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Nata

LumCAT: 1-0928-M	
Luminaire: 92.70.124.00	
Report No: 210713-B007	Voltage(V): 38.9100
Test No: 210713-C007	Current(A): 0.2310
LampCAT: Fortimo LED SLM 1201 G7N	Power (W): 8.9880
Lamp flux(lm): 1070.7	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): 823.27
Efficiency(%): 76.89%
Lumens(lm)/Power(W): 91.60
Central intensity(cd): 2628.703
Maximum intensity(cd): 2628.703
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=34.2
 [C90/270]Total=34.2
Field angle(10%Imax): [C0/180]Total=49.3
 [C90/270]Total=49.3
Maximum s/h(1/2): C0_180=0.57 C90_270=0.57
Maximum s/h(1/4): C0_180=0.53 C90_270=0.53
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 76.89%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.612%

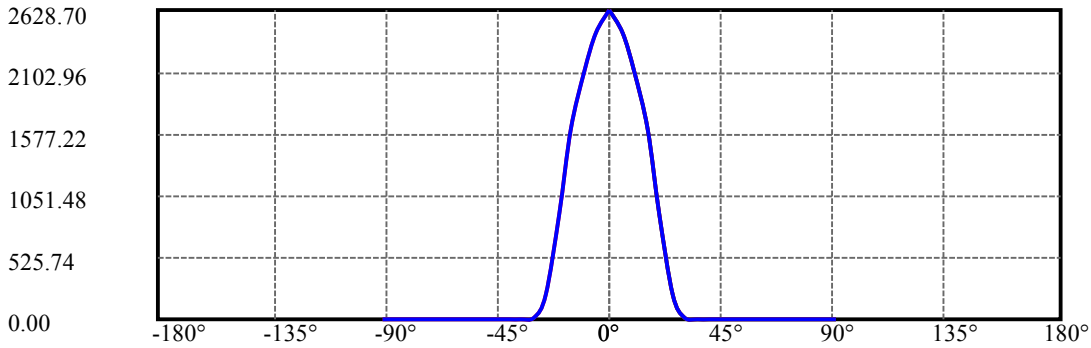
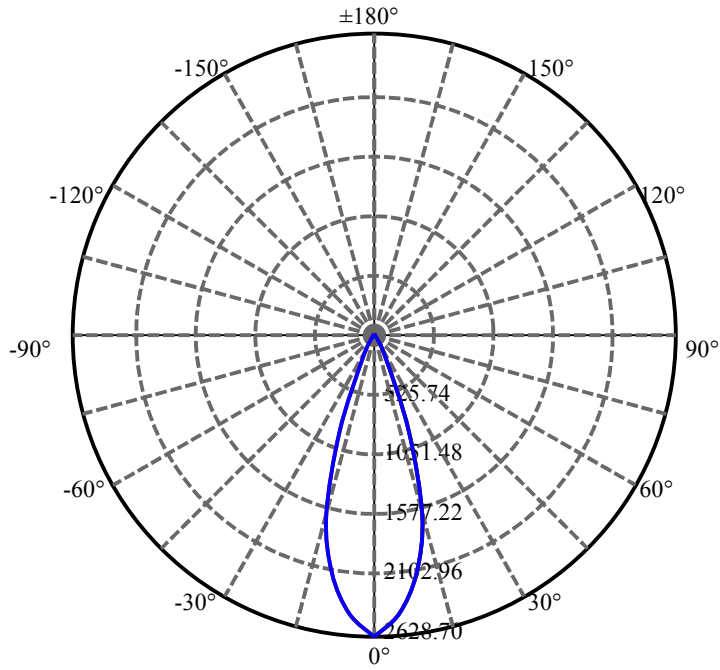
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2628.703	0.000	0	.000%	.000%
5.0	2440.055	60.596	60.596	5.659%	7.360%
10.0	2105.789	162.619	223.215	15.188%	27.113%
15.0	1623.094	221.195	444.41	20.658%	53.981%
20.0	890.184	207.129	651.539	19.345%	79.140%
25.0	219.185	116.352	767.891	10.867%	93.273%
30.0	21.663	30.480	798.371	2.847%	96.975%
35.0	7.425	4.283	802.654	.400%	97.496%
40.0	5.309	2.125	804.779	.198%	97.754%
45.0	4.500	1.816	806.595	.170%	97.974%
50.0	4.113	1.740	808.335	.163%	98.186%
55.0	3.881	1.738	810.074	.162%	98.397%
60.0	3.776	1.770	811.844	.165%	98.612%
65.0	3.698	1.817	813.661	.170%	98.833%
70.0	3.649	1.860	815.521	.174%	99.059%
75.0	3.621	1.900	817.421	.177%	99.289%
80.0	3.607	1.934	819.355	.181%	99.524%
85.0	3.586	1.955	821.31	.183%	99.762%
90.0	3.579	1.962	823.272	.183%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	798.37	74.56%	96.98%
0-40	804.78	75.16%	97.75%
0-60	811.84	75.82%	98.61%
0-90	821.31	76.71%	99.76%
0-120	821.31	76.71%	99.76%
0-180	823.27	76.89%	100.00%
60-90	11.24	1.05%	1.36%
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%
0-20.30	658.62	61.51%	80.00%

ZONAL LUMEN SUMMARY

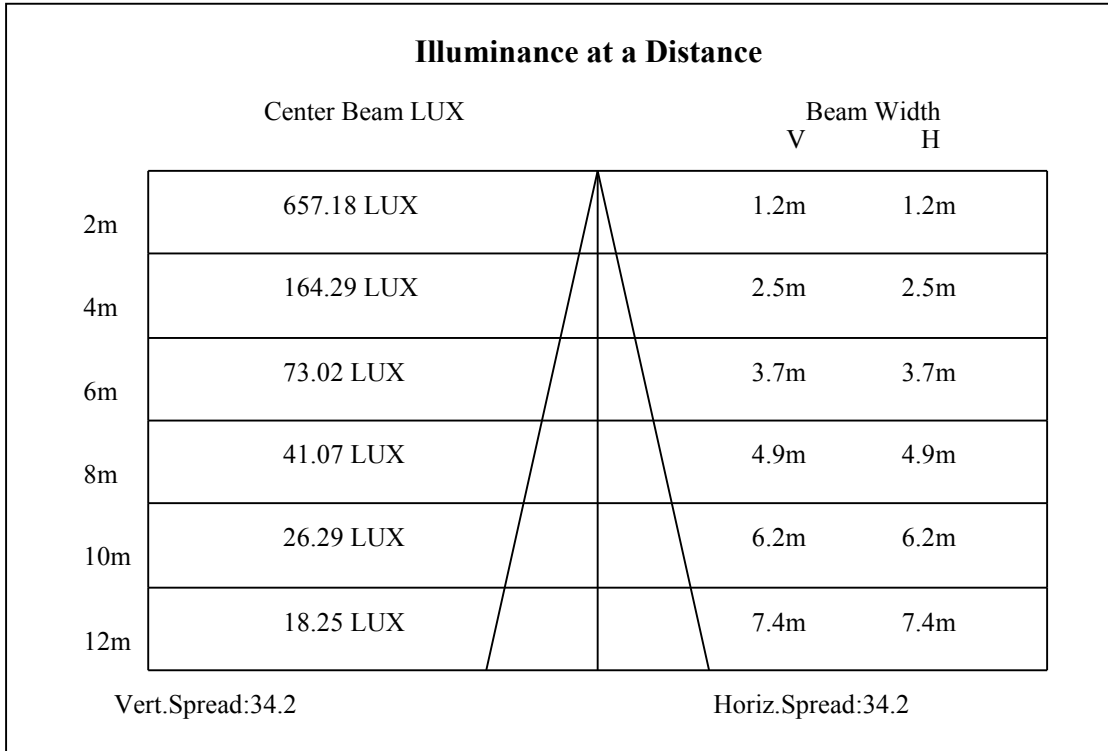
0-10	223.21
10-20	428.32
20-30	146.83
30-40	6.41
40-50	3.56
50-60	3.51
60-70	3.68
70-80	3.83
80-90	1.95
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

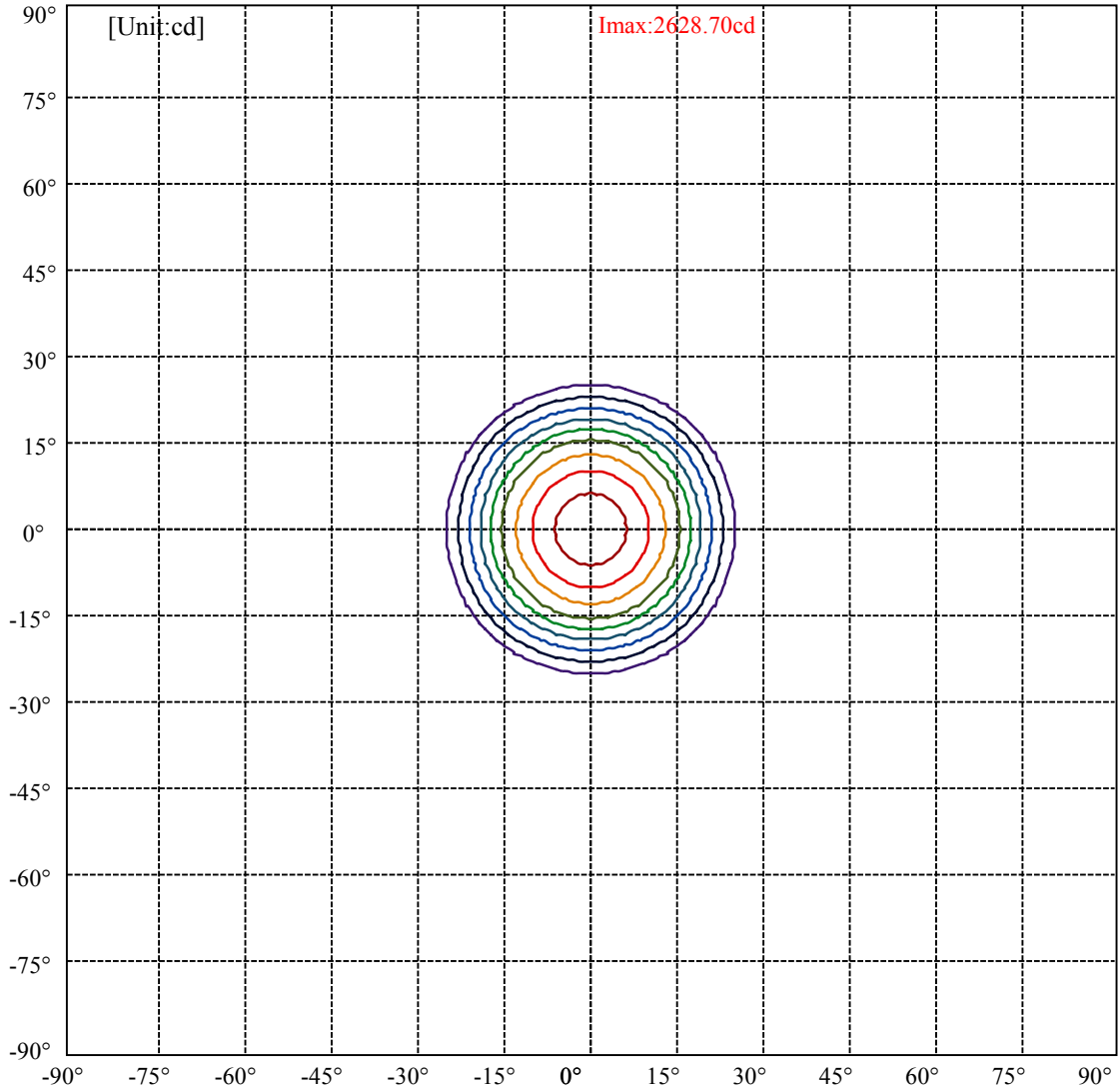


C0(Max): —————
C0/C180: —————
C90/C270: —————

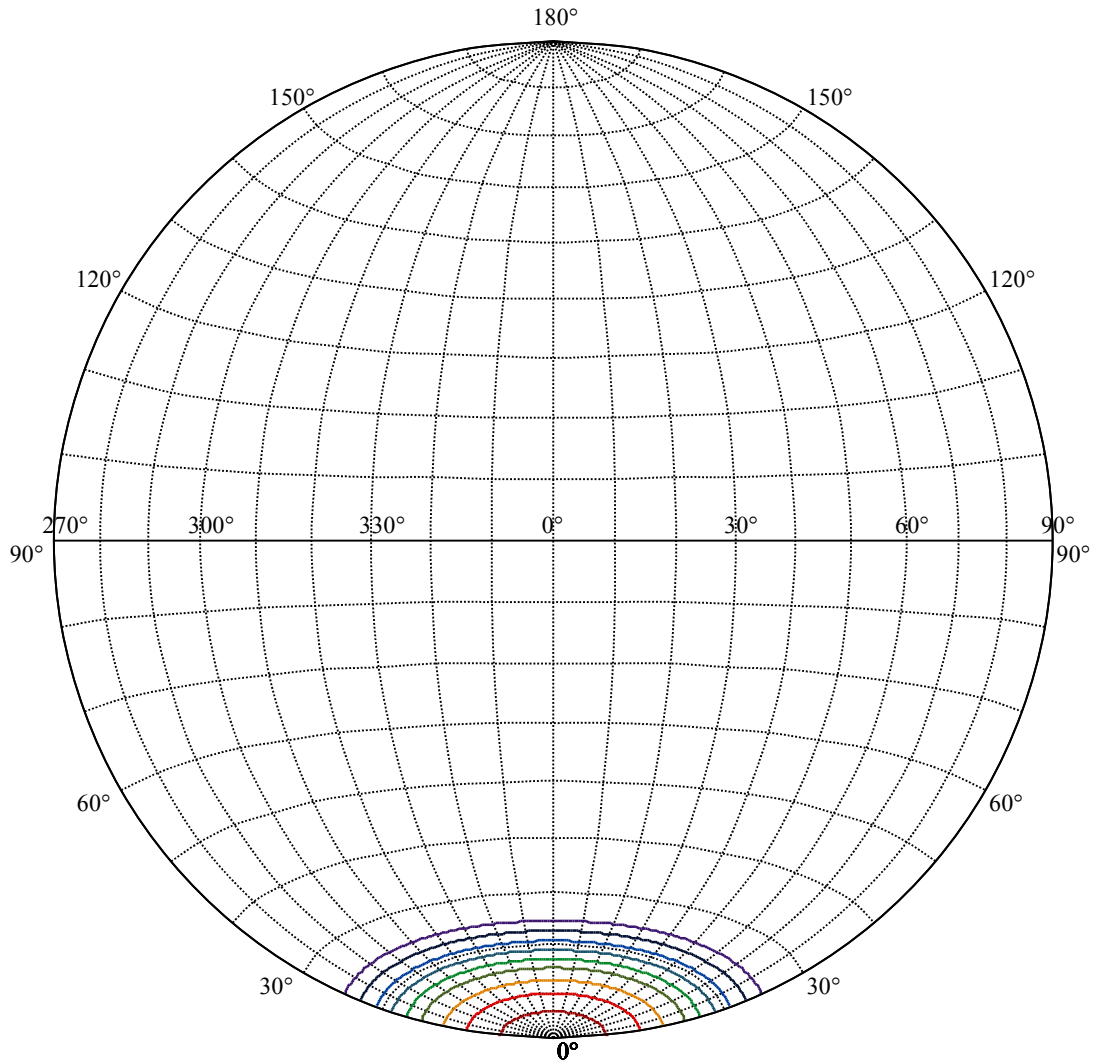
Field angle(10%Imax):C0/180Left:24.7 Right:24.7
:C90/270Left:24.7 Right:24.7

Beam Angle(50%Imax):C0/180Left:17.1 Right:17.1
:C90/270Left:17.1 Right:17.1





(10%Imax) 262.87	—
(20%Imax) 525.741	—
(30%Imax) 788.611	—
(40%Imax) 1051.48	—
(50%Imax) 1314.35	—
(60%Imax) 1577.22	—
(70%Imax) 1840.09	—
(80%Imax) 2102.96	—
(90%Imax) 2365.83	—



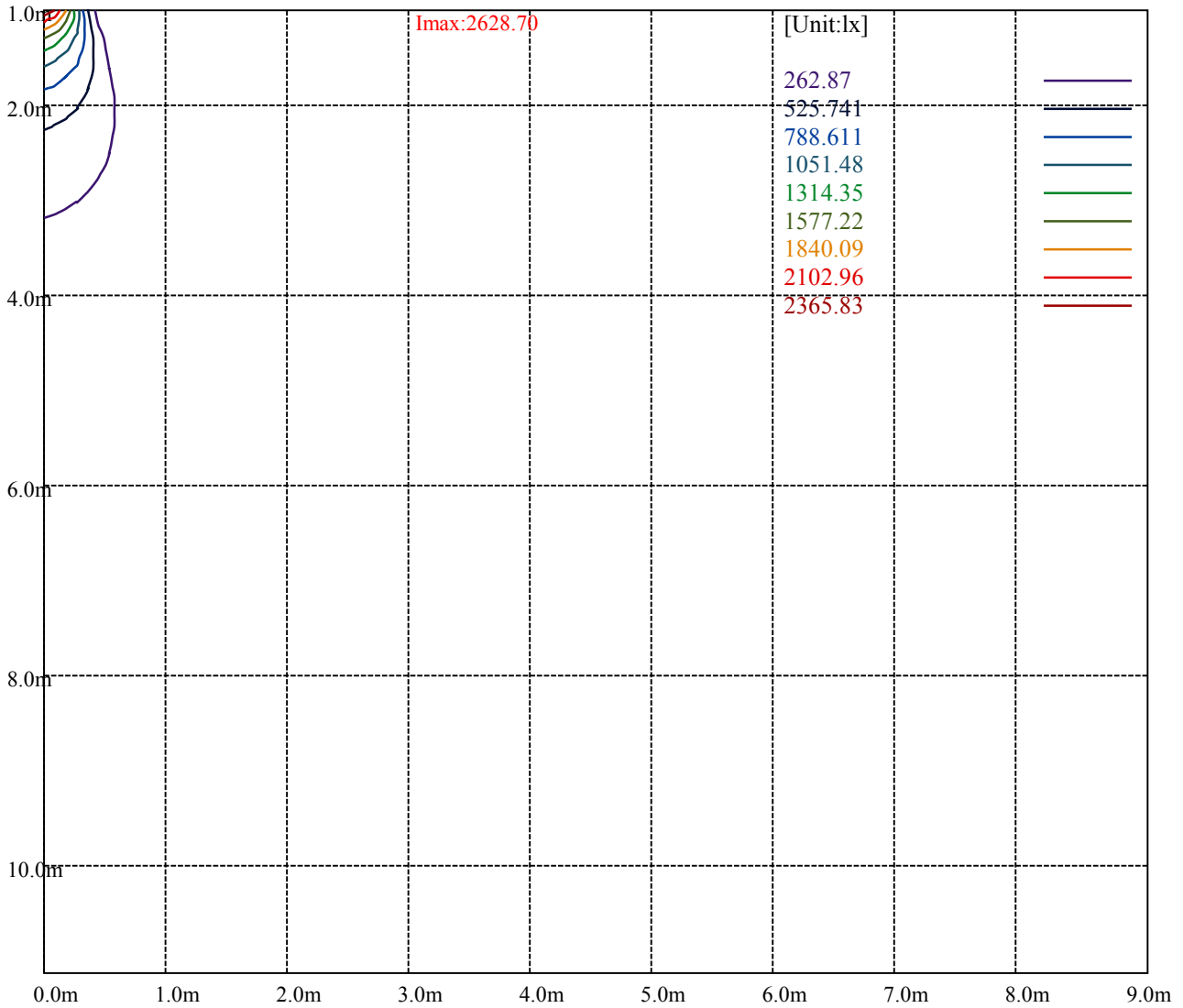
House

[Unit:cd]

Road

Imax:2628.70

(10%Imax) 262.87	—
(20%Imax) 525.741	—
(30%Imax) 788.611	—
(40%Imax) 1051.48	—
(50%Imax) 1314.35	—
(60%Imax) 1577.22	—
(70%Imax) 1840.09	—
(80%Imax) 2102.96	—
(90%Imax) 2365.83	—



Luminance Table

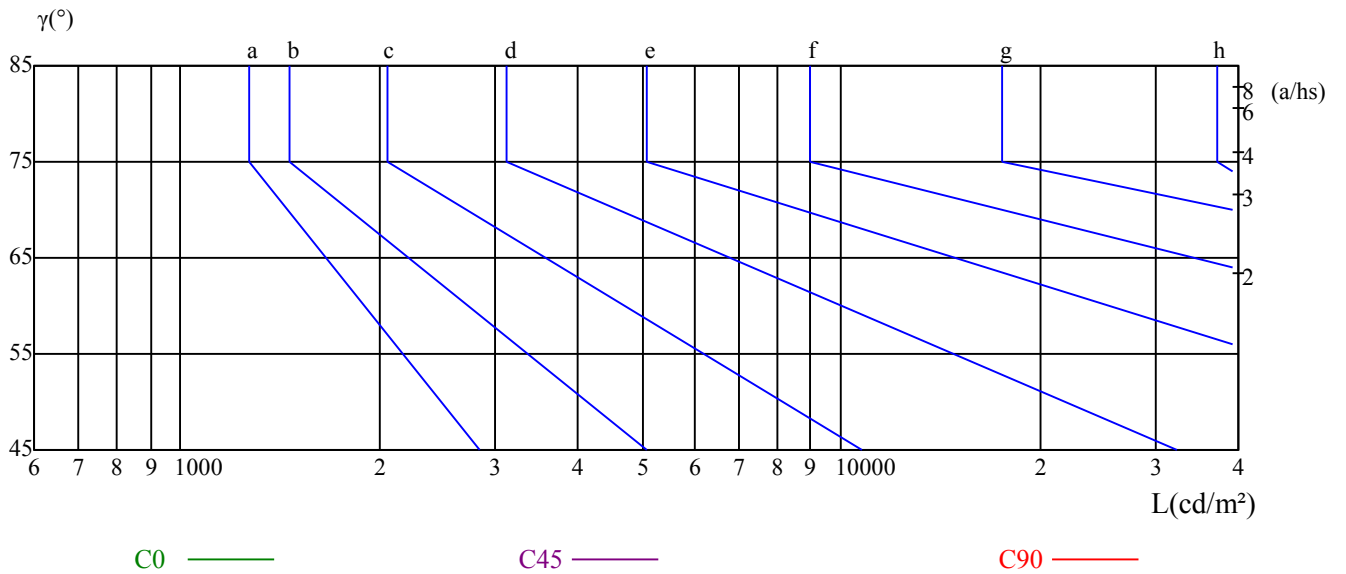
γ	45	50	55	60	65	70	75	80	85
C0	172	163	161	166	175	187	205	230	264
C45	185	178	178	185	198	215	241	277	329
C90	240	239	251	278	317	379	482	675	1145

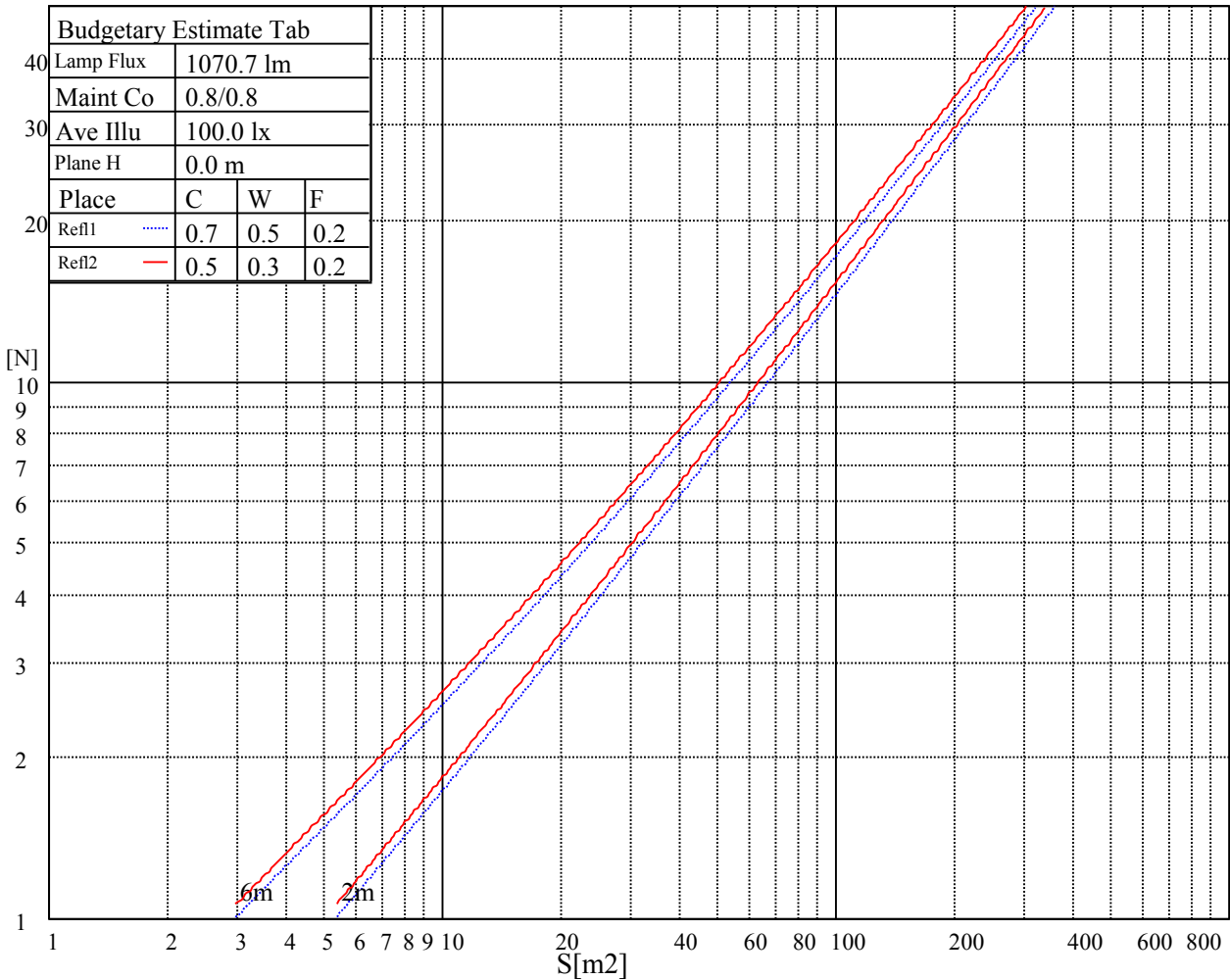
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
341	341	341	545	545	545	1604	1604	1604

Glare Table

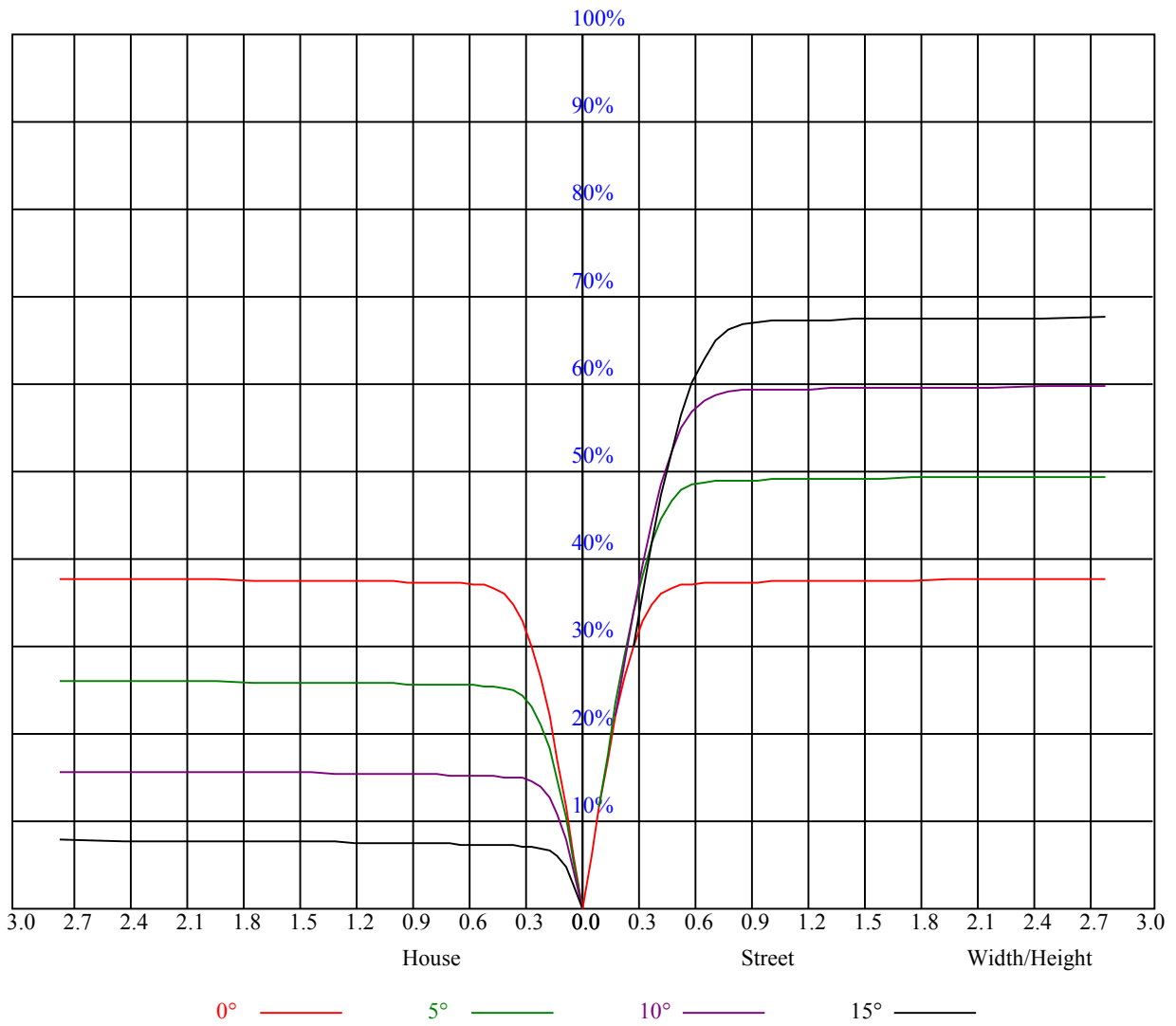
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.92	0.92	0.92	0.89	0.89	0.89	0.85	0.85	0.85	0.82	0.82	0.82	0.78	0.78	0.78	0.77
1	0.86	0.85	0.83	0.85	0.83	0.82	0.82	0.81	0.80	0.79	0.78	0.77	0.76	0.76	0.75	0.74
2	0.82	0.80	0.78	0.81	0.79	0.77	0.78	0.77	0.75	0.76	0.75	0.73	0.74	0.73	0.72	0.71
3	0.78	0.75	0.73	0.77	0.75	0.72	0.75	0.73	0.71	0.74	0.72	0.70	0.72	0.71	0.69	0.68
4	0.75	0.72	0.69	0.74	0.71	0.69	0.73	0.70	0.68	0.71	0.69	0.68	0.70	0.68	0.67	0.66
5	0.72	0.69	0.66	0.72	0.68	0.66	0.70	0.68	0.66	0.69	0.67	0.65	0.68	0.66	0.65	0.64
6	0.70	0.66	0.64	0.69	0.66	0.64	0.68	0.65	0.63	0.67	0.65	0.63	0.66	0.64	0.62	0.62
7	0.67	0.64	0.61	0.67	0.64	0.61	0.66	0.63	0.61	0.65	0.63	0.61	0.64	0.62	0.60	0.60
8	0.65	0.62	0.59	0.65	0.61	0.59	0.64	0.61	0.59	0.63	0.61	0.59	0.62	0.60	0.59	0.58
9	0.63	0.60	0.57	0.63	0.59	0.57	0.62	0.59	0.57	0.61	0.59	0.57	0.61	0.58	0.57	0.56
10	0.61	0.58	0.56	0.61	0.58	0.55	0.60	0.57	0.55	0.60	0.57	0.55	0.59	0.57	0.55	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	2619.00	2492.44	2188.13	1758.38	1050.75	301.50	28.29	8.21	5.57
45.0	2633.06	2440.69	2099.25	1610.44	851.06	290.25	20.03	7.03	5.29
90.0	2629.13	2397.94	2018.25	1504.69	757.69	115.82	15.41	6.86	5.12
135.0	2633.63	2459.81	2121.19	1652.63	924.19	311.06	24.69	7.54	5.40
180.0	2619.00	2382.75	2040.19	1490.63	709.76	112.11	16.76	6.69	5.06
225.0	2633.06	2425.50	2112.75	1646.44	900.17	167.40	23.06	7.59	5.34
270.0	2629.13	2481.19	2166.19	1725.19	1043.44	298.69	25.65	8.44	5.51
315.0	2633.63	2440.13	2100.38	1596.38	884.42	156.66	19.41	7.03	5.18
360.0	2619.00	2492.44	2188.13	1758.38	1050.75	301.50	28.29	8.21	5.57
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	4.56	4.11	3.88	3.77	3.66	3.60	3.60	3.54	3.54
45.0	4.56	4.16	3.94	3.83	3.71	3.71	3.66	3.66	3.66
90.0	4.44	4.11	3.88	3.77	3.71	3.66	3.66	3.60	3.60
135.0	4.56	4.16	3.88	3.77	3.71	3.66	3.60	3.60	3.54
180.0	4.39	4.05	3.83	3.71	3.66	3.60	3.60	3.54	3.54
225.0	4.56	4.16	3.94	3.83	3.77	3.66	3.66	3.66	3.66
270.0	4.56	4.16	3.88	3.77	3.71	3.71	3.66	3.66	3.60
315.0	4.39	3.99	3.83	3.77	3.66	3.60	3.54	3.60	3.54
360.0	4.56	4.11	3.88	3.77	3.66	3.60	3.60	3.54	3.54
C/γ(°)	90.0								
0.0	3.54								
45.0	3.60								
90.0	3.60								
135.0	3.54								
180.0	3.54								
225.0	3.66								
270.0	3.60								
315.0	3.54								
360.0	3.54								