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Nata

LumCAT: 1-1062-N	
Luminaire: 92.70.246.00	
Report No: 210630-B007	Voltage(V): 39.7600
Test No: 210630-C007	Current(A): 0.2510
LampCAT: Fortimo LED SLM 1201 G7N	Power (W): 9.9790
Lamp flux(lm): 1156.7	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 570	Width(mm): 45
Phm Type: C	Height(mm): 20

Photometric Results

Lumens(lm): 965.95
Efficiency(%): 83.51%
Lumens(lm)/Power(W): 96.80
Central intensity(cd): 2445.188
Maximum intensity(cd): 2445.188
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=35.4
 [C90/270]Total=35.4
Field angle(10%Imax): [C0/180]Total=59.2
 [C90/270]Total=59.2
Maximum s/h(1/2): C0_180=0.58 C90_270=0.58
Maximum s/h(1/4): C0_180=0.58 C90_270=0.58
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 83.51%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.175%

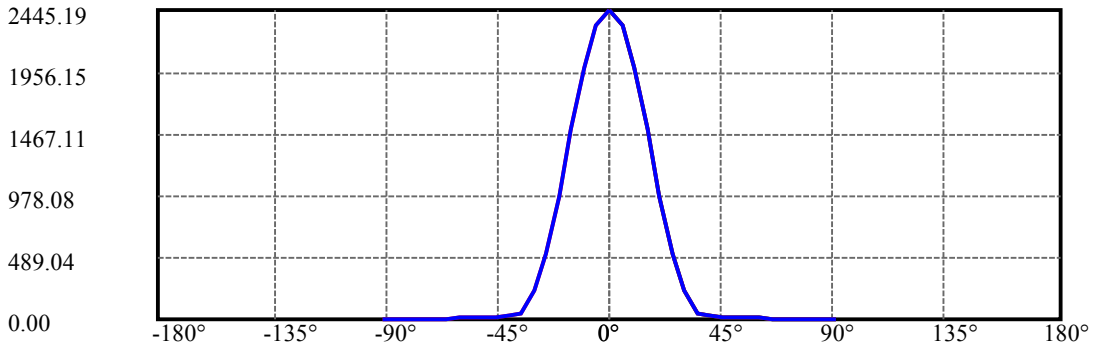
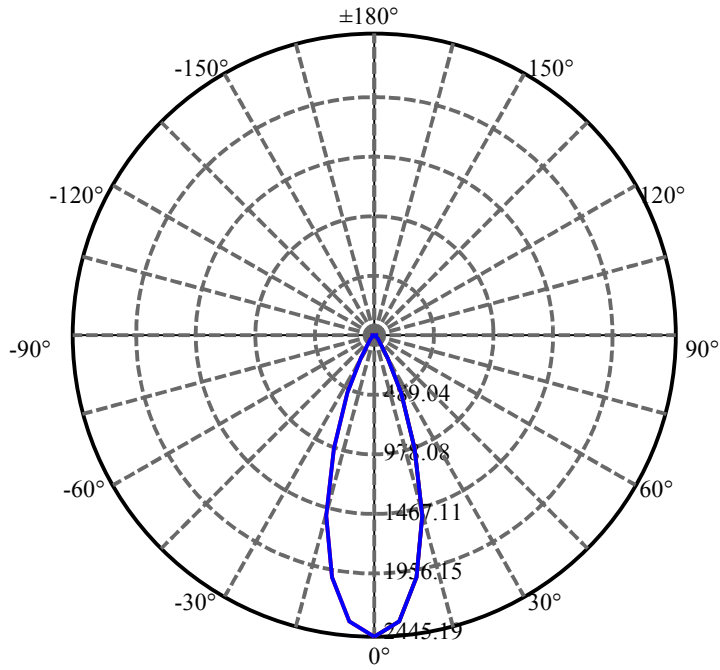
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2445.188	0.000	0	.000%	.000%
5.0	2321.930	56.990	56.99	4.927%	5.900%
10.0	1988.930	154.213	211.203	13.332%	21.865%
15.0	1509.469	207.523	418.725	17.941%	43.348%
20.0	973.920	204.666	623.391	17.694%	64.536%
25.0	519.356	156.617	780.008	13.540%	80.750%
30.0	220.669	93.651	873.659	8.097%	90.445%
35.0	40.950	38.525	912.184	3.331%	94.434%
40.0	25.868	11.148	923.332	.964%	95.588%
45.0	18.408	8.198	931.53	.709%	96.436%
50.0	14.302	6.609	938.14	.571%	97.121%
55.0	11.194	5.544	943.683	.479%	97.694%
60.0	8.902	4.645	948.328	.402%	98.175%
65.0	7.116	3.894	952.222	.337%	98.578%
70.0	6.012	3.324	955.546	.287%	98.923%
75.0	5.224	2.937	958.483	.254%	99.227%
80.0	4.767	2.673	961.156	.231%	99.503%
85.0	4.402	2.491	963.648	.215%	99.761%
90.0	4.022	2.306	965.954	.199%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	873.66	75.53%	90.45%
0-40	923.33	79.83%	95.59%
0-60	948.33	81.99%	98.18%
0-90	963.65	83.31%	99.76%
0-120	963.65	83.31%	99.76%
0-180	965.95	83.51%	100.00%
60-90	19.96	1.73%	2.07%
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%
0-24.77	772.76	66.81%	80.00%

ZONAL LUMEN SUMMARY

0-10	211.20
10-20	412.19
20-30	250.27
30-40	49.67
40-50	14.81
50-60	10.19
60-70	7.22
70-80	5.61
80-90	2.49
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: —————

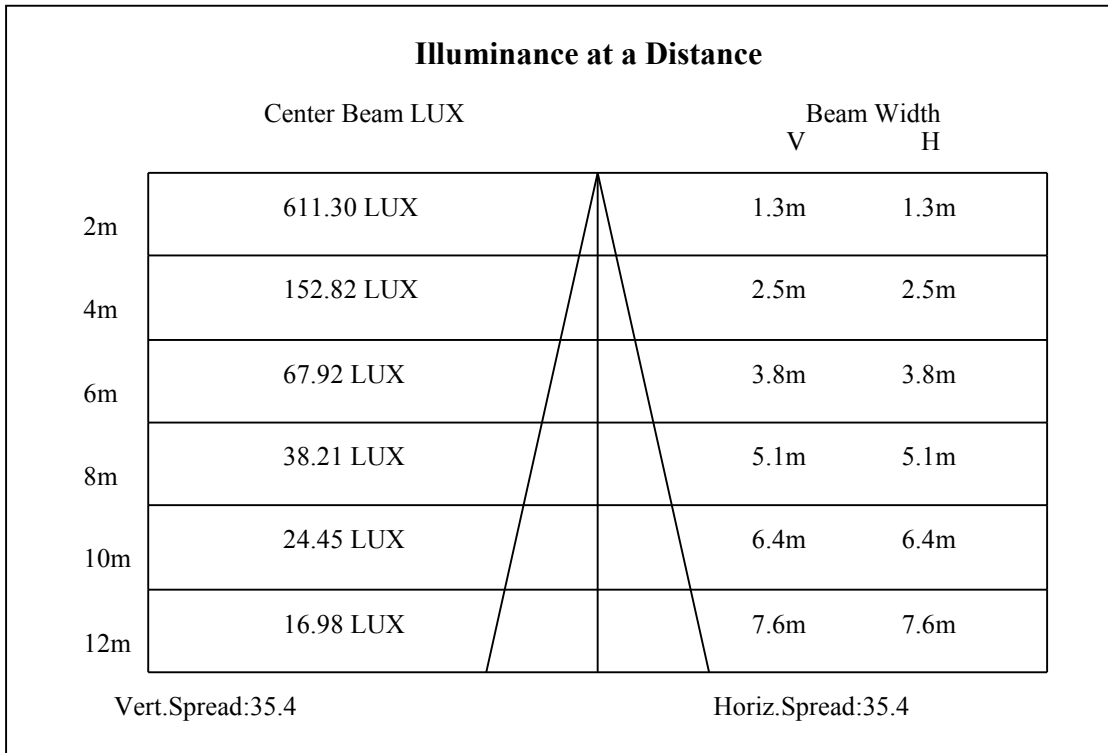
C90/C270: —————

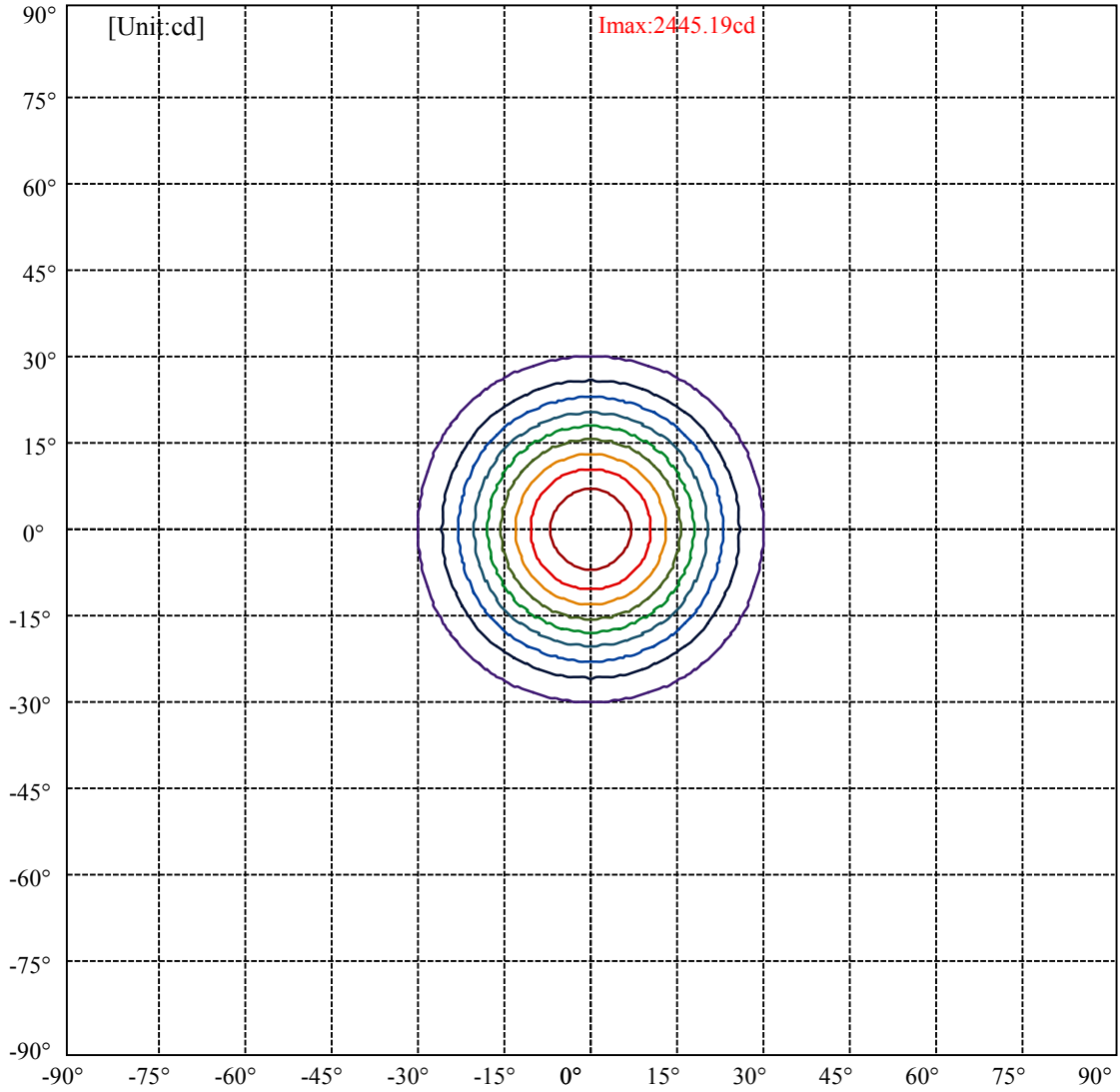
Field angle(10%Imax):C0/180Left:29.6 Right:29.6

:C90/270Left:29.6 Right:29.6

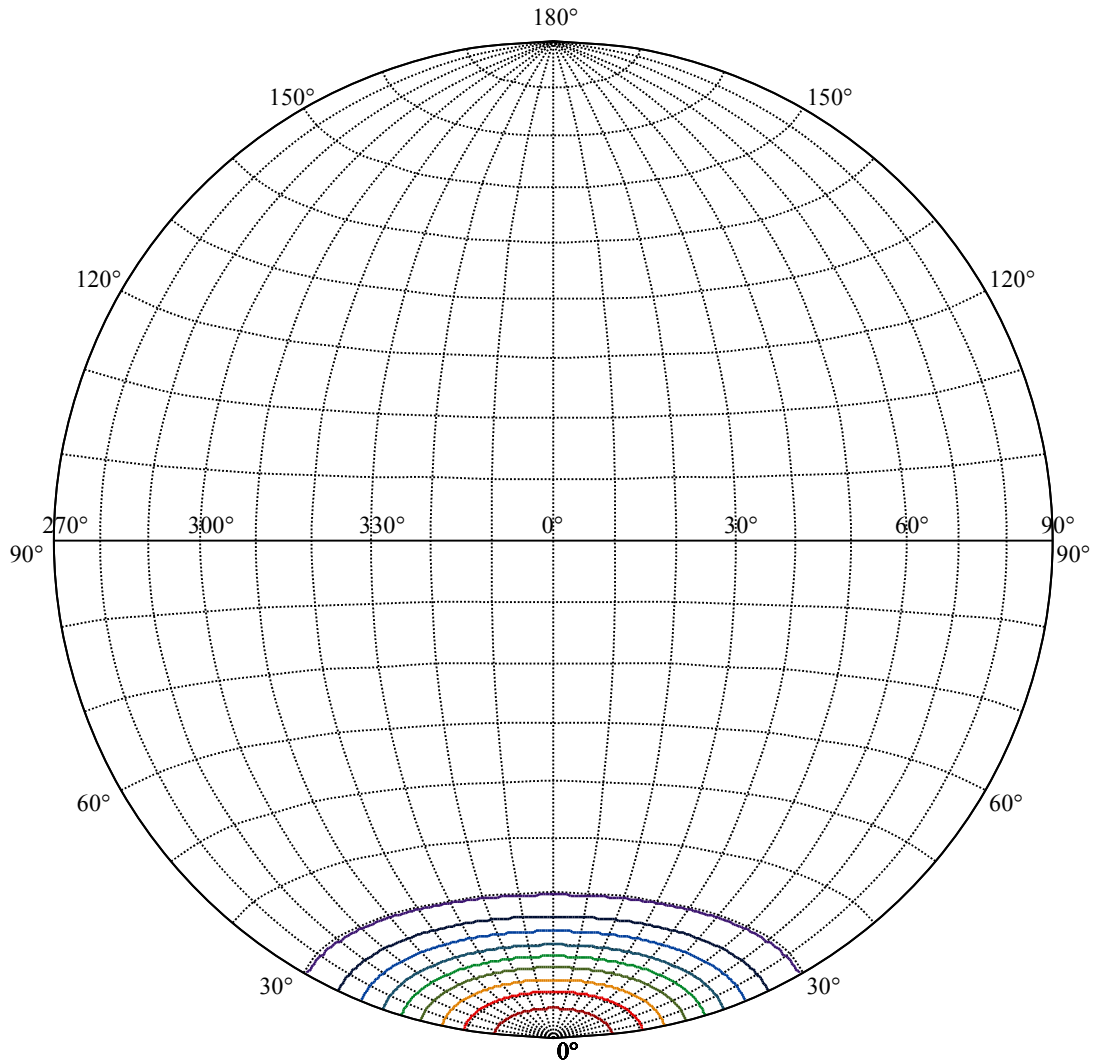
Beam Angle(50%Imax):C0/180Left:17.7 Right:17.7

:C90/270Left:17.7 Right:17.7





(10%I _{max}) 244.519	—
(20%I _{max}) 489.038	—
(30%I _{max}) 733.556	—
(40%I _{max}) 978.075	—
(50%I _{max}) 1222.59	—
(60%I _{max}) 1467.11	—
(70%I _{max}) 1711.63	—
(80%I _{max}) 1956.15	—
(90%I _{max}) 2200.67	—



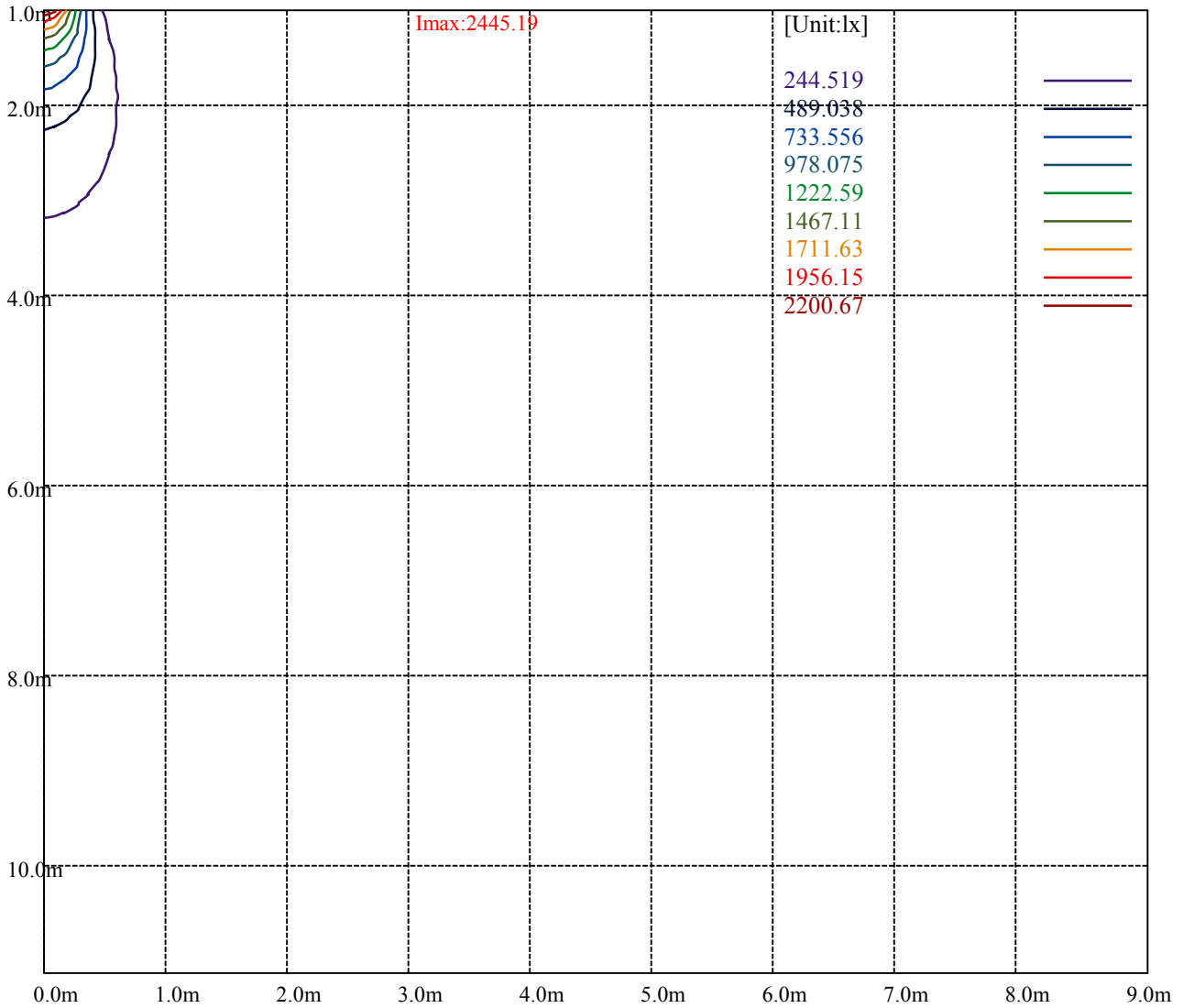
House

[Unit:cd]

Road

Imax:2445.19

(10%Imax) 244.519	—
(20%Imax) 489.038	—
(30%Imax) 733.556	—
(40%Imax) 978.075	—
(50%Imax) 1222.59	—
(60%Imax) 1467.11	—
(70%Imax) 1711.63	—
(80%Imax) 1956.15	—
(90%Imax) 2200.67	—



Luminance Table

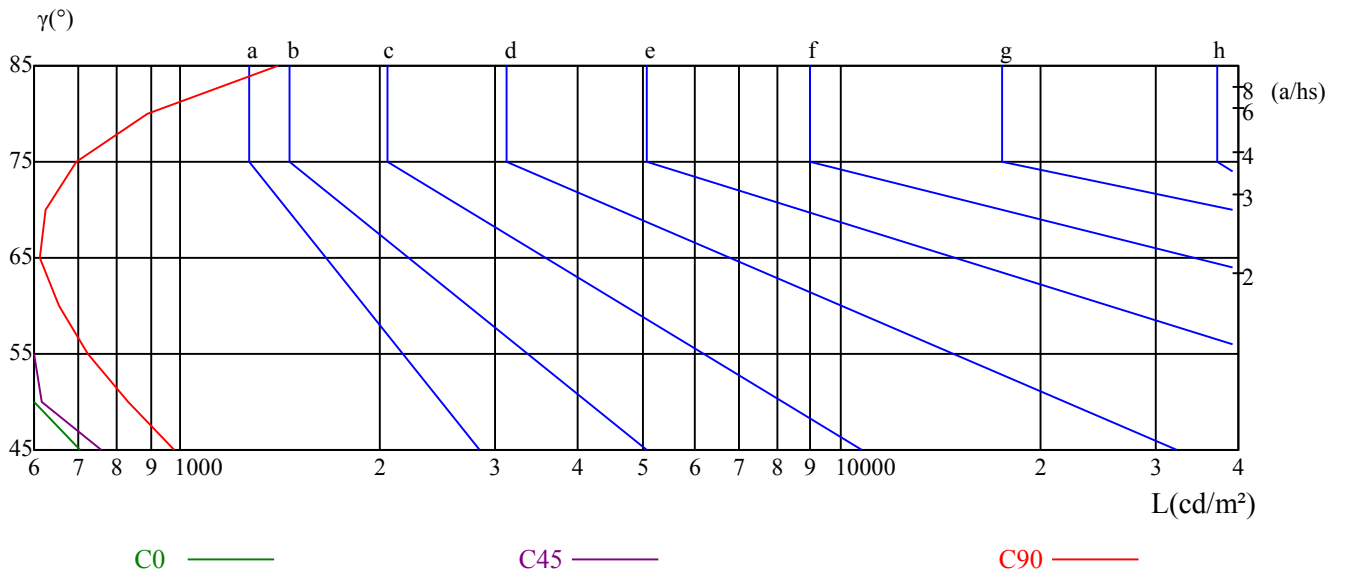
γ	45	50	55	60	65	70	75	80	85
C0	703	567	465	392	336	309	296	304	324
C45	758	618	513	437	380	355	347	366	404
C90	981	833	725	654	610	625	696	893	1405

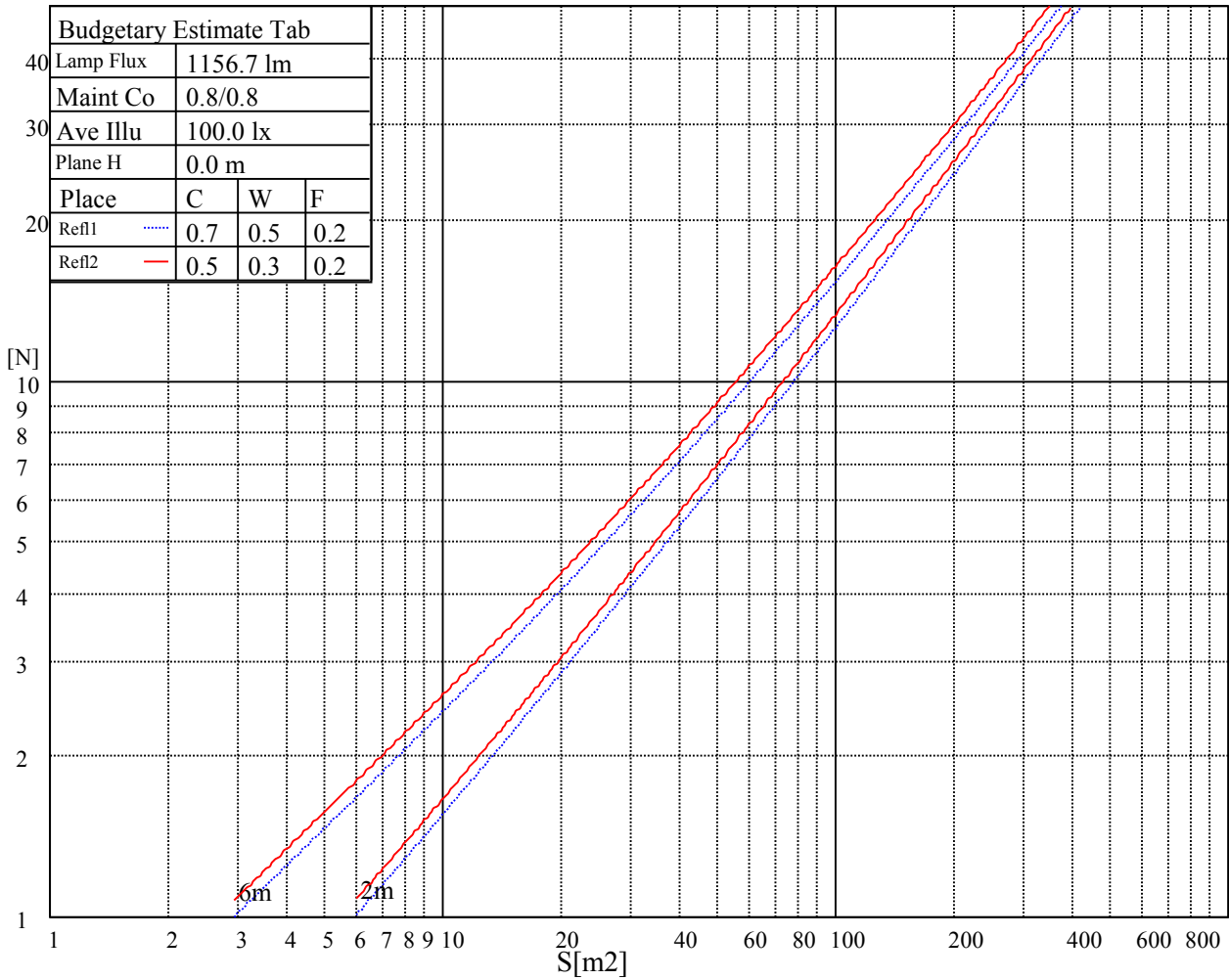
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
656	656	656	787	787	787	1969	1969	1969

Glare Table

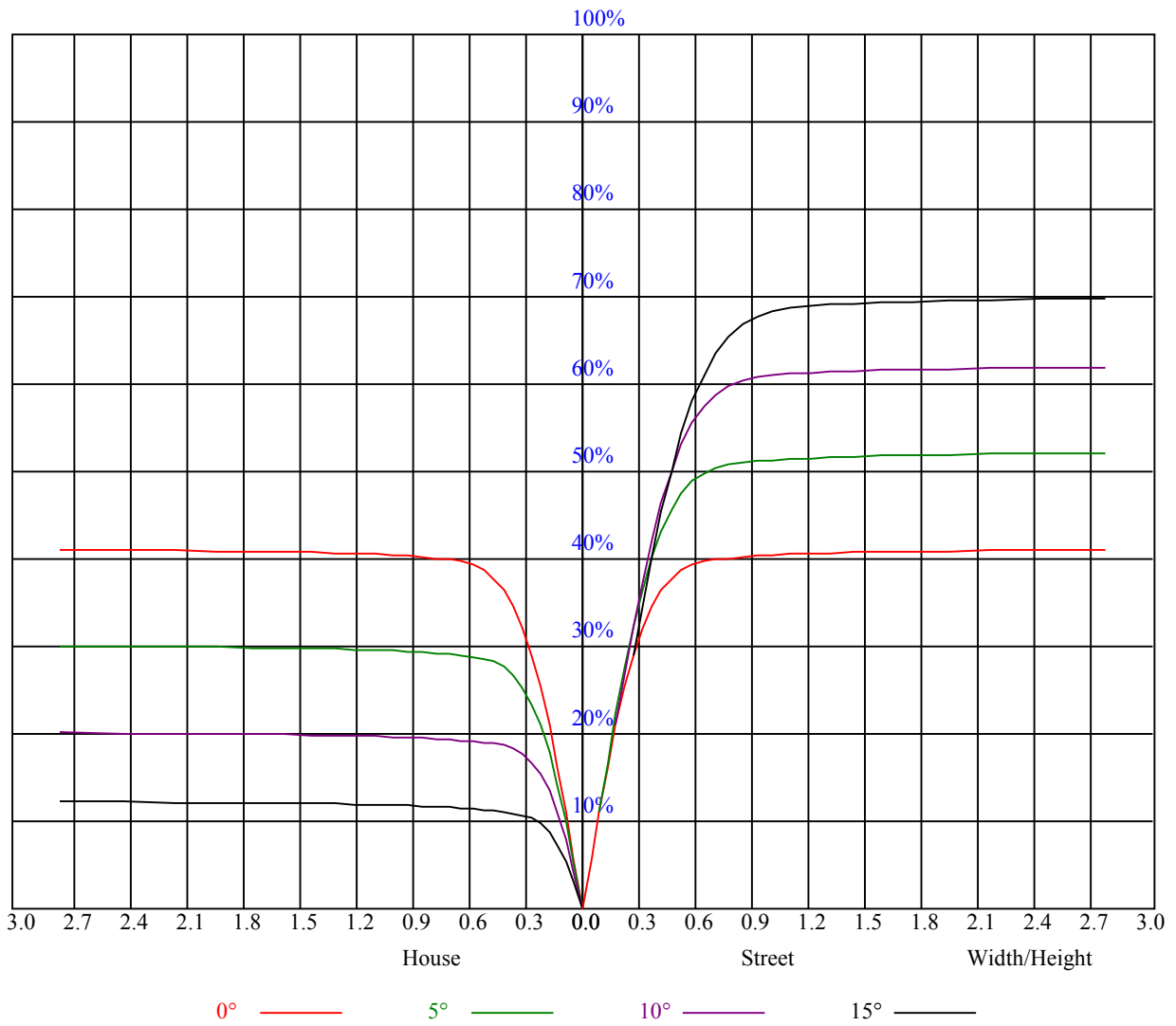
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.99	0.99	0.99	0.97	0.97	0.97	0.93	0.93	0.93	0.89	0.89	0.89	0.85	0.85	0.85	0.84
1	0.93	0.91	0.90	0.91	0.90	0.88	0.88	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.81	0.79
2	0.88	0.85	0.83	0.87	0.84	0.82	0.84	0.82	0.80	0.81	0.80	0.78	0.79	0.78	0.77	0.75
3	0.83	0.80	0.77	0.82	0.79	0.76	0.80	0.77	0.75	0.78	0.76	0.74	0.76	0.74	0.73	0.72
4	0.79	0.75	0.72	0.78	0.75	0.72	0.77	0.74	0.71	0.75	0.72	0.70	0.74	0.71	0.70	0.68
5	0.76	0.72	0.69	0.75	0.71	0.68	0.73	0.70	0.68	0.72	0.69	0.67	0.71	0.68	0.66	0.65
6	0.72	0.68	0.65	0.72	0.68	0.65	0.70	0.67	0.65	0.69	0.66	0.64	0.68	0.66	0.64	0.63
7	0.69	0.65	0.62	0.69	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.61	0.66	0.63	0.61	0.60
8	0.66	0.62	0.60	0.66	0.62	0.59	0.65	0.62	0.59	0.64	0.61	0.59	0.64	0.61	0.59	0.58
9	0.64	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.57	0.62	0.59	0.57	0.61	0.59	0.57	0.56
10	0.62	0.58	0.55	0.61	0.57	0.55	0.61	0.57	0.55	0.60	0.57	0.55	0.59	0.57	0.54	0.54



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	2449.13	2340.00	2014.31	1515.94	1010.81	538.88	288.56	41.68	26.04
45.0	2446.88	2291.63	1920.94	1462.50	909.00	464.06	224.33	38.08	24.58
90.0	2437.88	2263.50	1875.94	1358.44	829.24	432.51	124.31	34.43	23.63
135.0	2446.88	2341.69	2017.13	1559.25	1001.81	577.13	286.88	43.93	26.44
180.0	2449.13	2316.38	1953.56	1514.81	946.24	488.76	171.17	39.38	25.54
225.0	2446.88	2364.75	2045.81	1566.00	1061.44	574.26	222.30	43.54	27.79
270.0	2437.88	2363.63	2112.75	1636.88	1103.63	604.69	286.88	48.21	28.07
315.0	2446.88	2293.88	1971.00	1461.94	929.19	474.58	160.93	38.36	24.86
360.0	2449.13	2340.00	2014.31	1515.94	1010.81	538.88	288.56	41.68	26.04
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	18.39	14.29	11.42	9.00	7.14	6.08	5.23	4.73	4.28
45.0	17.49	13.84	10.80	8.61	6.98	5.96	5.12	4.73	4.22
90.0	17.27	13.56	10.35	8.49	6.81	5.79	5.12	4.67	4.22
135.0	18.96	14.51	11.36	9.06	7.14	6.02	5.29	4.84	4.28
180.0	17.89	14.29	11.14	8.78	7.03	5.91	5.12	4.67	4.28
225.0	19.35	14.85	11.64	9.17	7.31	6.13	5.29	4.78	4.50
270.0	19.86	15.08	11.76	9.45	7.43	6.24	5.40	4.89	4.67
315.0	18.06	14.01	11.08	8.66	7.09	5.96	5.23	4.84	4.78
360.0	18.39	14.29	11.42	9.00	7.14	6.08	5.23	4.73	4.28
C/ γ (°)	90.0								
0.0	3.94								
45.0	4.05								
90.0	4.05								
135.0	3.99								
180.0	3.94								
225.0	4.11								
270.0	4.11								
315.0	3.99								
360.0	3.94								