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## Nata

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LumCAT: 3-1543-E	
Luminaire: 92.76.263.00	
Report No: NATA0100	Voltage(V): 30.0000
Test No: 2017011905	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): 88	Width(mm): 88
Phm Type: C	Height(mm): 0

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## Photometric Results

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Lumens(lm): 3397.19  
Efficiency(%): 90.76%  
Lumens(lm)/Power(W): 120.53  
Central intensity(cd): 6871.039  
Maximum intensity(cd): 6871.039  
Angle of maximum intensity: C=0.0  $\gamma$ =0.0  
Beam Angle(50%Imax): [C0/180]Total=35.6  
                                  [C90/270]Total=35.6  
Field angle(10%Imax): [C0/180]Total=75.9  
                                  [C90/270]Total=75.9  
Maximum s/h(1/2): C0\_180=0.58 C90\_270=0.58  
Maximum s/h(1/4): C0\_180=0.61 C90\_270=0.61  
Up flux rate of lamp(%): 0.00%  
Down flux rate of lamp(%): 91.77%  
Up flux rate of LUM(%): - -  
Down flux rate of LUM(%): 100.00%  
CIE Type : Direct lighting  
Output flux ratio in  $\pi$  solid angle : 97.446%

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Equipment: gms1980  
Temperature(°C): 25.0

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

Operator: NT03  
Distance(m): 7.42

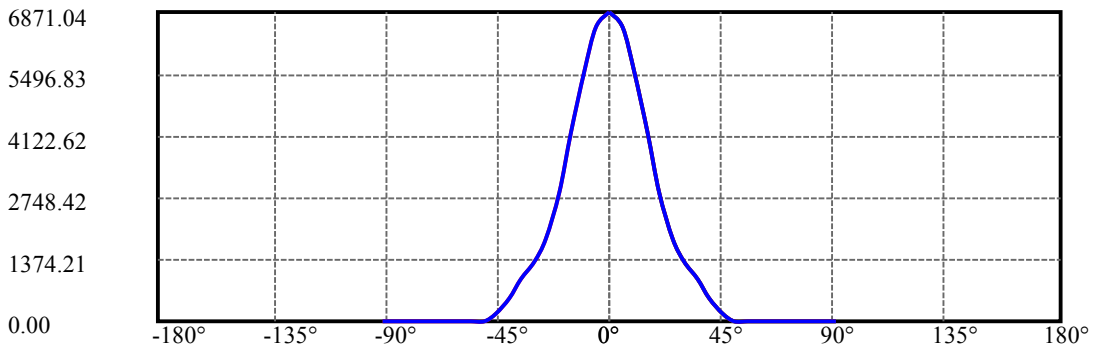
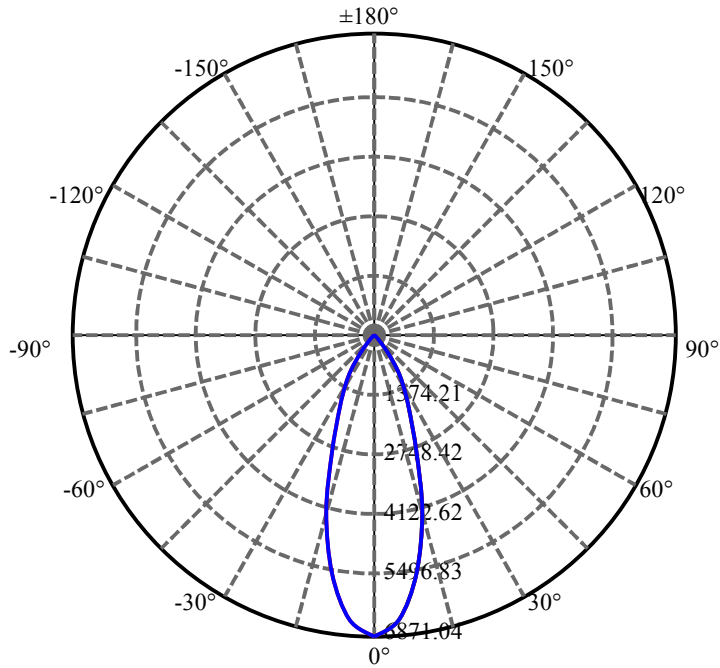
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	6871.039	41.090	41.09	1.098%	1.210%
5.0	6521.086	311.534	352.624	8.323%	10.380%
10.0	5531.241	526.480	879.105	14.066%	25.877%
15.0	4184.699	593.677	1472.781	15.861%	43.353%
20.0	2839.878	532.403	2005.185	14.224%	59.025%
25.0	1839.159	426.046	2431.231	11.382%	71.566%
30.0	1305.972	357.926	2789.157	9.563%	82.102%
35.0	946.055	297.438	3086.595	7.947%	90.857%
40.0	505.480	178.099	3264.694	4.758%	96.100%
45.0	152.011	58.918	3323.612	1.574%	97.834%
50.0	18.699	7.851	3331.464	.210%	98.065%
55.0	17.253	7.747	3339.211	.207%	98.293%
60.0	17.102	8.118	3347.329	.217%	98.532%
65.0	17.253	8.571	3355.9	.229%	98.785%
70.0	17.391	8.958	3364.858	.239%	99.048%
75.0	17.680	9.361	3374.219	.250%	99.324%
80.0	18.458	9.964	3384.182	.266%	99.617%
85.0	16.544	9.034	3393.216	.241%	99.883%
90.0	14.487	3.970	3397.187	.106%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2789.16	74.52%	82.10%
0-40	3264.69	87.22%	96.10%
0-60	3347.33	89.43%	98.53%
0-90	3393.22	90.65%	99.88%
0-120	3393.22	90.65%	99.88%
0-180	3397.19	90.76%	100.00%
60-90	54.01	1.44%	1.59%
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%
0-29.00	2717.75	72.61%	80.00%

ZONAL LUMEN SUMMARY

0-10	879.10
10-20	1126.08
20-30	783.97
30-40	475.54
40-50	66.77
50-60	15.87
60-70	17.53
70-80	19.32
80-90	9.03
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: ———

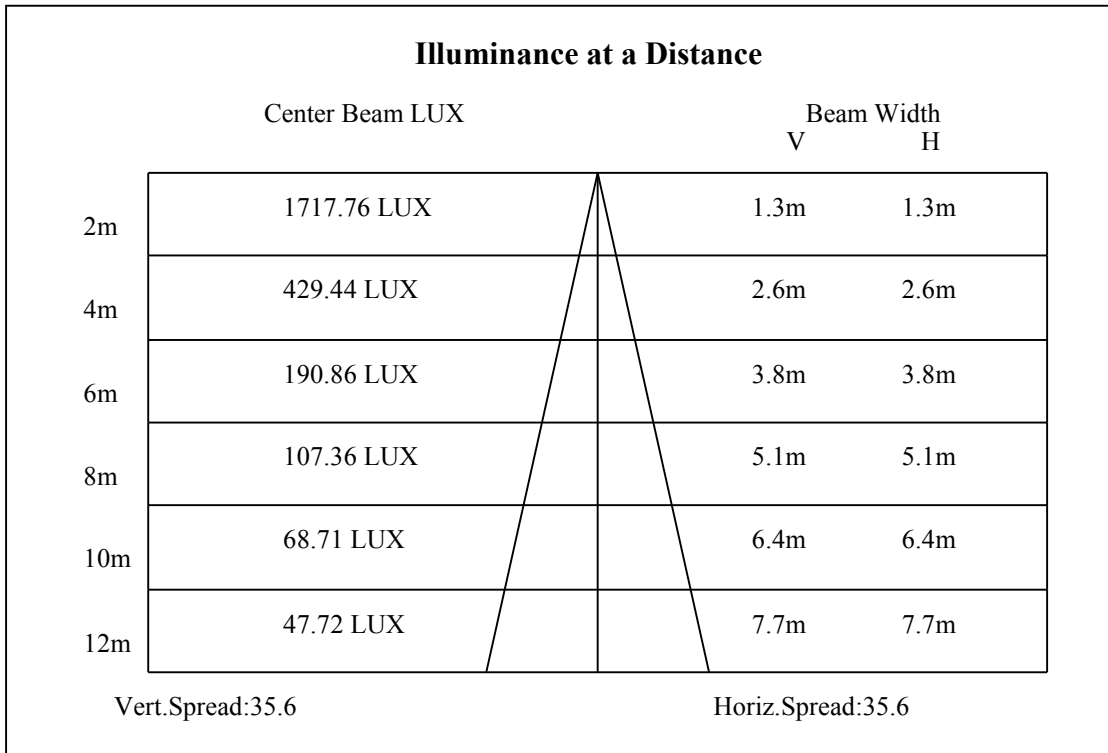
C90/C270: ———

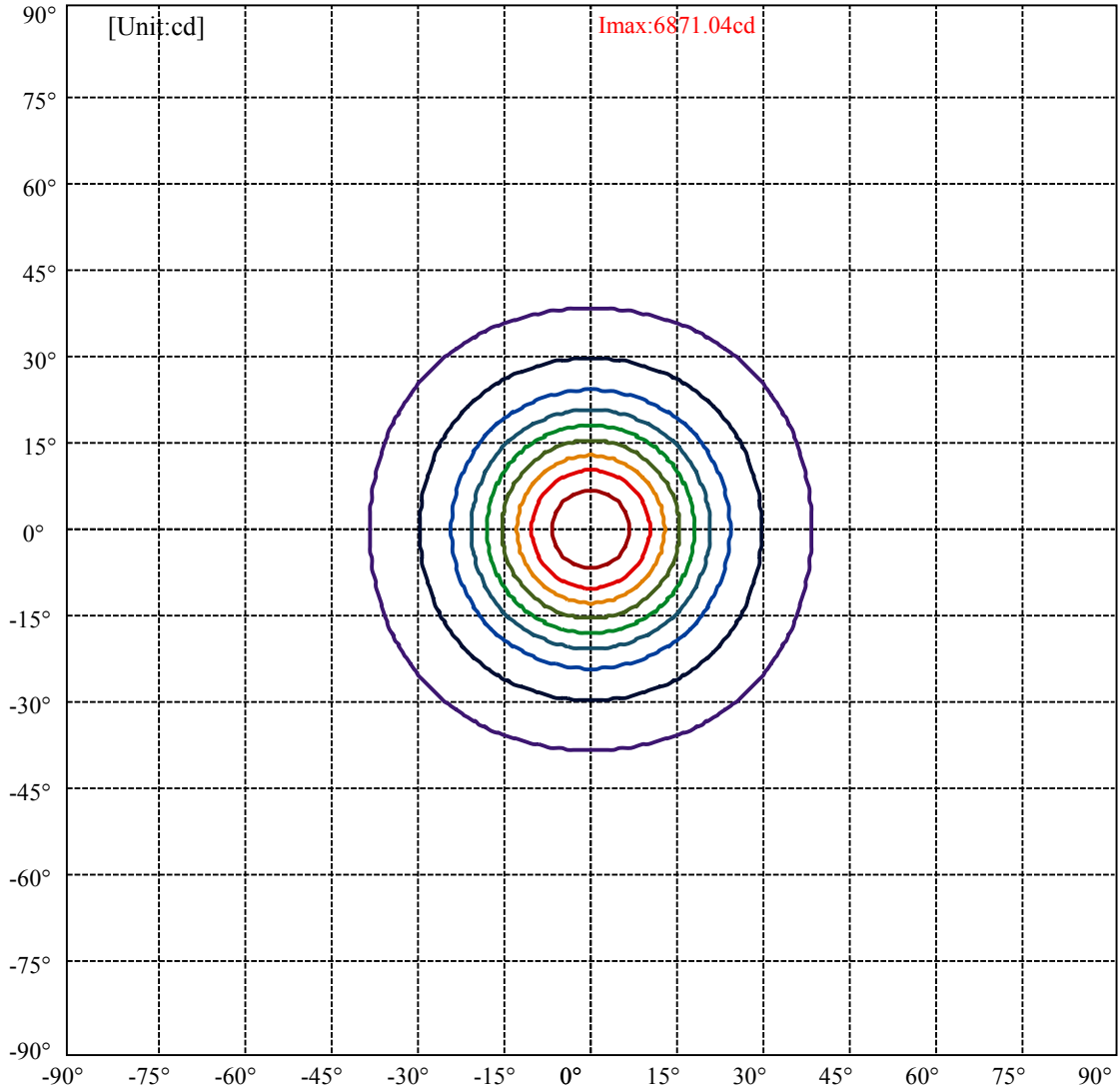
Field angle(10%Imax):C0/180Left:37.9 Right:37.9

:C90/270Left:37.9 Right:37.9

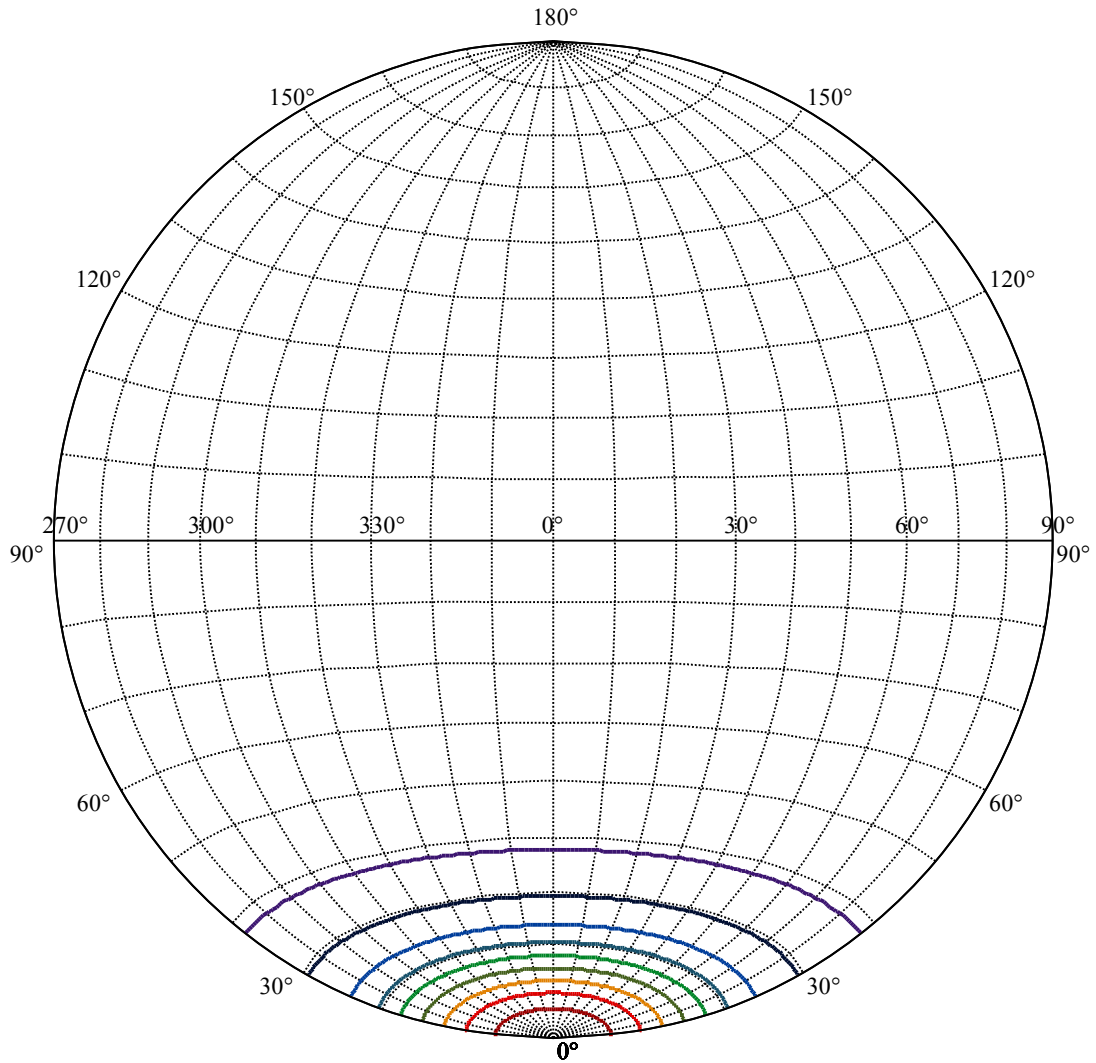
Beam Angle(50%Imax):C0/180Left:17.8 Right:17.8

:C90/270Left:17.8 Right:17.8





(10%Imax) 687.104	—
(20%Imax) 1374.21	—
(30%Imax) 2061.31	—
(40%Imax) 2748.42	—
(50%Imax) 3435.52	—
(60%Imax) 4122.62	—
(70%Imax) 4809.73	—
(80%Imax) 5496.83	—
(90%Imax) 6183.93	—



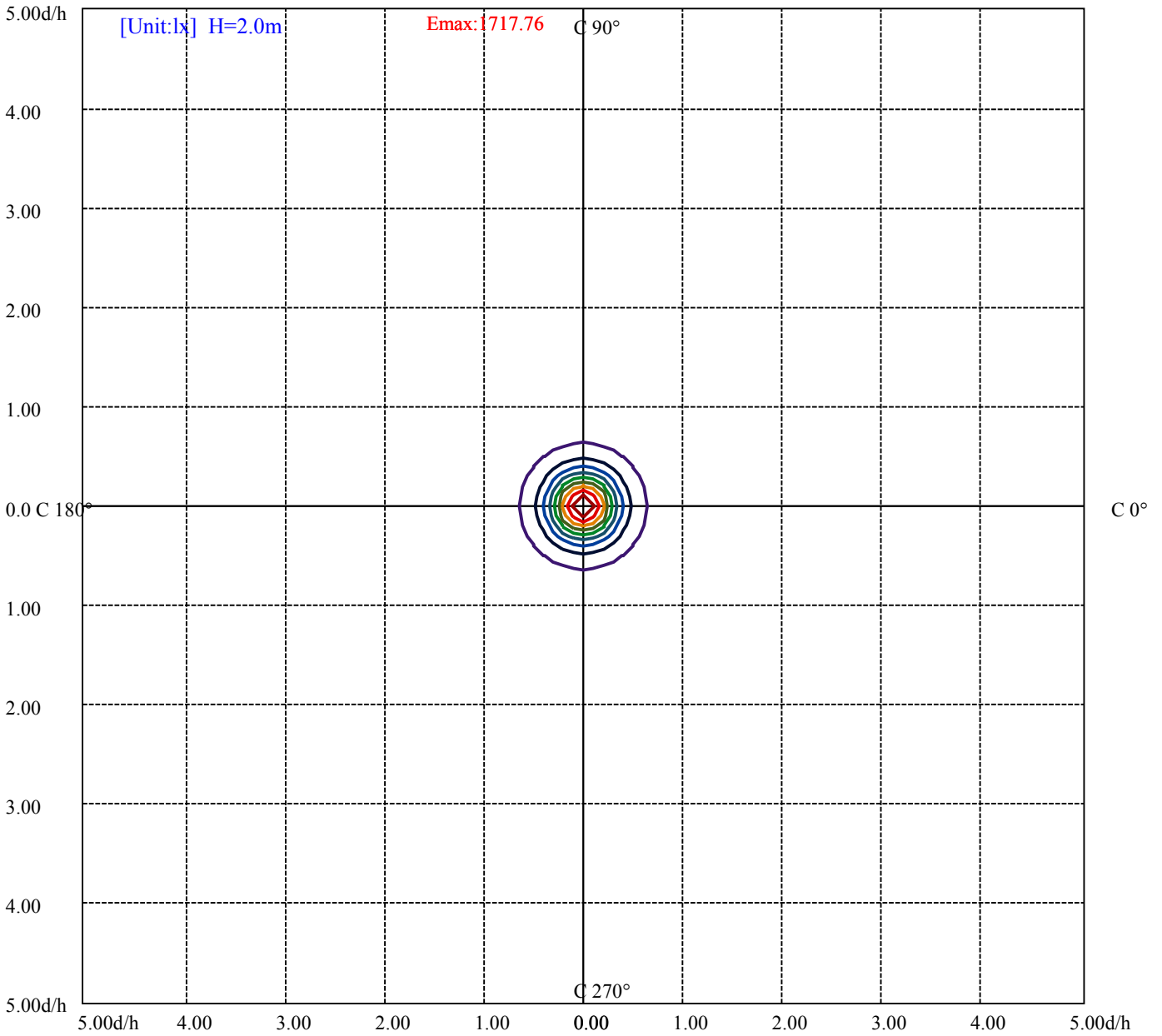
House

[Unit:cd]

Road

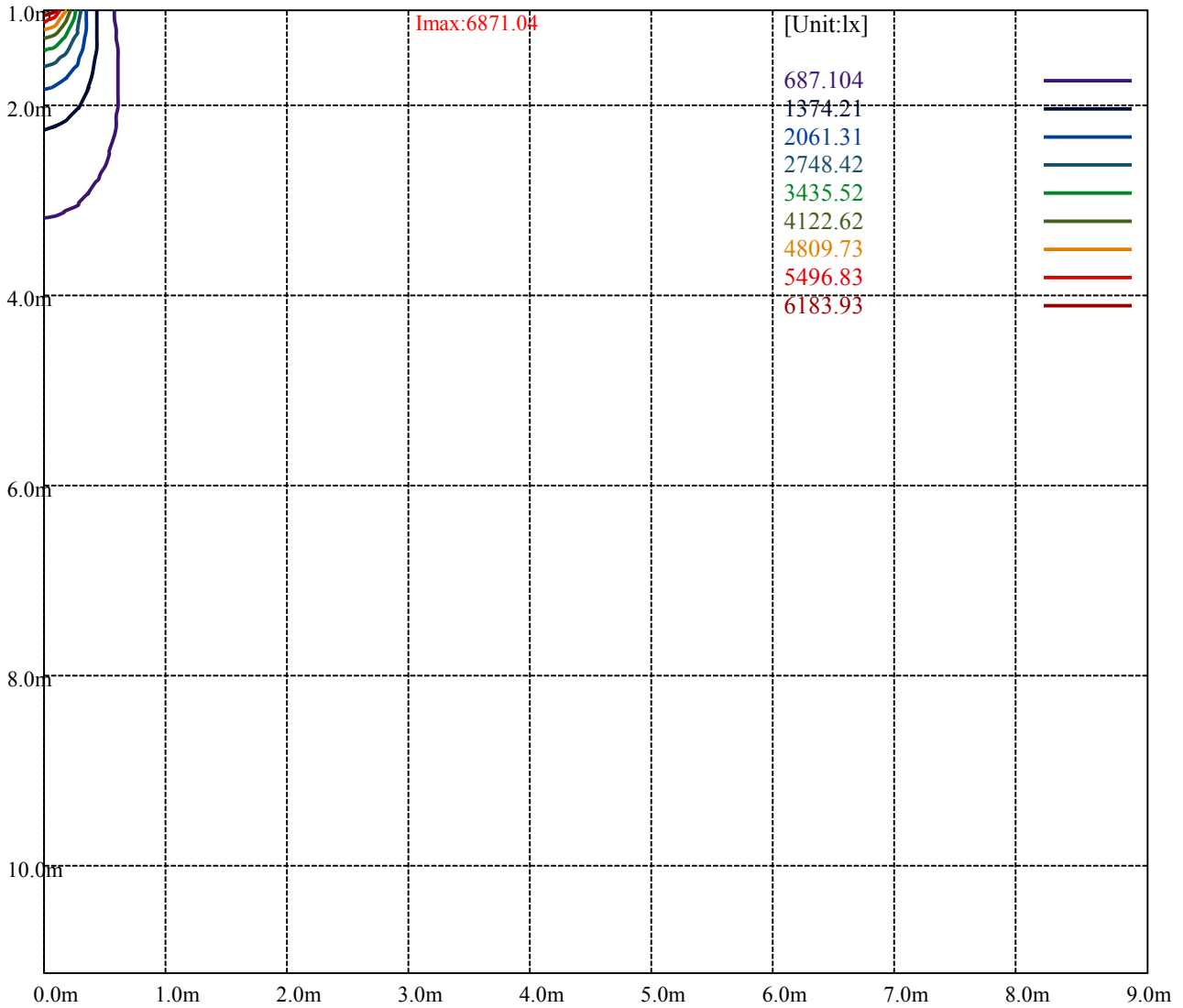
**Imax:6871.04**

(10%Imax) 687.104	—
(20%Imax) 1374.21	—
(30%Imax) 2061.31	—
(40%Imax) 2748.42	—
(50%Imax) 3435.52	—
(60%Imax) 4122.62	—
(70%Imax) 4809.73	—
(80%Imax) 5496.83	—
(90%Imax) 6183.93	—



- (10%Emax) 171.7758
- (20%Emax) 343.5525
- (30%Emax) 515.3275
- (40%Emax) 687.1025
- (50%Emax) 858.8775
- (60%Emax) 1030.655
- (70%Emax) 1202.43
- (80%Emax) 1374.205
- (90%Emax) 1545.98





Luminance Table

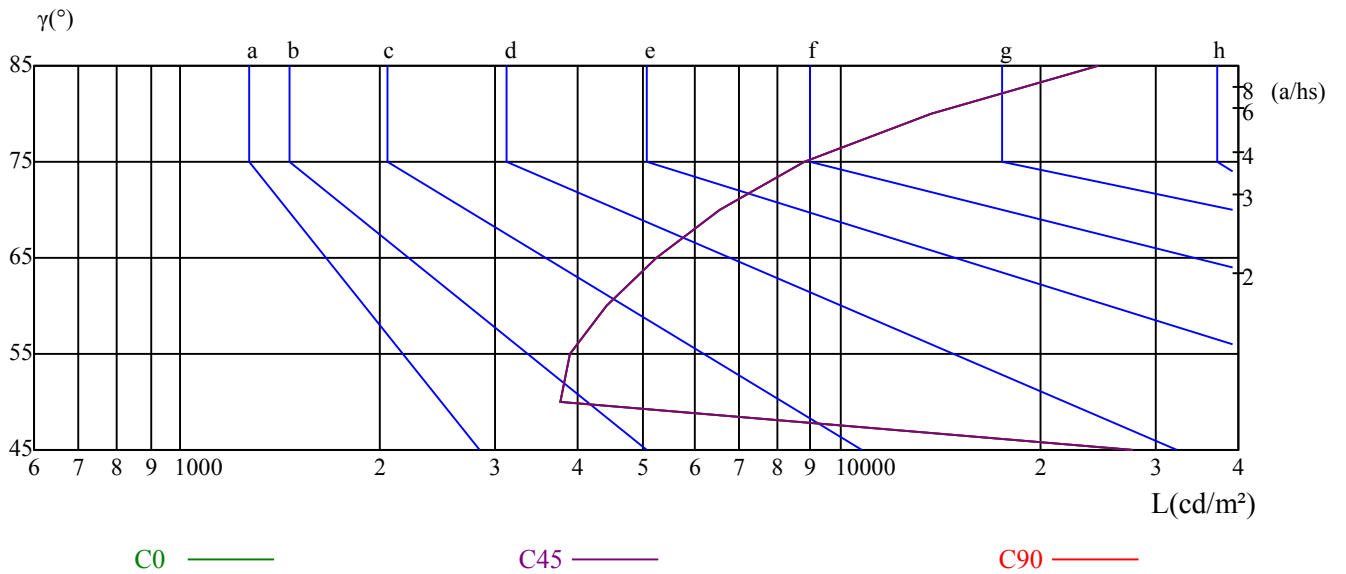
$\gamma$	45	50	55	60	65	70	75	80	85
C0	27760	3756	3884	4417	5272	6566	8821	13726	24513
C45	27760	3756	3884	4417	5272	6566	8821	13726	24513
C90	27760	3756	3884	4417	5272	6566	8821	13726	24513

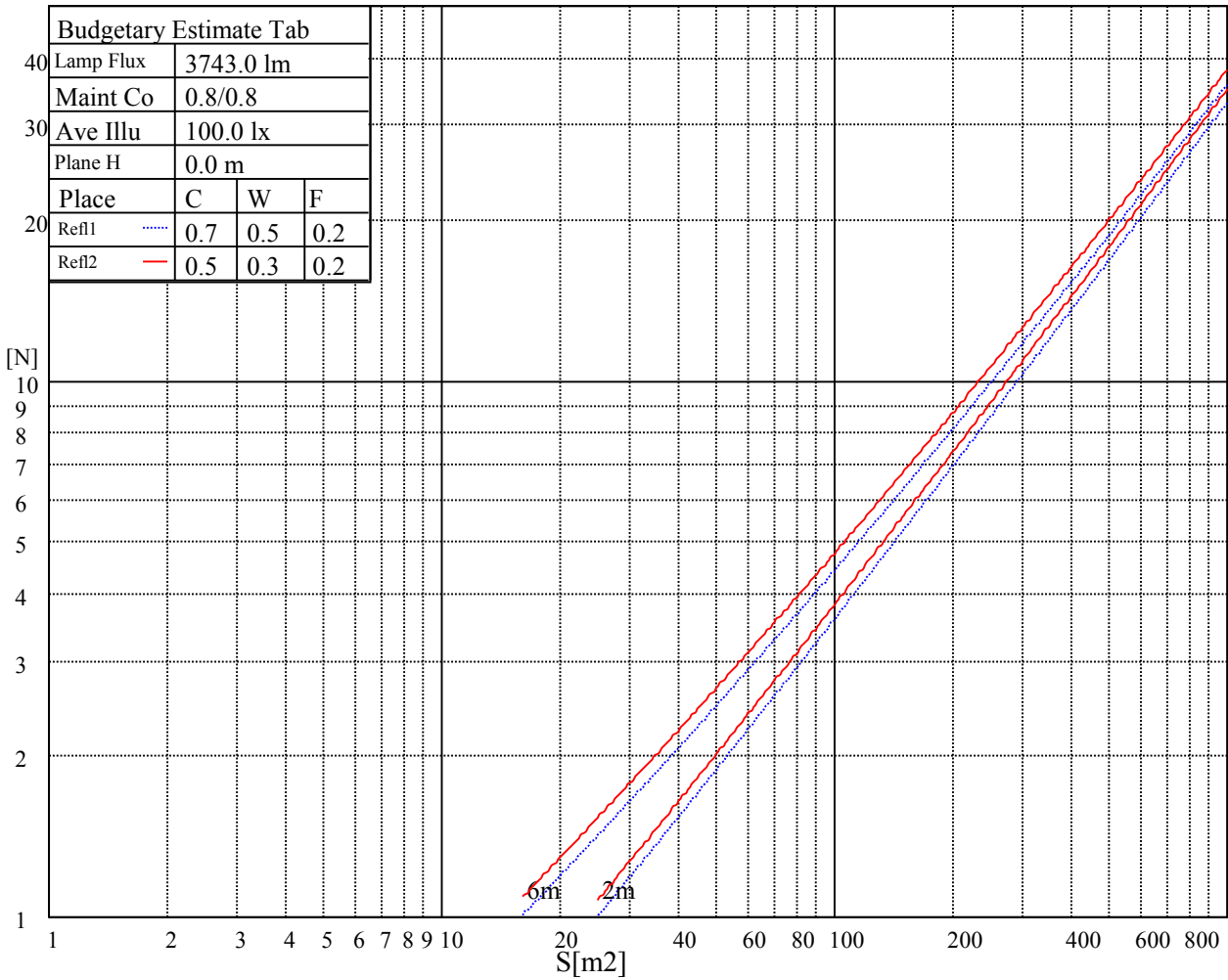
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
5272	5272	5272	8821	8821	8821	24513	24513	24513

Glare Table

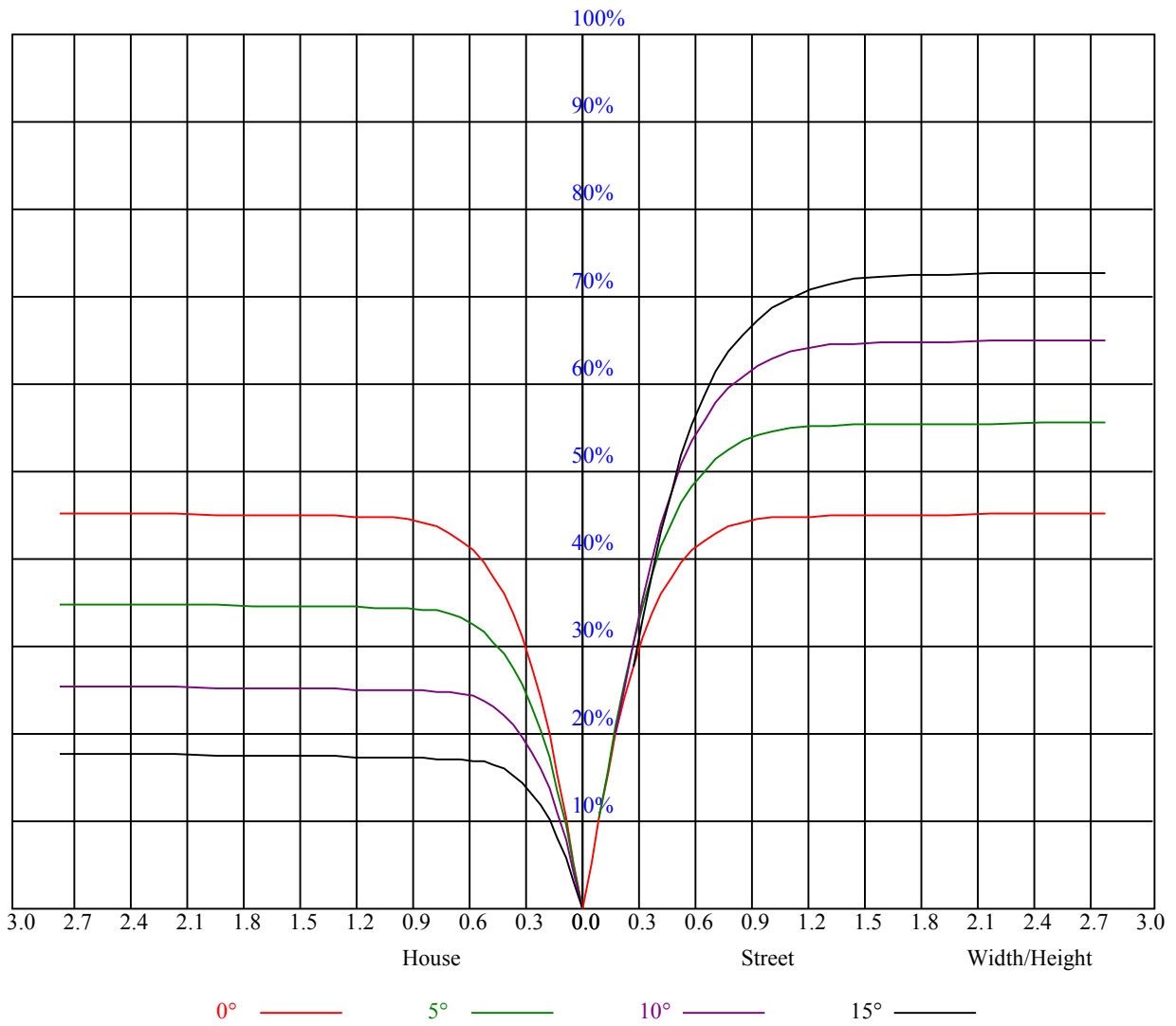
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.96	0.99	0.97	0.95	0.95	0.93	0.92	0.92	0.90	0.89	0.89	0.88	0.87	0.85
2	0.95	0.91	0.88	0.93	0.90	0.87	0.90	0.88	0.85	0.88	0.86	0.84	0.85	0.83	0.82	0.80
3	0.90	0.85	0.82	0.88	0.85	0.81	0.86	0.83	0.80	0.84	0.81	0.79	0.82	0.80	0.78	0.76
4	0.85	0.80	0.77	0.84	0.80	0.77	0.82	0.79	0.76	0.80	0.77	0.75	0.79	0.76	0.74	0.73
5	0.81	0.76	0.73	0.80	0.76	0.72	0.78	0.75	0.72	0.77	0.74	0.71	0.76	0.73	0.70	0.69
6	0.77	0.72	0.69	0.76	0.72	0.69	0.75	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.67	0.66
7	0.74	0.69	0.66	0.73	0.69	0.65	0.72	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.64	0.63
8	0.71	0.66	0.63	0.70	0.66	0.62	0.69	0.65	0.62	0.68	0.65	0.62	0.67	0.64	0.62	0.61
9	0.68	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.60	0.66	0.62	0.59	0.65	0.62	0.59	0.58
10	0.65	0.61	0.57	0.65	0.60	0.57	0.64	0.60	0.57	0.63	0.60	0.57	0.63	0.59	0.57	0.56



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	6873.79	6618.88	5644.93	4239.89	2952.12	1855.40	1352.19	980.00	550.01
45.0	6863.33	6732.30	5919.66	4627.49	3319.90	2102.05	1458.44	1117.09	669.49
90.0	6898.02	6726.79	5881.12	4569.68	3066.64	2059.66	1428.71	1059.51	643.33
135.0	6849.02	6748.81	5960.96	4677.59	3264.29	2100.40	1457.34	1082.41	636.45
180.0	6873.79	6460.87	5387.27	4060.41	2721.99	1747.49	1305.94	903.31	455.59
225.0	6863.33	6277.53	5093.27	3714.10	2439.00	1604.89	1074.59	801.24	347.68
270.0	6898.02	6379.94	5222.65	3915.61	2540.85	1671.51	1295.48	849.52	382.64
315.0	6849.02	6223.58	5140.07	3672.81	2414.22	1571.86	1075.09	775.36	358.64
360.0	6873.79	6618.88	5644.93	4239.89	2952.12	1855.40	1352.19	980.00	550.01

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	278.03	17.29	16.35	16.19	16.35	16.85	16.96	19.21	16.46
45.0	295.10	21.58	16.46	15.97	15.97	16.08	16.24	16.52	15.80
90.0	195.17	17.51	16.13	15.42	15.03	14.87	14.98	15.09	15.31
135.0	285.19	18.83	16.02	15.47	15.14	14.98	14.87	14.92	14.98
180.0	53.18	18.22	18.61	19.38	19.38	18.50	18.17	18.61	15.64
225.0	34.85	21.20	20.65	20.10	19.38	18.99	20.32	22.35	17.40
270.0	35.40	18.28	17.95	18.66	21.03	22.74	22.85	23.45	18.28
315.0	39.15	16.68	15.86	15.64	15.75	16.13	17.07	17.51	18.50
360.0	278.03	17.29	16.35	16.19	16.35	16.85	16.96	19.21	16.46

C/γ(°)	90.0
0.0	14.37
45.0	14.65
90.0	14.48
135.0	14.42
180.0	14.37
225.0	14.70
270.0	14.48
315.0	14.42
360.0	14.37