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Nata

LumCAT: 1-1007-M	
Luminaire: 92.70.124.00	
Report No: 210715-B012	Voltage(V): 36.7900
Test No: 210715-C012	Current(A): 0.3050
LampCAT: Fortimo LED SLM 1202 G7N	Power (W): 11.2200
Lamp flux(lm): 1504.1	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): 1111.72
Efficiency(%): 73.91%
Lumens(lm)/Power(W): 99.08
Central intensity(cd): 3399.609
Maximum intensity(cd): 3399.609
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=50.6
 [C90/270]Total=50.6
Maximum s/h(1/2): C0_180=0.58 C90_270=0.58
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(%): 73.91%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.000%

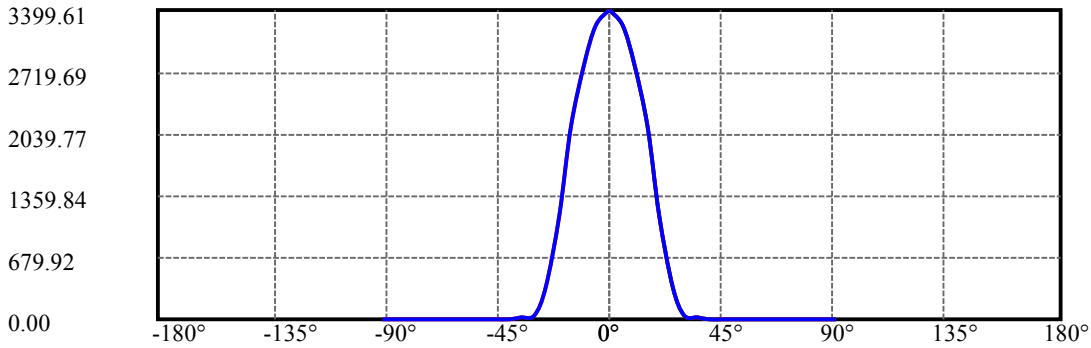
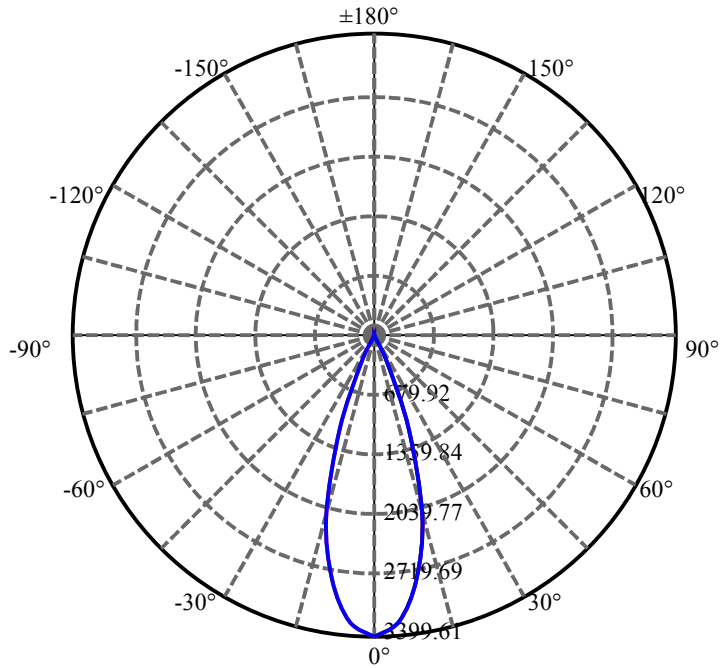
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3399.609	0.000	0	.000%	.000%
5.0	3239.930	79.374	79.374	5.277%	7.140%
10.0	2802.938	216.172	295.546	14.372%	26.585%
15.0	2115.281	291.745	587.292	19.397%	52.827%
20.0	1136.180	267.966	855.258	17.816%	76.931%
25.0	359.459	156.865	1012.123	10.429%	91.041%
30.0	40.451	50.609	1062.731	3.365%	95.594%
35.0	12.705	7.828	1070.559	.520%	96.298%
40.0	10.322	3.842	1074.401	.255%	96.643%
45.0	9.464	3.664	1078.064	.244%	96.973%
50.0	9.113	3.754	1081.818	.250%	97.311%
55.0	8.466	3.822	1085.64	.254%	97.654%
60.0	8.177	3.847	1089.487	.256%	98.000%
65.0	7.523	3.817	1093.304	.254%	98.344%
70.0	7.193	3.726	1097.03	.248%	98.679%
75.0	7.038	3.720	1100.75	.247%	99.013%
80.0	6.799	3.703	1104.453	.246%	99.347%
85.0	6.659	3.657	1108.11	.243%	99.675%
90.0	6.518	3.608	1111.717	.240%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1062.73	70.66%	95.59%
0-40	1074.40	71.43%	96.64%
0-60	1089.49	72.44%	98.00%
0-90	1108.11	73.67%	99.68%
0-120	1108.11	73.67%	99.68%
0-180	1111.72	73.91%	100.00%
60-90	22.47	1.49%	2.02%
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%
0-21.09	889.37	59.13%	80.00%

ZONAL LUMEN SUMMARY

0-10	295.55
10-20	559.71
20-30	207.47
30-40	11.67
40-50	7.42
50-60	7.67
60-70	7.54
70-80	7.42
80-90	3.66
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: ———

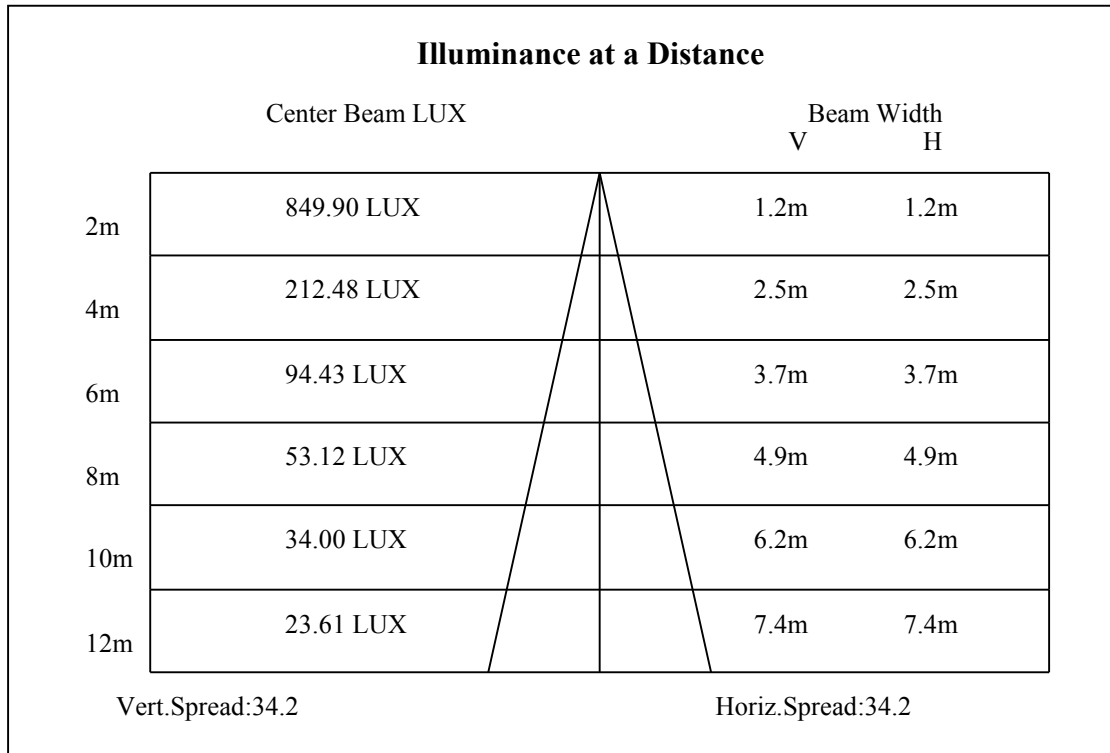
C90/C270: ———

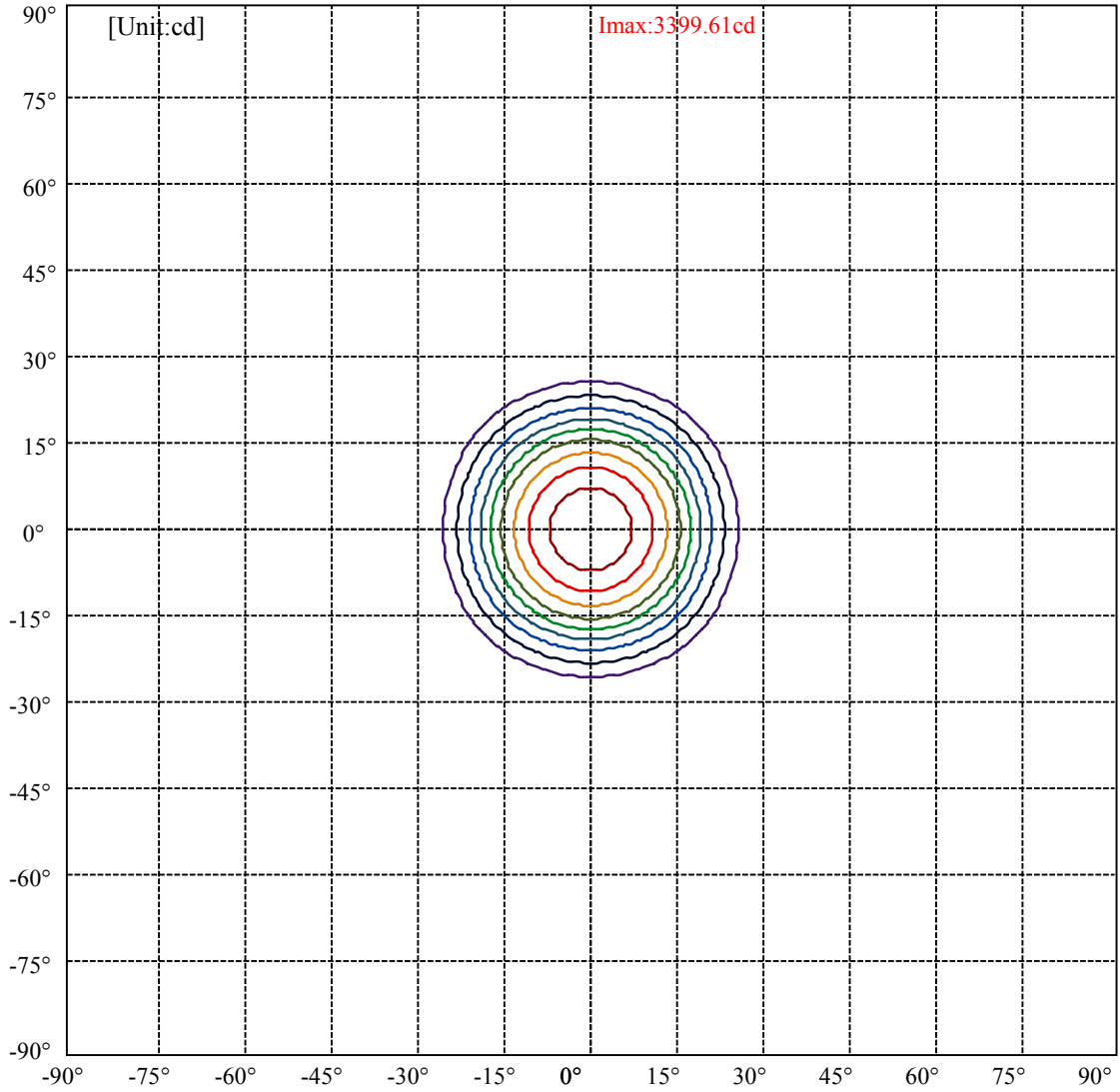
Field angle(10%Imax):C0/180Left:25.3 Right:25.3

:C90/270Left:25.3 Right:25.3

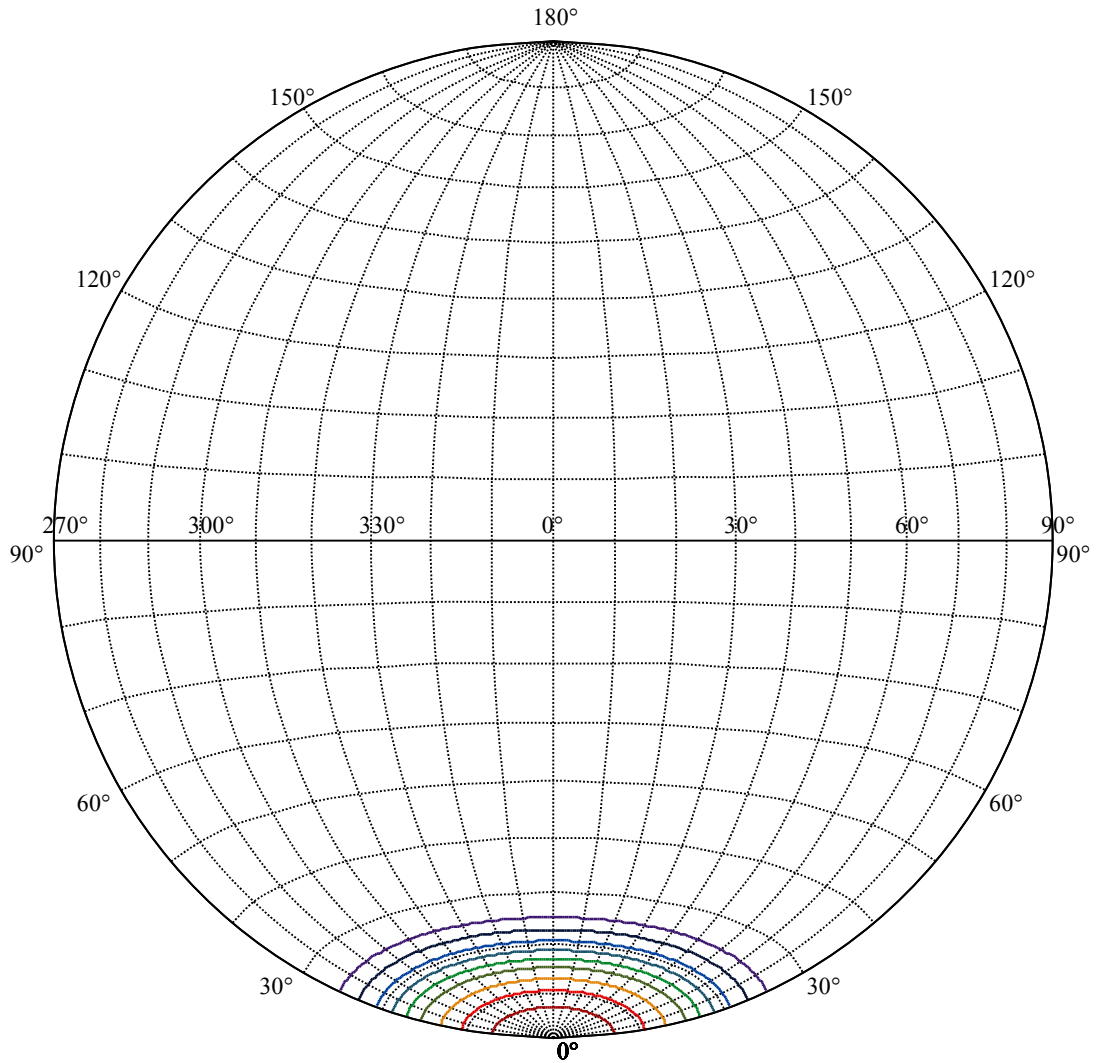
Beam Angle(50%Imax):C0/180Left:17.1 Right:17.1

:C90/270Left:17.1 Right:17.1





(10%Imax) 339.961	—
(20%Imax) 679.922	—
(30%Imax) 1019.88	—
(40%Imax) 1359.84	—
(50%Imax) 1699.8	—
(60%Imax) 2039.77	—
(70%Imax) 2379.73	—
(80%Imax) 2719.69	—
(90%Imax) 3059.65	—



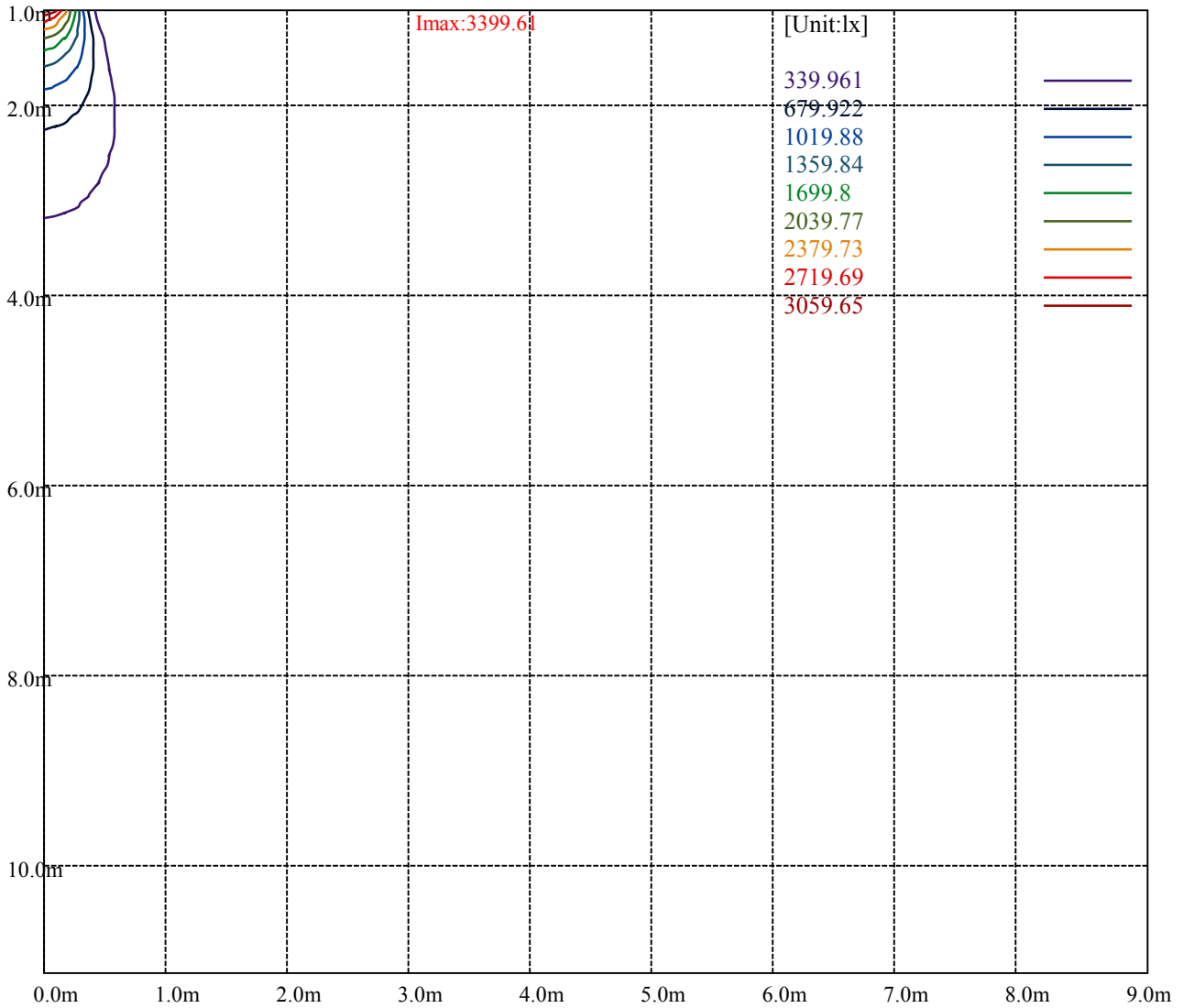
House

[Unit:cd]

Road

Imax:3399.61

(10%Imax) 339.961	—
(20%Imax) 679.922	—
(30%Imax) 1019.88	—
(40%Imax) 1359.84	—
(50%Imax) 1699.8	—
(60%Imax) 2039.77	—
(70%Imax) 2379.73	—
(80%Imax) 2719.69	—
(90%Imax) 3059.65	—



Luminance Table

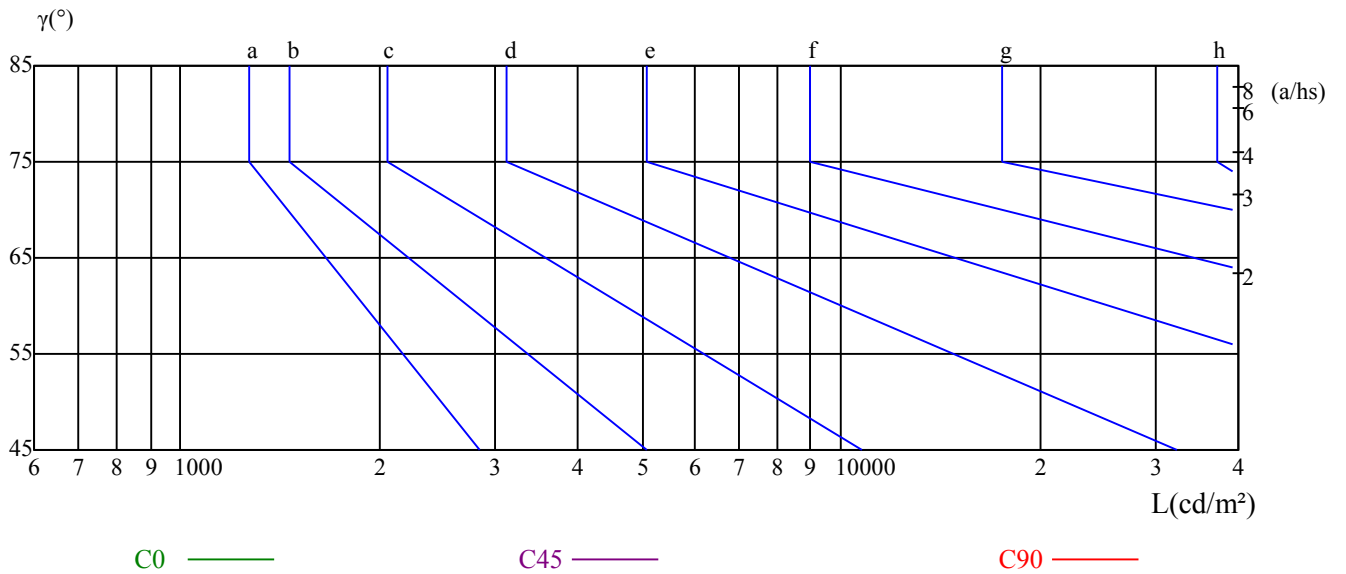
γ	45	50	55	60	65	70	75	80	85
C0	361	361	352	360	355	369	399	434	490
C45	390	394	388	402	402	424	468	522	611
C90	504	531	548	601	645	748	937	1273	2126

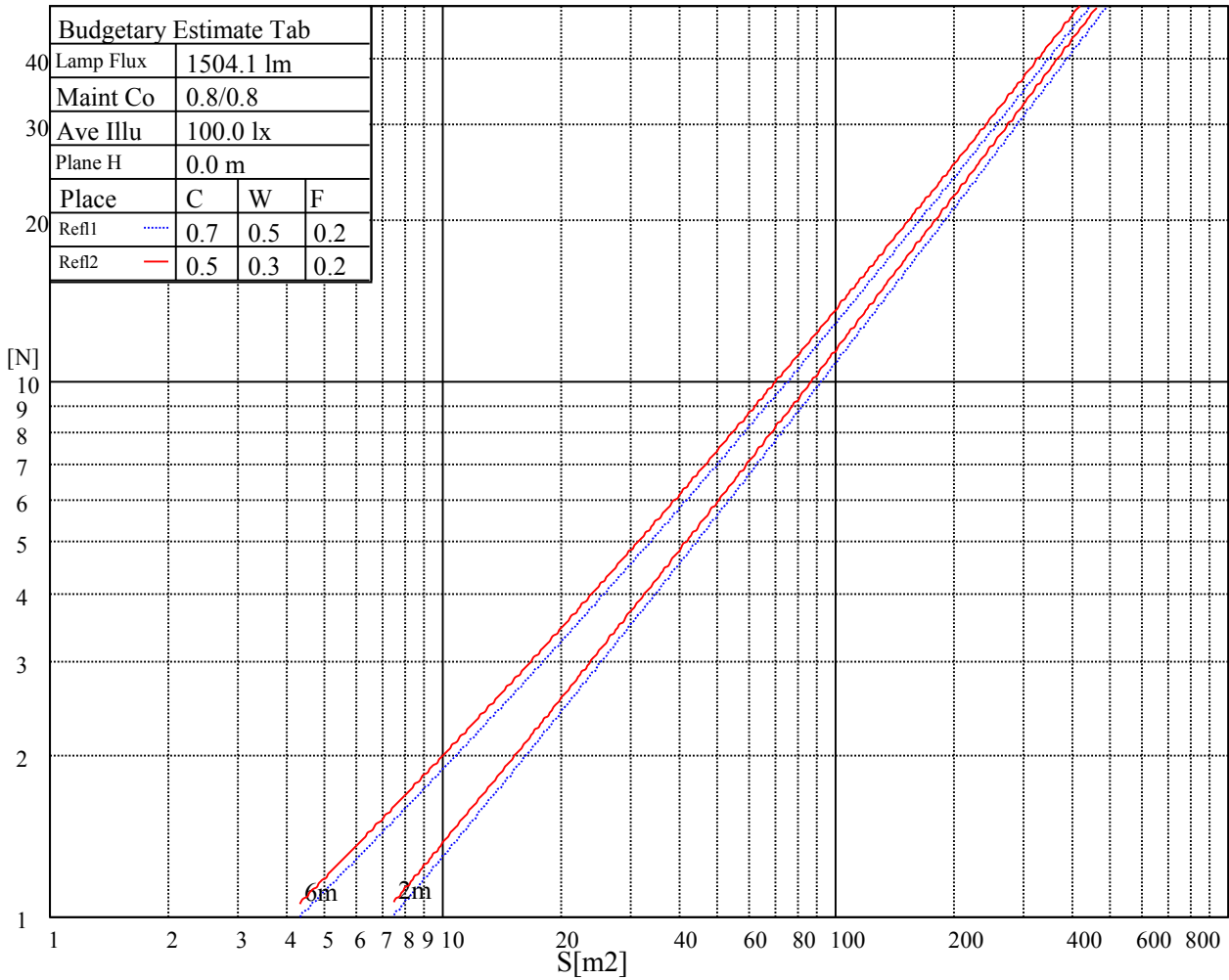
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
694	694	694	1060	1060	1060	2979	2979	2979

Glare Table

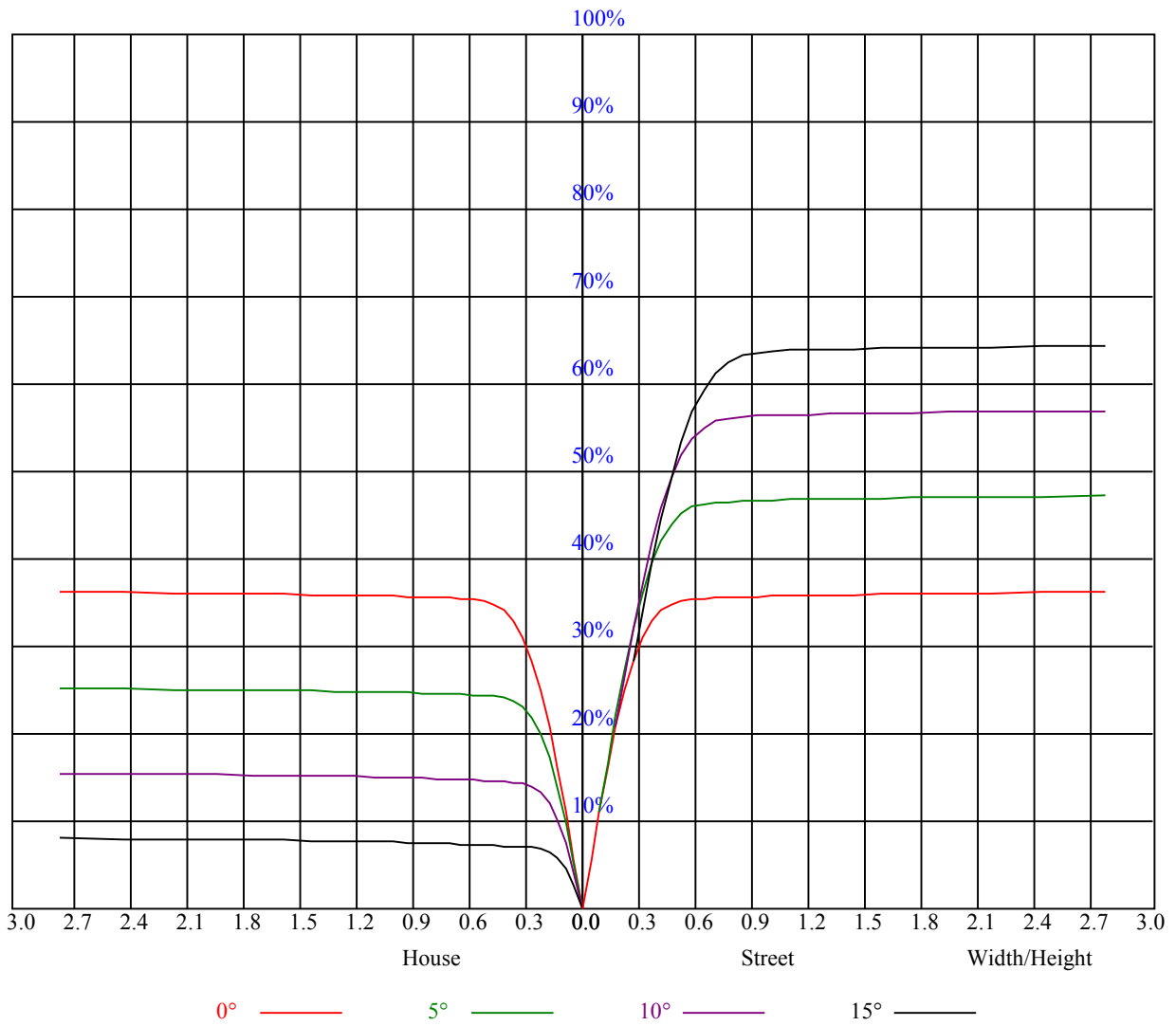
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.88	0.88	0.88	0.86	0.86	0.86	0.82	0.82	0.82	0.79	0.79	0.79	0.75	0.75	0.75	0.74
1	0.83	0.81	0.80	0.81	0.80	0.79	0.78	0.77	0.76	0.76	0.75	0.74	0.73	0.72	0.72	0.70
2	0.79	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	0.68
3	0.75	0.72	0.70	0.74	0.71	0.69	0.72	0.70	0.68	0.70	0.69	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	0.60
6	0.66	0.63	0.61	0.66	0.63	0.60	0.65	0.62	0.60	0.64	0.61	0.60	0.63	0.61	0.59	0.58
7	0.64	0.61	0.58	0.63	0.60	0.58	0.63	0.60	0.58	0.62	0.59	0.58	0.61	0.59	0.57	0.56
8	0.62	0.58	0.56	0.61	0.58	0.56	0.61	0.58	0.56	0.60	0.57	0.56	0.59	0.57	0.55	0.55
9	0.60	0.56	0.54	0.59	0.56	0.54	0.59	0.56	0.54	0.58	0.56	0.54	0.58	0.55	0.54	0.53
10	0.58	0.55	0.53	0.58	0.55	0.52	0.57	0.54	0.52	0.57	0.54	0.52	0.56	0.54	0.52	0.51



Nata 1-1007-M

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	3409.31	3225.94	2777.06	2043.56	1119.94	302.63	30.38	12.71	10.35
45.0	3400.31	3172.50	2670.75	1990.13	1015.31	294.75	25.48	11.53	10.01
90.0	3389.63	3125.81	2647.69	1851.75	921.43	181.46	20.93	11.31	10.01
135.0	3399.19	3268.13	2884.50	2201.06	1303.88	461.81	40.28	12.38	10.46
180.0	3409.31	3273.19	2825.44	2178.56	1111.33	365.68	40.50	12.09	10.01
225.0	3400.31	3321.00	2930.63	2287.69	1070.04	491.46	60.98	13.61	10.52
270.0	3389.63	3325.50	2941.88	2375.44	1472.63	528.75	74.25	15.41	10.86
315.0	3399.19	3207.38	2745.56	1994.06	1074.88	249.13	30.83	12.60	10.35
360.0	3409.31	3225.94	2777.06	2043.56	1119.94	302.63	30.38	12.71	10.35
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	9.45	9.06	8.72	8.55	8.16	7.76	7.48	7.43	7.37
45.0	9.34	9.06	8.72	8.27	7.82	7.54	7.31	7.09	6.98
90.0	9.39	9.06	8.78	8.33	7.99	7.82	7.65	7.14	7.03
135.0	9.62	9.28	9.06	8.66	8.21	7.99	7.71	7.43	7.09
180.0	9.17	8.89	8.55	8.10	7.71	7.43	7.26	7.03	6.92
225.0	9.39	8.94	8.72	8.49	8.16	7.71	7.48	7.43	7.37
270.0	9.73	9.34	6.13	6.13	6.41	5.68	5.85	5.51	5.29
315.0	9.62	9.28	9.06	8.89	5.74	5.63	5.57	5.34	5.23
360.0	9.45	9.06	8.72	8.55	8.16	7.76	7.48	7.43	7.37
C/γ(°)	90.0								
0.0	7.26								
45.0	6.81								
90.0	6.81								
135.0	6.86								
180.0	6.81								
225.0	7.26								
270.0	5.23								
315.0	5.12								
360.0	7.26								