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Nata

LumCAT: 1-1007-M
Luminaire: BJB 47.360.1020
Report No: 210716-B016
Test No: 210716-C016
LampCAT: Fortimo LED SLM 1203 G7N
Lamp flux(lm): 2154.2
Number of Lamps: 1
Length(mm): 570
Phm Type: C

Voltage(V): 36.9900
Current(A): 0.4510
Power (W): 16.6820
PF: 0.0000
Ballast type: DC
Width(mm): 45
Height(mm): 20

Photometric Results

Lumens(lm): 1544.95
Efficiency(%): 71.72%
Lumens(lm)/Power(W): 92.61
Central intensity(cd): 4774.640
Maximum intensity(cd): 4774.640
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=34.3
 [C90/270]Total=34.3
Field angle(10%Imax): [C0/180]Total=50.2
 [C90/270]Total=50.2
IES Classification : TypeI
Longitudinal Classification : VeryShort
Cut Off Classification : Cutoff
Max Cd(At 90°Vert) : 7.024219
Max Cd(80 to 90°Vert) : 7.396875
Street Side UpWard Lumens: - -of Lamp 0.00%of Luminaire
Street Side DownWard Lumens: 35.86%of Lamp 50.00%of Luminaire
House Side UpWard Lumens: - -of lamp 0.00%of Luminaire
House Side DownWard Lumens: 35.86%of Lamp 50.00%of Luminaire

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2021/7/16
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

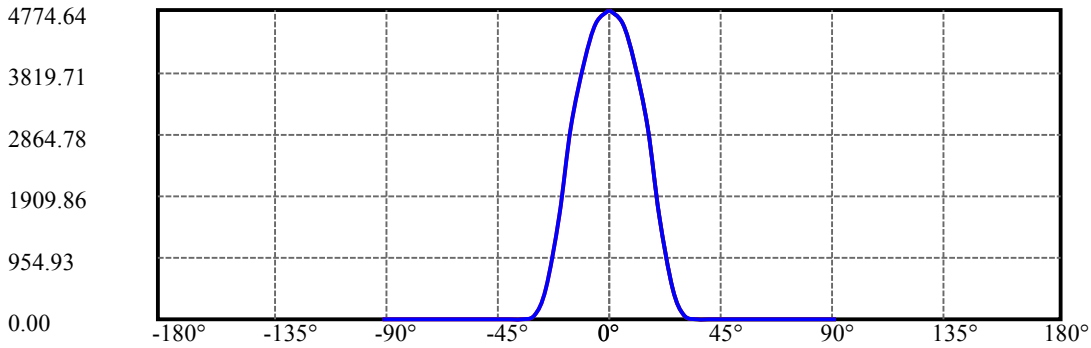
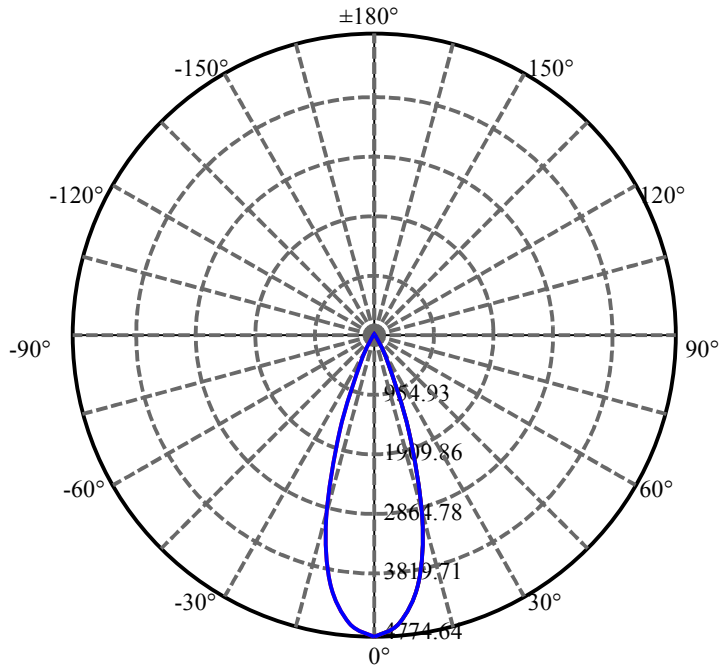
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4774.641	0.000	0	.000%	.000%
5.0	4566.938	111.676	111.676	5.184%	7.228%
10.0	3969.422	305.372	417.048	14.176%	26.994%
15.0	2977.383	412.080	829.128	19.129%	53.667%
20.0	1605.649	377.706	1206.834	17.533%	78.115%
25.0	484.580	219.226	1426.061	10.177%	92.304%
30.0	48.466	67.457	1493.518	3.131%	96.671%
35.0	13.570	9.135	1502.654	.424%	97.262%
40.0	10.308	3.984	1506.637	.185%	97.520%
45.0	9.091	3.592	1510.229	.167%	97.752%
50.0	8.557	3.566	1513.796	.166%	97.983%
55.0	8.248	3.654	1517.449	.170%	98.220%
60.0	8.023	3.761	1521.21	.175%	98.463%
65.0	7.882	3.866	1525.077	.179%	98.713%
70.0	7.763	3.961	1529.038	.184%	98.970%
75.0	7.678	4.036	1533.074	.187%	99.231%
80.0	7.397	4.034	1537.108	.187%	99.492%
85.0	7.172	3.959	1541.066	.184%	99.748%
90.0	7.024	3.887	1544.953	.180%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1493.52	69.33%	96.67%
0-40	1506.64	69.94%	97.52%
0-60	1521.21	70.62%	98.46%
0-90	1541.07	71.54%	99.75%
0-120	1541.07	71.54%	99.75%
0-180	1544.95	71.72%	100.00%
60-90	23.62	1.10%	1.53%
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%
0-20.66	1235.96	57.37%	80.00%

ZONAL LUMEN SUMMARY

0-10	417.05
10-20	789.79
20-30	286.68
30-40	13.12
40-50	7.16
50-60	7.41
60-70	7.83
70-80	8.07
80-90	3.96
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



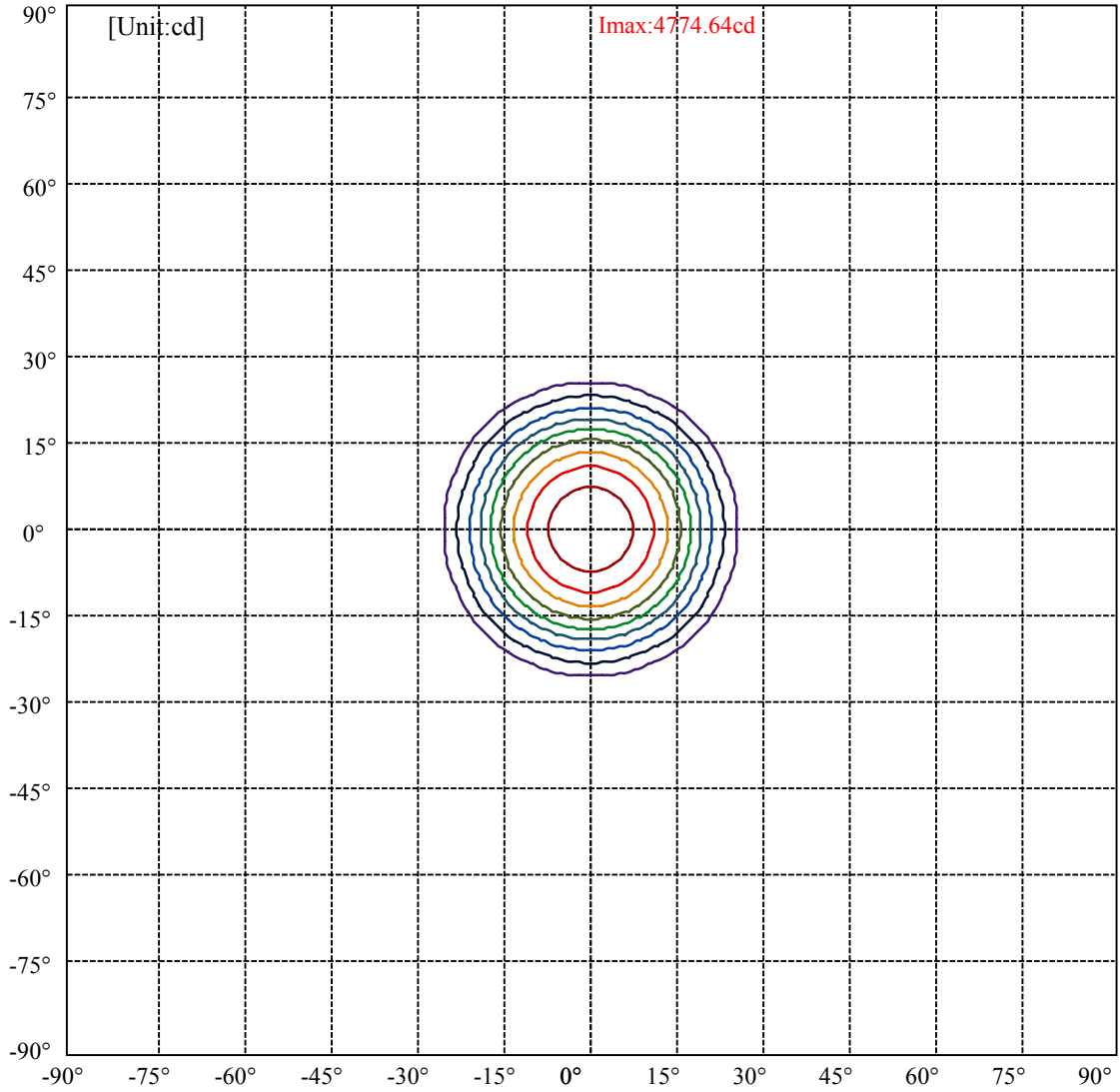
C0(Max): —————

C0/C180: —————

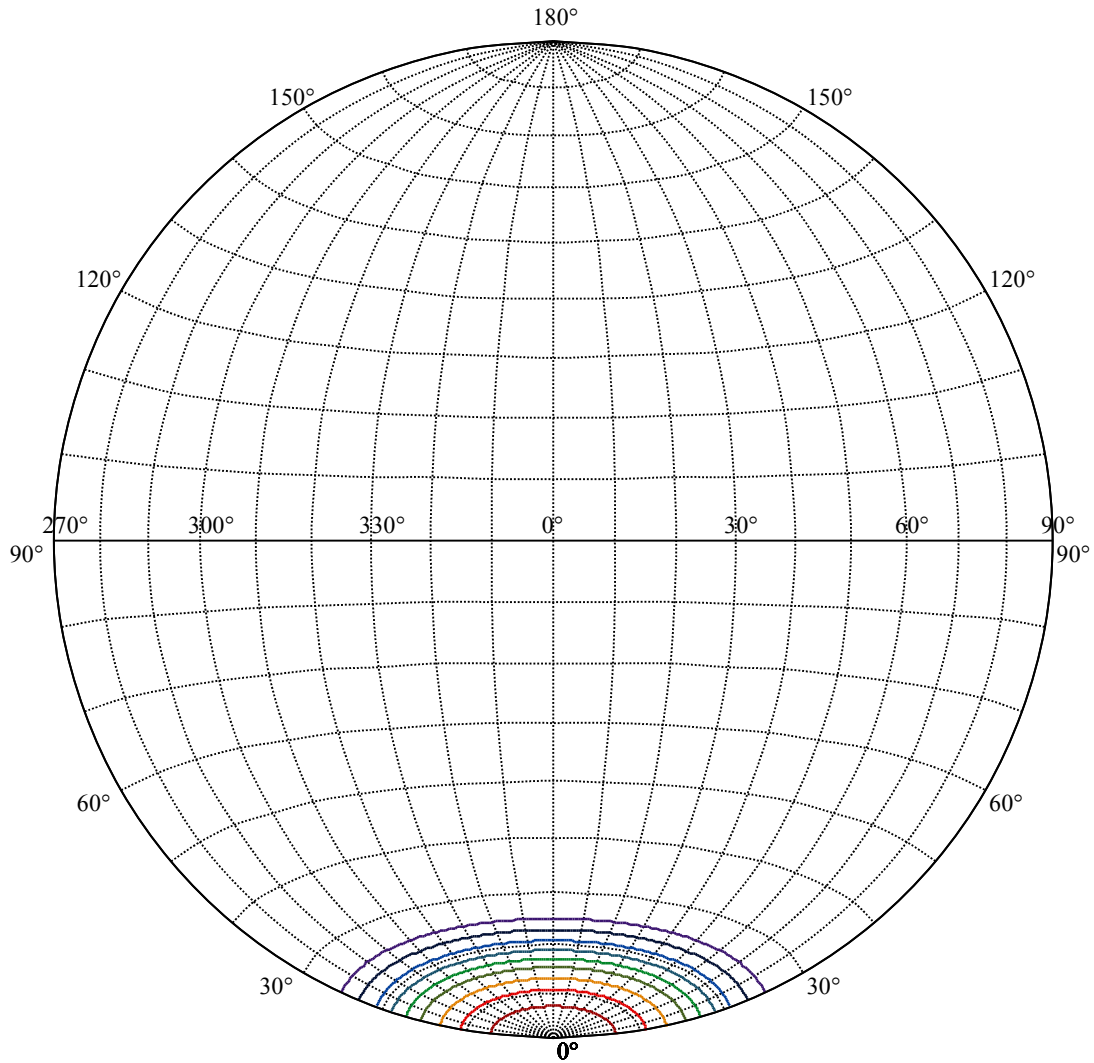
C90/C270: —————

Field angle(10%Imax):C0/180Left:25.1 Right:25.1
:C90/270Left:25.1 Right:25.1

Beam Angle(50%Imax):C0/180Left:17.2 Right:17.2
:C90/270Left:17.2 Right:17.2



(10%Imax) 477.464	—
(20%Imax) 954.928	—
(30%Imax) 1432.39	—
(40%Imax) 1909.86	—
(50%Imax) 2387.32	—
(60%Imax) 2864.78	—
(70%Imax) 3342.25	—
(80%Imax) 3819.71	—
(90%Imax) 4297.18	—



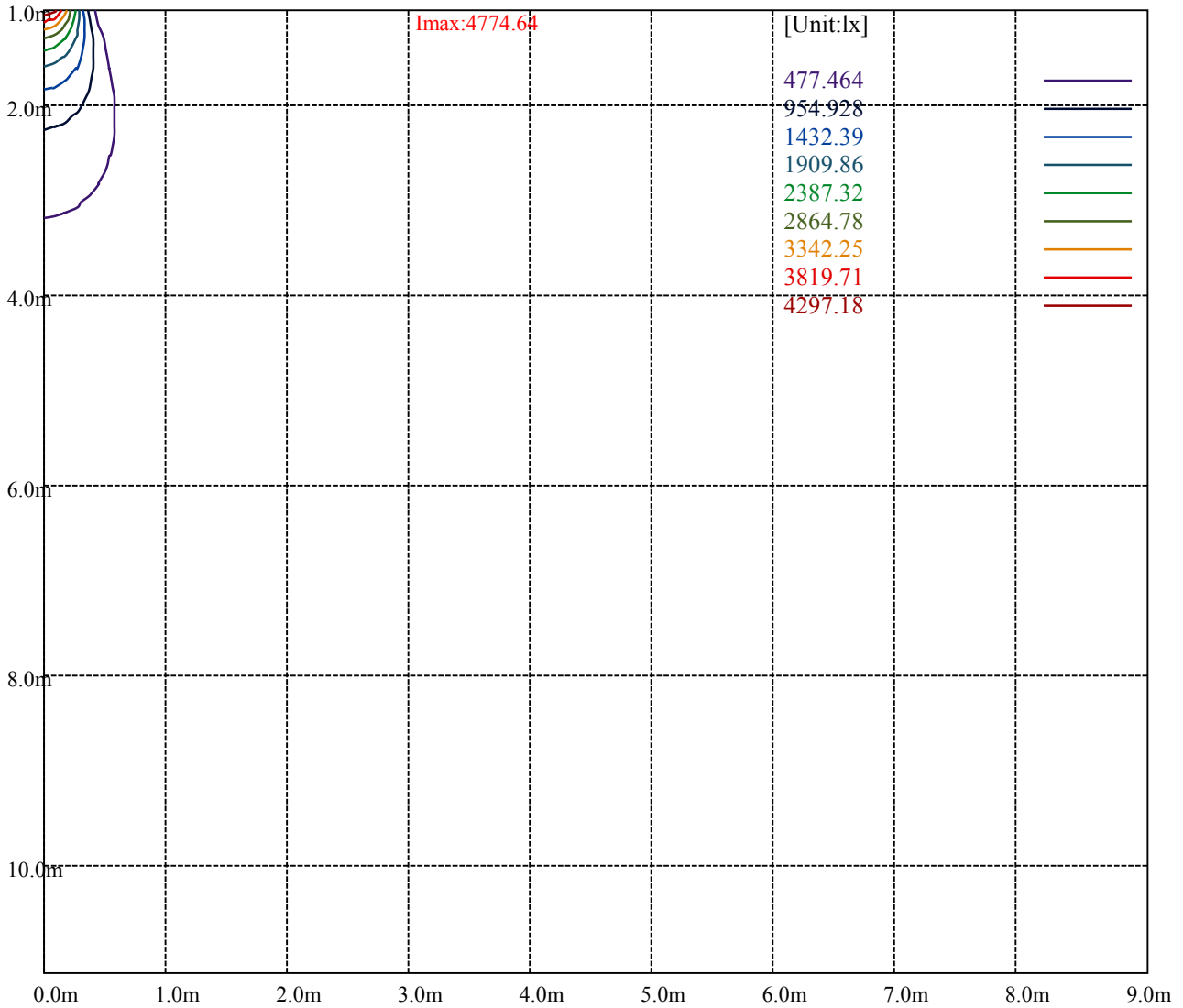
House

[Unit:cd]

Road

Imax:4774.64

(10%Imax) 477.464	—
(20%Imax) 954.928	—
(30%Imax) 1432.39	—
(40%Imax) 1909.86	—
(50%Imax) 2387.32	—
(60%Imax) 2864.78	—
(70%Imax) 3342.25	—
(80%Imax) 3819.71	—
(90%Imax) 4297.18	—



Luminance Table

γ	45	50	55	60	65	70	75	80	85
C0	347	339	343	353	372	398	435	472	528
C45	374	370	378	394	421	458	511	568	658
C90	484	498	534	590	676	807	1023	1385	2290

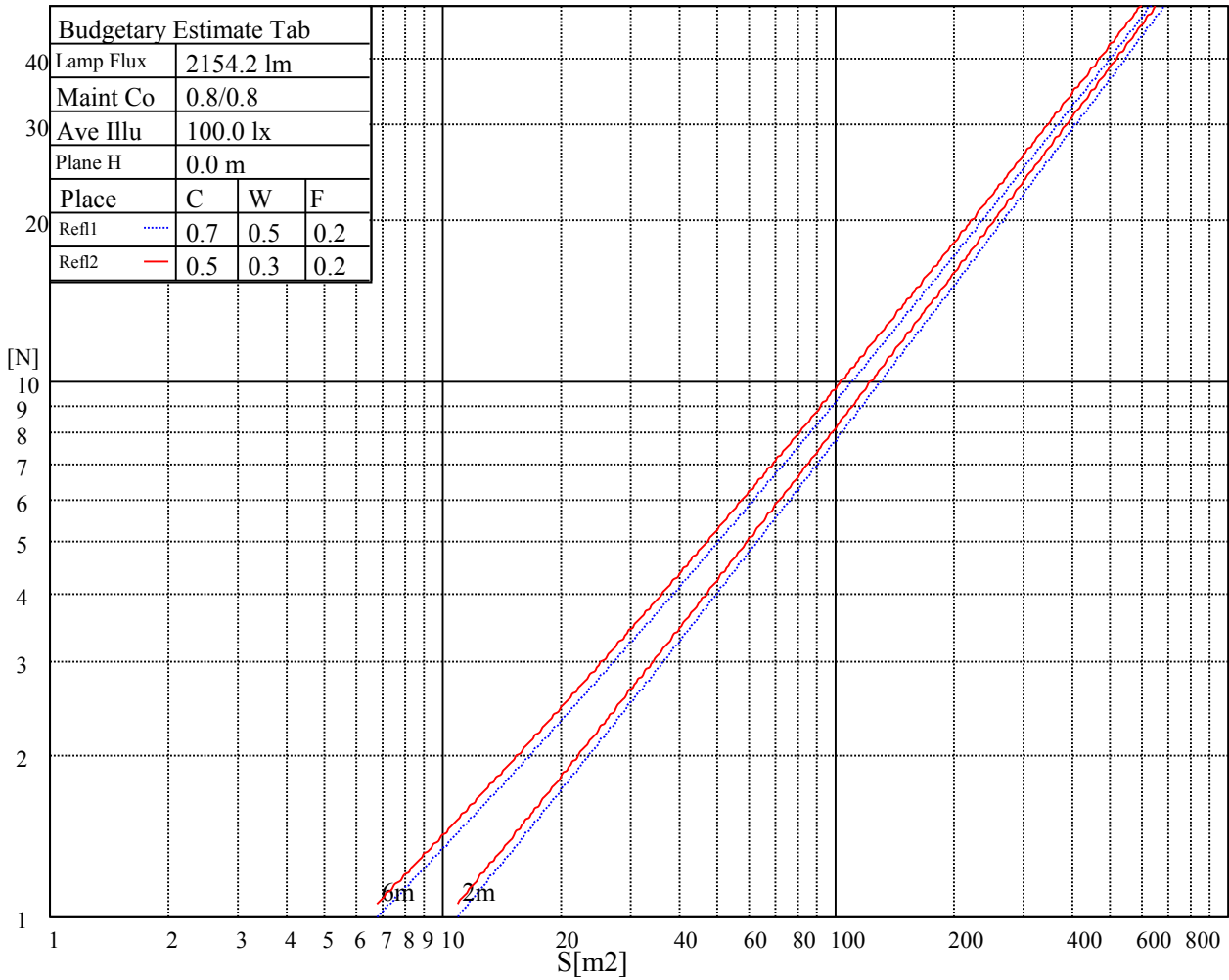
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
727	727	727	1157	1157	1157	3208	3208	3208

Glare Table

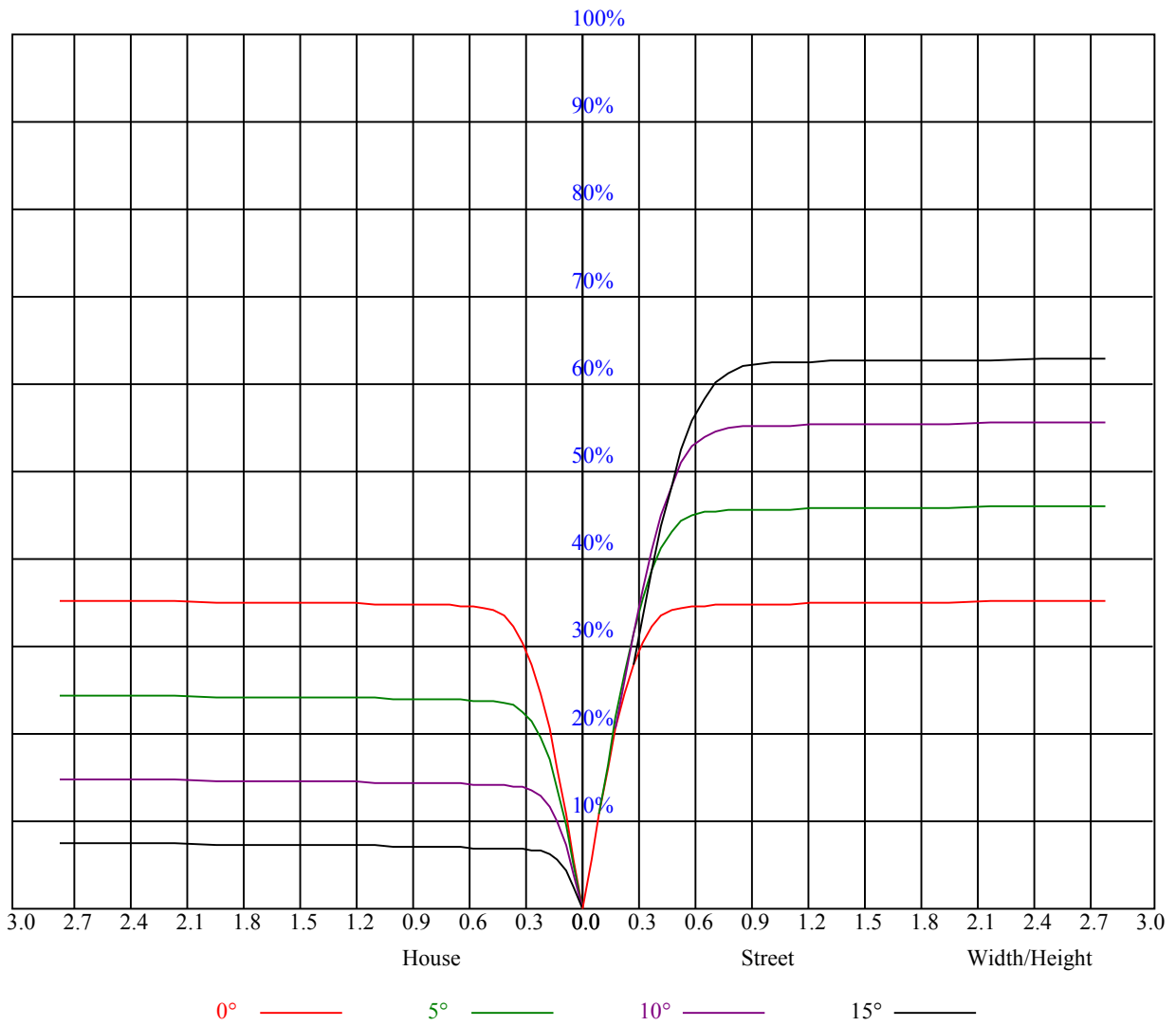
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.80	0.80	0.80	0.76	0.76	0.76	0.73	0.73	0.73	0.72
1	0.80	0.79	0.78	0.79	0.78	0.76	0.76	0.75	0.74	0.73	0.73	0.72	0.71	0.70	0.70	0.69
2	0.76	0.74	0.72	0.75	0.73	0.71	0.73	0.71	0.70	0.71	0.70	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	0.69	0.67	0.65	0.67	0.66	0.64	0.63
4	0.70	0.67	0.65	0.69	0.66	0.64	0.68	0.65	0.64	0.66	0.64	0.63	0.65	0.63	0.62	0.61
5	0.67	0.64	0.62	0.67	0.64	0.61	0.65	0.63	0.61	0.64	0.62	0.60	0.63	0.61	0.60	0.59
6	0.65	0.62	0.59	0.64	0.61	0.59	0.63	0.61	0.59	0.62	0.60	0.58	0.61	0.60	0.58	0.57
7	0.62	0.59	0.57	0.62	0.59	0.57	0.61	0.59	0.57	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	0.57	0.55	0.59	0.56	0.55	0.58	0.56	0.54	0.54
9	0.58	0.55	0.53	0.58	0.55	0.53	0.58	0.55	0.53	0.57	0.55	0.53	0.56	0.54	0.53	0.52
10	0.57	0.54	0.52	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 1-1007-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	4787.44	4563.00	3962.81	2978.44	1619.44	491.63	37.80	13.16	10.24
45.0	4774.50	4507.88	3859.31	2852.44	1469.25	357.75	29.93	12.38	10.24
90.0	4763.25	4541.06	3879.56	2827.69	1083.66	383.29	32.46	12.38	10.01
135.0	4773.38	4668.75	4163.06	3349.13	2062.13	711.00	87.13	14.34	10.29
180.0	4787.44	4590.56	4037.06	3053.81	1779.19	518.96	55.41	13.11	9.90
225.0	4774.50	4629.38	4054.50	3078.00	1882.69	589.95	62.72	15.64	10.97
270.0	4763.25	4601.25	4029.75	3038.06	1837.69	556.88	53.33	15.19	10.86
315.0	4773.38	4433.63	3769.31	2641.50	1111.16	267.19	28.97	12.38	9.96
360.0	4787.44	4563.00	3962.81	2978.44	1619.44	491.63	37.80	13.16	10.24
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	8.89	8.33	7.99	7.71	7.54	7.37	7.31	7.14	7.09
45.0	9.28	8.83	8.49	8.38	8.33	8.33	8.33	7.71	7.43
90.0	9.06	8.66	8.44	8.27	8.16	8.04	7.88	7.59	7.31
135.0	9.00	8.33	7.99	7.76	7.54	7.37	7.31	7.20	7.09
180.0	8.72	8.21	7.93	7.71	7.54	7.37	7.26	7.09	6.86
225.0	9.45	8.89	8.55	8.33	8.27	8.21	8.21	7.65	7.26
270.0	9.45	8.89	8.61	8.33	8.16	7.99	7.82	7.59	7.20
315.0	8.89	8.33	7.99	7.71	7.54	7.43	7.31	7.20	7.14
360.0	8.89	8.33	7.99	7.71	7.54	7.37	7.31	7.14	7.09
C/γ(°)	90.0								
0.0	6.81								
45.0	7.14								
90.0	7.14								
135.0	6.98								
180.0	6.86								
225.0	7.14								
270.0	7.14								
315.0	6.98								
360.0	6.81								