
LumCAT: 2-1779-L
Luminaire: 92.70.131.00
Report No: NATA0100
Test No: GC2019120312
LampCAT: TRIDONIC SLE G7 13MM
Lamp flux(lm): 1765.0
Number of Lamps: 1
Length(mm): 0
Phm Type: C

Voltage(V): 35.0500
Current(A): 0.3970
Power (W): 13.9100
PF: 1.0000
Ballast type: DC
Width(mm): 0
Height(mm): 0

Photometric Results

Lumens(lm): 1699.58
Efficiency(%): 96.29%
Lumens(lm)/Power(W): 122.18
Central intensity(cd): 3592.406
Maximum intensity(cd): 3592.406
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=37.3
 [C90/270]Total=37.3
Field angle(10%Imax): [C0/180]Total=68.0
 [C90/270]Total=68.0
Maximum s/h(1/2): C0_180=0.62 C90_270=0.62
Maximum s/h(1/4): C0_180=0.60 C90_270=0.60
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 96.29%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.237%

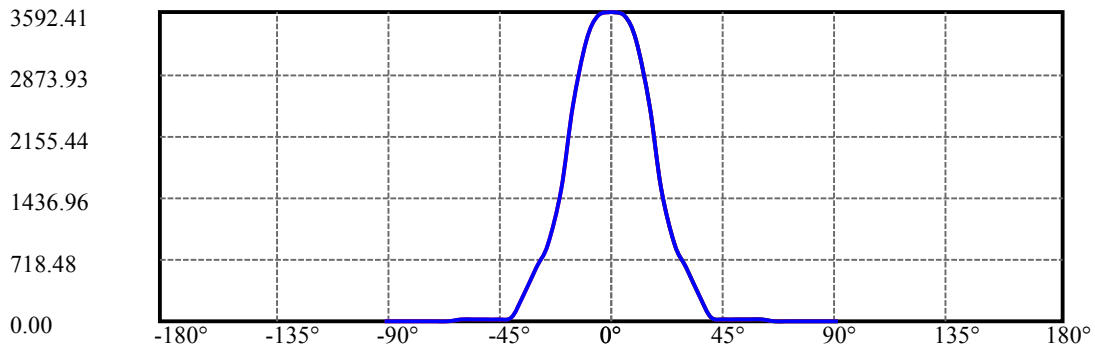
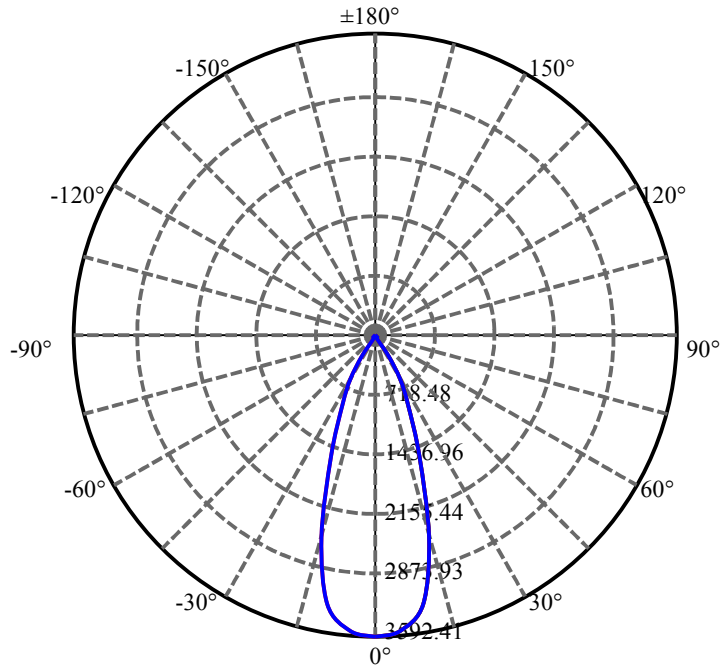
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3592.406	0.000	0	.000%	.000%
5.0	3536.859	85.228	85.228	4.829%	5.015%
10.0	3248.719	242.741	327.97	13.753%	19.297%
15.0	2498.555	340.924	668.894	19.316%	39.357%
20.0	1535.625	332.473	1001.367	18.837%	58.919%
25.0	899.283	255.377	1256.744	14.469%	73.945%
30.0	617.407	191.938	1448.683	10.875%	85.238%
35.0	294.848	134.336	1583.019	7.611%	93.142%
40.0	48.488	57.283	1640.302	3.245%	96.512%
45.0	17.459	12.210	1652.512	.692%	97.231%
50.0	13.402	6.236	1658.748	.353%	97.598%
55.0	11.791	5.478	1664.226	.310%	97.920%
60.0	11.482	5.380	1669.605	.305%	98.237%
65.0	11.046	5.477	1675.082	.310%	98.559%
70.0	10.294	5.403	1680.485	.306%	98.877%
75.0	9.253	5.109	1685.594	.289%	99.177%
80.0	8.775	4.824	1690.418	.273%	99.461%
85.0	8.388	4.664	1695.082	.264%	99.736%
90.0	8.023	4.493	1699.575	.255%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1448.68	82.08%	85.24%
0-40	1640.30	92.93%	96.51%
0-60	1669.61	94.60%	98.24%
0-90	1695.08	96.04%	99.74%
0-120	1695.08	96.04%	99.74%
0-180	1699.58	96.29%	100.00%
60-90	30.86	1.75%	1.82%
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%
0-27.68	1359.66	77.03%	80.00%

ZONAL LUMEN SUMMARY

0-10	327.97
10-20	673.40
20-30	447.32
30-40	191.62
40-50	18.45
50-60	10.86
60-70	10.88
70-80	9.93
80-90	4.66
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



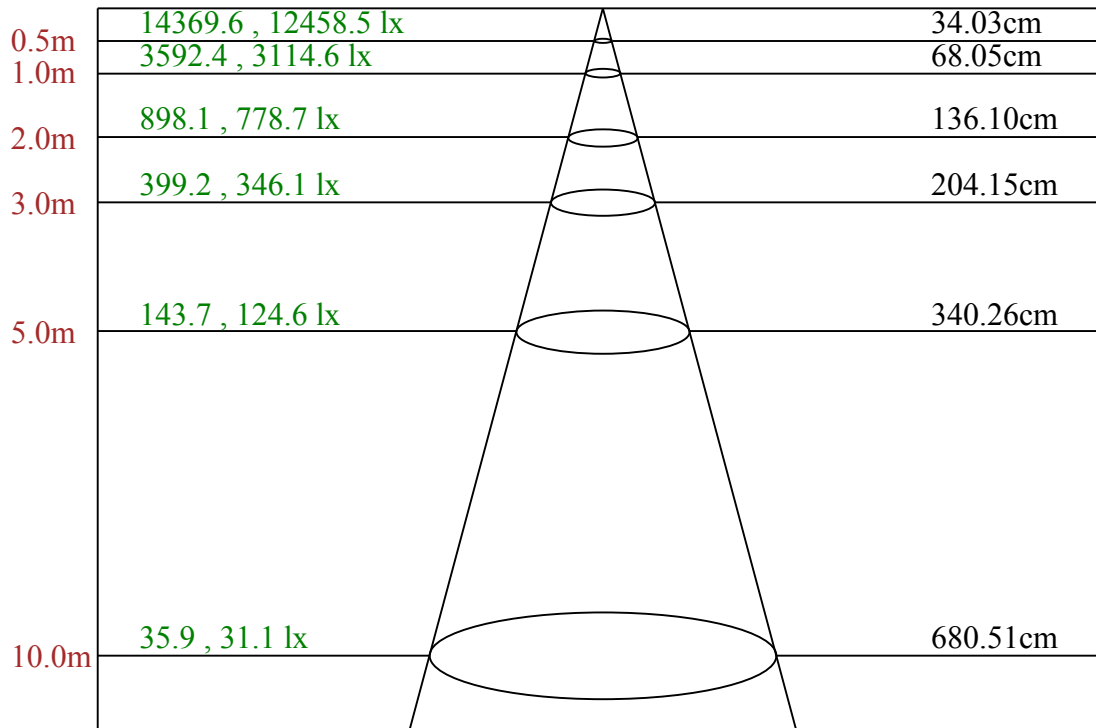
C0(Max): —————

C0/C180: —————

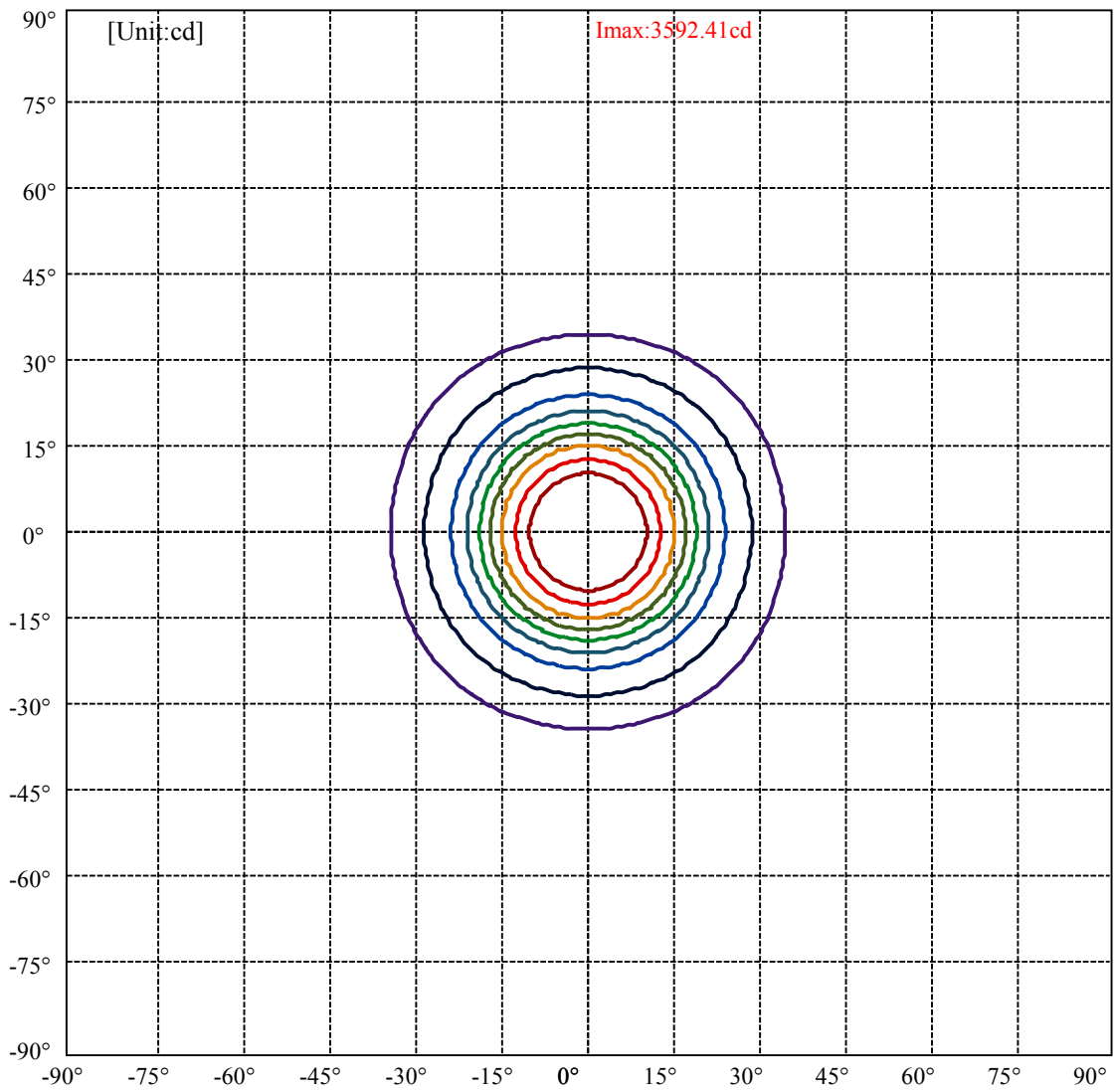
C90/C270: —————

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

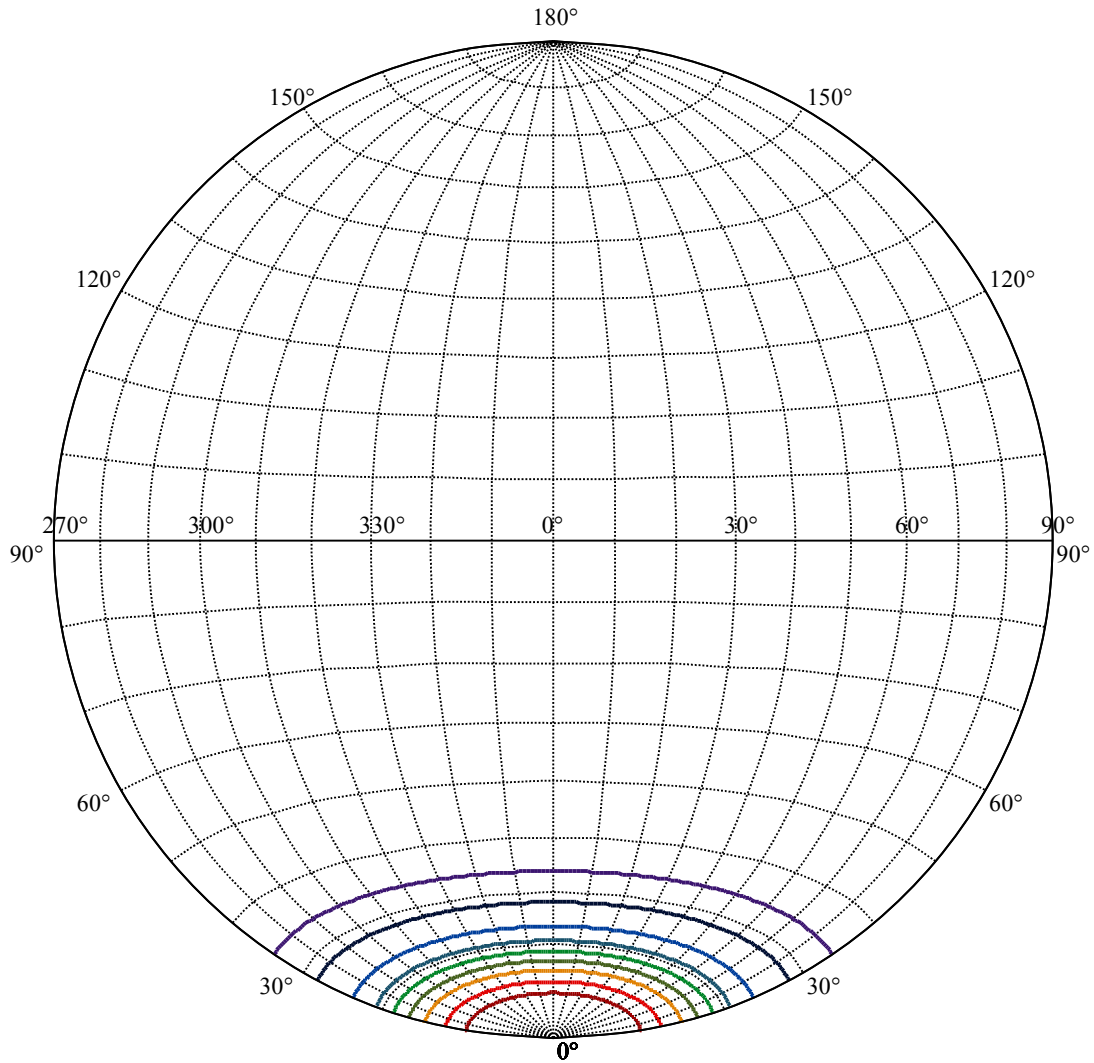
Beam Angle(50%Imax):C0/180Left:18.6 Right:18.6
:C90/270Left:18.6 Right:18.6



Max , Ave Beam angle of C0 plane 37.58



(10%Imax) 359.241	—
(20%Imax) 718.481	—
(30%Imax) 1077.72	—
(40%Imax) 1436.96	—
(50%Imax) 1796.2	—
(60%Imax) 2155.44	—
(70%Imax) 2514.68	—
(80%Imax) 2873.93	—
(90%Imax) 3233.17	—












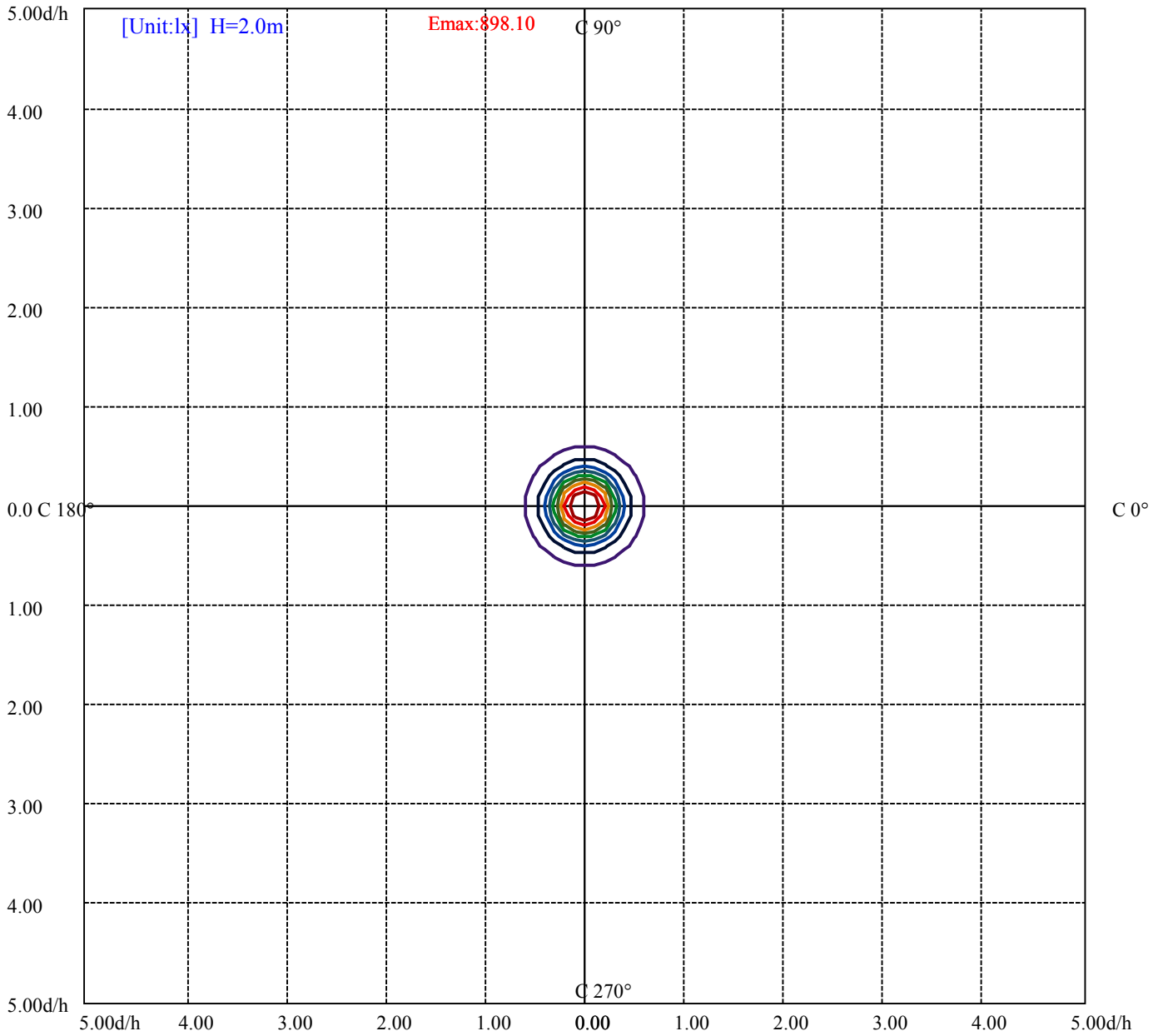
House

[Unit:cd]

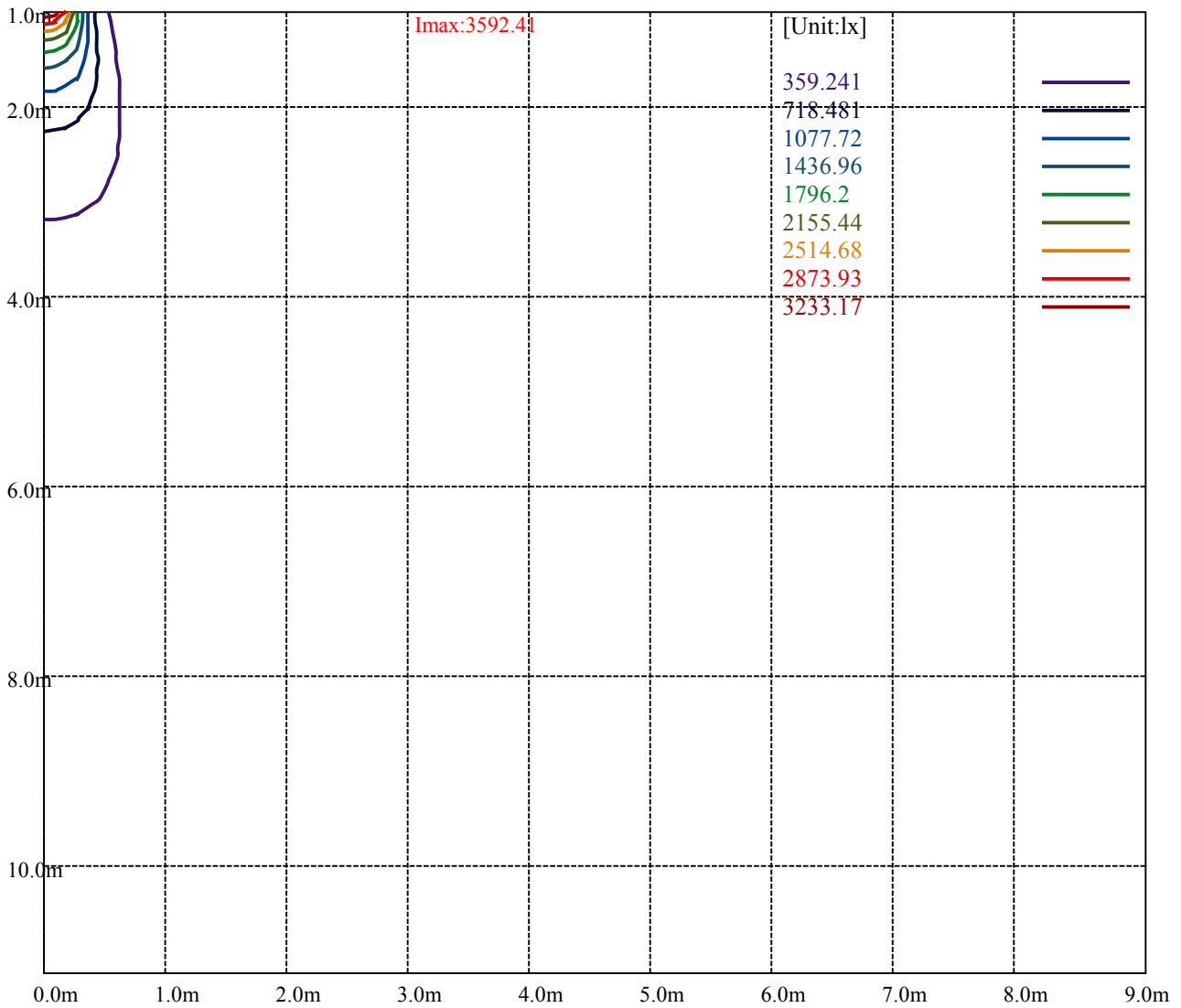
Road

Imax:3592.41

(10%Imax)	359.241	
(20%Imax)	718.481	
(30%Imax)	1077.72	
(40%Imax)	1436.96	
(50%Imax)	1796.2	
(60%Imax)	2155.44	
(70%Imax)	2514.68	
(80%Imax)	2873.93	
(90%Imax)	3233.17	



(10%Emax) 89.81	—
(20%Emax) 179.6203	—
(30%Emax) 269.43	—
(40%Emax) 359.24	—
(50%Emax) 449.05	—
(60%Emax) 538.86	—
(70%Emax) 628.67	—
(80%Emax) 718.48	—
(90%Emax) 808.29	—



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

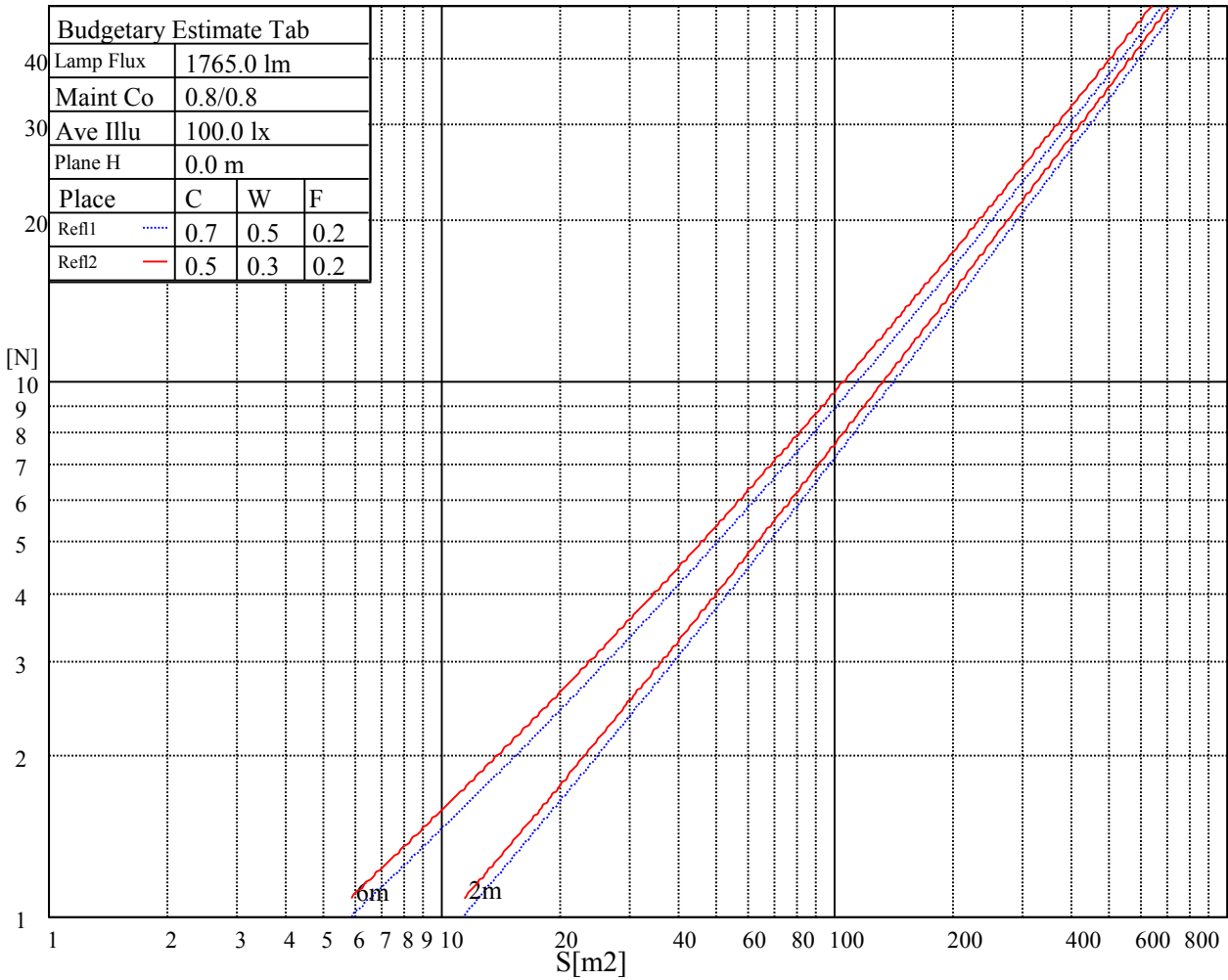
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

Glare Table

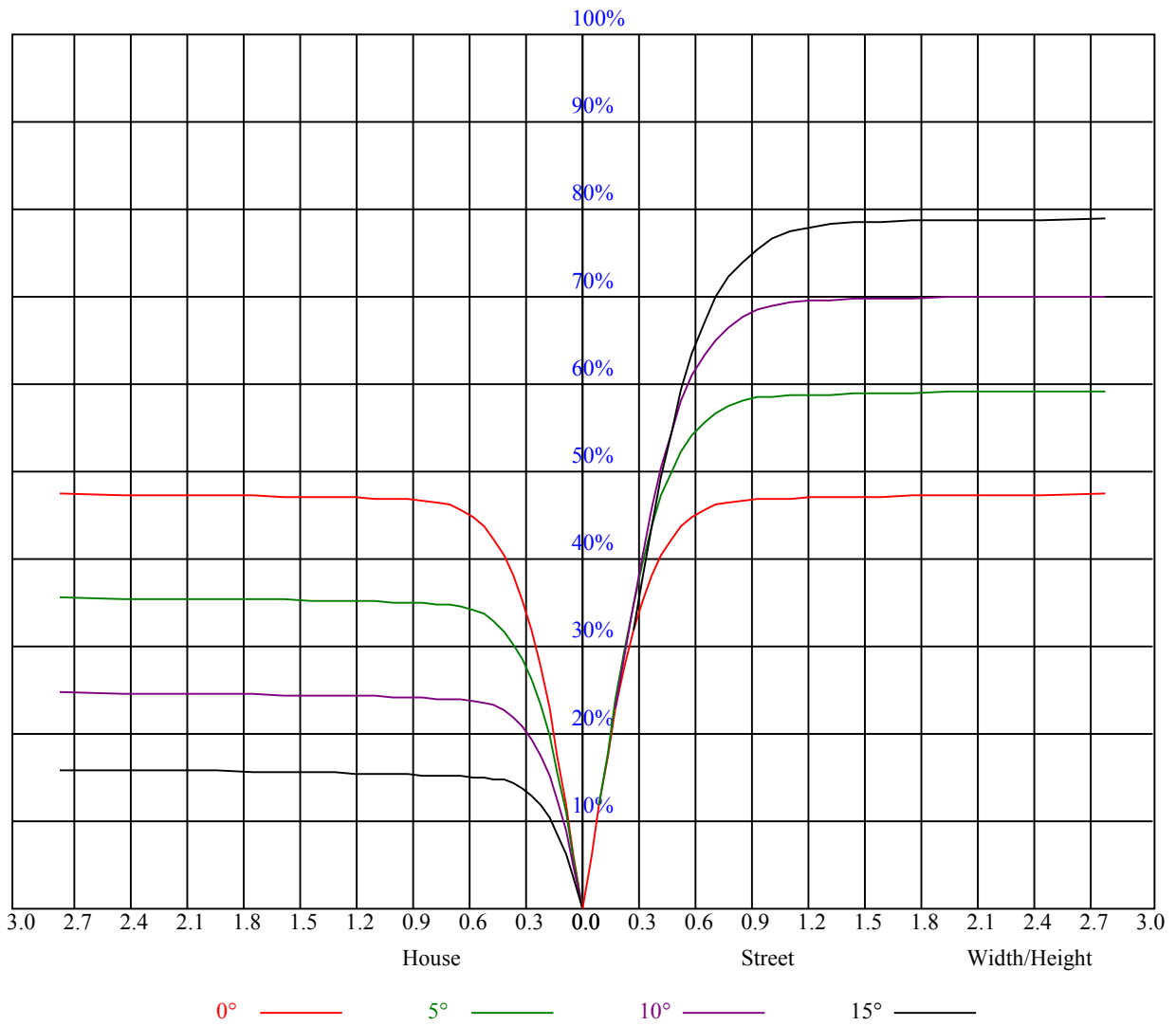
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve





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	1.15	1.15	1.15	1.12	1.12	1.12	1.07	1.07	1.07	1.02	1.02	1.02	0.98	0.98	0.98	0.96
1	1.07	1.05	1.03	1.05	1.03	1.01	1.01	1.00	0.98	0.98	0.96	0.95	0.94	0.93	0.93	0.91
2	1.01	0.97	0.94	0.99	0.96	0.93	0.96	0.94	0.91	0.93	0.91	0.89	0.91	0.89	0.88	0.86
3	0.95	0.91	0.88	0.94	0.90	0.87	0.91	0.88	0.86	0.89	0.87	0.84	0.87	0.85	0.83	0.82
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	0.77	0.85	0.80	0.77	0.83	0.79	0.76	0.82	0.78	0.76	0.80	0.77	0.75	0.74
6	0.82	0.77	0.73	0.81	0.76	0.73	0.80	0.76	0.72	0.78	0.75	0.72	0.77	0.74	0.72	0.70
7	0.78	0.73	0.70	0.77	0.73	0.69	0.76	0.72	0.69	0.75	0.71	0.69	0.74	0.71	0.68	0.67
8	0.75	0.70	0.66	0.74	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.65	0.64
9	0.71	0.67	0.63	0.71	0.66	0.63	0.70	0.66	0.63	0.69	0.66	0.63	0.69	0.65	0.63	0.62
10	0.69	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.60	0.67	0.63	0.60	0.66	0.63	0.60	0.59



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	3592.69	3654.00	3522.38	2872.69	1956.38	1088.44	710.44	408.94	100.01
45.0	3606.19	3480.75	3205.13	2649.38	1878.75	1056.94	694.13	383.63	77.63
90.0	3558.94	3282.19	2889.56	2300.06	1564.88	857.31	561.60	240.75	34.71
135.0	3611.81	3316.50	2914.88	2334.94	1678.50	1004.63	668.25	290.25	38.93
180.0	3592.69	3373.88	2903.63	2199.94	1416.94	875.53	576.96	214.20	34.59
225.0	3606.19	3610.69	3241.69	2275.31	1057.50	800.04	565.37	228.21	27.34
270.0	3558.94	3776.63	3668.06	2682.00	1421.44	737.44	568.13	300.38	39.21
315.0	3611.81	3800.25	3644.44	2674.13	1310.63	773.94	594.39	292.44	35.49
360.0	3592.69	3654.00	3522.38	2872.69	1956.38	1088.44	710.44	408.94	100.01
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	20.48	14.34	12.71	12.04	11.59	10.63	9.51	8.89	8.44
45.0	18.23	13.67	11.93	11.42	11.48	10.74	9.62	8.94	8.55
90.0	16.82	13.44	11.93	11.31	10.86	10.13	9.28	8.78	8.44
135.0	17.44	13.67	11.76	10.86	10.41	9.96	9.23	8.78	8.33
180.0	18.11	13.67	11.70	11.14	10.63	9.90	9.11	8.66	8.27
225.0	15.92	12.94	11.48	10.74	10.29	9.84	9.06	8.66	8.33
270.0	17.33	12.94	11.48	13.44	12.49	11.14	9.17	8.83	8.44
315.0	15.36	12.54	11.36	10.91	10.63	10.01	9.06	8.66	8.33
360.0	20.48	14.34	12.71	12.04	11.59	10.63	9.51	8.89	8.44
C/ γ (°)	90.0								
0.0	8.04								
45.0	8.10								
90.0	7.99								
135.0	7.99								
180.0	7.99								
225.0	8.10								
270.0	7.99								
315.0	7.99								
360.0	8.04								