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## Nata

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LumCAT: 1-0918-M	
Luminaire: 92.70.124.00	
Report No: NATA0100	Voltage(V): 34.6200
Test No: GC2019092407	Current(A): 0.2470
LampCAT: TRIDONIC SLE G7 9MM	Power (W): 8.5500
Lamp flux(lm): 1288.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

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## Photometric Results

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Lumens(lm): 985.81  
Efficiency(%): 76.54%  
Lumens(lm)/Power(W): 115.30  
Central intensity(cd): 6840.282  
Maximum intensity(cd): 6840.282  
Angle of maximum intensity: C=0.0  $\gamma$ =0.0  
Beam Angle(50%Imax): [C0/180]Total=18.8  
                                  [C90/270]Total=18.8  
Field angle(10%Imax): [C0/180]Total=39.2  
                                  [C90/270]Total=39.2  
Maximum s/h(1/2): C0\_180=0.32 C90\_270=0.32  
Maximum s/h(1/4): C0\_180=0.34 C90\_270=0.34  
Up flux rate of lamp(%): 0.00%  
Down flux rate of lamp(%): 76.54%  
Up flux rate of LUM(%): - -  
Down flux rate of LUM(%): 100.00%  
CIE Type : Direct lighting  
Output flux ratio in  $\pi$  solid angle : 98.509%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	6840.281	0.000	0	.000%	.000%
1.0	6789.797	6.522	6.522	.506%	.662%
2.0	6629.344	19.260	25.782	1.495%	2.615%
3.0	6378.258	31.110	56.892	2.415%	5.771%
4.0	6049.336	41.599	98.491	3.230%	9.991%
5.0	5594.203	50.090	148.581	3.889%	15.072%
6.0	5125.922	56.337	204.918	4.374%	20.787%
7.0	4637.672	60.602	265.521	4.705%	26.934%
8.0	4089.586	62.459	327.98	4.849%	33.270%
9.0	3602.602	62.341	390.321	4.840%	39.594%
10.0	3149.648	61.105	451.426	4.744%	45.792%
11.0	2715.750	58.607	510.034	4.550%	51.737%
12.0	2369.742	55.592	565.625	4.316%	57.377%
13.0	2041.242	52.347	617.973	4.064%	62.687%
14.0	1734.328	48.327	666.3	3.752%	67.589%
15.0	1489.788	44.262	710.562	3.436%	72.079%
16.0	1300.493	40.885	751.447	3.174%	76.226%
17.0	1073.257	36.966	788.413	2.870%	79.976%
18.0	921.825	32.895	821.307	2.554%	83.313%
19.0	777.656	29.567	850.875	2.296%	86.312%
20.0	624.621	25.666	876.541	1.993%	88.916%
21.0	489.361	21.391	897.931	1.661%	91.085%
22.0	378.267	17.435	915.367	1.354%	92.854%
23.0	276.075	13.730	929.096	1.066%	94.247%
24.0	171.527	9.786	938.883	.760%	95.240%
25.0	109.997	6.401	945.284	.497%	95.889%
26.0	58.985	3.989	949.273	.310%	96.294%
27.0	31.992	2.226	951.499	.173%	96.519%
28.0	21.143	1.345	952.844	.104%	96.656%
29.0	16.875	0.995	953.838	.077%	96.757%
30.0	14.955	0.859	954.698	.067%	96.844%
31.0	13.655	0.796	955.494	.062%	96.925%
32.0	12.502	0.749	956.243	.058%	97.001%
33.0	11.552	0.709	956.952	.055%	97.073%
34.0	10.772	0.676	957.628	.052%	97.141%
35.0	10.041	0.646	958.274	.050%	97.207%
36.0	9.401	0.619	958.893	.048%	97.269%
37.0	8.944	0.598	959.491	.046%	97.330%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	8.466	0.581	960.072	.045%	97.389%
39.0	8.051	0.564	960.636	.044%	97.446%
40.0	7.727	0.550	961.186	.043%	97.502%
41.0	7.446	0.540	961.727	.042%	97.557%
42.0	7.137	0.530	962.257	.041%	97.611%
43.0	6.919	0.521	962.777	.040%	97.663%
44.0	6.722	0.515	963.292	.040%	97.716%
45.0	6.504	0.508	963.8	.039%	97.767%
46.0	6.356	0.503	964.303	.039%	97.818%
47.0	6.195	0.499	964.802	.039%	97.869%
48.0	6.054	0.495	965.298	.038%	97.919%
49.0	5.934	0.492	965.79	.038%	97.969%
50.0	5.815	0.490	966.28	.038%	98.019%
51.0	5.702	0.487	966.767	.038%	98.068%
52.0	5.611	0.485	967.253	.038%	98.117%
53.0	5.541	0.485	967.738	.038%	98.167%
54.0	5.435	0.484	968.221	.038%	98.216%
55.0	5.379	0.483	968.704	.037%	98.265%
56.0	5.309	0.483	969.187	.037%	98.314%
57.0	5.245	0.483	969.67	.037%	98.363%
58.0	5.175	0.482	970.151	.037%	98.411%
59.0	5.126	0.482	970.633	.037%	98.460%
60.0	5.077	0.482	971.115	.037%	98.509%
61.0	5.027	0.482	971.597	.037%	98.558%
62.0	4.985	0.482	972.08	.037%	98.607%
63.0	4.929	0.482	972.562	.037%	98.656%
64.0	4.908	0.483	973.045	.037%	98.705%
65.0	4.873	0.484	973.529	.038%	98.754%
66.0	4.838	0.484	974.013	.038%	98.803%
67.0	4.823	0.486	974.499	.038%	98.852%
68.0	4.774	0.486	974.985	.038%	98.902%
69.0	4.753	0.486	975.471	.038%	98.951%
70.0	4.732	0.487	975.958	.038%	99.000%
71.0	4.718	0.488	976.447	.038%	99.050%
72.0	4.683	0.489	976.935	.038%	99.100%
73.0	4.662	0.489	977.424	.038%	99.149%
74.0	4.648	0.489	977.913	.038%	99.199%
75.0	4.641	0.491	978.404	.038%	99.249%

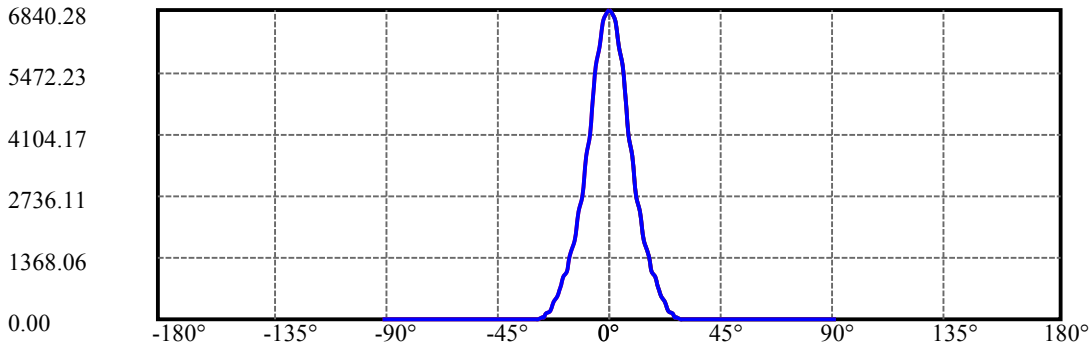
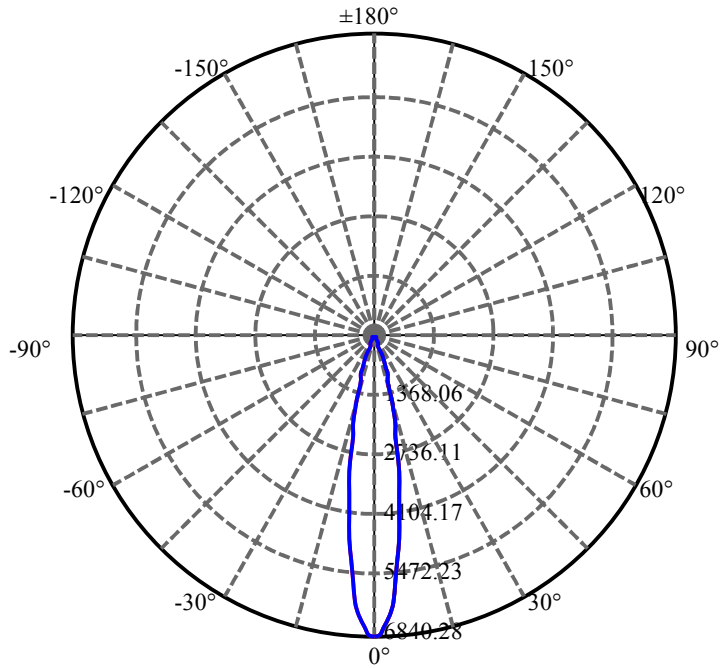
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	4.613	0.491	978.895	.038%	99.298%
77.0	4.605	0.491	979.387	.038%	99.348%
78.0	4.591	0.492	979.879	.038%	99.398%
79.0	4.577	0.493	980.372	.038%	99.448%
80.0	4.563	0.493	980.865	.038%	99.498%
81.0	4.549	0.493	981.357	.038%	99.548%
82.0	4.556	0.494	981.851	.038%	99.598%
83.0	4.549	0.495	982.346	.038%	99.648%
84.0	4.556	0.496	982.842	.039%	99.699%
85.0	4.542	0.497	983.339	.039%	99.749%
86.0	4.514	0.495	983.834	.038%	99.799%
87.0	4.514	0.494	984.328	.038%	99.850%
88.0	4.514	0.495	984.822	.038%	99.900%
89.0	4.514	0.495	985.317	.038%	99.950%
90.0	4.500	0.494	985.812	.038%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	954.70	74.12%	96.84%
0-40	961.19	74.63%	97.50%
0-60	971.12	75.40%	98.51%
0-90	985.32	76.50%	99.95%
0-120	985.32	76.50%	99.95%
0-180	985.81	76.54%	100.00%
60-90	14.68	1.14%	1.49%
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%
0-17.01	788.65	61.23%	80.00%

ZONAL LUMEN SUMMARY

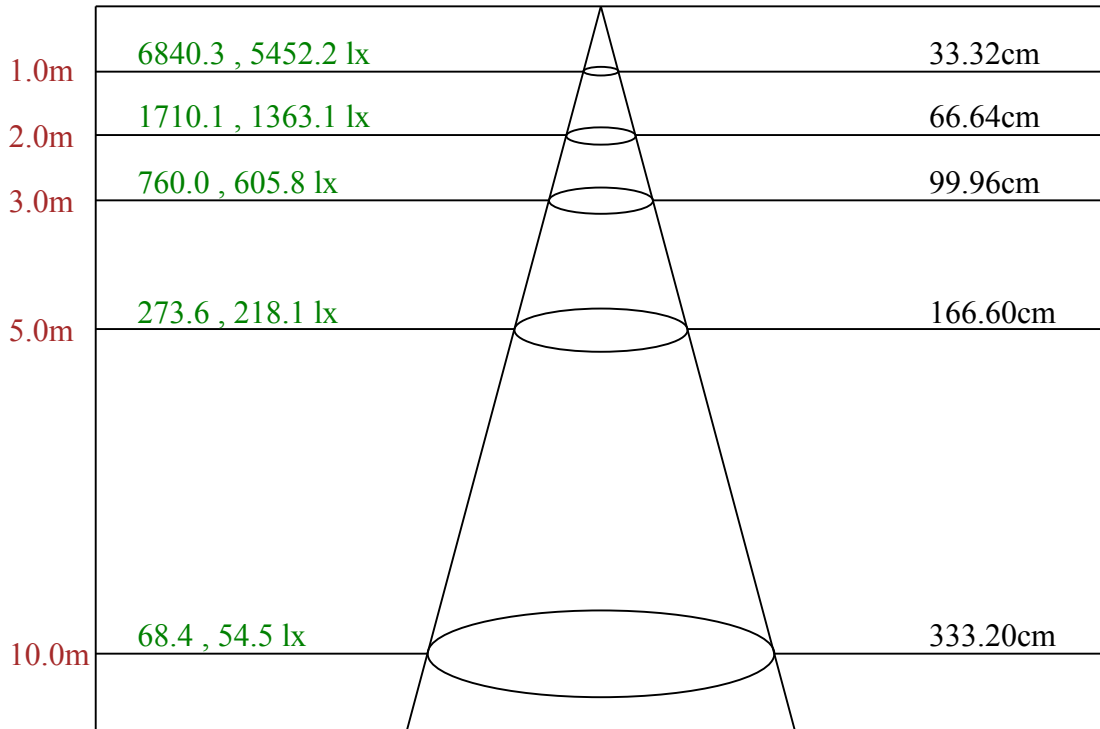
0-10	451.43
10-20	425.11
20-30	78.16
30-40	6.49
40-50	5.09
50-60	4.84
60-70	4.84
70-80	4.91
80-90	4.45
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



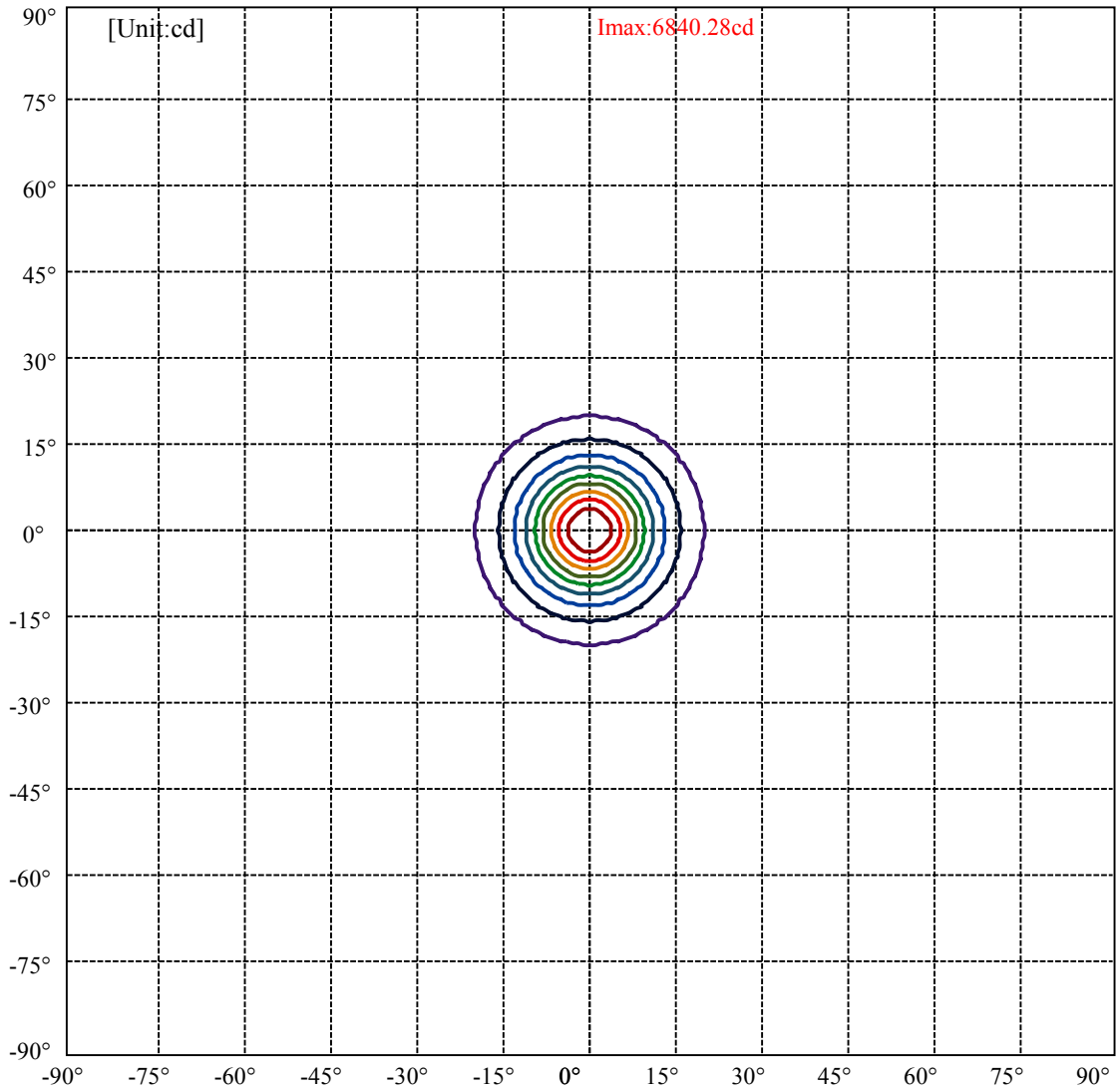
C0(Max): —————  
C0/C180: —————  
C90/C270: —————

Field angle(10%Imax):C0/180Left:19.6 Right:19.6  
:C90/270Left:19.6 Right:19.6

Beam Angle(50%Imax):C0/180Left:9.4 Right:9.4  
:C90/270Left:9.4 Right:9.4

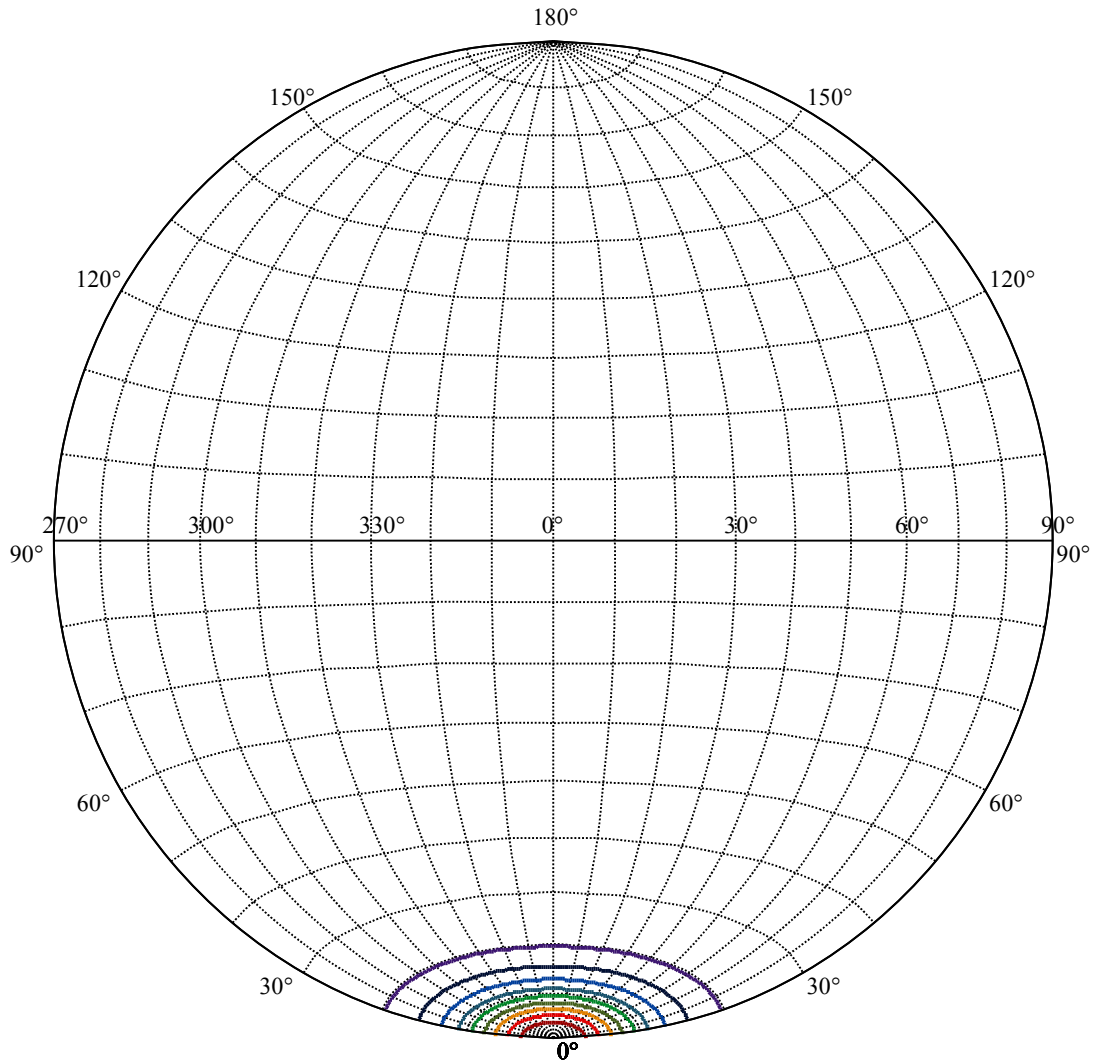


Max , Ave      Beam angle of C0 plane 18.92



(10%Imax) 684.028	—
(20%Imax) 1368.06	—
(30%Imax) 2052.08	—
(40%Imax) 2736.11	—
(50%Imax) 3420.14	—
(60%Imax) 4104.17	—
(70%Imax) 4788.2	—
(80%Imax) 5472.23	—
(90%Imax) 6156.25	—





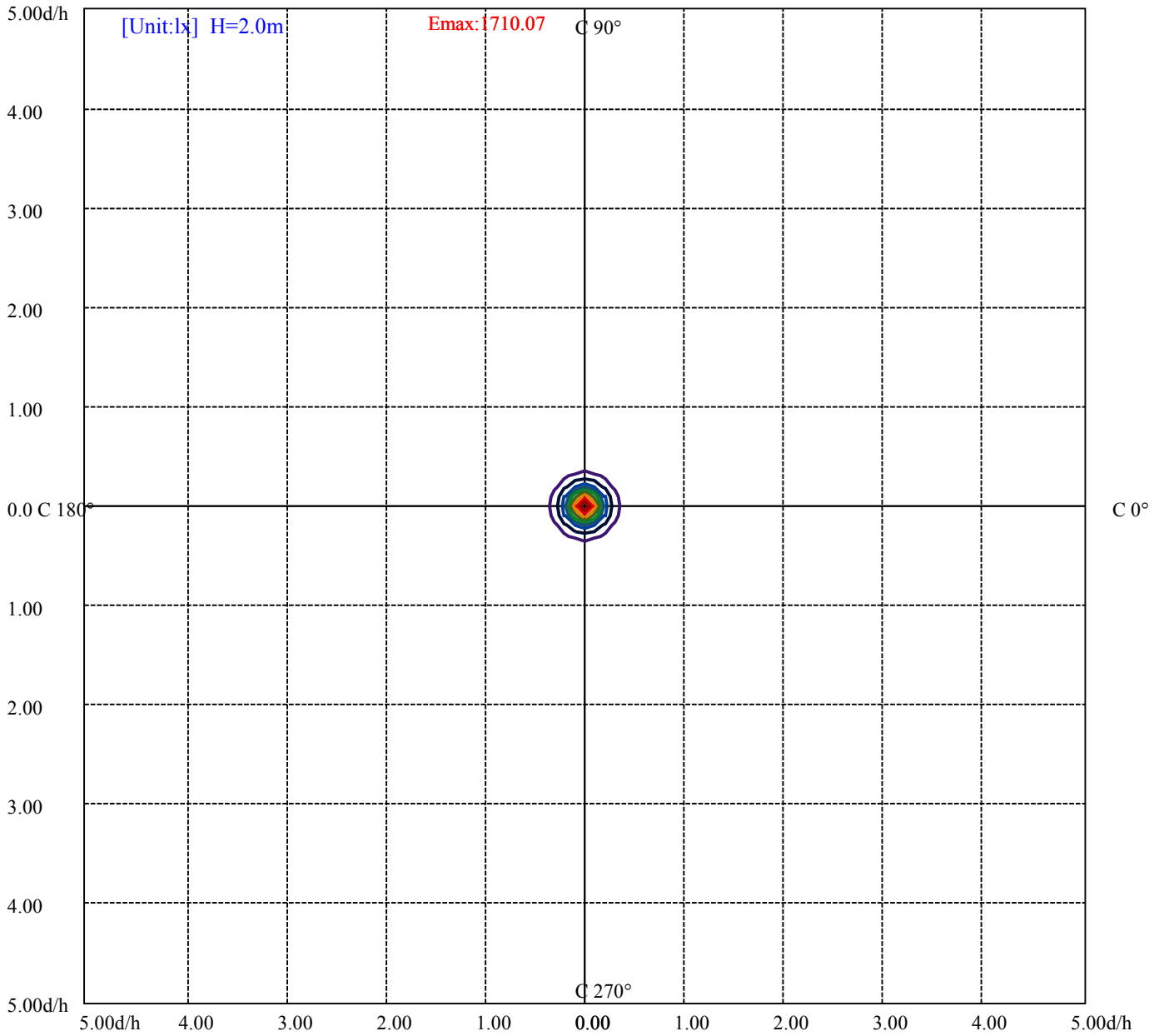
House

[Unit:cd]

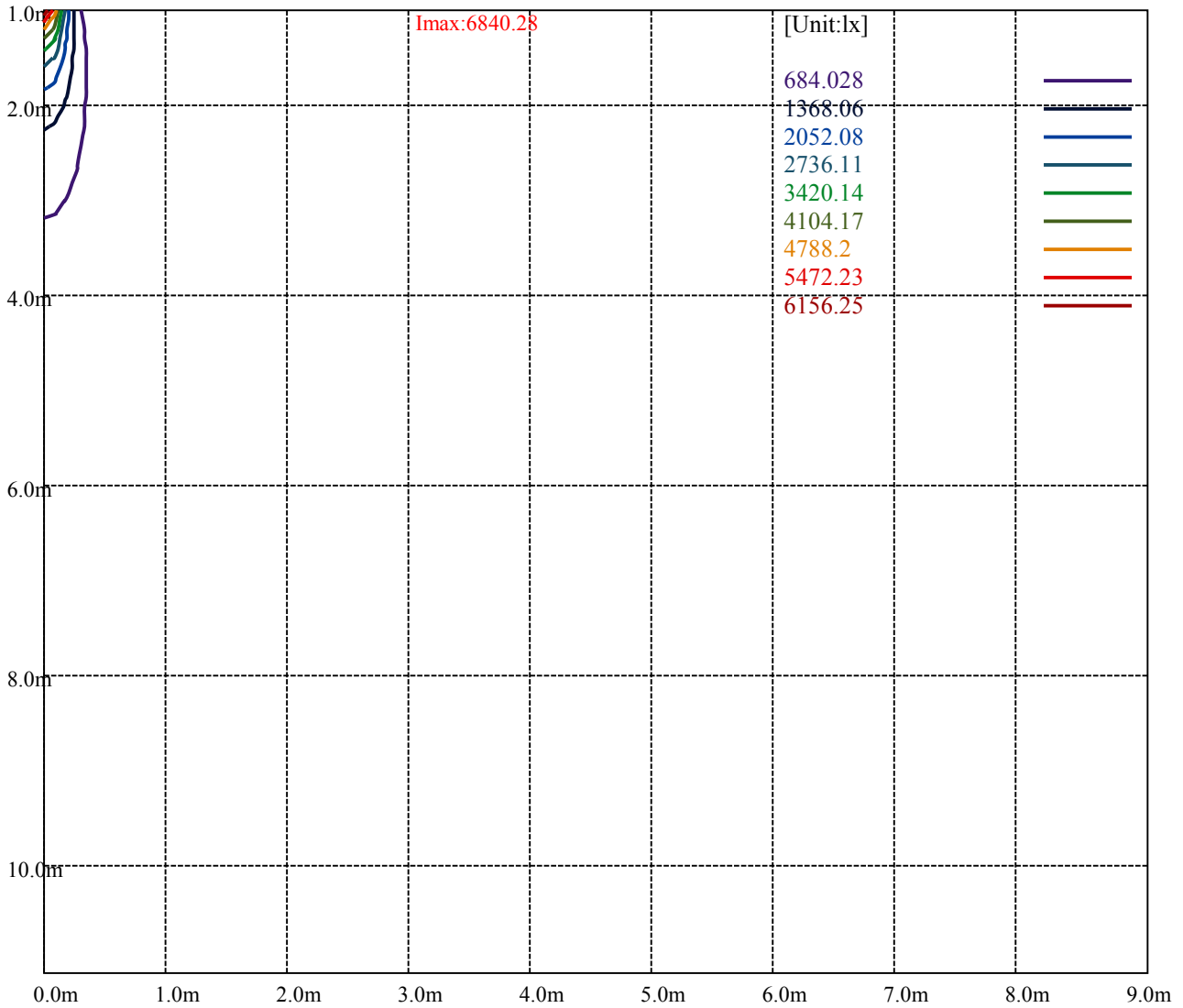
Road

Imax:6840.28

(10%Imax) 684.028	—
(20%Imax) 1368.06	—
(30%Imax) 2052.08	—
(40%Imax) 2736.11	—
(50%Imax) 3420.14	—
(60%Imax) 4104.17	—
(70%Imax) 4788.2	—
(80%Imax) 5472.23	—
(90%Imax) 6156.25	—



(10%Emax) 171.0067	—
(20%Emax) 342.0125	—
(30%Emax) 513.02	—
(40%Emax) 684.0275	—
(50%Emax) 855.035	—
(60%Emax) 1026.04	—
(70%Emax) 1197.047	—
(80%Emax) 1368.055	—
(90%Emax) 1539.063	—



Luminance Table

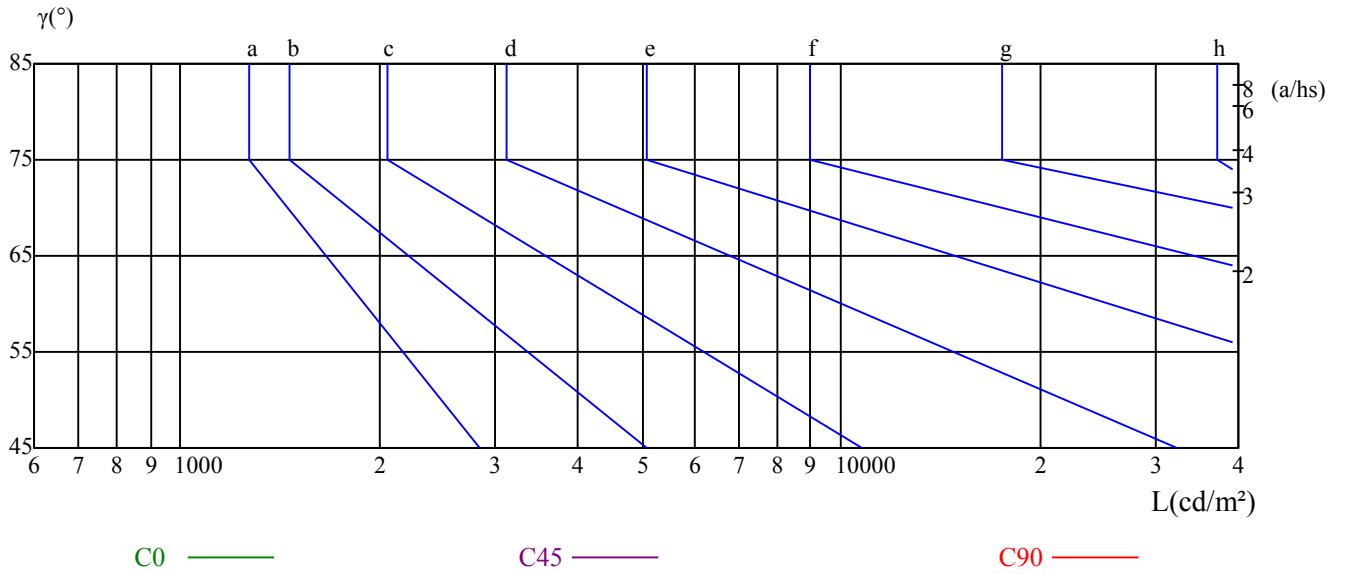
$\gamma$	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

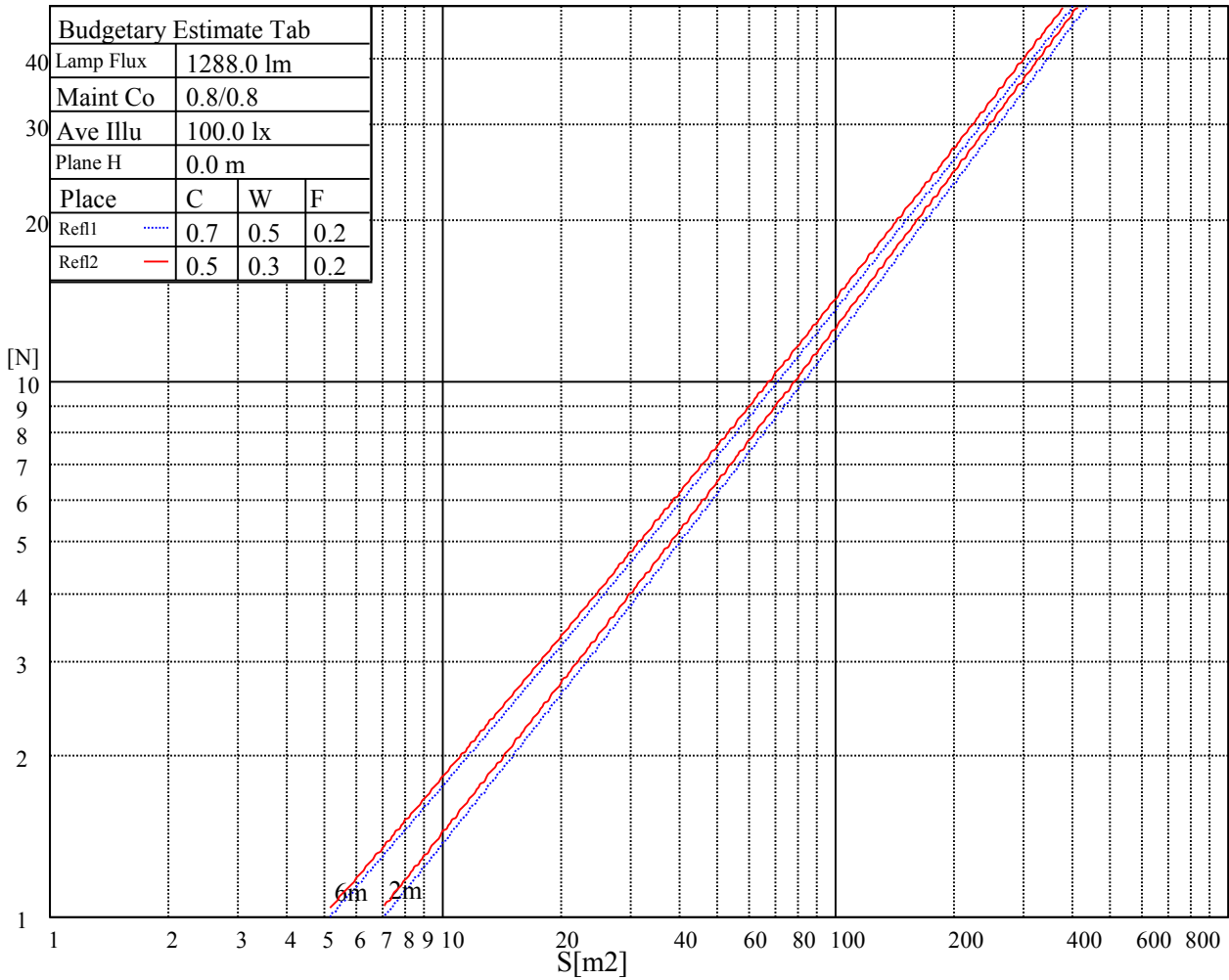
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

Glare Table

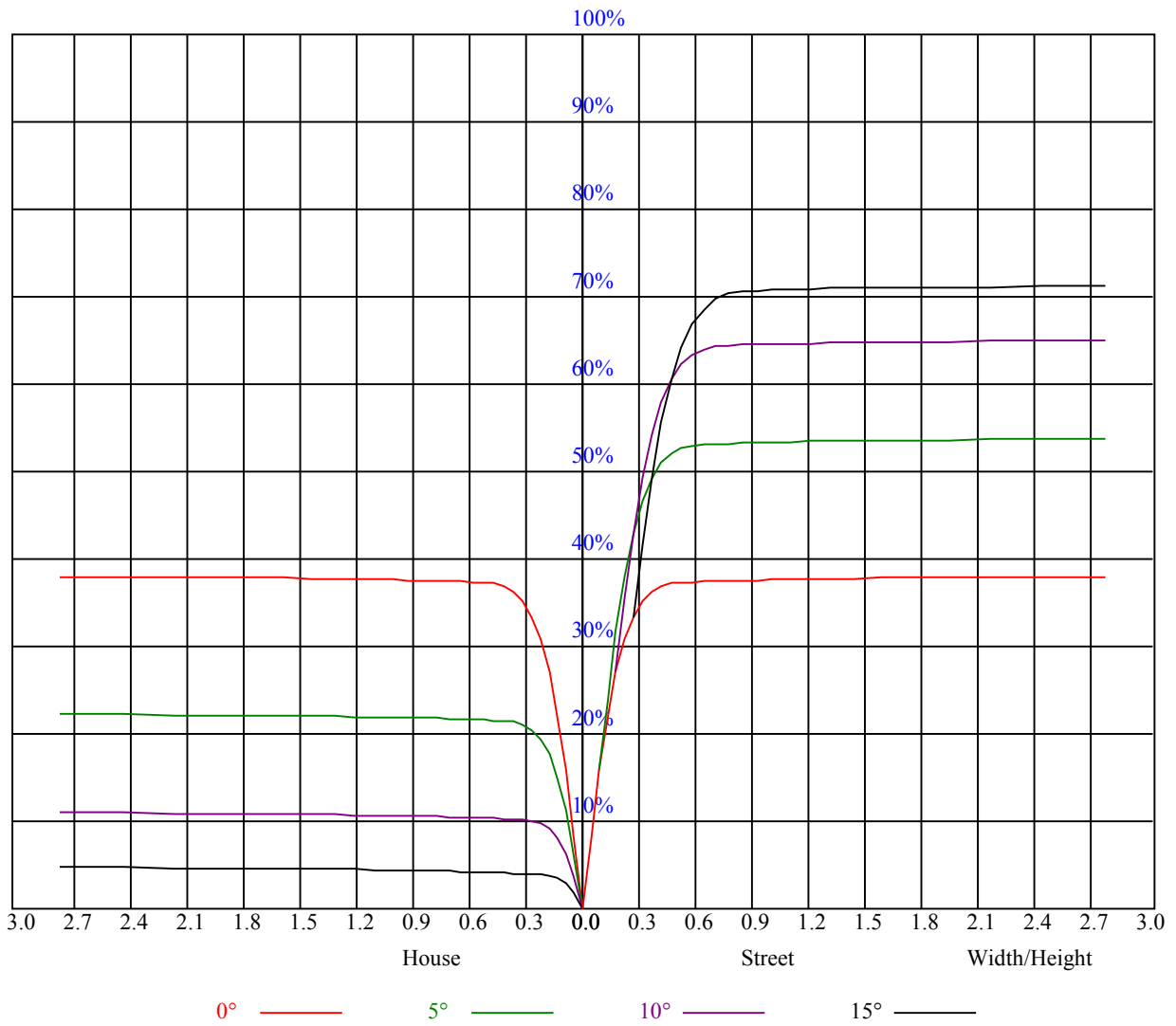
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve





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 RHOFC=20 CU															
0	0.91	0.91	0.91	0.89	0.89	0.89	0.85	0.85	0.85	0.81	0.81	0.81	0.78	0.78	0.78	0.77
1	0.86	0.85	0.84	0.85	0.84	0.82	0.82	0.81	0.80	0.79	0.78	0.78	0.76	0.76	0.75	0.74
2	0.83	0.81	0.79	0.81	0.80	0.78	0.79	0.78	0.76	0.77	0.76	0.75	0.75	0.74	0.73	0.72
3	0.80	0.77	0.75	0.79	0.76	0.74	0.77	0.75	0.73	0.75	0.73	0.72	0.73	0.72	0.71	0.70
4	0.77	0.74	0.72	0.76	0.74	0.72	0.75	0.73	0.71	0.73	0.71	0.70	0.72	0.71	0.69	0.68
5	0.75	0.72	0.70	0.74	0.71	0.69	0.73	0.71	0.69	0.72	0.70	0.68	0.71	0.69	0.68	0.67
6	0.73	0.70	0.68	0.72	0.69	0.67	0.71	0.69	0.67	0.70	0.68	0.67	0.69	0.68	0.66	0.65
7	0.71	0.68	0.66	0.70	0.68	0.66	0.69	0.67	0.65	0.69	0.67	0.65	0.68	0.66	0.65	0.64
8	0.69	0.66	0.64	0.69	0.66	0.64	0.68	0.66	0.64	0.67	0.65	0.64	0.67	0.65	0.63	0.63
9	0.67	0.65	0.63	0.67	0.64	0.63	0.67	0.64	0.62	0.66	0.64	0.62	0.65	0.64	0.62	0.61
10	0.66	0.63	0.61	0.66	0.63	0.61	0.65	0.63	0.61	0.65	0.63	0.61	0.64	0.62	0.61	0.60



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	6860.81	6682.50	6381.00	6013.13	5559.75	5105.81	4594.50	4131.56	3639.94
45.0	6885.00	6779.25	6531.75	6234.75	5869.13	5356.13	4905.56	4412.25	3891.94
90.0	6828.19	6778.13	6589.69	6342.19	5996.81	5471.44	5011.31	4525.31	3919.50
135.0	6787.13	6861.38	6860.81	6756.19	6594.75	6171.19	5770.13	5366.25	4737.38
180.0	6860.81	6898.50	6910.88	6792.75	6561.00	6227.44	5724.00	5236.31	4714.31
225.0	6885.00	6892.31	6801.75	6589.13	6275.25	5839.88	5398.88	4834.13	4254.75
270.0	6828.19	6815.25	6654.38	6406.31	6059.81	5609.25	5099.06	4617.56	4070.81
315.0	6787.13	6611.06	6304.50	5891.63	5478.19	4972.50	4503.94	3978.00	3488.06
360.0	6860.81	6682.50	6381.00	6013.13	5559.75	5105.81	4594.50	4131.56	3639.94
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3187.69	2762.44	2422.13	2116.13	1811.25	1545.19	1334.81	1145.25	942.19
45.0	3417.19	3011.06	2602.69	2275.88	1943.44	1663.88	1455.75	1243.13	1053.00
90.0	3523.50	3052.69	2601.56	2316.38	1994.63	1688.63	1501.31	1306.69	1085.12
135.0	4167.00	3745.13	3192.19	2796.19	2437.88	2047.50	1791.00	1563.75	1310.06
180.0	4113.00	3560.63	3129.19	2692.13	2301.75	1996.88	1706.06	1480.50	1114.37
225.0	3771.00	3269.81	2801.25	2432.81	2114.44	1775.81	1537.31	1324.13	1116.79
270.0	3564.00	3141.56	2705.63	2353.50	2010.38	1717.88	1488.94	1280.81	1059.19
315.0	3077.44	2653.88	2271.38	1974.94	1716.19	1438.88	1103.12	1059.69	905.34
360.0	3187.69	2762.44	2422.13	2116.13	1811.25	1545.19	1334.81	1145.25	942.19
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	792.56	659.25	499.50	384.75	306.00	175.78	102.99	54.39	25.88
45.0	903.94	757.13	588.94	469.13	354.94	301.50	144.84	84.54	45.00
90.0	931.73	791.49	655.20	501.13	383.01	275.79	169.65	105.69	59.01
135.0	1132.31	966.94	792.00	655.88	522.56	380.25	285.75	228.49	113.34
180.0	1050.47	898.20	755.04	592.09	472.33	362.70	240.24	161.94	101.81
225.0	936.62	794.98	641.08	501.08	388.24	276.47	190.80	112.61	57.94
270.0	901.69	761.06	594.56	476.44	363.38	284.06	154.24	93.26	45.96
315.0	725.29	592.20	470.64	334.41	235.69	152.04	83.70	39.04	22.95
360.0	792.56	659.25	499.50	384.75	306.00	175.78	102.99	54.39	25.88
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	19.24	16.14	14.29	12.99	11.87	10.91	10.18	9.62	8.94
45.0	22.50	17.61	15.75	14.12	12.88	11.98	11.03	10.24	9.68
90.0	29.48	19.52	17.10	15.30	14.06	12.88	11.81	11.03	10.29
135.0	56.76	32.74	20.59	17.72	16.03	14.63	13.56	12.49	11.53
180.0	53.16	26.94	20.19	16.99	15.58	14.18	12.99	12.09	11.19
225.0	31.78	21.99	17.49	15.86	14.51	13.16	12.15	11.31	10.52
270.0	25.54	18.96	16.03	14.46	13.05	11.93	11.03	10.29	9.51
315.0	17.49	15.24	13.56	12.21	11.25	10.35	9.68	9.11	8.66
360.0	19.24	16.14	14.29	12.99	11.87	10.91	10.18	9.62	8.94
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	8.49	8.10	7.71	7.37	7.14	6.92	6.69	6.53	6.36
45.0	9.17	8.72	8.21	7.88	7.59	7.37	7.03	6.86	6.69
90.0	9.62	9.11	8.66	8.21	7.88	7.59	7.26	7.03	6.81
135.0	10.69	10.13	9.45	8.94	8.55	8.16	7.76	7.48	7.20
180.0	10.35	9.84	9.34	8.78	8.38	7.99	7.59	7.37	7.09
225.0	9.79	9.28	8.78	8.33	7.93	7.65	7.31	7.03	6.86
270.0	8.94	8.55	8.10	7.71	7.43	7.14	6.86	6.69	6.53
315.0	8.16	7.82	7.48	7.20	6.92	6.75	6.58	6.36	6.24
360.0	8.49	8.10	7.71	7.37	7.14	6.92	6.69	6.53	6.36



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	6.19	6.08	5.91	5.79	5.68	5.57	5.46	5.40	5.34
45.0	6.47	6.30	6.19	6.02	5.91	5.79	5.68	5.57	5.51
90.0	6.58	6.47	6.30	6.13	5.96	5.91	5.74	5.68	5.63
135.0	6.92	6.75	6.53	6.41	6.24	6.08	5.96	5.85	5.74
180.0	6.81	6.64	6.41	6.24	6.13	5.96	5.85	5.74	5.63
225.0	6.64	6.47	6.30	6.13	6.02	5.91	5.79	5.68	5.63
270.0	6.36	6.19	6.08	5.96	5.85	5.74	5.68	5.57	5.51
315.0	6.08	5.96	5.85	5.74	5.68	5.57	5.46	5.40	5.34
360.0	6.19	6.08	5.91	5.79	5.68	5.57	5.46	5.40	5.34
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	5.29	5.23	5.12	5.06	5.01	5.01	4.95	4.89	4.84
45.0	5.40	5.34	5.34	5.23	5.18	5.12	5.06	5.01	5.01
90.0	5.51	5.46	5.40	5.29	5.23	5.18	5.12	5.12	5.06
135.0	5.63	5.57	5.46	5.40	5.34	5.23	5.18	5.12	5.06
180.0	5.51	5.46	5.40	5.29	5.23	5.18	5.12	5.06	5.01
225.0	5.51	5.46	5.34	5.34	5.23	5.18	5.12	5.06	5.06
270.0	5.40	5.34	5.29	5.23	5.18	5.12	5.12	5.06	5.01
315.0	5.23	5.18	5.12	5.12	5.01	5.01	4.95	4.89	4.84
360.0	5.29	5.23	5.12	5.06	5.01	5.01	4.95	4.89	4.84
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	4.78	4.78	4.78	4.73	4.73	4.67	4.61	4.61	4.61
45.0	4.95	4.89	4.89	4.89	4.84	4.78	4.78	4.78	4.73
90.0	5.01	5.01	4.95	4.89	4.89	4.84	4.84	4.78	4.78
135.0	5.01	4.95	4.95	4.89	4.89	4.84	4.78	4.78	4.73
180.0	4.95	4.89	4.84	4.78	4.78	4.73	4.73	4.67	4.67
225.0	4.95	4.95	4.89	4.89	4.89	4.84	4.78	4.78	4.78
270.0	4.95	4.95	4.89	4.89	4.84	4.84	4.84	4.78	4.78
315.0	4.84	4.84	4.78	4.73	4.73	4.67	4.67	4.67	4.67
360.0	4.78	4.78	4.78	4.73	4.73	4.67	4.61	4.61	4.61
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	4.56	4.56	4.56	4.56	4.50	4.50	4.50	4.50	4.44
45.0	4.73	4.67	4.67	4.67	4.61	4.61	4.61	4.56	4.61
90.0	4.78	4.73	4.73	4.73	4.73	4.67	4.67	4.67	4.67
135.0	4.73	4.67	4.67	4.61	4.61	4.61	4.61	4.56	4.56
180.0	4.61	4.61	4.56	4.61	4.56	4.56	4.50	4.50	4.44
225.0	4.73	4.73	4.67	4.67	4.67	4.67	4.61	4.61	4.61
270.0	4.73	4.73	4.73	4.73	4.67	4.67	4.67	4.67	4.67
315.0	4.61	4.61	4.61	4.56	4.56	4.56	4.56	4.56	4.50
360.0	4.56	4.56	4.56	4.56	4.50	4.50	4.50	4.50	4.44
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	4.44	4.50	4.44	4.44	4.44	4.44	4.44	4.44	4.44
45.0	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56
90.0	4.67	4.67	4.73	4.78	4.73	4.56	4.56	4.56	4.56
135.0	4.56	4.56	4.50	4.56	4.50	4.50	4.50	4.50	4.50
180.0	4.50	4.44	4.44	4.44	4.44	4.44	4.44	4.44	4.44
225.0	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56
270.0	4.61	4.67	4.67	4.61	4.61	4.56	4.56	4.56	4.56
315.0	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50
360.0	4.44	4.50	4.44	4.44	4.44	4.44	4.44	4.44	4.44

Intensity data(cd)

<b>C/γ(°)</b>	<b>90.0</b>
<b>0.0</b>	<b>4.44</b>
<b>45.0</b>	<b>4.50</b>
<b>90.0</b>	<b>4.50</b>
<b>135.0</b>	<b>4.50</b>
<b>180.0</b>	<b>4.44</b>
<b>225.0</b>	<b>4.56</b>
<b>270.0</b>	<b>4.56</b>
<b>315.0</b>	<b>4.50</b>
<b>360.0</b>	<b>4.44</b>