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## Nata

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LumCAT: 1-1007-M  
Luminaire: BJB 47.360.1020  
Report No: 210720-B003  
Test No: 210720-C003  
LampCAT: Fortimo LED SLM 1204 G7N  
Lamp flux(lm): 2455.6  
Number of Lamps: 1  
Length(mm): 570  
Phm Type: C

Voltage(V): 36.4300  
Current(A): 0.5110  
Power (W): 18.6150  
PF: 0.0000  
Ballast type: DC  
Width(mm): 45  
Height(mm): 20

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## Photometric Results

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Lumens(lm): 1794.70  
Efficiency(%): 73.09%  
Lumens(lm)/Power(W): 96.41  
Central intensity(cd): 5596.875  
Maximum intensity(cd): 5596.875  
Angle of maximum intensity: C=0.0  $\gamma$ =0.0  
Beam Angle(50%Imax): [C0/180]Total=34.0  
                                  [C90/270]Total=34.0  
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=0.53 C90\_270=0.53  
Up flux rate of lamp(%): 0.00%  
Down flux rate of lamp(%): 73.09%  
Up flux rate of LUM(%): - -  
Down flux rate of LUM(%): 100.00%  
CIE Type : Direct lighting  
Output flux ratio in  $\pi$  solid angle : 98.500%

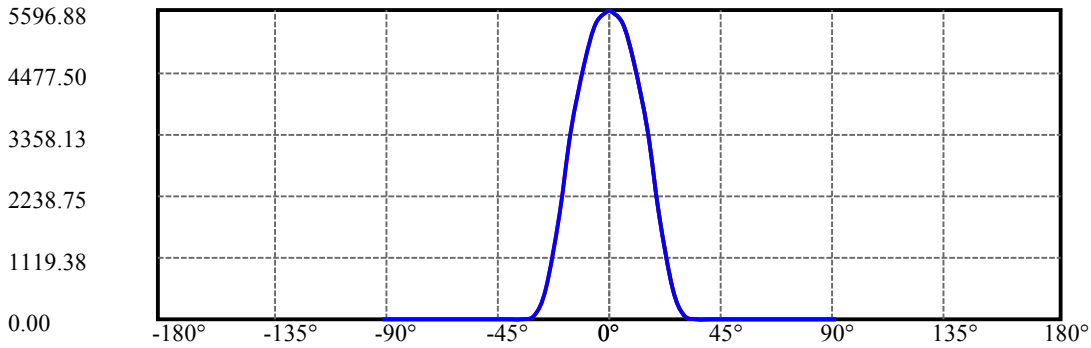
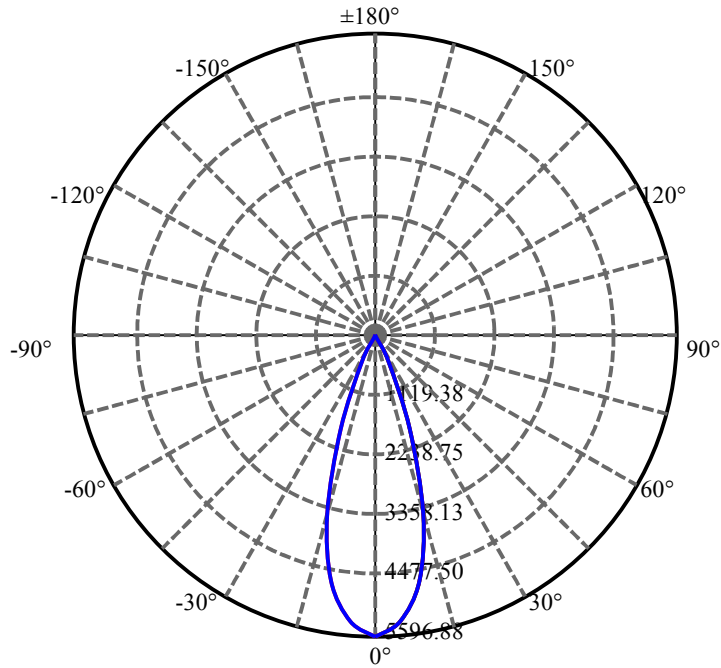
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5596.875	0.000	0	.000%	.000%
5.0	5339.813	130.745	130.745	5.324%	7.285%
10.0	4619.813	356.287	487.032	14.509%	27.137%
15.0	3417.469	476.766	963.798	19.416%	53.702%
20.0	1864.540	435.312	1399.11	17.727%	77.958%
25.0	549.647	253.204	1652.314	10.311%	92.066%
30.0	81.563	79.880	1732.194	3.253%	96.517%
35.0	16.031	14.371	1746.565	.585%	97.318%
40.0	11.805	4.644	1751.209	.189%	97.577%
45.0	10.371	4.106	1755.316	.167%	97.805%
50.0	9.724	4.061	1759.376	.165%	98.032%
55.0	9.338	4.145	1763.521	.169%	98.262%
60.0	9.084	4.258	1767.779	.173%	98.500%
65.0	8.895	4.371	1772.15	.178%	98.743%
70.0	8.803	4.481	1776.631	.182%	98.993%
75.0	8.698	4.574	1781.205	.186%	99.248%
80.0	8.430	4.583	1785.788	.187%	99.503%
85.0	8.135	4.501	1790.289	.183%	99.754%
90.0	7.988	4.415	1794.704	.180%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1732.19	70.54%	96.52%
0-40	1751.21	71.32%	97.58%
0-60	1767.78	71.99%	98.50%
0-90	1790.29	72.91%	99.75%
0-120	1790.29	72.91%	99.75%
0-180	1794.70	73.09%	100.00%
60-90	26.77	1.09%	1.49%
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%
0-20.72	1435.76	58.47%	80.00%

ZONAL LUMEN SUMMARY

0-10	487.03
10-20	912.08
20-30	333.08
30-40	19.02
40-50	8.17
50-60	8.40
60-70	8.85
70-80	9.16
80-90	4.50
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: —————

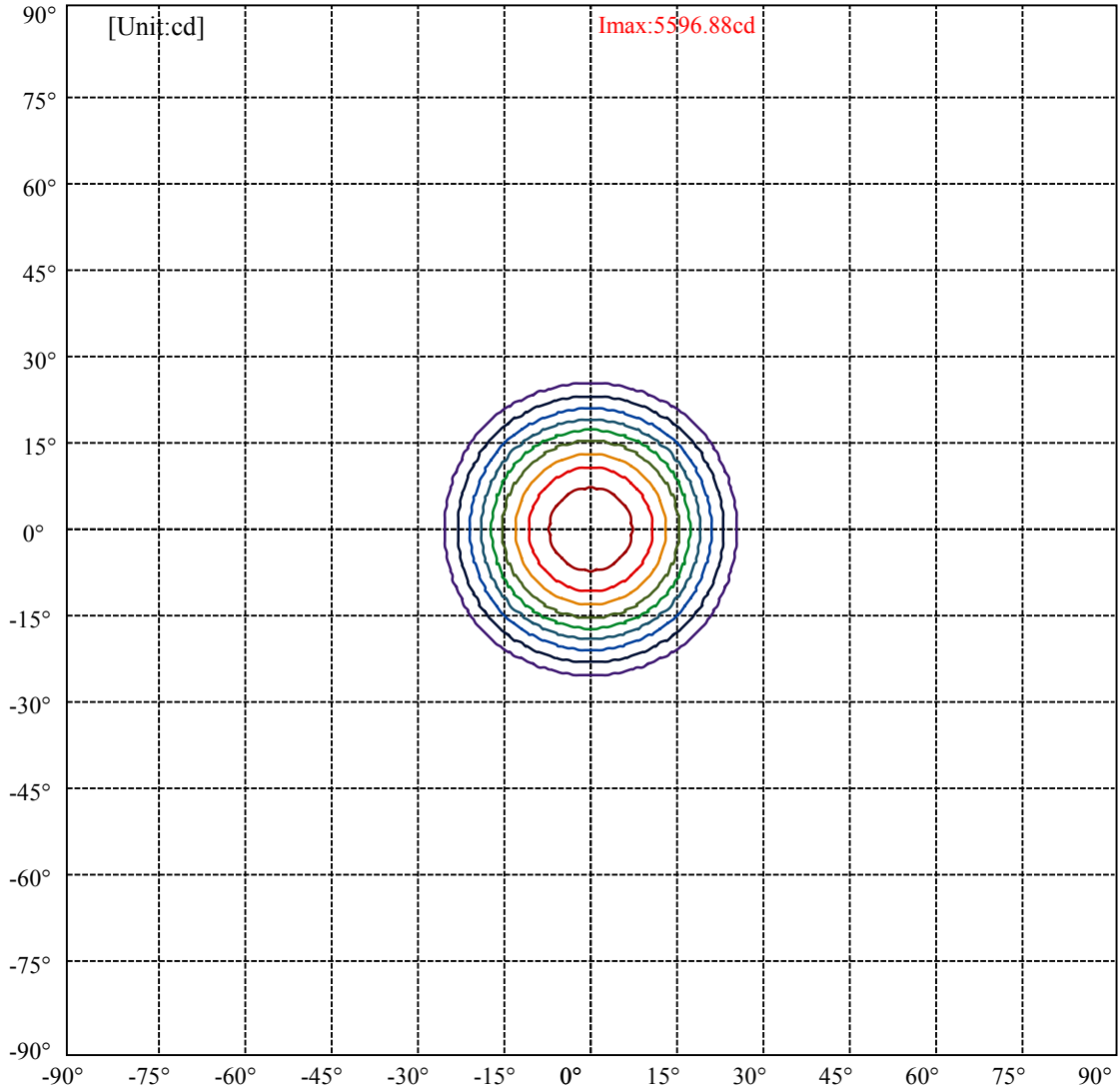
Field angle(10%Imax):C0/180Left:25.0 Right:25.0

:C90/270Left:25.0 Right:25.0

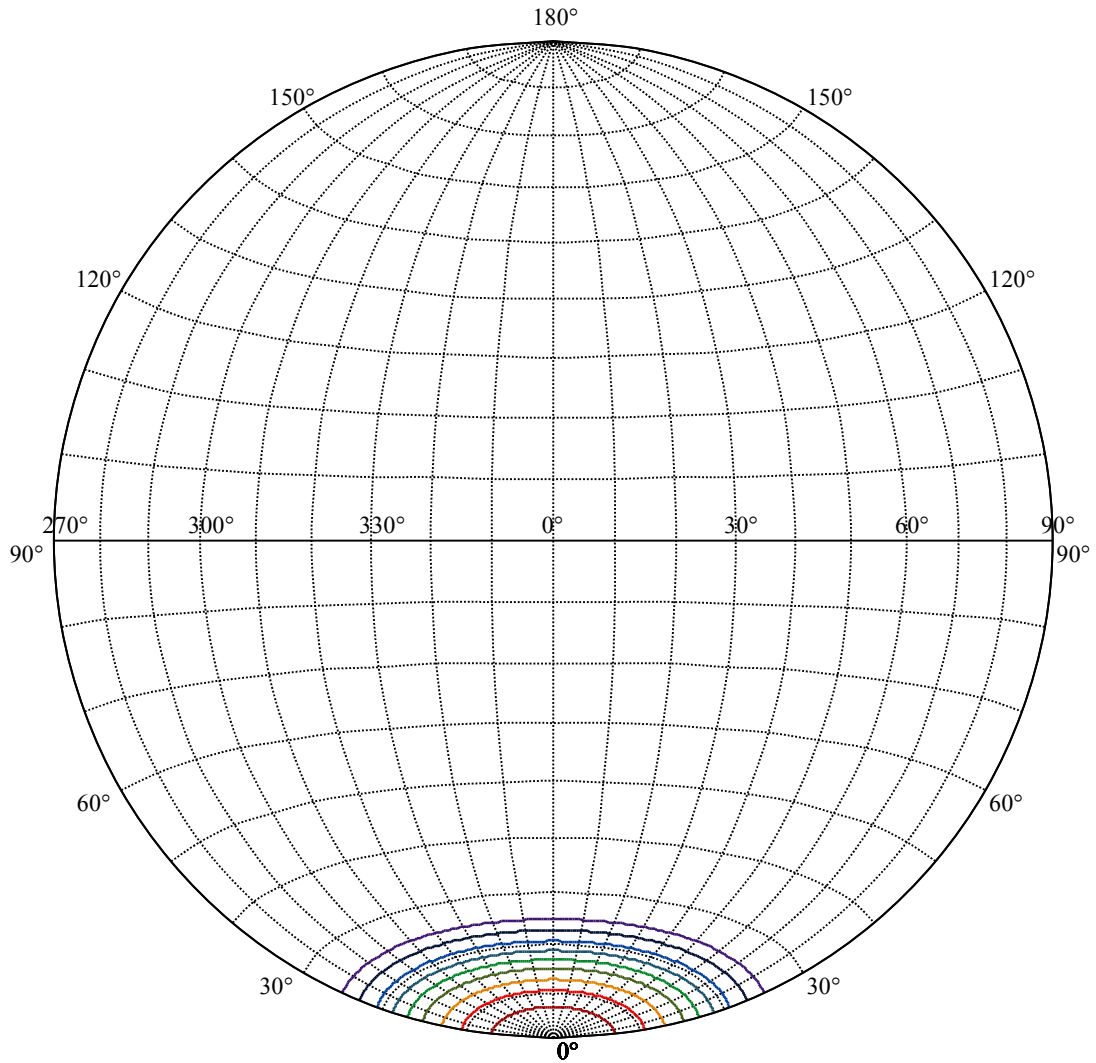
Beam Angle(50%Imax):C0/180Left:17.0 Right:17.0

:C90/270Left:17.0 Right:17.0





(10%Imax) 559.688	—
(20%Imax) 1119.38	—
(30%Imax) 1679.06	—
(40%Imax) 2238.75	—
(50%Imax) 2798.44	—
(60%Imax) 3358.13	—
(70%Imax) 3917.81	—
(80%Imax) 4477.5	—
(90%Imax) 5037.19	—



House

[Unit:cd]

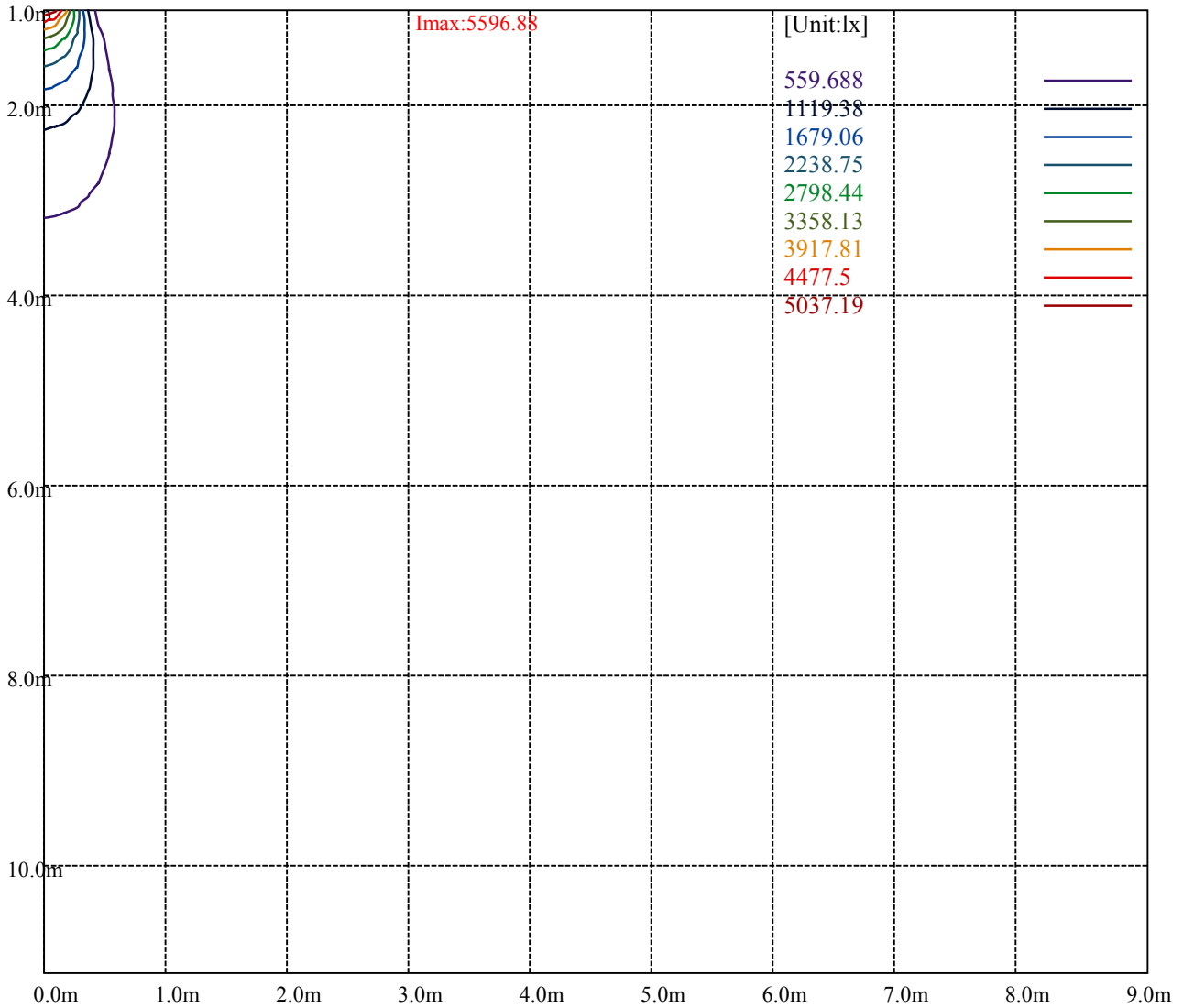
Road

**Imax:5596.88**

(10%Imax) 559.688	—
(20%Imax) 1119.38	—
(30%Imax) 1679.06	—
(40%Imax) 2238.75	—
(50%Imax) 2798.44	—
(60%Imax) 3358.13	—
(70%Imax) 3917.81	—
(80%Imax) 4477.5	—
(90%Imax) 5037.19	—







Luminance Table

$\gamma$	45	50	55	60	65	70	75	80	85
C0	396	386	388	400	420	452	493	538	599
C45	427	420	428	446	475	519	578	648	746
C90	552	566	604	668	763	915	1158	1579	2597

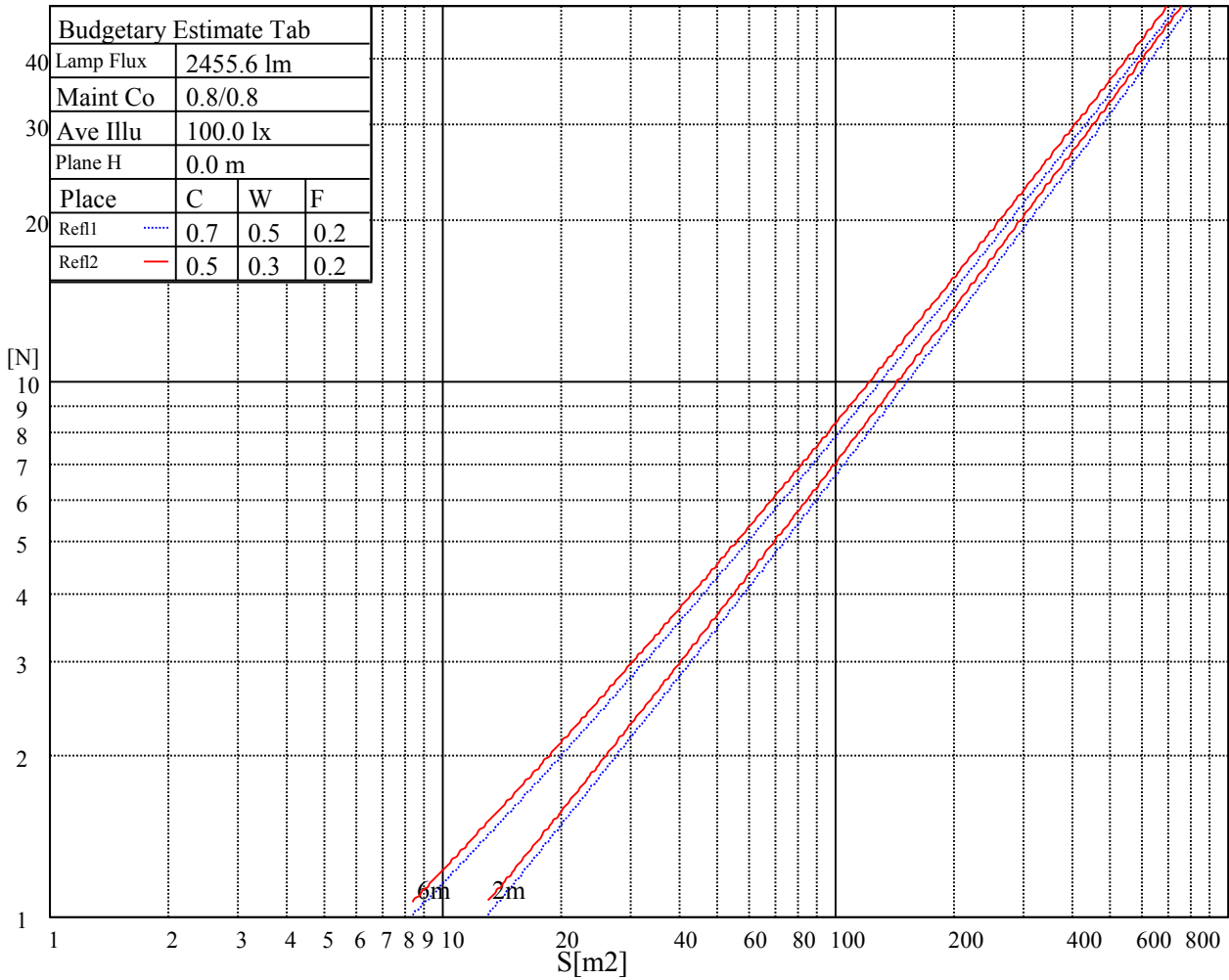
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
821	821	821	1310	1310	1310	3639	3639	3639

Glare Table

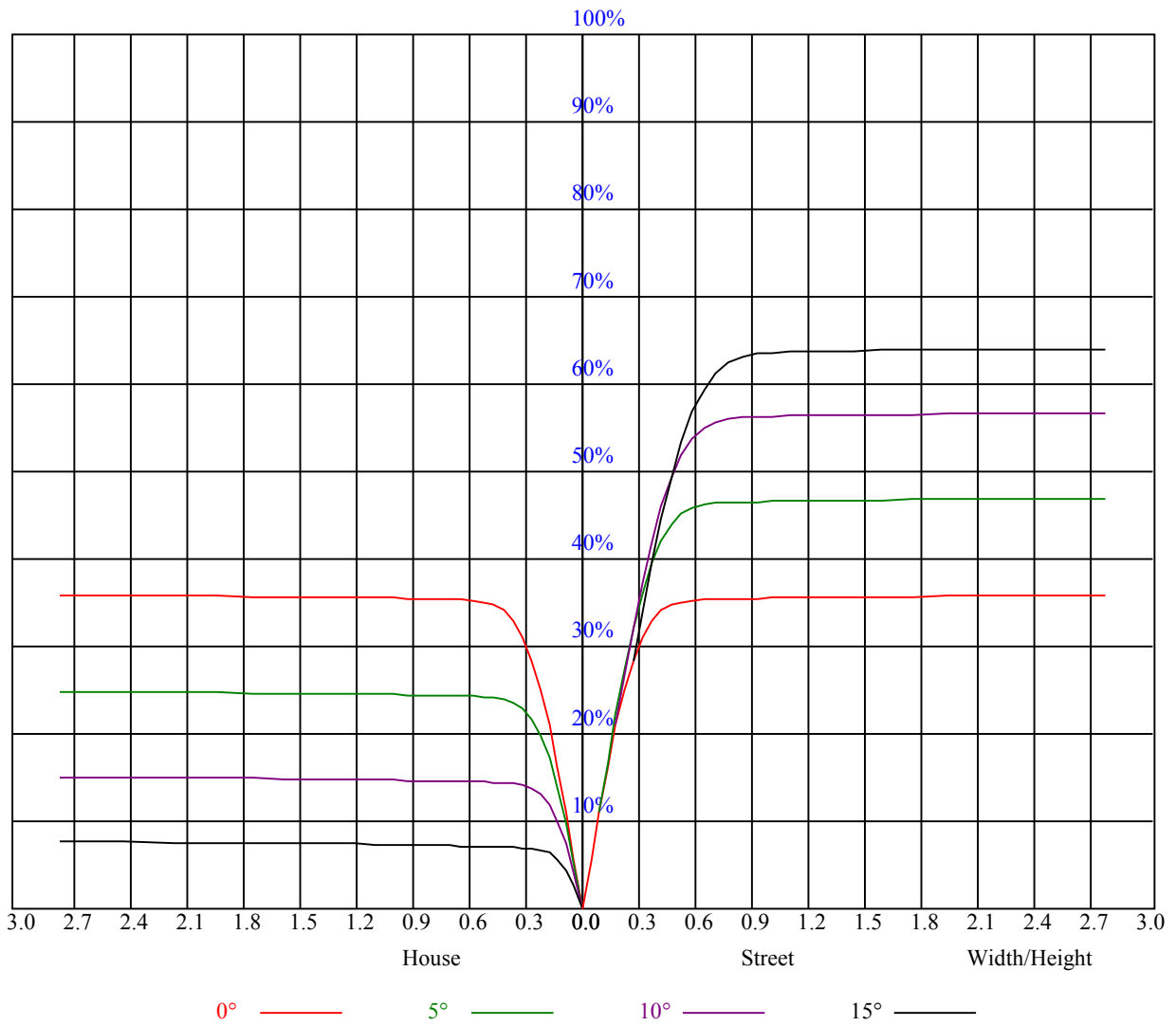
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.81	0.81	0.81	0.78	0.78	0.78	0.75	0.75	0.75	0.73
1	0.82	0.81	0.79	0.80	0.79	0.78	0.78	0.76	0.76	0.75	0.74	0.73	0.72	0.72	0.71	0.70
2	0.78	0.76	0.74	0.77	0.75	0.73	0.74	0.73	0.71	0.72	0.71	0.70	0.70	0.69	0.68	0.67
3	0.74	0.72	0.69	0.73	0.71	0.69	0.72	0.69	0.68	0.70	0.68	0.67	0.68	0.67	0.66	0.65
4	0.71	0.68	0.66	0.70	0.68	0.65	0.69	0.67	0.65	0.68	0.66	0.64	0.66	0.65	0.63	0.62
5	0.68	0.65	0.63	0.68	0.65	0.63	0.67	0.64	0.62	0.66	0.63	0.62	0.64	0.63	0.61	0.60
6	0.66	0.63	0.60	0.65	0.62	0.60	0.64	0.62	0.60	0.64	0.61	0.59	0.63	0.61	0.59	0.58
7	0.64	0.60	0.58	0.63	0.60	0.58	0.62	0.60	0.58	0.62	0.59	0.57	0.61	0.59	0.57	0.56
8	0.61	0.58	0.56	0.61	0.58	0.56	0.60	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	0.57	0.54	0.52	0.57	0.54	0.52	0.56	0.54	0.52	0.56	0.54	0.52	0.51



Intensity data(cd)

C/ $\gamma$ (°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	5600.81	5416.88	4824.00	3672.00	2138.06	625.50	66.94	16.93	12.09
45.0	5601.38	5249.25	4421.25	3096.00	1569.94	321.19	31.50	13.50	11.25
90.0	5579.44	5124.38	4204.13	2734.31	1045.63	198.34	22.50	13.11	11.08
135.0	5605.88	5334.75	4532.06	3400.88	1809.00	416.25	39.32	13.89	11.25
180.0	5600.81	5258.81	4516.31	3251.81	1450.13	441.79	38.53	13.78	11.08
225.0	5601.38	5453.44	4808.81	3759.19	2300.63	764.38	104.18	18.06	12.15
270.0	5579.44	5501.25	4951.69	3923.44	2590.88	1013.63	284.63	22.61	13.22
315.0	5605.88	5379.75	4700.25	3502.13	2012.06	616.11	64.91	16.37	12.32
360.0	5600.81	5416.88	4824.00	3672.00	2138.06	625.50	66.94	16.93	12.09
C/ $\gamma$ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	10.52	9.73	9.23	8.94	8.66	8.55	8.44	8.33	8.21
45.0	10.13	9.56	9.28	9.00	8.78	8.72	8.55	8.38	8.04
90.0	10.18	9.73	9.45	9.34	9.28	9.34	9.28	8.33	8.04
135.0	10.24	9.73	9.39	9.17	9.00	8.83	8.72	8.44	8.27
180.0	9.96	9.34	9.00	8.72	8.55	8.44	8.33	8.16	8.10
225.0	10.35	9.62	9.23	8.94	8.78	8.61	8.49	8.38	8.04
270.0	10.97	10.13	9.62	9.34	9.17	9.11	9.11	8.89	8.10
315.0	10.63	9.96	9.51	9.23	8.94	8.83	8.66	8.55	8.27
360.0	10.52	9.73	9.23	8.94	8.66	8.55	8.44	8.33	8.21
C/ $\gamma$ (°)	90.0								
0.0	8.04								
45.0	7.88								
90.0	7.99								
135.0	8.04								
180.0	8.04								
225.0	7.88								
270.0	7.99								
315.0	8.04								
360.0	8.04								