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## Nata

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LumCAT: 1-0937-N	
Luminaire: 92.70.246.00	
Report No: 210630-B002	Voltage(V): 39.6300
Test No: 210630-C002	Current(A): 0.2510
LampCAT: Fortimo LED SLM 1201 G7N	Power (W): 9.9470
Lamp flux(lm): 1156.7	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): 907.18  
Efficiency(%): 78.43%  
Lumens(lm)/Power(W): 91.20  
Central intensity(cd): 2423.953  
Maximum intensity(cd): 2423.953  
Angle of maximum intensity: C=0.0  $\gamma$ =0.0  
Beam Angle(50%Imax): [C0/180]Total=34.4  
                                  [C90/270]Total=34.4  
Field angle(10%Imax): [C0/180]Total=57.1  
                                  [C90/270]Total=57.1  
Maximum s/h(1/2): C0\_180=0.57 C90\_270=0.57  
Maximum s/h(1/4): C0\_180=0.57 C90\_270=0.57  
Up flux rate of lamp(%): 0.00%  
Down flux rate of lamp(%): 78.43%  
Up flux rate of LUM(%): - -  
Down flux rate of LUM(%): 100.00%  
CIE Type : Direct lighting  
Output flux ratio in  $\pi$  solid angle : 98.184%

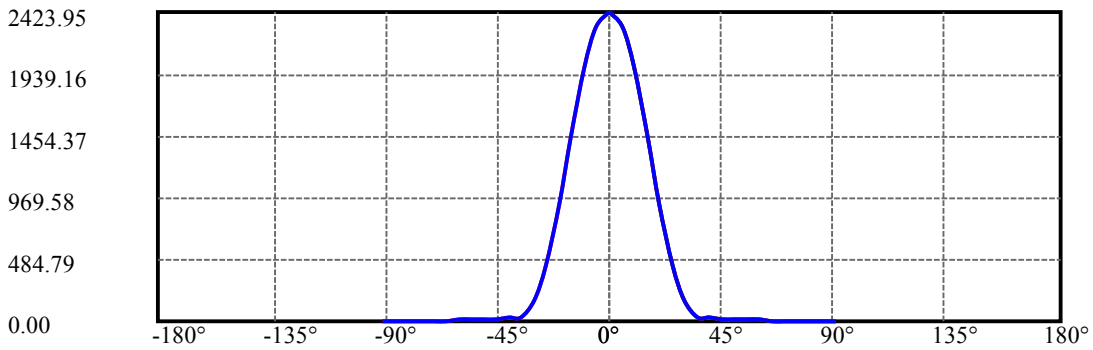
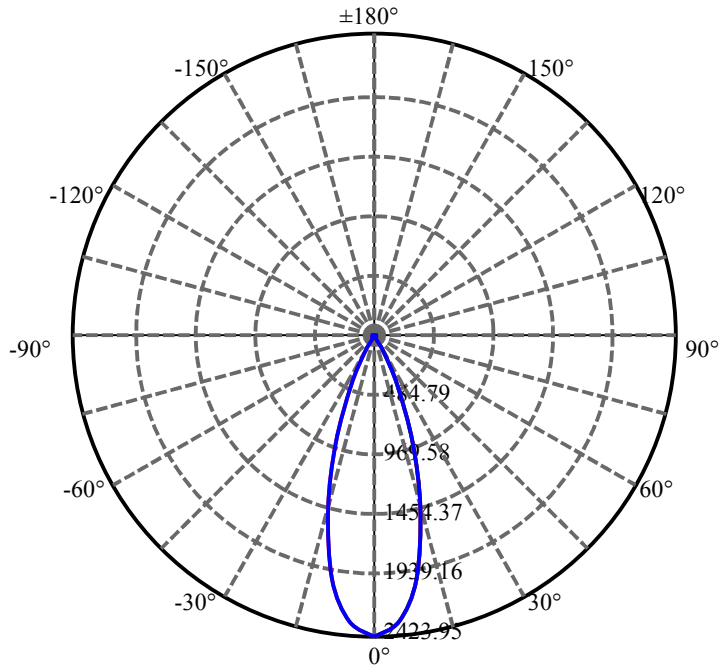
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2423.953	0.000	0	.000%	.000%
5.0	2307.234	56.560	56.56	4.890%	6.235%
10.0	1986.750	153.609	210.169	13.280%	23.167%
15.0	1443.375	203.473	413.642	17.591%	45.597%
20.0	922.226	194.959	608.601	16.855%	67.087%
25.0	443.243	143.212	751.813	12.381%	82.874%
30.0	159.026	76.218	828.031	6.589%	91.275%
35.0	37.034	28.871	856.902	2.496%	94.458%
40.0	25.601	10.450	867.352	.903%	95.610%
45.0	17.965	8.067	875.419	.697%	96.499%
50.0	13.113	6.280	881.698	.543%	97.191%
55.0	9.724	4.966	886.664	.429%	97.739%
60.0	7.748	4.039	890.703	.349%	98.184%
65.0	6.448	3.451	894.154	.298%	98.564%
70.0	5.667	3.068	897.221	.265%	98.902%
75.0	5.048	2.801	900.022	.242%	99.211%
80.0	4.620	2.587	902.609	.224%	99.496%
85.0	4.184	2.392	905.001	.207%	99.760%
90.0	3.769	2.177	907.179	.188%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	828.03	71.59%	91.28%
0-40	867.35	74.99%	95.61%
0-60	890.70	77.01%	98.18%
0-90	905.00	78.24%	99.76%
0-120	905.00	78.24%	99.76%
0-180	907.18	78.43%	100.00%
60-90	18.34	1.59%	2.02%
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%
0-24.09	725.74	62.74%	80.00%

ZONAL LUMEN SUMMARY

0-10	210.17
10-20	398.43
20-30	219.43
30-40	39.32
40-50	14.35
50-60	9.00
60-70	6.52
70-80	5.39
80-90	2.39
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: ———

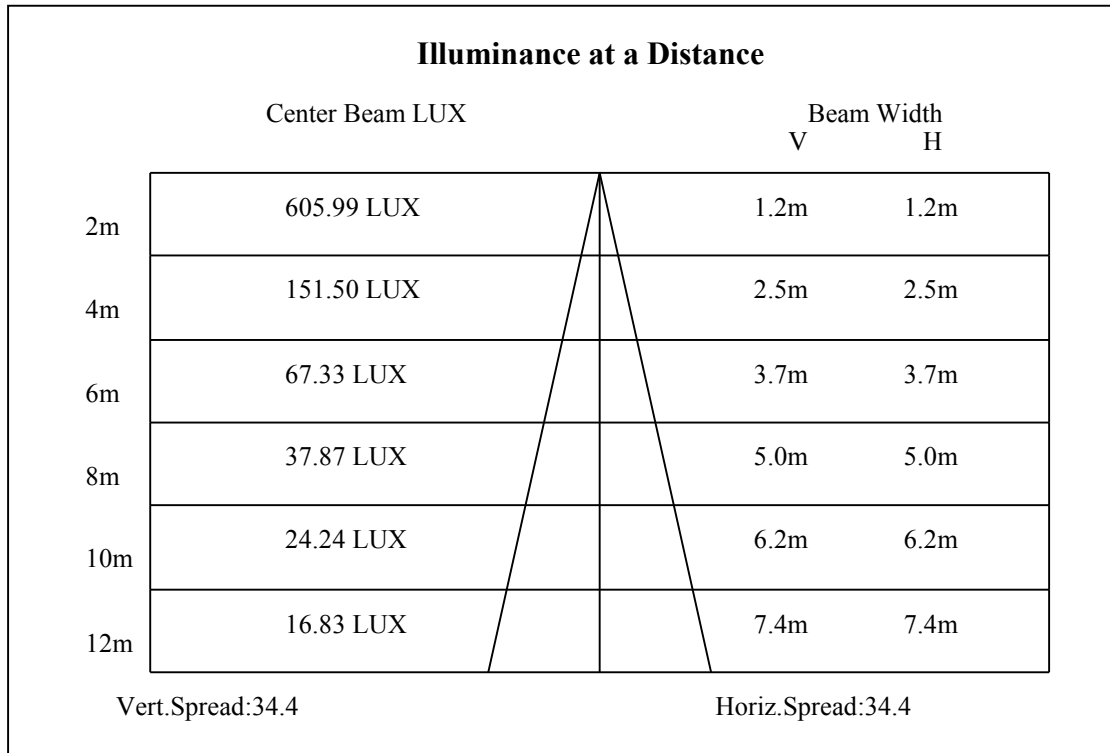
C90/C270: ———

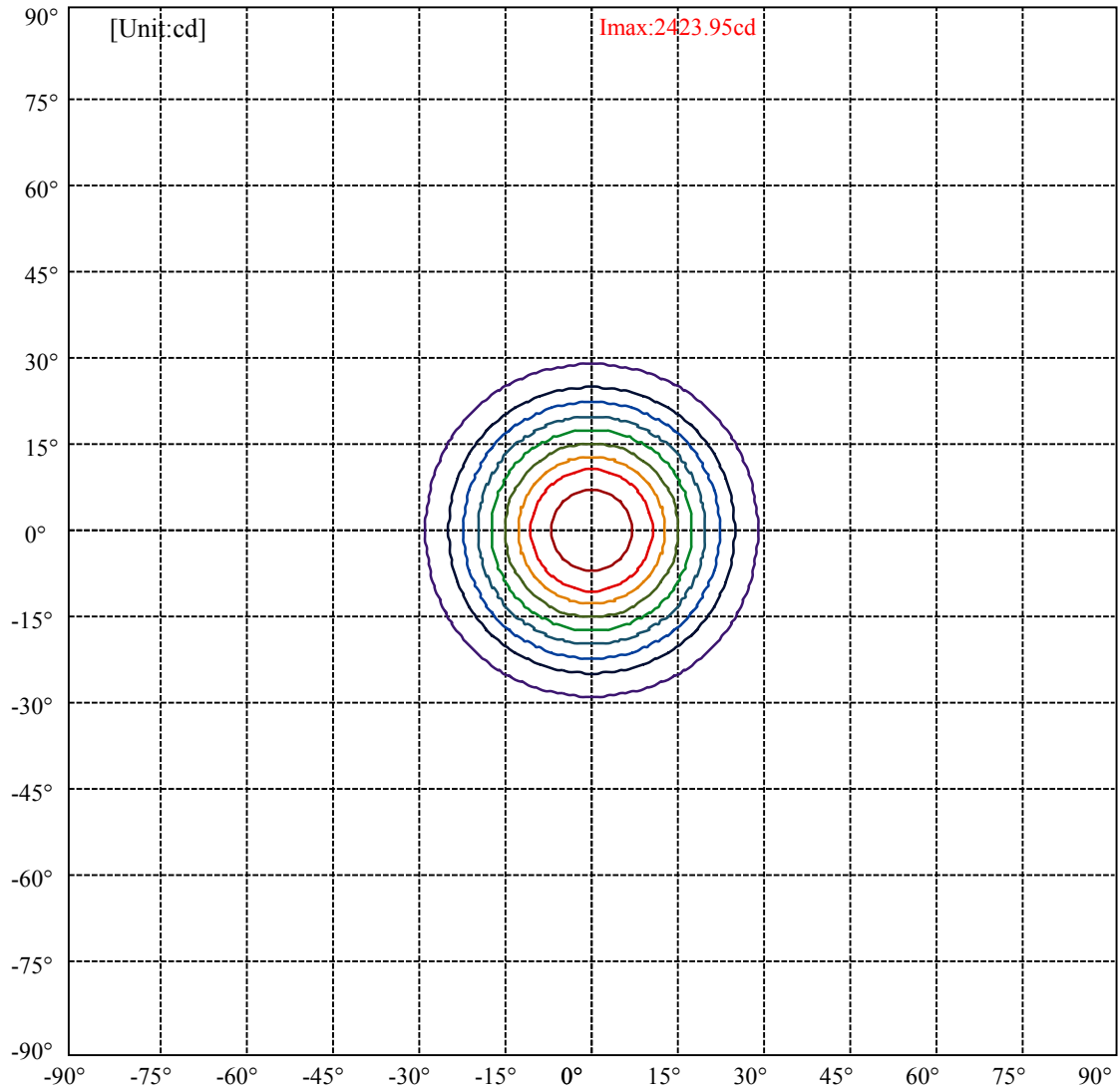
Field angle(10%Imax):C0/180Left:28.5 Right:28.5

:C90/270Left:28.5 Right:28.5

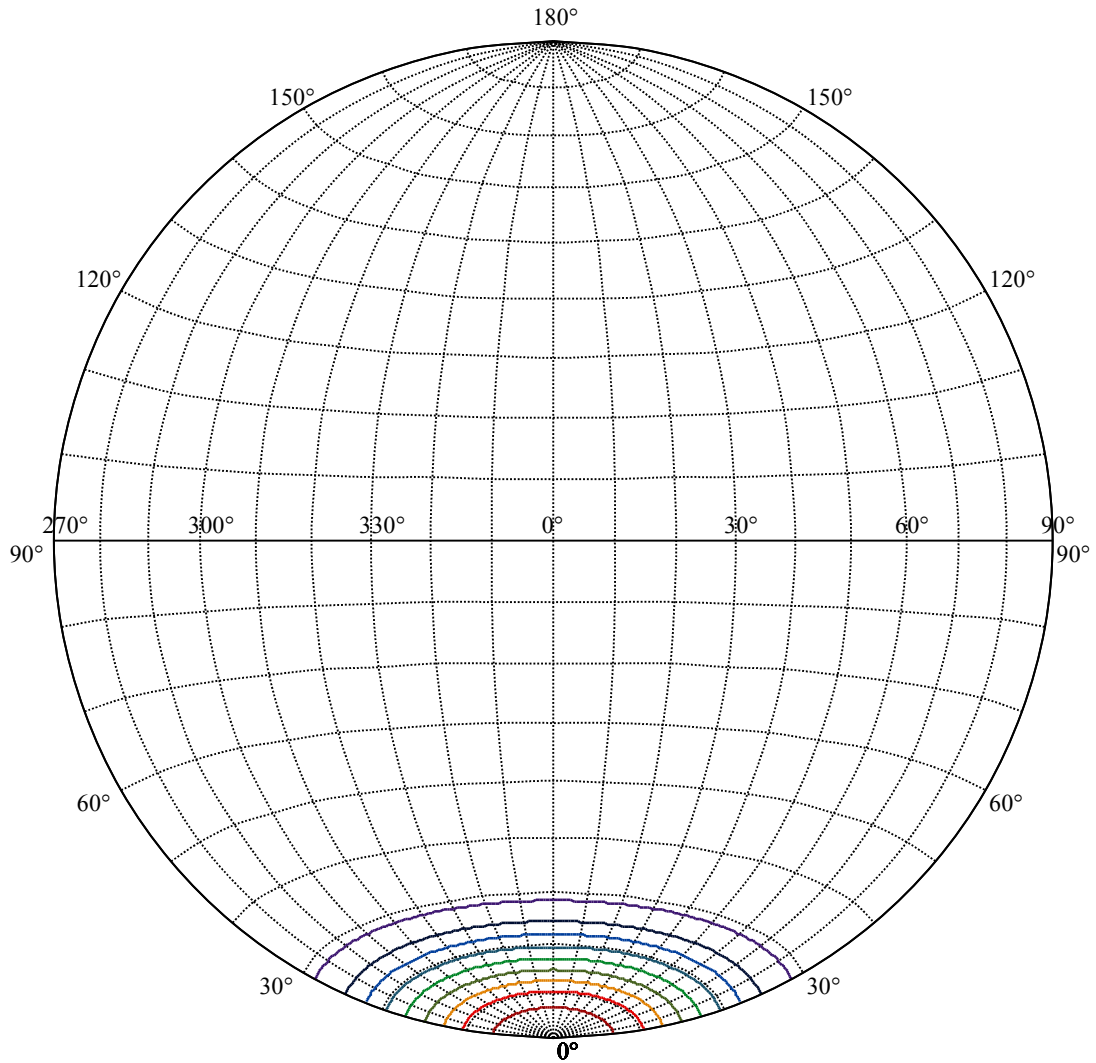
Beam Angle(50%Imax):C0/180Left:17.2 Right:17.2

:C90/270Left:17.2 Right:17.2





(10%Imax) 242.395	—
(20%Imax) 484.791	—
(30%Imax) 727.186	—
(40%Imax) 969.581	—
(50%Imax) 1211.98	—
(60%Imax) 1454.37	—
(70%Imax) 1696.77	—
(80%Imax) 1939.16	—
(90%Imax) 2181.56	—



House

[Unit:cd]

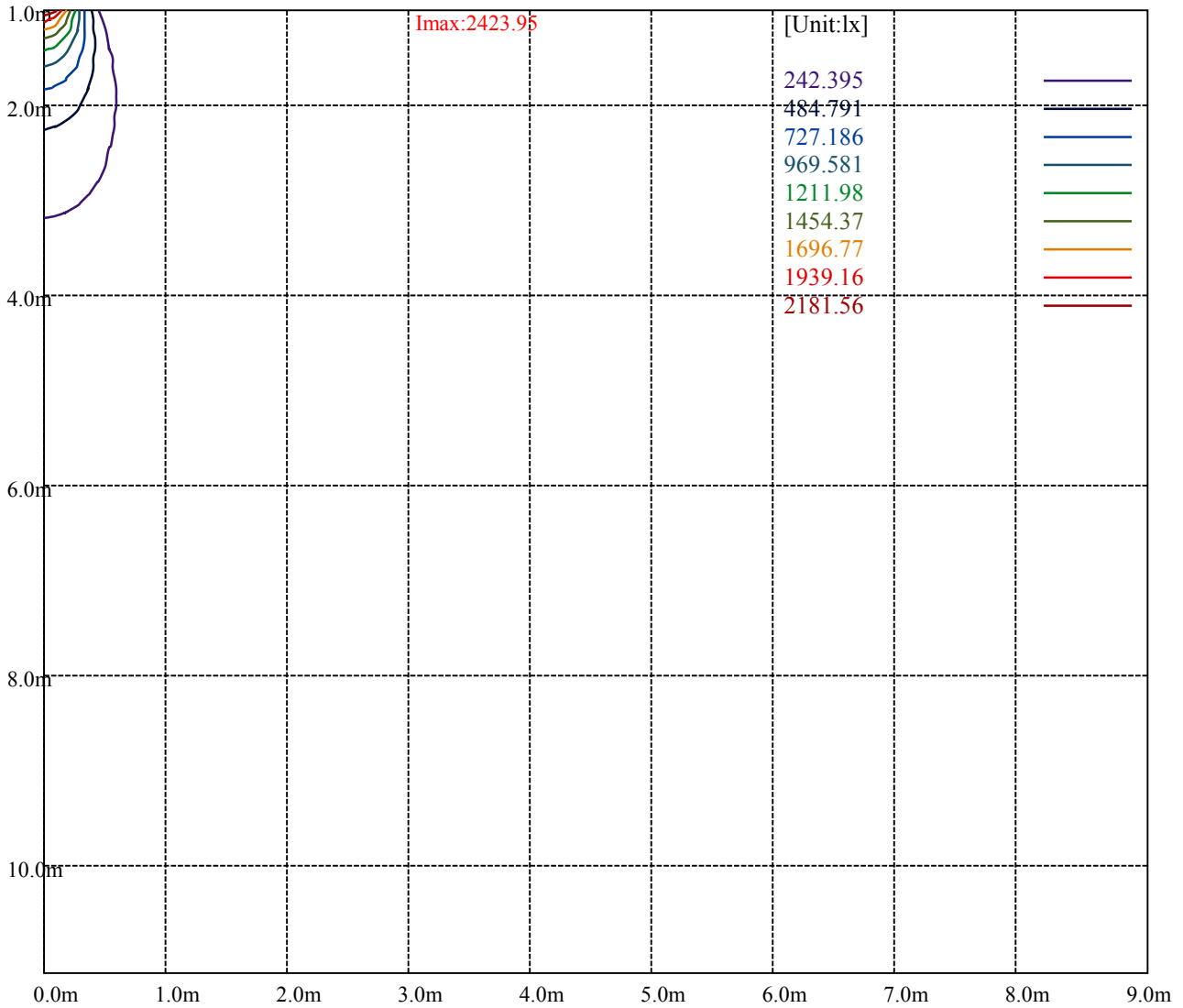
Road

**Imax:2423.95**

(10%Imax) 242.395	—
(20%Imax) 484.791	—
(30%Imax) 727.186	—
(40%Imax) 969.581	—
(50%Imax) 1211.98	—
(60%Imax) 1454.37	—
(70%Imax) 1696.77	—
(80%Imax) 1939.16	—
(90%Imax) 2181.56	—







Luminance Table

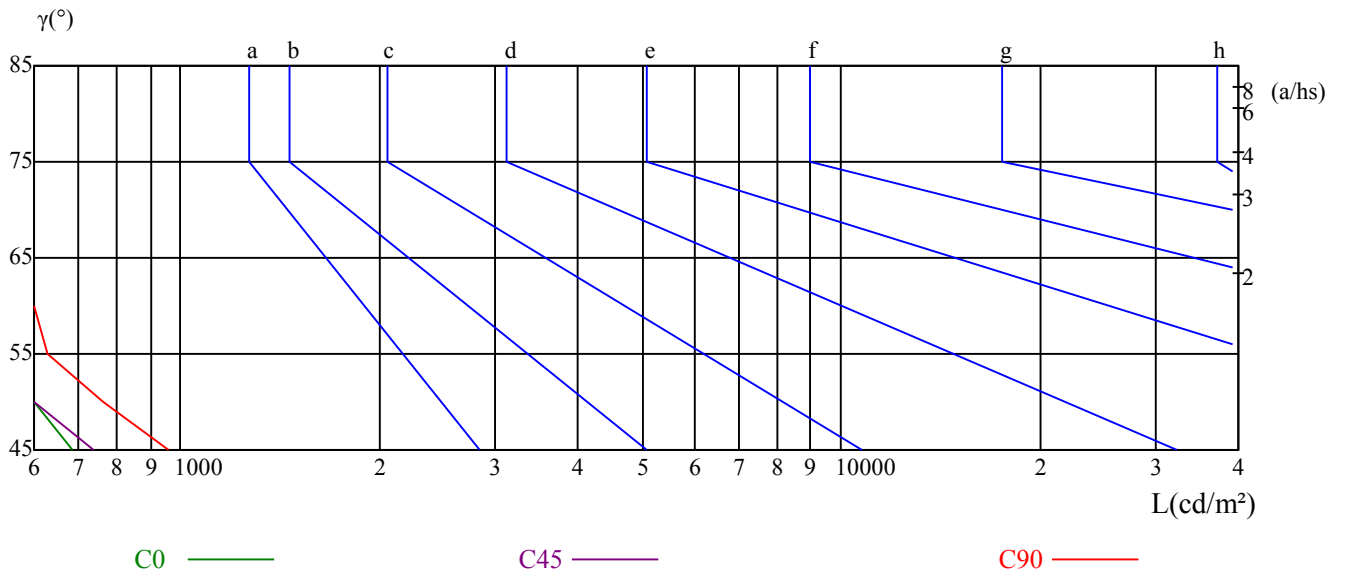
$\gamma$	45	50	55	60	65	70	75	80	85
C0	686	520	404	341	305	291	286	295	308
C45	740	566	445	381	344	334	336	355	384
C90	957	763	629	570	553	589	672	865	1336

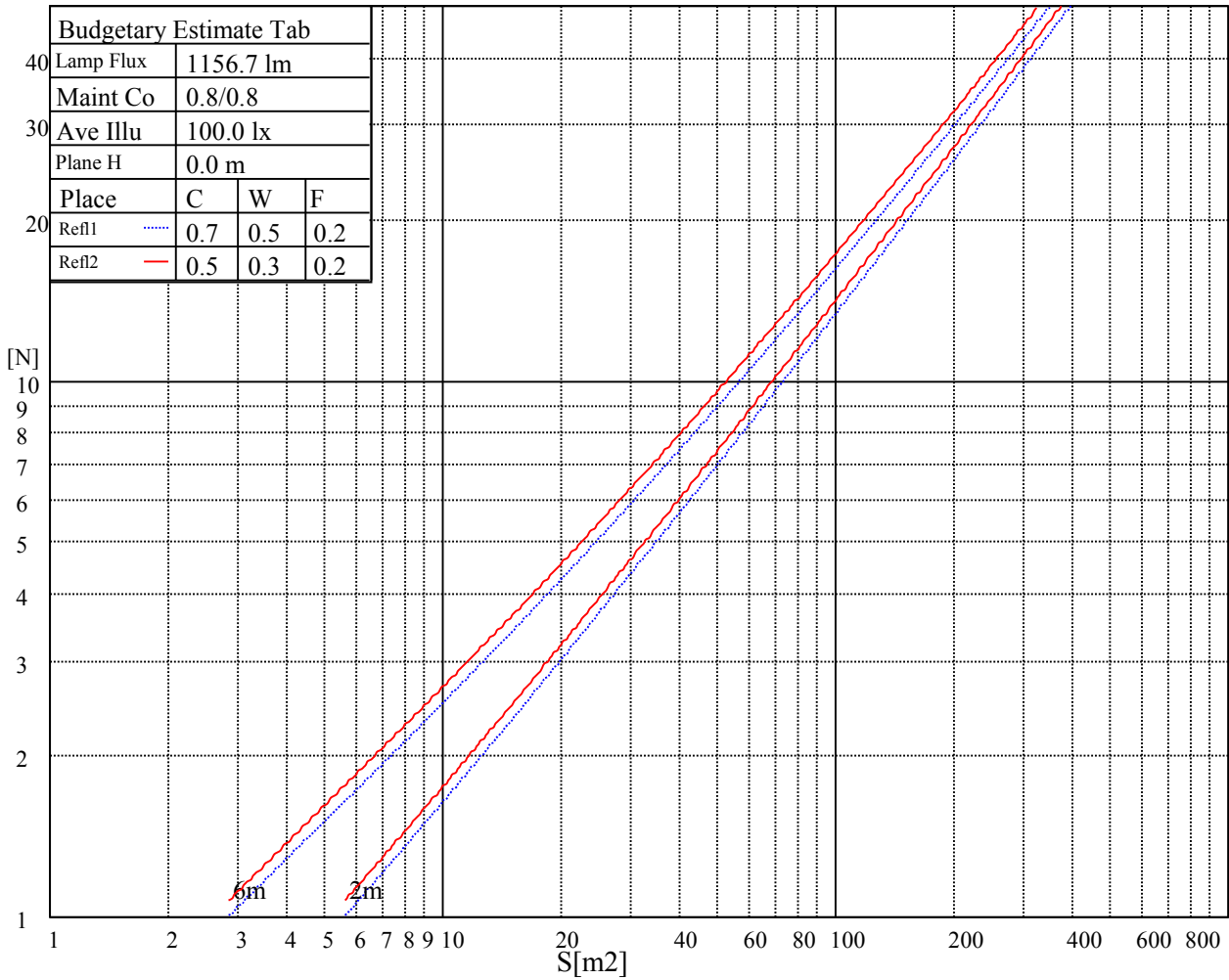
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
595	595	595	760	760	760	1871	1871	1871

Glare Table

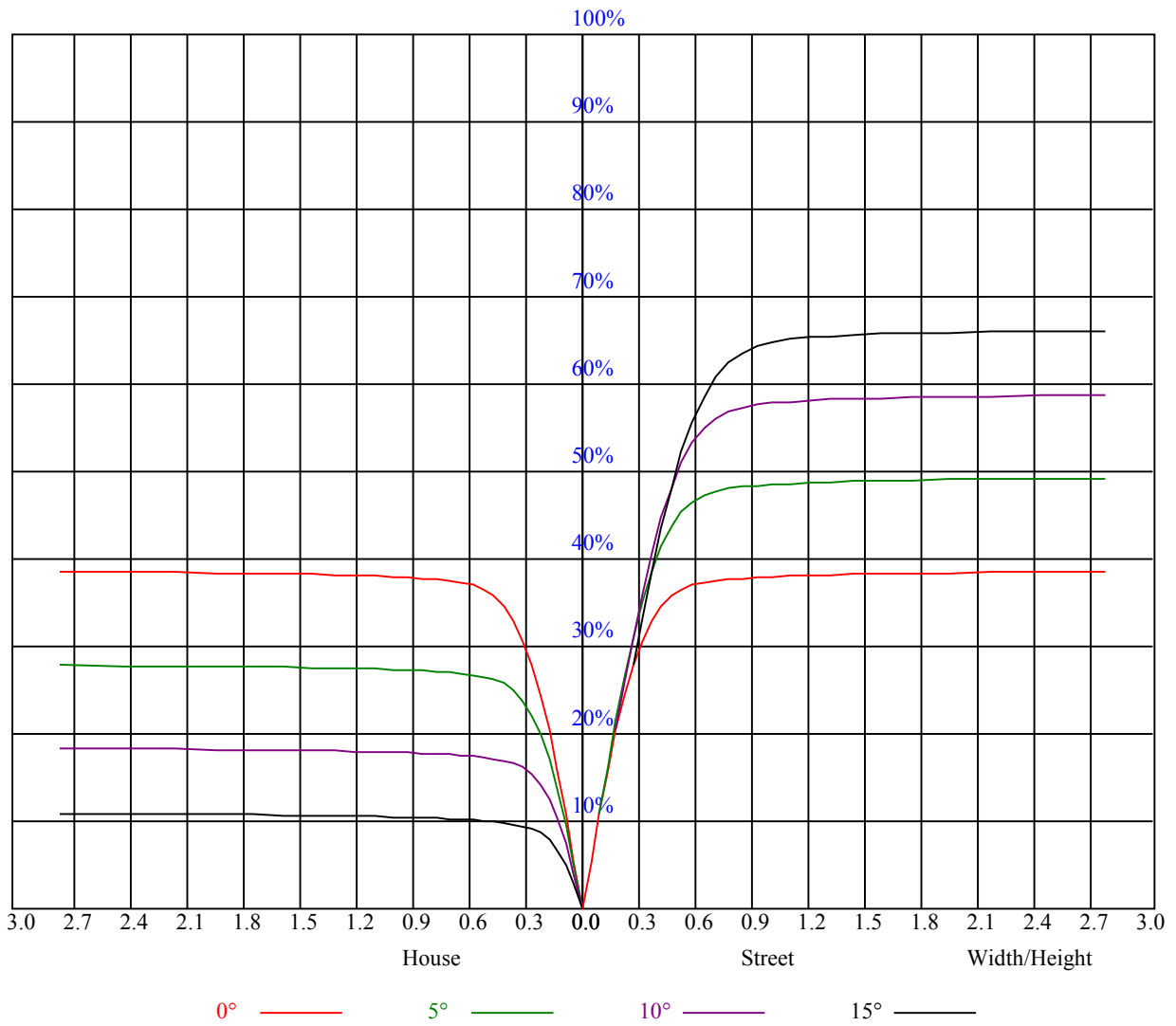
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.93	0.93	0.93	0.91	0.91	0.91	0.87	0.87	0.87	0.83	0.83	0.83	0.80	0.80	0.80	0.78
1	0.88	0.86	0.84	0.86	0.84	0.83	0.83	0.82	0.80	0.80	0.79	0.78	0.77	0.76	0.76	0.74
2	0.83	0.80	0.78	0.81	0.79	0.77	0.79	0.77	0.75	0.77	0.75	0.74	0.75	0.73	0.72	0.71
3	0.78	0.75	0.73	0.77	0.74	0.72	0.75	0.73	0.71	0.74	0.72	0.70	0.72	0.70	0.69	0.68
4	0.75	0.71	0.68	0.74	0.71	0.68	0.72	0.69	0.67	0.71	0.68	0.66	0.69	0.67	0.66	0.65
5	0.71	0.68	0.65	0.71	0.67	0.65	0.69	0.66	0.64	0.68	0.66	0.64	0.67	0.65	0.63	0.62
6	0.68	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.61	0.66	0.63	0.61	0.65	0.62	0.60	0.60
7	0.66	0.62	0.59	0.65	0.62	0.59	0.64	0.61	0.59	0.63	0.61	0.58	0.63	0.60	0.58	0.57
8	0.63	0.59	0.57	0.63	0.59	0.57	0.62	0.59	0.56	0.61	0.58	0.56	0.60	0.58	0.56	0.55
9	0.61	0.57	0.55	0.60	0.57	0.54	0.60	0.56	0.54	0.59	0.56	0.54	0.58	0.56	0.54	0.53
10	0.59	0.55	0.52	0.58	0.55	0.52	0.58	0.54	0.52	0.57	0.54	0.52	0.57	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	2419.88	2374.31	2124.00	1672.31	1072.69	549.56	289.13	41.74	27.68
45.0	2426.63	2332.69	2013.19	1535.06	942.75	469.13	138.38	36.62	25.82
90.0	2419.31	2267.44	1896.19	1257.19	822.26	365.06	86.68	34.48	24.02
135.0	2431.13	2302.31	1962.00	1459.69	901.69	423.00	126.39	36.56	24.98
180.0	2419.88	2224.13	1869.75	1120.50	767.48	342.11	82.41	31.73	22.78
225.0	2426.63	2288.25	1953.00	1438.31	880.82	408.94	124.20	36.11	24.86
270.0	2417.06	2345.06	2061.56	1566.56	1026.56	520.31	285.75	42.02	28.01
315.0	2431.13	2323.69	2014.31	1497.38	963.56	467.83	139.28	37.01	26.66
360.0	2419.88	2374.31	2124.00	1672.31	1072.69	549.56	289.13	41.74	27.68
C/ $\gamma$ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	19.52	14.06	10.29	8.21	6.75	5.85	5.18	4.61	4.22
45.0	18.06	13.16	9.96	7.82	6.47	5.68	5.01	4.50	4.16
90.0	16.88	12.54	9.34	7.48	6.30	5.57	5.01	4.95	4.05
135.0	17.44	12.83	9.51	7.59	6.36	5.57	5.01	4.56	4.11
180.0	16.09	11.76	8.94	7.31	6.19	5.51	4.89	4.44	4.11
225.0	17.66	12.77	9.51	7.59	6.36	5.57	5.01	4.56	4.28
270.0	19.58	14.51	10.35	8.16	6.69	5.91	5.23	4.78	4.33
315.0	18.51	13.28	9.90	7.82	6.47	5.68	5.06	4.56	4.22
360.0	19.52	14.06	10.29	8.21	6.75	5.85	5.18	4.61	4.22
C/ $\gamma$ (°)	90.0								
0.0	3.83								
45.0	3.77								
90.0	3.71								
135.0	3.77								
180.0	3.77								
225.0	3.83								
270.0	3.71								
315.0	3.77								
360.0	3.83								