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## Nata

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LumCAT: 3-1484-E	
Luminaire: 92.76.263.00	
Report No: NATA0100	Voltage(V): 33.0000
Test No: 2017011002	Current(A): 0.5500
LampCAT: brideglux Vero13	Power (W): 18.1500
Lamp flux(lm): 1556.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 76	Width(mm): 76
Phm Type: C	Height(mm): 0

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## Photometric Results

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Lumens(lm): 1404.84  
Efficiency(%): 90.29%  
Lumens(lm)/Power(W): 78.60  
Central intensity(cd): 3867.437  
Maximum intensity(cd): 3867.437  
Angle of maximum intensity: C=0.0  $\gamma$ =0.0  
Beam Angle(50%Imax): [C0/180]Total=32.2  
                                  [C90/270]Total=32.2  
Field angle(10%Imax): [C0/180]Total=64.2  
                                  [C90/270]Total=64.2  
Maximum s/h(1/2): C0\_180=0.54 C90\_270=0.54  
Maximum s/h(1/4): C0\_180=0.50 C90\_270=0.50  
Up flux rate of lamp(%): 0.00%  
Down flux rate of lamp(%): 91.69%  
Up flux rate of LUM(%): - -  
Down flux rate of LUM(%): 100.00%  
CIE Type : Direct lighting  
Output flux ratio in  $\pi$  solid angle : 97.146%

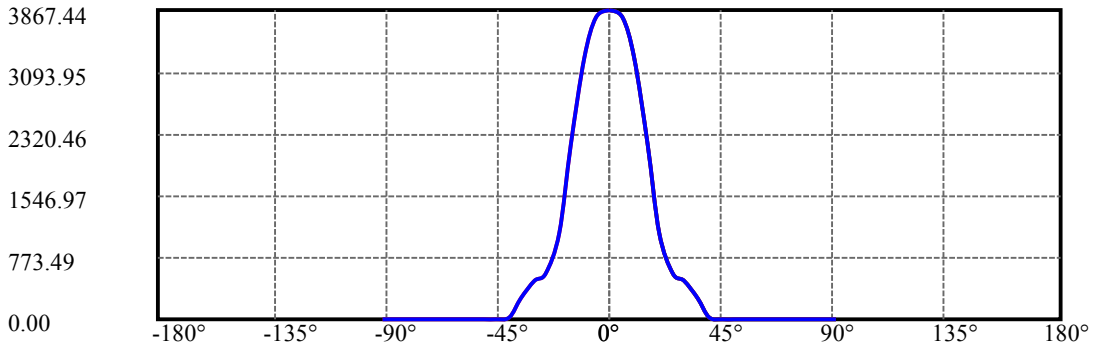
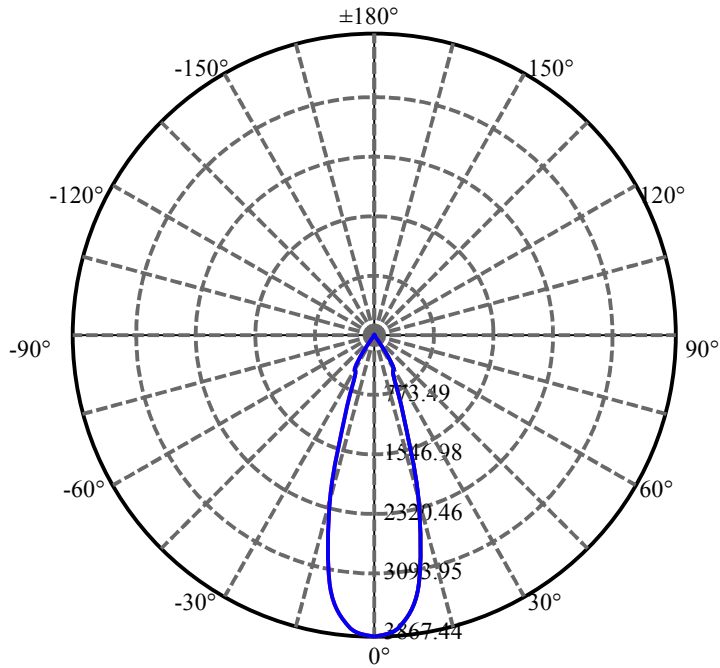
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3867.437	23.128	23.128	1.486%	1.646%
5.0	3768.404	180.029	203.157	11.570%	14.461%
10.0	3270.832	311.328	514.485	20.008%	36.622%
15.0	2180.440	309.336	823.821	19.880%	58.642%
20.0	1069.003	200.410	1024.231	12.880%	72.908%
25.0	570.095	132.064	1156.295	8.487%	82.308%
30.0	478.963	131.269	1287.564	8.436%	91.652%
35.0	258.779	81.360	1368.923	5.229%	97.444%
40.0	14.858	5.235	1374.159	.336%	97.816%
45.0	7.426	2.878	1377.037	.185%	98.021%
50.0	6.875	2.887	1379.924	.186%	98.227%
55.0	6.559	2.945	1382.868	.189%	98.436%
60.0	6.393	3.035	1385.903	.195%	98.652%
65.0	6.318	3.139	1389.042	.202%	98.876%
70.0	6.263	3.226	1392.268	.207%	99.105%
75.0	6.311	3.341	1395.609	.215%	99.343%
80.0	6.972	3.763	1399.372	.242%	99.611%
85.0	6.923	3.781	1403.153	.243%	99.880%
90.0	6.139	1.682	1404.835	.108%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1287.56	82.75%	91.65%
0-40	1374.16	88.31%	97.82%
0-60	1385.90	89.07%	98.65%
0-90	1403.15	90.18%	99.88%
0-120	1403.15	90.18%	99.88%
0-180	1404.84	90.29%	100.00%
60-90	20.28	1.30%	1.44%
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%
0-23.77	1123.87	72.23%	80.00%

ZONAL LUMEN SUMMARY

0-10	514.49
10-20	509.75
20-30	263.33
30-40	86.59
40-50	5.77
50-60	5.98
60-70	6.36
70-80	7.10
80-90	3.78
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



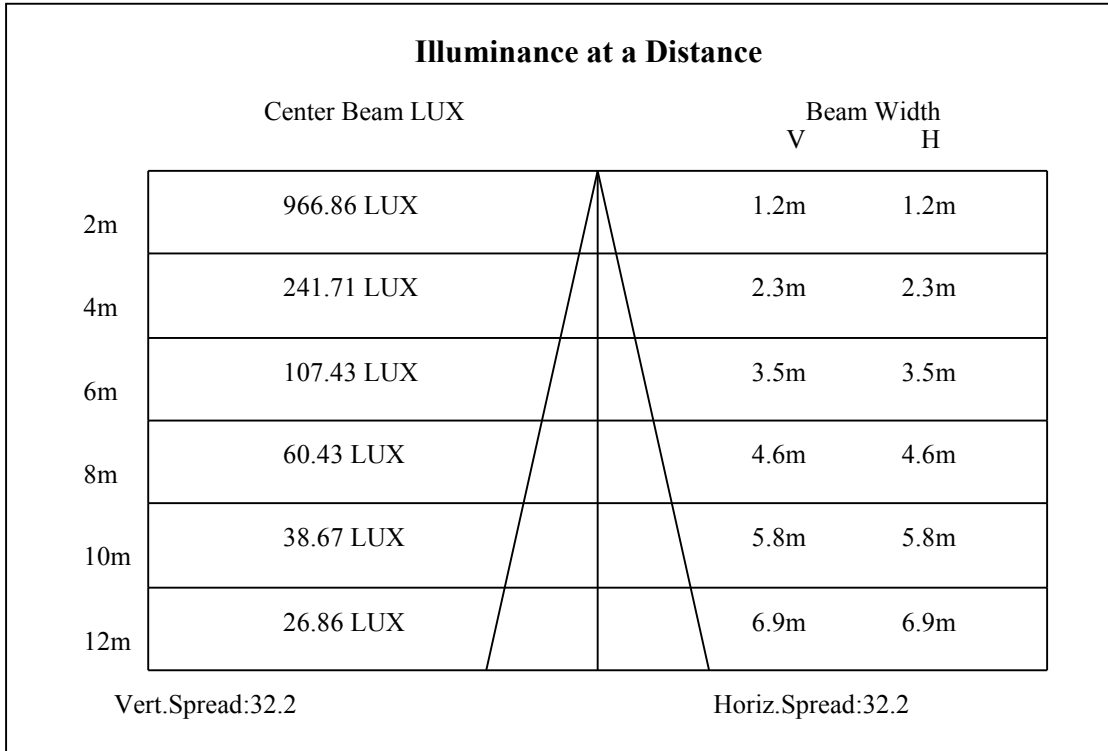
C0(Max): —————

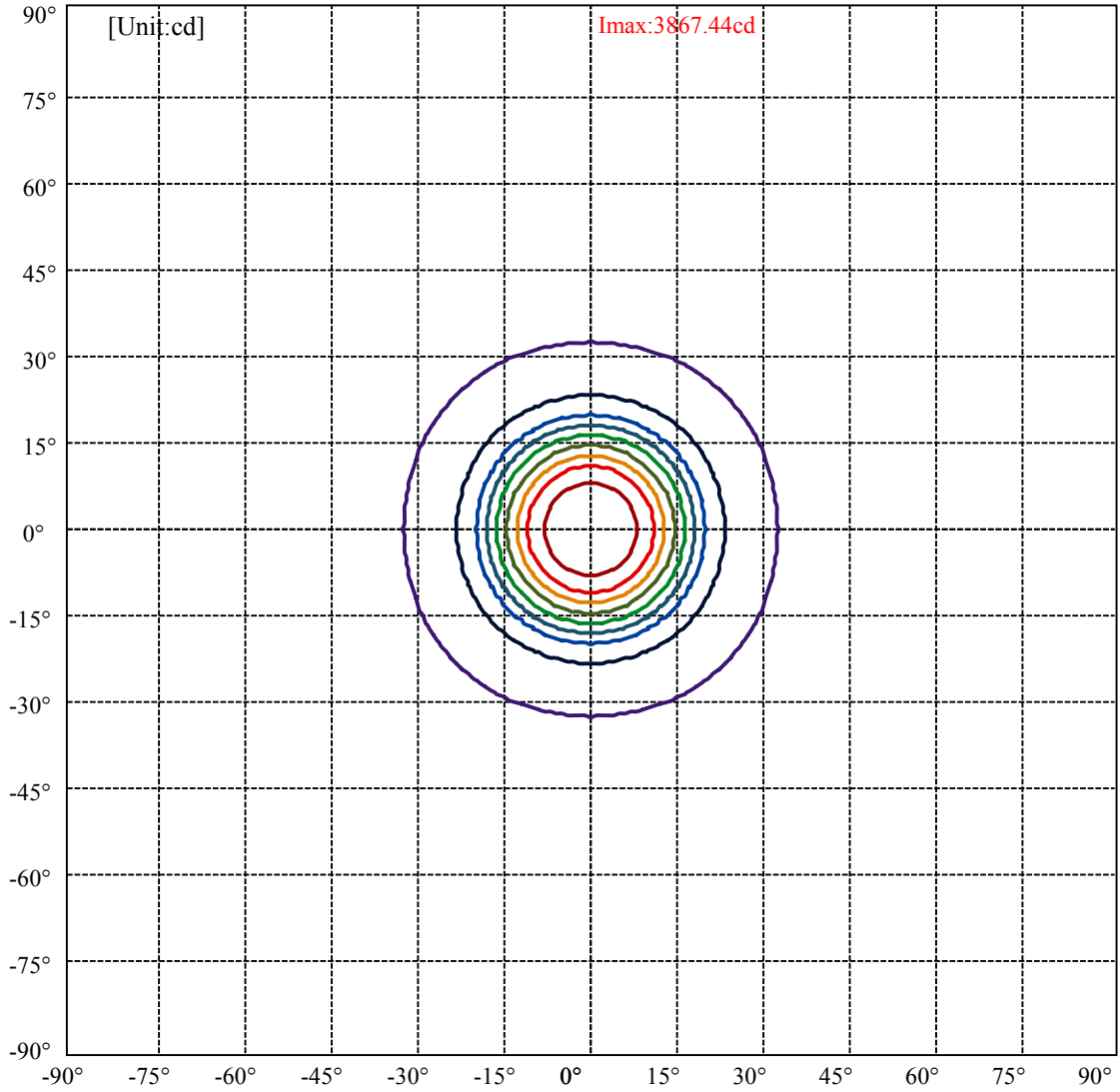
C0/C180: —————

C90/C270: —————

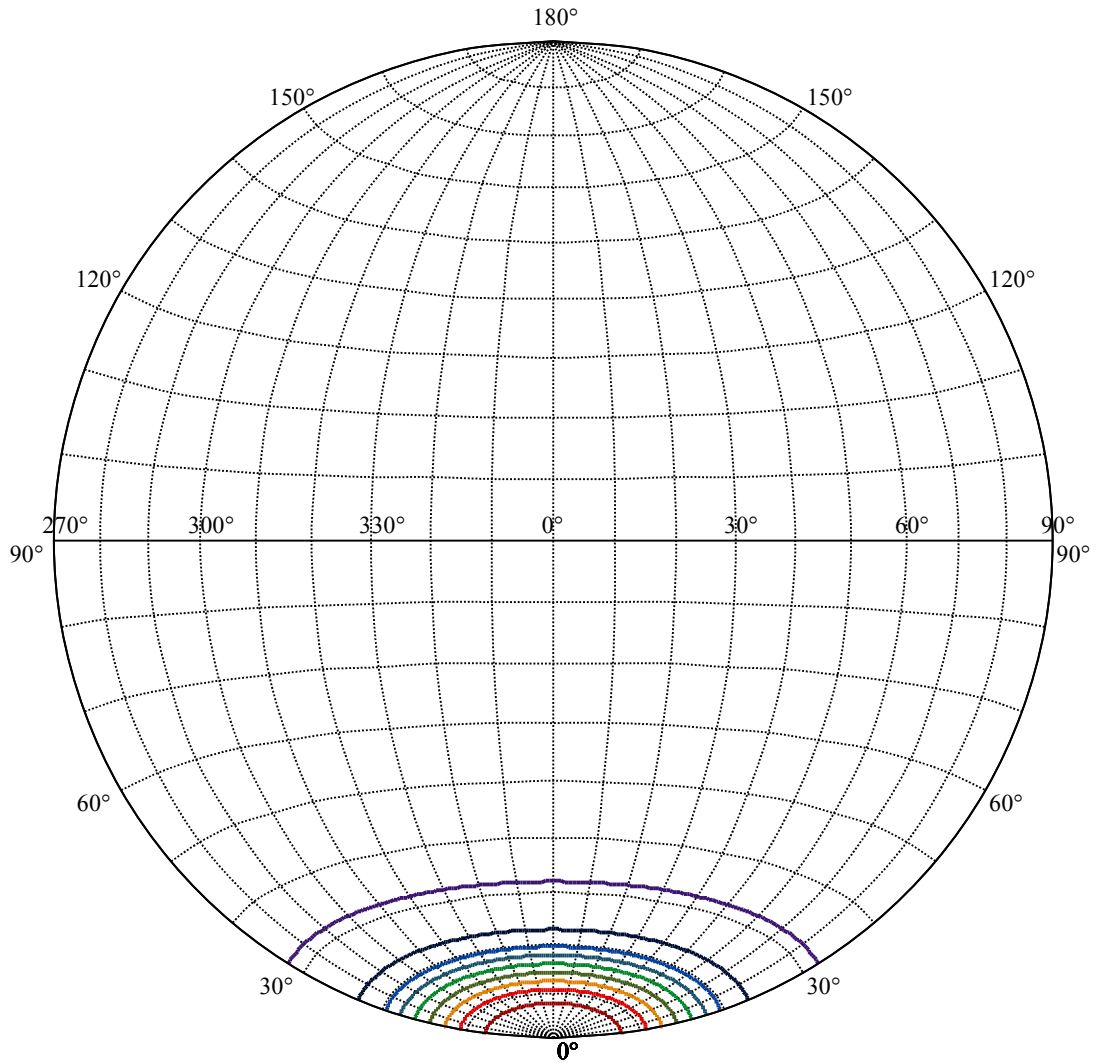
Field angle(10%Imax):C0/180Left:32.1 Right:32.1  
:C90/270Left:32.1 Right:32.1

Beam Angle(50%Imax):C0/180Left:16.1 Right:16.1  
:C90/270Left:16.1 Right:16.1





(10%Imax) 386.744	—
(20%Imax) 773.487	—
(30%Imax) 1160.23	—
(40%Imax) 1546.97	—
(50%Imax) 1933.72	—
(60%Imax) 2320.46	—
(70%Imax) 2707.21	—
(80%Imax) 3093.95	—
(90%Imax) 3480.69	—



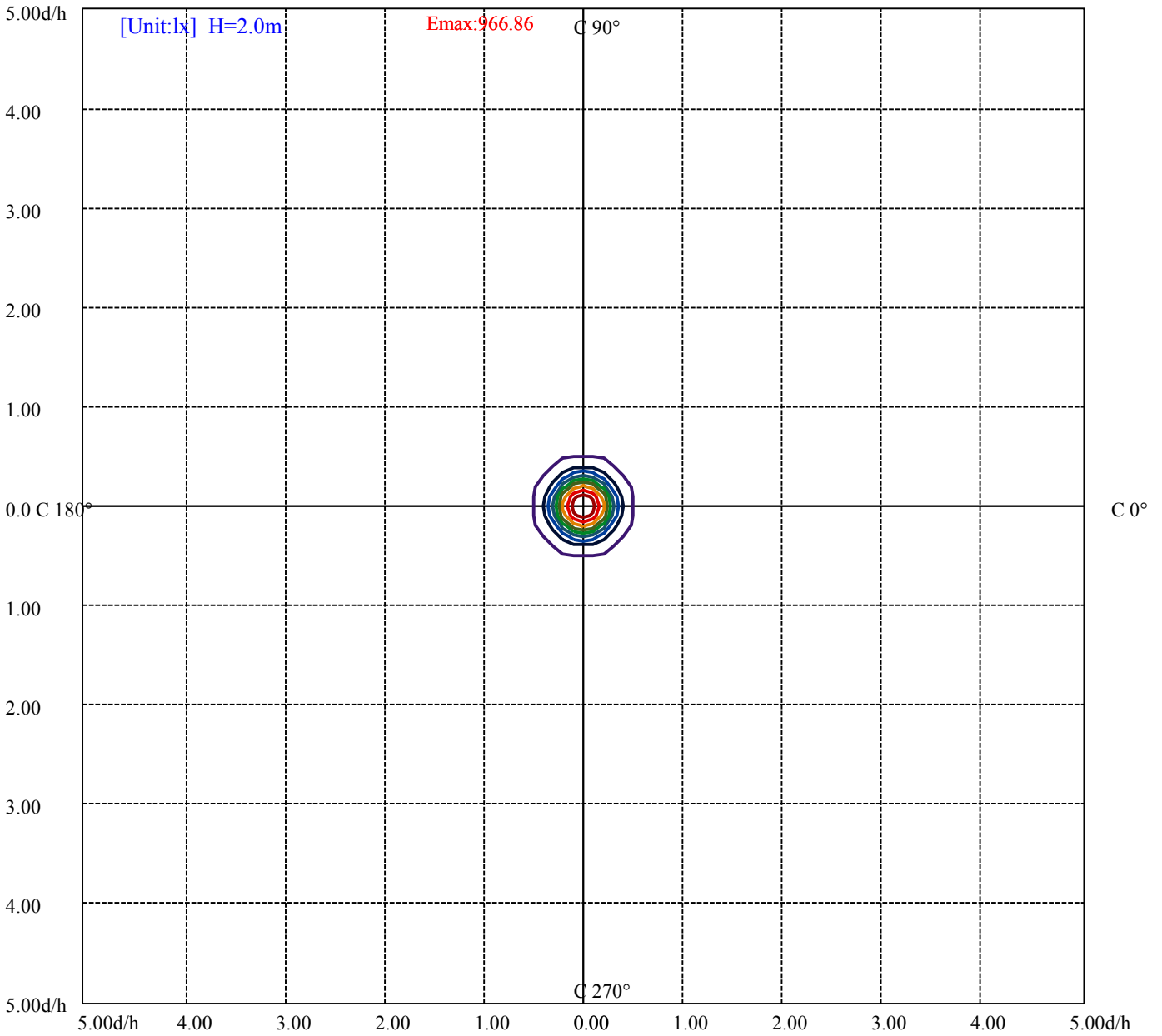
House

[Unit:cd]

Road

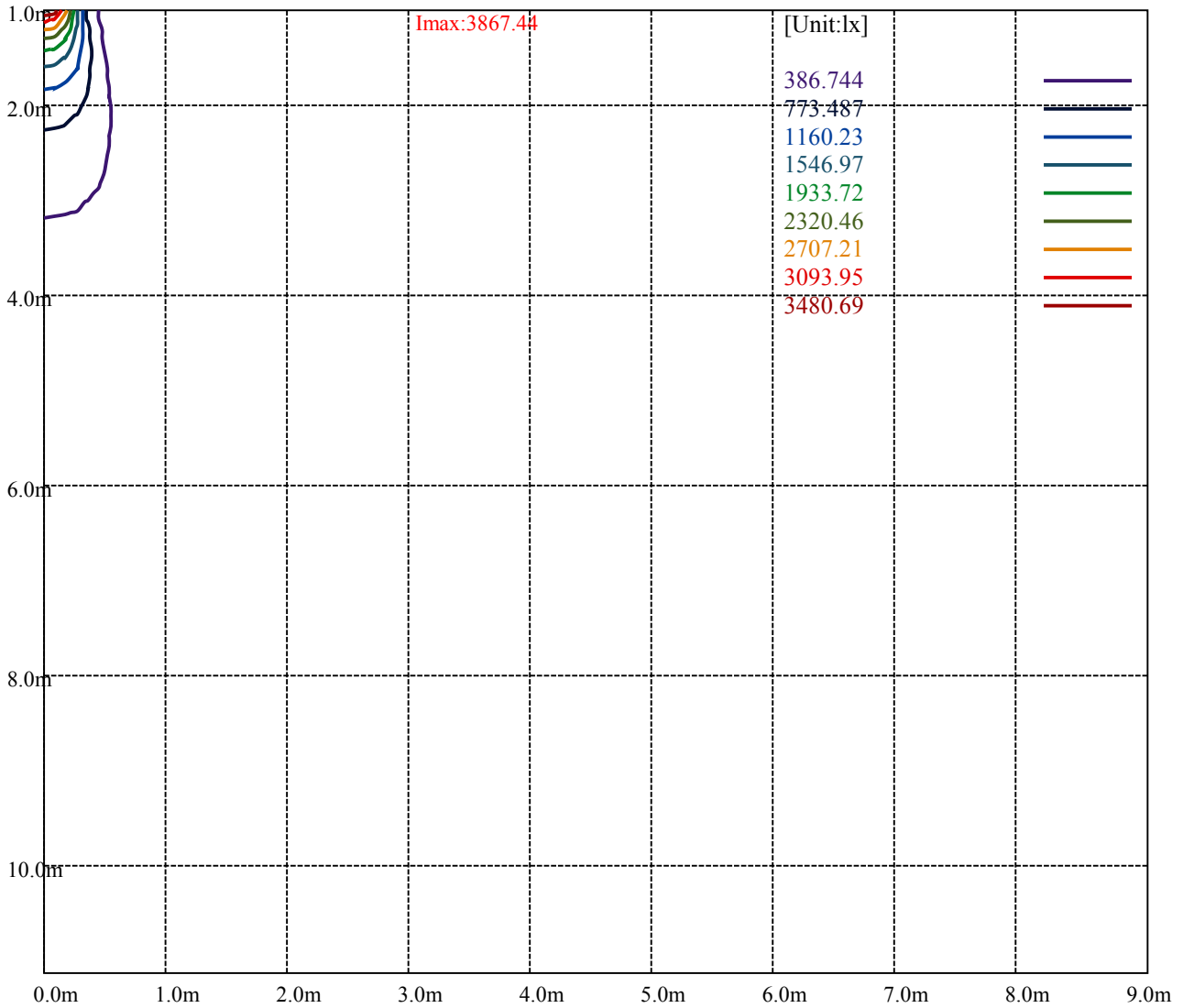
**Imax:3867.44**

(10%Imax) 386.744	—
(20%Imax) 773.487	—
(30%Imax) 1160.23	—
(40%Imax) 1546.97	—
(50%Imax) 1933.72	—
(60%Imax) 2320.46	—
(70%Imax) 2707.21	—
(80%Imax) 3093.95	—
(90%Imax) 3480.69	—



- (10%Emax) 96.68575
- (20%Emax) 193.3717
- (30%Emax) 290.0575
- (40%Emax) 386.7425
- (50%Emax) 483.43
- (60%Emax) 580.115
- (70%Emax) 676.8
- (80%Emax) 773.4875
- (90%Emax) 870.1725





Luminance Table

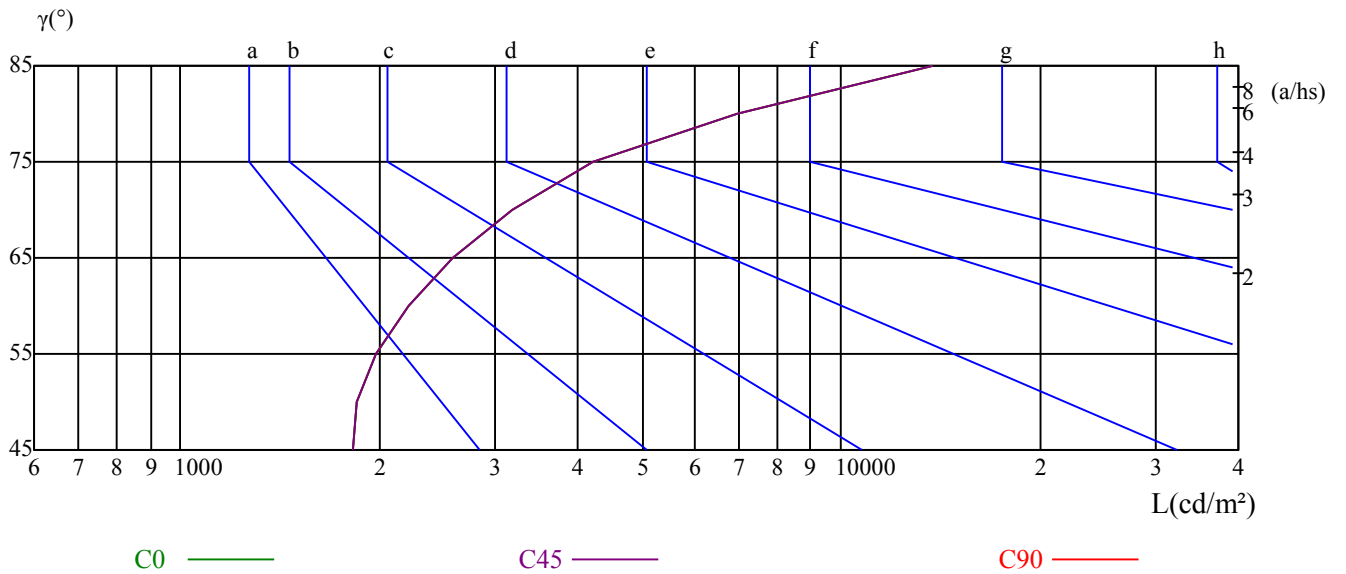
$\gamma$	45	50	55	60	65	70	75	80	85
C0	1818	1852	1980	2214	2588	3170	4221	6951	13753
C45	1818	1852	1980	2214	2588	3170	4221	6951	13753
C90	1818	1852	1980	2214	2588	3170	4221	6951	13753

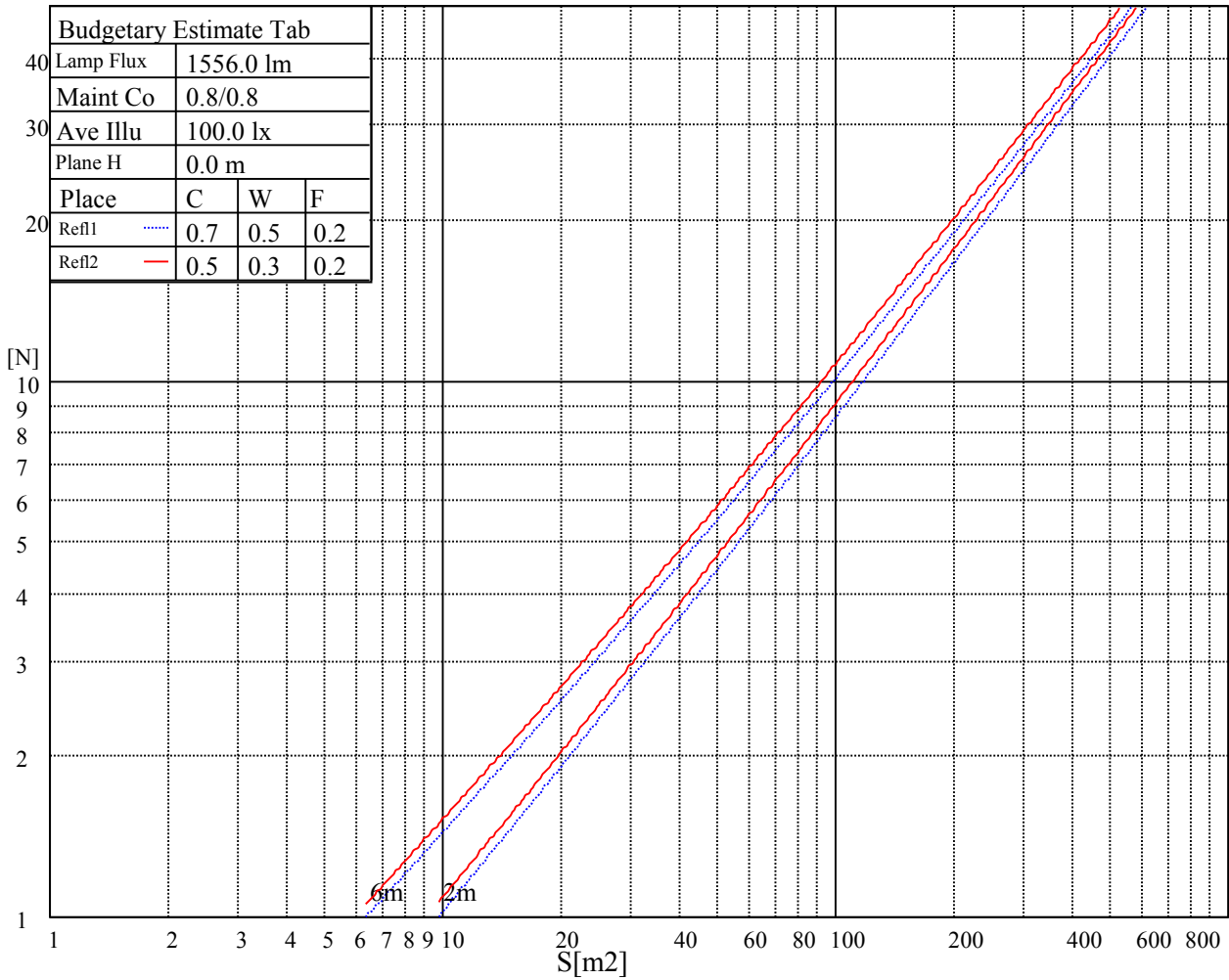
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2588	2588	2588	4221	4221	4221	13753	13753	13753

Glare Table

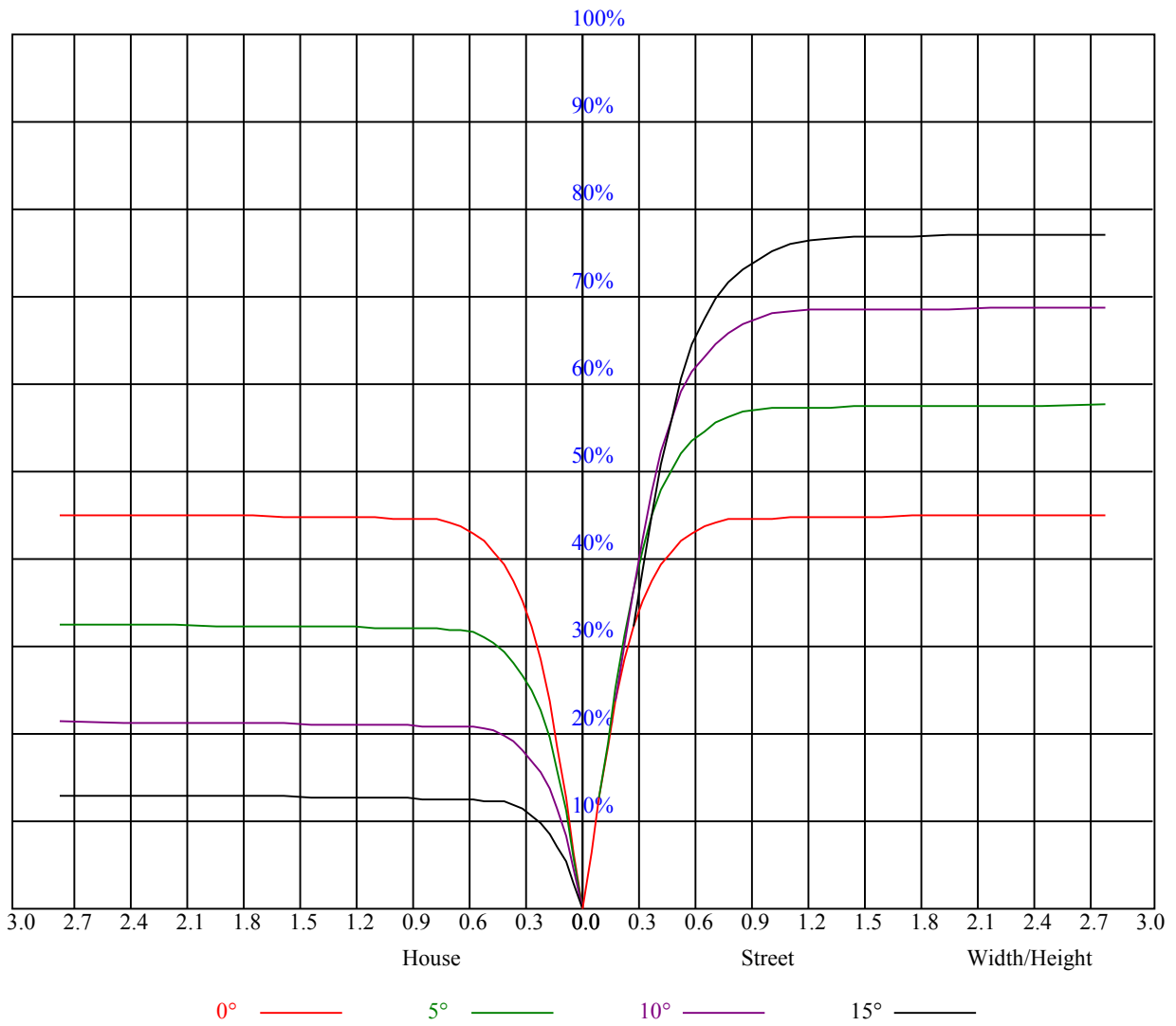
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	1.09	1.09	1.09	1.07	1.07	1.07	1.02	1.02	1.02	0.98	0.98	0.98	0.94	0.94	0.94	0.92
1	1.01	0.99	0.97	0.99	0.97	0.95	0.95	0.94	0.92	0.92	0.91	0.89	0.89	0.88	0.87	0.85
2	0.96	0.93	0.90	0.94	0.91	0.89	0.91	0.89	0.87	0.89	0.87	0.85	0.86	0.85	0.83	0.82
3	0.91	0.88	0.84	0.90	0.87	0.84	0.88	0.85	0.82	0.86	0.83	0.81	0.84	0.82	0.80	0.79
4	0.88	0.83	0.80	0.87	0.83	0.80	0.85	0.81	0.79	0.83	0.80	0.78	0.81	0.79	0.77	0.76
5	0.84	0.80	0.77	0.83	0.79	0.76	0.82	0.78	0.76	0.80	0.77	0.75	0.79	0.77	0.74	0.73
6	0.81	0.77	0.74	0.80	0.76	0.73	0.79	0.76	0.73	0.78	0.75	0.72	0.77	0.74	0.72	0.71
7	0.78	0.74	0.71	0.78	0.74	0.71	0.77	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.70	0.69
8	0.76	0.71	0.69	0.75	0.71	0.68	0.74	0.71	0.68	0.73	0.70	0.68	0.73	0.70	0.68	0.67
9	0.73	0.69	0.66	0.73	0.69	0.66	0.72	0.69	0.66	0.71	0.68	0.66	0.71	0.68	0.66	0.65
10	0.71	0.67	0.64	0.71	0.67	0.64	0.70	0.67	0.64	0.69	0.66	0.64	0.69	0.66	0.64	0.63



Intensity data(cd)

C/ $\gamma$ (°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	3861.11	3777.42	3322.10	2289.25	1134.16	580.85	491.10	289.05	13.82
45.0	3866.61	3782.37	3421.20	2432.94	1238.77	608.92	486.15	316.02	31.77
90.0	3866.61	3711.35	3140.97	2042.59	965.08	540.98	469.36	213.51	8.97
135.0	3875.42	3768.06	3289.07	2245.20	1109.39	572.04	479.54	285.74	12.00
180.0	3861.11	3761.45	3224.10	2071.77	982.26	557.34	471.45	223.25	10.46
225.0	3866.61	3736.13	3086.46	1914.31	894.61	530.91	469.74	186.70	9.41
270.0	3866.61	3826.42	3407.44	2327.23	1162.79	603.42	488.35	297.30	20.70
315.0	3875.42	3784.03	3275.31	2120.22	1064.96	566.31	476.02	258.65	11.73
360.0	3861.11	3777.42	3322.10	2289.25	1134.16	580.85	491.10	289.05	13.82
C/ $\gamma$ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	7.71	7.05	6.66	6.50	6.39	6.33	6.28	6.33	6.55
45.0	7.43	6.88	6.55	6.39	6.28	6.17	6.22	6.66	6.55
90.0	7.21	6.72	6.50	6.33	6.28	6.28	6.55	7.60	6.94
135.0	7.38	6.88	6.61	6.44	6.33	6.28	6.28	6.39	6.44
180.0	7.43	6.94	6.61	6.44	6.39	6.33	6.39	7.98	7.16
225.0	7.21	6.72	6.39	6.28	6.28	6.17	6.22	7.10	7.60
270.0	7.54	6.88	6.55	6.39	6.33	6.28	6.22	6.50	7.65
315.0	7.49	6.94	6.61	6.39	6.28	6.28	6.33	7.21	6.50
360.0	7.71	7.05	6.66	6.50	6.39	6.33	6.28	6.33	6.55
C/ $\gamma$ (°)	90.0								
0.0	6.22								
45.0	6.11								
90.0	6.11								
135.0	6.17								
180.0	6.17								
225.0	6.06								
270.0	6.11								
315.0	6.17								
360.0	6.22								