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Nata

LumCAT: LN01D03536EE-N

Luminaire: 92.70.307.00

Report No: 210515-B004

Test No: 210515-C004

LampCAT: Bridgelux V6HD LES7

Lamp flux(lm): 917.5

Number of Lamps: 1

Length(mm): 74

Phm Type: C

Voltage(V): 223.0000

Current(A): 0.0730

Power (W): 8.1000

PF: 0.4950

Ballast type: DC

Width(mm): 74

Height(mm): 56

Photometric Results

Lumens(lm): 627.00

Efficiency(%): 68.34%

Lumens(lm)/Power(W): 77.41

Central intensity(cd): 1104.511

Maximum intensity(cd): 1104.511

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=38.6

[C90/270]Total=38.6

Field angle(10%Imax): [C0/180]Total=69.0

[C90/270]Total=69.0

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

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(%): 68.34%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 93.096%

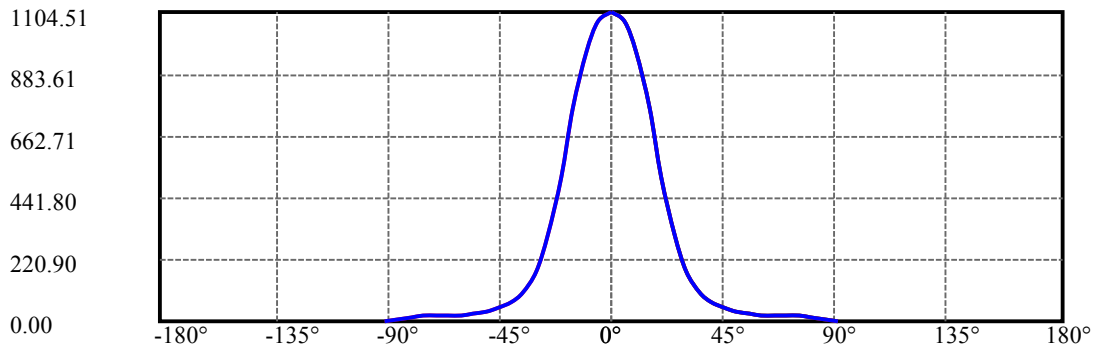
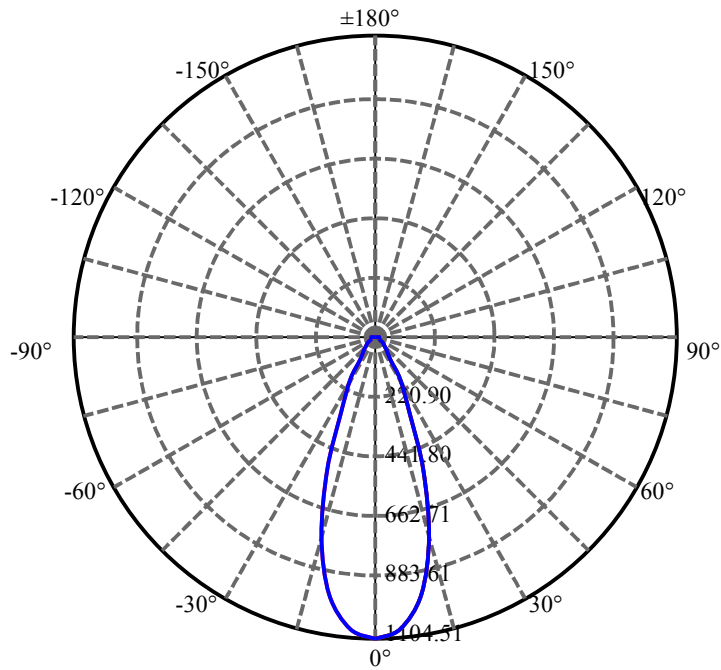
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1104.511	0.000	0	.000%	.000%
5.0	1070.515	26.002	26.002	2.834%	4.147%
10.0	959.548	72.622	98.624	7.915%	15.729%
15.0	760.155	102.012	200.635	11.119%	31.999%
20.0	517.795	105.321	305.956	11.479%	48.797%
25.0	307.800	86.590	392.546	9.438%	62.607%
30.0	178.924	61.595	454.141	6.713%	72.431%
35.0	103.212	41.546	495.688	4.528%	79.057%
40.0	66.579	28.328	524.016	3.088%	83.575%
45.0	45.415	20.737	544.753	2.260%	86.882%
50.0	33.110	15.867	560.62	1.729%	89.413%
55.0	25.010	12.637	573.257	1.377%	91.428%
60.0	20.236	10.459	583.716	1.140%	93.096%
65.0	17.445	9.160	592.876	.998%	94.557%
70.0	17.972	8.968	601.843	.977%	95.988%
75.0	17.909	9.379	611.222	1.022%	97.483%
80.0	13.380	8.372	619.594	.912%	98.819%
85.0	5.407	5.105	624.699	.556%	99.633%
90.0	3.002	2.303	627.002	.251%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	454.14	49.50%	72.43%
0-40	524.02	57.11%	83.57%
0-60	583.72	63.62%	93.10%
0-90	624.70	68.09%	99.63%
0-120	624.70	68.09%	99.63%
0-180	627.00	68.34%	100.00%
60-90	51.44	5.61%	8.20%
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%
0-36.04	501.60	54.67%	80.00%

ZONAL LUMEN SUMMARY

0-10	98.62
10-20	207.33
20-30	148.19
30-40	69.87
40-50	36.60
50-60	23.10
60-70	18.13
70-80	17.75
80-90	5.11
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: —————

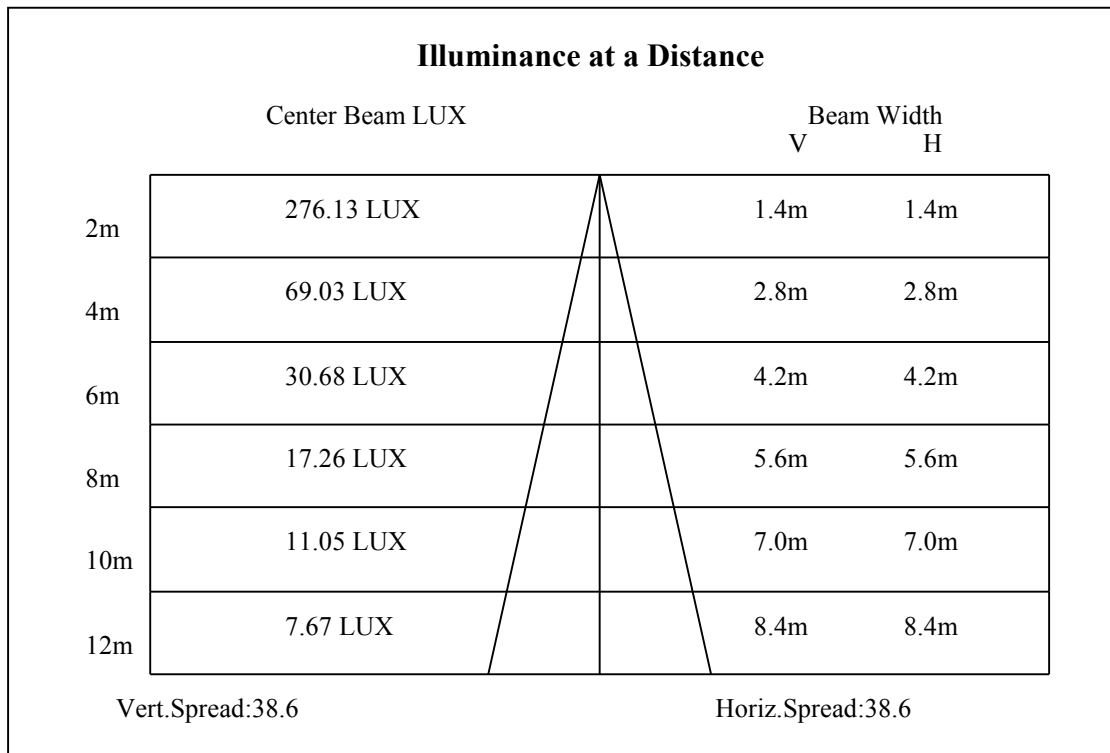
C90/C270: —————

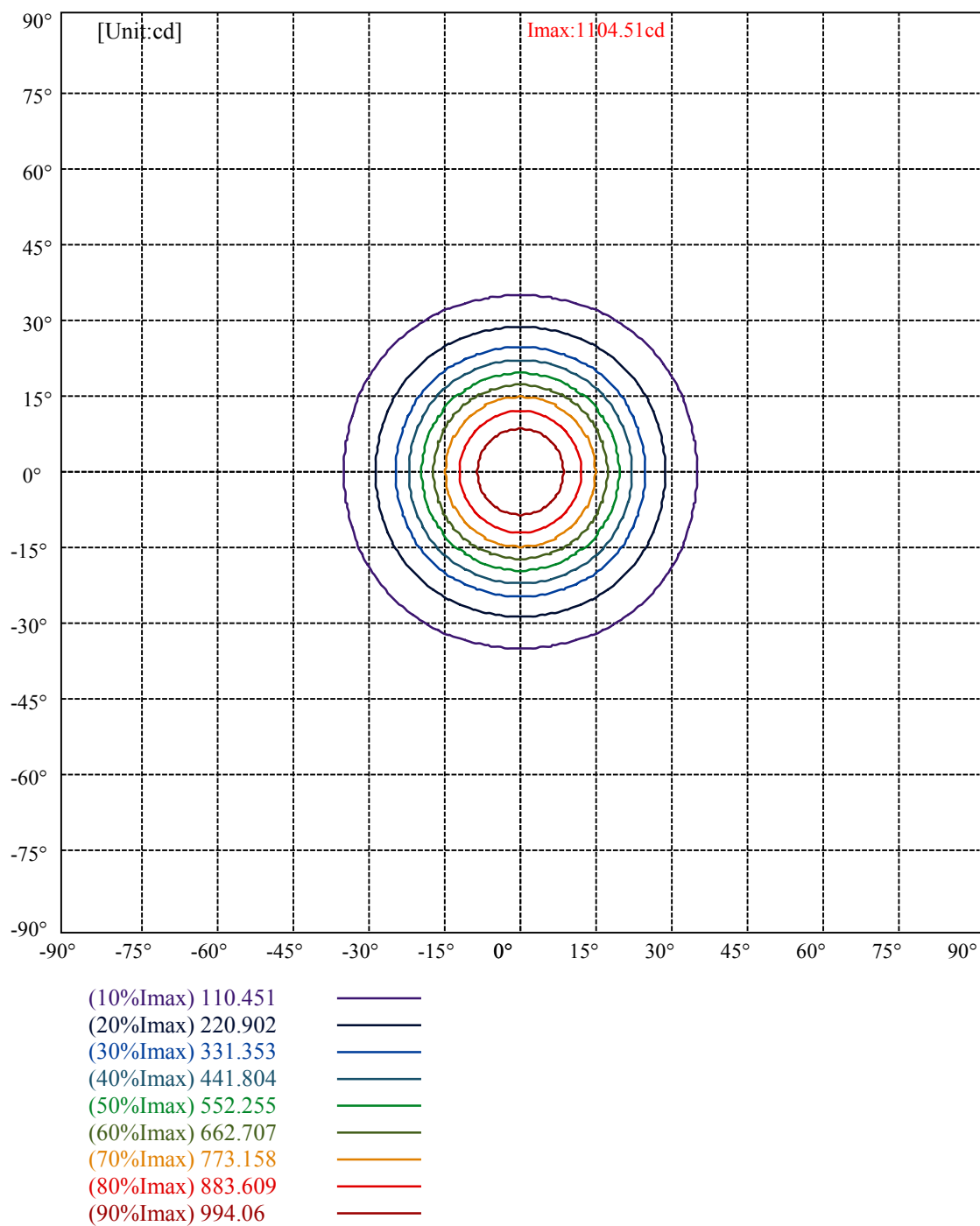
Field angle(10%Imax):C0/180Left:34.5 Right:34.5

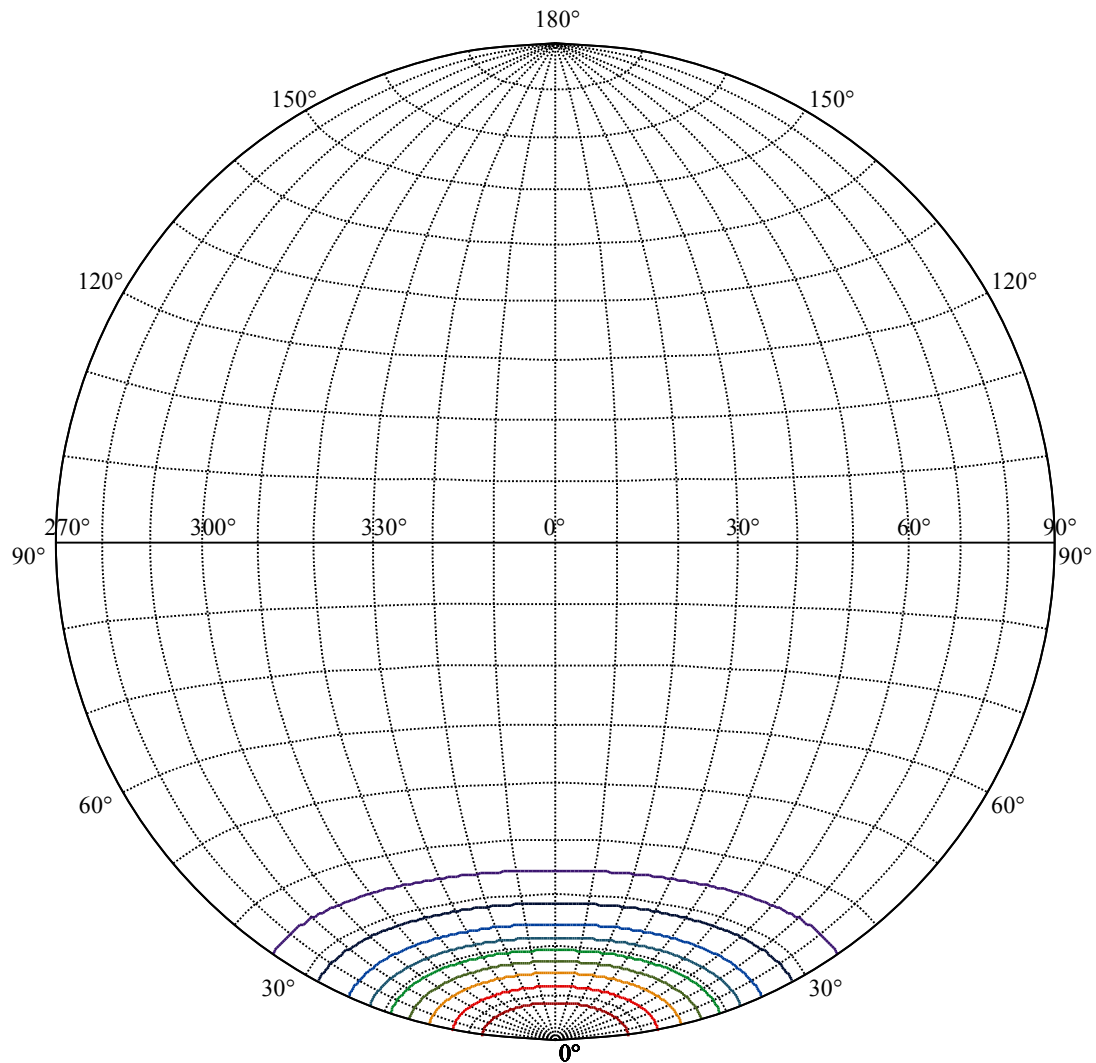
:C90/270Left:34.5 Right:34.5

Beam Angle(50%Imax):C0/180Left:19.3 Right:19.3

:C90/270Left:19.3 Right:19.3







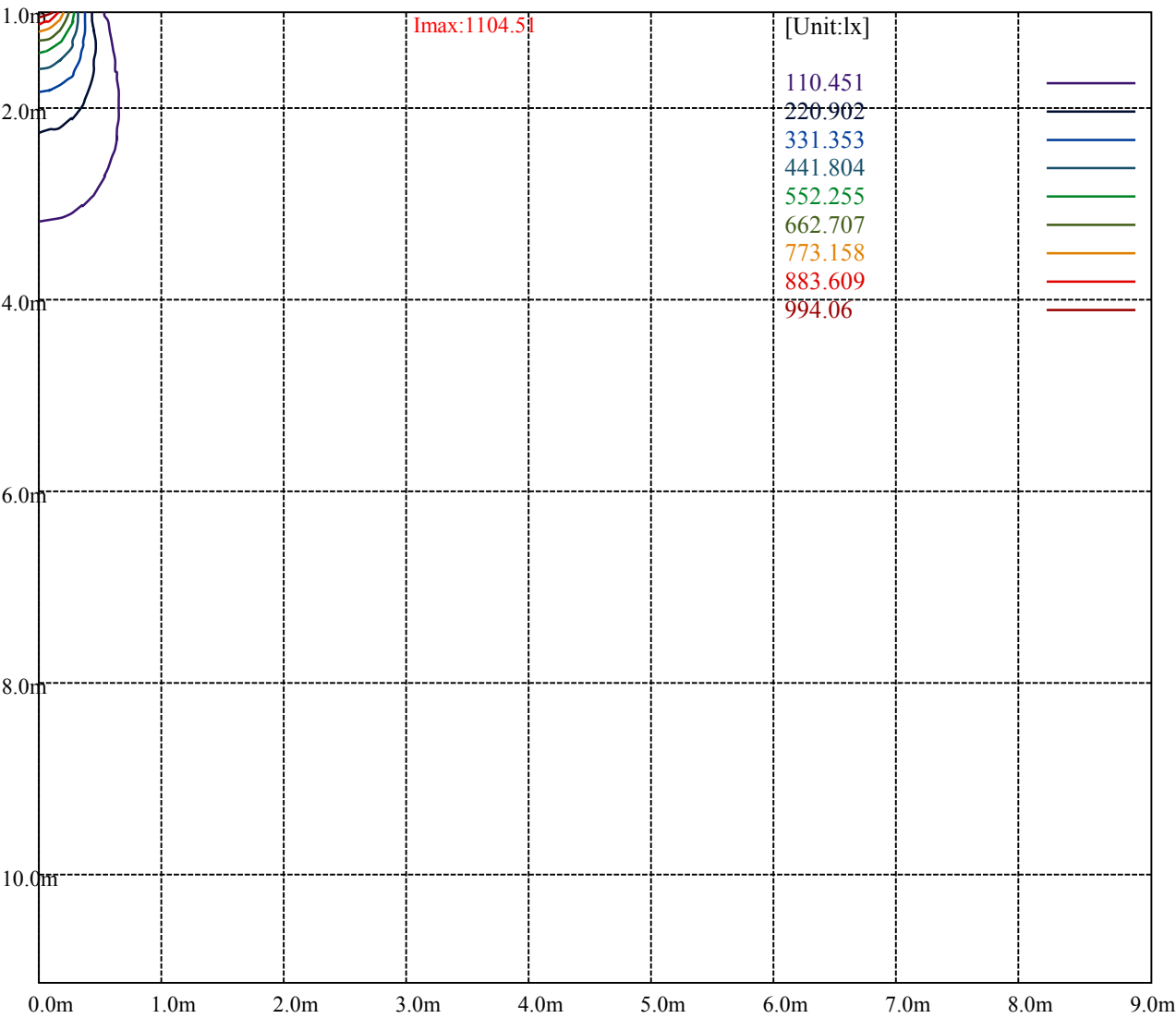
House

[Unit:cd]

Road

I_{max}:1104.51

(10%I _{max})	110.451	—
(20%I _{max})	220.902	—
(30%I _{max})	331.353	—
(40%I _{max})	441.804	—
(50%I _{max})	552.255	—
(60%I _{max})	662.707	—
(70%I _{max})	773.158	—
(80%I _{max})	883.609	—
(90%I _{max})	994.06	—



Luminance Table

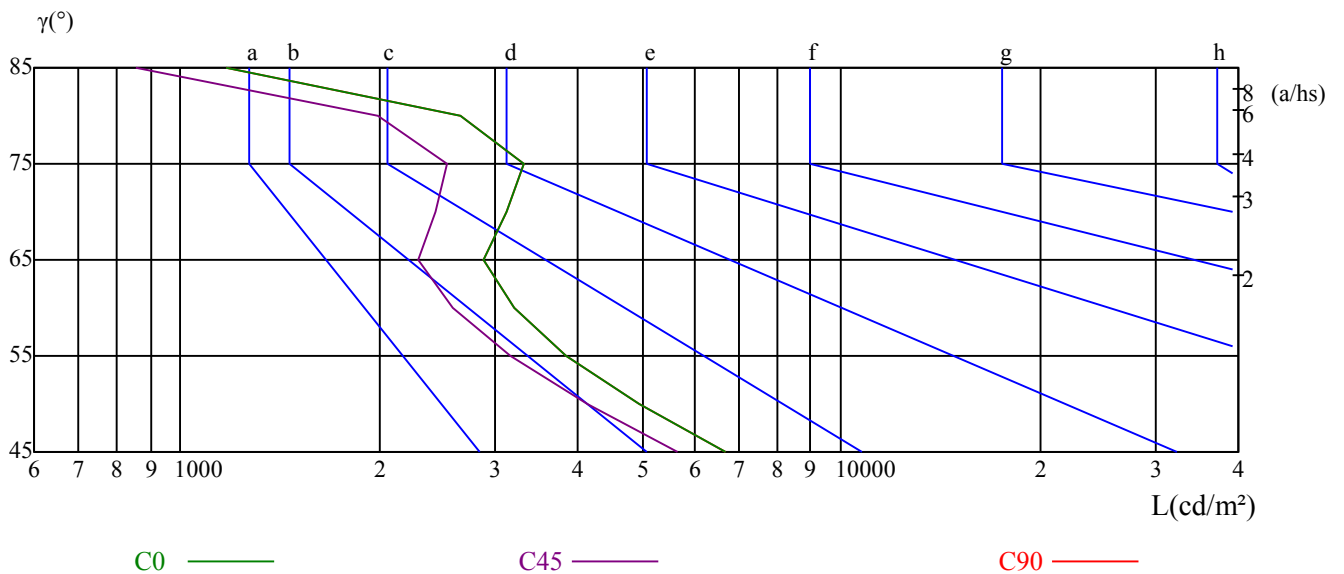
γ	45	50	55	60	65	70	75	80	85
C0	6676	4946	3827	3198	2874	3116	3304	2659	1174
C45	5665	4134	3149	2590	2288	2435	2530	1990	856
C90	6676	4946	3827	3198	2874	3116	3304	2659	1174

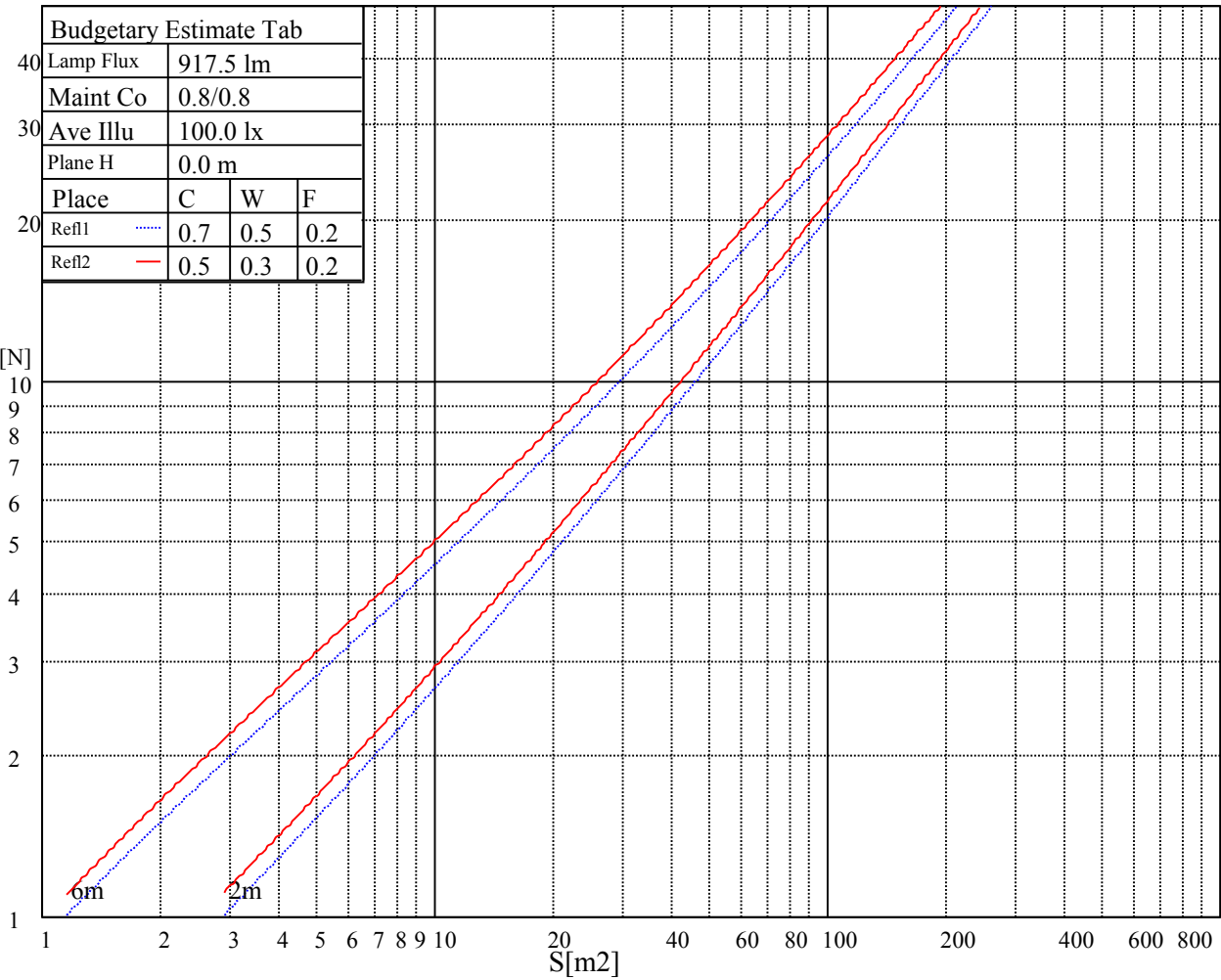
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
7538	7538	7538	12636	12636	12636	11329	11329	11329

Glare Table

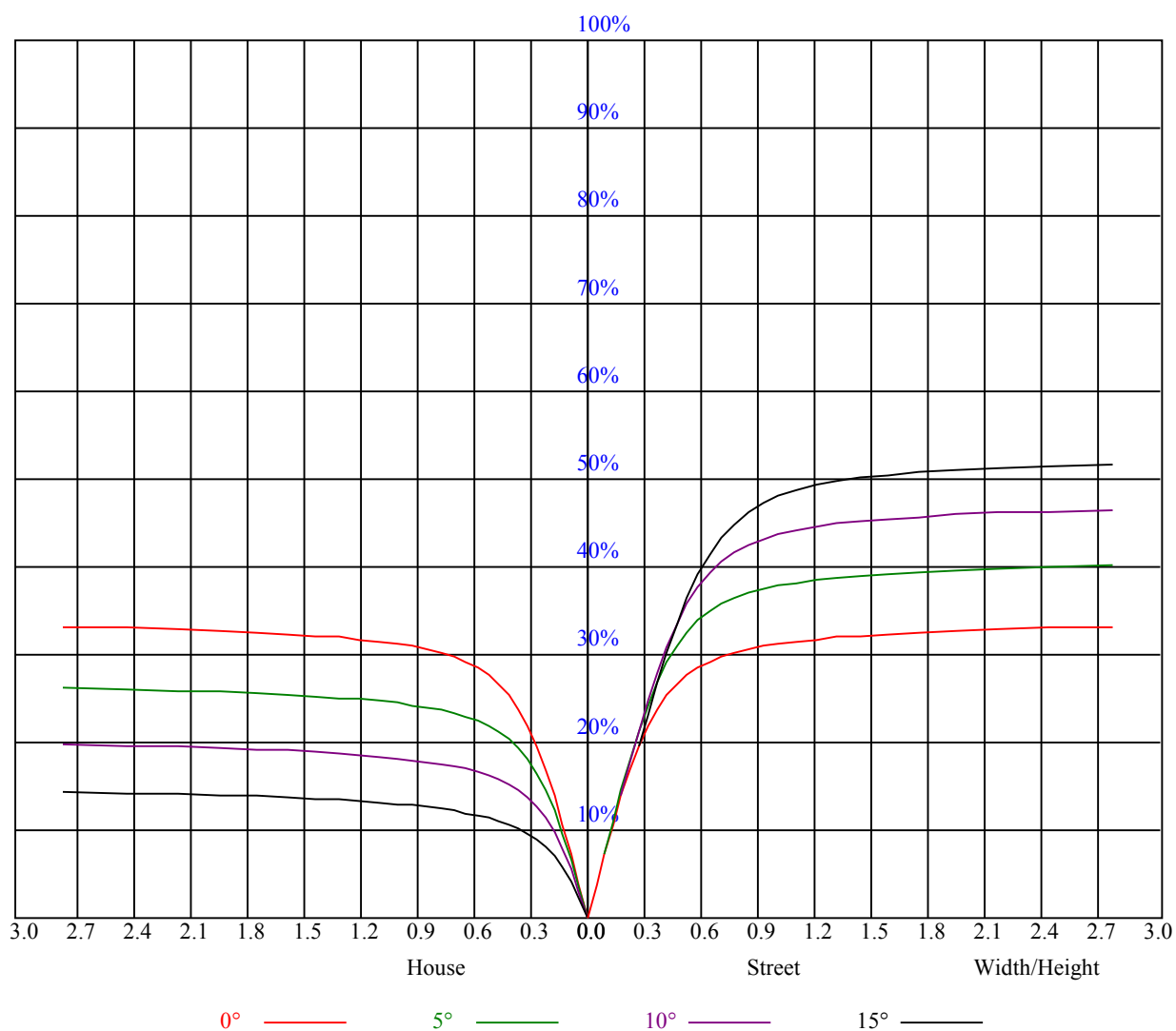
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

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	0.76	0.76	0.76	0.73	0.73	0.73	0.70	0.70	0.70	0.68
1	0.75	0.73	0.71	0.73	0.71	0.70	0.70	0.69	0.68	0.68	0.67	0.66	0.65	0.65	0.64	0.63
2	0.69	0.66	0.63	0.68	0.65	0.63	0.66	0.63	0.61	0.64	0.62	0.60	0.62	0.60	0.59	0.58
3	0.64	0.61	0.58	0.63	0.60	0.57	0.62	0.59	0.56	0.60	0.57	0.55	0.58	0.56	0.55	0.54
4	0.60	0.56	0.53	0.59	0.56	0.53	0.58	0.55	0.52	0.57	0.54	0.52	0.55	0.53	0.51	0.50
5	0.57	0.53	0.50	0.56	0.52	0.49	0.55	0.51	0.49	0.54	0.51	0.48	0.53	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	0.47	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)

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C/ γ (°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	1106.10	1074.09	966.26	772.43	539.89	330.86	189.79	109.52	71.10
45.0	1102.11	1060.82	938.19	733.84	489.54	283.05	166.73	96.41	62.21
90.0	1104.86	1063.80	934.99	706.39	459.17	268.31	151.71	88.31	57.15
135.0	1104.98	1082.93	976.67	773.66	504.79	305.38	167.01	95.57	63.28
180.0	1106.10	1068.47	931.89	728.94	480.94	275.85	162.68	95.29	62.16
225.0	1102.11	1077.98	982.97	790.14	553.67	339.19	196.59	112.84	73.24
270.0	1104.86	1079.38	1003.89	822.66	593.55	361.97	214.82	122.51	76.05
315.0	1104.98	1056.66	941.51	753.19	520.82	297.79	182.08	105.24	67.44
360.0	1106.10	1074.09	966.26	772.43	539.89	330.86	189.79	109.52	71.10

C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	47.64	34.31	25.76	20.98	17.44	14.74	12.60	8.94	5.74
45.0	43.14	31.67	23.91	19.24	15.81	13.05	10.07	7.65	4.61
90.0	40.28	29.53	22.84	18.79	22.50	34.14	39.88	24.41	4.28
135.0	43.03	31.67	23.85	19.24	15.58	12.83	10.29	7.54	4.67
180.0	42.58	32.06	24.86	20.14	16.76	13.56	10.46	7.59	4.78
225.0	48.88	35.38	26.61	21.32	17.27	14.18	11.19	8.33	5.96
270.0	51.24	36.51	27.00	21.99	17.89	27.84	38.42	34.65	7.76
315.0	46.52	33.75	25.26	20.19	16.31	13.44	10.35	7.93	5.46
360.0	47.64	34.31	25.76	20.98	17.44	14.74	12.60	8.94	5.74

C/ γ (°)	90.0
0.0	3.15
45.0	2.76
90.0	2.64
135.0	2.76
180.0	3.09
225.0	3.49
270.0	3.15
315.0	2.98
360.0	3.15