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Nata

LumCAT: LN01D03536EE-N

Luminaire: 92.70.307.00

Report No: 210519-B004

Voltage(V): 221.3000

Test No: 210519-C004

Current(A): 0.0730

LampCAT: LUMINUS CXM-6-AC40 LES6.3

Power (W): 8.0000

Lamp flux(lm): 873.4

PF: 0.4960

Number of Lamps: 1

Ballast type: DC

Length(mm): 74

Width(mm): 74

Phm Type: C

Height(mm): 56

Photometric Results

Lumens(lm): 591.92

Efficiency(%): 67.77%

Lumens(lm)/Power(W): 73.99

Central intensity(cd): 1043.283

Maximum intensity(cd): 1043.283

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=39.0

[C90/270]Total=39.0

Field angle(10%Imax): [C0/180]Total=68.9

[C90/270]Total=68.9

Maximum s/h(1/2): C0_180=0.64 C90_270=0.64

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(%): 67.77%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 93.564%

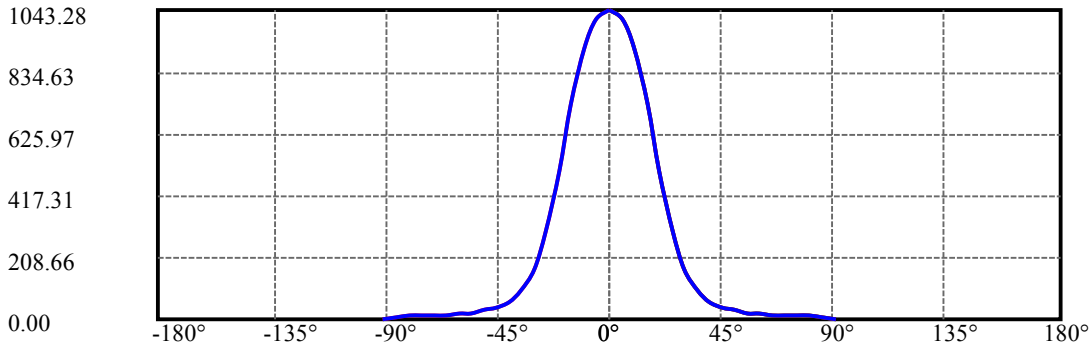
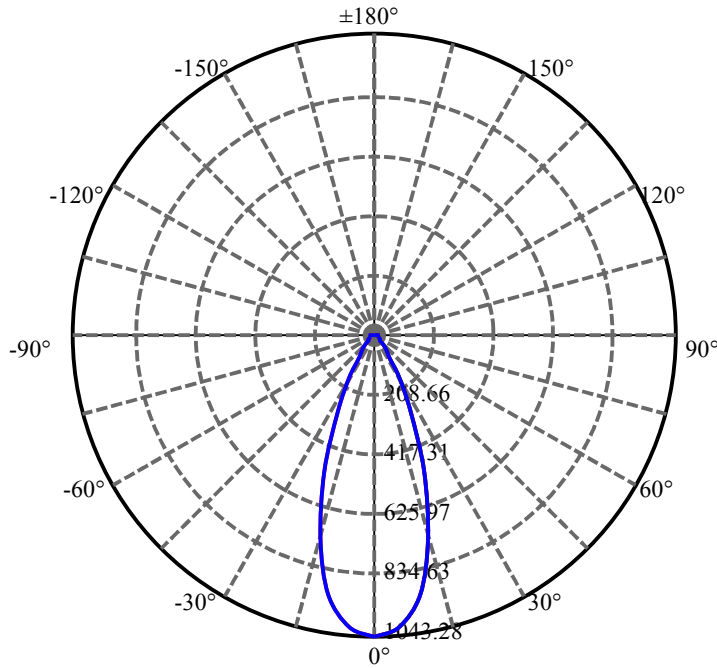
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1043.283	0.000	0	.000%	.000%
5.0	1012.198	24.573	24.573	2.813%	4.151%
10.0	914.238	68.915	93.487	7.890%	15.794%
15.0	728.536	97.448	190.936	11.157%	32.257%
20.0	498.860	101.155	292.09	11.581%	49.346%
25.0	295.770	83.342	375.432	9.542%	63.426%
30.0	170.023	58.946	434.379	6.749%	73.385%
35.0	96.539	39.253	473.632	4.494%	80.016%
40.0	61.031	26.289	499.921	3.010%	84.458%
45.0	41.245	18.937	518.859	2.168%	87.657%
50.0	29.756	14.347	533.205	1.643%	90.081%
55.0	22.331	11.326	544.531	1.297%	91.994%
60.0	17.866	9.292	553.823	1.064%	93.564%
65.0	15.040	8.000	561.822	.916%	94.915%
70.0	15.504	7.734	569.556	.885%	96.222%
75.0	16.102	8.261	577.817	.946%	97.618%
80.0	11.735	7.448	585.265	.853%	98.876%
85.0	4.957	4.536	589.801	.519%	99.642%
90.0	2.777	2.118	591.919	.242%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	434.38	49.73%	73.38%
0-40	499.92	57.24%	84.46%
0-60	553.82	63.41%	93.56%
0-90	589.80	67.53%	99.64%
0-120	589.80	67.53%	99.64%
0-180	591.92	67.77%	100.00%
60-90	45.27	5.18%	7.65%
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%
0-34.99	473.54	54.22%	80.00%

ZONAL LUMEN SUMMARY

0-10	93.49
10-20	198.60
20-30	142.29
30-40	65.54
40-50	33.28
50-60	20.62
60-70	15.73
70-80	15.71
80-90	4.54
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: —————

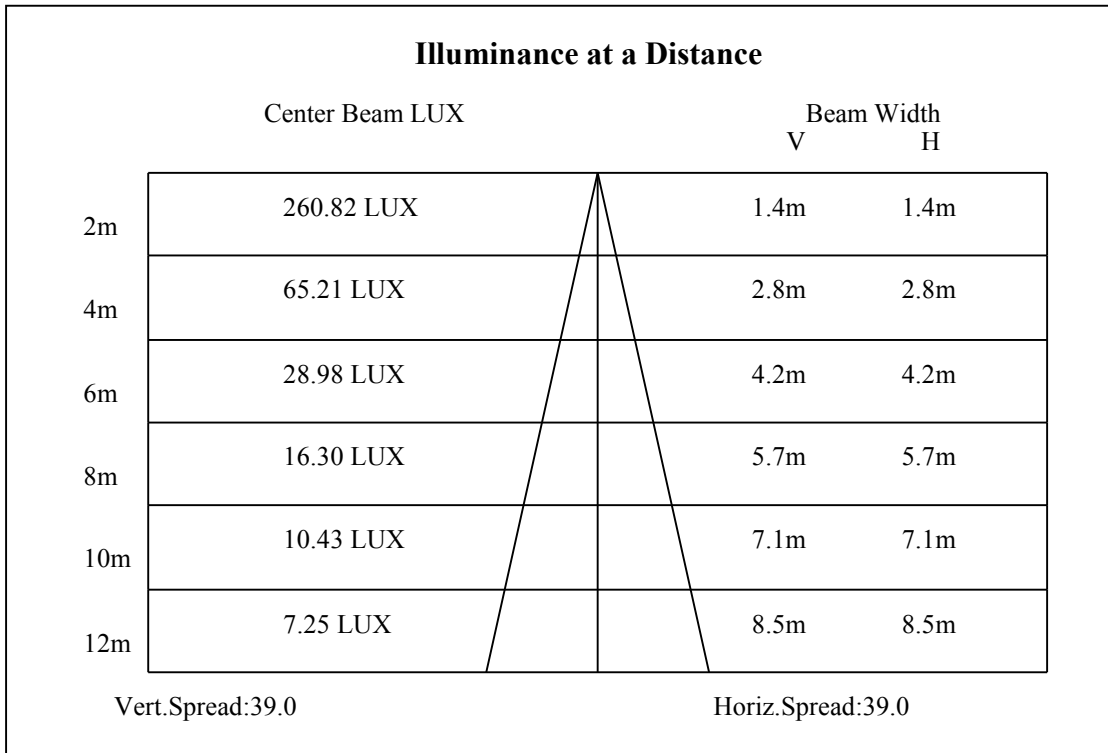
C90/C270: —————

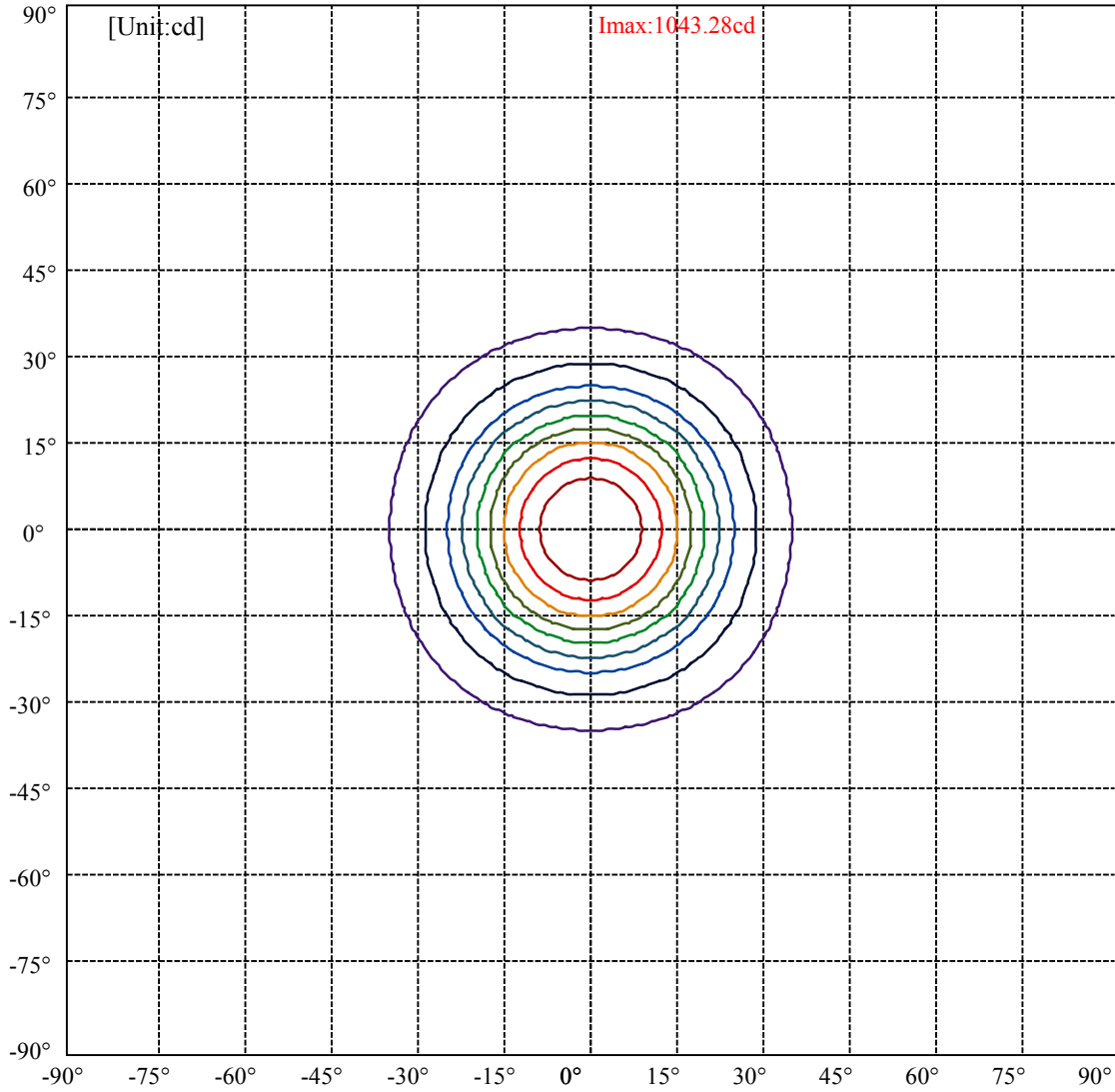
Field angle(10%Imax):C0/180Left:34.5 Right:34.5

:C90/270Left:34.5 Right:34.5

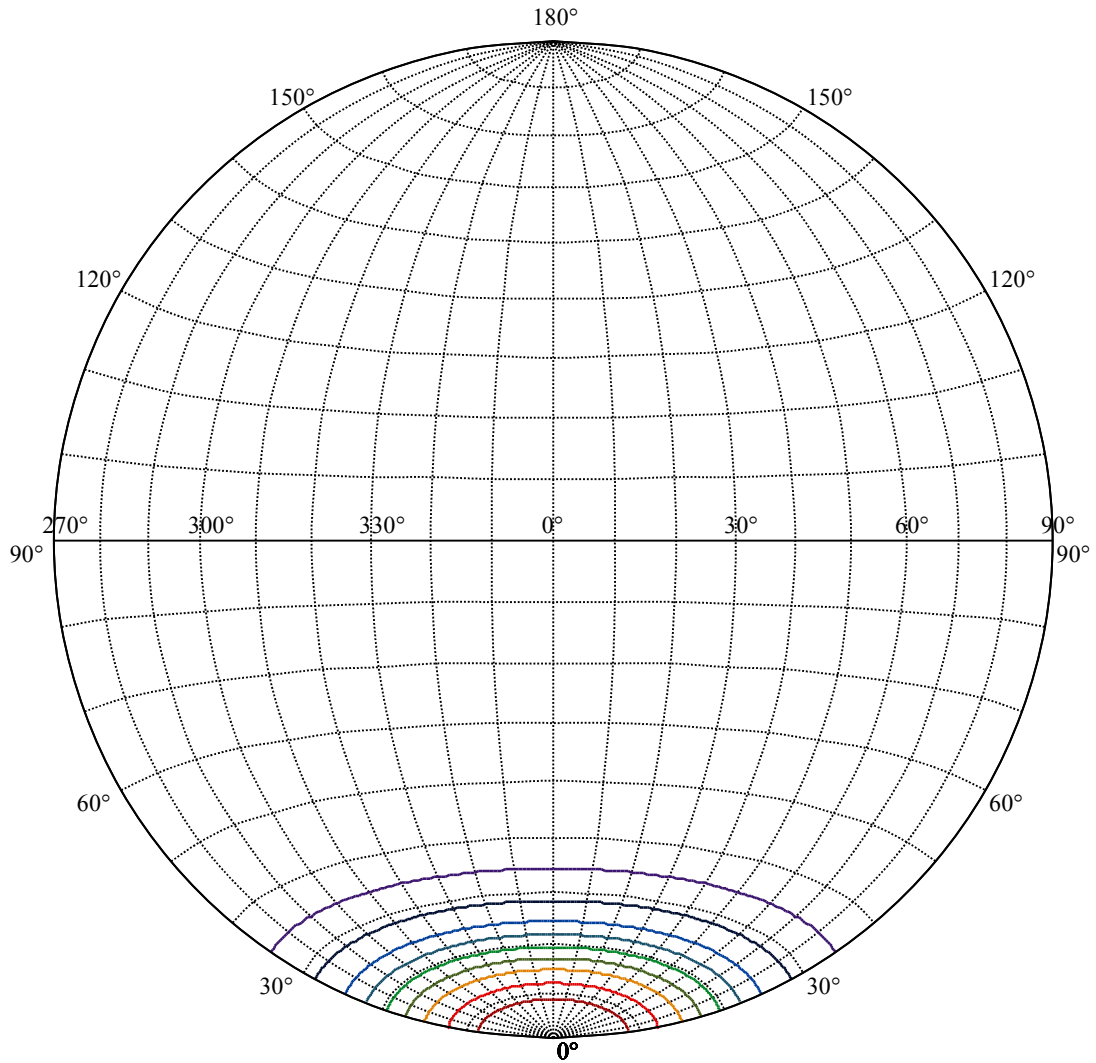
Beam Angle(50%Imax):C0/180Left:19.5 Right:19.5

:C90/270Left:19.5 Right:19.5





(10%Imax) 104.328	—
(20%Imax) 208.657	—
(30%Imax) 312.985	—
(40%Imax) 417.313	—
(50%Imax) 521.641	—
(60%Imax) 625.97	—
(70%Imax) 730.298	—
(80%Imax) 834.626	—
(90%Imax) 938.955	—



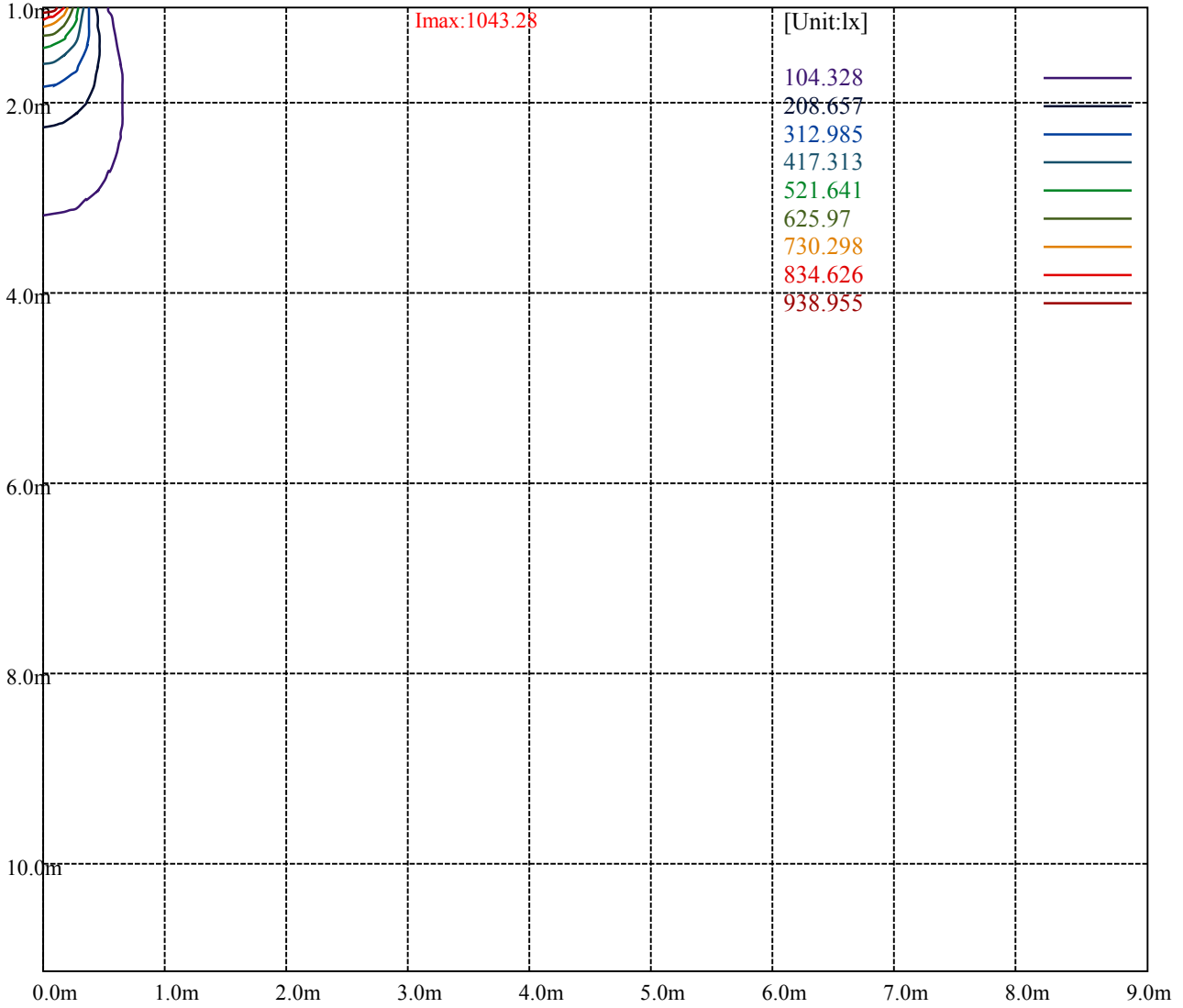
House

[Unit:cd]

Road

Imax:1043.28

(10%Imax) 104.328	—
(20%Imax) 208.657	—
(30%Imax) 312.985	—
(40%Imax) 417.313	—
(50%Imax) 521.641	—
(60%Imax) 625.97	—
(70%Imax) 730.298	—
(80%Imax) 834.626	—
(90%Imax) 938.955	—



Luminance Table

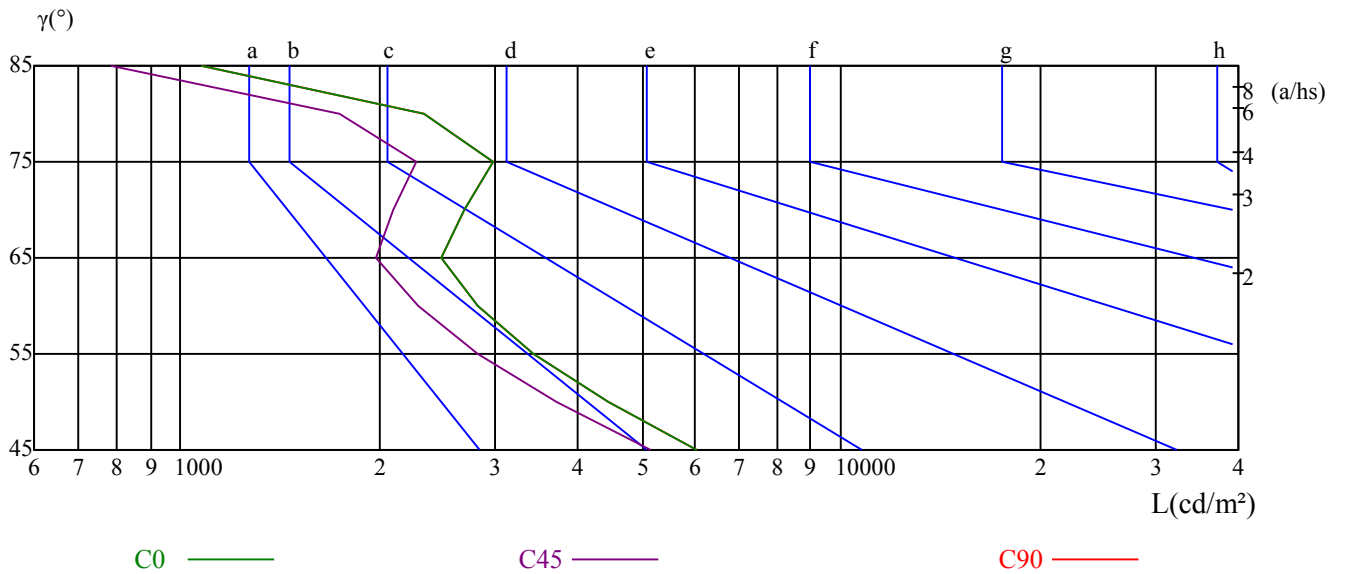
γ	45	50	55	60	65	70	75	80	85
C0	6063	4445	3417	2824	2478	2688	2971	2332	1076
C45	5145	3715	2812	2287	1972	2101	2275	1746	785
C90	6063	4445	3417	2824	2478	2688	2971	2332	1076

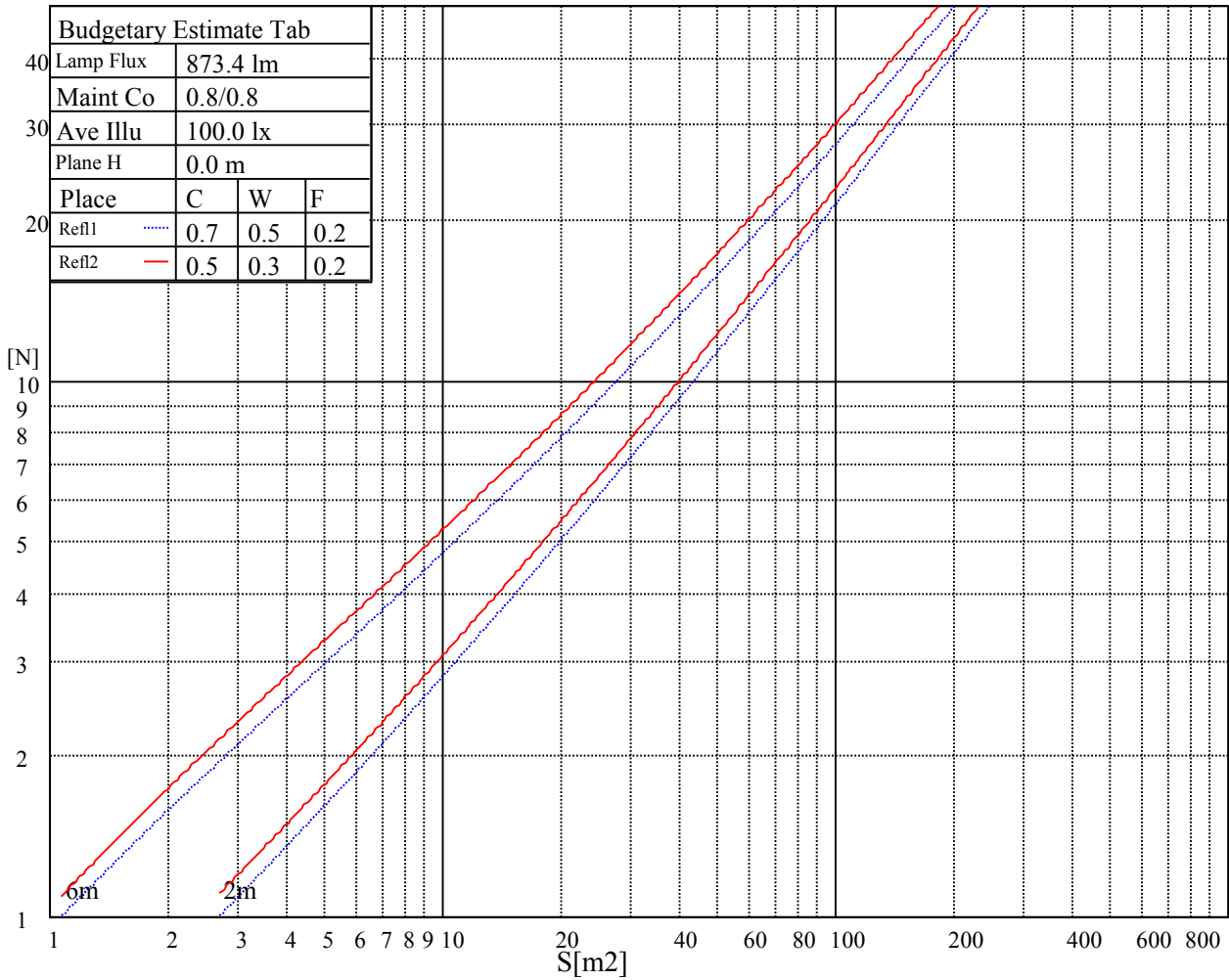
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
6499	6499	6499	11361	11361	11361	10386	10386	10386

Glare Table

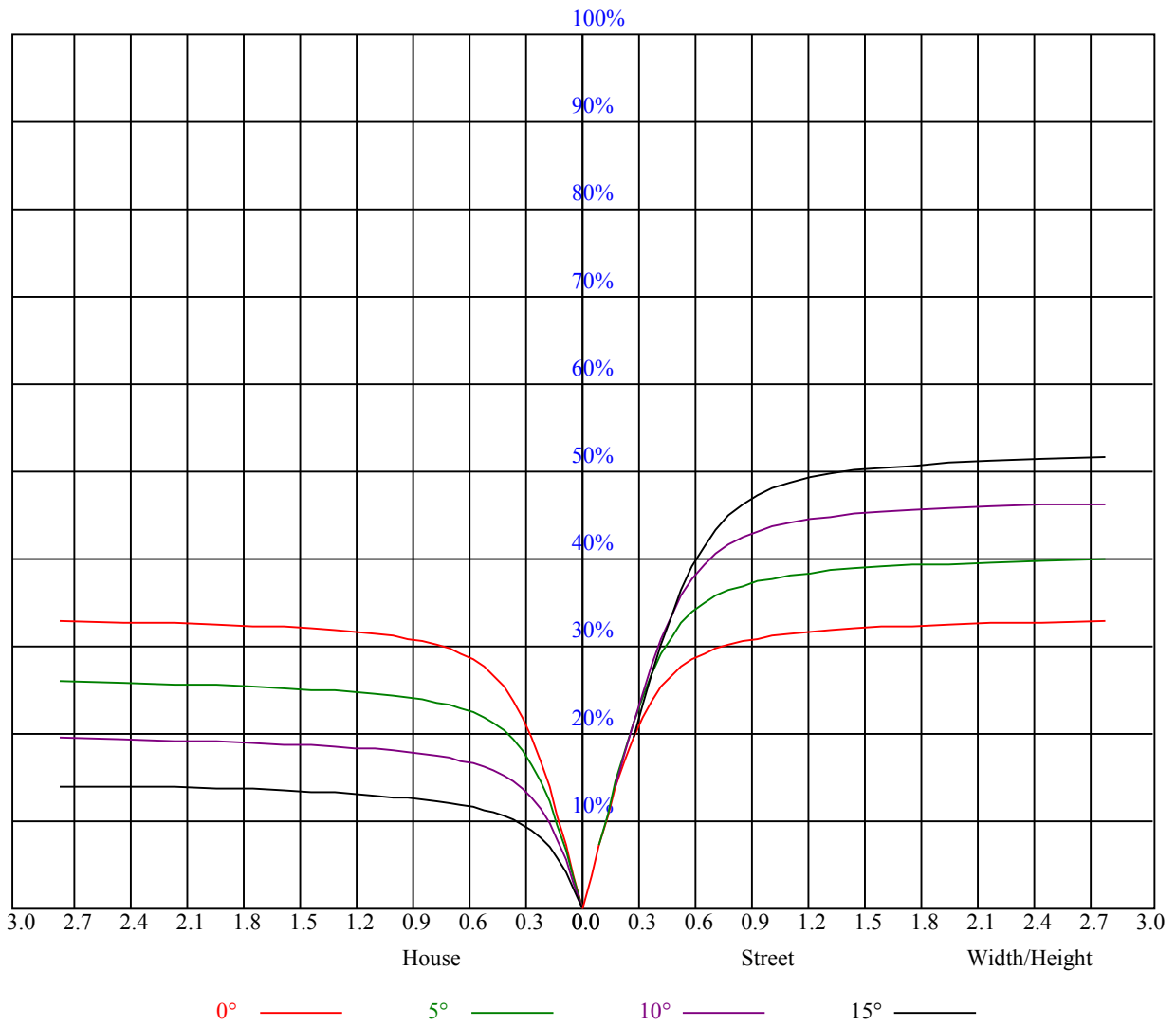
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.81	0.81	0.81	0.79	0.79	0.79	0.75	0.75	0.75	0.72	0.72	0.72	0.69	0.69	0.69	0.68
1	0.74	0.72	0.71	0.73	0.71	0.69	0.70	0.69	0.67	0.67	0.66	0.65	0.65	0.64	0.63	0.62
2	0.69	0.66	0.63	0.68	0.65	0.63	0.65	0.63	0.61	0.63	0.61	0.60	0.61	0.60	0.59	0.57
3	0.64	0.60	0.58	0.63	0.60	0.57	0.61	0.59	0.56	0.60	0.57	0.55	0.58	0.56	0.54	0.53
4	0.60	0.56	0.53	0.59	0.56	0.53	0.58	0.55	0.52	0.56	0.54	0.52	0.55	0.53	0.51	0.50
5	0.56	0.52	0.49	0.56	0.52	0.49	0.55	0.51	0.49	0.53	0.51	0.48	0.52	0.50	0.48	0.47
6	0.53	0.49	0.46	0.53	0.49	0.46	0.52	0.48	0.46	0.51	0.48	0.46	0.50	0.47	0.45	0.44
7	0.51	0.46	0.44	0.50	0.46	0.44	0.49	0.46	0.43	0.48	0.45	0.43	0.48	0.45	0.43	0.42
8	0.48	0.44	0.41	0.48	0.44	0.41	0.47	0.43	0.41	0.46	0.43	0.41	0.46	0.43	0.41	0.40
9	0.46	0.42	0.39	0.45	0.42	0.39	0.45	0.41	0.39	0.44	0.41	0.39	0.44	0.41	0.39	0.38
10	0.44	0.40	0.37	0.43	0.40	0.37	0.43	0.39	0.37	0.42	0.39	0.37	0.42	0.39	0.37	0.36



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	1036.46	1019.42	943.93	776.14	555.81	345.83	197.16	111.49	70.48
45.0	1047.71	1009.74	907.43	733.39	512.66	304.76	180.51	102.94	64.91
90.0	1045.35	997.76	896.74	705.77	483.86	292.61	166.56	94.84	59.74
135.0	1043.61	1007.10	916.31	732.26	504.73	313.99	172.69	97.37	61.20
180.0	1036.46	991.69	850.67	658.63	429.98	242.78	141.64	82.24	53.16
225.0	1047.71	1019.08	917.49	715.22	480.60	282.99	159.98	91.24	59.12
270.0	1045.35	1033.43	956.25	778.84	531.00	310.56	178.71	100.13	61.59
315.0	1043.61	1019.36	925.09	728.04	492.24	272.64	162.96	92.08	58.05
360.0	1036.46	1019.42	943.93	776.14	555.81	345.83	197.16	111.49	70.48
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	46.13	32.74	24.58	19.18	15.64	12.99	10.58	7.99	5.63
45.0	43.99	31.95	23.85	18.90	15.36	12.54	9.73	7.37	5.01
90.0	40.73	29.48	22.16	17.94	17.16	26.21	33.81	22.89	4.95
135.0	41.51	29.98	22.28	17.83	14.40	11.87	10.63	7.09	4.50
180.0	36.73	26.94	20.42	16.48	13.78	11.76	9.17	6.53	4.05
225.0	39.71	28.69	21.49	17.27	13.95	11.48	9.06	6.86	4.89
270.0	41.63	29.70	22.39	18.23	15.92	25.48	35.44	27.79	5.79
315.0	39.54	28.58	21.49	17.10	14.12	11.70	10.41	7.37	4.84
360.0	46.13	32.74	24.58	19.18	15.64	12.99	10.58	7.99	5.63
C/ γ (°)	90.0								
0.0	3.32								
45.0	2.98								
90.0	2.42								
135.0	2.59								
180.0	2.76								
225.0	3.04								
270.0	2.53								
315.0	2.59								
360.0	3.32								