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## Nata

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LumCAT: 2-1550-A  
Luminaire: 92.76.374.00  
Report No: NT2017011902  
Test No: GC2017011902  
LampCAT: BRIDGELUX VERO SE 13B  
Lamp flux(lm): 3154.0  
Number of Lamps: 1  
Length(mm): 70  
Phm Type: C

Voltage(V): 36.0000  
Current(A): 0.6500  
Power (W): 23.4000  
PF: 0.0000  
Ballast type: DC  
Width(mm): 70  
Height(mm): 0

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## Photometric Results

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Lumens(lm): 2918.57  
Efficiency(%): 92.54%  
Lumens(lm)/Power(W): 124.73  
Central intensity(cd): 6071.069  
Maximum intensity(cd): 6071.069  
Angle of maximum intensity: C=0.0  $\gamma$ =0.0  
Beam Angle(50%Imax): [C0/180]Total=37.8  
                                  [C90/270]Total=37.8  
Field angle(10%Imax): [C0/180]Total=71.9  
                                  [C90/270]Total=71.9  
Maximum s/h(1/2): C0\_180=0.63 C90\_270=0.63  
Maximum s/h(1/4): C0\_180=0.60 C90\_270=0.60  
Up flux rate of lamp(%): 0.00%  
Down flux rate of lamp(%): 93.60%  
Up flux rate of LUM(%): - -  
Down flux rate of LUM(%): 100.00%  
CIE Type : Direct lighting  
Output flux ratio in  $\pi$  solid angle : 97.526%

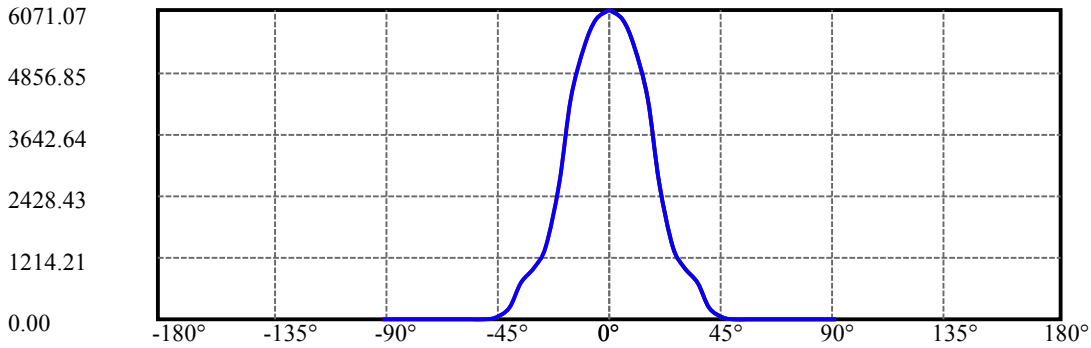
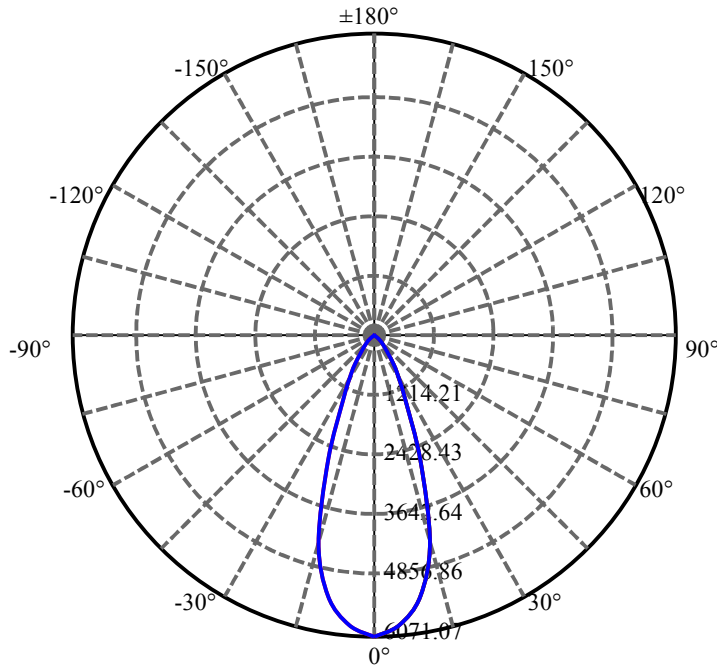
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	6071.069	36.306	36.306	1.151%	1.244%
5.0	5877.064	280.767	317.073	8.902%	10.864%
10.0	5348.316	509.069	826.142	16.140%	28.306%
15.0	4331.562	614.512	1440.654	19.484%	49.362%
20.0	2672.231	500.974	1941.628	15.884%	66.527%
25.0	1422.244	329.467	2271.095	10.446%	77.815%
30.0	1035.308	283.746	2554.84	8.996%	87.537%
35.0	698.576	219.631	2774.472	6.964%	95.063%
40.0	216.730	76.362	2850.834	2.421%	97.679%
45.0	19.277	7.471	2858.305	.237%	97.935%
50.0	16.427	6.898	2865.203	.219%	98.171%
55.0	15.313	6.875	2872.078	.218%	98.407%
60.0	14.741	6.998	2879.076	.222%	98.647%
65.0	14.390	7.149	2886.225	.227%	98.892%
70.0	14.108	7.267	2893.492	.230%	99.141%
75.0	13.737	7.273	2900.765	.231%	99.390%
80.0	13.372	7.218	2907.983	.229%	99.637%
85.0	12.966	7.080	2915.063	.224%	99.880%
90.0	12.807	3.510	2918.573	.111%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2554.84	81.00%	87.54%
0-40	2850.83	90.39%	97.68%
0-60	2879.08	91.28%	98.65%
0-90	2915.06	92.42%	99.88%
0-120	2915.06	92.42%	99.88%
0-180	2918.57	92.54%	100.00%
60-90	42.98	1.36%	1.47%
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%
0-26.12	2334.86	74.03%	80.00%

ZONAL LUMEN SUMMARY

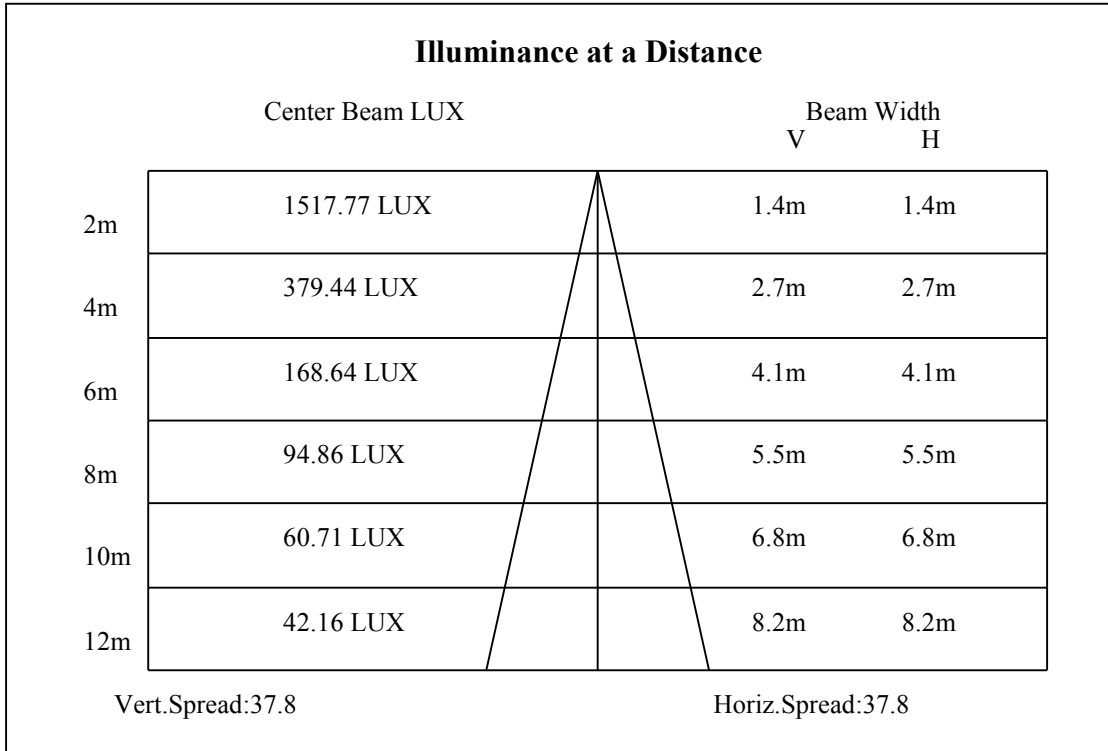
0-10	826.14
10-20	1115.49
20-30	613.21
30-40	295.99
40-50	14.37
50-60	13.87
60-70	14.42
70-80	14.49
80-90	7.08
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

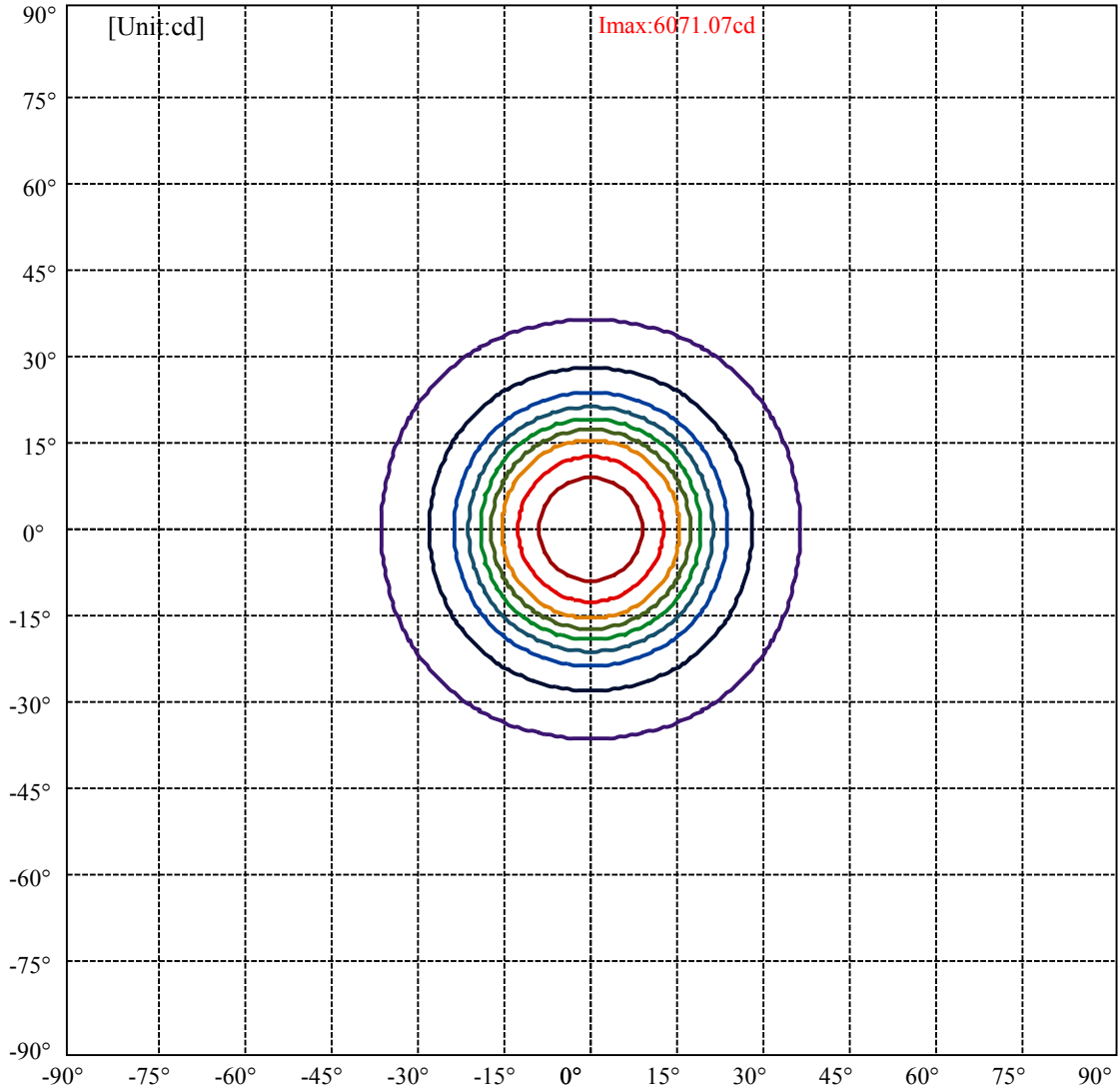


C0(Max): —————  
C0/C180: —————  
C90/C270: —————

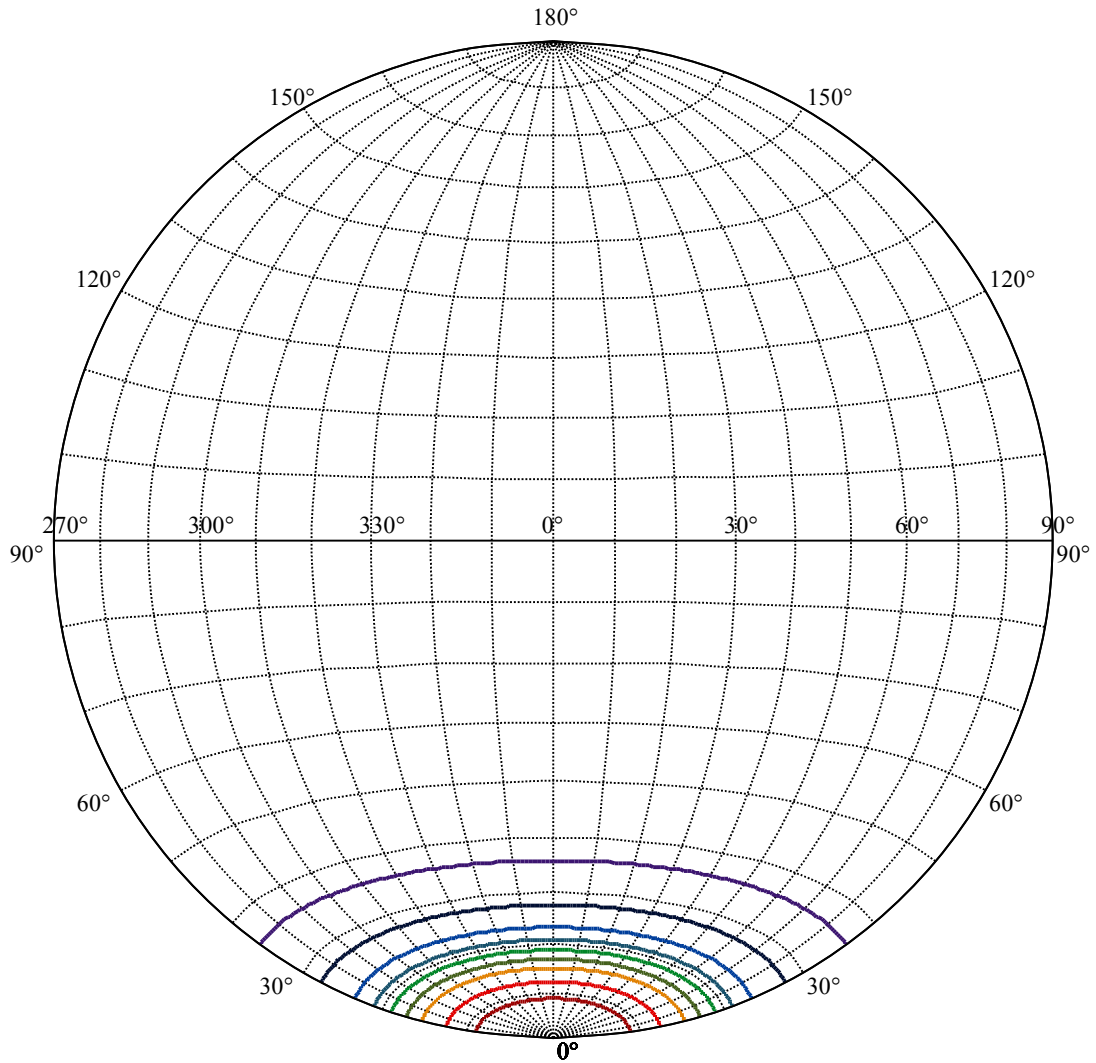
Field angle(10%Imax):C0/180Left:35.9 Right:35.9  
:C90/270Left:35.9 Right:35.9

Beam Angle(50%Imax):C0/180Left:18.9 Right:18.9  
:C90/270Left:18.9 Right:18.9





(10%Imax) 607.107	—
(20%Imax) 1214.21	—
(30%Imax) 1821.32	—
(40%Imax) 2428.43	—
(50%Imax) 3035.53	—
(60%Imax) 3642.64	—
(70%Imax) 4249.75	—
(80%Imax) 4856.85	—
(90%Imax) 5463.96	—



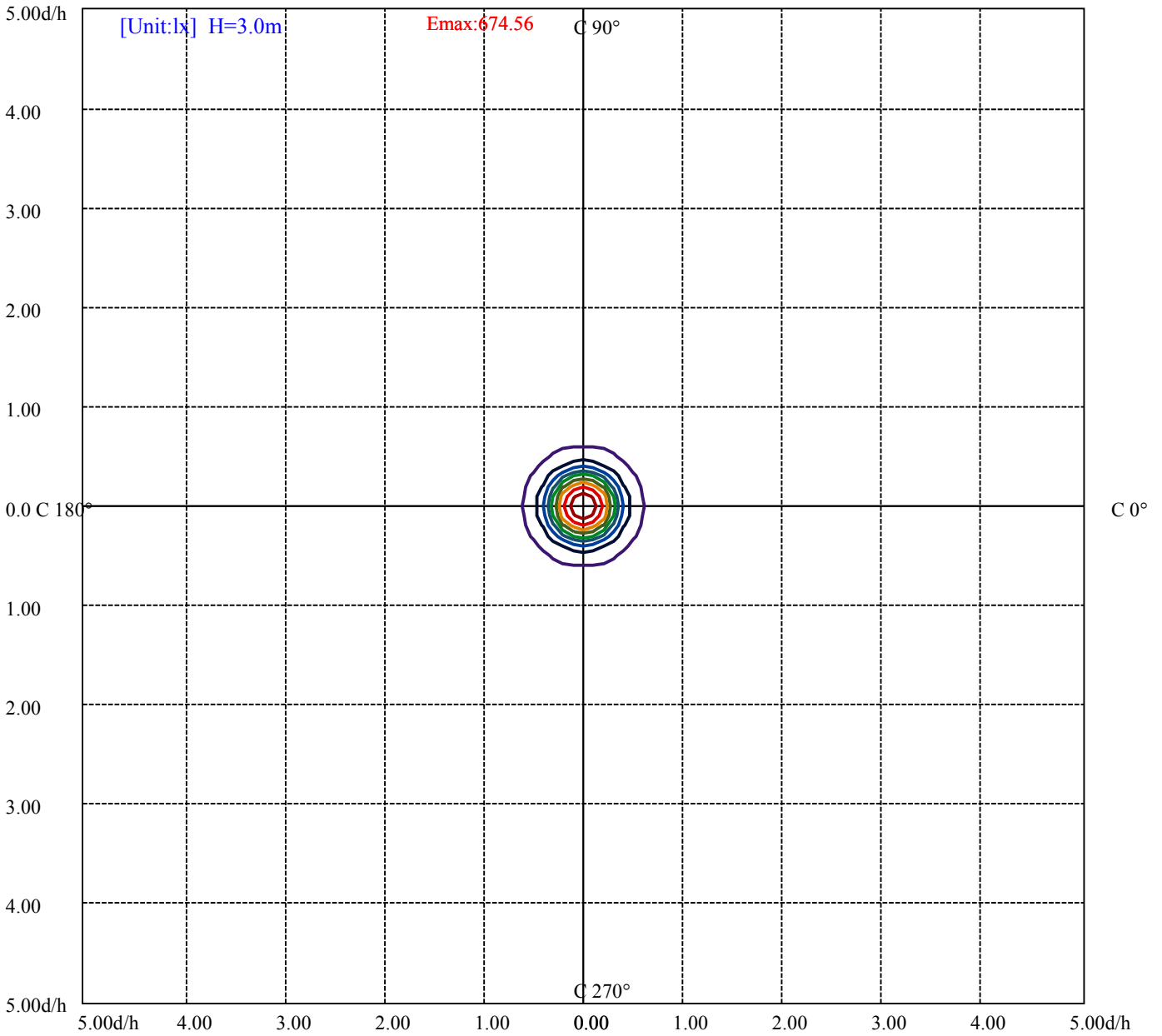
House

[Unit:cd]

Road

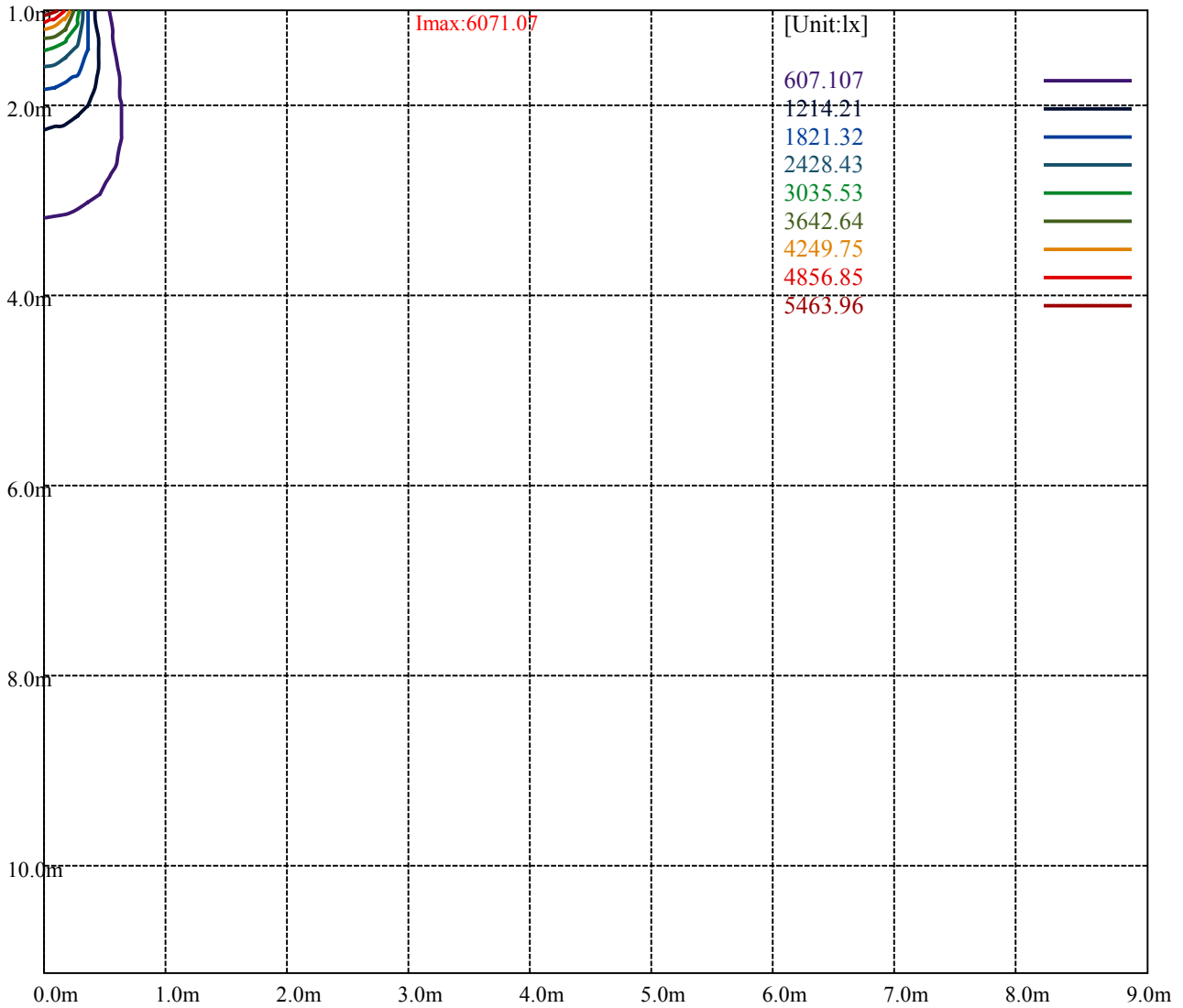
**Imax:6071.07**

(10%Imax) 607.107	—
(20%Imax) 1214.21	—
(30%Imax) 1821.32	—
(40%Imax) 2428.43	—
(50%Imax) 3035.53	—
(60%Imax) 3642.64	—
(70%Imax) 4249.75	—
(80%Imax) 4856.85	—
(90%Imax) 5463.96	—



(10%Emax) 67.45622	—
(20%Emax) 134.9122	—
(30%Emax) 202.3689	—
(40%Emax) 269.8256	—
(50%Emax) 337.2811	—
(60%Emax) 404.7378	—
(70%Emax) 472.1934	—
(80%Emax) 539.65	—
(90%Emax) 607.1067	—





Luminance Table

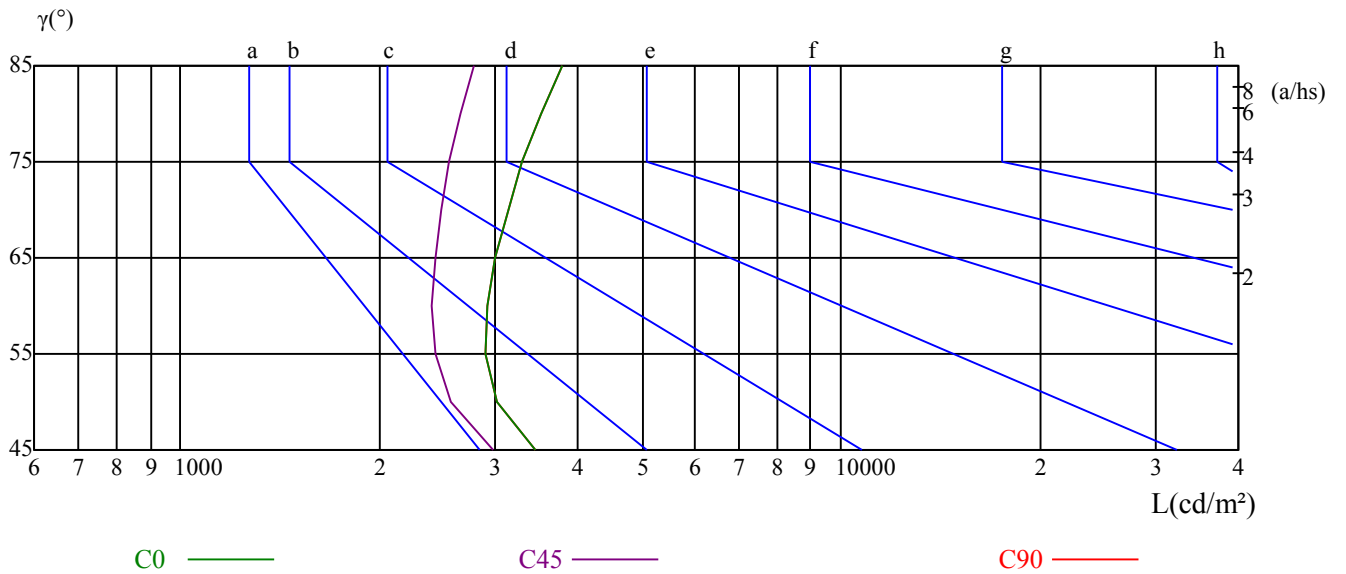
$\gamma$	45	50	55	60	65	70	75	80	85
C0	3446	3011	2902	2915	2999	3132	3290	3505	3785
C45	2977	2563	2432	2402	2427	2486	2553	2652	2778
C90	3446	3011	2902	2915	2999	3132	3290	3505	3785

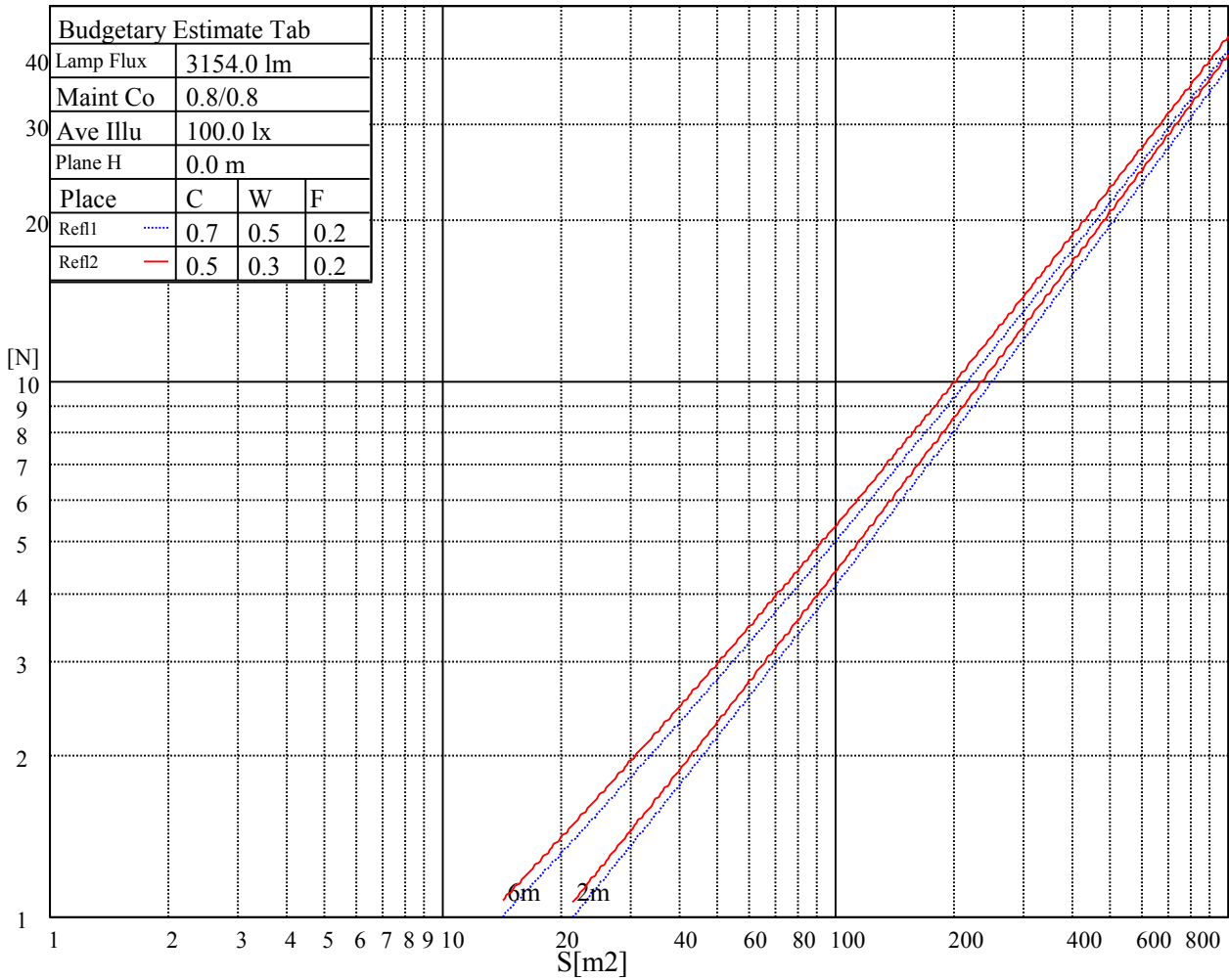
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
6949	6949	6949	10831	10831	10831	30360	30360	30360

Glare Table

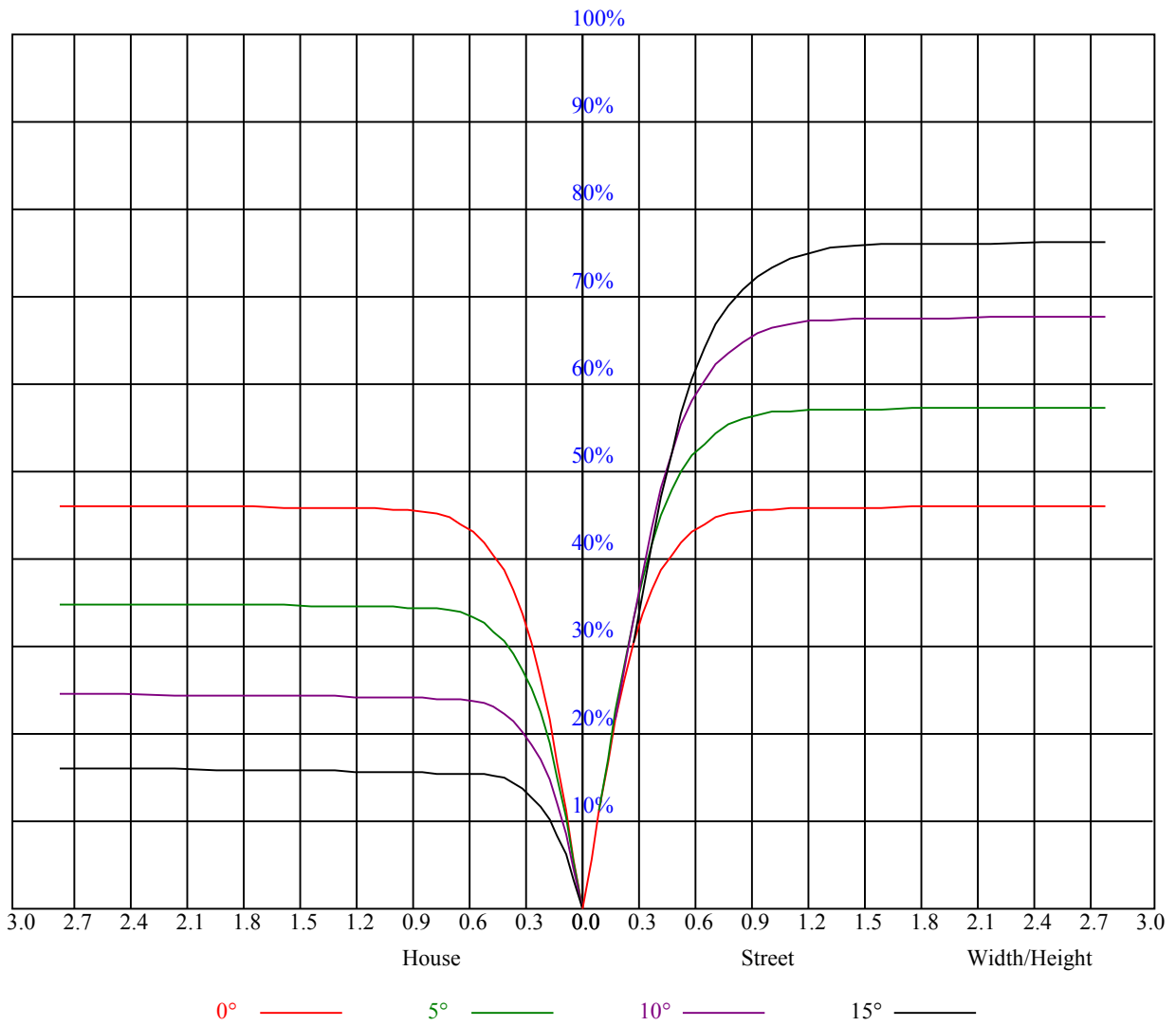
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	1.11	1.11	1.11	1.09	1.09	1.09	1.04	1.04	1.04	1.00	1.00	1.00	0.96	0.96	0.96	0.94
1	1.03	1.01	0.99	1.01	0.99	0.97	0.97	0.96	0.94	0.94	0.93	0.91	0.91	0.90	0.89	0.87
2	0.98	0.94	0.91	0.96	0.93	0.90	0.93	0.90	0.88	0.90	0.88	0.86	0.88	0.86	0.84	0.83
3	0.93	0.88	0.85	0.91	0.88	0.85	0.89	0.86	0.83	0.87	0.84	0.82	0.85	0.83	0.81	0.79
4	0.88	0.84	0.80	0.87	0.83	0.80	0.85	0.82	0.79	0.83	0.80	0.78	0.82	0.79	0.77	0.76
5	0.84	0.80	0.76	0.83	0.79	0.76	0.82	0.78	0.75	0.80	0.77	0.75	0.79	0.76	0.74	0.73
6	0.81	0.76	0.73	0.80	0.76	0.72	0.79	0.75	0.72	0.77	0.74	0.72	0.76	0.73	0.71	0.70
7	0.77	0.73	0.70	0.77	0.73	0.69	0.76	0.72	0.69	0.75	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	0.66	0.72	0.69	0.66	0.71	0.68	0.66	0.65
9	0.72	0.67	0.64	0.71	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.64	0.63
10	0.69	0.65	0.62	0.69	0.65	0.62	0.68	0.64	0.62	0.68	0.64	0.62	0.67	0.64	0.61	0.60



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	6093.09	5640.53	5131.26	4084.08	2455.52	1416.05	1021.30	622.14	301.16
45.0	6107.41	5800.19	5178.60	4146.30	2522.68	1378.61	1023.50	642.51	307.77
90.0	6062.81	5808.45	5277.16	4228.88	2668.58	1417.15	1026.58	676.09	120.13
135.0	6020.97	6063.36	5626.21	4835.60	3263.74	1642.33	1104.98	848.42	296.75
180.0	6093.09	6093.64	5577.21	4569.13	2832.10	1406.14	1046.57	787.36	197.76
225.0	6107.41	6009.41	5462.70	4392.40	2666.38	1363.20	1026.03	743.70	161.21
270.0	6062.81	5915.26	5426.36	4490.95	2843.66	1472.76	1045.52	758.13	293.45
315.0	6020.97	5685.67	5107.03	3905.15	2125.18	1281.71	987.99	510.26	55.61
360.0	6093.09	5640.53	5131.26	4084.08	2455.52	1416.05	1021.30	622.14	301.16
C/ $\gamma$ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	17.89	16.13	15.20	14.70	14.37	14.09	13.76	13.32	12.83
45.0	21.25	18.44	16.79	15.75	15.03	14.59	14.20	13.82	13.16
90.0	17.29	15.97	15.14	14.70	14.31	14.15	13.82	13.43	13.05
135.0	21.75	15.25	14.37	13.98	13.87	13.82	13.32	12.99	12.83
180.0	20.37	16.35	15.20	14.70	14.31	14.04	13.65	13.27	12.83
225.0	21.69	18.55	16.68	15.64	15.03	14.48	14.15	13.76	13.21
270.0	18.22	16.13	15.14	14.70	14.37	14.09	13.82	13.49	13.05
315.0	15.75	14.59	13.98	13.76	13.82	13.60	13.16	12.88	12.77
360.0	17.89	16.13	15.20	14.70	14.37	14.09	13.76	13.32	12.83
C/ $\gamma$ (°)	90.0								
0.0	12.66								
45.0	12.88								
90.0	12.88								
135.0	12.83								
180.0	12.66								
225.0	12.88								
270.0	12.88								
315.0	12.77								
360.0	12.66								