



NATA LIGHTING CO.,LTD.  
www.nata.cn  
Email:info@nata.com  
Tel:+86-750-3770000 Fax:+86-750-3771111  
Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

---

## Nata

---

LumCAT: 3-1547-A3  
Luminaire: 99.02.73.172+92.76.365.00  
Report No: NATA0100  
Test No: GC2019091105  
LampCAT: TRIDONIC SLE G7 13MM  
Lamp flux(lm): 2175  
Number of Lamps: 1  
Length(mm): 84  
Phm Type: C

Voltage(V): 34.5800  
Current(A): 0.3970  
Power (W): 13.7000  
PF: 0.0000  
Ballast type: DC  
Width(mm): 84  
Height(mm): 0

---

## Photometric Results

---

Lumens(lm): 1972.08  
Efficiency(%): 90.7%  
Lumens(lm)/Power(W): 143.95  
Central intensity(cd): 3843.984  
Maximum intensity(cd): 3843.984  
Angle of maximum intensity: C=0.0  $\gamma$ =0.0  
Beam Angle(50%Imax): [C0/180]Total=39.6  
                                  [C90/270]Total=39.6  
Field angle(10%Imax): [C0/180]Total=70.9  
                                  [C90/270]Total=70.9  
Maximum s/h(1/2): C0\_180=0.65 C90\_270=0.65  
Maximum s/h(1/4): C0\_180=0.64 C90\_270=0.64  
Up flux rate of lamp(%): 0.00%  
Down flux rate of lamp(%): 0.00%  
Up flux rate of LUM(%): - -  
Down flux rate of LUM(%): 100.00%  
CIE Type : Direct lighting  
Output flux ratio in  $\pi$  solid angle : 98.517%

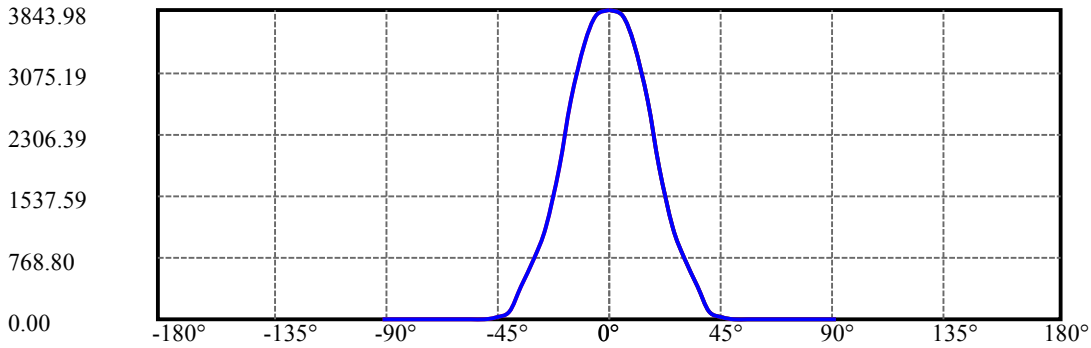
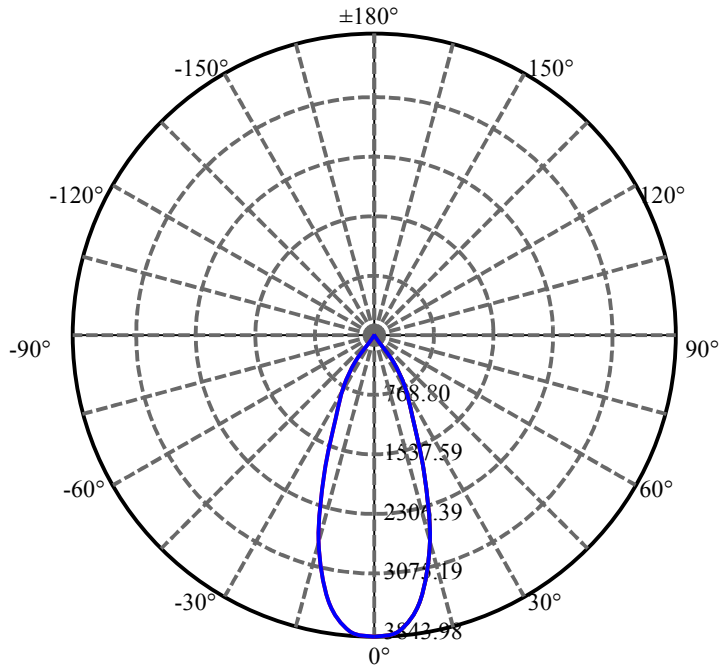
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3843.984	0.000	0	.000%	.000%
5.0	3781.125	91.156	91.156	.000%	4.622%
10.0	3422.883	257.710	348.866	.000%	17.690%
15.0	2718.211	364.286	713.152	.000%	36.162%
20.0	1884.867	379.358	1092.51	.000%	55.399%
25.0	1148.484	318.143	1410.653	.000%	71.531%
30.0	762.609	241.851	1652.503	.000%	83.795%
35.0	413.248	173.153	1825.656	.000%	92.575%
40.0	88.144	83.653	1909.31	.000%	96.817%
45.0	13.366	18.795	1928.105	.000%	97.770%
50.0	11.595	5.044	1933.149	.000%	98.026%
55.0	10.730	4.854	1938.003	.000%	98.272%
60.0	10.174	4.832	1942.835	.000%	98.517%
65.0	9.766	4.848	1947.682	.000%	98.763%
70.0	9.457	4.867	1952.55	.000%	99.010%
75.0	9.225	4.883	1957.433	.000%	99.257%
80.0	9.042	4.888	1962.321	.000%	99.505%
85.0	8.965	4.893	1967.214	.000%	99.753%
90.0	8.803	4.865	1972.079	.000%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1652.50	N.A.	83.79%
0-40	1909.31	N.A.	96.82%
0-60	1942.83	N.A.	98.52%
0-90	1967.21	N.A.	99.75%
0-120	1967.21	N.A.	99.75%
0-180	1972.08	N.A.	100.00%
60-90	29.21	N.A.	1.48%
90-120	0.00	N.A.	0.00%
90-130	0.00	N.A.	0.00%
90-150	0.00	N.A.	0.00%
90-180	0.00	N.A.	0.00%
0-28.45	1577.66	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	348.87
10-20	743.64
20-30	559.99
30-40	256.81
40-50	23.84
50-60	9.69
60-70	9.72
70-80	9.77
80-90	4.89
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: —————

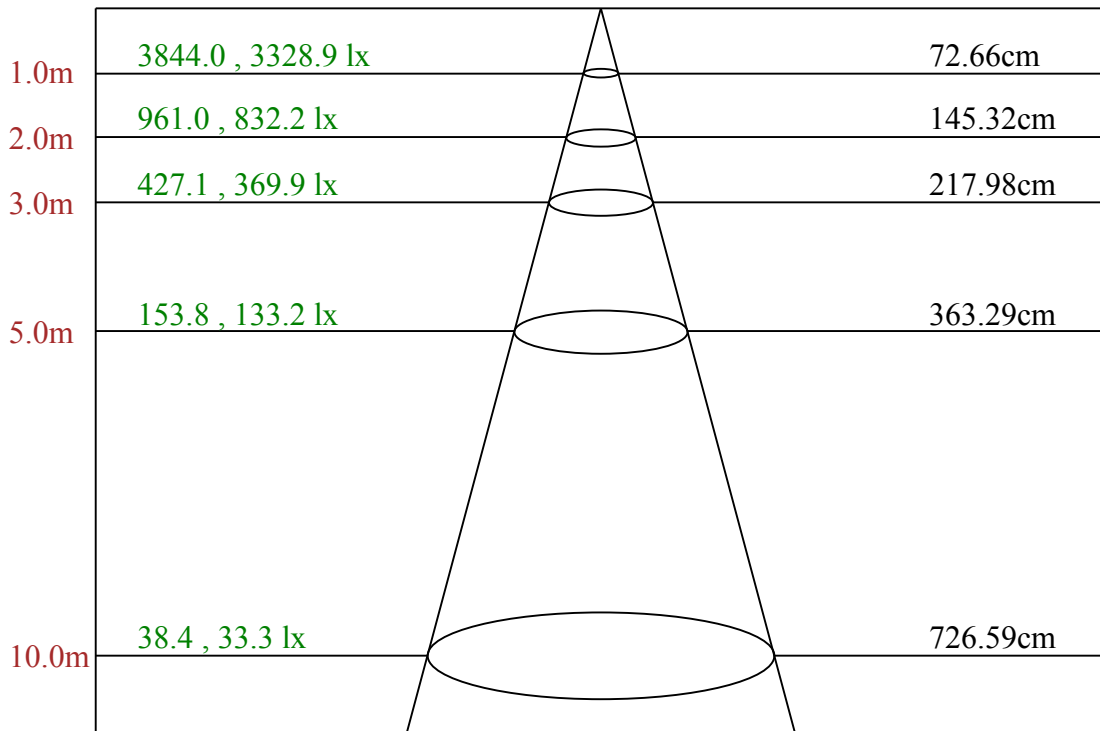
C90/C270: —————

Field angle(10%Imax):C0/180Left:35.4 Right:35.4

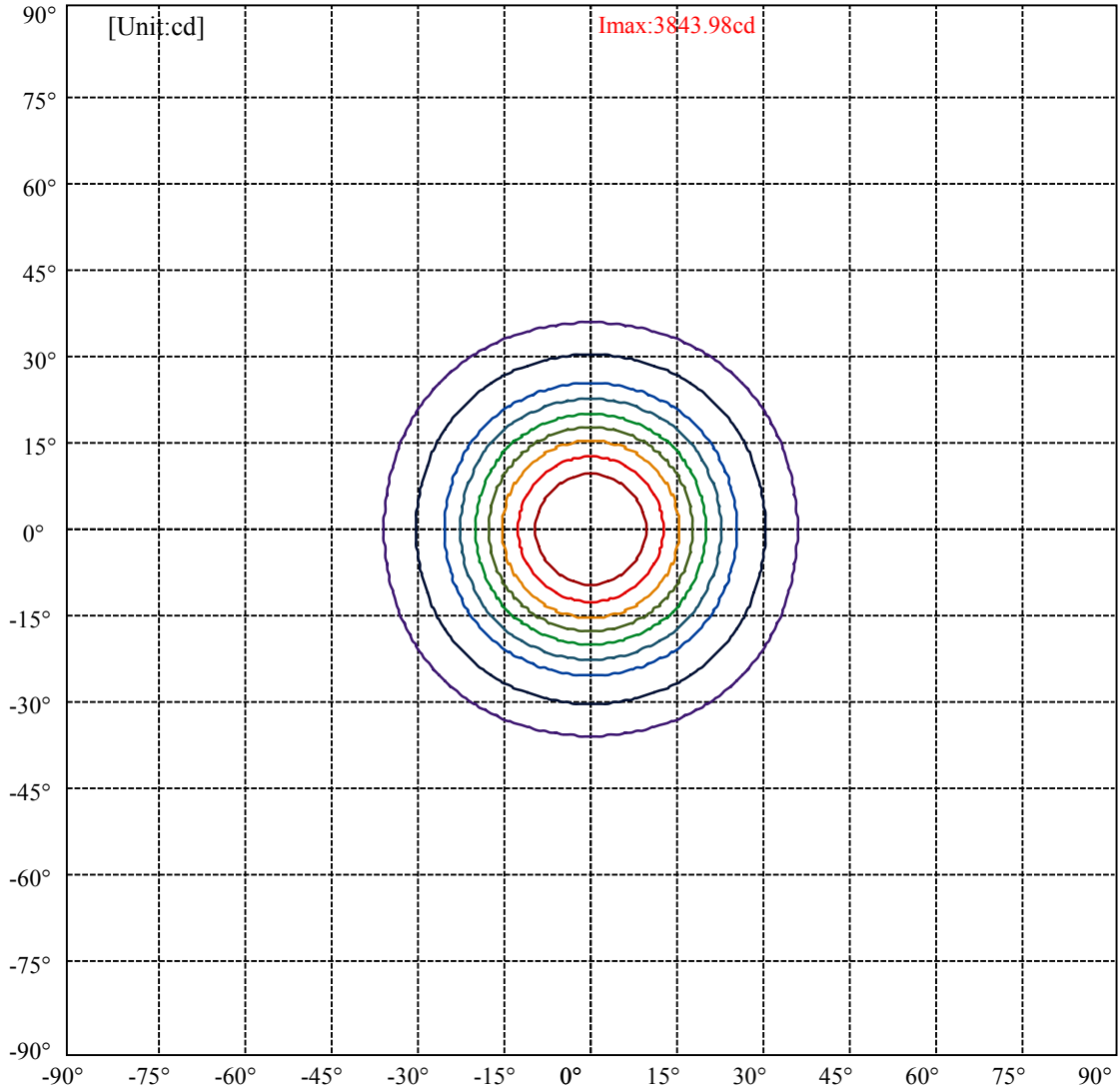
:C90/270Left:35.4 Right:35.4

Beam Angle(50%Imax):C0/180Left:19.8 Right:19.8

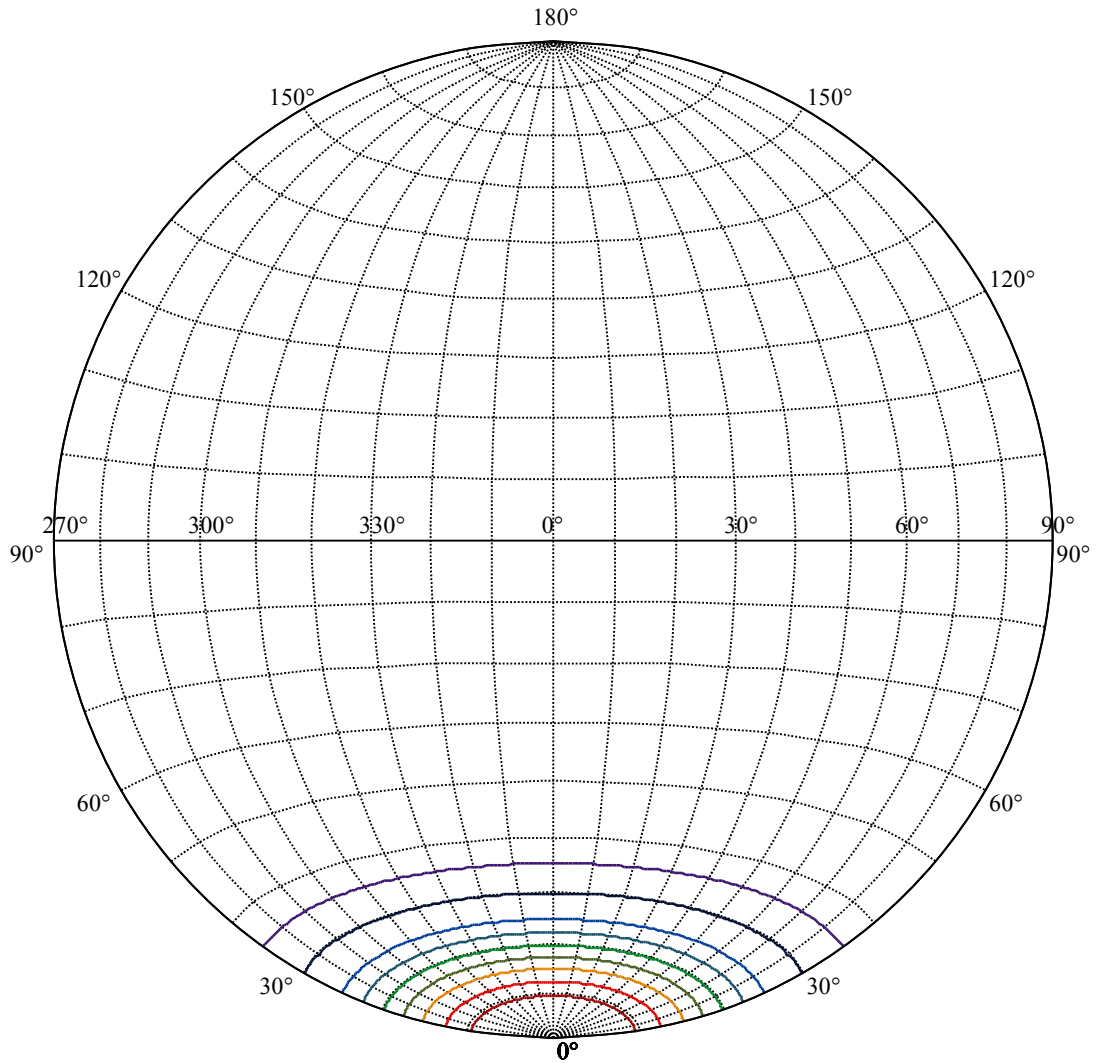
:C90/270Left:19.8 Right:19.8



Max , Ave      Beam angle of C0 plane 39.93



(10%Imax) 384.398	—
(20%Imax) 768.797	—
(30%Imax) 1153.2	—
(40%Imax) 1537.59	—
(50%Imax) 1921.99	—
(60%Imax) 2306.39	—
(70%Imax) 2690.79	—
(80%Imax) 3075.19	—
(90%Imax) 3459.59	—



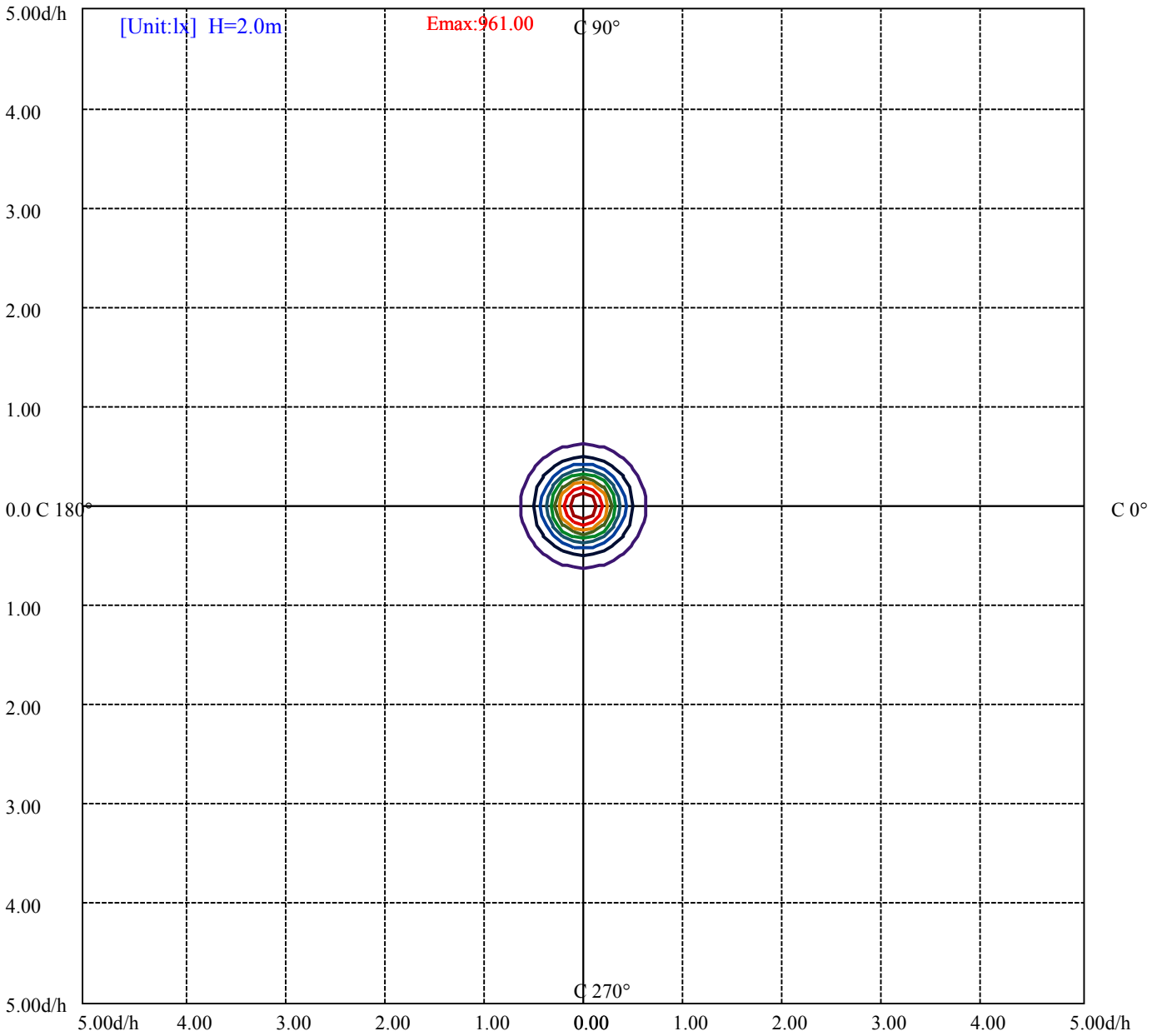
House

[Unit:cd]

Road

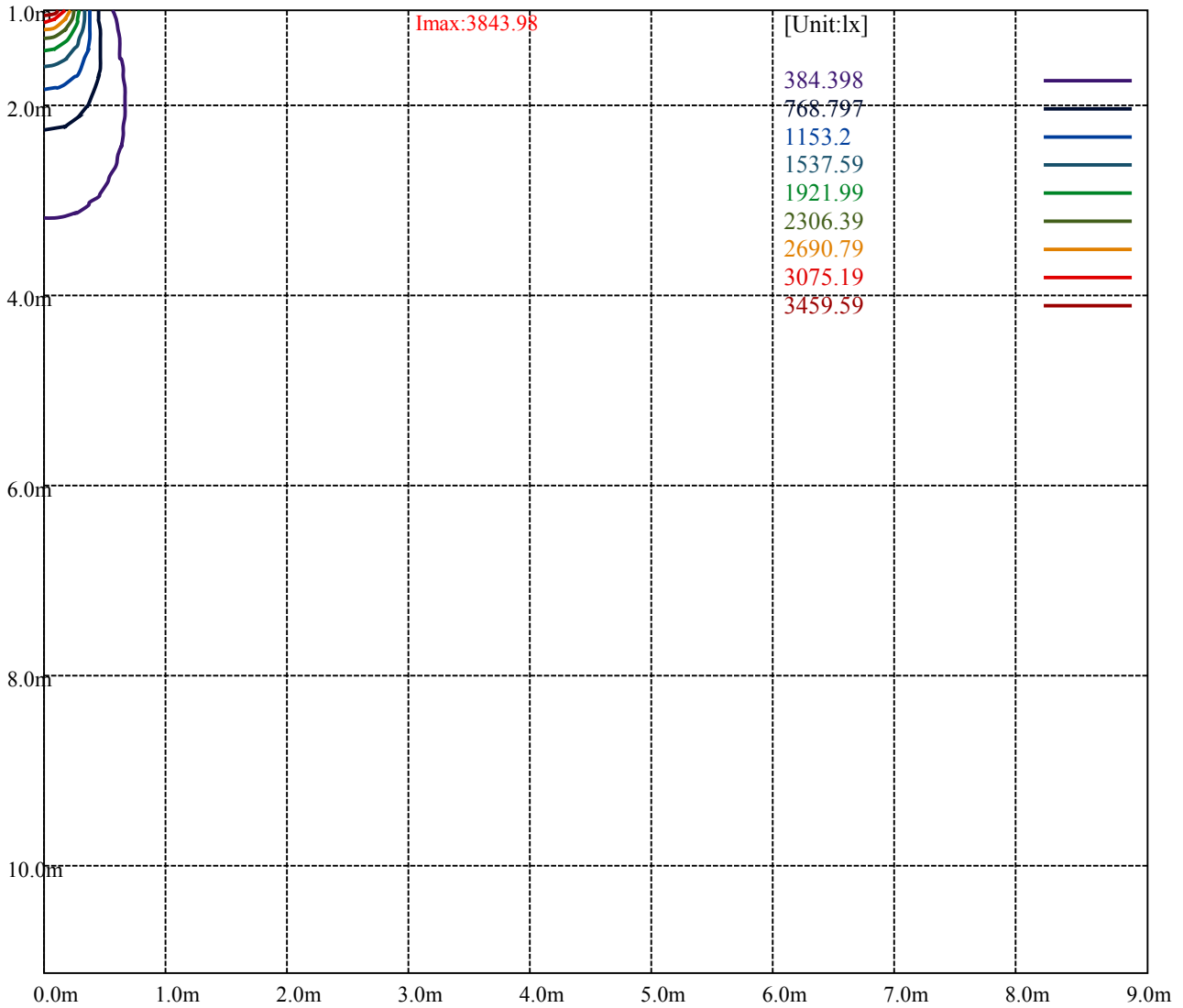
**Imax:3843.98**

(10%Imax) 384.398	—
(20%Imax) 768.797	—
(30%Imax) 1153.2	—
(40%Imax) 1537.59	—
(50%Imax) 1921.99	—
(60%Imax) 2306.39	—
(70%Imax) 2690.79	—
(80%Imax) 3075.19	—
(90%Imax) 3459.59	—



- (10%Emax) 96.0995
- (20%Emax) 192.199
- (30%Emax) 288.2975
- (40%Emax) 384.3975
- (50%Emax) 480.4975
- (60%Emax) 576.5975
- (70%Emax) 672.6975
- (80%Emax) 768.7975
- (90%Emax) 864.895





Luminance Table

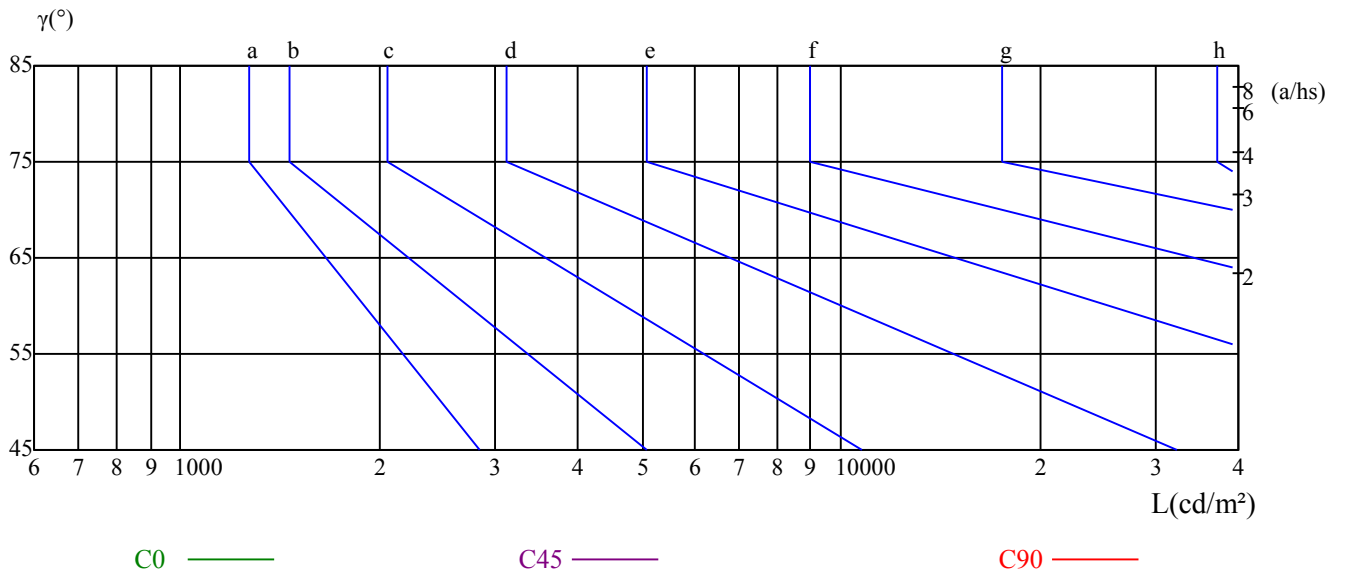
$\gamma$	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

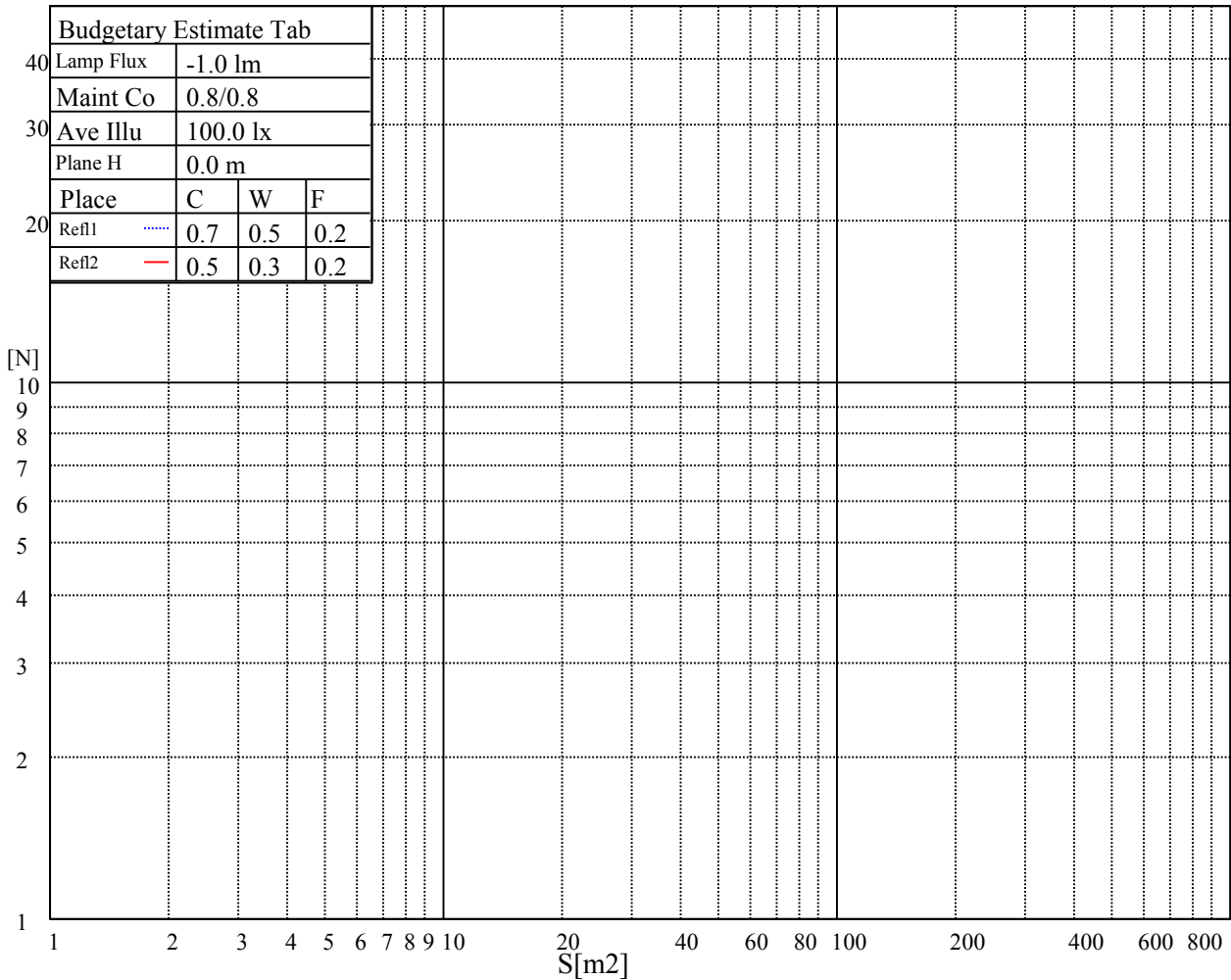
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

Glare Table

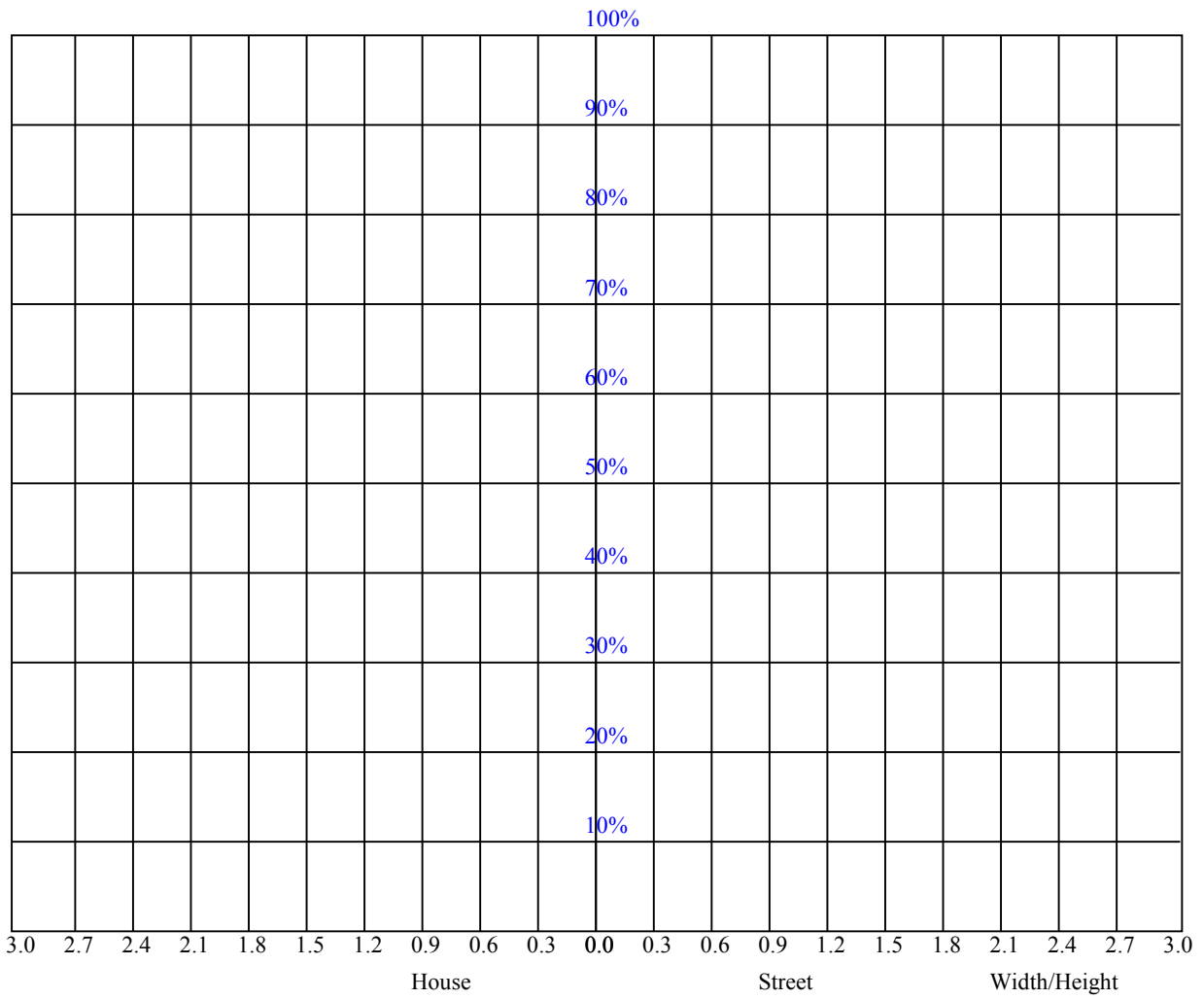
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



Intensity data(cd)

C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	3855.38	3725.44	3488.63	2965.50	2215.69	1449.56	891.00	587.81	300.38
45.0	3843.56	3753.56	3439.13	2799.56	2016.56	1258.31	795.38	479.81	57.04
90.0	3835.13	3749.06	3276.56	2450.81	1575.56	987.98	679.84	259.99	23.51
135.0	3841.88	3796.88	3385.13	2512.13	1659.38	1004.63	685.69	303.19	26.33
180.0	3855.38	3782.25	3270.94	2479.50	1549.69	924.36	660.38	242.55	21.77
225.0	3843.56	3839.06	3454.88	2639.25	1832.63	1071.45	699.64	346.33	27.79
270.0	3835.13	3849.19	3603.38	3029.63	2183.06	1386.00	861.75	560.81	179.66
315.0	3841.88	3753.56	3464.44	2869.31	2046.38	1105.59	827.21	525.49	68.68
360.0	3855.38	3725.44	3488.63	2965.50	2215.69	1449.56	891.00	587.81	300.38

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	14.74	11.98	10.91	10.29	9.84	9.56	9.34	9.17	9.00
45.0	13.56	11.64	10.74	10.18	9.73	9.45	9.17	9.00	8.89
90.0	12.49	11.31	10.63	10.07	9.68	9.34	9.17	9.00	9.00
135.0	12.88	11.59	10.74	10.24	9.79	9.51	9.23	9.06	9.23
180.0	12.26	11.31	10.58	10.13	9.79	9.45	9.23	9.06	8.94
225.0	12.66	11.31	10.52	10.01	9.62	9.34	9.17	8.94	8.83
270.0	14.46	11.87	10.86	10.24	9.84	9.51	9.23	9.06	8.89
315.0	13.89	11.76	10.86	10.24	9.84	9.51	9.28	9.06	8.94
360.0	14.74	11.98	10.91	10.29	9.84	9.56	9.34	9.17	9.00

C/γ(°)	90.0
0.0	8.89
45.0	8.72
90.0	8.78
135.0	8.83
180.0	8.89
225.0	8.72
270.0	8.78
315.0	8.83
360.0	8.89