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Nata

LumCAT: 1-1063-N	
Luminaire: 92.70.246.00	
Report No: 210706-B008	Voltage(V): 36.5300
Test No: 210706-C008	Current(A): 0.4510
LampCAT: Fortimo LED SLM 1203 G7N	Power (W): 16.4750
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

Photometric Results

Lumens(lm): 1677.70
Efficiency(%): 78.27%
Lumens(lm)/Power(W): 101.83
Central intensity(cd): 3236.625
Maximum intensity(cd): 3236.625
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=43.7
 [C90/270]Total=43.7
Field angle(10%Imax): [C0/180]Total=63.8
 [C90/270]Total=63.8
Maximum s/h(1/2): C0_180=0.71 C90_270=0.71
Maximum s/h(1/4): C0_180=0.67 C90_270=0.67
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 78.27%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.810%

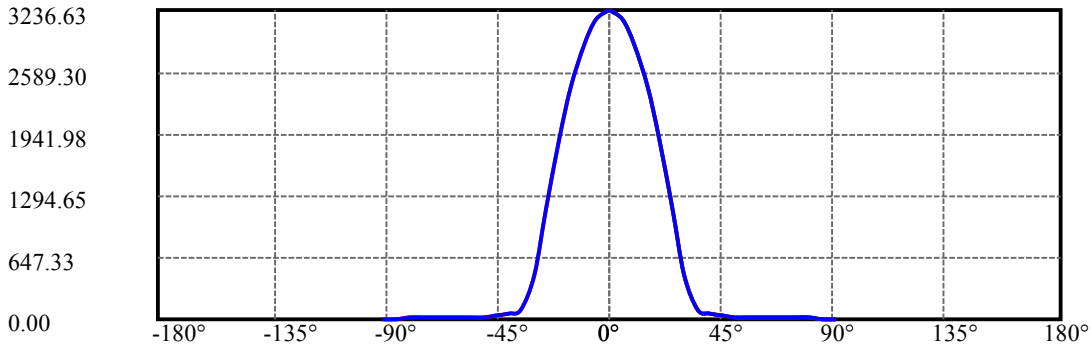
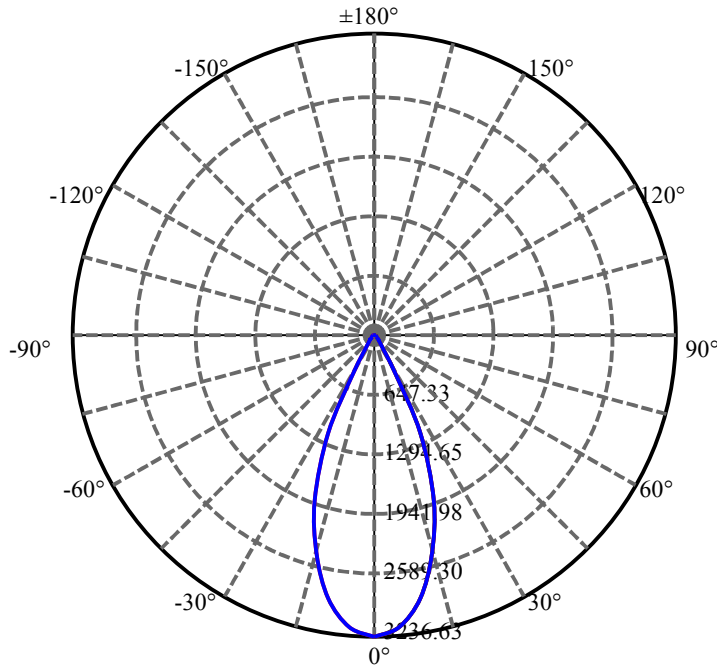
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3236.625	0.000	0	.000%	.000%
5.0	3145.430	76.296	76.296	3.559%	4.548%
10.0	2871.773	215.254	291.55	10.042%	17.378%
15.0	2425.148	314.210	605.76	14.659%	36.107%
20.0	1886.273	355.322	961.082	16.577%	57.286%
25.0	1152.246	318.685	1279.766	14.868%	76.281%
30.0	464.920	204.654	1484.42	9.548%	88.479%
35.0	93.220	82.190	1566.61	3.834%	93.378%
40.0	51.476	24.141	1590.751	1.126%	94.817%
45.0	36.851	16.354	1607.106	.763%	95.792%
50.0	28.793	13.264	1620.37	.619%	96.583%
55.0	22.570	11.168	1631.538	.521%	97.248%
60.0	18.162	9.415	1640.953	.439%	97.810%
65.0	14.857	8.027	1648.98	.374%	98.288%
70.0	12.987	7.050	1656.03	.329%	98.708%
75.0	11.749	6.466	1662.496	.302%	99.094%
80.0	10.209	5.876	1668.372	.274%	99.444%
85.0	8.325	5.036	1673.408	.235%	99.744%
90.0	7.355	4.293	1677.701	.200%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1484.42	69.25%	88.48%
0-40	1590.75	74.21%	94.82%
0-60	1640.95	76.56%	97.81%
0-90	1673.41	78.07%	99.74%
0-120	1673.41	78.07%	99.74%
0-180	1677.70	78.27%	100.00%
60-90	41.87	1.95%	2.50%
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%
0-26.52	1342.16	62.62%	80.00%

ZONAL LUMEN SUMMARY

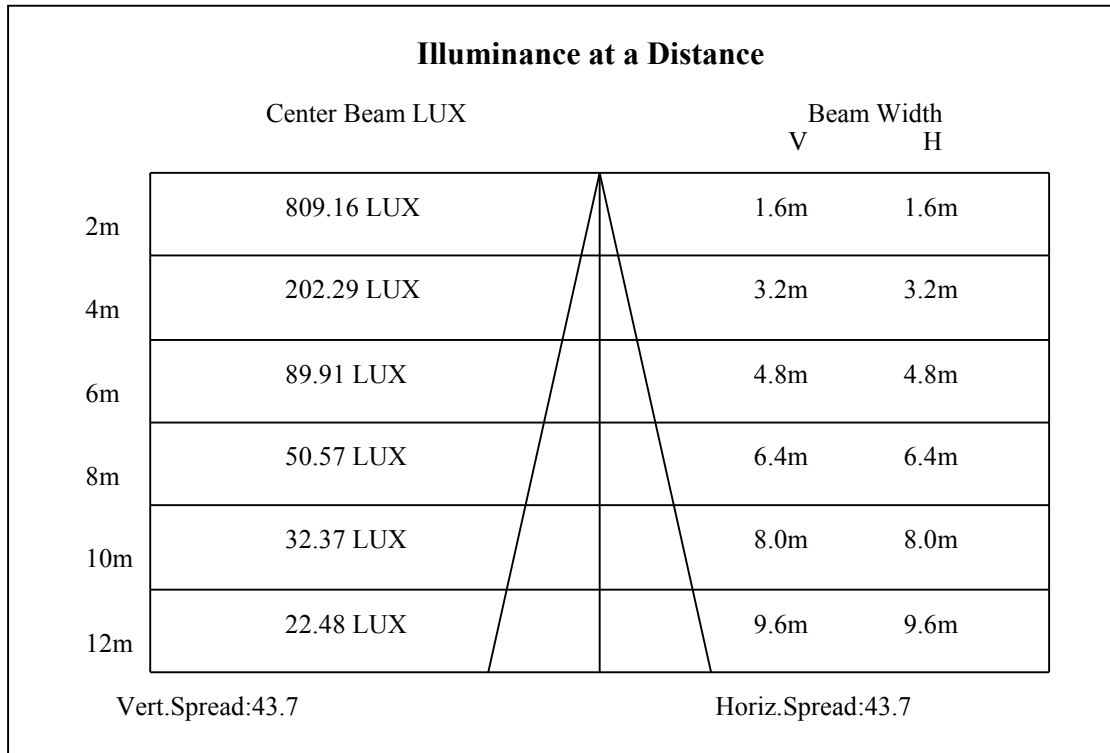
0-10	291.55
10-20	669.53
20-30	523.34
30-40	106.33
40-50	29.62
50-60	20.58
60-70	15.08
70-80	12.34
80-90	5.04
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

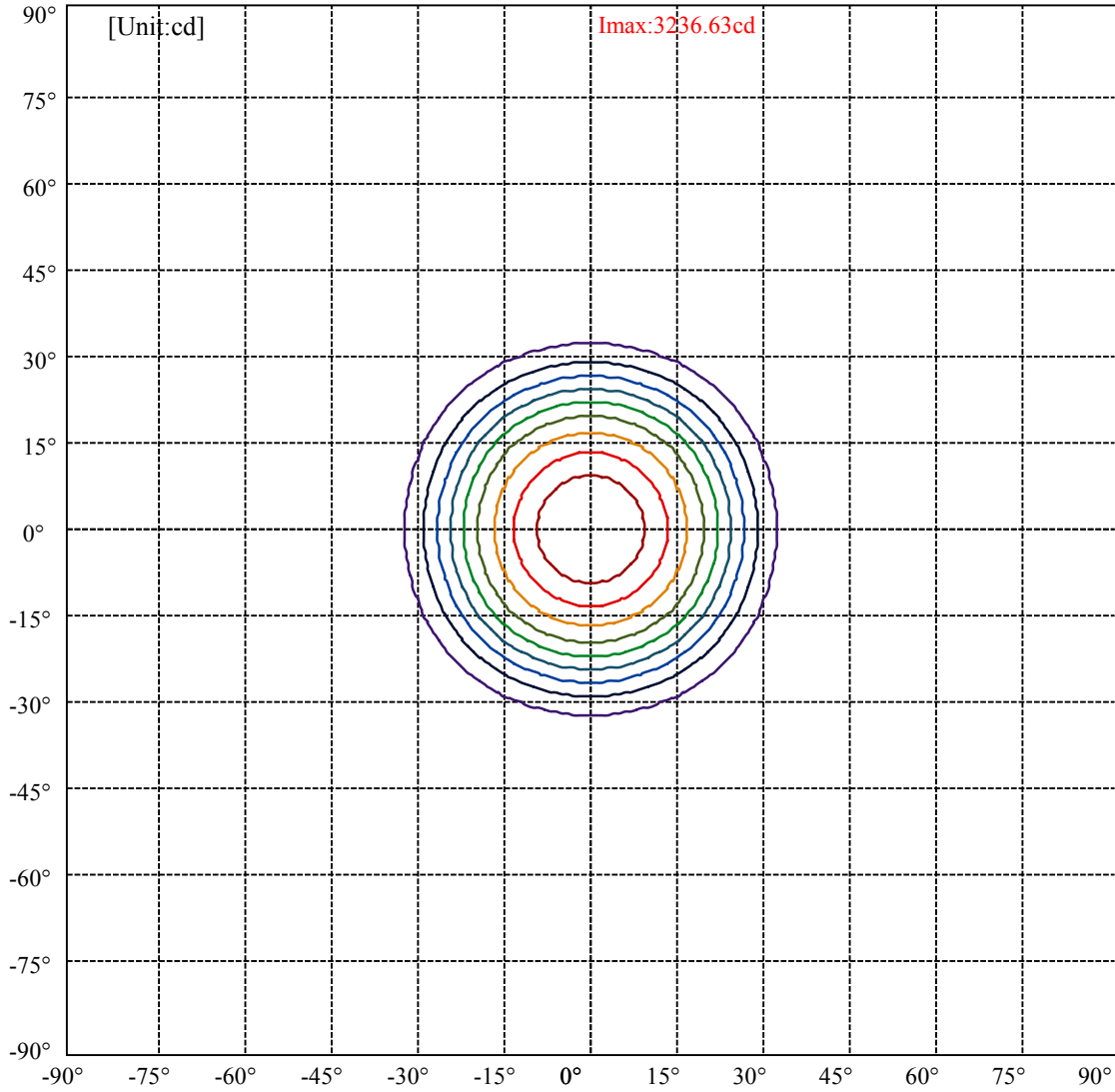


C0(Max): —————
C0/C180: —————
C90/C270: —————

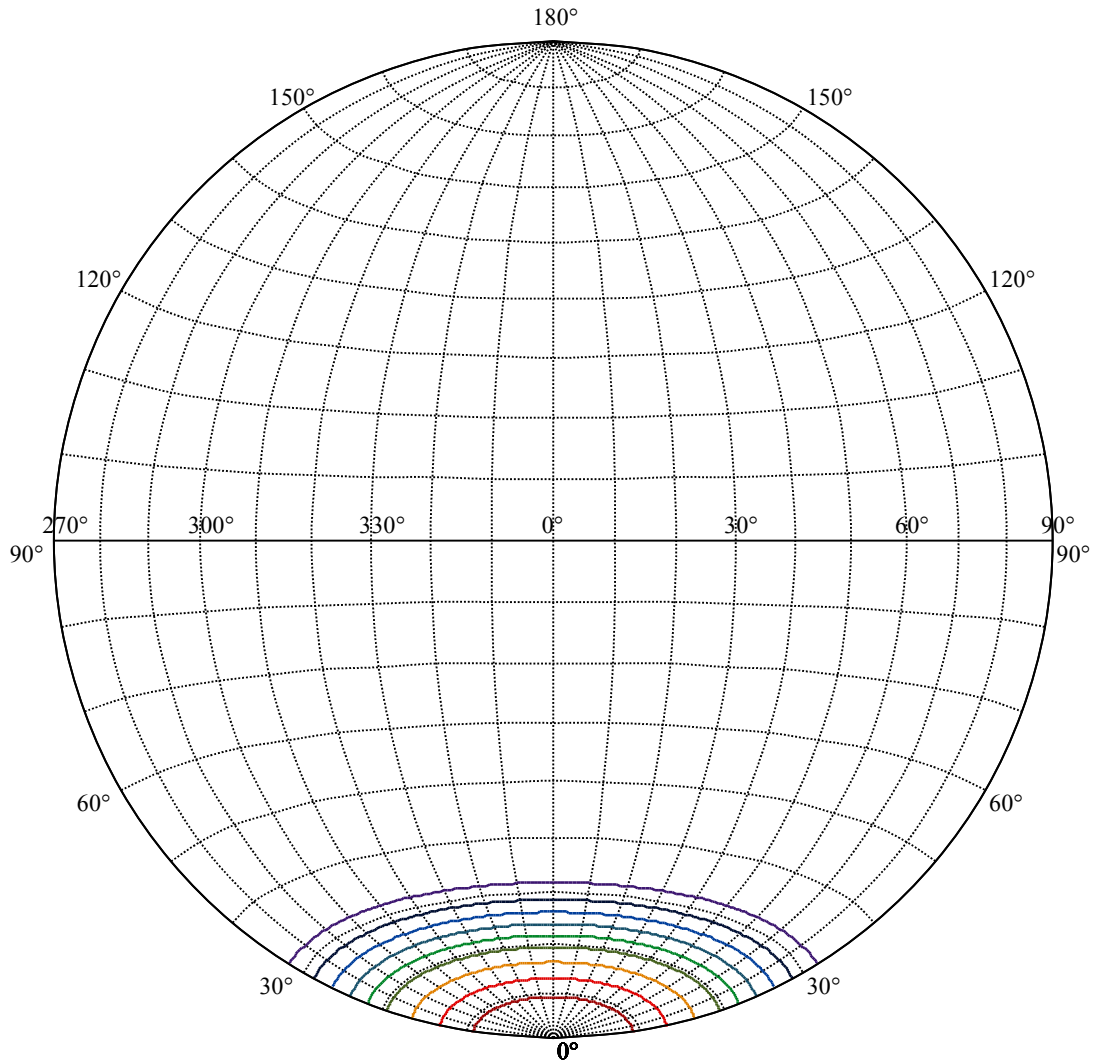
Field angle(10%Imax):C0/180Left:31.9 Right:31.9
:C90/270Left:31.9 Right:31.9

Beam Angle(50%Imax):C0/180Left:21.8 Right:21.8
:C90/270Left:21.8 Right:21.8





(10%Imax) 323.663	—
(20%Imax) 647.325	—
(30%Imax) 970.987	—
(40%Imax) 1294.65	—
(50%Imax) 1618.31	—
(60%Imax) 1941.97	—
(70%Imax) 2265.64	—
(80%Imax) 2589.3	—
(90%Imax) 2912.96	—



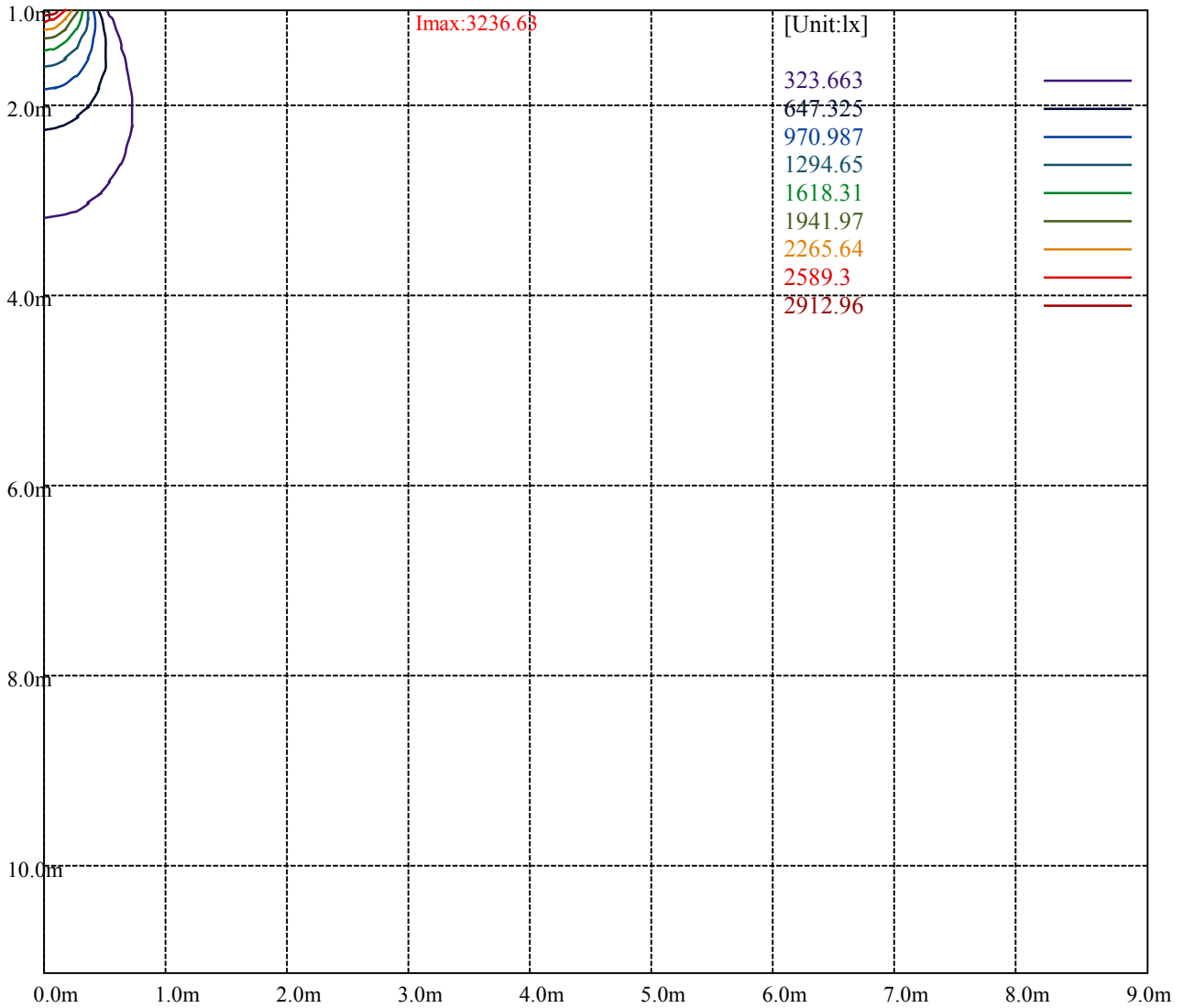
House

[Unit:cd]

Road

Imax:3236.63

(10%Imax) 323.663	—
(20%Imax) 647.325	—
(30%Imax) 970.987	—
(40%Imax) 1294.65	—
(50%Imax) 1618.31	—
(60%Imax) 1941.97	—
(70%Imax) 2265.64	—
(80%Imax) 2589.3	—
(90%Imax) 2912.96	—



Luminance Table

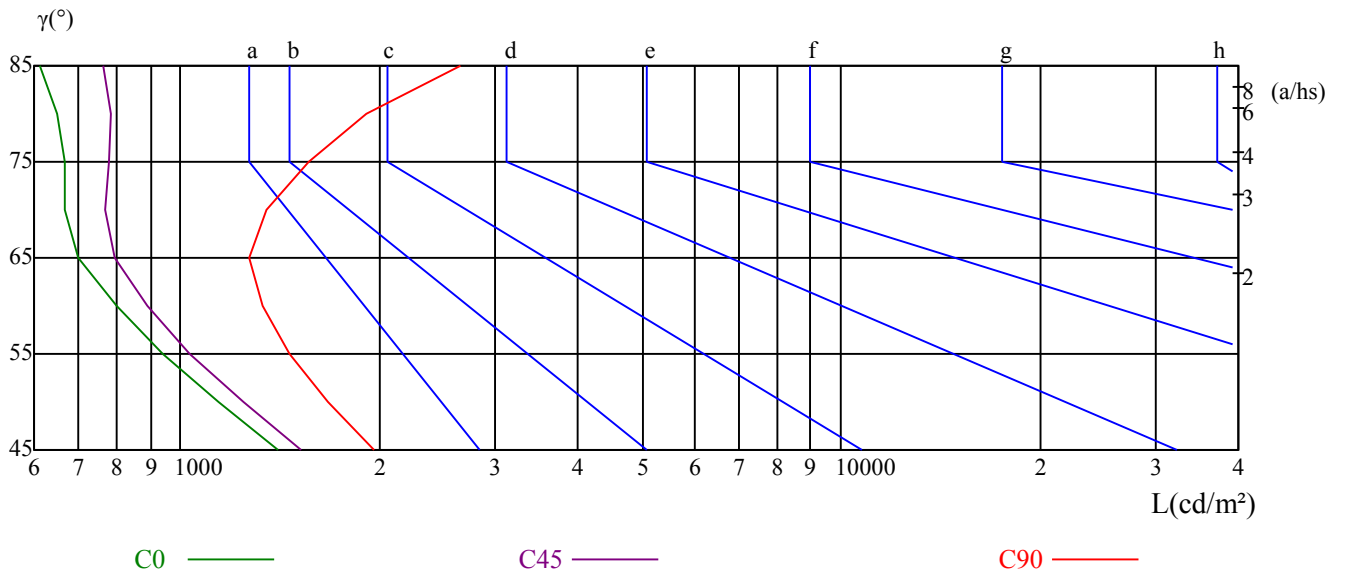
γ	45	50	55	60	65	70	75	80	85
C0	1407	1142	938	800	702	666	666	651	612
C45	1517	1244	1034	892	794	766	781	784	764
C90	1963	1676	1461	1335	1275	1350	1565	1912	2658

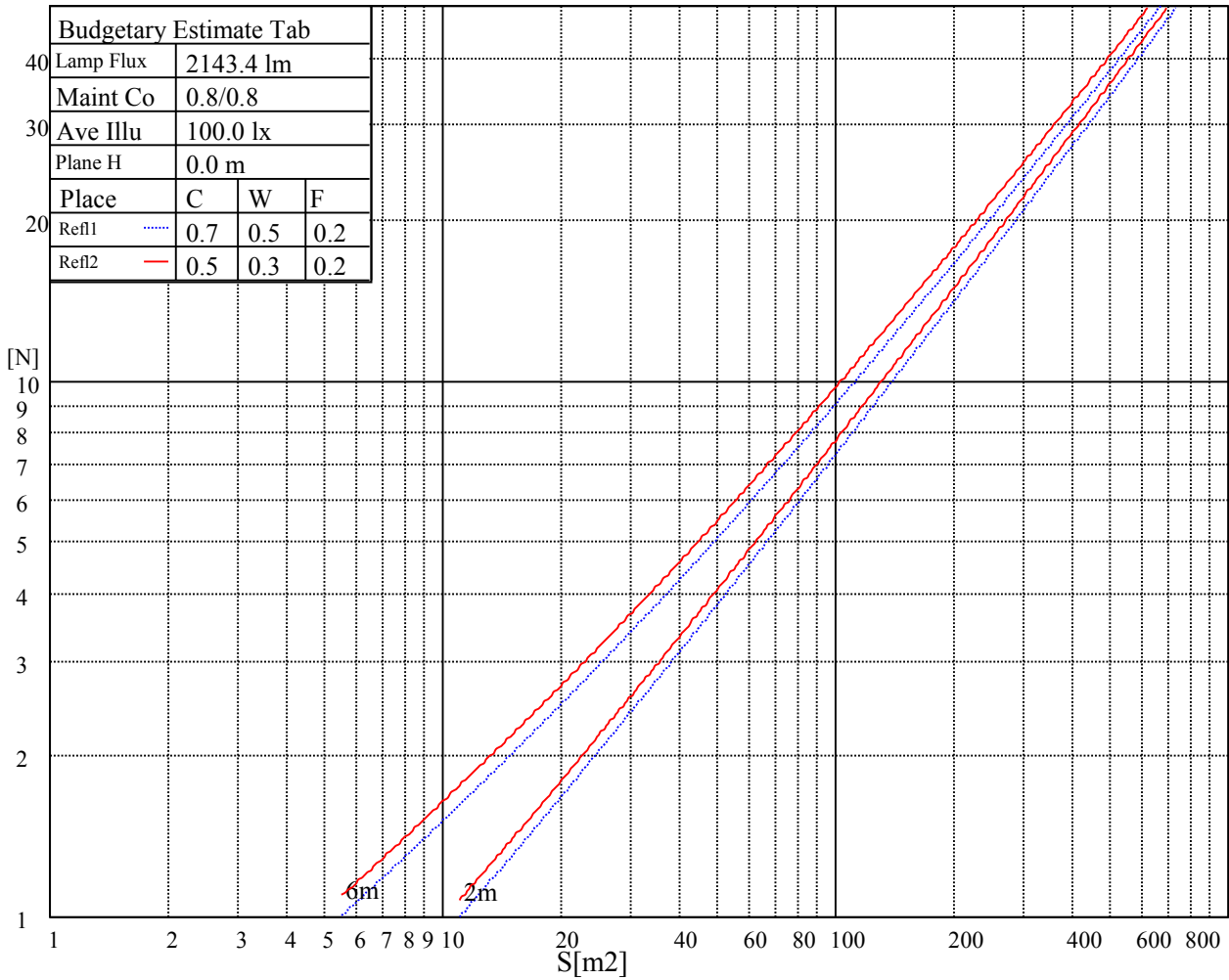
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1371	1371	1371	1770	1770	1770	3724	3724	3724

Glare Table

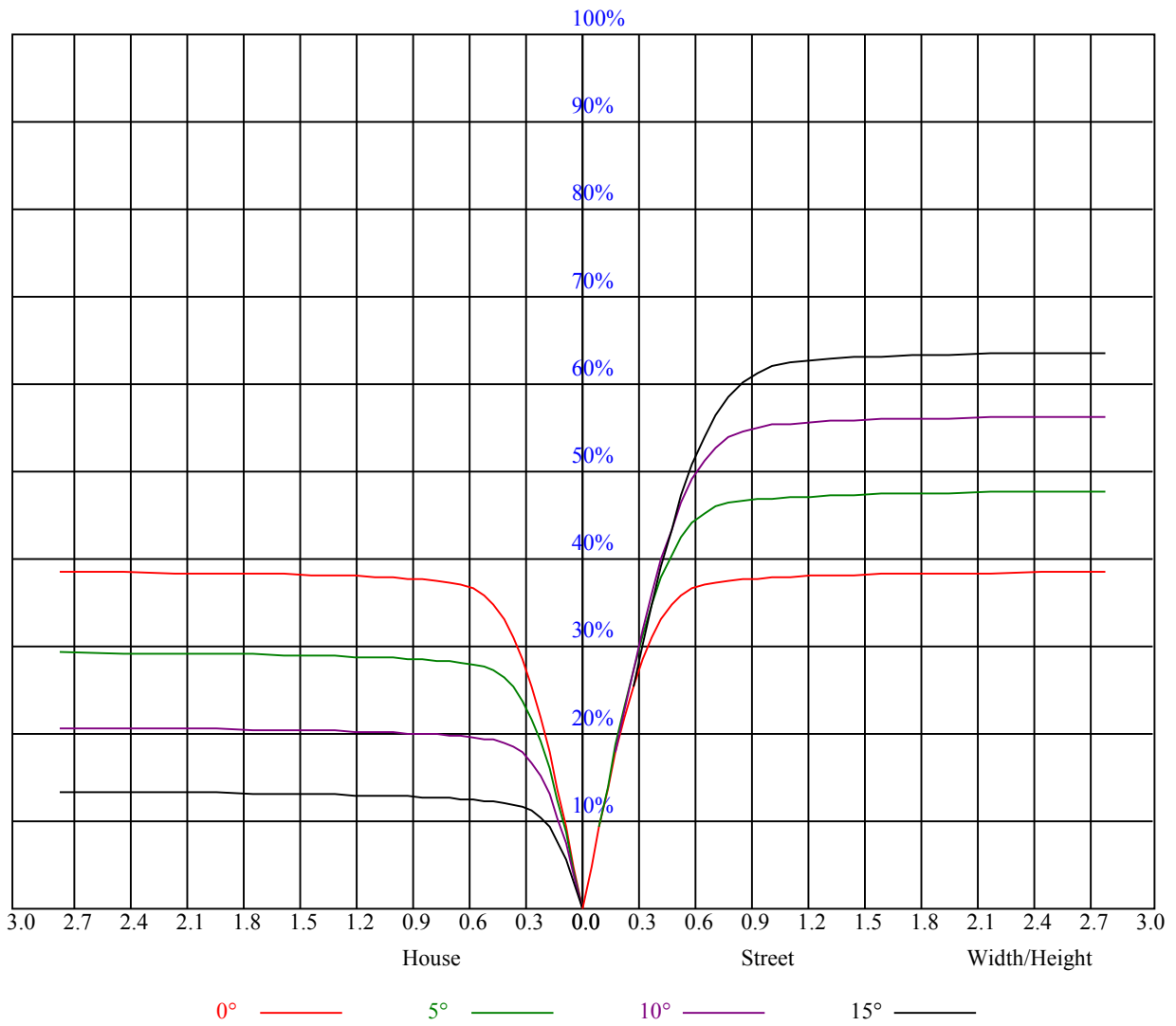
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.87	0.85	0.84	0.85	0.84	0.82	0.82	0.81	0.80	0.79	0.78	0.77	0.77	0.76	0.75	0.74
2	0.82	0.79	0.76	0.80	0.78	0.76	0.78	0.76	0.74	0.76	0.74	0.72	0.74	0.72	0.71	0.70
3	0.77	0.74	0.71	0.76	0.73	0.70	0.74	0.71	0.69	0.72	0.70	0.68	0.71	0.69	0.67	0.66
4	0.73	0.69	0.66	0.72	0.69	0.66	0.71	0.68	0.65	0.69	0.66	0.64	0.68	0.65	0.64	0.63
5	0.69	0.65	0.62	0.69	0.65	0.62	0.67	0.64	0.62	0.66	0.63	0.61	0.65	0.62	0.61	0.60
6	0.66	0.62	0.59	0.65	0.62	0.59	0.64	0.61	0.58	0.63	0.60	0.58	0.62	0.60	0.58	0.57
7	0.63	0.59	0.56	0.63	0.59	0.56	0.62	0.58	0.56	0.61	0.58	0.55	0.60	0.57	0.55	0.54
8	0.60	0.56	0.53	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
9	0.58	0.54	0.51	0.57	0.53	0.51	0.57	0.53	0.51	0.56	0.53	0.51	0.55	0.52	0.50	0.49
10	0.55	0.51	0.49	0.55	0.51	0.49	0.54	0.51	0.49	0.54	0.51	0.48	0.53	0.50	0.48	0.47



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	3231.00	3173.06	2924.44	2540.81	1996.88	1262.81	569.81	104.06	53.10
45.0	3236.63	3153.38	2906.44	2463.75	1923.19	1188.00	511.31	93.32	50.63
90.0	3240.56	3143.81	2820.38	2399.06	1823.06	1083.66	429.41	86.29	49.44
135.0	3238.31	3179.25	2923.88	2480.63	1969.88	1238.63	526.50	104.57	53.04
180.0	3231.00	3116.81	2820.38	2355.19	1780.88	1065.15	389.59	85.67	50.57
225.0	3236.63	3133.69	2856.94	2395.69	1851.19	1087.37	434.36	88.59	51.30
270.0	3240.56	3146.63	2900.25	2448.56	1926.56	1233.00	510.19	99.62	54.17
315.0	3238.31	3116.81	2821.50	2317.50	1818.56	1059.36	348.19	83.64	49.56
360.0	3231.00	3173.06	2924.44	2540.81	1996.88	1262.81	569.81	104.06	53.10
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	37.69	29.53	23.12	18.45	15.19	13.11	11.87	10.46	8.44
45.0	37.13	28.97	22.67	18.39	15.08	13.16	11.87	10.29	8.44
90.0	36.28	28.41	22.22	17.83	14.74	12.88	11.53	9.96	8.21
135.0	37.58	29.70	23.23	18.62	15.08	13.16	11.81	10.18	8.16
180.0	35.78	27.73	21.83	17.49	14.29	12.66	11.36	9.84	7.99
225.0	36.45	28.35	21.99	18.11	14.79	12.94	11.87	10.52	8.55
270.0	38.14	29.48	23.46	18.73	15.13	13.16	12.04	10.52	8.49
315.0	35.78	28.18	22.05	17.66	14.57	12.83	11.64	9.90	8.33
360.0	37.69	29.53	23.12	18.45	15.19	13.11	11.87	10.46	8.44
C/ γ (°)	90.0								
0.0	7.31								
45.0	7.43								
90.0	7.37								
135.0	7.31								
180.0	7.31								
225.0	7.43								
270.0	7.37								
315.0	7.31								
360.0	7.31								