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Nata

LumCAT: LN01D02836DA-N
Luminaire: 92.70.307.00
Report No: 211111-B005
Test No: 211111-C005
LampCAT: LUMINUS CXM-6-AC40 LES6.3
Lamp flux(lm): 895.7
Number of Lamps: 1
Length(mm): 111
Phm Type: C

Voltage(V): 35.5400
Current(A): 0.2510
Power (W): 8.9200
PF: 0.0000
Ballast type: DC
Width(mm): 111
Height(mm): 0

Photometric Results

Lumens(lm): 574.58
Efficiency(%): 64.15%
Lumens(lm)/Power(W): 64.42
Central intensity(cd): 1022.566
Maximum intensity(cd): 1022.566
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=37.8
 [C90/270]Total=37.8
Field angle(10%Imax): [C0/180]Total=70.8
 [C90/270]Total=70.8
Maximum s/h(1/2): C0_180=0.62 C90_270=0.62
Maximum s/h(1/4): C0_180=0.62 C90_270=0.62
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 64.15%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 94.542%

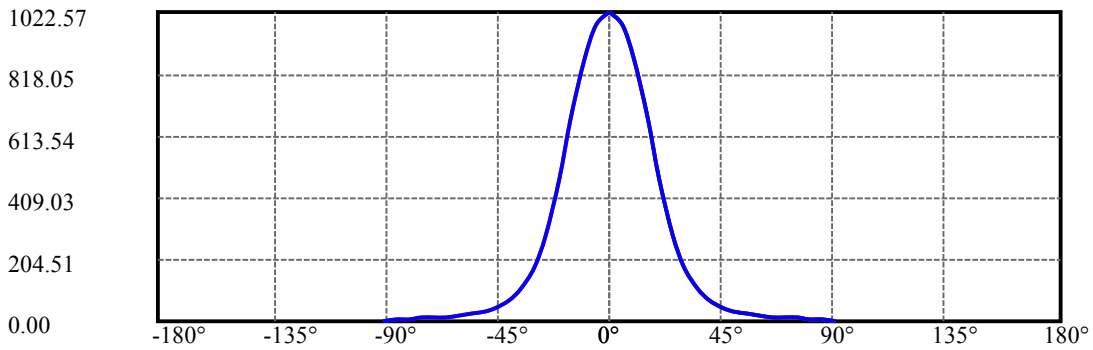
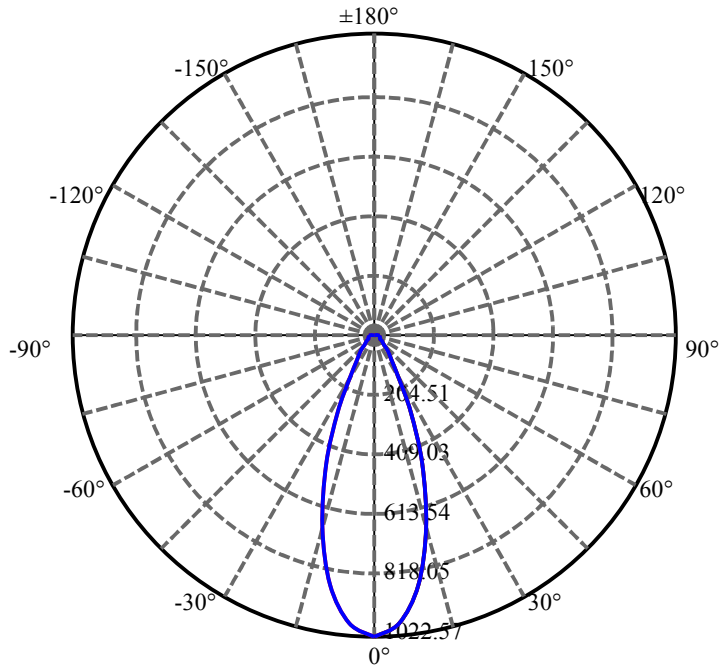
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1022.566	0.000	0	.000%	.000%
5.0	981.255	23.955	23.955	2.675%	4.169%
10.0	862.944	65.973	89.928	7.366%	15.651%
15.0	672.332	91.072	180.999	10.168%	31.501%
20.0	466.939	93.892	274.891	10.483%	47.842%
25.0	288.278	79.208	354.1	8.844%	61.627%
30.0	175.322	58.669	412.769	6.550%	71.838%
35.0	105.038	41.285	454.054	4.610%	79.023%
40.0	68.320	28.923	482.977	3.229%	84.057%
45.0	46.174	21.199	504.177	2.367%	87.746%
50.0	33.693	16.138	520.315	1.802%	90.555%
55.0	24.954	12.752	533.067	1.424%	92.774%
60.0	18.994	10.159	543.226	1.134%	94.542%
65.0	14.326	8.100	551.326	.904%	95.952%
70.0	11.629	6.572	557.898	.734%	97.096%
75.0	10.793	5.861	563.758	.654%	98.116%
80.0	9.165	5.340	569.099	.596%	99.045%
85.0	4.317	3.663	572.762	.409%	99.683%
90.0	2.338	1.822	574.584	.203%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	412.77	46.09%	71.84%
0-40	482.98	53.92%	84.06%
0-60	543.23	60.65%	94.54%
0-90	572.76	63.95%	99.68%
0-120	572.76	63.95%	99.68%
0-180	574.58	64.15%	100.00%
60-90	39.69	4.43%	6.91%
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%
0-35.97	459.67	51.32%	80.00%

ZONAL LUMEN SUMMARY

0-10	89.93
10-20	184.96
20-30	137.88
30-40	70.21
40-50	37.34
50-60	22.91
60-70	14.67
70-80	11.20
80-90	3.66
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



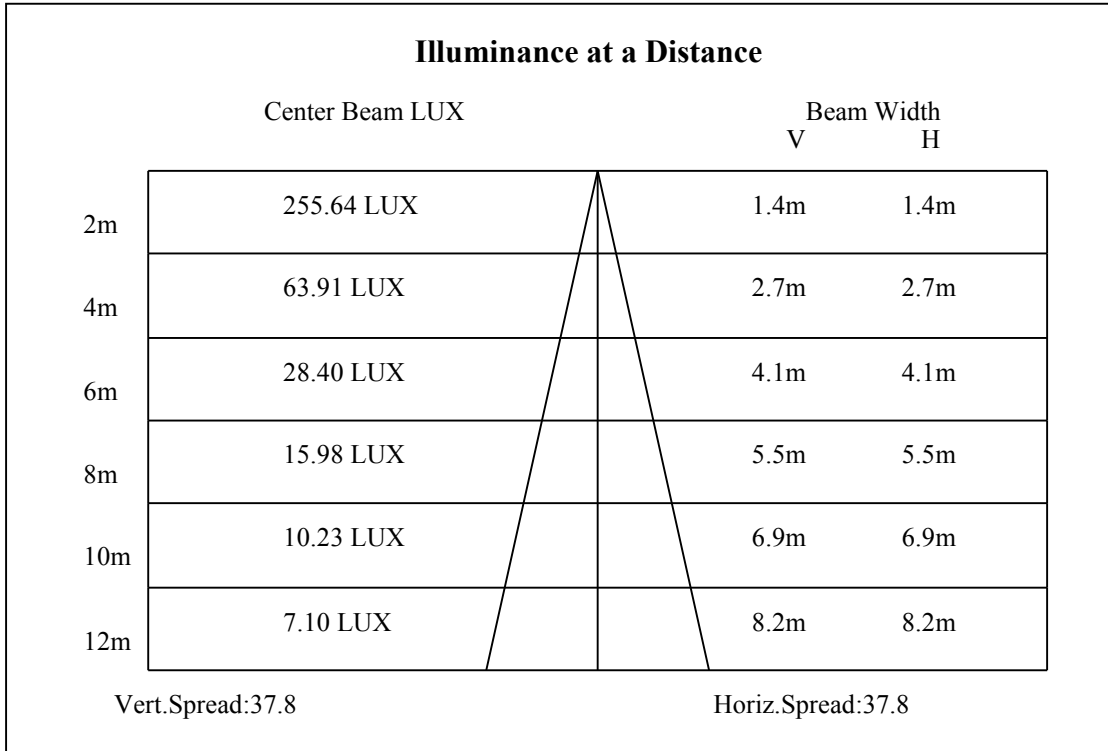
C0(Max): —————

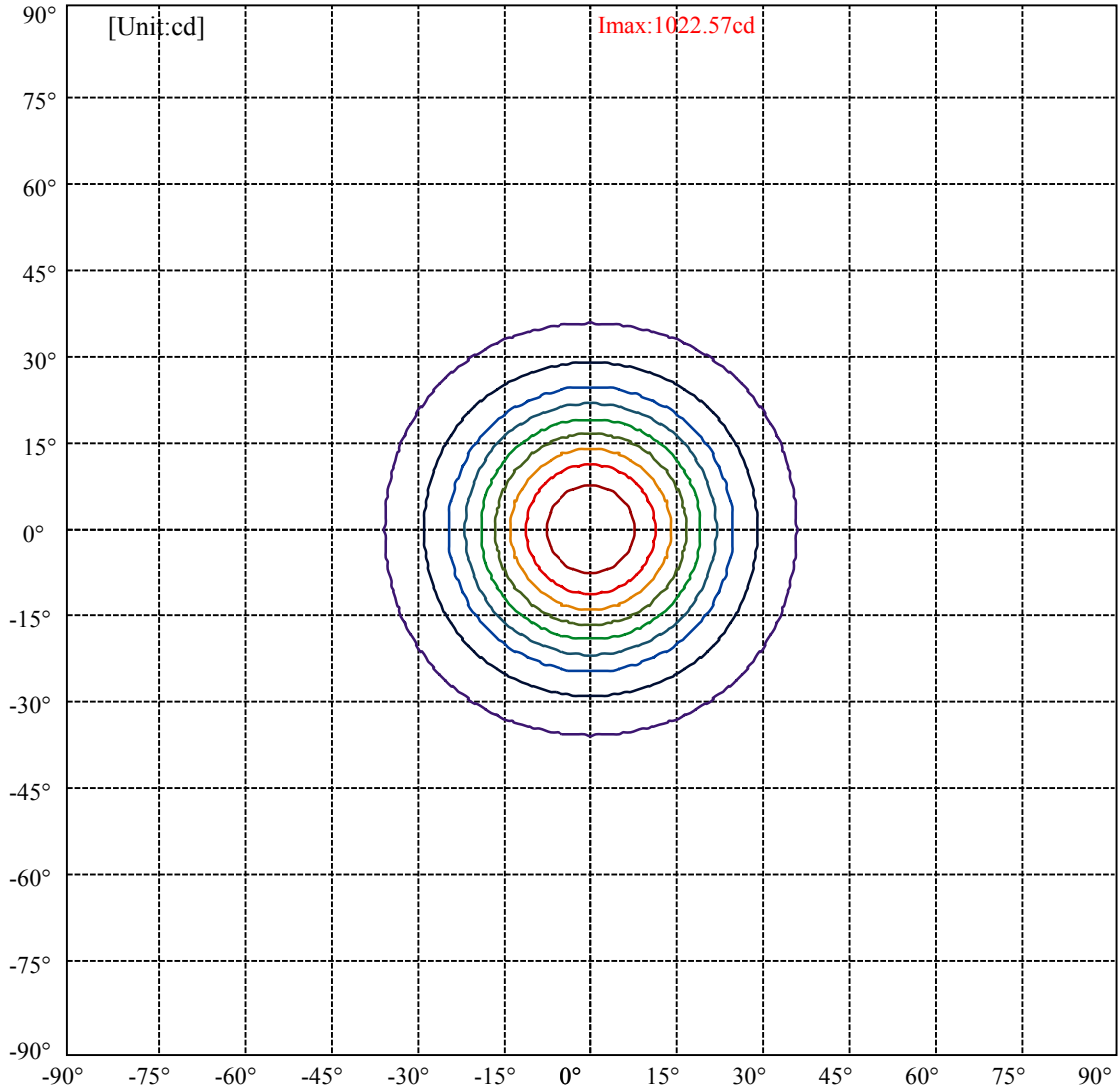
C0/C180: —————

C90/C270: —————

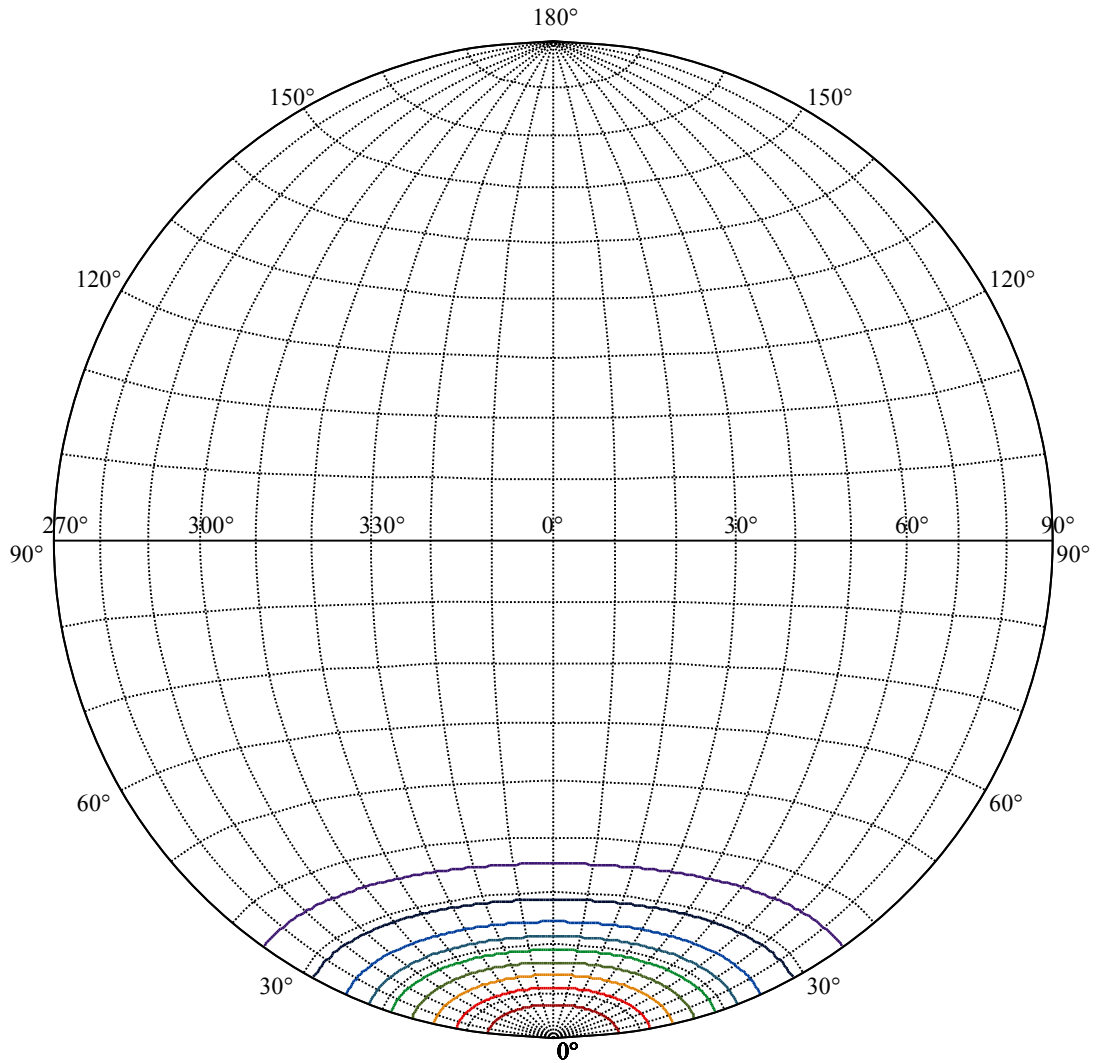
Field angle(10%Imax):C0/180Left:35.4 Right:35.4
:C90/270Left:35.4 Right:35.4

Beam Angle(50%Imax):C0/180Left:18.9 Right:18.9
:C90/270Left:18.9 Right:18.9





(10%Imax) 102.257	—
(20%Imax) 204.513	—
(30%Imax) 306.77	—
(40%Imax) 409.027	—
(50%Imax) 511.283	—
(60%Imax) 613.54	—
(70%Imax) 715.796	—
(80%Imax) 818.053	—
(90%Imax) 920.31	—



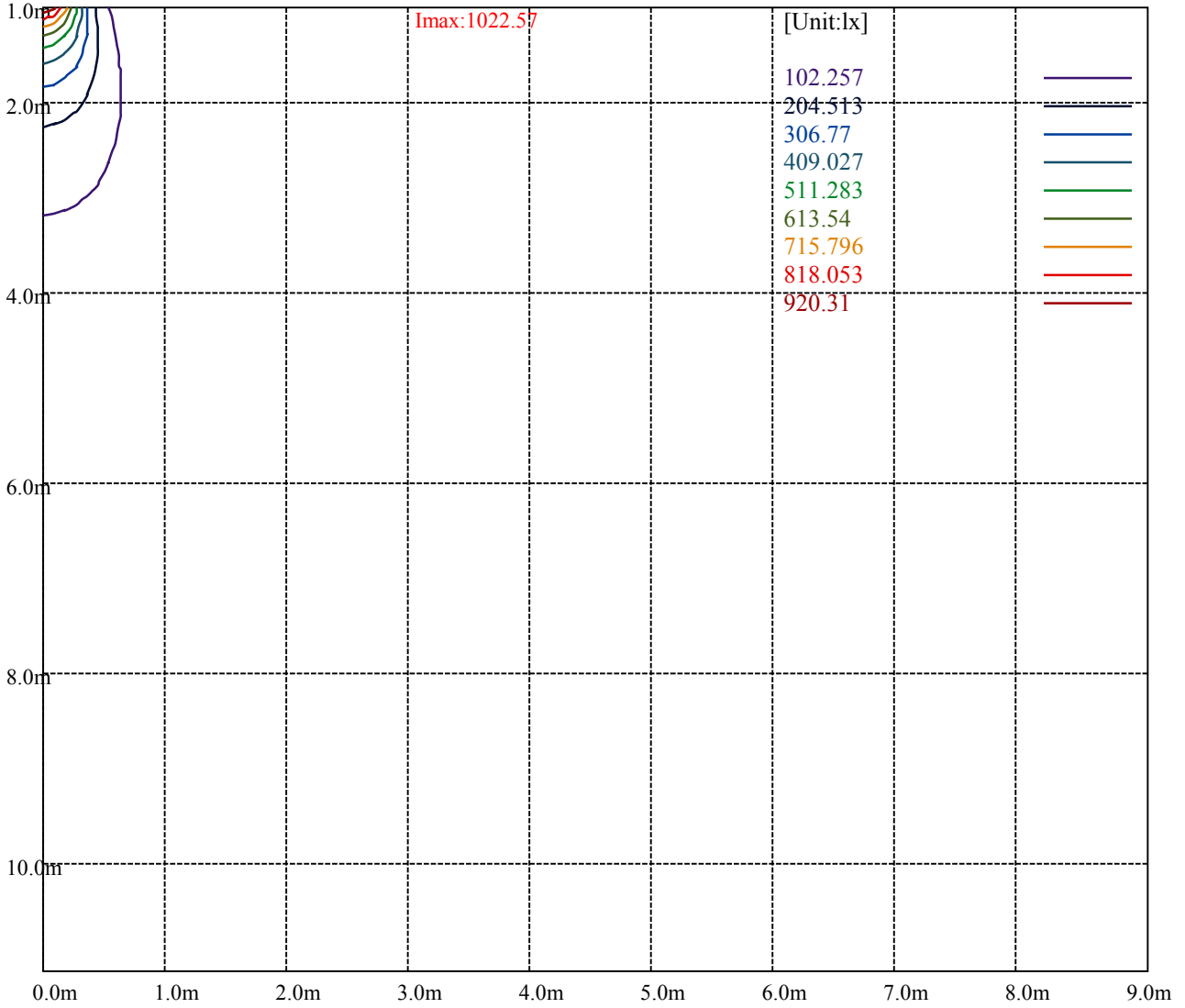
House

[Unit:cd]

Road

I_{max}:1022.57

(10%I _{max})	102.257	—
(20%I _{max})	204.513	—
(30%I _{max})	306.77	—
(40%I _{max})	409.027	—
(50%I _{max})	511.283	—
(60%I _{max})	613.54	—
(70%I _{max})	715.796	—
(80%I _{max})	818.053	—
(90%I _{max})	920.31	—



Luminance Table

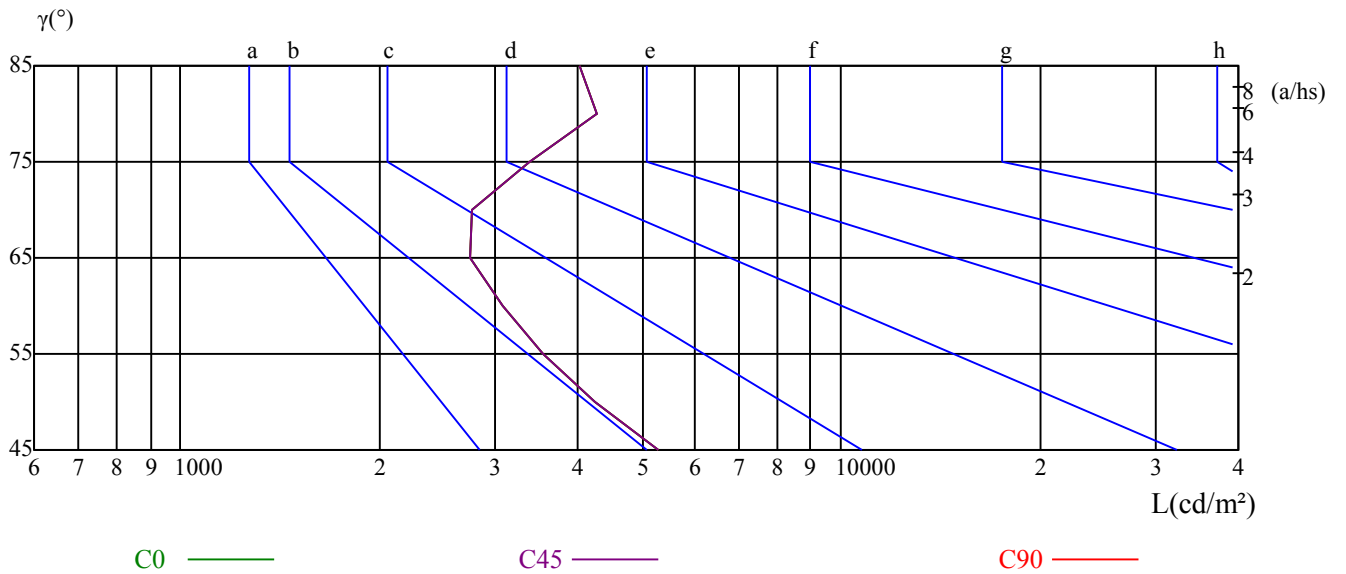
γ	45	50	55	60	65	70	75	80	85
C0	5300	4254	3531	3083	2751	2760	3385	4283	4020
C45	5300	4254	3531	3083	2751	2760	3385	4283	4020
C90	5300	4254	3531	3083	2751	2760	3385	4283	4020

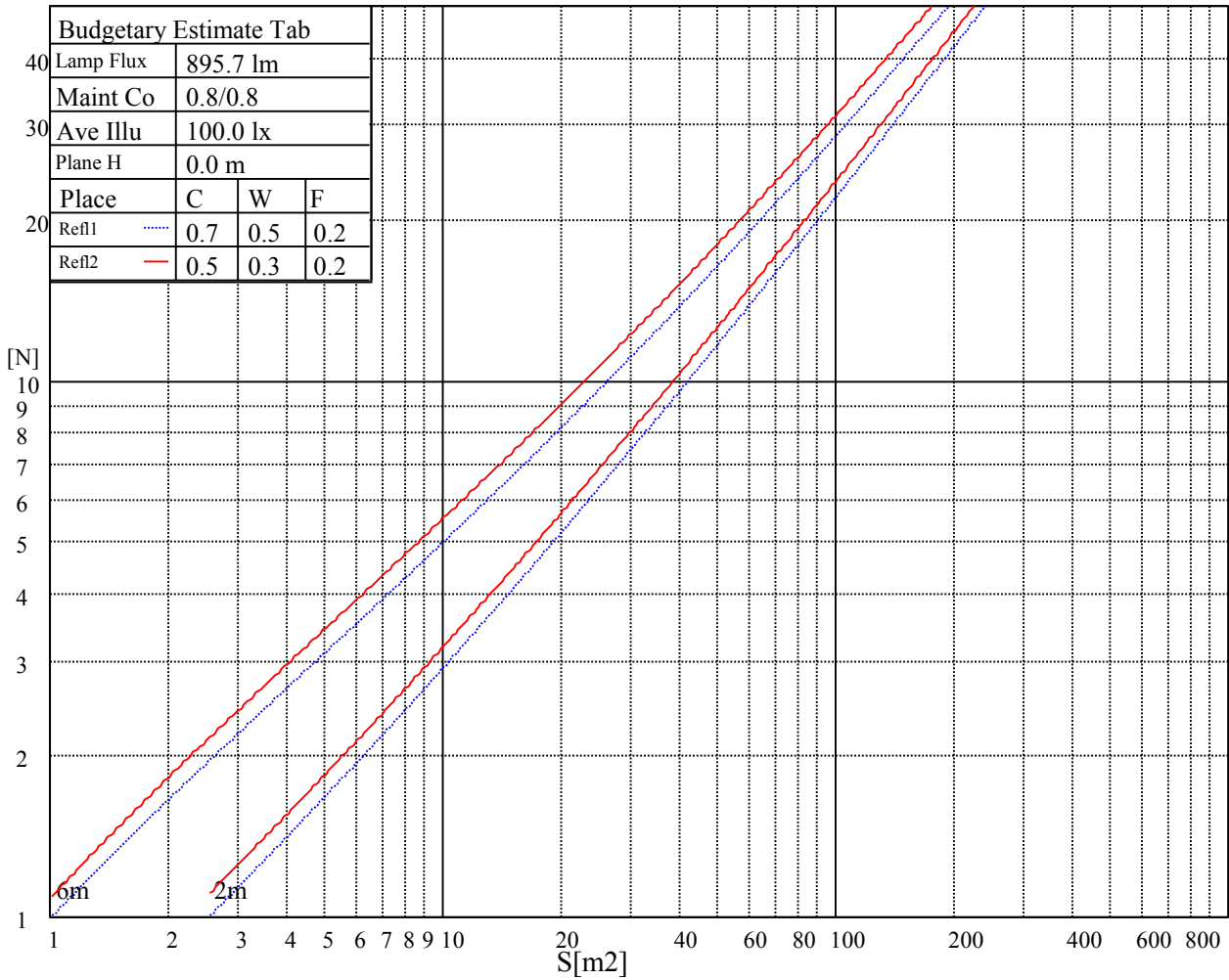
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2751	2751	2751	3385	3385	3385	4020	4020	4020

Glare Table

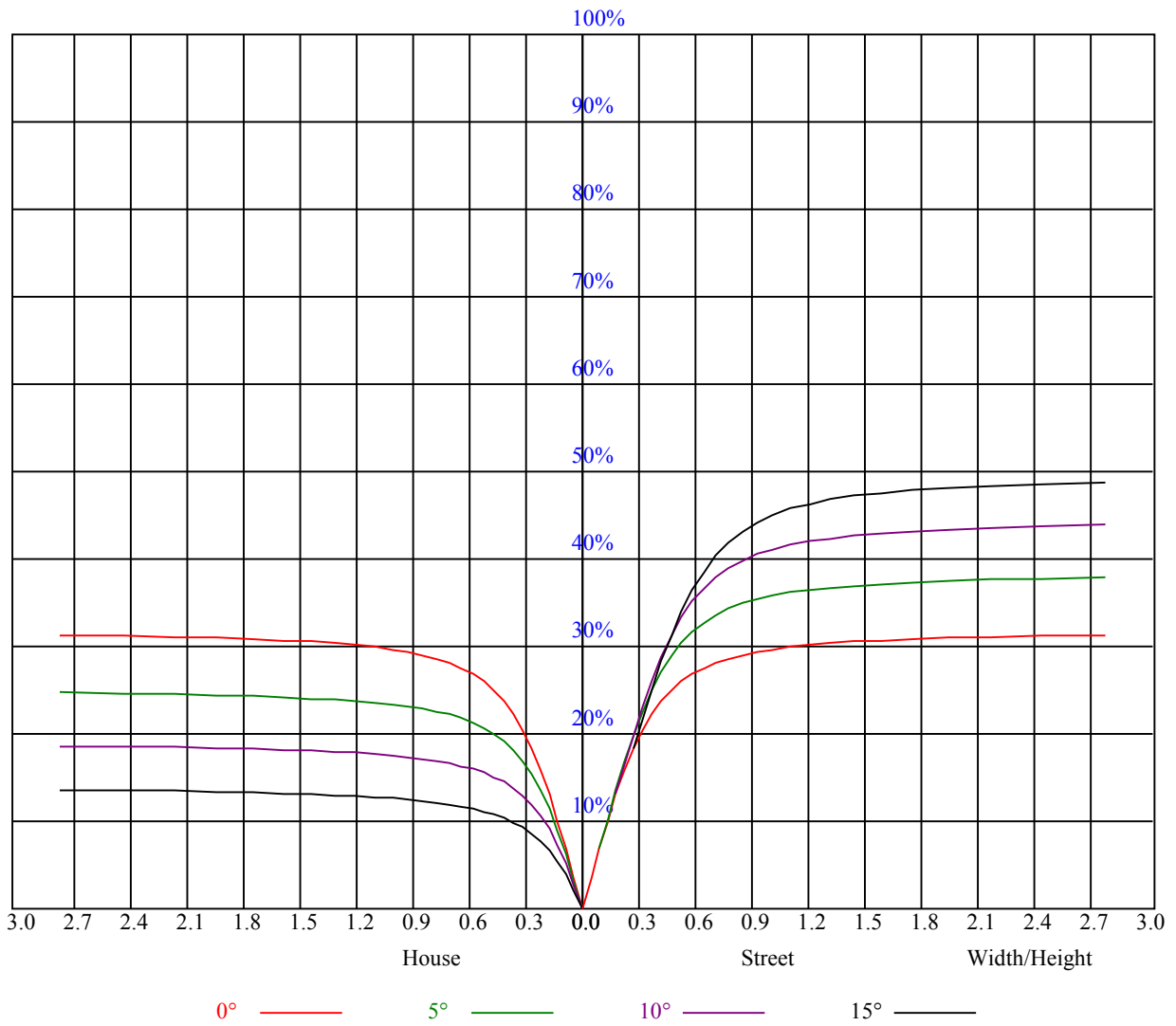
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.76	0.76	0.76	0.75	0.75	0.75	0.71	0.71	0.71	0.68	0.68	0.68	0.65	0.65	0.65	0.64
1	0.70	0.69	0.67	0.69	0.67	0.66	0.66	0.65	0.64	0.64	0.63	0.62	0.62	0.61	0.60	0.59
2	0.65	0.62	0.60	0.64	0.61	0.59	0.62	0.60	0.58	0.60	0.58	0.57	0.58	0.57	0.56	0.54
3	0.61	0.57	0.55	0.60	0.57	0.54	0.58	0.55	0.53	0.56	0.54	0.52	0.55	0.53	0.52	0.51
4	0.57	0.53	0.50	0.56	0.53	0.50	0.55	0.52	0.49	0.53	0.51	0.49	0.52	0.50	0.48	0.47
5	0.53	0.50	0.47	0.53	0.49	0.46	0.52	0.48	0.46	0.50	0.48	0.46	0.49	0.47	0.45	0.44
6	0.50	0.46	0.44	0.50	0.46	0.44	0.49	0.46	0.43	0.48	0.45	0.43	0.47	0.45	0.43	0.42
7	0.48	0.44	0.41	0.47	0.44	0.41	0.46	0.43	0.41	0.46	0.43	0.41	0.45	0.42	0.40	0.39
8	0.45	0.41	0.39	0.45	0.41	0.39	0.44	0.41	0.39	0.43	0.41	0.38	0.43	0.40	0.38	0.37
9	0.43	0.39	0.37	0.43	0.39	0.37	0.42	0.39	0.37	0.41	0.39	0.36	0.41	0.38	0.36	0.35
10	0.41	0.37	0.35	0.41	0.37	0.35	0.40	0.37	0.35	0.40	0.37	0.35	0.39	0.37	0.35	0.34



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	1019.62	1013.47	920.79	741.06	539.45	335.99	200.89	119.86	78.75
45.0	1025.90	989.81	883.45	679.27	467.33	281.85	173.10	102.42	65.73
90.0	1021.42	960.29	824.23	624.42	422.33	247.50	156.61	94.05	60.71
135.0	1023.33	961.72	835.94	635.11	430.64	267.63	161.33	96.92	66.03
180.0	1019.62	950.07	797.46	602.61	401.84	241.40	149.62	91.54	61.66
225.0	1025.90	977.38	863.31	669.71	464.70	291.47	176.75	106.24	68.12
270.0	1021.42	999.13	903.46	723.91	516.86	339.93	198.62	118.67	74.99
315.0	1023.33	998.17	874.90	702.57	492.36	300.44	185.65	110.60	70.57
360.0	1019.62	1013.47	920.79	741.06	539.45	335.99	200.89	119.86	78.75
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	53.90	42.19	33.76	26.35	20.32	16.49	16.37	16.85	8.60
45.0	44.22	31.19	22.41	17.27	12.55	9.80	7.53	5.80	3.35
90.0	41.23	29.10	20.67	15.48	11.29	8.54	6.04	4.36	2.57
135.0	42.84	30.65	22.11	16.85	12.55	9.80	7.59	5.80	3.29
180.0	44.93	36.27	29.04	22.77	18.40	17.99	25.22	22.05	3.76
225.0	45.95	32.39	23.42	17.69	13.03	10.04	7.77	6.27	4.36
270.0	50.01	34.60	24.38	18.11	13.03	9.86	7.59	5.44	3.47
315.0	46.31	33.16	23.84	17.45	13.44	10.52	8.25	6.75	5.14
360.0	53.90	42.19	33.76	26.35	20.32	16.49	16.37	16.85	8.60
C/ γ (°)	90.0								
0.0	2.39								
45.0	2.21								
90.0	2.27								
135.0	2.27								
180.0	2.75								
225.0	2.27								
270.0	2.27								
315.0	2.27								
360.0	2.39								