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Nata

LumCAT: LN01D02836DA-N

Luminaire: 92.70.307.00

Report No: 211115-B004

Test No: 211115-C004

LampCAT: Bridgelux V6HD LES7

Lamp flux(lm): 1006.7

Number of Lamps: 1

Length(mm): 111

Phm Type: C

Voltage(V): 34.5200

Current(A): 0.2100

Power (W): 7.2490

PF: 0.0000

Ballast type: DC

Width(mm): 111

Height(mm): 0

Photometric Results

Lumens(lm): 660.87

Efficiency(%): 65.65%

Lumens(lm)/Power(W): 91.17

Central intensity(cd): 1182.443

Maximum intensity(cd): 1182.443

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=38.4

[C90/270]Total=38.4

Field angle(10%Imax): [C0/180]Total=70.6

[C90/270]Total=70.6

Maximum s/h(1/2): C0_180=0.63 C90_270=0.63

Maximum s/h(1/4): C0_180=0.63 C90_270=0.63

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 65.65%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 95.150%

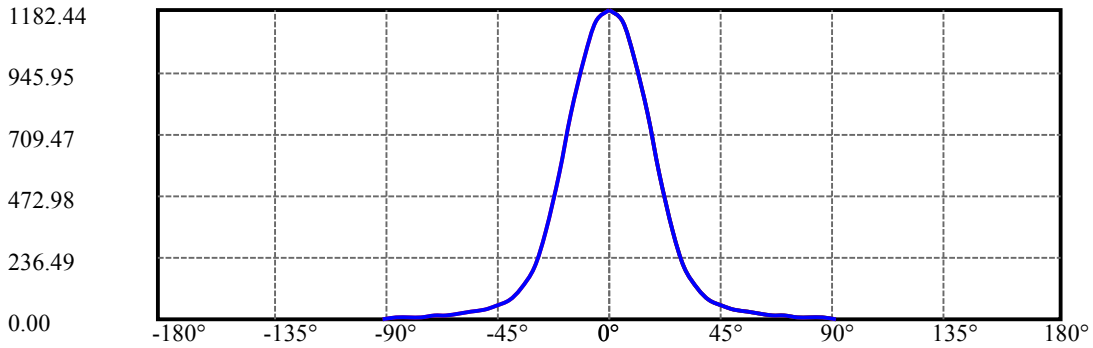
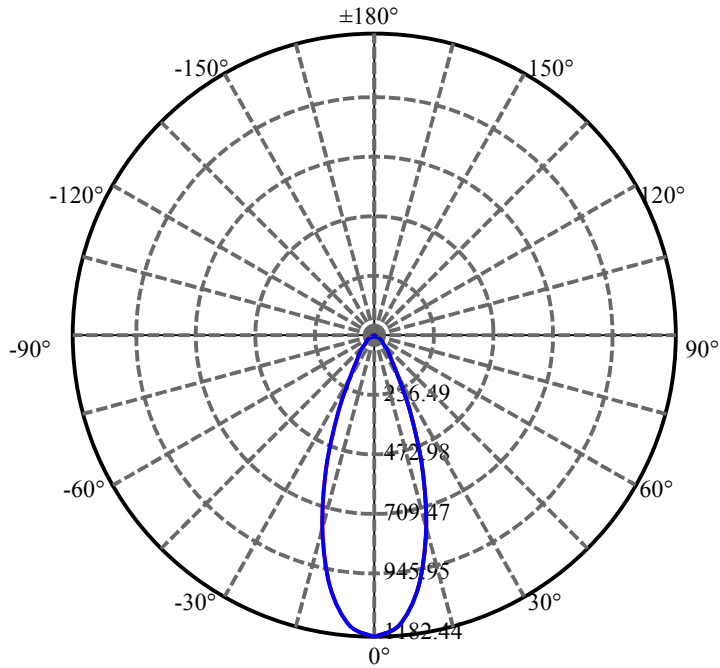
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1182.443	0.000	0	.000%	.000%
5.0	1139.144	27.754	27.754	2.757%	4.200%
10.0	1002.228	76.604	104.358	7.610%	15.791%
15.0	786.453	106.103	210.461	10.540%	31.846%
20.0	555.134	110.566	321.026	10.984%	48.576%
25.0	338.986	93.777	414.803	9.316%	62.766%
30.0	201.382	68.384	483.187	6.793%	73.113%
35.0	121.044	47.480	530.667	4.717%	80.298%
40.0	76.992	33.041	563.708	3.282%	85.297%
45.0	50.379	23.584	587.291	2.343%	88.866%
50.0	35.986	17.451	604.743	1.734%	91.506%
55.0	26.157	13.512	618.255	1.342%	93.551%
60.0	19.547	10.564	628.819	1.049%	95.150%
65.0	14.669	8.318	637.137	.826%	96.408%
70.0	11.592	6.650	643.786	.661%	97.414%
75.0	10.225	5.703	649.489	.567%	98.277%
80.0	9.478	5.272	654.761	.524%	99.075%
85.0	5.116	3.966	658.727	.394%	99.675%
90.0	2.726	2.147	660.874	.213%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	483.19	48.00%	73.11%
0-40	563.71	56.00%	85.30%
0-60	628.82	62.47%	95.15%
0-90	658.73	65.44%	99.68%
0-120	658.73	65.44%	99.68%
0-180	660.87	65.65%	100.00%
60-90	40.47	4.02%	6.12%
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%
0-34.79	528.70	52.52%	80.00%

ZONAL LUMEN SUMMARY

0-10	104.36
10-20	216.67
20-30	162.16
30-40	80.52
40-50	41.04
50-60	24.08
60-70	14.97
70-80	10.97
80-90	3.97
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: —————

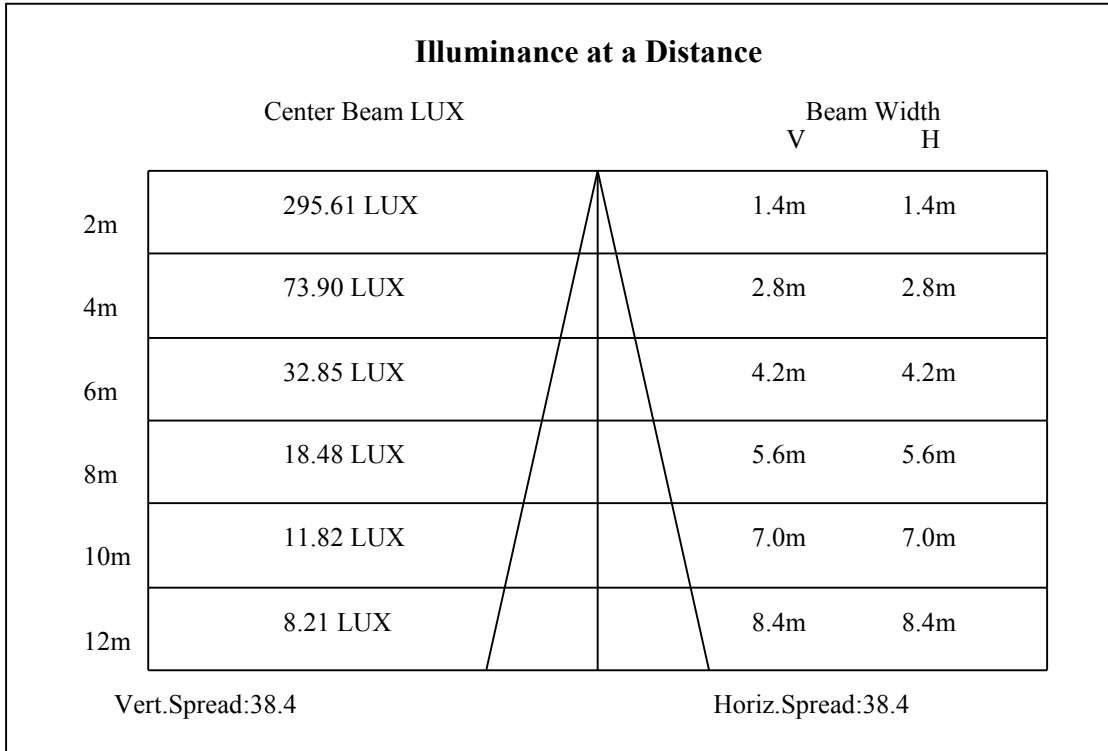
C90/C270: —————

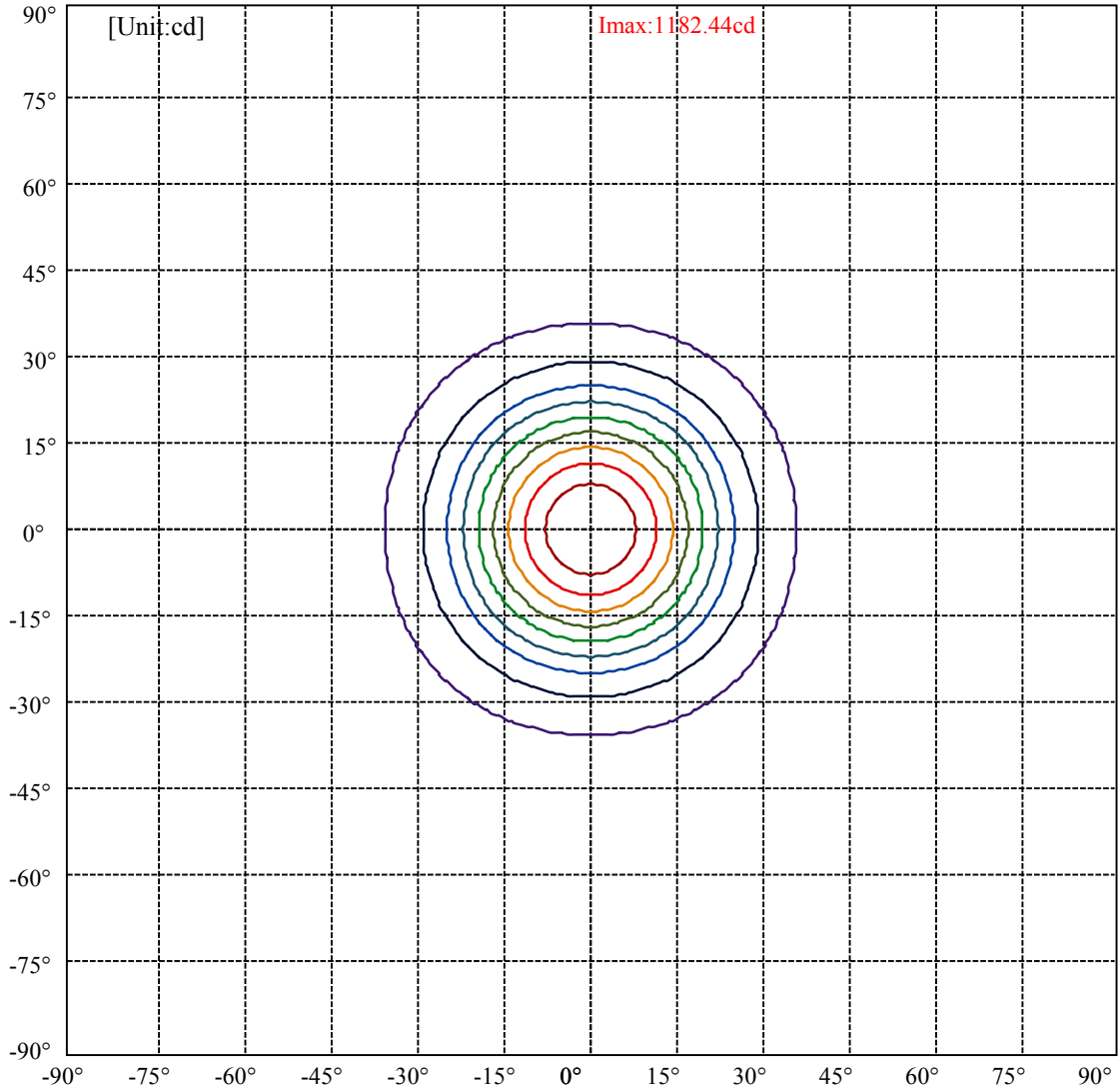
Field angle(10%Imax):C0/180Left:35.3 Right:35.3

:C90/270Left:35.3 Right:35.3

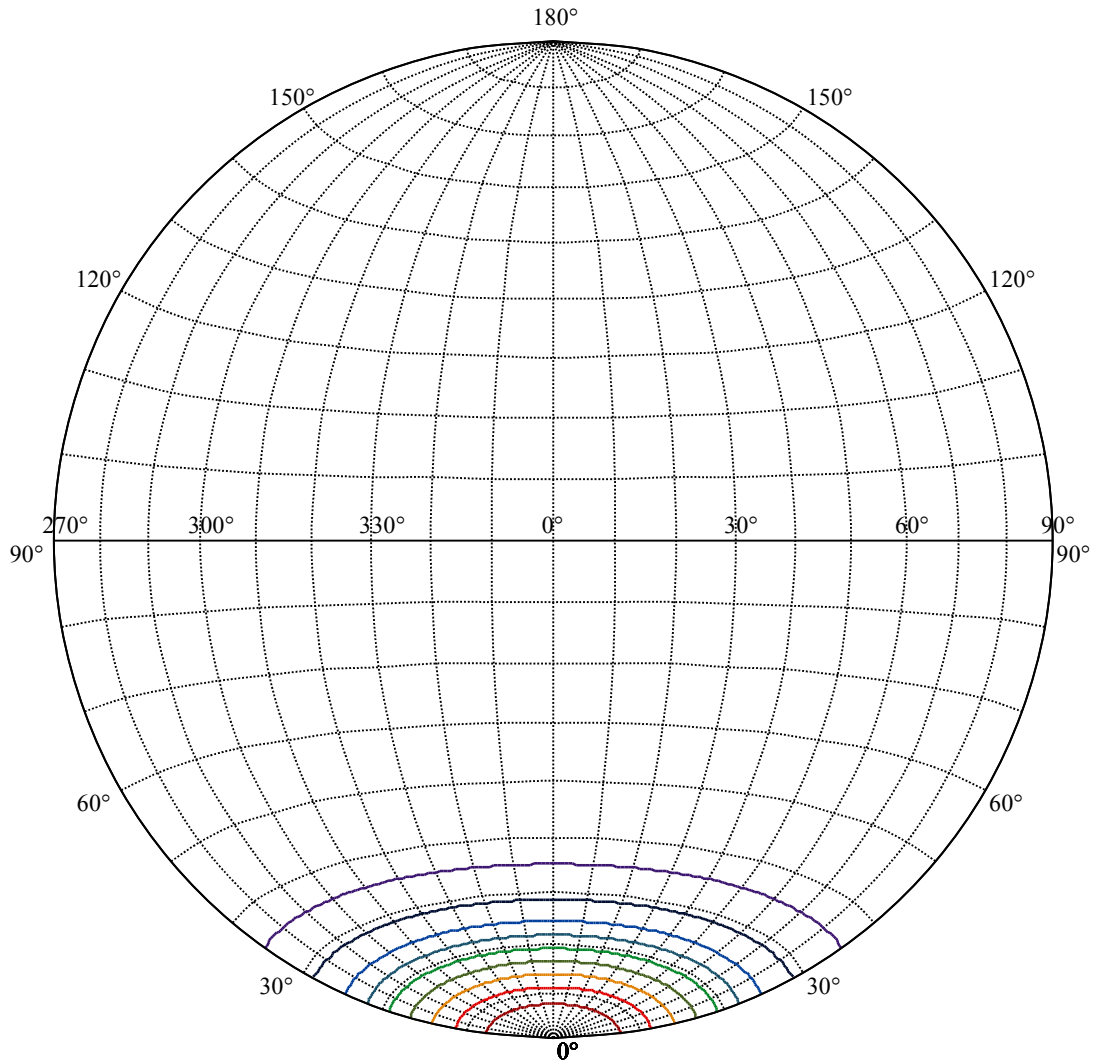
Beam Angle(50%Imax):C0/180Left:19.2 Right:19.2

:C90/270Left:19.2 Right:19.2





(10%I _{max}) 118.244	—
(20%I _{max}) 236.489	—
(30%I _{max}) 354.733	—
(40%I _{max}) 472.977	—
(50%I _{max}) 591.221	—
(60%I _{max}) 709.466	—
(70%I _{max}) 827.71	—
(80%I _{max}) 945.954	—
(90%I _{max}) 1064.2	—



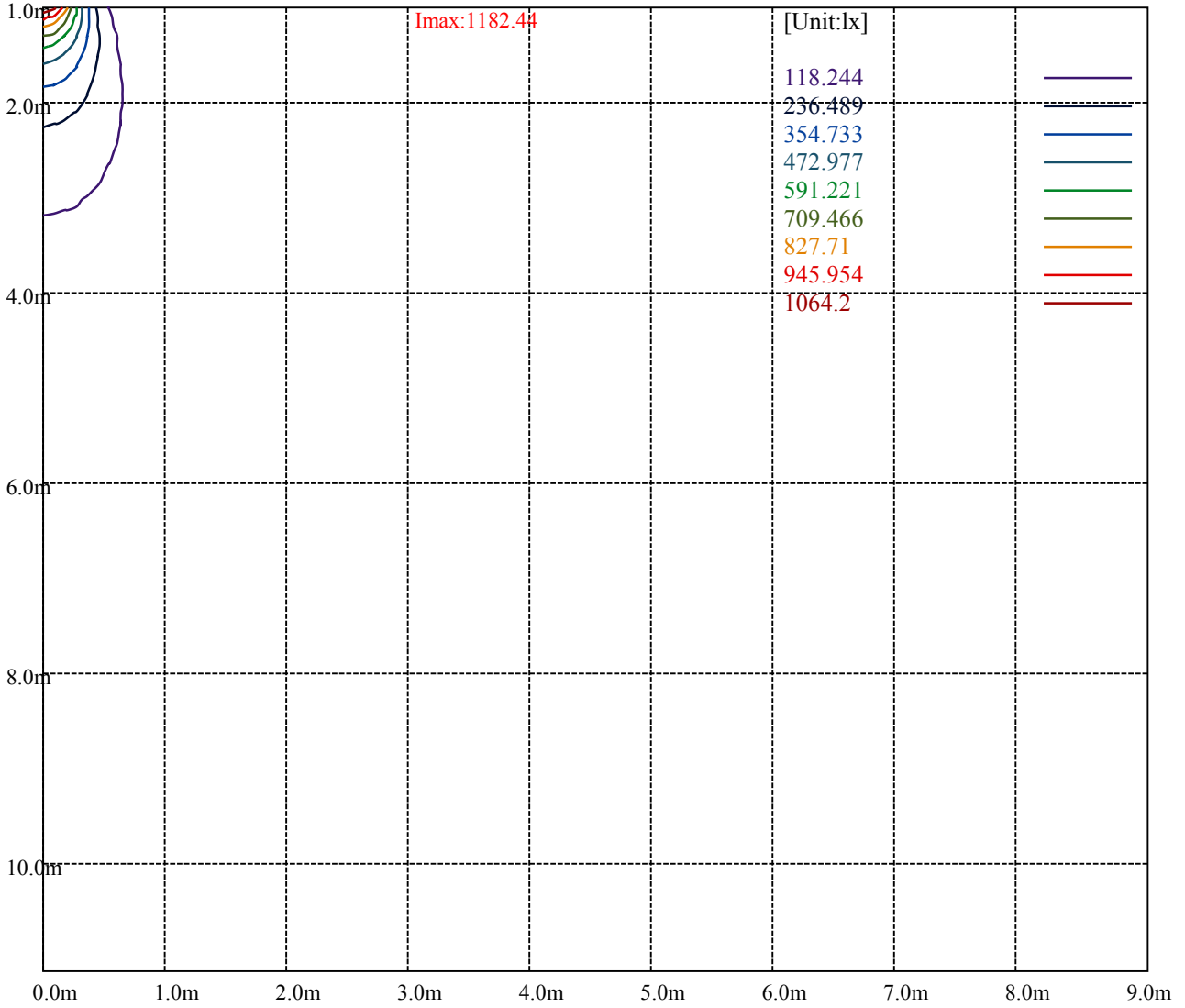
House

[Unit:cd]

Road

Imax:1182.44

(10%Imax)	118.244	—
(20%Imax)	236.489	—
(30%Imax)	354.733	—
(40%Imax)	472.977	—
(50%Imax)	591.221	—
(60%Imax)	709.466	—
(70%Imax)	827.71	—
(80%Imax)	945.954	—
(90%Imax)	1064.2	—



Luminance Table

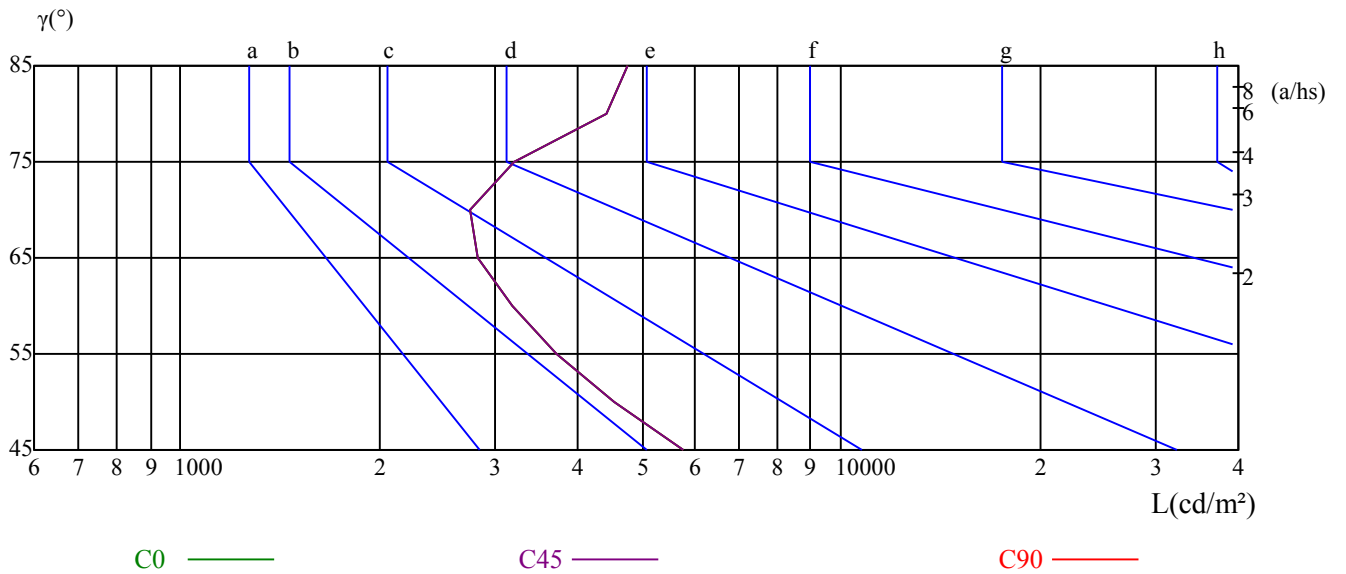
γ	45	50	55	60	65	70	75	80	85
C0	5783	4544	3701	3173	2817	2751	3206	4430	4765
C45	5783	4544	3701	3173	2817	2751	3206	4430	4765
C90	5783	4544	3701	3173	2817	2751	3206	4430	4765

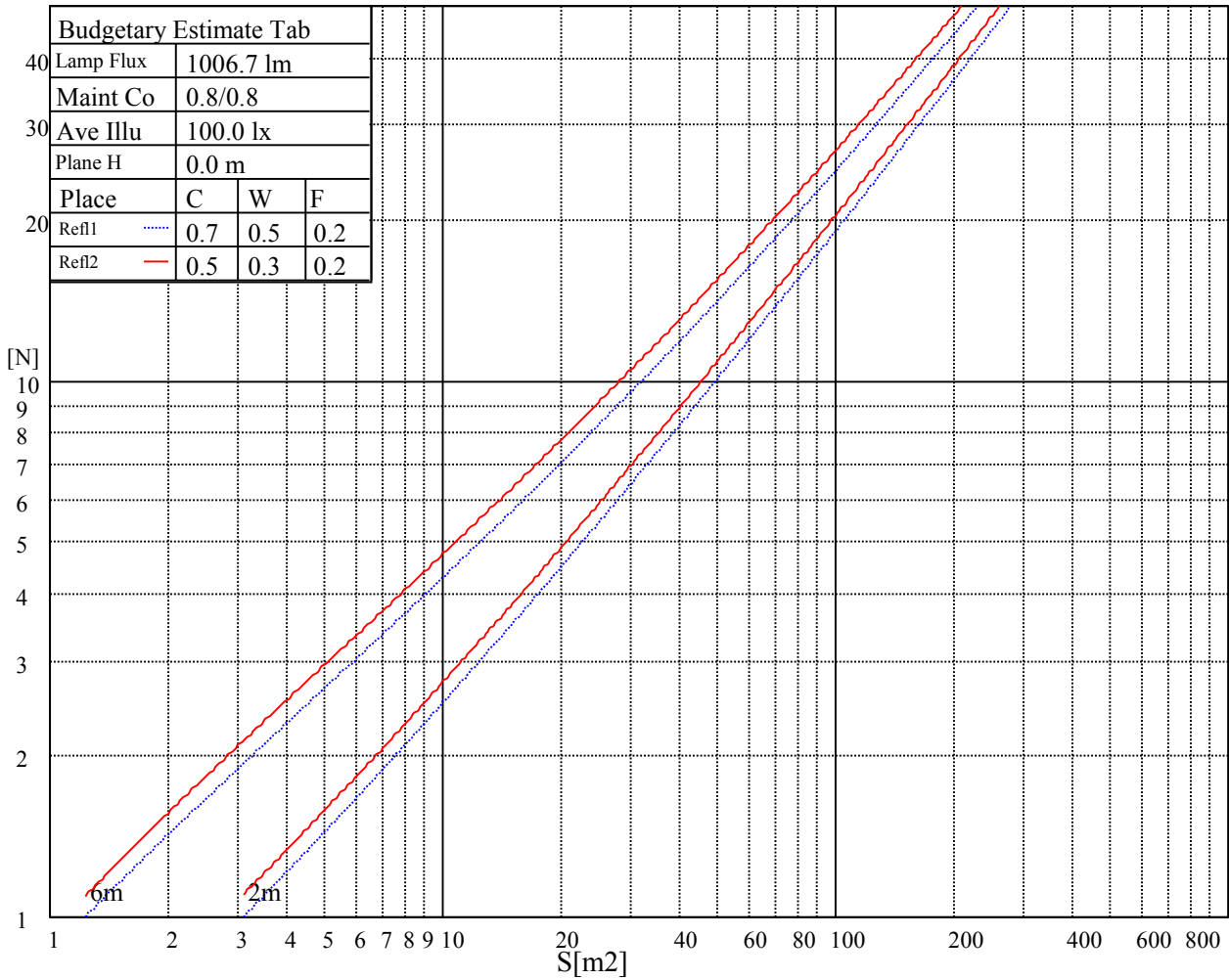
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2817	2817	2817	3206	3206	3206	4765	4765	4765

Glare Table

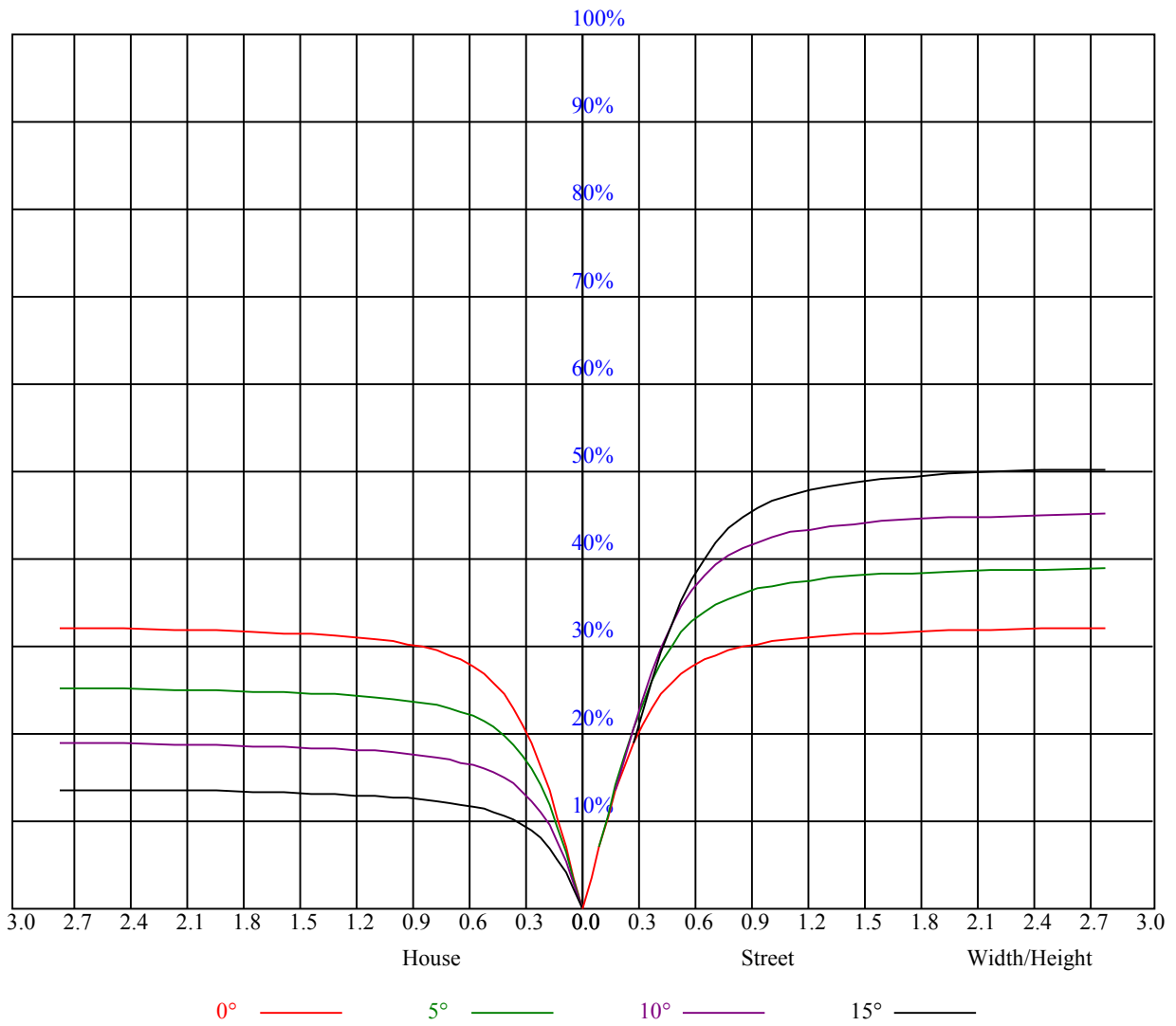
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.78	0.78	0.78	0.76	0.76	0.76	0.73	0.73	0.73	0.70	0.70	0.70	0.67	0.67	0.67	0.66
1	0.72	0.70	0.69	0.71	0.69	0.68	0.68	0.67	0.66	0.66	0.65	0.64	0.63	0.62	0.62	0.61
2	0.67	0.64	0.62	0.66	0.63	0.61	0.64	0.62	0.60	0.62	0.60	0.58	0.60	0.58	0.57	0.56
3	0.62	0.59	0.56	0.61	0.58	0.56	0.60	0.57	0.55	0.58	0.56	0.54	0.57	0.55	0.53	0.52
4	0.58	0.55	0.52	0.58	0.54	0.52	0.56	0.53	0.51	0.55	0.52	0.50	0.54	0.52	0.50	0.49
5	0.55	0.51	0.48	0.54	0.51	0.48	0.53	0.50	0.48	0.52	0.49	0.47	0.51	0.49	0.47	0.46
6	0.52	0.48	0.45	0.51	0.48	0.45	0.50	0.47	0.45	0.49	0.47	0.44	0.49	0.46	0.44	0.43
7	0.49	0.45	0.43	0.49	0.45	0.42	0.48	0.45	0.42	0.47	0.44	0.42	0.46	0.44	0.42	0.41
8	0.47	0.43	0.40	0.46	0.43	0.40	0.46	0.42	0.40	0.45	0.42	0.40	0.44	0.42	0.40	0.39
9	0.44	0.41	0.38	0.44	0.40	0.38	0.43	0.40	0.38	0.43	0.40	0.38	0.42	0.40	0.38	0.37
10	0.42	0.39	0.36	0.42	0.39	0.36	0.42	0.38	0.36	0.41	0.38	0.36	0.41	0.38	0.36	0.35



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	1174.86	1155.38	1045.80	856.56	620.95	391.02	234.11	142.03	89.21
45.0	1185.86	1149.88	1007.79	781.69	537.42	333.48	197.24	115.74	75.11
90.0	1185.62	1127.30	968.89	734.60	506.70	303.19	173.10	107.79	68.24
135.0	1183.23	1135.96	989.27	772.49	528.81	317.47	186.91	115.62	71.40
180.0	1174.86	1106.98	937.88	700.06	475.10	281.08	165.75	99.13	66.27
225.0	1185.86	1136.62	1004.15	796.98	557.97	339.16	208.06	122.43	77.20
270.0	1185.62	1158.25	1046.45	844.67	632.96	388.21	231.24	135.82	86.70
315.0	1183.65	1142.77	1017.59	804.57	581.16	358.28	214.63	129.78	81.80
360.0	1174.86	1155.38	1045.80	856.56	620.95	391.02	234.11	142.03	89.21
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	58.86	43.26	31.67	24.80	19.66	15.60	16.13	21.51	13.62
45.0	48.76	34.06	24.92	17.87	13.03	9.86	7.59	5.68	3.29
90.0	44.58	31.73	22.35	16.31	11.89	9.14	6.75	4.66	2.93
135.0	46.85	33.82	24.20	17.99	13.38	10.70	8.37	7.11	3.59
180.0	45.47	33.52	25.93	20.79	16.43	14.52	17.99	15.12	3.88
225.0	49.30	35.79	25.45	18.58	13.74	10.40	7.77	5.98	4.12
270.0	55.87	38.36	27.49	19.96	14.34	10.88	8.07	5.98	3.88
315.0	53.36	37.35	27.25	20.08	14.88	11.65	9.14	9.80	5.62
360.0	58.86	43.26	31.67	24.80	19.66	15.60	16.13	21.51	13.62
C/γ(°)	90.0								
0.0	2.75								
45.0	2.63								
90.0	2.57								
135.0	2.63								
180.0	3.35								
225.0	2.63								
270.0	2.63								
315.0	2.63								
360.0	2.75								