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Nata

LumCAT: 1-0928-M	
Luminaire: 92.70.124.00	
Report No: 210716-B001	Voltage(V): 35.9900
Test No: 210716-C001	Current(A): 0.4510
LampCAT: Fortimo LED SLM 1203 G7N	Power (W): 16.2310
Lamp flux(lm): 1566.1	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): 1148.16
Efficiency(%): 73.31%
Lumens(lm)/Power(W): 70.74
Central intensity(cd): 3498.328
Maximum intensity(cd): 3498.328
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=35.1
 [C90/270]Total=35.1
Field angle(10%Imax): [C0/180]Total=49.4
 [C90/270]Total=49.4
Maximum s/h(1/2): C0_180=0.59 C90_270=0.59
Maximum s/h(1/4): C0_180=0.54 C90_270=0.54
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 73.31%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.581%

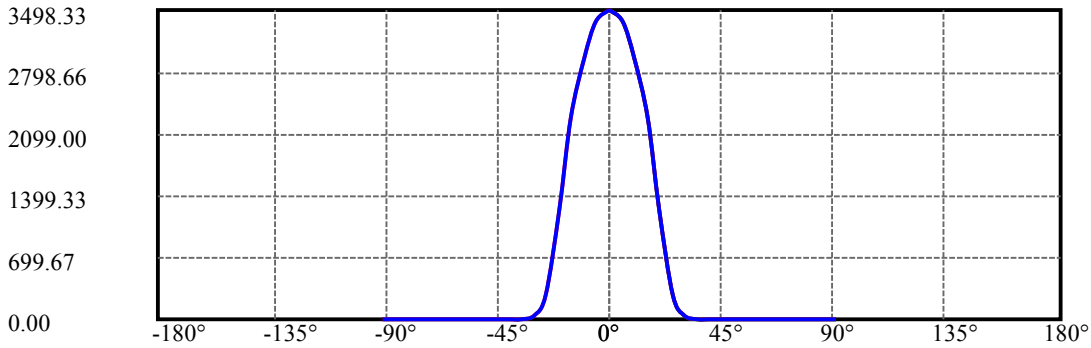
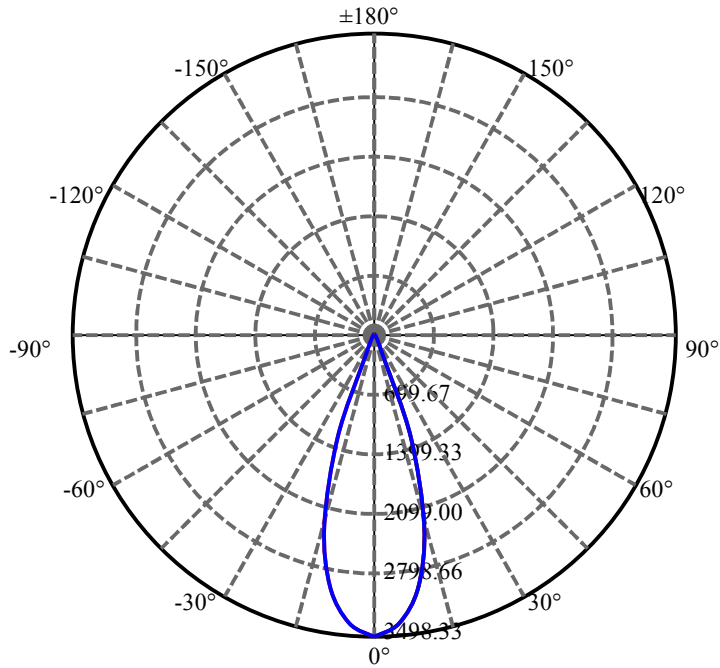
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3498.328	0.000	0	.000%	.000%
5.0	3365.930	82.060	82.06	5.240%	7.147%
10.0	2964.375	226.455	308.515	14.460%	26.870%
15.0	2280.727	311.136	619.651	19.867%	53.969%
20.0	1245.938	290.647	910.298	18.559%	79.283%
25.0	289.090	160.996	1071.294	10.280%	93.305%
30.0	33.736	40.854	1112.148	2.609%	96.863%
35.0	10.856	6.567	1118.714	.419%	97.435%
40.0	7.664	3.090	1121.804	.197%	97.704%
45.0	6.384	2.601	1124.405	.166%	97.931%
50.0	5.850	2.472	1126.877	.158%	98.146%
55.0	5.527	2.474	1129.351	.158%	98.362%
60.0	5.358	2.516	1131.867	.161%	98.581%
65.0	5.259	2.581	1134.448	.165%	98.806%
70.0	5.203	2.649	1137.097	.169%	99.036%
75.0	5.168	2.711	1139.808	.173%	99.272%
80.0	5.147	2.760	1142.568	.176%	99.513%
85.0	5.126	2.791	1145.359	.178%	99.756%
90.0	5.112	2.803	1148.162	.179%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1112.15	71.01%	96.86%
0-40	1121.80	71.63%	97.70%
0-60	1131.87	72.27%	98.58%
0-90	1145.36	73.14%	99.76%
0-120	1145.36	73.14%	99.76%
0-180	1148.16	73.31%	100.00%
60-90	16.01	1.02%	1.39%
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%
0-20.26	918.53	58.65%	80.00%

ZONAL LUMEN SUMMARY

0-10	308.52
10-20	601.78
20-30	201.85
30-40	9.66
40-50	5.07
50-60	4.99
60-70	5.23
70-80	5.47
80-90	2.79
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: ———

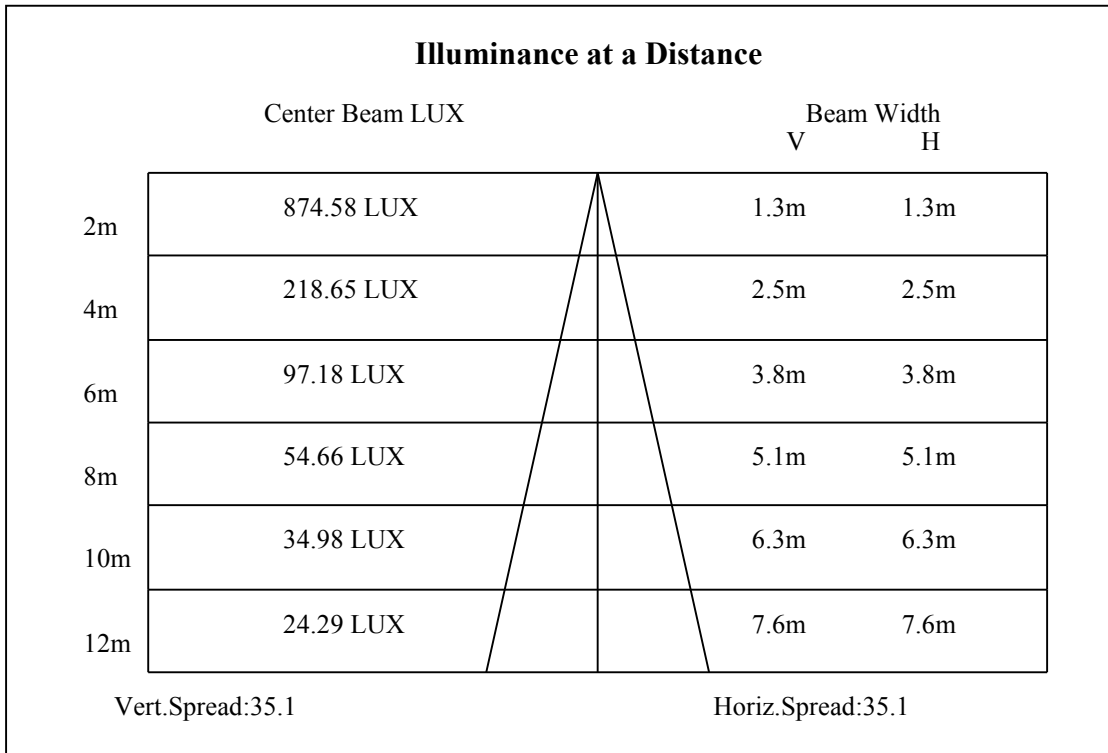
C90/C270: ———

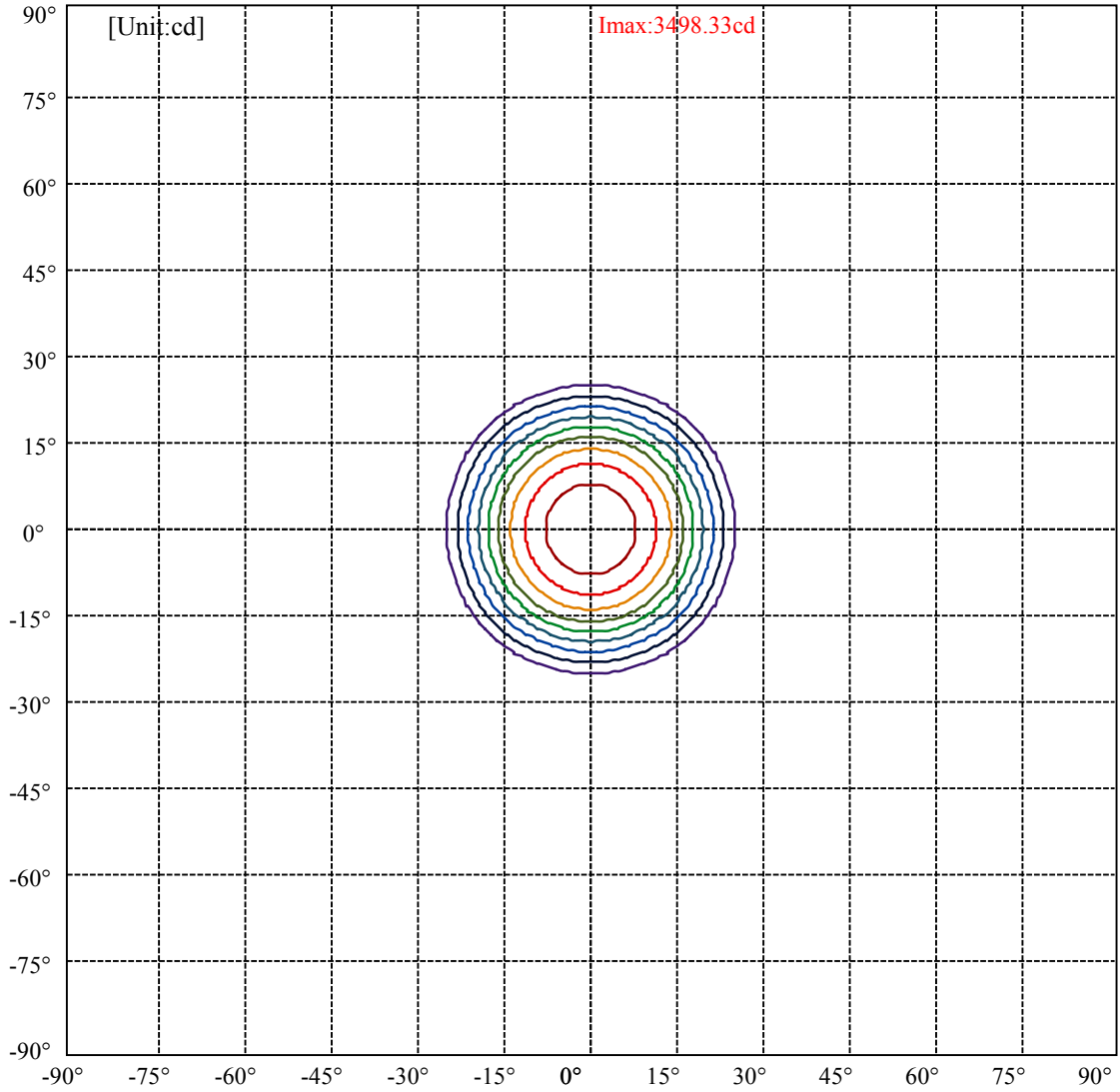
Field angle(10%Imax):C0/180Left:24.7 Right:24.7

:C90/270Left:24.7 Right:24.7

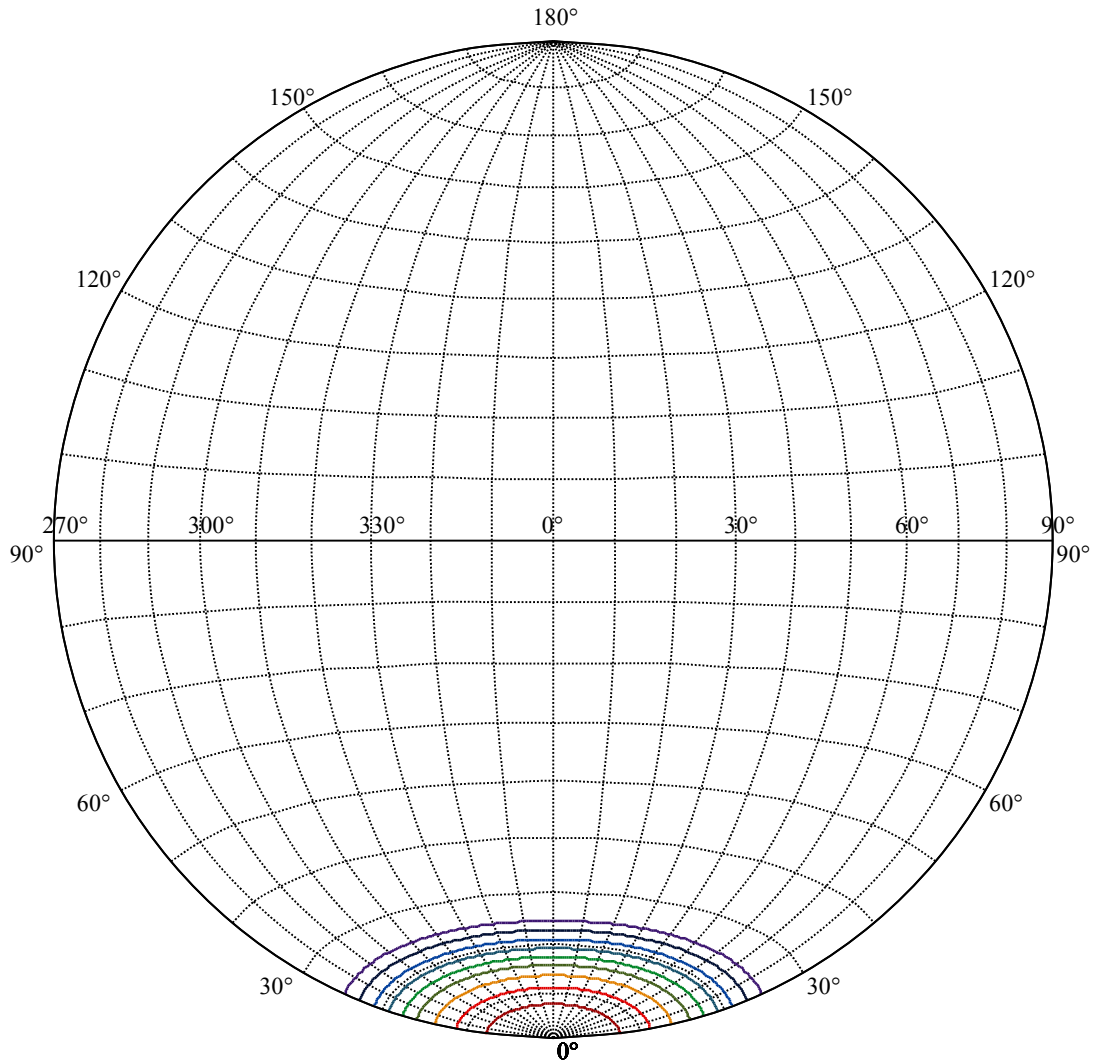
Beam Angle(50%Imax):C0/180Left:17.6 Right:17.6

:C90/270Left:17.6 Right:17.6





(10%Imax) 349.833	—
(20%Imax) 699.666	—
(30%Imax) 1049.5	—
(40%Imax) 1399.33	—
(50%Imax) 1749.16	—
(60%Imax) 2099	—
(70%Imax) 2448.83	—
(80%Imax) 2798.66	—
(90%Imax) 3148.5	—



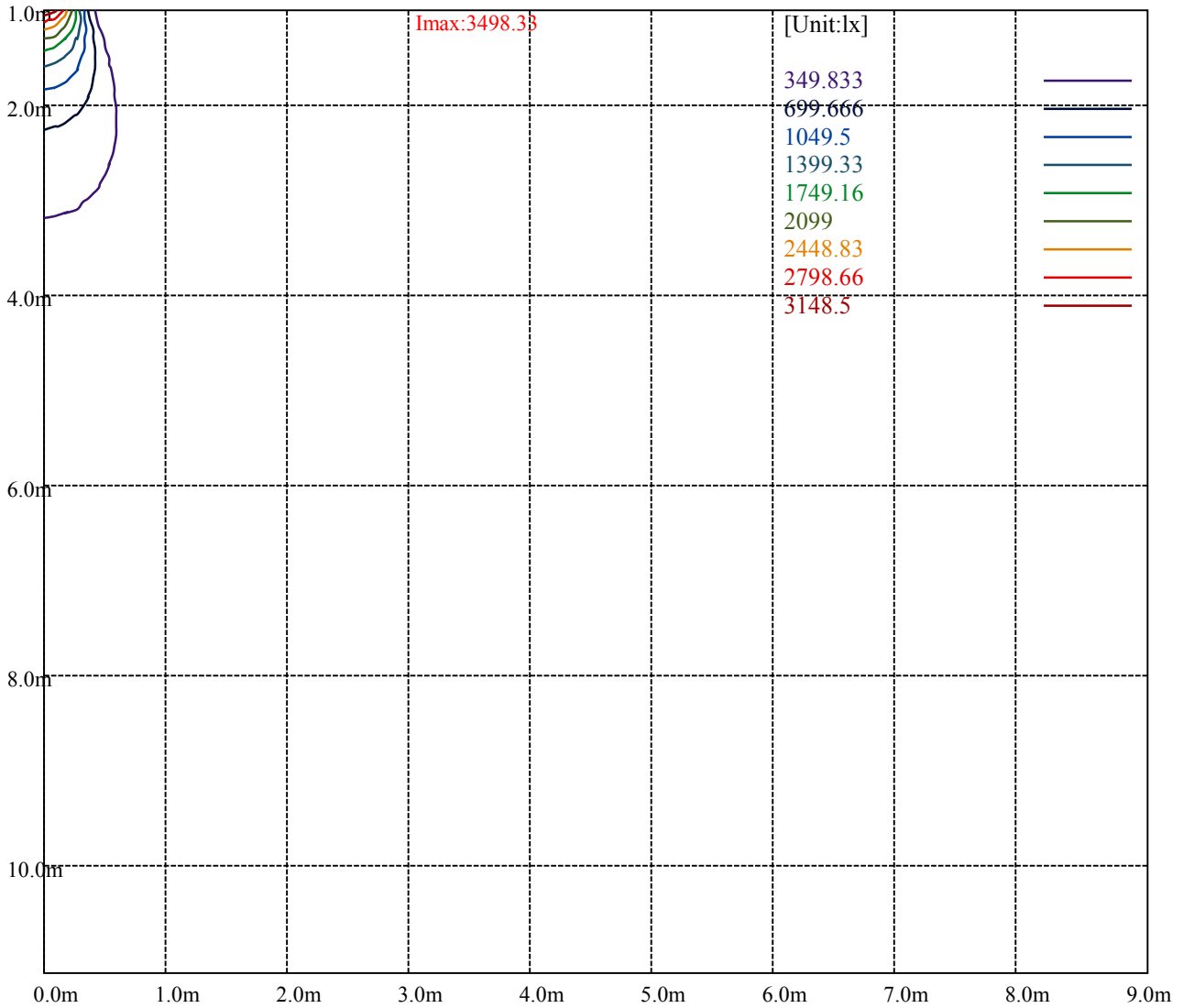
House

[Unit:cd]

Road

Imax:3498.33

(10%Imax)	349.833	—
(20%Imax)	699.666	—
(30%Imax)	1049.5	—
(40%Imax)	1399.33	—
(50%Imax)	1749.16	—
(60%Imax)	2099	—
(70%Imax)	2448.83	—
(80%Imax)	2798.66	—
(90%Imax)	3148.5	—



Luminance Table

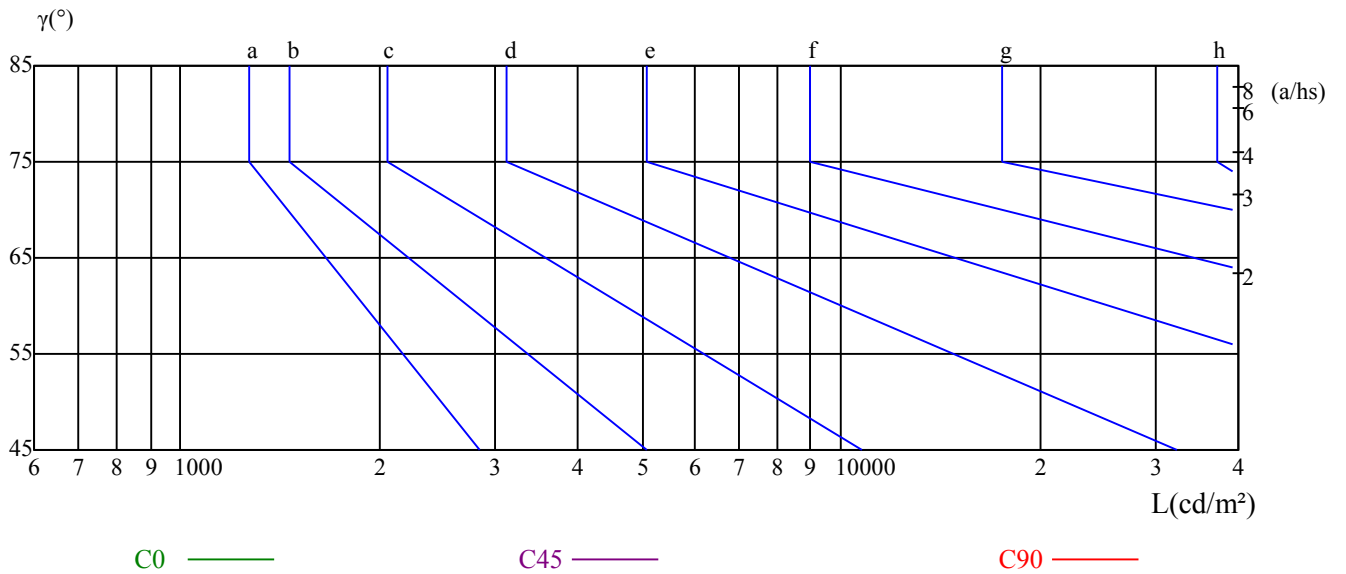
γ	45	50	55	60	65	70	75	80	85
C0	244	232	230	236	248	267	293	328	377
C45	263	253	253	263	281	307	344	395	470
C90	340	341	358	394	451	541	688	964	1637

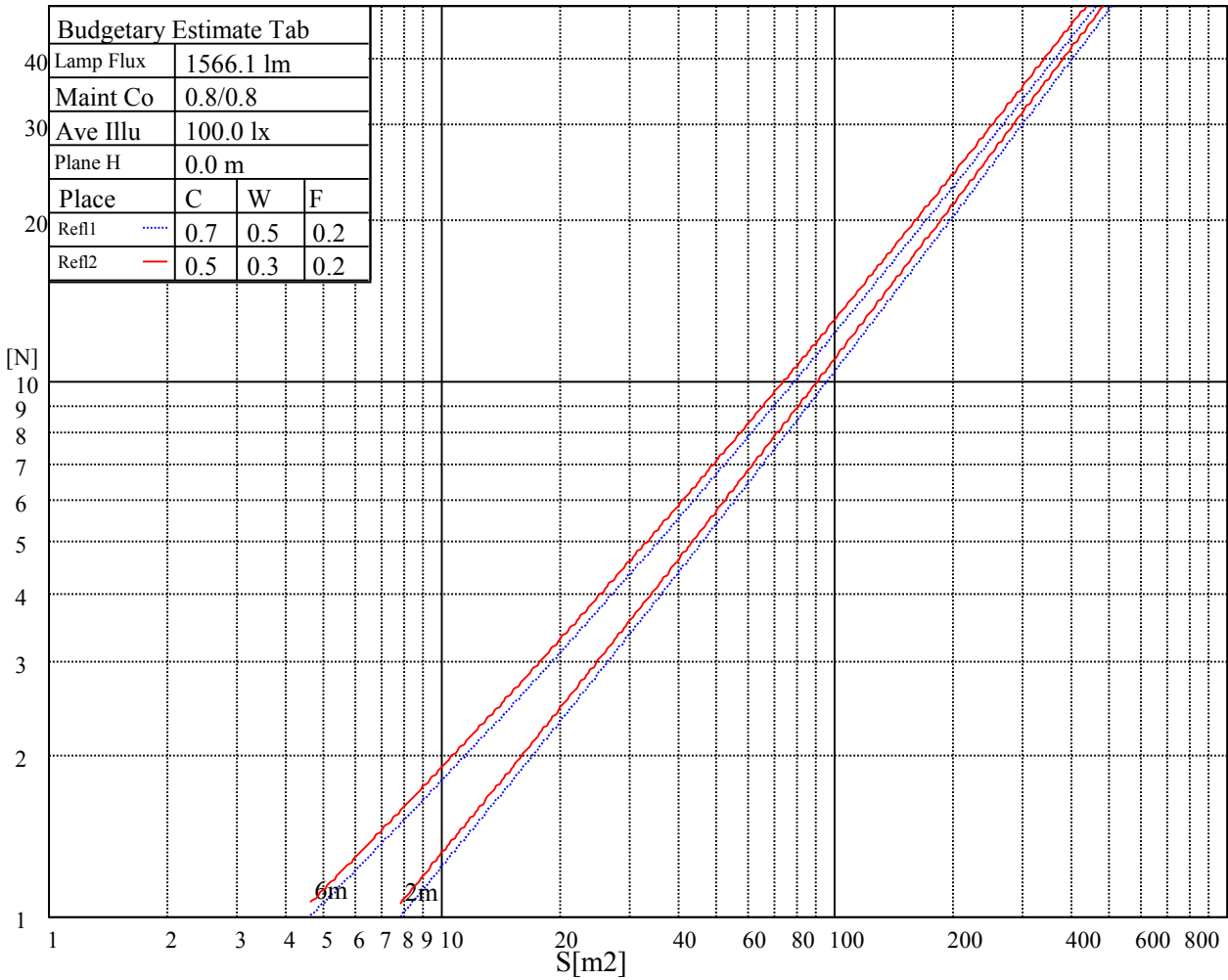
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
485	485	485	778	778	778	2293	2293	2293

Glare Table

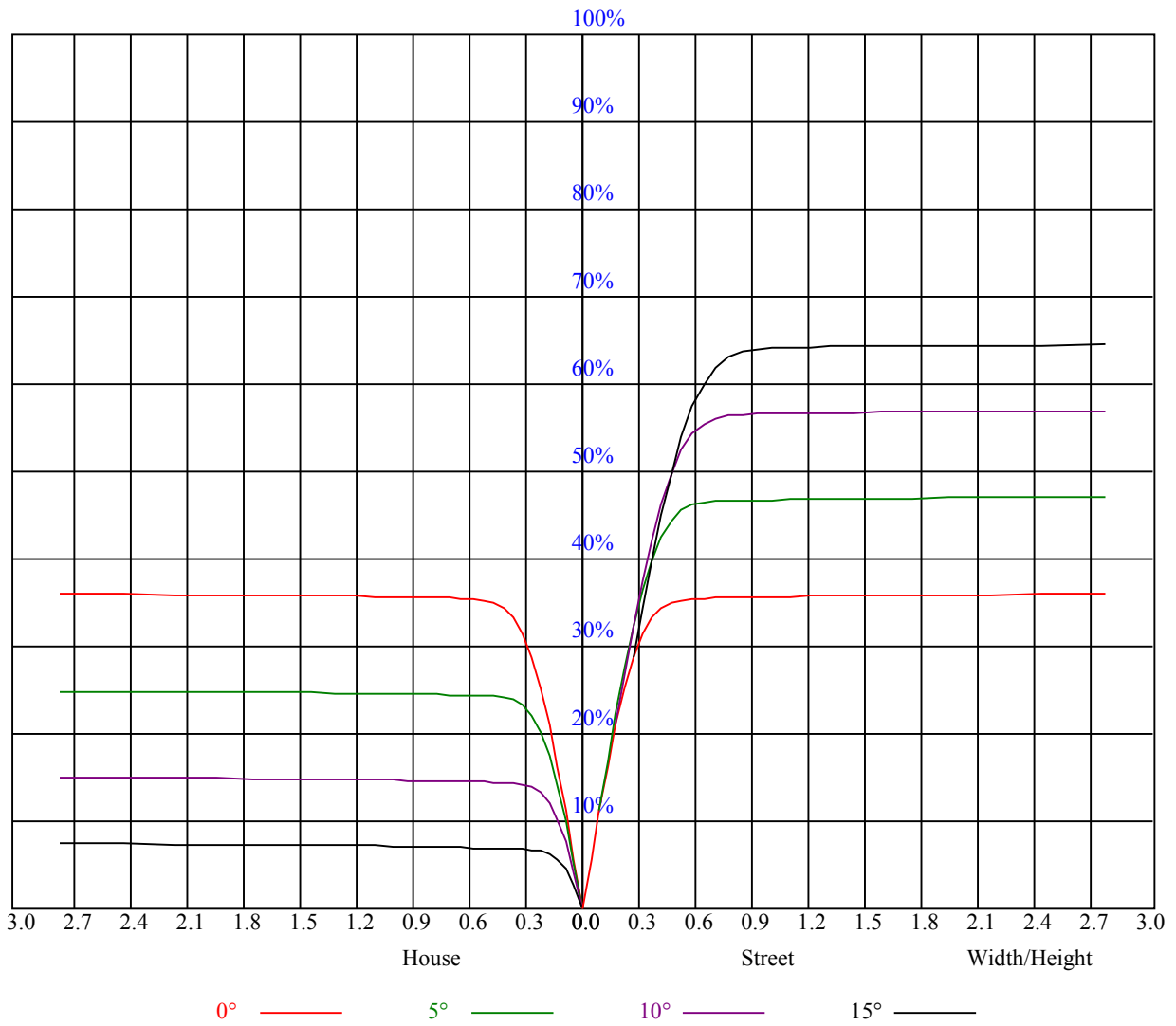
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.87	0.87	0.87	0.85	0.85	0.85	0.81	0.81	0.81	0.78	0.78	0.78	0.75	0.75	0.75	0.73
1	0.82	0.81	0.79	0.81	0.79	0.78	0.78	0.77	0.76	0.75	0.74	0.74	0.73	0.72	0.71	0.70
2	0.78	0.76	0.74	0.77	0.75	0.73	0.75	0.73	0.72	0.73	0.71	0.70	0.71	0.70	0.69	0.67
3	0.75	0.72	0.70	0.74	0.71	0.69	0.72	0.70	0.68	0.70	0.68	0.67	0.69	0.67	0.66	0.65
4	0.72	0.69	0.66	0.71	0.68	0.66	0.69	0.67	0.65	0.68	0.66	0.64	0.67	0.65	0.64	0.63
5	0.69	0.66	0.63	0.68	0.65	0.63	0.67	0.64	0.62	0.66	0.64	0.62	0.65	0.63	0.61	0.61
6	0.66	0.63	0.61	0.66	0.63	0.61	0.65	0.62	0.60	0.64	0.62	0.60	0.63	0.61	0.59	0.59
7	0.64	0.61	0.59	0.64	0.61	0.58	0.63	0.60	0.58	0.62	0.60	0.58	0.61	0.59	0.58	0.57
8	0.62	0.59	0.56	0.61	0.58	0.56	0.61	0.58	0.56	0.60	0.58	0.56	0.60	0.57	0.56	0.55
9	0.60	0.57	0.55	0.60	0.57	0.55	0.59	0.56	0.54	0.58	0.56	0.54	0.58	0.56	0.54	0.53
10	0.58	0.55	0.53	0.58	0.55	0.53	0.57	0.55	0.53	0.57	0.54	0.53	0.56	0.54	0.52	0.52



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	3486.94	3415.50	3045.94	2392.88	1554.19	405.00	42.36	12.71	8.04
45.0	3508.88	3389.06	2993.06	2302.31	1361.81	311.63	36.96	11.42	7.93
90.0	3502.13	3320.44	2910.94	2186.44	1028.59	227.03	30.15	10.13	7.54
135.0	3495.38	3389.63	3022.31	2346.75	1365.19	393.19	36.84	10.63	7.82
180.0	3486.94	3313.69	2862.56	2164.50	1076.96	186.08	26.49	9.51	7.20
225.0	3508.88	3376.69	2946.94	2236.50	1080.11	239.91	29.14	10.52	7.54
270.0	3502.13	3396.94	3006.00	2394.56	1422.56	342.56	38.14	11.42	7.82
315.0	3495.38	3325.50	2927.25	2221.88	1078.09	207.34	29.81	10.52	7.43
360.0	3486.94	3415.50	3045.94	2392.88	1554.19	405.00	42.36	12.71	8.04
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	6.47	5.85	5.51	5.29	5.23	5.12	5.12	5.12	5.06
45.0	6.53	5.96	5.63	5.46	5.34	5.29	5.23	5.18	5.23
90.0	6.36	5.85	5.57	5.40	5.29	5.29	5.23	5.23	5.12
135.0	6.41	5.85	5.51	5.34	5.23	5.18	5.12	5.12	5.06
180.0	6.13	5.74	5.40	5.29	5.18	5.12	5.06	5.06	5.06
225.0	6.36	5.91	5.57	5.40	5.34	5.23	5.23	5.18	5.18
270.0	6.53	5.91	5.57	5.40	5.29	5.29	5.23	5.18	5.23
315.0	6.30	5.74	5.46	5.29	5.18	5.12	5.12	5.12	5.06
360.0	6.47	5.85	5.51	5.29	5.23	5.12	5.12	5.12	5.06
C/γ(°)	90.0								
0.0	5.06								
45.0	5.18								
90.0	5.12								
135.0	5.06								
180.0	5.06								
225.0	5.23								
270.0	5.12								
315.0	5.06								
360.0	5.06								