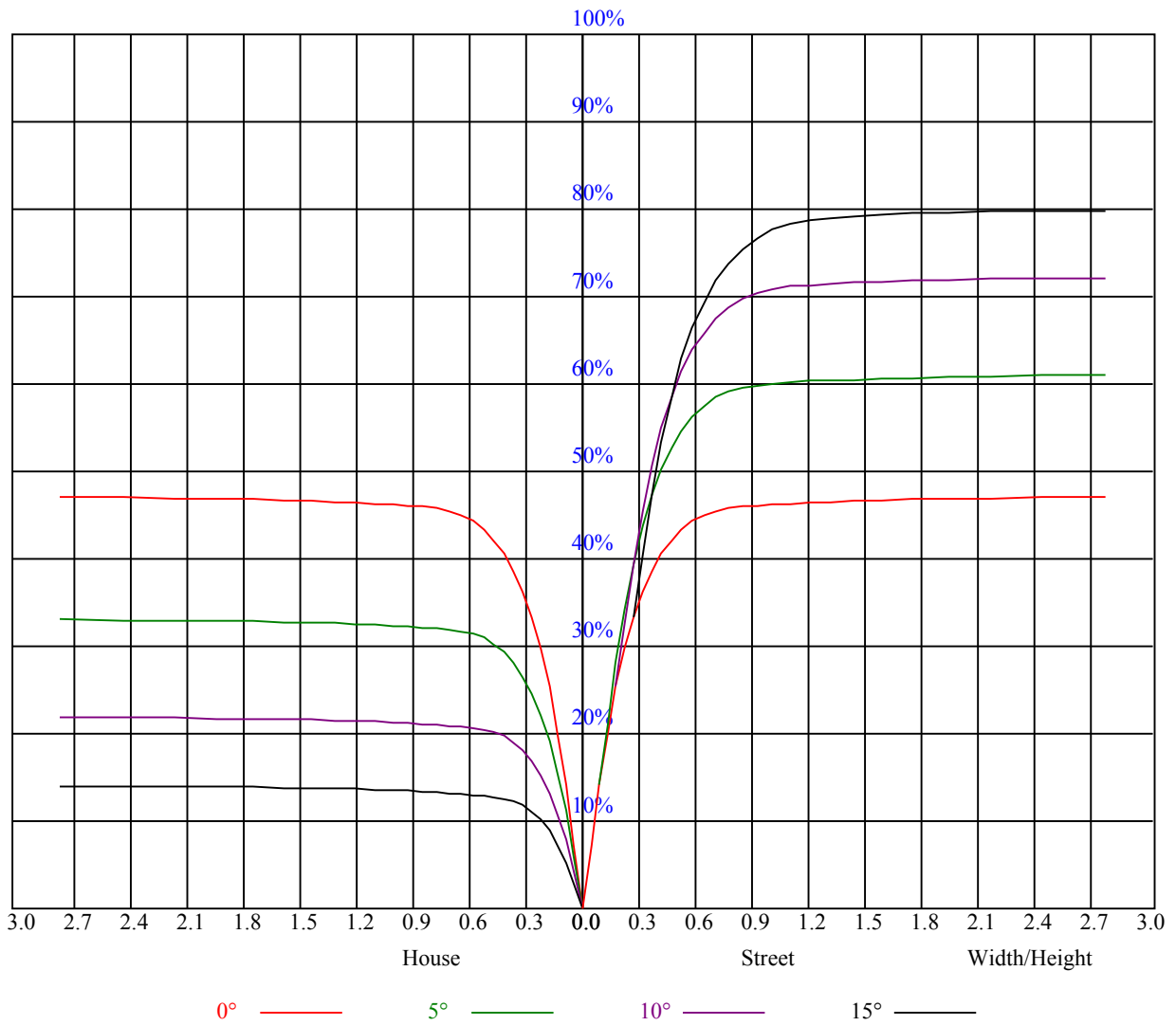


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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	1.13	1.13	1.13	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	0.97	0.97	0.97	0.95
1	1.06	1.04	1.02	1.04	1.02	1.00	1.00	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.92	0.90
2	1.00	0.96	0.94	0.98	0.95	0.93	0.95	0.93	0.91	0.92	0.90	0.89	0.90	0.88	0.87	0.85
3	0.95	0.91	0.87	0.93	0.90	0.87	0.91	0.88	0.85	0.89	0.86	0.84	0.87	0.85	0.83	0.81
4	0.90	0.86	0.82	0.89	0.85	0.82	0.87	0.84	0.81	0.85	0.82	0.80	0.84	0.81	0.79	0.78
5	0.86	0.81	0.78	0.85	0.81	0.78	0.83	0.80	0.77	0.82	0.79	0.76	0.81	0.78	0.76	0.74
6	0.82	0.78	0.74	0.81	0.77	0.74	0.80	0.76	0.73	0.79	0.76	0.73	0.78	0.75	0.73	0.71
7	0.79	0.74	0.71	0.78	0.74	0.71	0.77	0.73	0.70	0.76	0.73	0.70	0.75	0.72	0.70	0.69
8	0.76	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.67	0.73	0.69	0.67	0.66
9	0.73	0.68	0.65	0.73	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.65	0.64
10	0.70	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.69	0.65	0.63	0.68	0.65	0.63	0.62





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	11028.10	10813.88	10409.24	9888.37	9105.11	8460.24	7799.88	7122.90	6335.77
45.0	11314.28	11236.78	10993.22	10666.64	10185.06	9443.32	8806.76	8136.98	7273.46
90.0	11006.51	11006.51	10867.57	10322.89	9735.59	9094.04	8275.36	7589.53	6892.08
135.0	11369.63	11308.74	11209.10	10954.48	10456.30	9908.29	9260.66	8657.30	7832.53
180.0	11028.10	11028.10	11347.49	11159.29	10926.80	10450.76	9919.37	9338.15	8712.66
225.0	11314.28	11029.20	11029.20	10725.31	10283.04	9745.00	8994.96	8361.16	7679.20
270.0	11006.51	11325.35	11198.03	10993.22	10561.47	10085.43	9537.43	8928.54	8125.91
315.0	11369.63	11005.96	10930.68	10557.04	9921.58	9347.56	8724.28	7922.21	7229.73
360.0	11028.10	10813.88	10409.24	9888.37	9105.11	8460.24	7799.88	7122.90	6335.77

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5756.77	5233.13	4753.77	4185.29	3772.90	3394.84	2960.31	2658.08	2348.10
45.0	6636.90	6033.54	5374.83	4898.79	4444.89	4007.60	3609.05	3149.62	2828.57
90.0	6274.33	5569.68	5054.34	4586.05	4148.75	3653.34	3295.75	2974.15	2622.65
135.0	7173.83	6531.72	5806.59	5291.80	4688.45	4234.55	3824.93	3437.46	3033.38
180.0	7921.10	7251.32	6614.76	5994.79	5446.79	4826.83	4367.40	3824.93	3454.06
225.0	7022.71	6240.56	5656.03	5143.46	4656.90	4129.38	3726.40	3279.70	2970.83
270.0	7450.59	6797.42	6171.93	5463.40	4959.68	4500.25	3985.46	3575.84	3138.55
315.0	6575.45	5821.54	5286.27	4788.64	4246.73	3824.38	3446.32	3103.12	2735.02
360.0	5756.77	5233.13	4753.77	4185.29	3772.90	3394.84	2960.31	2658.08	2348.10

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2147.17	1975.02	1825.56	1670.57	1563.74	1468.53	1378.86	1081.66	1081.66
45.0	2828.57	2251.23	2063.03	1864.31	1728.14	1614.11	1486.80	1393.80	1291.95
90.0	2382.97	2184.25	1975.57	1827.78	1672.79	1565.40	1467.42	1374.98	1091.57
135.0	2817.50	2817.50	2297.17	2079.63	1937.38	1800.65	1684.96	1554.33	1459.67
180.0	3133.01	2850.71	2850.71	2322.08	2143.29	1946.23	1807.85	1695.48	1561.53
225.0	2702.92	2404.01	2209.72	2050.30	1905.82	1748.07	1640.68	1543.26	1451.92
270.0	2856.25	2856.25	2569.51	2133.33	1976.12	1836.08	1679.98	1582.56	1475.17
315.0	2482.61	2262.30	2082.40	1889.22	1756.37	1618.54	1521.12	1428.68	1230.51
360.0	2147.17	1975.02	1825.56	1670.57	1563.74	1468.53	1378.86	1081.66	1081.66

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1025.92	919.76	786.85	683.17	585.25	467.02	380.72	301.79	216.38
45.0	1182.91	1041.20	933.82	828.09	722.92	596.71	502.06	416.26	317.18
90.0	1091.57	1008.54	896.62	766.15	661.64	562.28	469.40	357.20	280.64
135.0	1352.84	1211.14	1100.43	962.60	853.00	746.72	643.21	520.32	426.22
180.0	1467.98	1371.11	1259.29	1125.34	1012.42	902.82	793.22	664.24	562.39
225.0	1247.12	1100.26	1100.26	956.73	844.09	736.76	605.79	504.94	411.83
270.0	1384.39	1256.53	1140.28	1032.90	893.41	779.38	669.78	546.89	452.79
315.0	1079.67	1079.67	967.97	832.91	721.31	622.45	525.03	412.33	329.91
360.0	1025.92	919.76	786.85	683.17	585.25	467.02	380.72	301.79	216.38

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	159.14	116.35	88.95	79.99	72.24	64.65	59.39	54.80	51.04
45.0	281.75	281.75	121.67	96.26	85.36	74.28	67.59	61.94	57.12
90.0	198.11	145.64	107.83	87.35	78.10	69.75	64.10	57.68	53.14
135.0	338.76	298.91	298.91	127.37	101.24	86.19	76.66	69.58	63.55
180.0	466.63	355.92	294.48	294.48	131.24	98.92	85.74	73.84	67.14
225.0	306.88	234.42	173.81	116.41	93.66	83.42	74.56	66.54	60.78
270.0	365.33	286.18	286.18	145.86	108.55	90.00	80.37	72.68	66.20
315.0	257.45	196.34	134.51	103.95	88.84	79.82	72.40	64.38	59.01
360.0	159.14	116.35	88.95	79.99	72.24	64.65	59.39	54.80	51.04

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	47.27	44.95	42.95	41.29	39.52	38.42	37.42	36.98	36.87
45.0	52.09	48.88	46.28	44.23	42.01	40.46	39.25	38.14	37.59
90.0	49.49	46.55	43.90	42.01	40.41	38.80	37.75	37.14	36.64
135.0	57.24	53.08	49.10	46.50	44.23	41.96	40.57	39.41	38.53
180.0	61.50	56.68	51.70	48.60	46.22	43.78	42.23	40.85	39.63
225.0	56.29	52.59	48.88	46.61	44.23	42.62	41.29	39.97	39.19
270.0	59.34	55.35	51.64	48.88	45.89	43.95	41.96	40.52	39.41
315.0	54.74	51.09	47.55	45.22	43.12	41.46	39.63	38.53	37.70
360.0	47.27	44.95	42.95	41.29	39.52	38.42	37.42	36.98	36.87
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	36.98	37.31	37.92	38.30	38.14	37.09	35.43	33.05	29.23
45.0	37.25	37.42	37.75	38.30	38.75	38.86	38.30	36.37	33.93
90.0	36.59	36.87	37.59	38.08	38.42	38.19	36.87	34.82	31.88
135.0	37.92	37.75	38.08	38.58	39.08	39.41	39.25	37.97	35.76
180.0	38.86	38.42	38.36	38.80	39.36	39.91	40.08	39.85	38.91
225.0	38.86	38.86	39.08	39.63	40.02	40.08	39.36	37.92	35.59
270.0	38.53	38.08	38.19	38.42	38.91	39.36	39.47	38.91	36.87
315.0	37.14	36.98	37.25	37.75	37.97	38.08	37.14	35.59	32.99
360.0	36.98	37.31	37.92	38.30	38.14	37.09	35.43	33.05	29.23
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	26.29	23.91	21.98	21.03	20.20	19.60	19.04	18.54	17.99
45.0	30.67	27.73	25.02	22.81	21.48	20.59	19.93	19.32	18.71
90.0	28.95	25.08	23.19	21.64	20.59	19.93	19.15	18.65	18.16
135.0	32.77	28.78	25.79	23.58	21.75	20.92	20.20	19.54	18.82
180.0	36.26	33.10	29.72	26.63	23.80	22.36	21.26	20.54	19.87
225.0	31.50	28.29	24.74	23.03	21.75	20.92	20.04	19.48	18.93
270.0	34.21	30.83	26.90	24.41	22.69	21.31	20.54	19.71	19.21
315.0	29.28	26.18	23.75	22.14	20.87	20.09	19.48	18.99	18.38
360.0	26.29	23.91	21.98	21.03	20.20	19.60	19.04	18.54	17.99
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	17.55	17.10	16.72	16.27	16.00	15.61	15.17	14.78	14.39
45.0	18.16	17.71	17.21	16.83	16.44	16.05	15.61	15.28	14.89
90.0	17.66	17.27	16.83	16.55	16.11	15.72	15.33	15.00	14.56
135.0	18.32	17.88	17.44	16.94	16.61	16.22	15.78	15.44	15.00
180.0	19.15	18.65	18.16	17.66	17.10	16.72	16.33	15.94	15.50
225.0	18.43	17.88	17.38	16.94	16.55	16.11	15.78	15.39	14.95
270.0	18.65	18.16	17.60	17.16	16.77	16.38	15.89	15.55	15.17
315.0	17.88	17.38	16.94	16.55	16.11	15.78	15.39	15.00	14.61
360.0	17.55	17.10	16.72	16.27	16.00	15.61	15.17	14.78	14.39
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	13.89	13.56	13.23	12.95	12.62	12.34	12.07	11.79	11.79
45.0	14.50	14.06	13.62	13.28	12.95	12.73	12.45	12.07	11.85
90.0	14.17	13.67	13.40	13.12	12.79	12.57	12.29	12.01	11.79
135.0	14.67	14.34	13.78	13.51	13.12	12.84	12.57	12.23	11.96
180.0	15.11	14.67	14.28	13.84	13.51	13.17	12.84	12.51	12.29
225.0	14.61	14.17	13.78	13.40	13.06	12.84	12.57	12.29	11.96
270.0	14.78	14.45	13.89	13.56	13.17	12.90	12.62	12.29	12.01
315.0	14.28	13.84	13.56	13.17	12.95	12.62	12.34	12.12	11.79
360.0	13.89	13.56	13.23	12.95	12.62	12.34	12.07	11.79	11.79

Intensity data(cd)

C/γ(°)	90.0
0.0	11.79
45.0	11.85
90.0	11.79
135.0	11.79
180.0	11.96
225.0	11.79
270.0	11.73
315.0	11.73
360.0	11.79