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Nata

LumCAT: 1-1010-M	
Luminaire: 92.70.124.00	
Report No: 210715-B008	Voltage(V): 36.8600
Test No: 210715-C008	Current(A): 0.3050
LampCAT: Fortimo LED SLM 1202 G7N	Power (W): 11.2420
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): 1073.94
Efficiency(%): 71.40%
Lumens(lm)/Power(W): 95.53
Central intensity(cd): 3287.531
Maximum intensity(cd): 3287.531
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=35.0
 [C90/270]Total=35.0
Field angle(10%Imax): [C0/180]Total=49.3
 [C90/270]Total=49.3
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(%): 71.40%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.507%

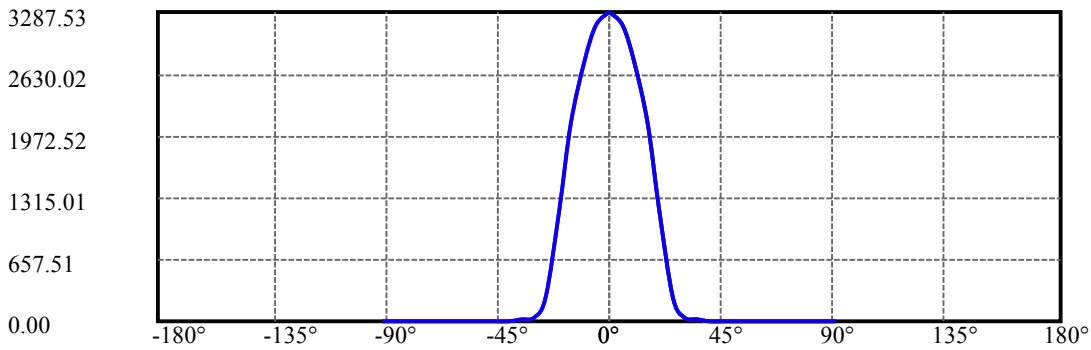
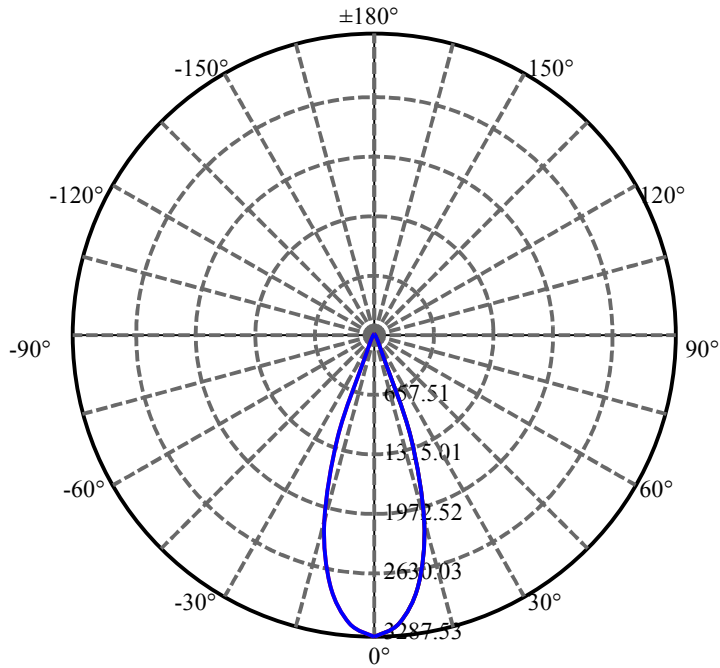
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3287.531	0.000	0	.000%	.000%
5.0	3149.367	76.951	76.951	5.116%	7.165%
10.0	2757.375	211.303	288.254	14.049%	26.841%
15.0	2109.305	288.688	576.942	19.194%	53.722%
20.0	1179.584	271.051	847.993	18.021%	78.961%
25.0	267.863	151.810	999.803	10.093%	93.097%
30.0	35.416	38.380	1038.183	2.552%	96.671%
35.0	10.737	6.796	1044.98	.452%	97.303%
40.0	7.256	3.002	1047.982	.200%	97.583%
45.0	6.237	2.498	1050.48	.166%	97.816%
50.0	5.794	2.431	1052.911	.162%	98.042%
55.0	5.541	2.464	1055.375	.164%	98.271%
60.0	5.386	2.526	1057.901	.168%	98.507%
65.0	5.295	2.596	1060.498	.173%	98.748%
70.0	5.245	2.669	1063.166	.177%	98.997%
75.0	5.217	2.735	1065.901	.182%	99.252%
80.0	5.013	2.737	1068.638	.182%	99.506%
85.0	4.838	2.677	1071.315	.178%	99.756%
90.0	4.746	2.624	1073.939	.174%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1038.18	69.02%	96.67%
0-40	1047.98	69.68%	97.58%
0-60	1057.90	70.34%	98.51%
0-90	1071.32	71.23%	99.76%
0-120	1071.32	71.23%	99.76%
0-180	1073.94	71.40%	100.00%
60-90	15.94	1.06%	1.48%
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%
0-20.37	859.15	57.12%	80.00%

ZONAL LUMEN SUMMARY

0-10	288.25
10-20	559.74
20-30	190.19
30-40	9.80
40-50	4.93
50-60	4.99
60-70	5.27
70-80	5.47
80-90	2.68
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



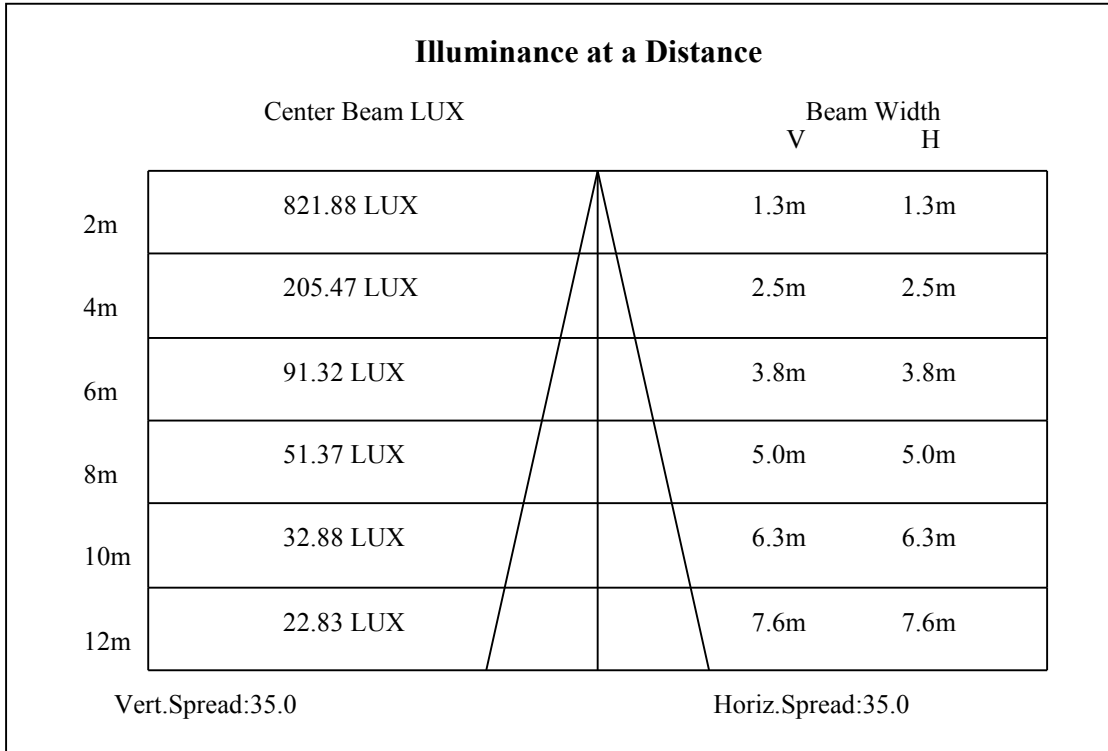
C0(Max): —————

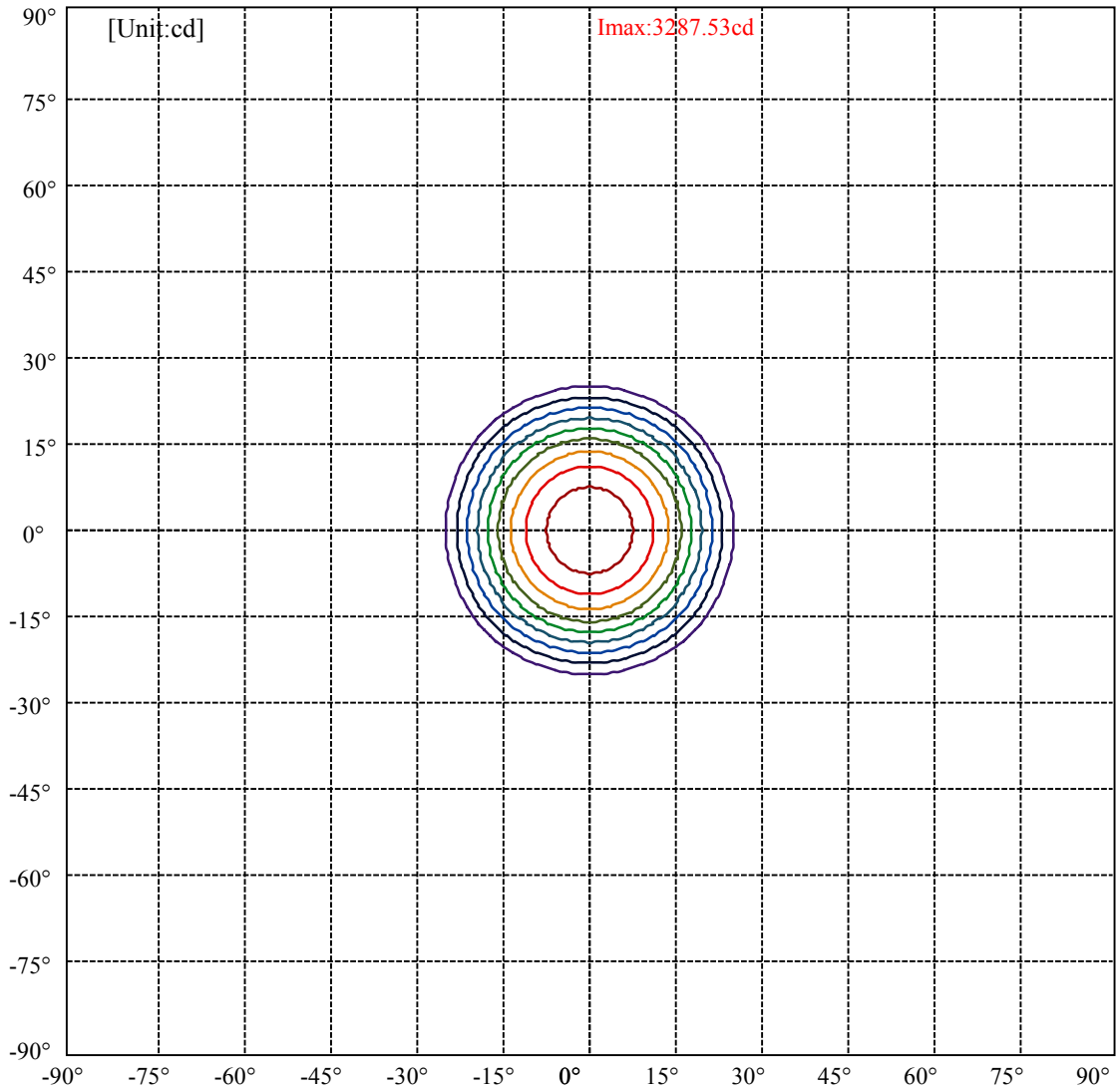
C0/C180: —————

C90/C270: —————

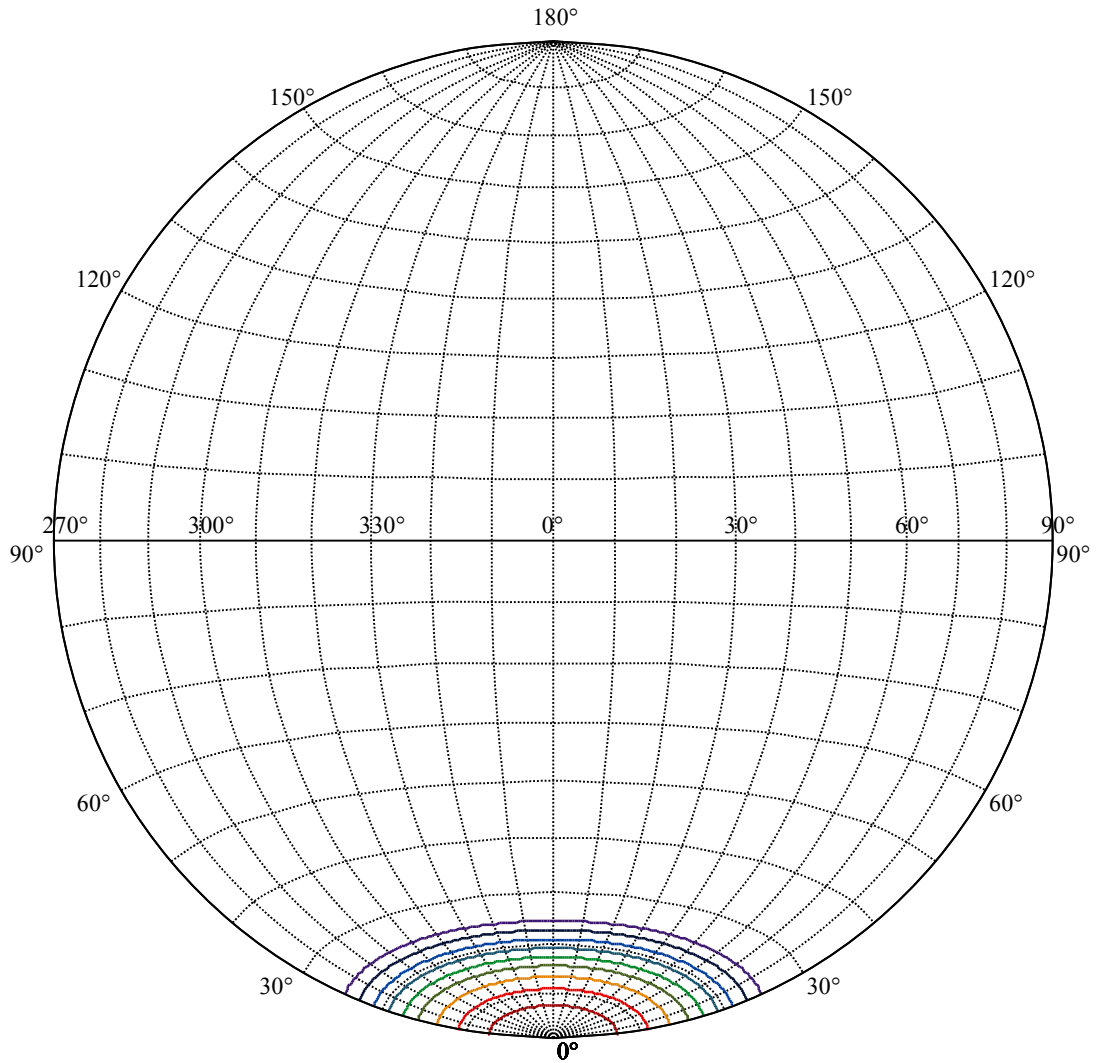
Field angle(10%Imax):C0/180Left:24.7 Right:24.7
:C90/270Left:24.7 Right:24.7

Beam Angle(50%Imax):C0/180Left:17.5 Right:17.5
:C90/270Left:17.5 Right:17.5





(10%Imax) 328.753	—
(20%Imax) 657.506	—
(30%Imax) 986.259	—
(40%Imax) 1315.01	—
(50%Imax) 1643.77	—
(60%Imax) 1972.52	—
(70%Imax) 2301.27	—
(80%Imax) 2630.02	—
(90%Imax) 2958.78	—



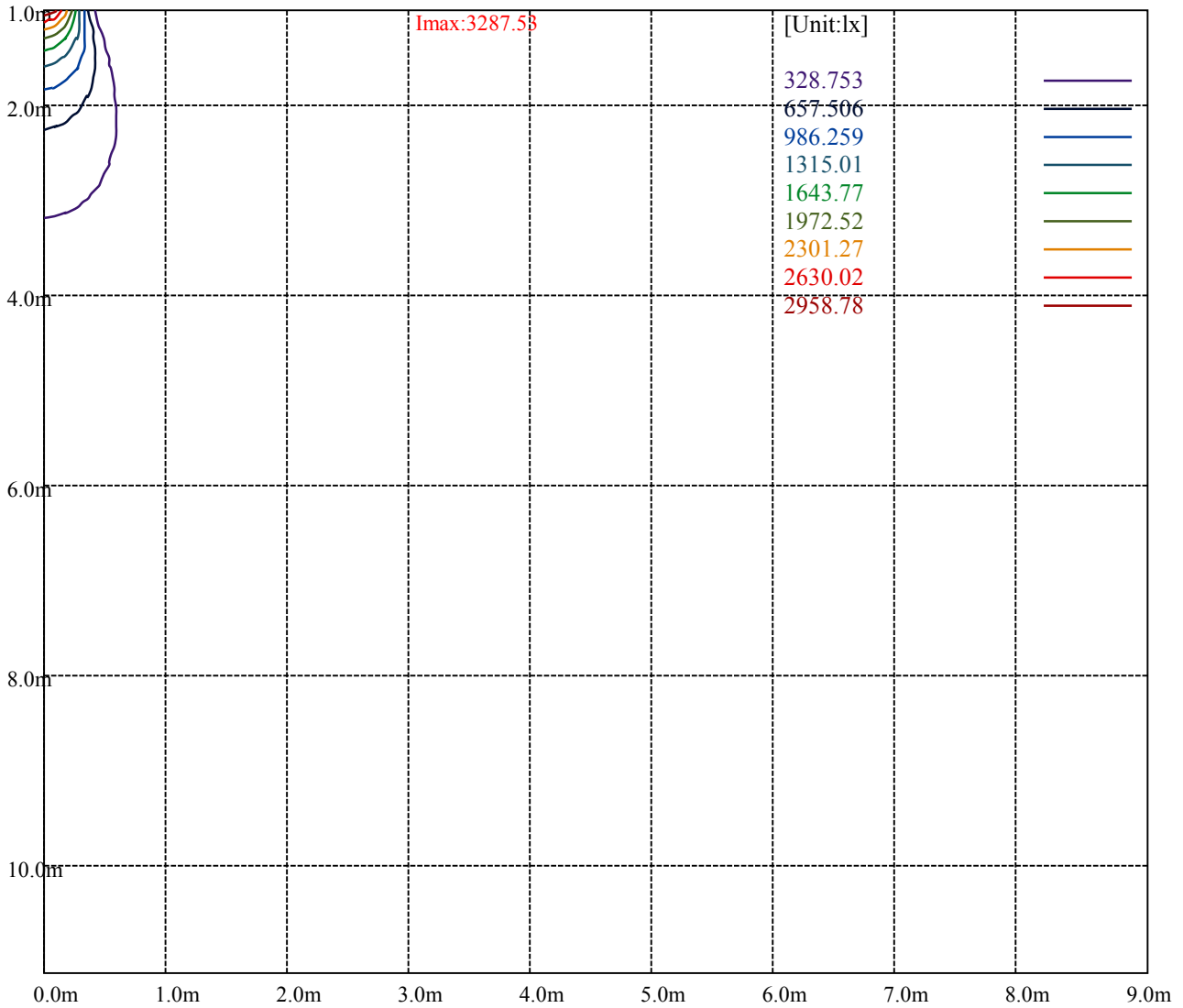
House

[Unit:cd]

Road

Imax:3287.53

(10%Imax) 328.753	—
(20%Imax) 657.506	—
(30%Imax) 986.259	—
(40%Imax) 1315.01	—
(50%Imax) 1643.77	—
(60%Imax) 1972.52	—
(70%Imax) 2301.27	—
(80%Imax) 2630.02	—
(90%Imax) 2958.78	—



Luminance Table

γ	45	50	55	60	65	70	75	80	85
C0	238	230	230	237	250	269	296	320	356
C45	257	250	254	265	283	310	347	385	444
C90	332	337	359	396	454	545	695	939	1544

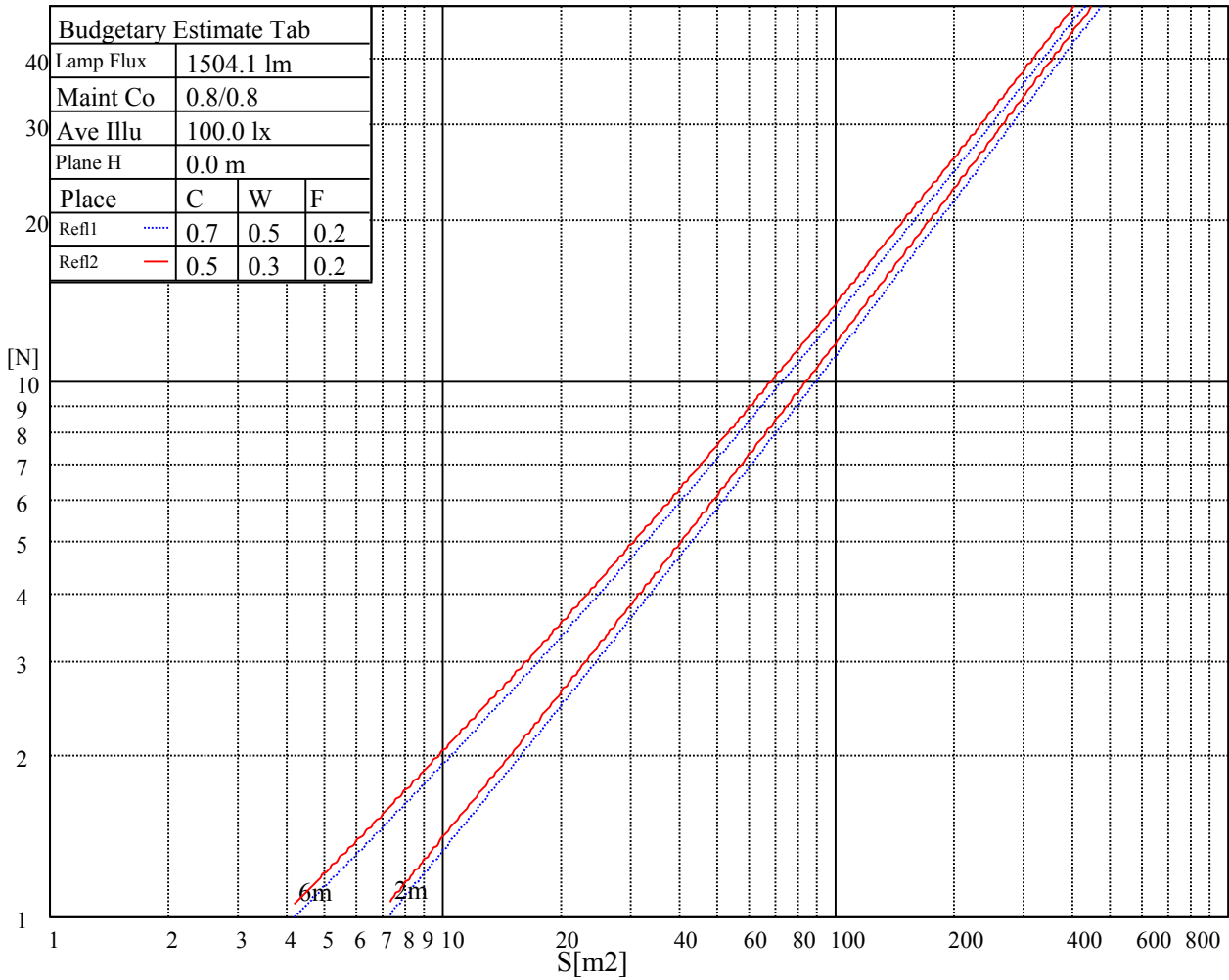
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
488	488	488	786	786	786	2164	2164	2164

Glare Table

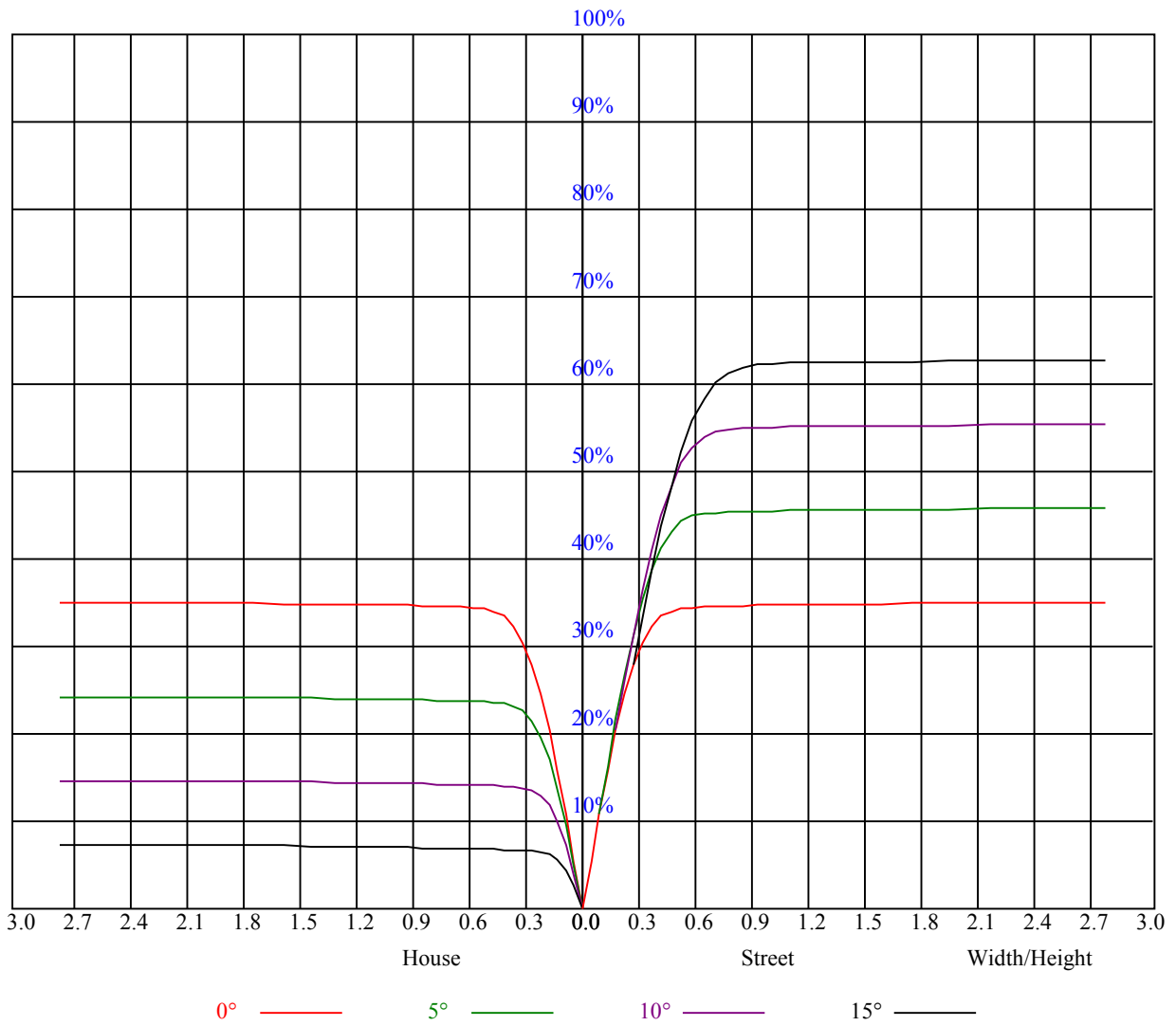
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.85	0.85	0.85	0.83	0.83	0.83	0.79	0.79	0.79	0.76	0.76	0.76	0.73	0.73	0.73	0.71
1	0.80	0.79	0.77	0.79	0.77	0.76	0.76	0.75	0.74	0.73	0.72	0.72	0.71	0.70	0.70	0.68
2	0.76	0.74	0.72	0.75	0.73	0.71	0.73	0.71	0.70	0.71	0.69	0.68	0.69	0.68	0.67	0.66
3	0.73	0.70	0.68	0.72	0.69	0.67	0.70	0.68	0.66	0.68	0.67	0.65	0.67	0.65	0.64	0.63
4	0.70	0.67	0.64	0.69	0.66	0.64	0.67	0.65	0.63	0.66	0.64	0.63	0.65	0.63	0.62	0.61
5	0.67	0.64	0.62	0.66	0.63	0.61	0.65	0.63	0.61	0.64	0.62	0.60	0.63	0.61	0.60	0.59
6	0.64	0.61	0.59	0.64	0.61	0.59	0.63	0.60	0.59	0.62	0.60	0.58	0.61	0.59	0.58	0.57
7	0.62	0.59	0.57	0.62	0.59	0.57	0.61	0.58	0.56	0.60	0.58	0.56	0.60	0.58	0.56	0.55
8	0.60	0.57	0.55	0.60	0.57	0.55	0.59	0.56	0.55	0.58	0.56	0.54	0.58	0.56	0.54	0.53
9	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	0.53	0.52
10	0.56	0.53	0.51	0.56	0.53	0.51	0.56	0.53	0.51	0.55	0.53	0.51	0.55	0.53	0.51	0.50



Nata 1-1010-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	3285.56	3162.94	2835.00	2219.63	1309.50	354.38	37.18	10.80	7.43
45.0	3292.88	3159.56	2788.88	2146.50	1284.19	290.25	32.18	10.01	7.09
90.0	3285.56	3121.88	2689.31	2030.06	1068.30	219.15	29.70	9.51	6.98
135.0	3286.13	3165.19	2840.63	2197.69	1291.50	308.25	44.61	11.53	7.26
180.0	3285.56	3111.19	2669.63	2007.00	1029.83	198.06	34.65	10.52	7.03
225.0	3292.88	3151.69	2733.75	1992.94	1074.32	238.50	34.03	11.64	7.43
270.0	3285.56	3193.88	2794.50	2251.69	1308.94	324.00	43.03	12.15	7.65
315.0	3286.13	3128.63	2707.31	2028.94	1070.10	210.32	27.96	9.73	7.20
360.0	3285.56	3162.94	2835.00	2219.63	1309.50	354.38	37.18	10.80	7.43
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	6.19	5.68	5.40	5.18	5.01	4.95	4.95	4.89	4.73
45.0	6.13	5.74	5.46	5.34	5.23	5.18	5.18	5.06	4.89
90.0	6.13	5.74	5.57	5.40	5.40	5.46	5.51	4.95	4.84
135.0	6.24	5.74	5.51	5.34	5.29	5.23	5.18	5.01	4.84
180.0	6.08	5.63	5.34	5.18	5.06	5.01	4.95	4.89	4.73
225.0	6.30	5.91	5.63	5.51	5.40	5.29	5.23	5.12	5.01
270.0	6.53	6.08	5.85	5.68	5.63	5.63	5.63	5.18	4.89
315.0	6.30	5.85	5.57	5.46	5.34	5.23	5.12	5.01	4.78
360.0	6.19	5.68	5.40	5.18	5.01	4.95	4.95	4.89	4.73
C/ γ (°)	90.0								
0.0	4.73								
45.0	4.78								
90.0	4.73								
135.0	4.73								
180.0	4.73								
225.0	4.84								
270.0	4.73								
315.0	4.73								
360.0	4.73								