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Nata

LumCAT: 1-1010-M	
Luminaire: BJB 47.360.1020	
Report No: 210719-B019	Voltage(V): 36.2500
Test No: 210719-C019	Current(A): 0.5110
LampCAT: Fortimo LED SLM 1204 G7N	Power (W): 18.5230
Lamp flux(lm): 2455.6	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): 1725.61
Efficiency(%): 70.27%
Lumens(lm)/Power(W): 93.16
Central intensity(cd): 5408.156
Maximum intensity(cd): 5408.156
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=34.4
 [C90/270]Total=34.4
Field angle(10%Imax): [C0/180]Total=49.1
 [C90/270]Total=49.1
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(%): 70.27%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.479%

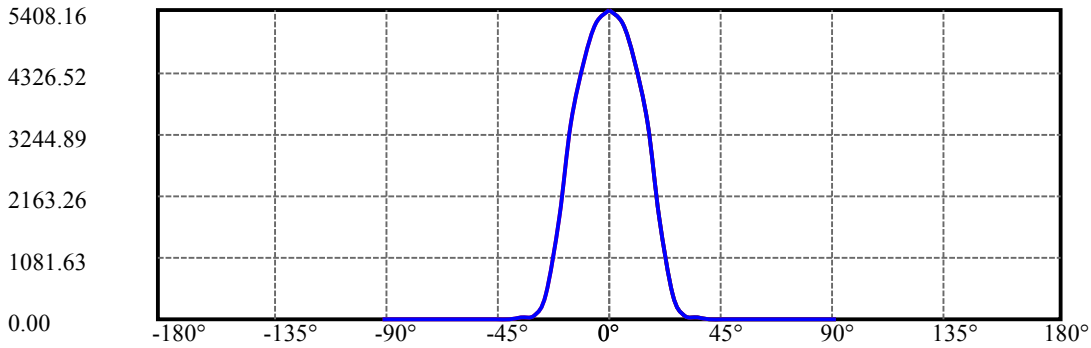
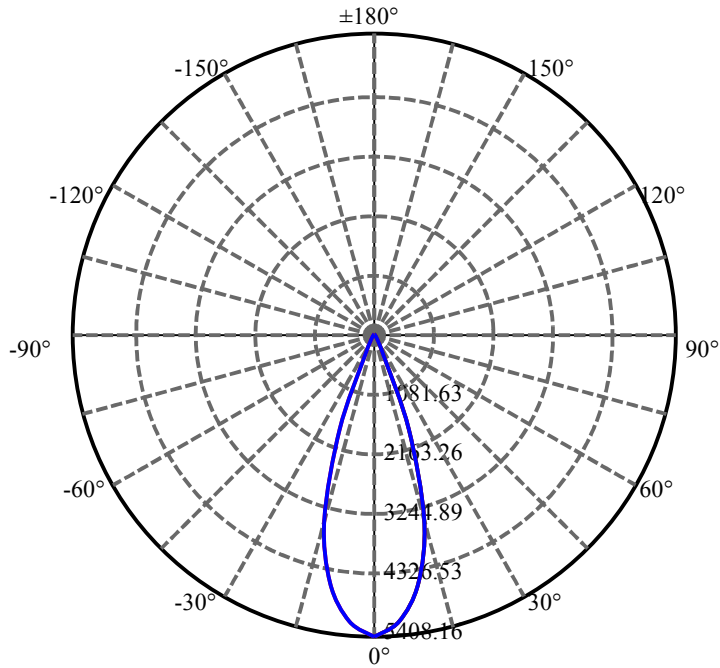
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5408.156	0.000	0	.000%	.000%
5.0	5168.531	126.441	126.441	5.149%	7.327%
10.0	4525.664	346.792	473.233	14.123%	27.424%
15.0	3439.688	472.499	945.732	19.242%	54.806%
20.0	1779.230	430.112	1375.845	17.516%	79.731%
25.0	420.870	230.750	1606.594	9.397%	93.103%
30.0	57.410	60.527	1667.121	2.465%	96.611%
35.0	17.684	11.058	1678.179	.450%	97.252%
40.0	11.876	4.932	1683.111	.201%	97.537%
45.0	10.216	4.091	1687.201	.167%	97.774%
50.0	9.478	3.980	1691.181	.162%	98.005%
55.0	9.070	4.033	1695.214	.164%	98.239%
60.0	8.859	4.144	1699.358	.169%	98.479%
65.0	8.719	4.273	1703.632	.174%	98.727%
70.0	8.585	4.381	1708.013	.178%	98.980%
75.0	8.501	4.466	1712.479	.182%	99.239%
80.0	8.191	4.466	1716.946	.182%	99.498%
85.0	7.896	4.371	1721.317	.178%	99.751%
90.0	7.770	4.289	1725.606	.175%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1667.12	67.89%	96.61%
0-40	1683.11	68.54%	97.54%
0-60	1699.36	69.20%	98.48%
0-90	1721.32	70.10%	99.75%
0-120	1721.32	70.10%	99.75%
0-180	1725.61	70.27%	100.00%
60-90	26.10	1.06%	1.51%
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%
0-20.10	1380.49	56.22%	80.00%

ZONAL LUMEN SUMMARY

0-10	473.23
10-20	902.61
20-30	291.28
30-40	15.99
40-50	8.07
50-60	8.18
60-70	8.65
70-80	8.93
80-90	4.37
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: —————

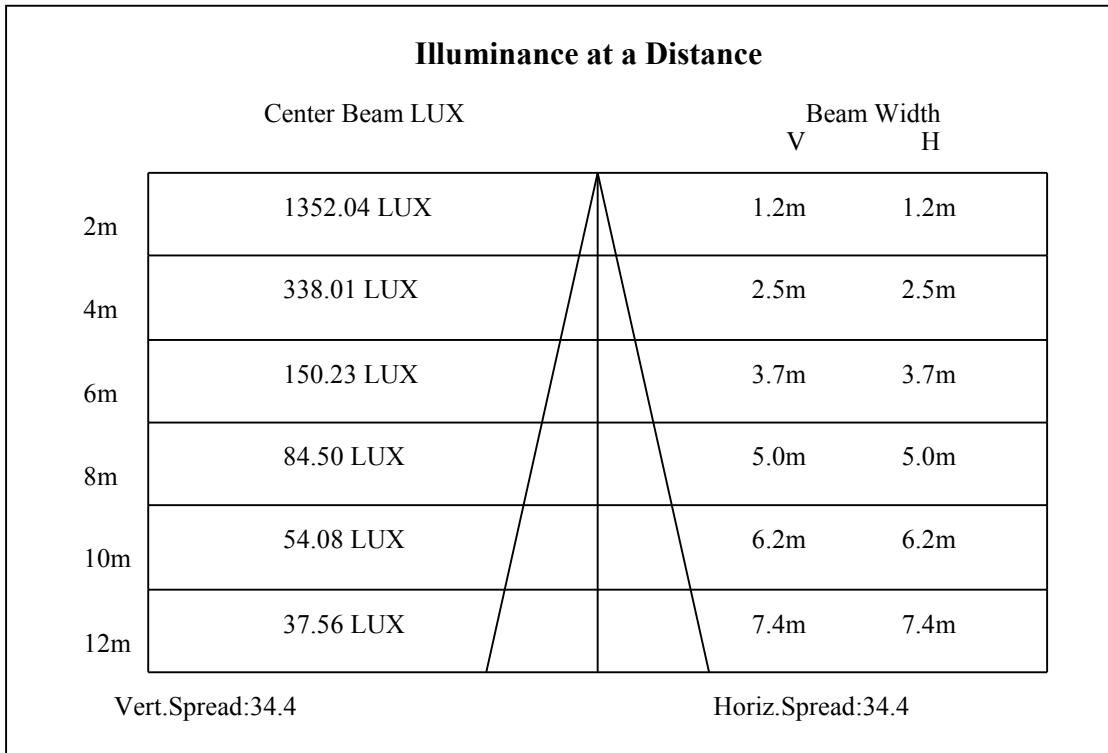
C90/C270: —————

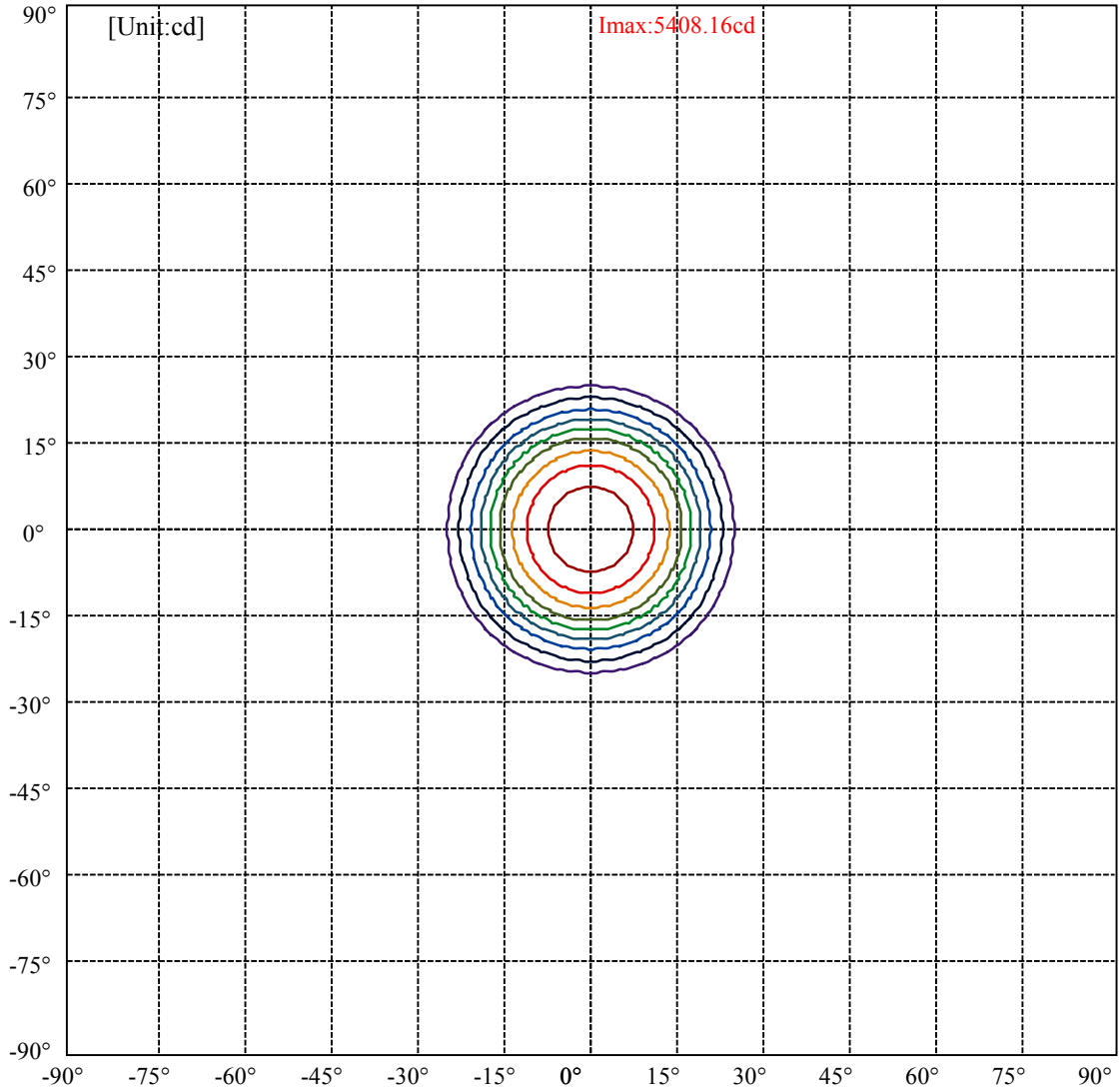
Field angle(10%Imax):C0/180Left:24.6 Right:24.6

:C90/270Left:24.6 Right:24.6

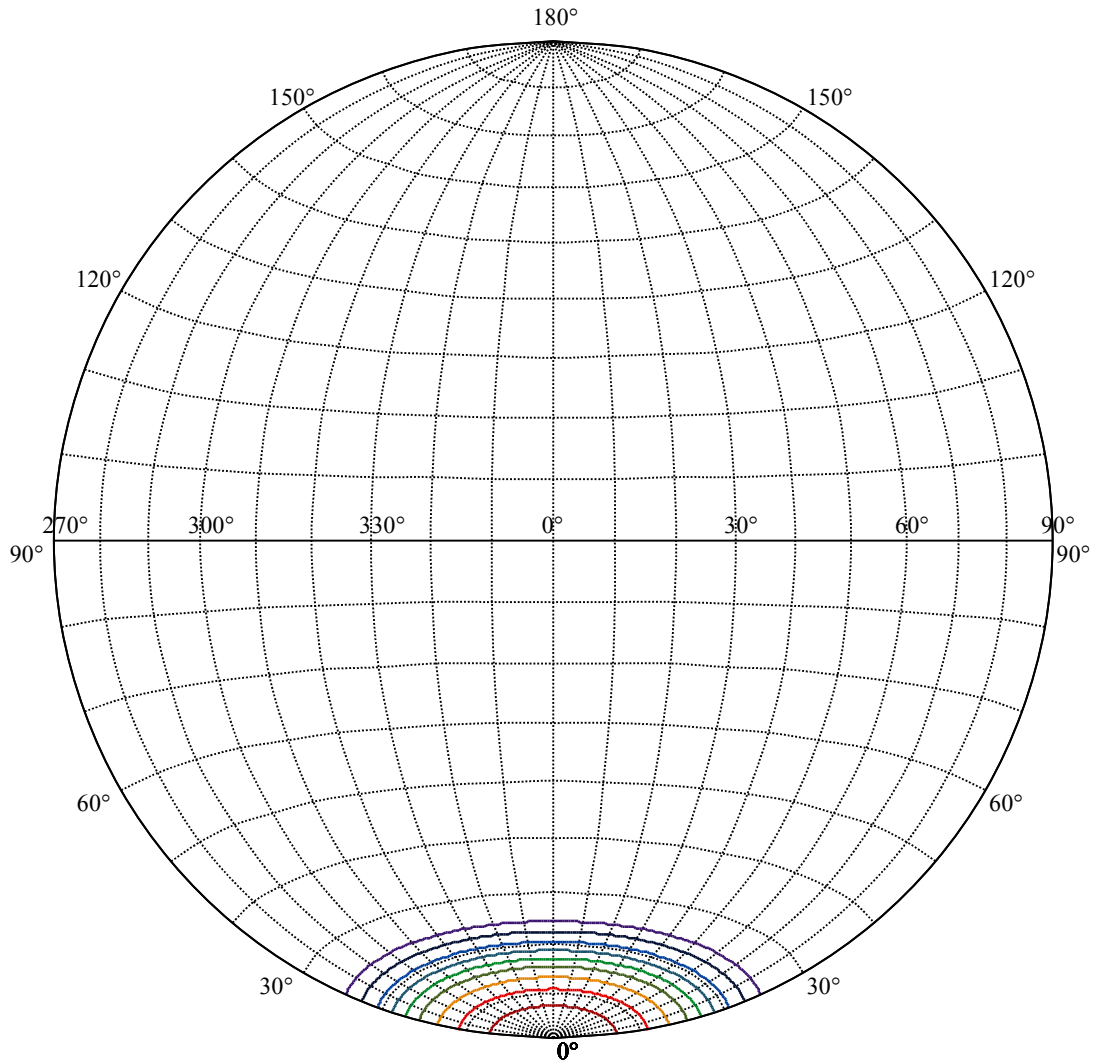
Beam Angle(50%Imax):C0/180Left:17.2 Right:17.2

:C90/270Left:17.2 Right:17.2





(10%Imax) 540.816	—
(20%Imax) 1081.63	—
(30%Imax) 1622.45	—
(40%Imax) 2163.26	—
(50%Imax) 2704.08	—
(60%Imax) 3244.89	—
(70%Imax) 3785.71	—
(80%Imax) 4326.52	—
(90%Imax) 4867.34	—



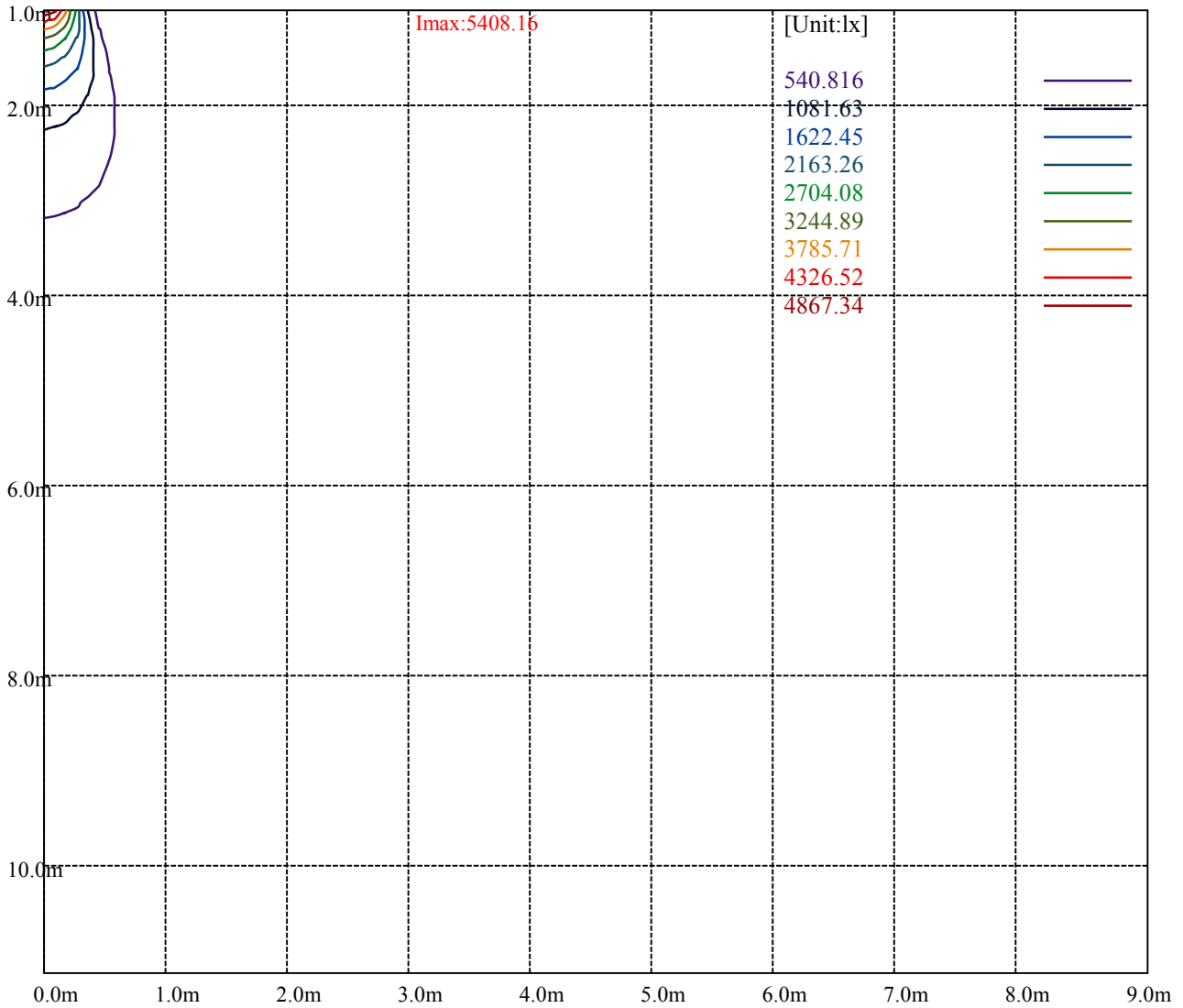
House

[Unit:cd]

Road

Imax:5408.16

(10%Imax) 540.816	—
(20%Imax) 1081.63	—
(30%Imax) 1622.45	—
(40%Imax) 2163.26	—
(50%Imax) 2704.08	—
(60%Imax) 3244.89	—
(70%Imax) 3785.71	—
(80%Imax) 4326.52	—
(90%Imax) 4867.34	—



Luminance Table

γ	45	50	55	60	65	70	75	80	85
C0	390	376	377	390	412	441	482	522	581
C45	421	409	415	435	466	507	565	629	724
C90	544	552	587	651	748	893	1132	1534	2521

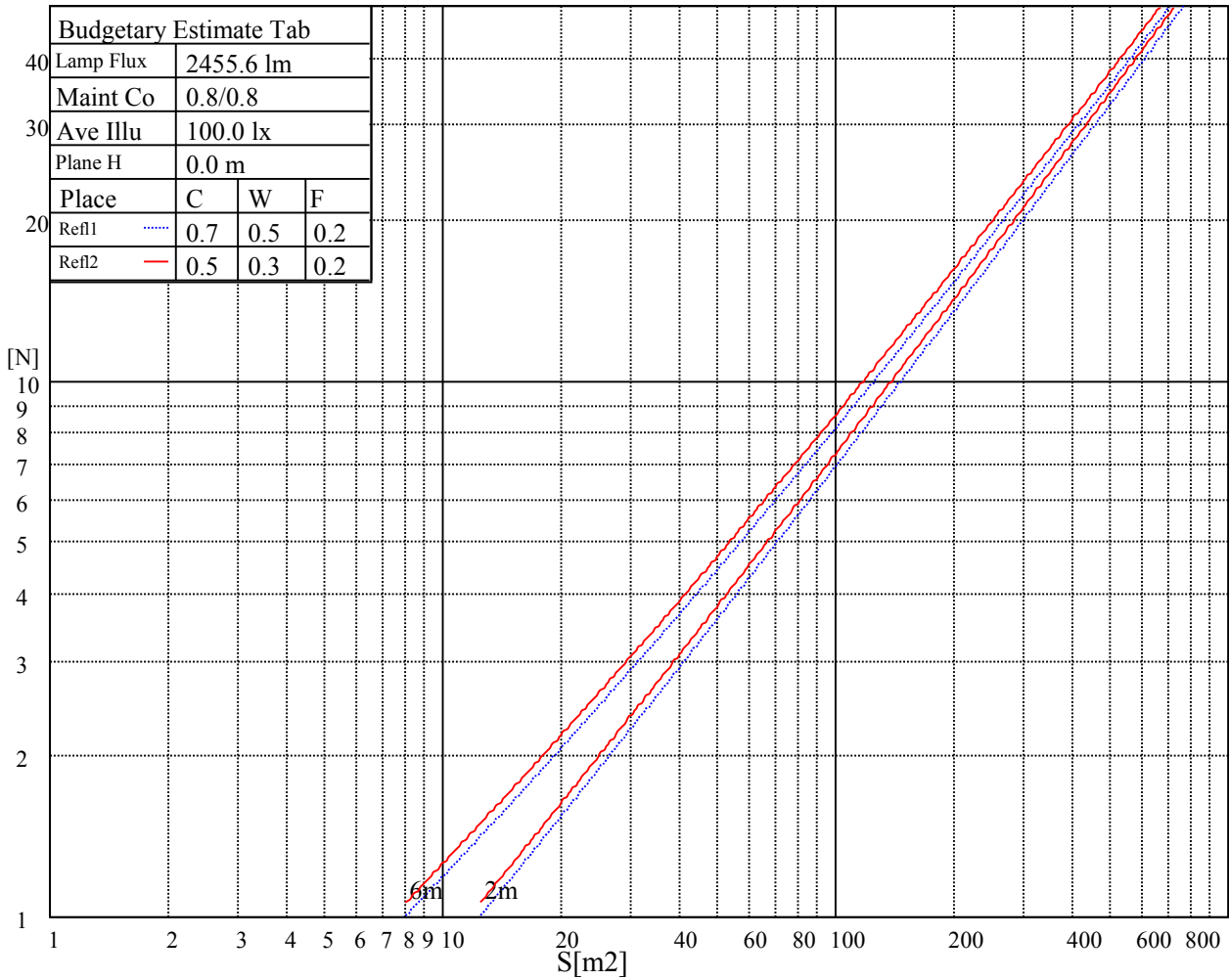
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
804	804	804	1280	1280	1280	3532	3532	3532

Glare Table

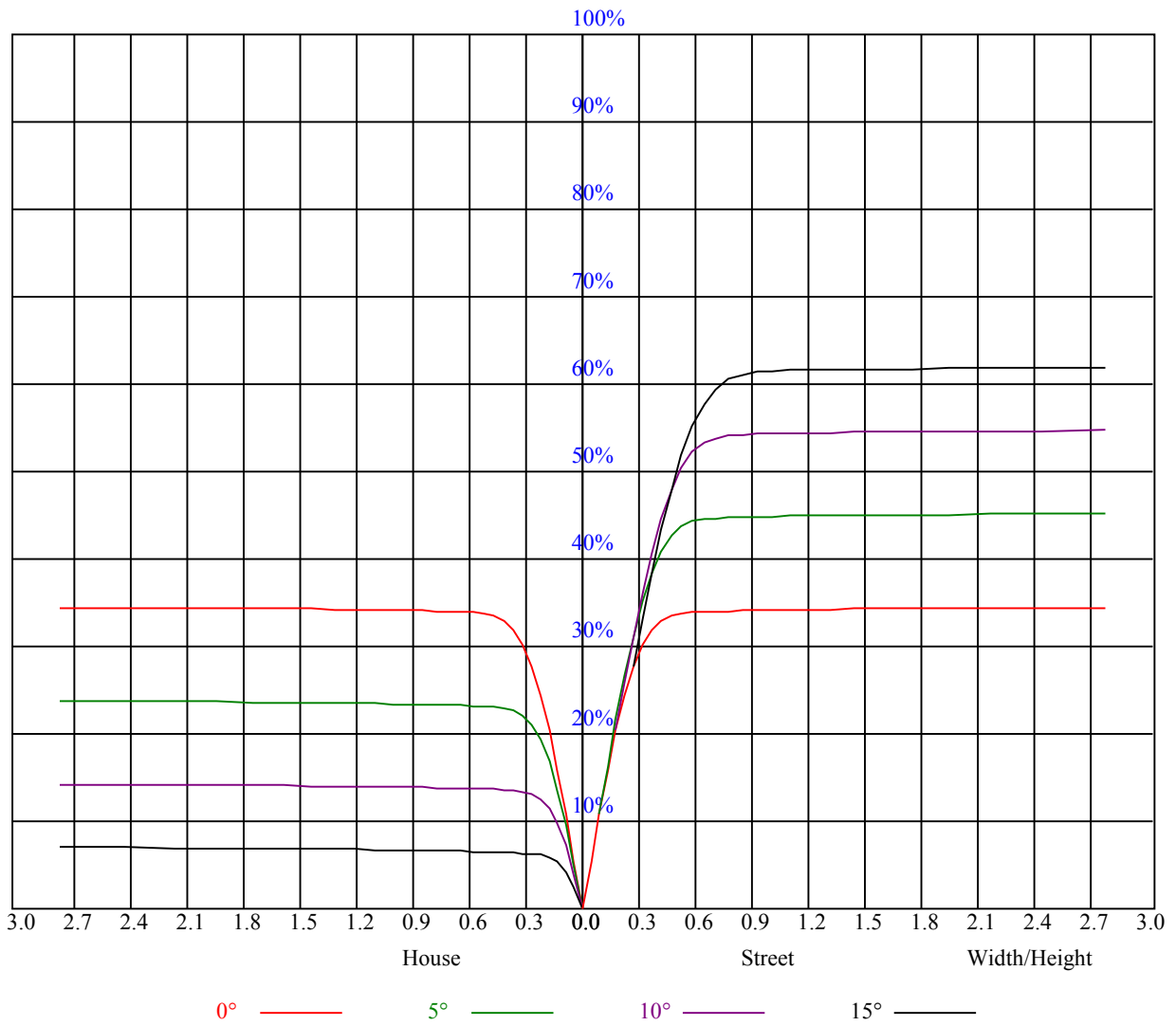
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.84	0.84	0.84	0.82	0.82	0.82	0.78	0.78	0.78	0.75	0.75	0.75	0.72	0.72	0.72	0.70
1	0.79	0.77	0.76	0.77	0.76	0.75	0.75	0.74	0.73	0.72	0.71	0.70	0.70	0.69	0.68	0.67
2	0.75	0.73	0.71	0.74	0.72	0.70	0.72	0.70	0.69	0.70	0.68	0.67	0.68	0.67	0.66	0.65
3	0.72	0.69	0.67	0.71	0.68	0.66	0.69	0.67	0.65	0.67	0.66	0.64	0.66	0.64	0.63	0.62
4	0.69	0.66	0.63	0.68	0.65	0.63	0.66	0.64	0.62	0.65	0.63	0.62	0.64	0.62	0.61	0.60
5	0.66	0.63	0.61	0.65	0.63	0.60	0.64	0.62	0.60	0.63	0.61	0.59	0.62	0.60	0.59	0.58
6	0.64	0.61	0.58	0.63	0.60	0.58	0.62	0.60	0.58	0.61	0.59	0.57	0.60	0.59	0.57	0.56
7	0.61	0.58	0.56	0.61	0.58	0.56	0.60	0.58	0.56	0.59	0.57	0.55	0.59	0.57	0.55	0.54
8	0.59	0.56	0.54	0.59	0.56	0.54	0.58	0.56	0.54	0.58	0.55	0.54	0.57	0.55	0.54	0.53
9	0.57	0.54	0.52	0.57	0.54	0.52	0.57	0.54	0.52	0.56	0.54	0.52	0.56	0.53	0.52	0.51
10	0.56	0.53	0.51	0.55	0.53	0.51	0.55	0.52	0.51	0.55	0.52	0.51	0.54	0.52	0.50	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	5406.19	5222.81	4598.44	3512.25	2068.31	507.38	70.20	22.05	12.38
45.0	5407.31	5169.38	4491.56	3486.94	1873.69	397.69	61.26	18.00	12.21
90.0	5407.88	5097.38	4464.56	3314.81	1452.94	370.58	48.88	16.20	11.98
135.0	5411.25	5244.75	4678.31	3644.44	2183.06	597.38	65.08	17.38	12.15
180.0	5406.19	5123.81	4444.88	3296.25	1508.63	332.33	42.19	15.13	11.14
225.0	5407.31	5191.31	4578.75	3462.19	2014.88	436.33	54.62	17.49	11.81
270.0	5407.88	5222.25	4586.06	3580.31	2057.06	479.81	66.15	18.68	11.98
315.0	5411.25	5076.56	4362.75	3220.31	1075.28	245.48	50.91	16.54	11.36
360.0	5406.19	5222.81	4598.44	3512.25	2068.31	507.38	70.20	22.05	12.38
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	10.24	9.34	8.83	8.61	8.38	8.27	8.10	7.93	7.93
45.0	10.58	9.90	9.51	9.34	9.23	9.06	8.94	8.38	8.04
90.0	10.58	9.90	9.62	9.39	9.28	9.06	9.00	8.21	7.93
135.0	10.35	9.56	9.06	8.78	8.55	8.38	8.21	8.10	7.82
180.0	9.73	9.00	8.61	8.33	8.21	8.10	7.99	7.88	7.71
225.0	10.13	9.39	9.06	8.83	8.78	8.72	8.72	8.49	7.99
270.0	10.24	9.56	9.17	9.06	9.00	8.89	8.89	8.49	7.93
315.0	9.90	9.17	8.72	8.55	8.33	8.21	8.16	8.04	7.82
360.0	10.24	9.34	8.83	8.61	8.38	8.27	8.10	7.93	7.93
C/ γ (°)	90.0								
0.0	7.65								
45.0	7.88								
90.0	7.82								
135.0	7.71								
180.0	7.59								
225.0	7.93								
270.0	7.82								
315.0	7.76								
360.0	7.65								