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## Nata

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LumCAT: 3-1484-E	
Luminaire: 92.76.263.00	
Report No: NATA0100	Voltage(V): 90.0000
Test No:	Current(A): 0.9500
LampCAT: brideglux VERO 18	Power (W): 28.5000
Lamp flux(lm): 3743.0	PF: 0.0000
Number of Lamps: 1	Ballast type:
Length(mm): 76	Width(mm): 76
Phm Type: C	Height(mm): 0

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## Photometric Results

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Lumens(lm): 3381.98  
Efficiency(%): 90.35%  
Lumens(lm)/Power(W): 120.30  
Central intensity(cd): 8339.117  
Maximum intensity(cd): 8339.117  
Angle of maximum intensity: C=0.0  $\gamma$ =0.0  
Beam Angle(50%Imax): [C0/180]Total=34.2  
                                  [C90/270]Total=34.2  
Field angle(10%Imax): [C0/180]Total=65.3  
                                  [C90/270]Total=65.3  
Maximum s/h(1/2): C0\_180=0.57 C90\_270=0.57  
Maximum s/h(1/4): C0\_180=0.56 C90\_270=0.56  
Up flux rate of lamp(%): 0.00%  
Down flux rate of lamp(%): 91.60%  
Up flux rate of LUM(%): - -  
Down flux rate of LUM(%): 100.00%  
CIE Type : Direct lighting  
Output flux ratio in  $\pi$  solid angle : 97.139%

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Equipment: gms1980  
Temperature(°C): 25.0

Date: 2017/1/19  
Humidity(%): 60.0%

Operator: NT03  
Distance(m): 7.42

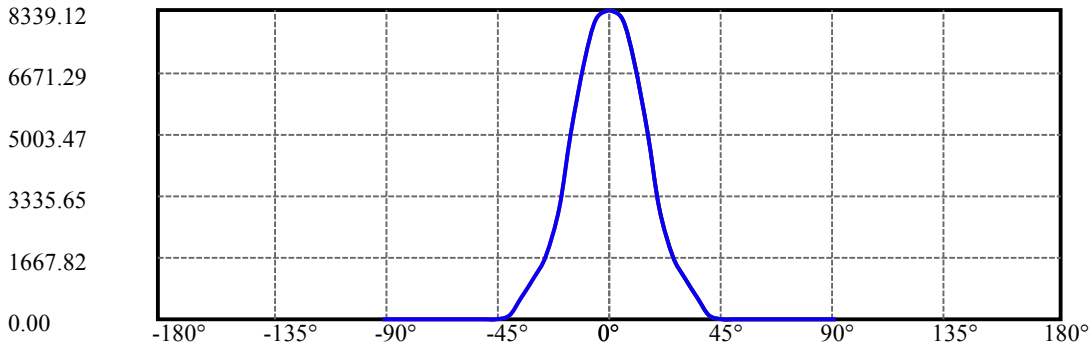
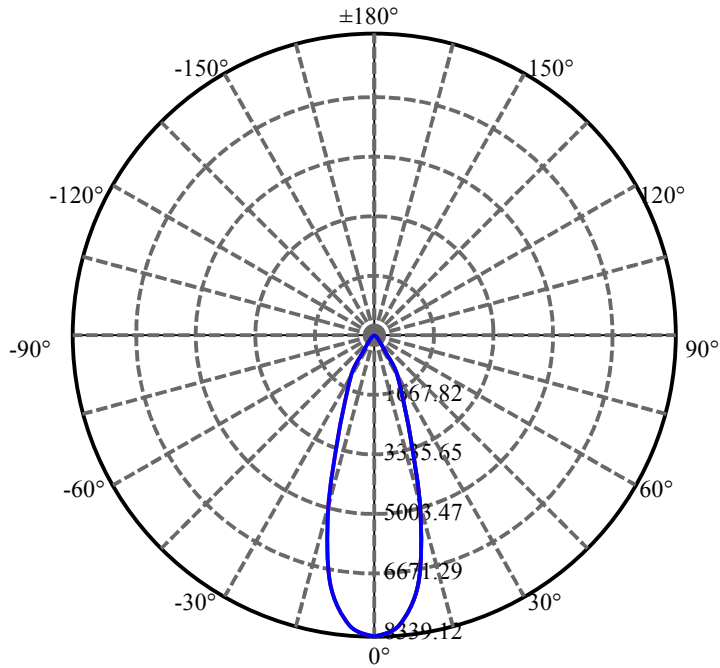
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	8339.118	49.870	49.87	1.332%	1.475%
5.0	8054.751	384.802	434.672	10.281%	12.853%
10.0	6944.539	661.002	1095.674	17.660%	32.397%
15.0	5003.457	709.832	1805.507	18.964%	53.386%
20.0	3024.110	566.942	2372.449	15.147%	70.150%
25.0	1702.619	394.417	2766.865	10.537%	81.812%
30.0	1123.811	308.001	3074.867	8.229%	90.919%
35.0	573.942	180.447	3255.314	4.821%	96.255%
40.0	127.641	44.973	3300.286	1.202%	97.584%
45.0	19.222	7.450	3307.736	.199%	97.805%
50.0	17.474	7.337	3315.073	.196%	98.022%
55.0	16.682	7.490	3322.564	.200%	98.243%
60.0	16.778	7.965	3330.529	.213%	98.479%
65.0	17.425	8.657	3339.185	.231%	98.735%
70.0	17.990	9.266	3348.451	.248%	99.009%
75.0	18.313	9.696	3358.147	.259%	99.295%
80.0	18.850	10.175	3368.323	.272%	99.596%
85.0	17.377	9.489	3377.812	.254%	99.877%
90.0	15.209	4.168	3381.98	.111%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	3074.87	82.15%	90.92%
0-40	3300.29	88.17%	97.58%
0-60	3330.53	88.98%	98.48%
0-90	3377.81	90.24%	99.88%
0-120	3377.81	90.24%	99.88%
0-180	3381.98	90.35%	100.00%
60-90	55.25	1.48%	1.63%
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%
0-24.22	2705.58	72.28%	80.00%

ZONAL LUMEN SUMMARY

0-10	1095.67
10-20	1276.77
20-30	702.42
30-40	225.42
40-50	14.79
50-60	15.46
60-70	17.92
70-80	19.87
80-90	9.49
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: —————

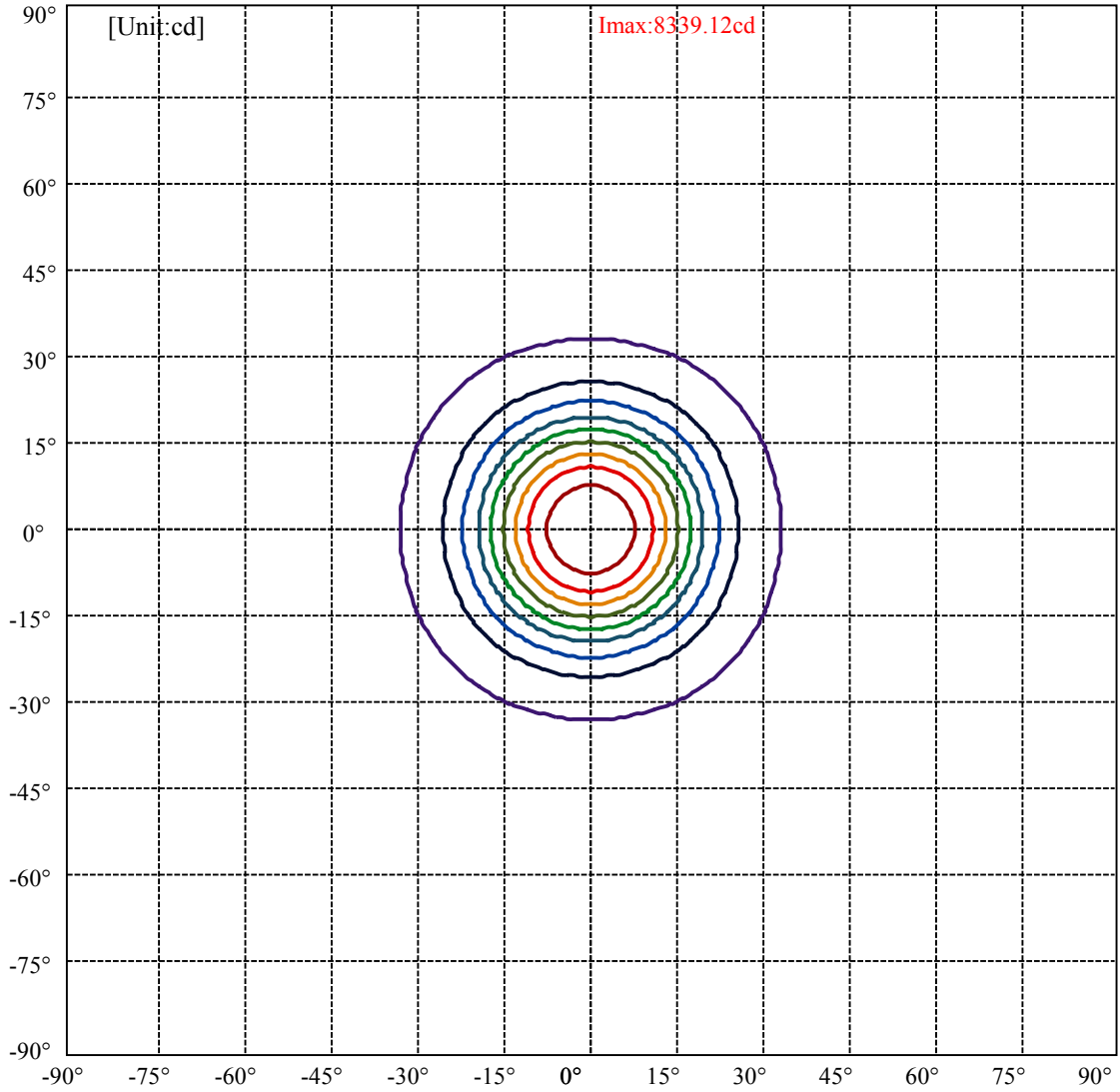
Field angle(10%Imax):C0/180Left:32.6 Right:32.6

:C90/270Left:32.6 Right:32.6

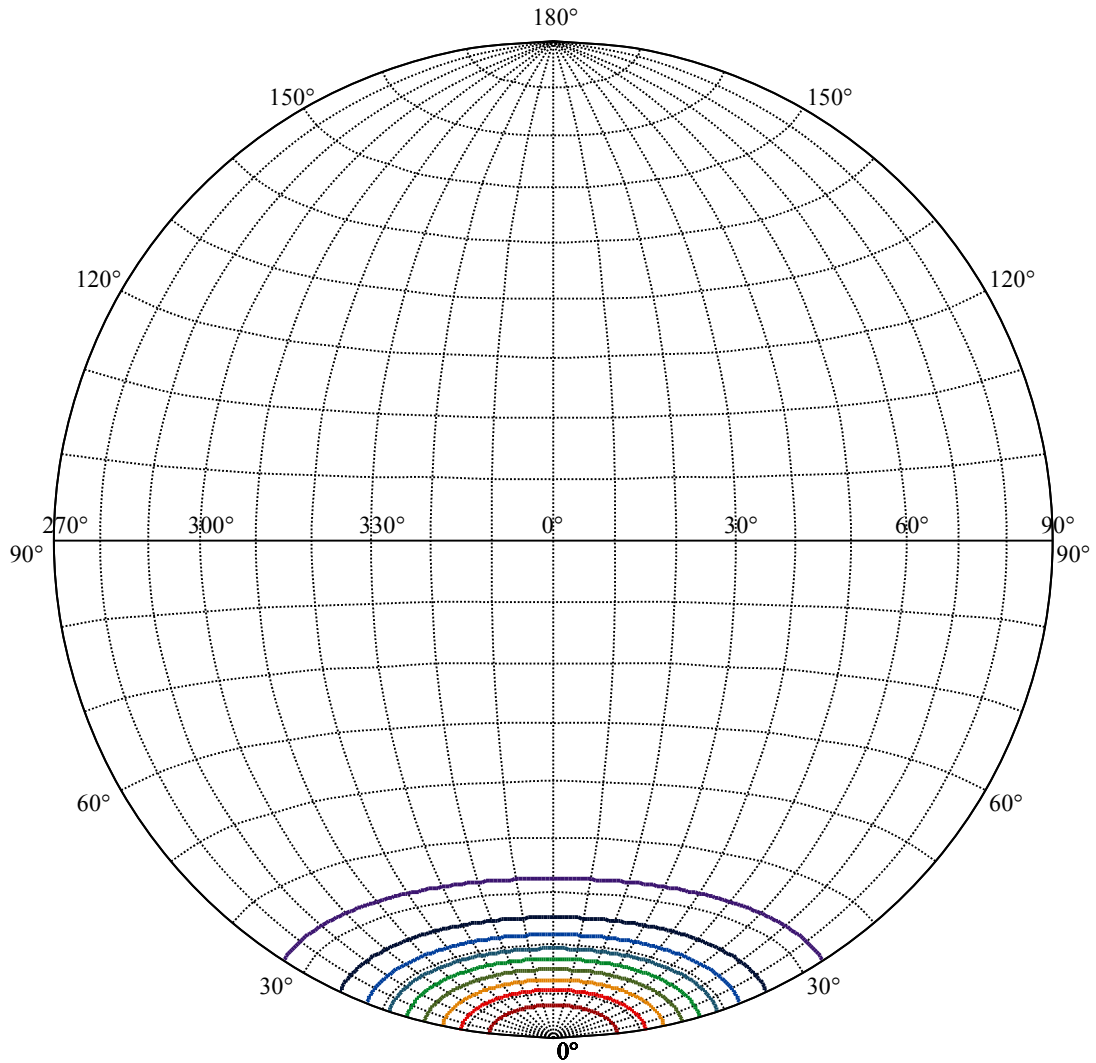
Beam Angle(50%Imax):C0/180Left:17.1 Right:17.1

:C90/270Left:17.1 Right:17.1





(10%Imax) 833.912	—
(20%Imax) 1667.82	—
(30%Imax) 2501.74	—
(40%Imax) 3335.65	—
(50%Imax) 4169.56	—
(60%Imax) 5003.47	—
(70%Imax) 5837.38	—
(80%Imax) 6671.29	—
(90%Imax) 7505.21	—



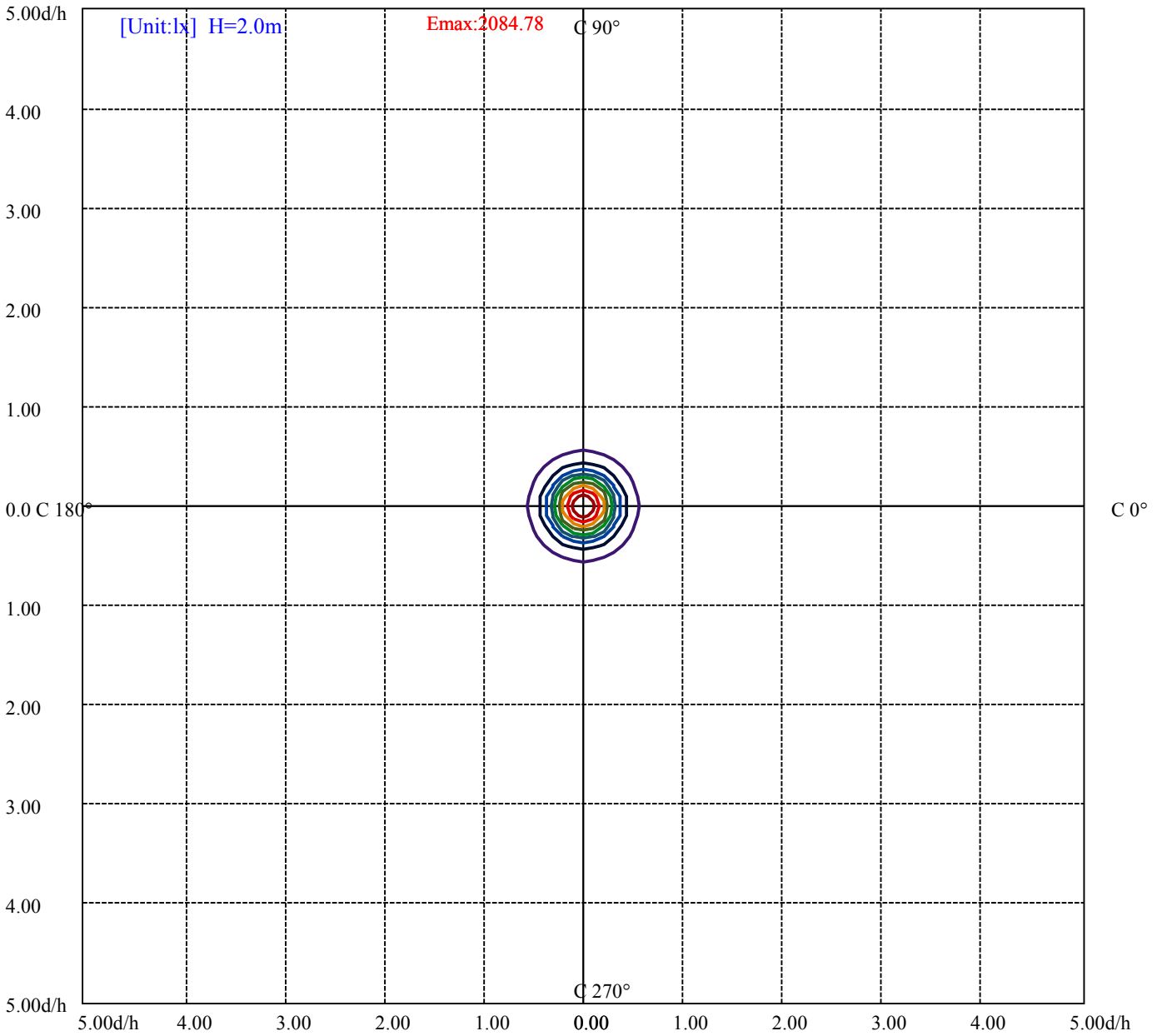
House

[Unit:cd]

Road

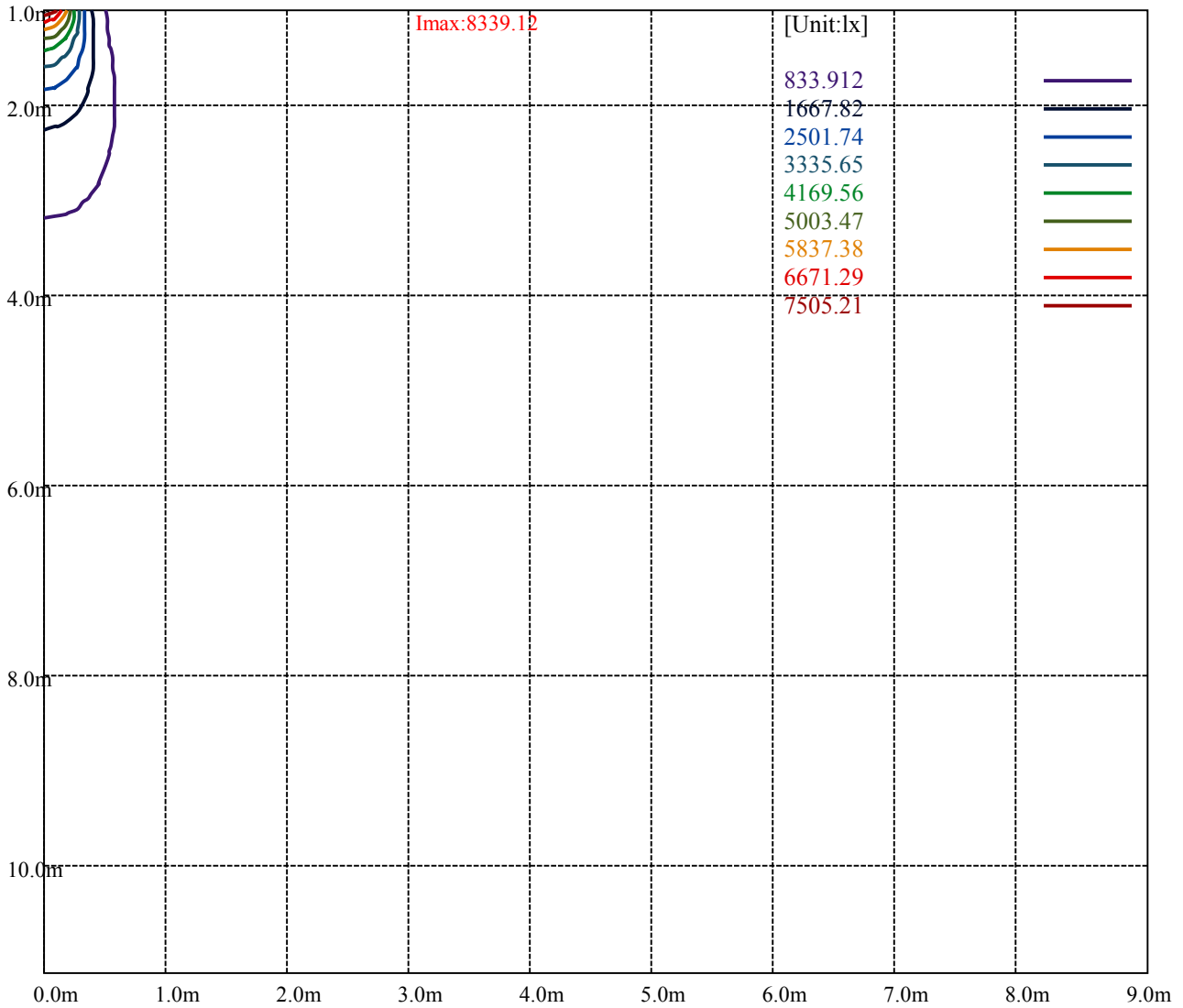
**Imax:8339.12**

(10%Imax) 833.912	—
(20%Imax) 1667.82	—
(30%Imax) 2501.74	—
(40%Imax) 3335.65	—
(50%Imax) 4169.56	—
(60%Imax) 5003.47	—
(70%Imax) 5837.38	—
(80%Imax) 6671.29	—
(90%Imax) 7505.21	—



- (10%Emax) 208.4778
- (20%Emax) 416.955
- (30%Emax) 625.4325
- (40%Emax) 833.91
- (50%Emax) 1042.387
- (60%Emax) 1250.865
- (70%Emax) 1459.345
- (80%Emax) 1667.823
- (90%Emax) 1876.3





Luminance Table

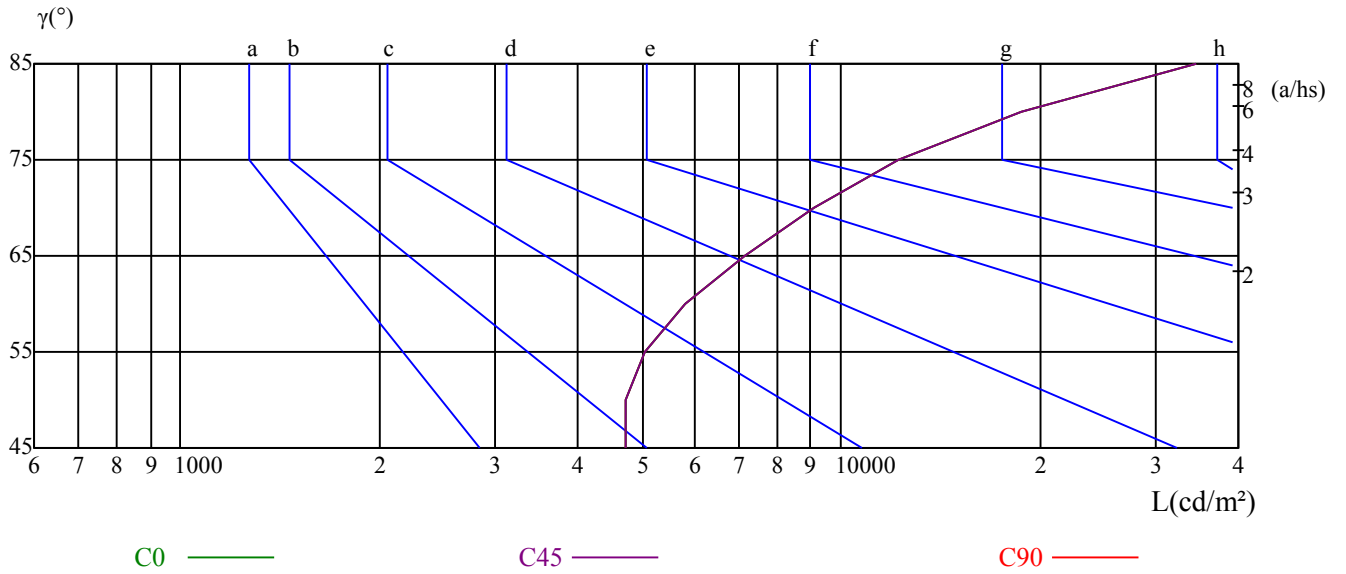
$\gamma$	45	50	55	60	65	70	75	80	85
C0	4706	4706	5035	5810	7138	9106	12250	18794	34519
C45	4706	4706	5035	5810	7138	9106	12250	18794	34519
C90	4706	4706	5035	5810	7138	9106	12250	18794	34519

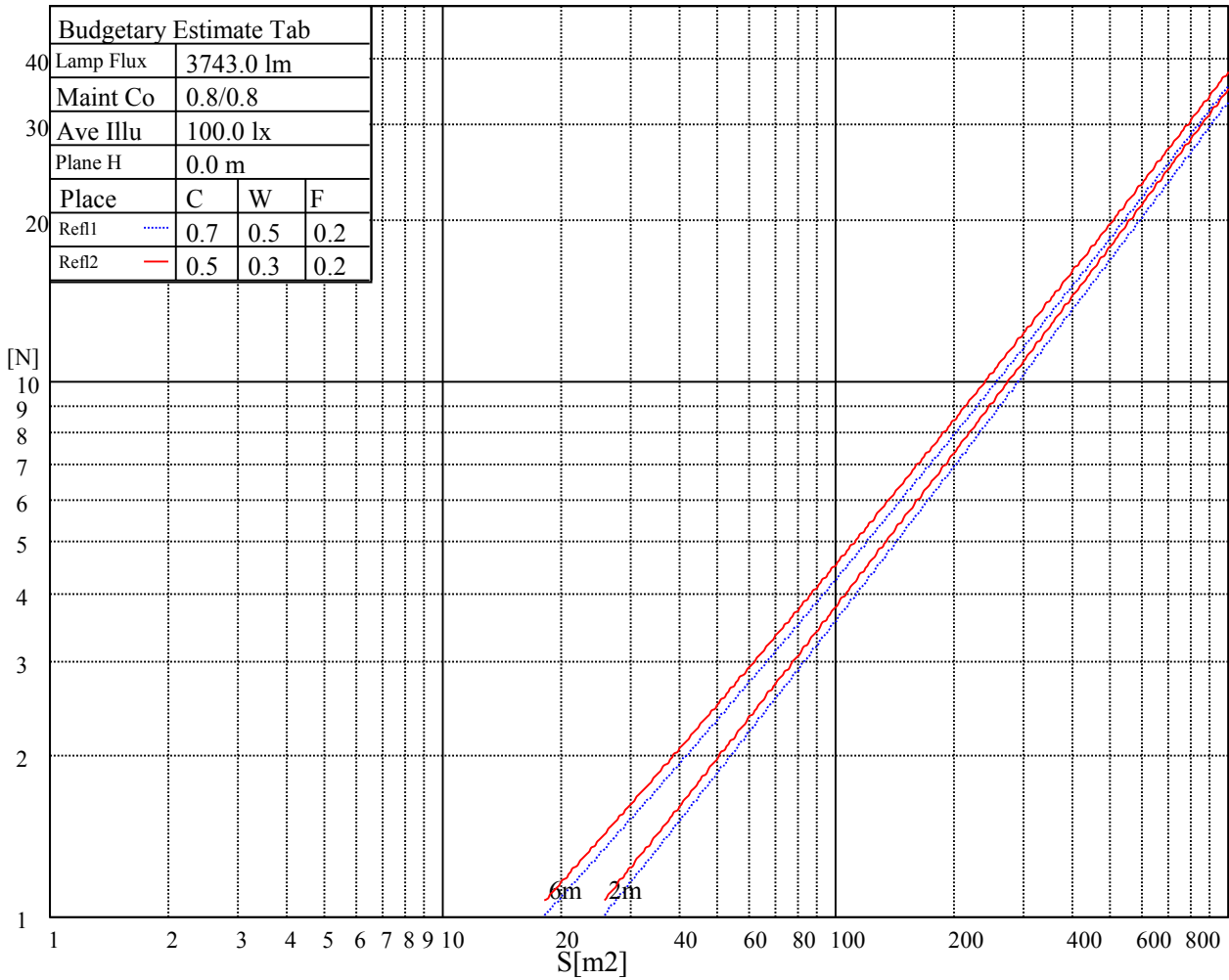
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
7138	7138	7138	12250	12250	12250	34519	34519	34519

Glare Table

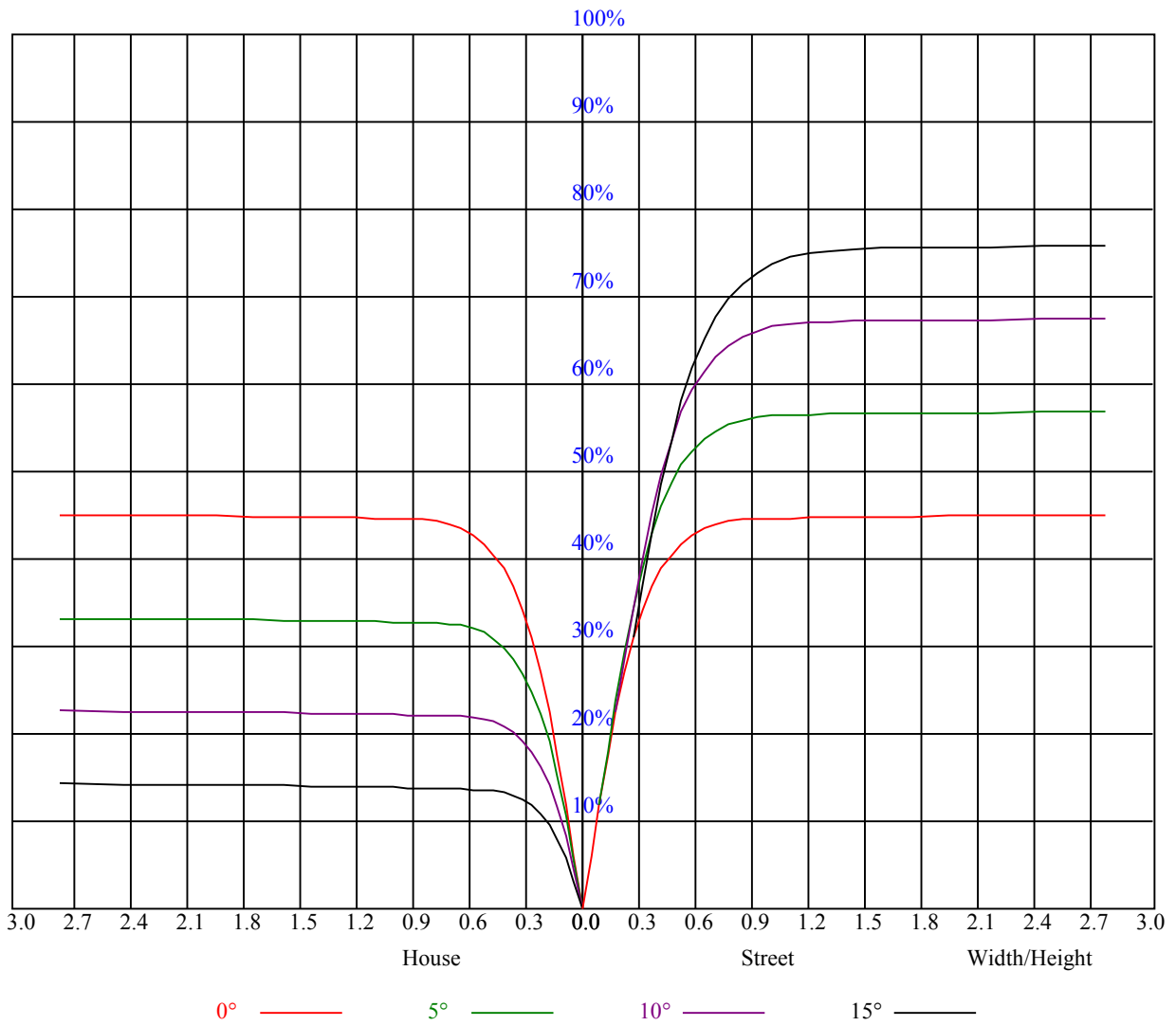
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.97	0.97	0.97	0.93	0.93	0.93	0.92
1	1.01	0.99	0.96	0.99	0.97	0.95	0.95	0.94	0.92	0.92	0.90	0.89	0.89	0.88	0.87	0.85
2	0.96	0.92	0.89	0.94	0.91	0.88	0.91	0.89	0.86	0.88	0.86	0.85	0.86	0.84	0.83	0.81
3	0.91	0.87	0.84	0.90	0.86	0.83	0.87	0.84	0.82	0.85	0.83	0.81	0.83	0.81	0.79	0.78
4	0.87	0.83	0.79	0.86	0.82	0.79	0.84	0.81	0.78	0.82	0.79	0.77	0.81	0.78	0.76	0.75
5	0.83	0.79	0.76	0.83	0.78	0.75	0.81	0.77	0.75	0.80	0.77	0.74	0.78	0.76	0.74	0.72
6	0.80	0.76	0.72	0.79	0.75	0.72	0.78	0.74	0.72	0.77	0.74	0.71	0.76	0.73	0.71	0.70
7	0.77	0.73	0.70	0.77	0.72	0.69	0.75	0.72	0.69	0.74	0.71	0.69	0.74	0.71	0.68	0.67
8	0.74	0.70	0.67	0.74	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.66	0.71	0.68	0.66	0.65
9	0.72	0.68	0.65	0.71	0.67	0.65	0.71	0.67	0.65	0.70	0.67	0.64	0.69	0.66	0.64	0.63
10	0.70	0.65	0.63	0.69	0.65	0.63	0.69	0.65	0.62	0.68	0.65	0.62	0.67	0.64	0.62	0.61



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	8319.57	8163.21	7151.28	5274.40	3246.68	1755.20	1254.74	680.50	279.14
45.0	8348.75	8009.61	6731.75	4711.18	2783.10	1578.47	1147.93	483.95	42.34
90.0	8336.64	7687.53	6194.95	4004.25	2224.28	1375.86	914.10	289.27	21.80
135.0	8351.51	7977.12	6610.07	4595.56	2758.33	1527.82	1060.39	425.04	41.79
180.0	8319.57	7939.13	6707.52	4628.59	2773.74	1568.56	1065.56	493.25	46.52
225.0	8348.75	8175.32	7196.97	5339.92	3080.41	1756.30	1076.85	632.71	128.28
270.0	8336.64	8289.29	7670.46	5993.99	3906.25	2242.45	1388.52	877.60	301.16
315.0	8351.51	8196.80	7293.32	5479.76	3420.10	1816.31	1082.41	709.24	160.10
360.0	8319.57	8163.21	7151.28	5274.40	3246.68	1755.20	1254.74	680.50	279.14
C/ $\gamma$ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	19.38	17.73	16.85	16.63	17.01	18.33	18.72	18.83	17.84
45.0	18.39	17.01	16.46	17.95	20.04	20.21	20.70	22.08	18.50
90.0	18.28	17.18	17.01	18.77	22.57	25.00	25.77	26.43	17.56
135.0	18.83	17.56	16.79	16.46	16.63	17.67	18.22	18.00	19.82
180.0	18.66	17.40	16.74	16.30	16.08	16.08	16.52	17.84	17.29
225.0	18.88	17.12	16.19	15.75	15.42	15.31	15.36	15.58	15.80
270.0	21.86	18.00	16.74	16.19	15.75	15.53	15.42	15.91	16.08
315.0	19.49	17.78	16.68	16.19	15.91	15.80	15.80	16.13	16.13
360.0	19.38	17.73	16.85	16.63	17.01	18.33	18.72	18.83	17.84
C/ $\gamma$ (°)	90.0								
0.0	15.47								
45.0	14.87								
90.0	15.14								
135.0	15.42								
180.0	15.47								
225.0	14.87								
270.0	15.09								
315.0	15.36								
360.0	15.47								