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## Nata

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LumCAT: 1-1062-N	
Luminaire: 92.70.246.00	
Report No: 210706-B009	Voltage(V): 36.5400
Test No: 210706-C009	Current(A): 0.4510
LampCAT: Fortimo LED SLM 1203 G7N	Power (W): 16.7490
Lamp flux(lm): 2143.4	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 570	Width(mm): 45
Phm Type: C	Height(mm): 20

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## Photometric Results

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Lumens(lm): 1747.60  
Efficiency(%): 81.53%  
Lumens(lm)/Power(W): 104.34  
Central intensity(cd): 4367.671  
Maximum intensity(cd): 4367.671  
Angle of maximum intensity: C=0.0  $\gamma$ =0.0  
Beam Angle(50%Imax): [C0/180]Total=35.8  
                                  [C90/270]Total=35.8  
Field angle(10%Imax): [C0/180]Total=58.7  
                                  [C90/270]Total=58.7  
Maximum s/h(1/2): C0\_180=0.59 C90\_270=0.59  
Maximum s/h(1/4): C0\_180=0.59 C90\_270=0.59  
Up flux rate of lamp(%): 0.00%  
Down flux rate of lamp(%): 81.53%  
Up flux rate of LUM(%): - -  
Down flux rate of LUM(%): 100.00%  
CIE Type : Direct lighting  
Output flux ratio in  $\pi$  solid angle : 98.070%

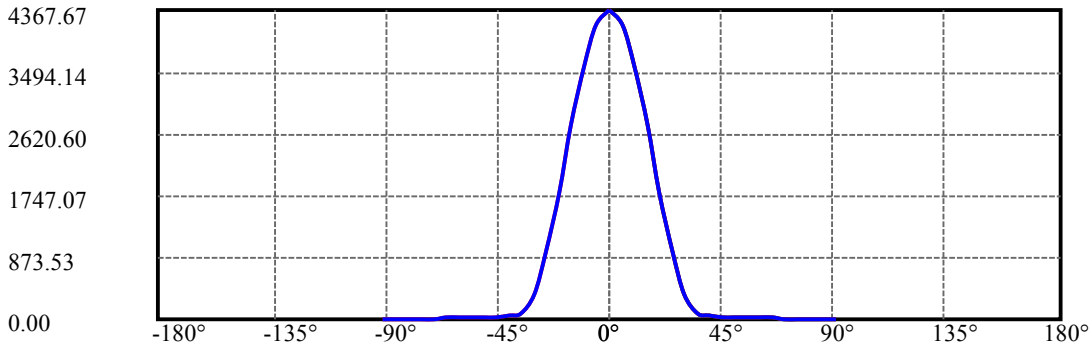
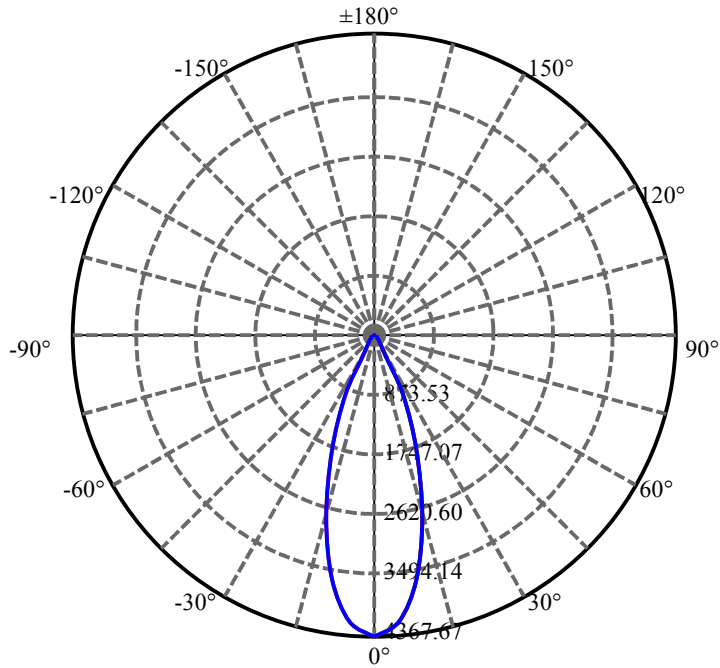
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4367.672	0.000	0	.000%	.000%
5.0	4153.219	101.865	101.865	4.752%	5.829%
10.0	3577.570	276.555	378.419	12.902%	21.654%
15.0	2737.055	374.579	752.999	17.476%	43.088%
20.0	1779.117	372.196	1125.195	17.364%	64.385%
25.0	961.727	287.464	1412.659	13.411%	80.834%
30.0	358.678	167.098	1579.757	7.796%	90.396%
35.0	79.924	64.587	1644.345	3.013%	94.092%
40.0	49.191	21.542	1665.886	1.005%	95.324%
45.0	35.395	15.662	1681.548	.731%	96.221%
50.0	27.464	12.702	1694.25	.593%	96.947%
55.0	21.579	10.664	1704.913	.497%	97.558%
60.0	17.163	8.955	1713.868	.418%	98.070%
65.0	13.725	7.509	1721.377	.350%	98.500%
70.0	11.573	6.406	1727.783	.299%	98.866%
75.0	10.041	5.650	1733.433	.264%	99.190%
80.0	9.070	5.114	1738.546	.239%	99.482%
85.0	8.248	4.706	1743.252	.220%	99.751%
90.0	7.615	4.343	1747.595	.203%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1579.76	73.70%	90.40%
0-40	1665.89	77.72%	95.32%
0-60	1713.87	79.96%	98.07%
0-90	1743.25	81.33%	99.75%
0-120	1743.25	81.33%	99.75%
0-180	1747.60	81.53%	100.00%
60-90	38.34	1.79%	2.19%
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%
0-24.75	1398.08	65.23%	80.00%

ZONAL LUMEN SUMMARY

0-10	378.42
10-20	746.78
20-30	454.56
30-40	86.13
40-50	28.36
50-60	19.62
60-70	13.91
70-80	10.76
80-90	4.71
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: —————

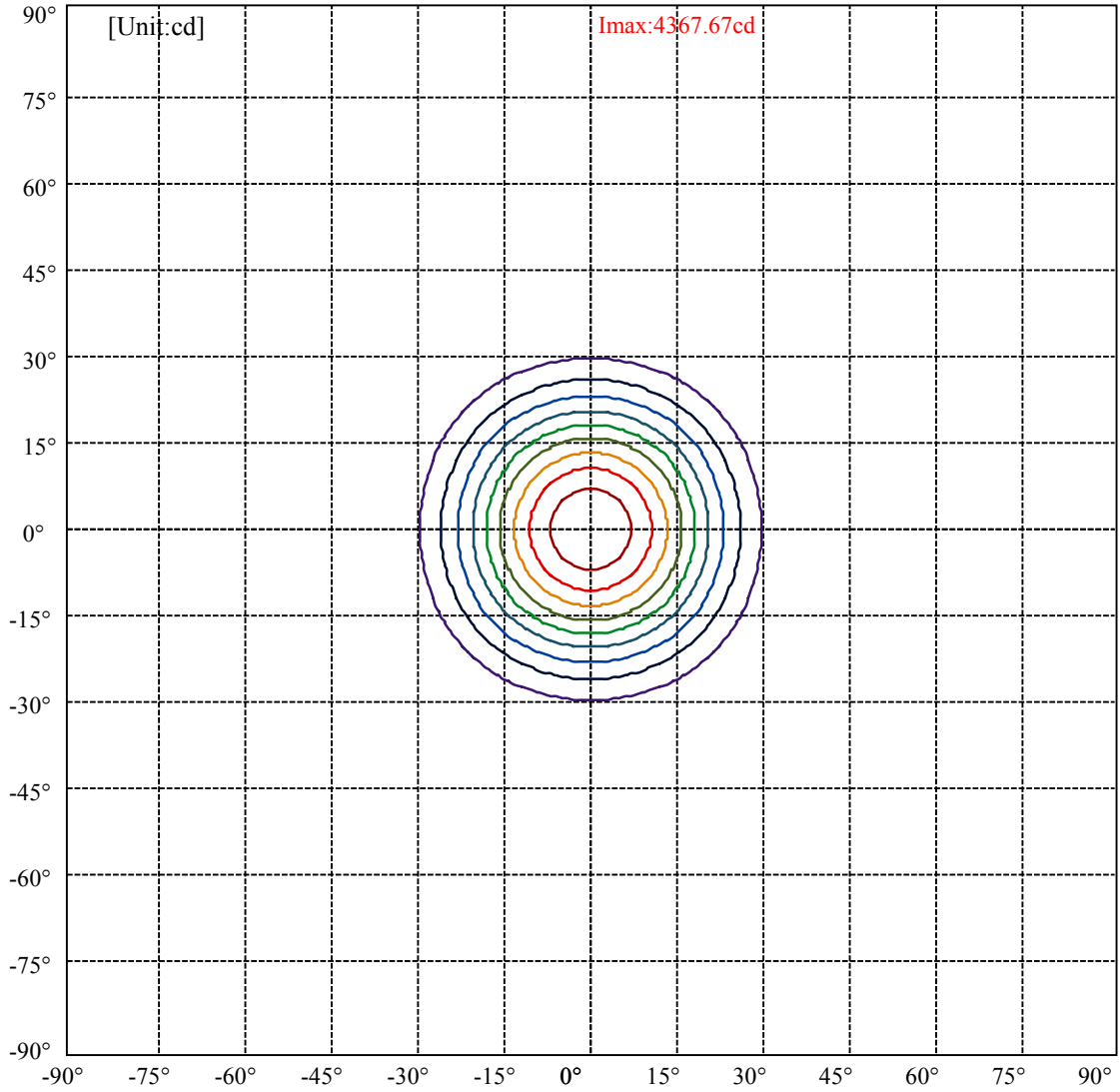
Field angle(10%Imax):C0/180Left:29.4 Right:29.4

:C90/270Left:29.4 Right:29.4

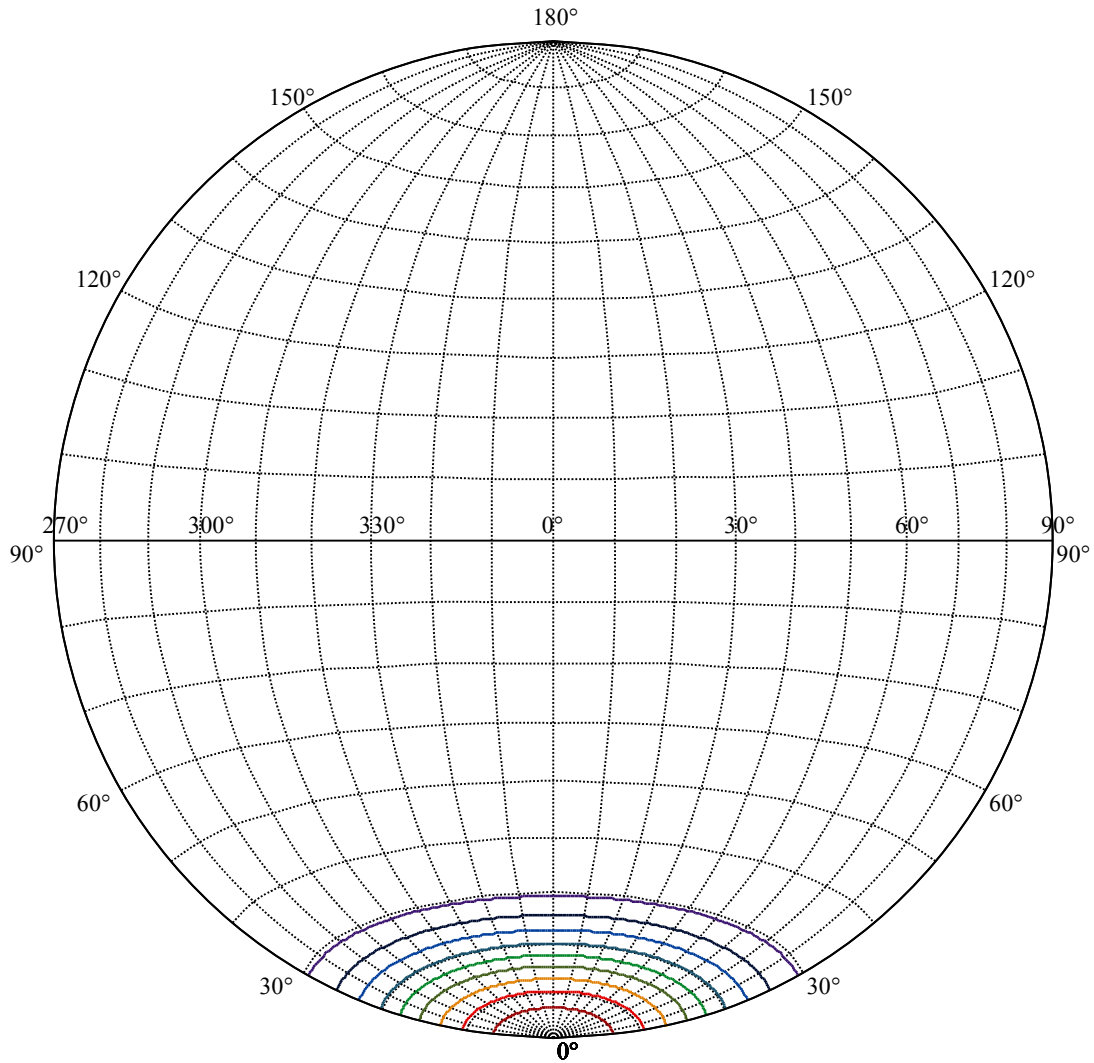
Beam Angle(50%Imax):C0/180Left:17.9 Right:17.9

:C90/270Left:17.9 Right:17.9





(10%Imax) 436.767	—
(20%Imax) 873.534	—
(30%Imax) 1310.3	—
(40%Imax) 1747.07	—
(50%Imax) 2183.84	—
(60%Imax) 2620.6	—
(70%Imax) 3057.37	—
(80%Imax) 3494.14	—
(90%Imax) 3930.9	—



House

[Unit:cd]

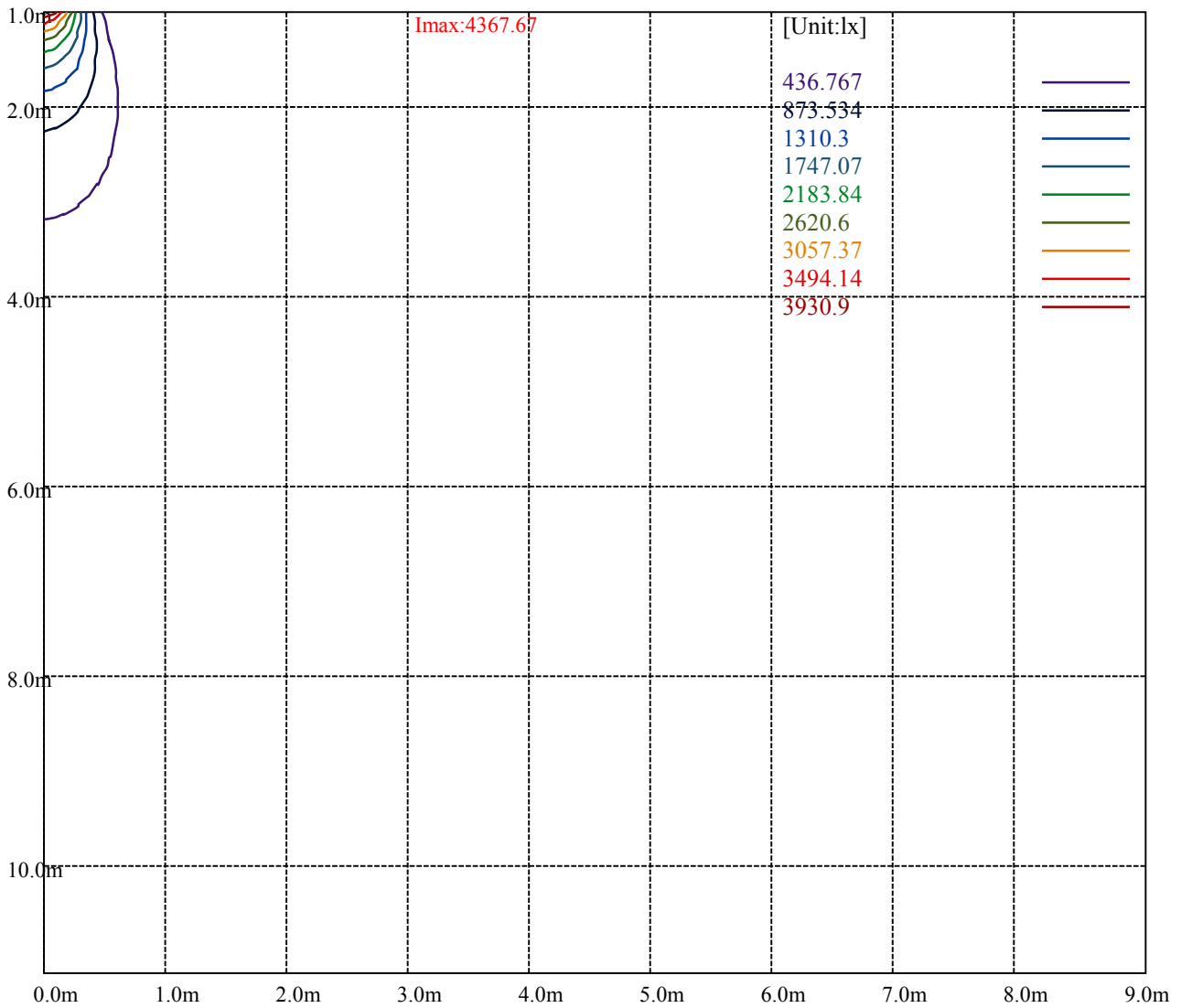
Road

**Imax:4367.67**

(10%Imax) 436.767	—
(20%Imax) 873.534	—
(30%Imax) 1310.3	—
(40%Imax) 1747.07	—
(50%Imax) 2183.84	—
(60%Imax) 2620.6	—
(70%Imax) 3057.37	—
(80%Imax) 3494.14	—
(90%Imax) 3930.9	—







Luminance Table

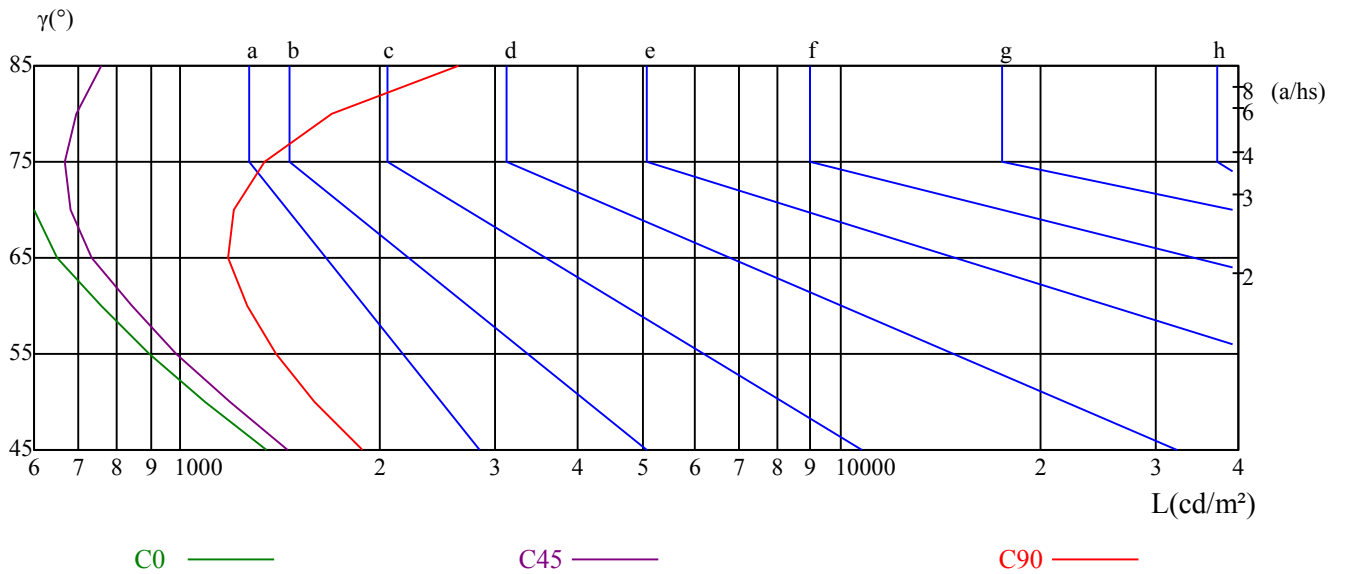
$\gamma$	45	50	55	60	65	70	75	80	85
C0	1351	1089	897	756	648	594	569	578	607
C45	1457	1186	988	843	733	683	668	697	757
C90	1885	1599	1397	1262	1178	1203	1337	1698	2633

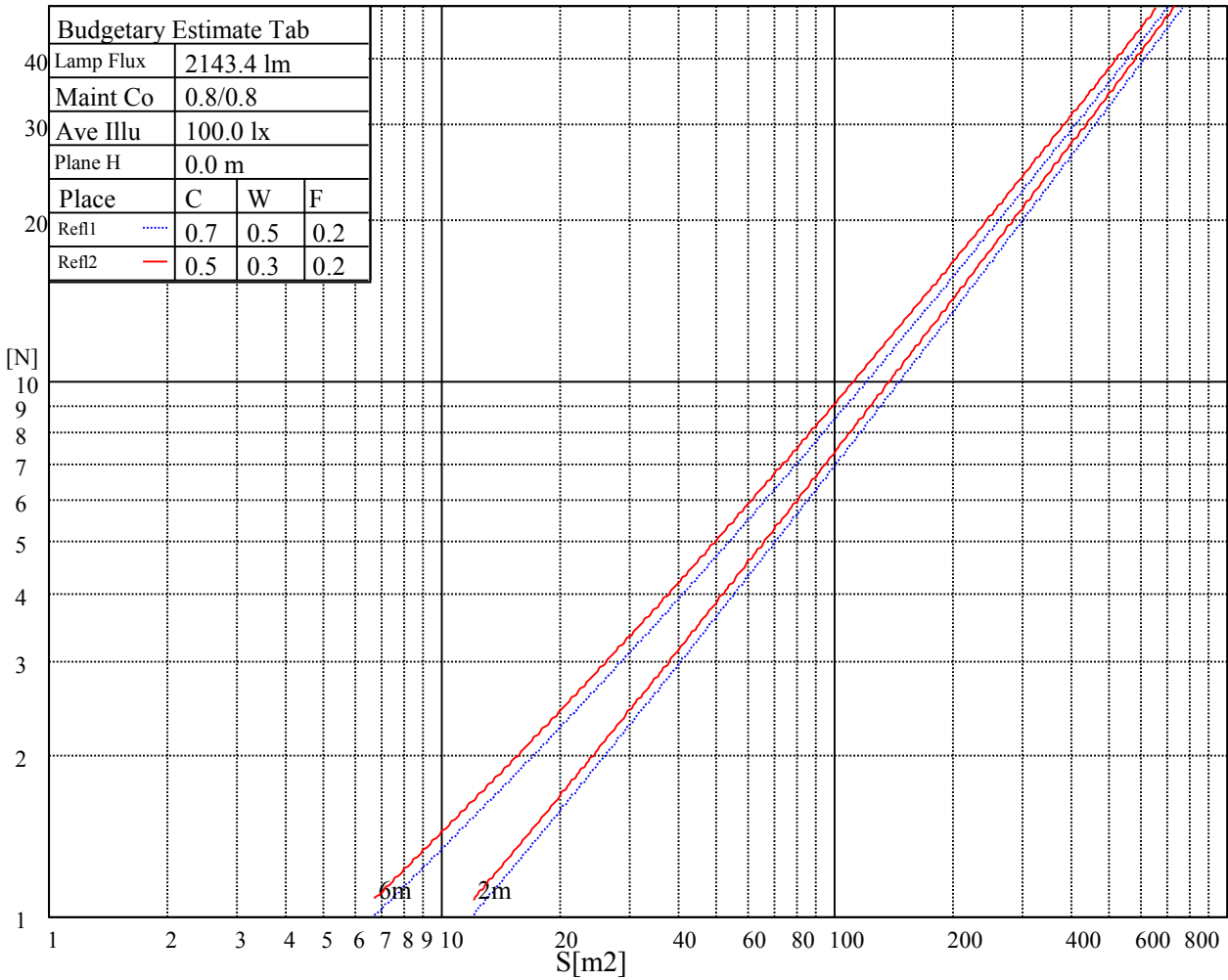
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1266	1266	1266	1512	1512	1512	3689	3689	3689

Glare Table

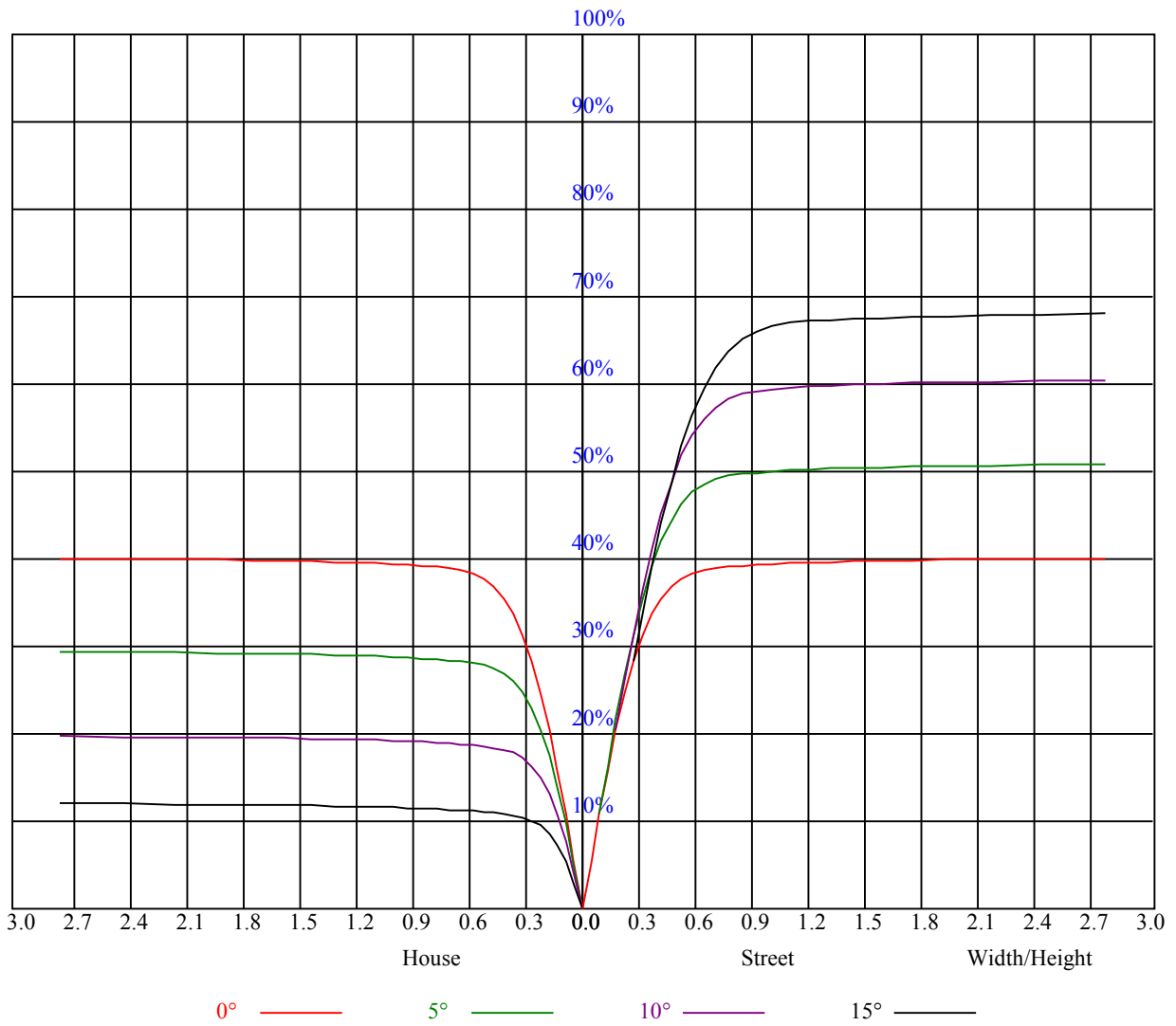
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.97	0.97	0.97	0.95	0.95	0.95	0.91	0.91	0.91	0.87	0.87	0.87	0.83	0.83	0.83	0.82
1	0.91	0.89	0.87	0.89	0.88	0.86	0.86	0.85	0.83	0.83	0.82	0.81	0.80	0.79	0.79	0.77
2	0.86	0.83	0.80	0.84	0.82	0.80	0.82	0.80	0.78	0.79	0.78	0.76	0.77	0.76	0.75	0.73
3	0.81	0.78	0.75	0.80	0.77	0.74	0.78	0.75	0.73	0.76	0.74	0.72	0.74	0.73	0.71	0.70
4	0.77	0.73	0.71	0.76	0.73	0.70	0.75	0.72	0.69	0.73	0.71	0.69	0.72	0.70	0.68	0.67
5	0.74	0.70	0.67	0.73	0.69	0.66	0.72	0.68	0.66	0.70	0.68	0.65	0.69	0.67	0.65	0.64
6	0.70	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.62	0.67	0.64	0.62	0.61
7	0.67	0.63	0.61	0.67	0.63	0.60	0.66	0.63	0.60	0.65	0.62	0.60	0.64	0.62	0.60	0.59
8	0.65	0.61	0.58	0.64	0.61	0.58	0.64	0.60	0.58	0.63	0.60	0.57	0.62	0.59	0.57	0.56
9	0.62	0.58	0.56	0.62	0.58	0.56	0.61	0.58	0.55	0.61	0.57	0.55	0.60	0.57	0.55	0.54
10	0.60	0.56	0.54	0.60	0.56	0.53	0.59	0.56	0.53	0.58	0.55	0.53	0.58	0.55	0.53	0.52



Intensity data(cd)

<b>C/γ(°)</b>	<b>0.0</b>	<b>5.0</b>	<b>10.0</b>	<b>15.0</b>	<b>20.0</b>	<b>25.0</b>	<b>30.0</b>	<b>35.0</b>	<b>40.0</b>
<b>0.0</b>	4359.38	4281.75	3796.88	3083.06	2115.00	1196.44	523.69	103.11	55.13
<b>45.0</b>	4374.56	4167.00	3613.50	2797.88	1793.25	933.75	352.69	75.94	49.56
<b>90.0</b>	4357.69	4026.94	3324.38	2449.13	1509.75	712.80	210.83	65.64	44.61
<b>135.0</b>	4379.06	4091.63	3460.50	2557.13	1666.13	839.25	292.50	72.34	47.31
<b>180.0</b>	4359.38	3985.88	3328.88	2422.13	1306.13	737.55	211.33	61.88	43.37
<b>225.0</b>	4374.56	4143.38	3580.31	2711.81	1778.06	965.98	348.58	74.93	46.97
<b>270.0</b>	4357.69	4282.88	3813.75	3008.81	2081.81	1222.31	510.19	98.04	54.51
<b>315.0</b>	4379.06	4246.31	3702.38	2866.50	1982.81	1085.74	419.63	87.53	52.09
<b>360.0</b>	4359.38	4281.75	3796.88	3083.06	2115.00	1196.44	523.69	103.11	55.13
<b>C/γ(°)</b>	<b>45.0</b>	<b>50.0</b>	<b>55.0</b>	<b>60.0</b>	<b>65.0</b>	<b>70.0</b>	<b>75.0</b>	<b>80.0</b>	<b>85.0</b>
<b>0.0</b>	39.54	29.59	23.12	18.62	14.63	12.15	10.46	9.39	8.61
<b>45.0</b>	35.83	27.73	21.71	17.21	13.78	11.53	10.18	9.23	8.21
<b>90.0</b>	33.08	25.93	20.19	15.86	13.05	11.03	9.68	8.89	7.93
<b>135.0</b>	33.92	26.72	20.87	16.54	13.44	11.36	9.84	8.83	8.04
<b>180.0</b>	32.06	25.37	20.08	16.03	12.94	11.03	9.68	8.78	8.04
<b>225.0</b>	34.31	26.83	21.26	17.04	13.56	11.42	9.96	9.00	8.27
<b>270.0</b>	37.86	29.03	23.06	18.34	14.51	12.26	10.35	9.28	8.38
<b>315.0</b>	36.56	28.52	22.33	17.66	13.89	11.81	10.18	9.17	8.49
<b>360.0</b>	39.54	29.59	23.12	18.62	14.63	12.15	10.46	9.39	8.61
<b>C/γ(°)</b>	<b>90.0</b>								
<b>0.0</b>	7.76								
<b>45.0</b>	7.54								
<b>90.0</b>	7.54								
<b>135.0</b>	7.59								
<b>180.0</b>	7.65								
<b>225.0</b>	7.54								
<b>270.0</b>	7.65								
<b>315.0</b>	7.65								
<b>360.0</b>	7.76								