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Nata

LumCAT: 1-1010-M
Luminaire: BJB 47.360.1020
Report No: 210714-B010
Test No: 210714-C010
LampCAT: Fortimo LED SLM 1201 G7N
Lamp flux(lm): 1093.7
Number of Lamps: 1
Length(mm): 570
Phm Type: C

Voltage(V): 39.1700
Current(A): 0.2300
Power (W): 9.0090
PF: 0.0000
Ballast type: DC
Width(mm): 45
Height(mm): 20

Photometric Results

Lumens(lm): 802.75
Efficiency(%): 73.40%
Lumens(lm)/Power(W): 89.11
Central intensity(cd): 2496.797
Maximum intensity(cd): 2496.797
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=49.9
 [C90/270]Total=49.9
Maximum s/h(1/2): C0_180=0.57 C90_270=0.57
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(%): 73.40%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.554%

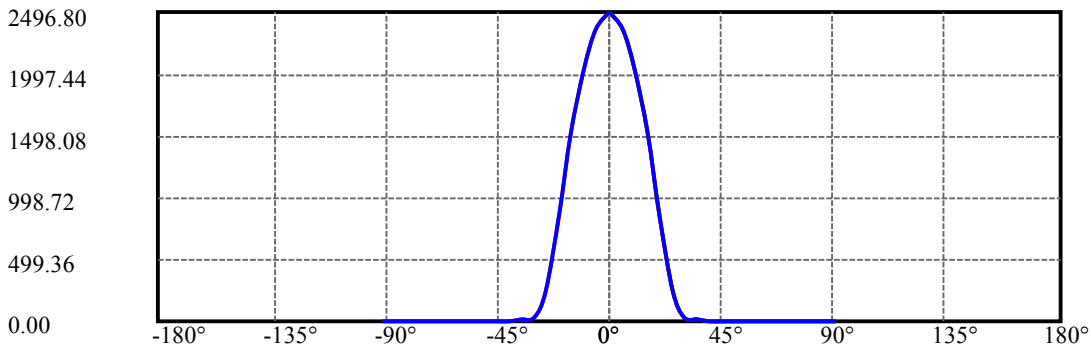
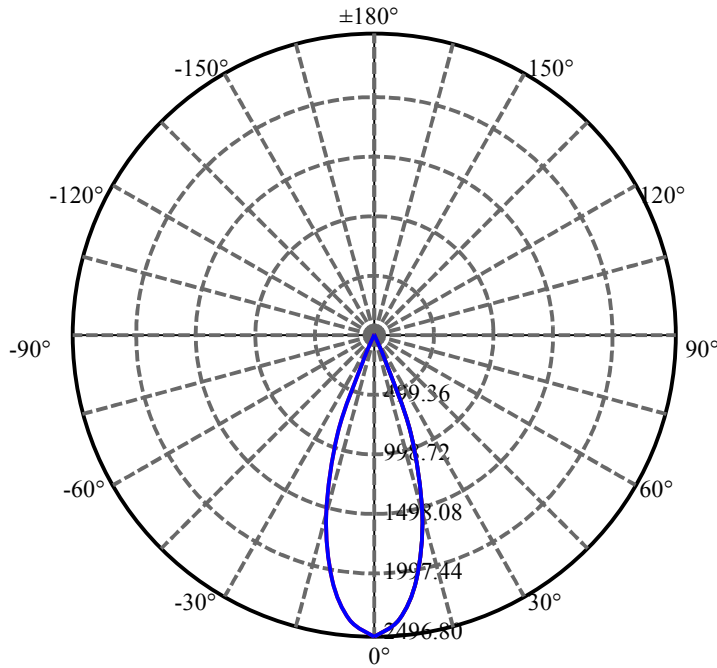
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2496.797	0.000	0	.000%	.000%
5.0	2358.000	58.038	58.038	5.307%	7.230%
10.0	2048.133	157.621	215.659	14.412%	26.865%
15.0	1526.393	212.038	427.697	19.388%	53.279%
20.0	867.783	197.314	625.011	18.042%	77.859%
25.0	244.209	116.627	741.639	10.664%	92.388%
30.0	29.334	34.617	776.256	3.165%	96.700%
35.0	8.269	5.537	781.793	.506%	97.390%
40.0	5.238	2.254	784.047	.206%	97.670%
45.0	4.437	1.791	785.838	.164%	97.894%
50.0	4.127	1.730	787.569	.158%	98.109%
55.0	3.959	1.758	789.327	.161%	98.328%
60.0	3.874	1.811	791.137	.166%	98.554%
65.0	3.832	1.873	793.011	.171%	98.787%
70.0	3.783	1.928	794.939	.176%	99.027%
75.0	3.748	1.968	796.907	.180%	99.273%
80.0	3.635	1.975	798.883	.181%	99.519%
85.0	3.523	1.945	800.828	.178%	99.761%
90.0	3.488	1.919	802.747	.176%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	776.26	70.98%	96.70%
0-40	784.05	71.69%	97.67%
0-60	791.14	72.34%	98.55%
0-90	800.83	73.23%	99.76%
0-120	800.83	73.23%	99.76%
0-180	802.75	73.40%	100.00%
60-90	11.50	1.05%	1.43%
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%
0-20.74	642.20	58.72%	80.00%

ZONAL LUMEN SUMMARY

0-10	215.66
10-20	409.35
20-30	151.24
30-40	7.79
40-50	3.52
50-60	3.57
60-70	3.80
70-80	3.94
80-90	1.94
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



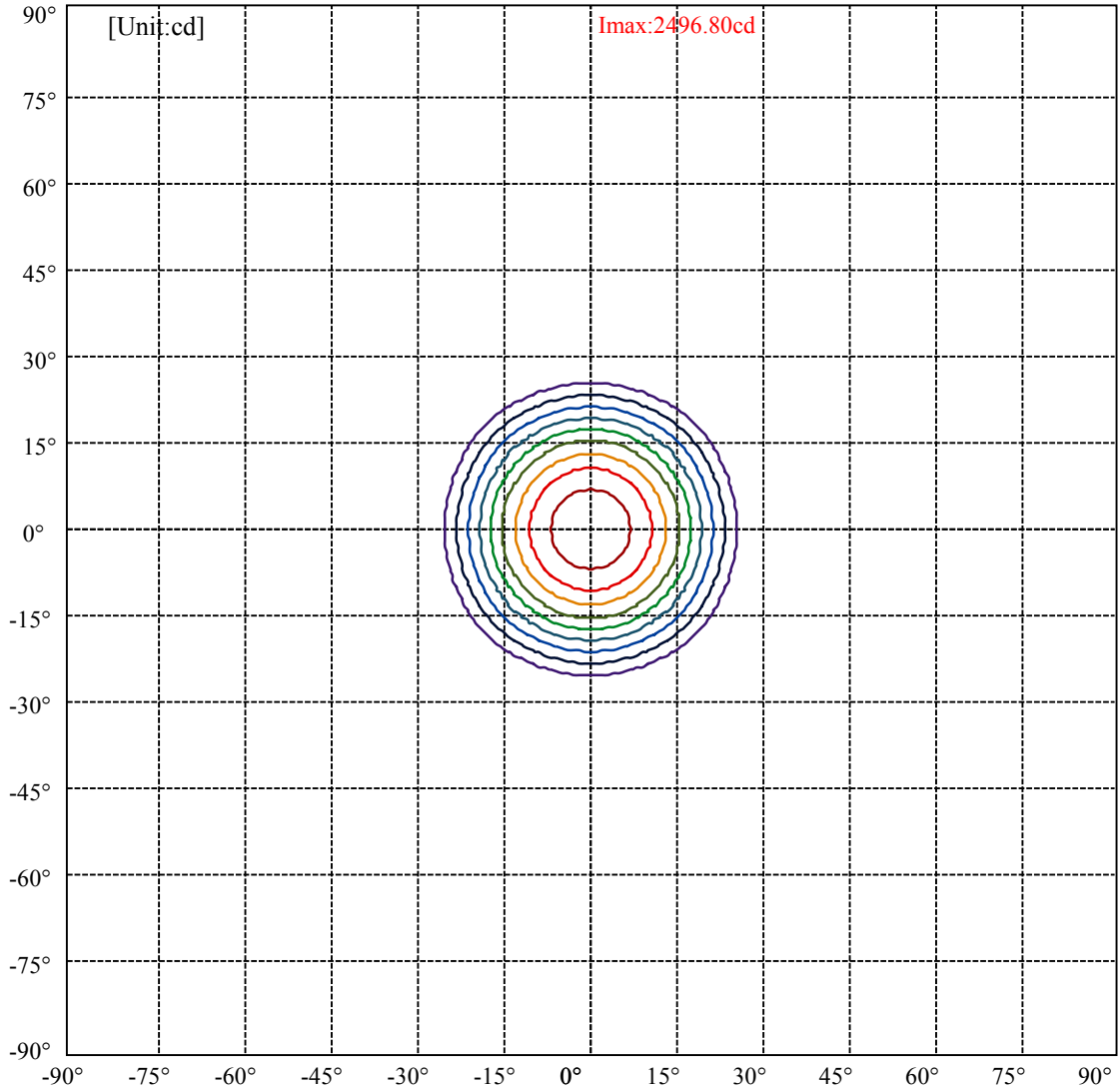
C0(Max): —————

C0/C180: —————

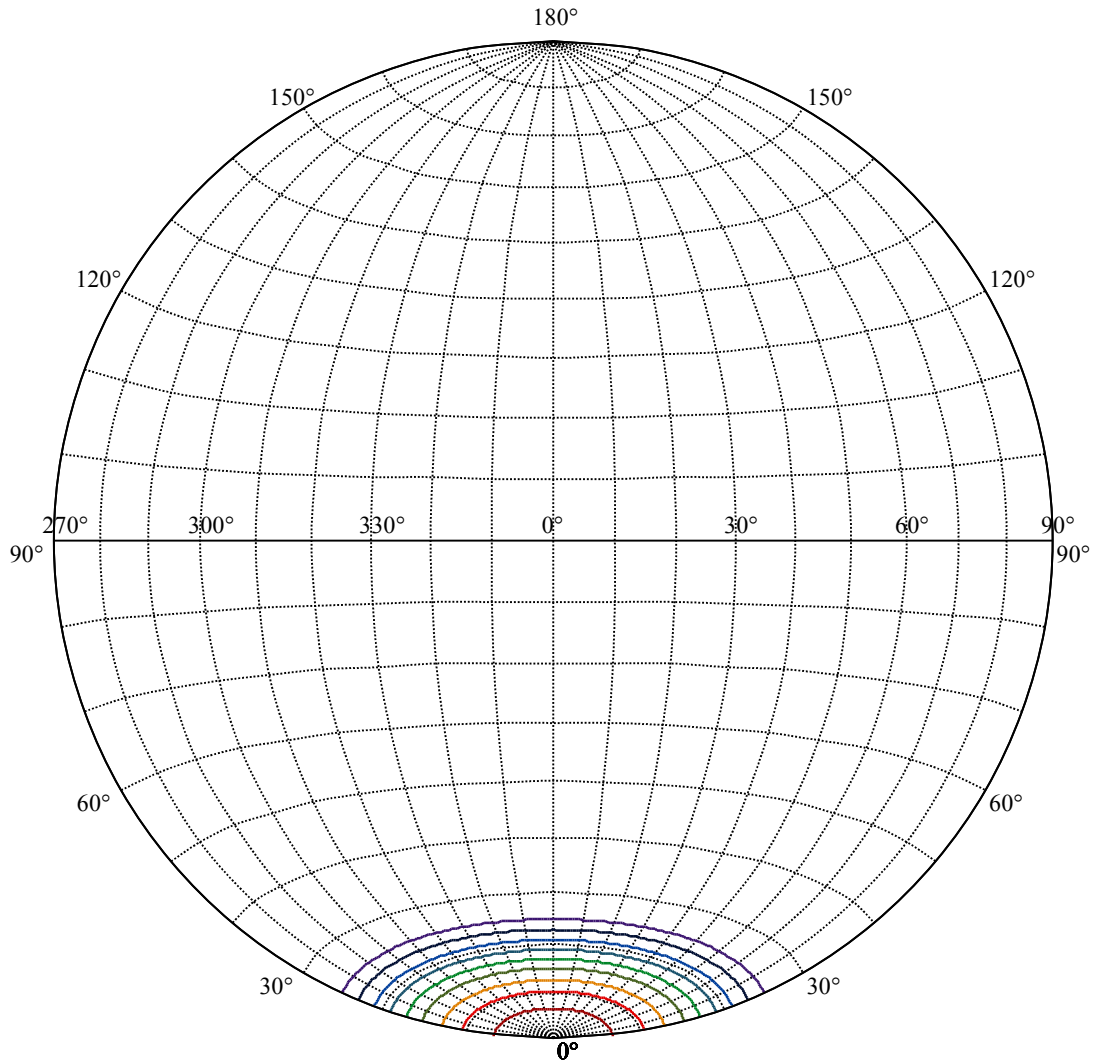
C90/C270: —————

Field angle(10%Imax):C0/180Left:25.0 Right:25.0
:C90/270Left:25.0 Right:25.0

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



(10%Imax) 249.68	—
(20%Imax) 499.359	—
(30%Imax) 749.039	—
(40%Imax) 998.719	—
(50%Imax) 1248.4	—
(60%Imax) 1498.08	—
(70%Imax) 1747.76	—
(80%Imax) 1997.44	—
(90%Imax) 2247.12	—



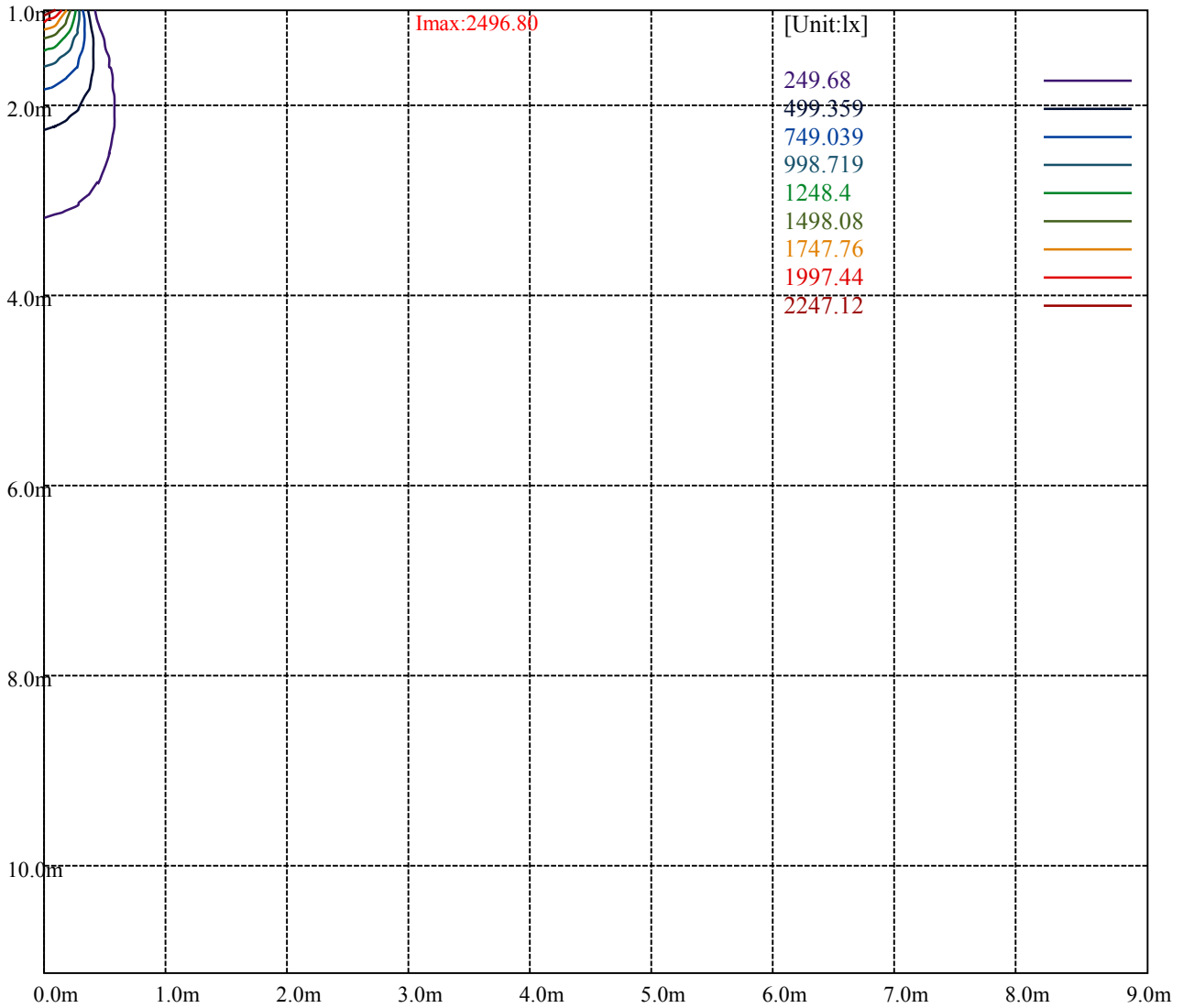
House

[Unit:cd]

Road

Imax:2496.80

(10%Imax) 249.68	—
(20%Imax) 499.359	—
(30%Imax) 749.039	—
(40%Imax) 998.719	—
(50%Imax) 1248.4	—
(60%Imax) 1498.08	—
(70%Imax) 1747.76	—
(80%Imax) 1997.44	—
(90%Imax) 2247.12	—



Luminance Table

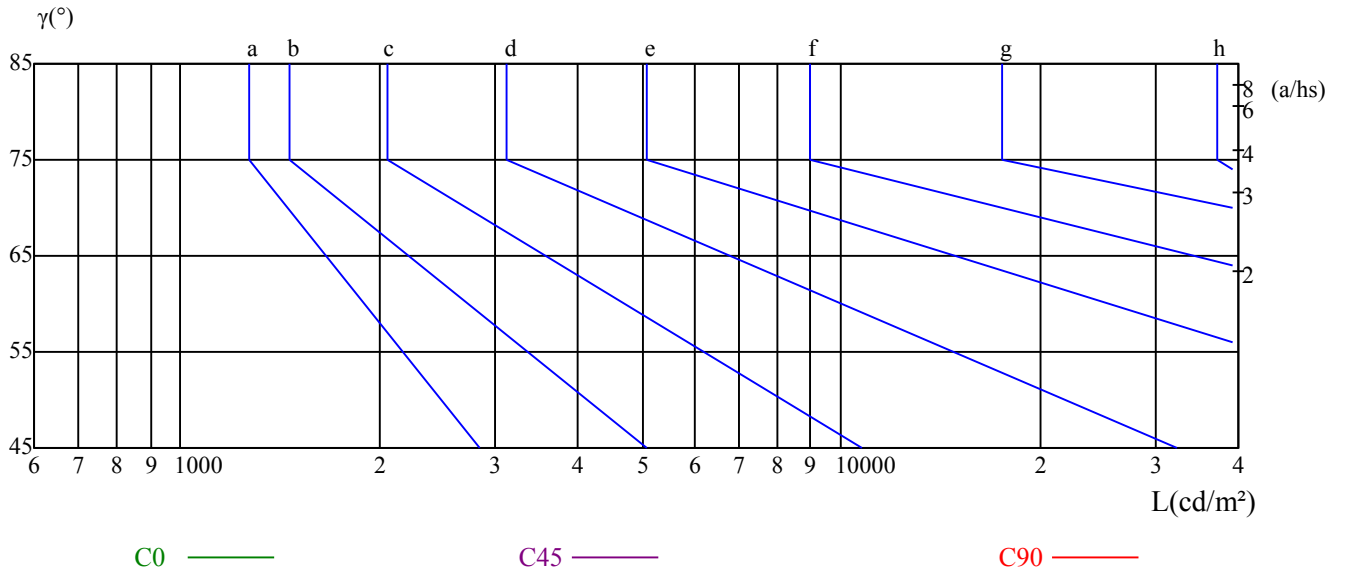
γ	45	50	55	60	65	70	75	80	85
C0	169	164	165	171	181	194	212	232	259
C45	183	178	181	190	205	223	249	279	323
C90	236	240	256	285	329	393	499	681	1125

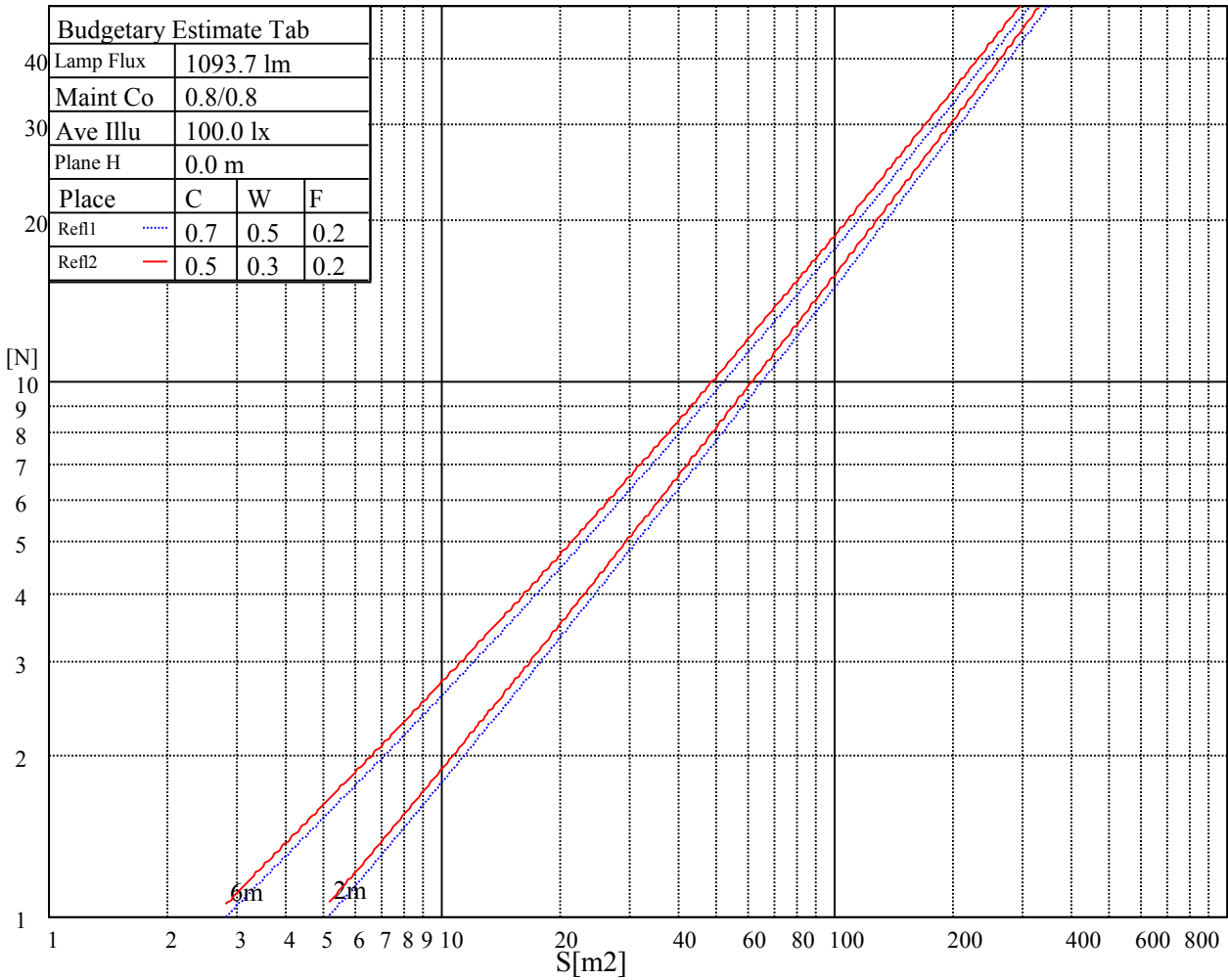
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
354	354	354	565	565	565	1576	1576	1576

Glare Table

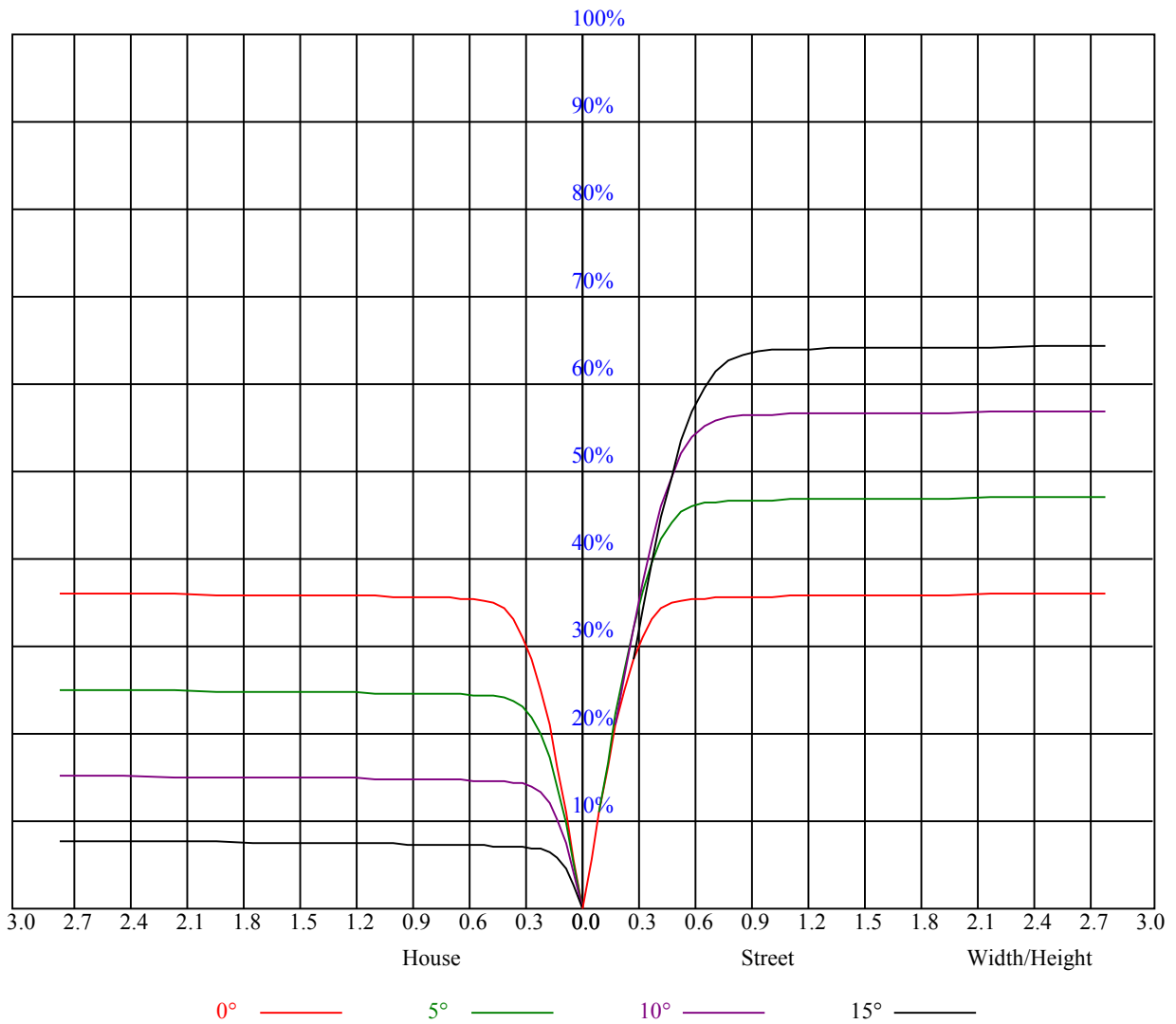
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.82	0.82	0.82	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	0.68	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	0.60	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	0.57
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	0.59	0.57	0.56	0.55
9	0.60	0.57	0.54	0.59	0.56	0.54	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	0.54	0.53	0.57	0.54	0.52	0.56	0.54	0.52	0.52



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	2476.69	2446.88	2151.00	1779.19	1108.69	357.19	59.18	12.09	5.96
45.0	2514.38	2362.50	2037.38	1549.69	832.50	290.25	25.48	7.48	5.18
90.0	2494.13	2265.19	1937.81	1287.56	614.93	84.60	14.29	6.08	4.84
135.0	2502.00	2300.06	1987.31	1450.13	781.88	295.31	15.30	6.30	4.89
180.0	2476.69	2265.75	1919.81	1110.21	632.93	81.84	12.60	5.79	4.73
225.0	2514.38	2370.94	2087.44	1589.06	894.04	203.74	25.09	7.54	5.06
270.0	2494.13	2434.50	2167.88	1748.25	1104.19	367.31	46.41	10.41	5.74
315.0	2502.00	2418.19	2096.44	1697.06	973.13	273.43	36.34	10.46	5.51
360.0	2476.69	2446.88	2151.00	1779.19	1108.69	357.19	59.18	12.09	5.96

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	4.67	4.22	3.99	3.88	3.83	3.77	3.71	3.66	3.60
45.0	4.50	4.22	4.05	3.99	3.94	3.88	3.83	3.60	3.49
90.0	4.39	4.16	4.05	3.99	3.94	3.88	3.77	3.54	3.49
135.0	4.28	4.05	3.88	3.77	3.71	3.71	3.66	3.60	3.49
180.0	4.28	3.99	3.88	3.77	3.77	3.71	3.66	3.60	3.54
225.0	4.39	4.05	3.94	3.88	3.88	3.83	3.88	3.77	3.54
270.0	4.56	4.22	3.99	3.94	3.88	3.83	3.83	3.71	3.49
315.0	4.44	4.11	3.88	3.77	3.71	3.66	3.66	3.60	3.54
360.0	4.67	4.22	3.99	3.88	3.83	3.77	3.71	3.66	3.60

C/γ(°)	90.0
0.0	3.54
45.0	3.43
90.0	3.49
135.0	3.49
180.0	3.54
225.0	3.49
270.0	3.43
315.0	3.49
360.0	3.54