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Nata

LumCAT: 1-0924-M	
Luminaire: 92.70.123.00	
Report No: NATA0100	Voltage(V): 35.6500
Test No: GC2020021903	Current(A): 0.3000
LampCAT: BRIDGELUX V6 HD	Power (W): 10.7000
Lamp flux(lm): 1057.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 30	Width(mm): 30
Phm Type: C	Height(mm): 28

Photometric Results

Lumens(lm): 816.95
Efficiency(%): 77.29%
Lumens(lm)/Power(W): 76.35
Central intensity(cd): 2450.109
Maximum intensity(cd): 2450.109
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=34.5
 [C90/270]Total=34.5
Field angle(10%Imax): [C0/180]Total=53.0
 [C90/270]Total=53.0
Maximum s/h(1/2): C0_180=0.57 C90_270=0.57
Maximum s/h(1/4): C0_180=0.55 C90_270=0.55
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 77.29%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.668%

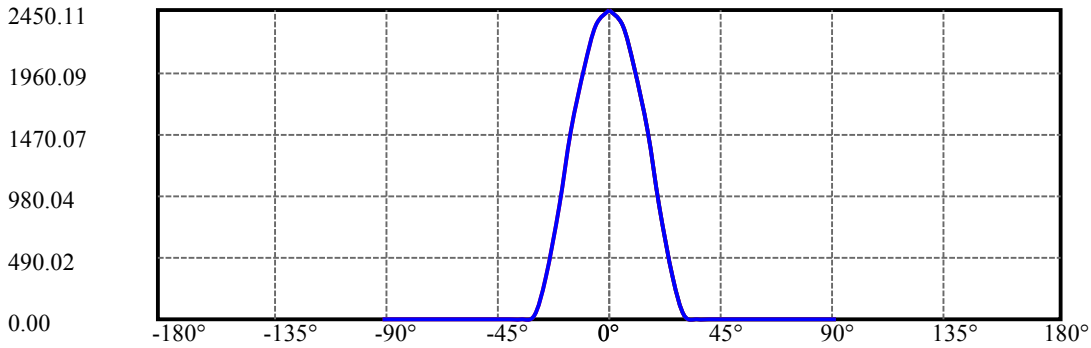
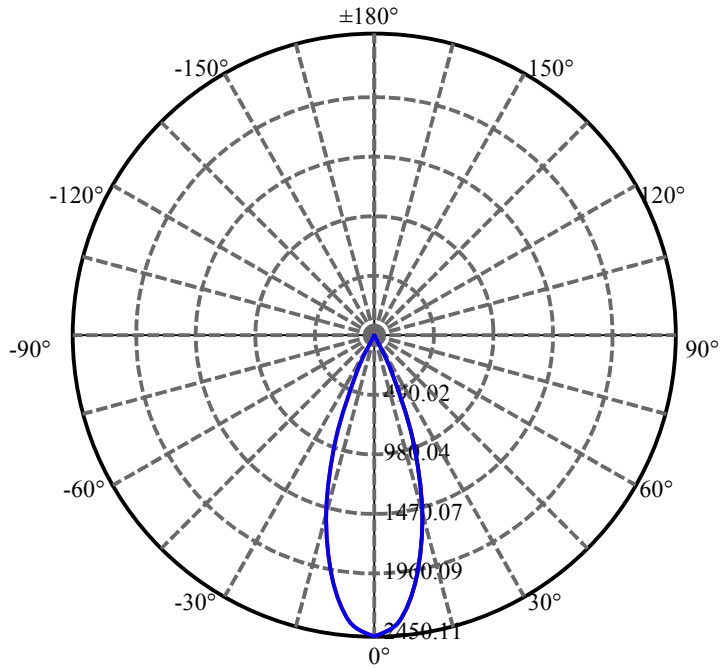
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2450.109	0.000	0	.000%	.000%
5.0	2329.594	57.140	57.14	5.406%	6.994%
10.0	1996.805	154.769	211.909	14.642%	25.939%
15.0	1492.453	206.980	418.889	19.582%	51.275%
20.0	900.555	197.218	616.107	18.658%	75.416%
25.0	334.920	129.579	745.685	12.259%	91.277%
30.0	31.219	46.335	792.02	4.384%	96.949%
35.0	6.370	5.535	797.556	.524%	97.626%
40.0	4.795	1.863	799.419	.176%	97.854%
45.0	4.198	1.665	801.084	.158%	98.058%
50.0	3.902	1.637	802.72	.155%	98.258%
55.0	3.713	1.656	804.376	.157%	98.461%
60.0	3.607	1.692	806.068	.160%	98.668%
65.0	3.509	1.730	807.798	.164%	98.880%
70.0	3.480	1.770	809.568	.167%	99.097%
75.0	3.438	1.808	811.376	.171%	99.318%
80.0	3.431	1.838	813.214	.174%	99.543%
85.0	3.424	1.863	815.077	.176%	99.771%
90.0	3.410	1.871	816.948	.177%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	792.02	74.93%	96.95%
0-40	799.42	75.63%	97.85%
0-60	806.07	76.26%	98.67%
0-90	815.08	77.11%	99.77%
0-120	815.08	77.11%	99.77%
0-180	816.95	77.29%	100.00%
60-90	10.70	1.01%	1.31%
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%
0-21.45	653.56	61.83%	80.00%

ZONAL LUMEN SUMMARY

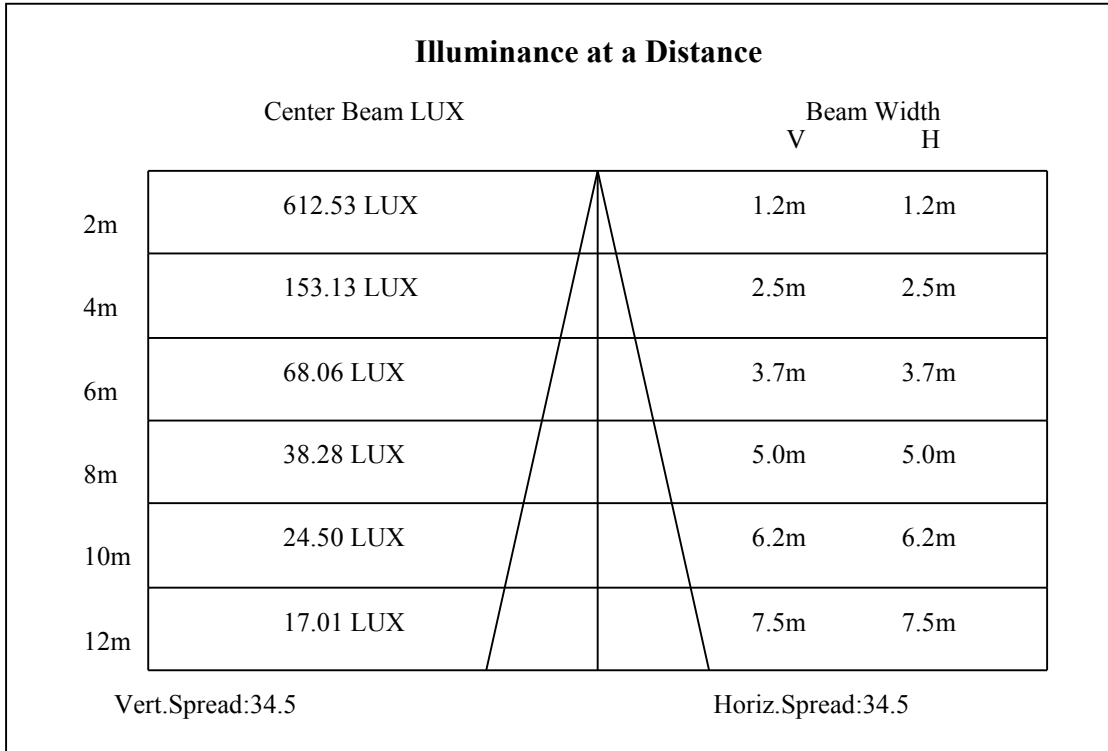
0-10	211.91
10-20	404.20
20-30	175.91
30-40	7.40
40-50	3.30
50-60	3.35
60-70	3.50
70-80	3.65
80-90	1.86
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

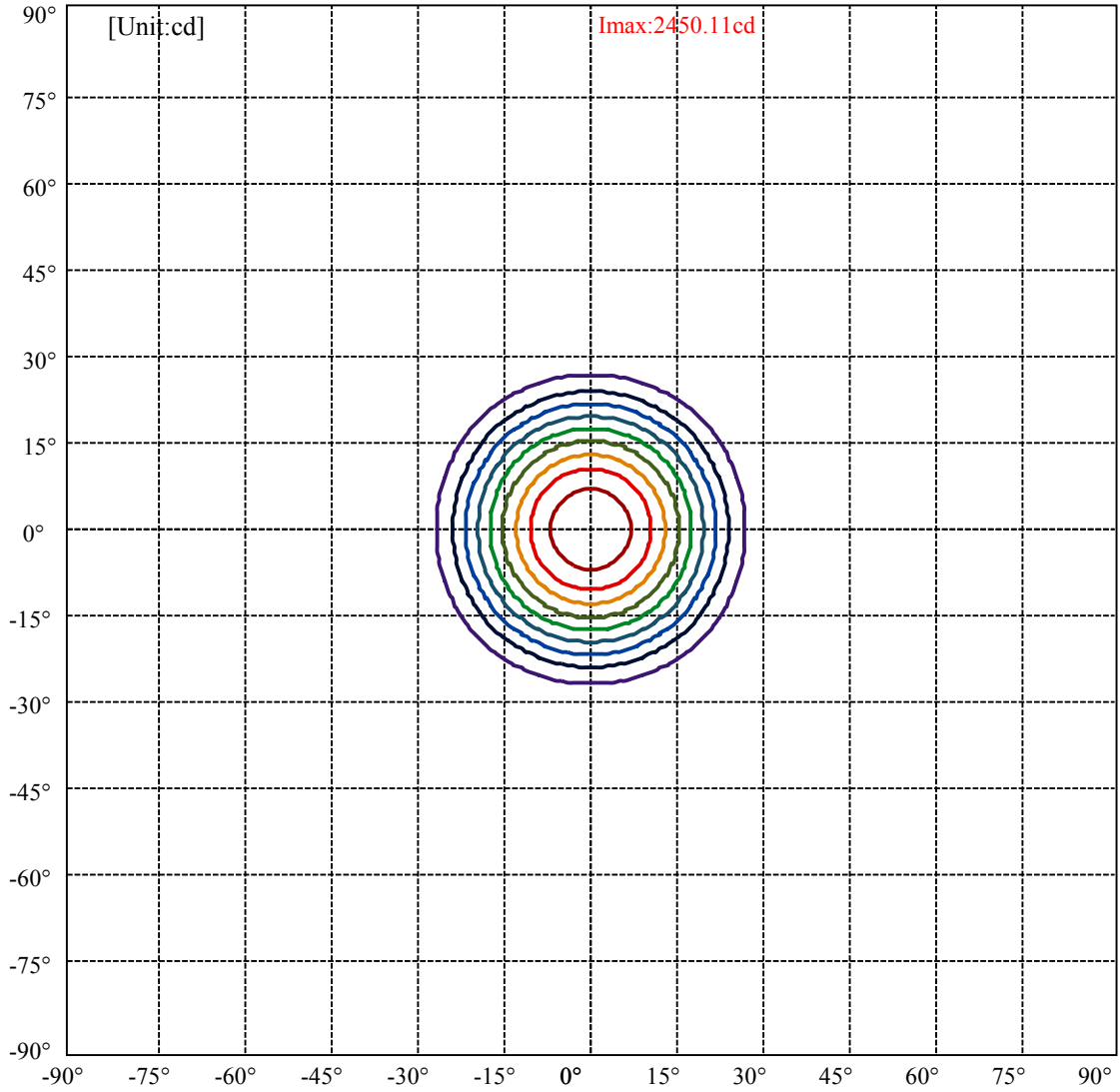


C0(Max): ———
C0/C180: ———
C90/C270: ———

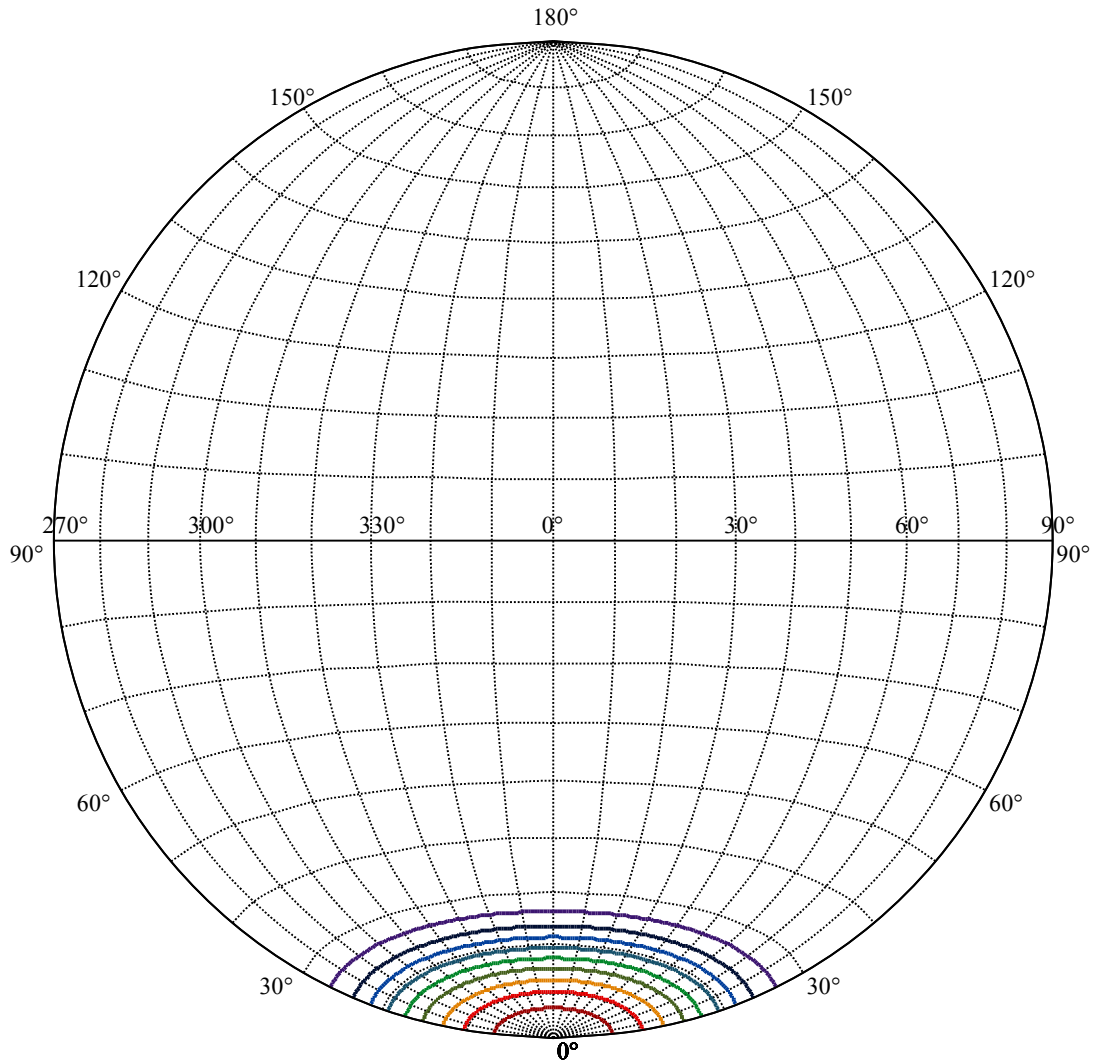
Field angle(10%Imax):C0/180Left:26.5 Right:26.5
:C90/270Left:26.5 Right:26.5

Beam Angle(50%Imax):C0/180Left:17.3 Right:17.3
:C90/270Left:17.3 Right:17.3





(10%Imax) 245.011	—
(20%Imax) 490.022	—
(30%Imax) 735.033	—
(40%Imax) 980.044	—
(50%Imax) 1225.05	—
(60%Imax) 1470.07	—
(70%Imax) 1715.08	—
(80%Imax) 1960.09	—
(90%Imax) 2205.1	—



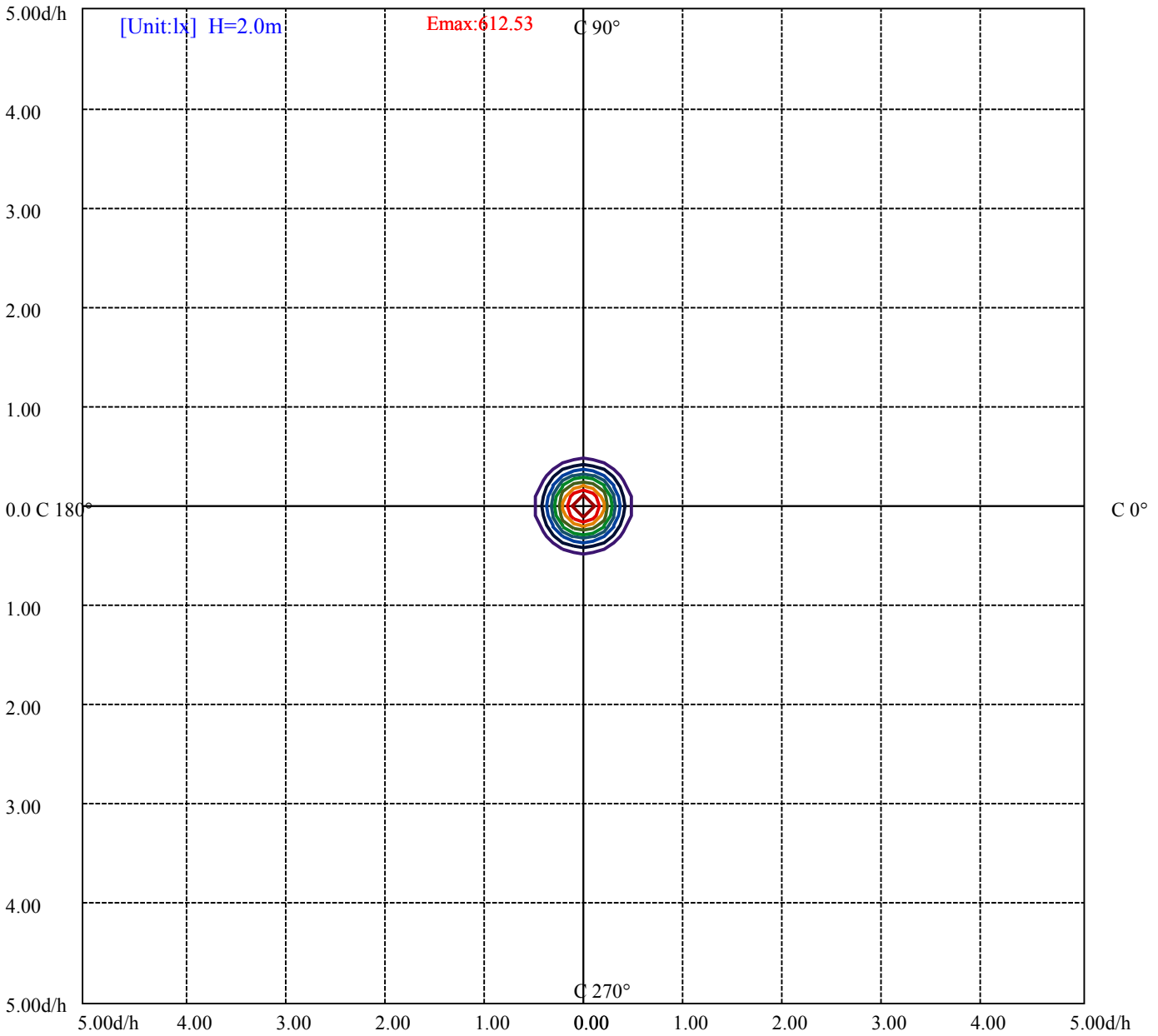
House

[Unit:cd]

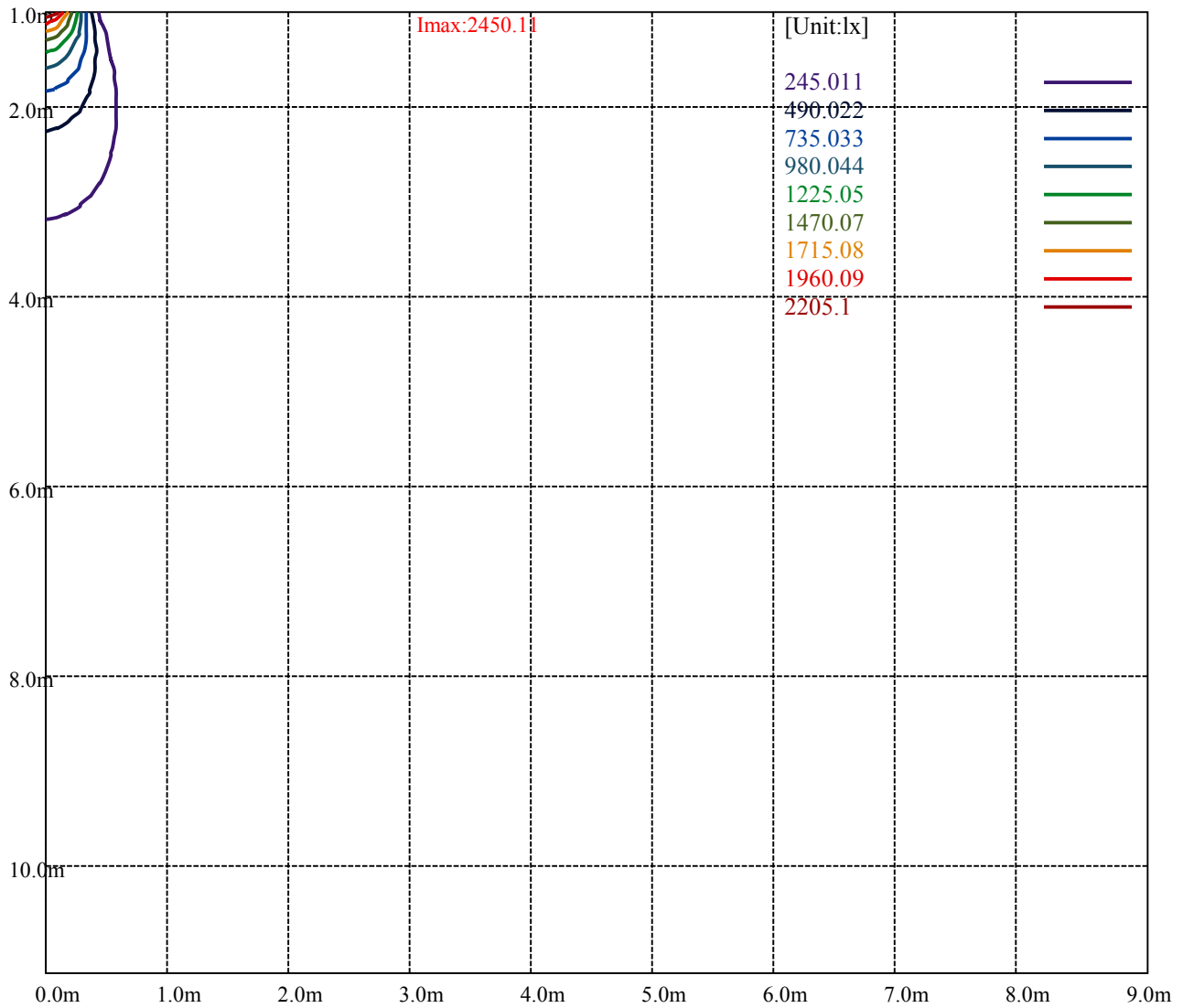
Road

Imax:2450.11

(10%Imax) 245.011	—
(20%Imax) 490.022	—
(30%Imax) 735.033	—
(40%Imax) 980.044	—
(50%Imax) 1225.05	—
(60%Imax) 1470.07	—
(70%Imax) 1715.08	—
(80%Imax) 1960.09	—
(90%Imax) 2205.1	—



(10%Emax) 61.25275	—
(20%Emax) 122.5052	—
(30%Emax) 183.758	—
(40%Emax) 245.0105	—
(50%Emax) 306.2625	—
(60%Emax) 367.515	—
(70%Emax) 428.7675	—
(80%Emax) 490.02	—
(90%Emax) 551.2725	—



Luminance Table

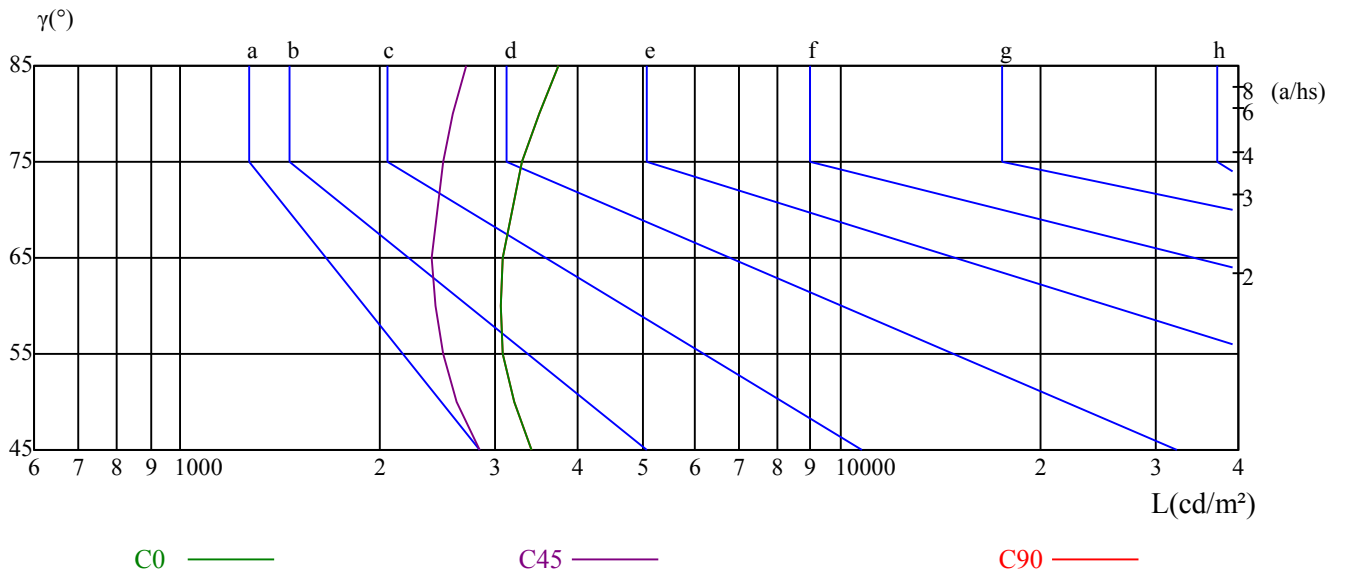
γ	45	50	55	60	65	70	75	80	85
C0	3412	3193	3083	3063	3073	3172	3292	3489	3741
C45	2843	2622	2493	2439	2408	2444	2491	2587	2714
C90	3412	3193	3083	3063	3073	3172	3292	3489	3741

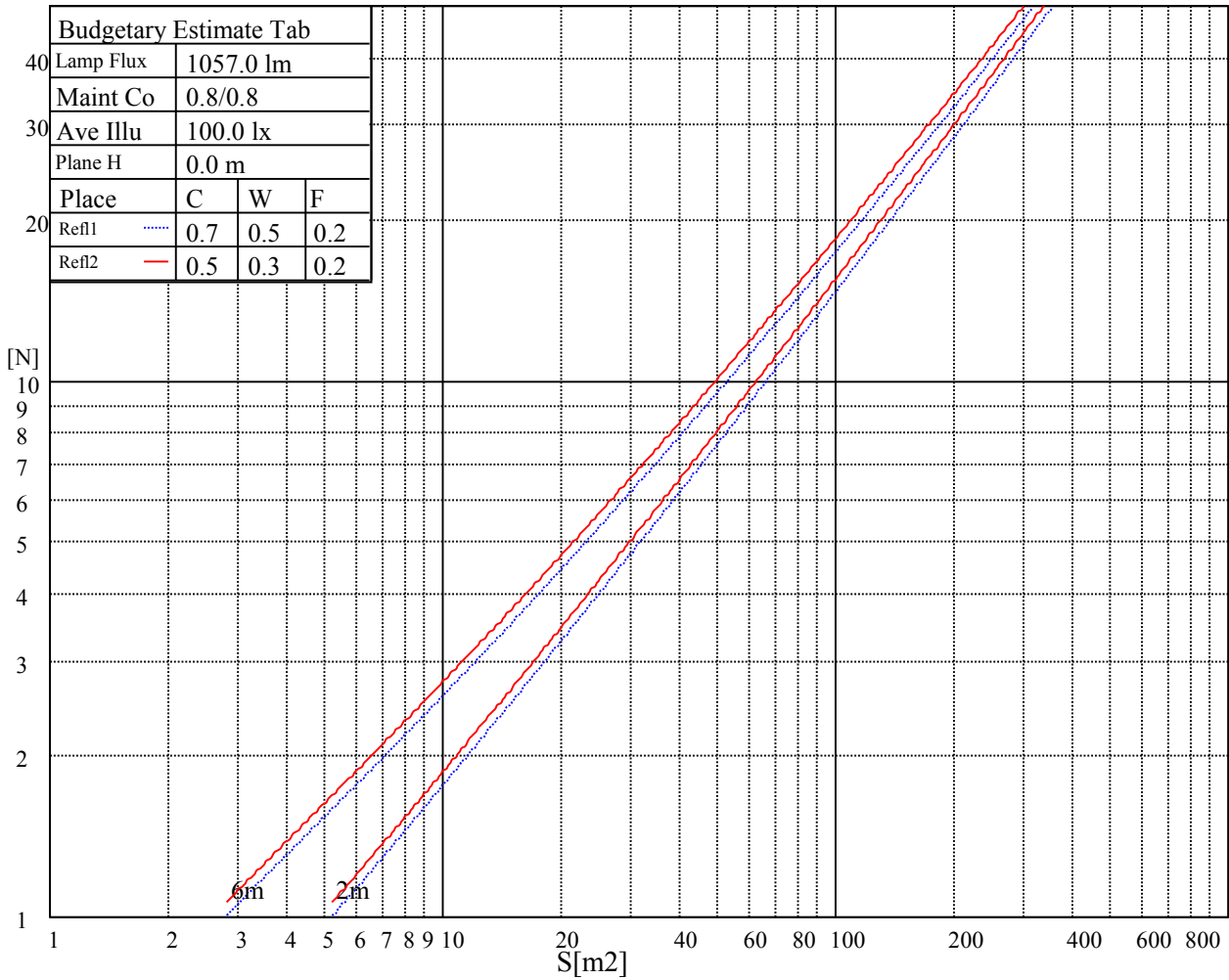
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
9224	9224	9224	14761	14761	14761	43654	43654	43654

Glare Table

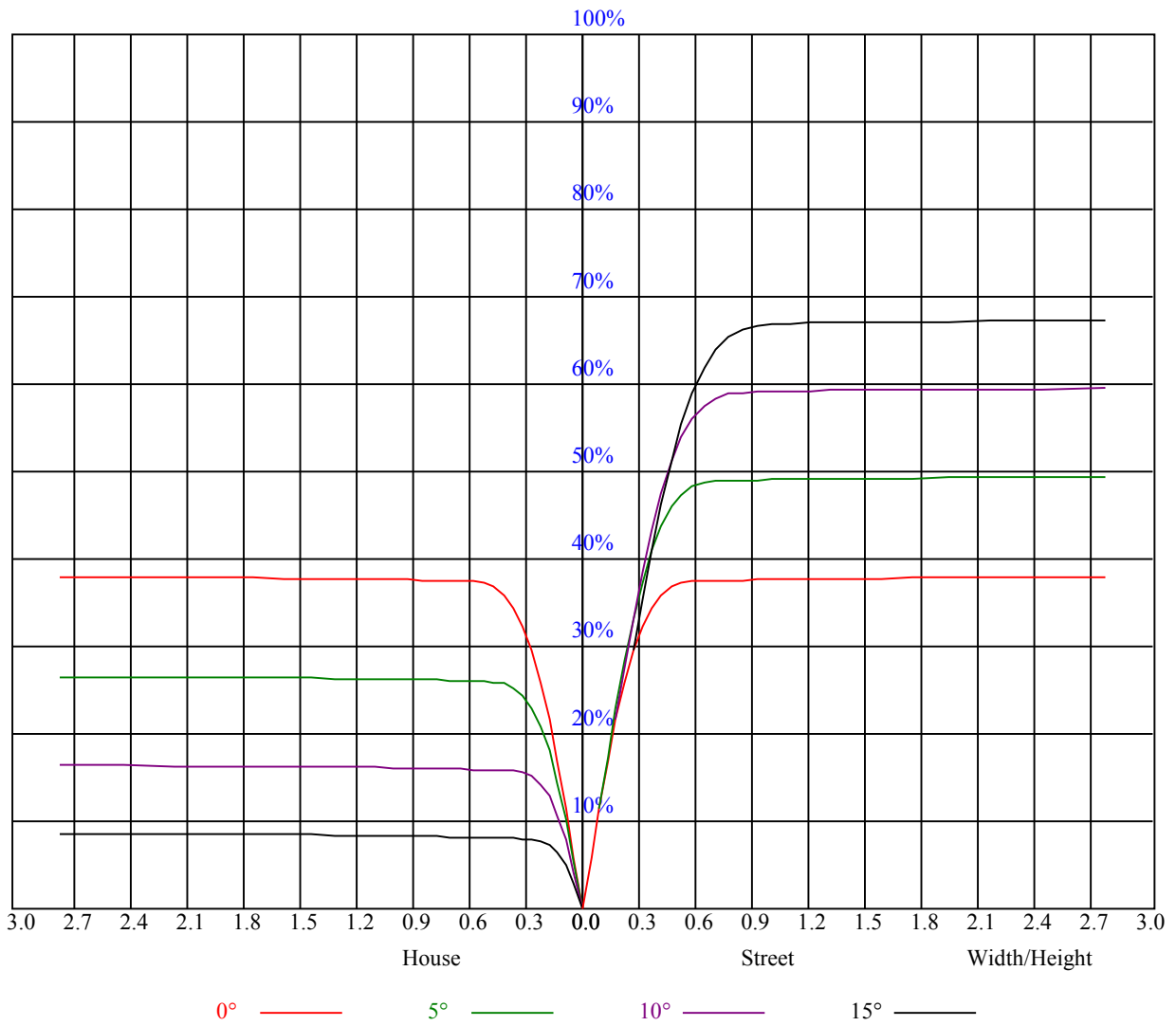
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.92	0.92	0.92	0.90	0.90	0.90	0.86	0.86	0.86	0.82	0.82	0.82	0.79	0.79	0.79	0.77
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	0.80	0.78	0.81	0.79	0.77	0.79	0.77	0.75	0.76	0.75	0.74	0.74	0.73	0.72	0.71
3	0.79	0.76	0.73	0.78	0.75	0.73	0.76	0.73	0.71	0.74	0.72	0.70	0.72	0.71	0.69	0.68
4	0.75	0.72	0.69	0.74	0.71	0.69	0.73	0.70	0.68	0.71	0.69	0.67	0.70	0.68	0.67	0.66
5	0.72	0.69	0.66	0.71	0.68	0.66	0.70	0.67	0.65	0.69	0.67	0.65	0.68	0.66	0.64	0.63
6	0.69	0.66	0.63	0.69	0.66	0.63	0.68	0.65	0.63	0.67	0.64	0.62	0.66	0.64	0.62	0.61
7	0.67	0.63	0.61	0.66	0.63	0.61	0.66	0.63	0.61	0.65	0.62	0.60	0.64	0.62	0.60	0.59
8	0.65	0.61	0.59	0.64	0.61	0.59	0.63	0.61	0.58	0.63	0.60	0.58	0.62	0.60	0.58	0.57
9	0.62	0.59	0.57	0.62	0.59	0.57	0.62	0.59	0.57	0.61	0.58	0.56	0.60	0.58	0.56	0.55
10	0.60	0.57	0.55	0.60	0.57	0.55	0.60	0.57	0.55	0.59	0.56	0.55	0.59	0.56	0.54	0.54



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	2448.56	2342.25	2016.56	1535.06	917.44	334.69	27.00	6.30	4.78
45.0	2452.50	2314.69	1956.38	1445.06	820.13	290.81	15.86	5.79	4.67
90.0	2448.00	2265.75	1896.75	1283.63	766.80	228.94	14.85	5.85	4.73
135.0	2451.38	2359.13	2037.94	1546.88	945.00	388.13	41.23	6.41	4.89
180.0	2448.56	2316.94	1988.44	1450.13	903.66	332.21	28.18	6.13	4.73
225.0	2452.50	2352.94	2048.63	1581.19	974.42	357.13	42.30	6.69	4.78
270.0	2448.00	2385.00	2094.19	1644.75	1044.00	472.50	58.44	7.59	5.06
315.0	2451.38	2300.06	1935.56	1452.94	833.01	274.95	21.88	6.19	4.73
360.0	2448.56	2342.25	2016.56	1535.06	917.44	334.69	27.00	6.30	4.78
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	4.16	3.88	3.66	3.60	3.49	3.49	3.43	3.43	3.49
45.0	4.11	3.88	3.71	3.60	3.49	3.49	3.43	3.43	3.38
90.0	4.16	3.94	3.77	3.60	3.54	3.49	3.43	3.43	3.43
135.0	4.28	3.94	3.77	3.60	3.54	3.49	3.49	3.43	3.43
180.0	4.16	3.88	3.66	3.60	3.49	3.43	3.38	3.38	3.38
225.0	4.28	3.88	3.71	3.60	3.49	3.49	3.43	3.43	3.43
270.0	4.28	3.94	3.77	3.66	3.54	3.49	3.49	3.43	3.43
315.0	4.16	3.88	3.66	3.60	3.49	3.49	3.43	3.49	3.43
360.0	4.16	3.88	3.66	3.60	3.49	3.49	3.43	3.43	3.49
C/γ(°)	90.0								
0.0	3.43								
45.0	3.43								
90.0	3.43								
135.0	3.43								
180.0	3.38								
225.0	3.43								
270.0	3.38								
315.0	3.38								
360.0	3.43								