



NATA LIGHTNG CO.,LTD.
www.nata.cn
Email:info@nata.con
Tel:+86-750-3770000 Fax:+86-750-3771111
Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,Ching

Nata

LumCAT: 1-0915-S
Luminaire: 92.70.064.00
Report No: 220526-B008
Test No: 220526-C008
LampCAT: Samsung Samsung LED LCO6D3
Lamp flux(lm): 1605.2
Number of Lamps: 1
Length(mm): 43
Phm Type: C

Voltage(V): 35.4100
Current(A): 0.3810
Power (W): 13.4910
PF: 0.0000
Ballast type: DC
Width(mm): 43
Height(mm): 0

Photometric Results

Lumens(lm): 1247.67
Efficiency(%): 77.73%
Lumens(lm)/Power(W): 92.48
Central intensity(cd): 1698.476
Maximum intensity(cd): 1698.476
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=53.4
 [C90/270]Total=53.4
Field angle(10%Imax): [C0/180]Total=73.7
 [C90/270]Total=73.7
Maximum s/h(1/2): C0_180=0.86 C90_270=0.86
Maximum s/h(1/4): C0_180=0.80 C90_270=0.80
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 77.73%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.999%

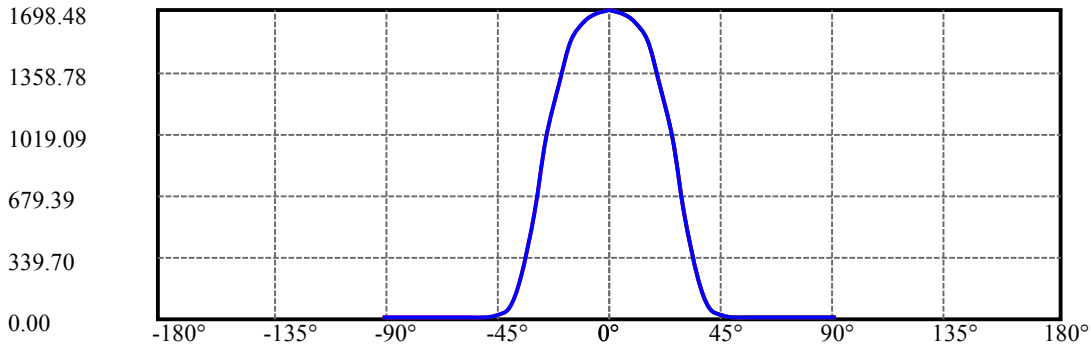
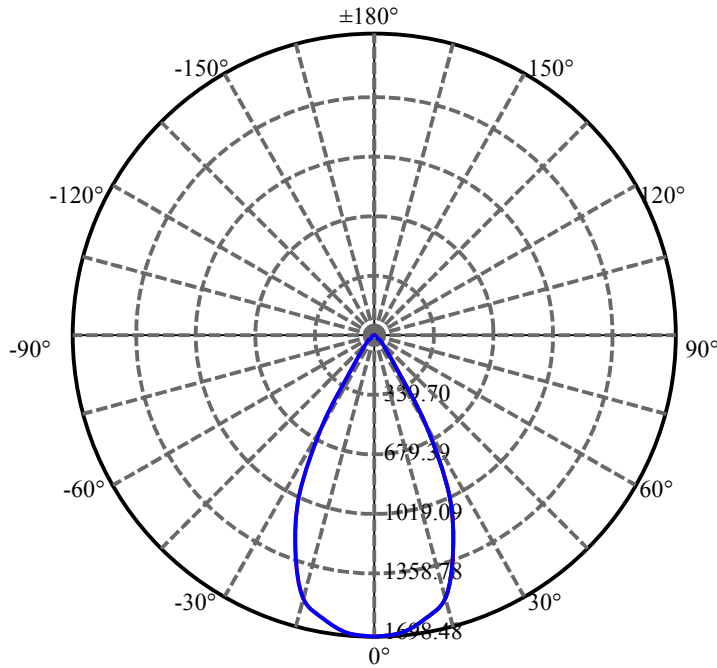
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1698.476	0.000	0	.000%	.000%
5.0	1680.625	40.396	40.396	2.517%	3.238%
10.0	1630.507	118.450	158.846	7.379%	12.731%
15.0	1531.317	187.557	346.403	11.684%	27.764%
20.0	1295.988	233.010	579.413	14.516%	46.440%
25.0	987.596	239.506	818.919	14.920%	65.636%
30.0	582.942	198.753	1017.672	12.382%	81.566%
35.0	233.925	120.289	1137.961	7.494%	91.207%
40.0	62.531	49.462	1187.422	3.081%	95.171%
45.0	25.970	16.387	1203.809	1.021%	96.485%
50.0	14.938	8.266	1212.075	.515%	97.147%
55.0	11.308	5.707	1217.782	.356%	97.605%
60.0	9.986	4.922	1222.704	.307%	97.999%
65.0	9.135	4.648	1227.353	.290%	98.372%
70.0	8.739	4.526	1231.878	.282%	98.735%
75.0	8.238	4.438	1236.316	.276%	99.090%
80.0	7.731	4.273	1240.589	.266%	99.433%
85.0	6.431	3.848	1244.437	.240%	99.741%
90.0	5.363	3.229	1247.666	.201%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1017.67	63.40%	81.57%
0-40	1187.42	73.97%	95.17%
0-60	1222.70	76.17%	98.00%
0-90	1244.44	77.52%	99.74%
0-120	1244.44	77.52%	99.74%
0-180	1247.67	77.73%	100.00%
60-90	26.65	1.66%	2.14%
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%
0-29.51	998.13	62.18%	80.00%

ZONAL LUMEN SUMMARY

0-10	158.85
10-20	420.57
20-30	438.26
30-40	169.75
40-50	24.65
50-60	10.63
60-70	9.17
70-80	8.71
80-90	3.85
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: —————

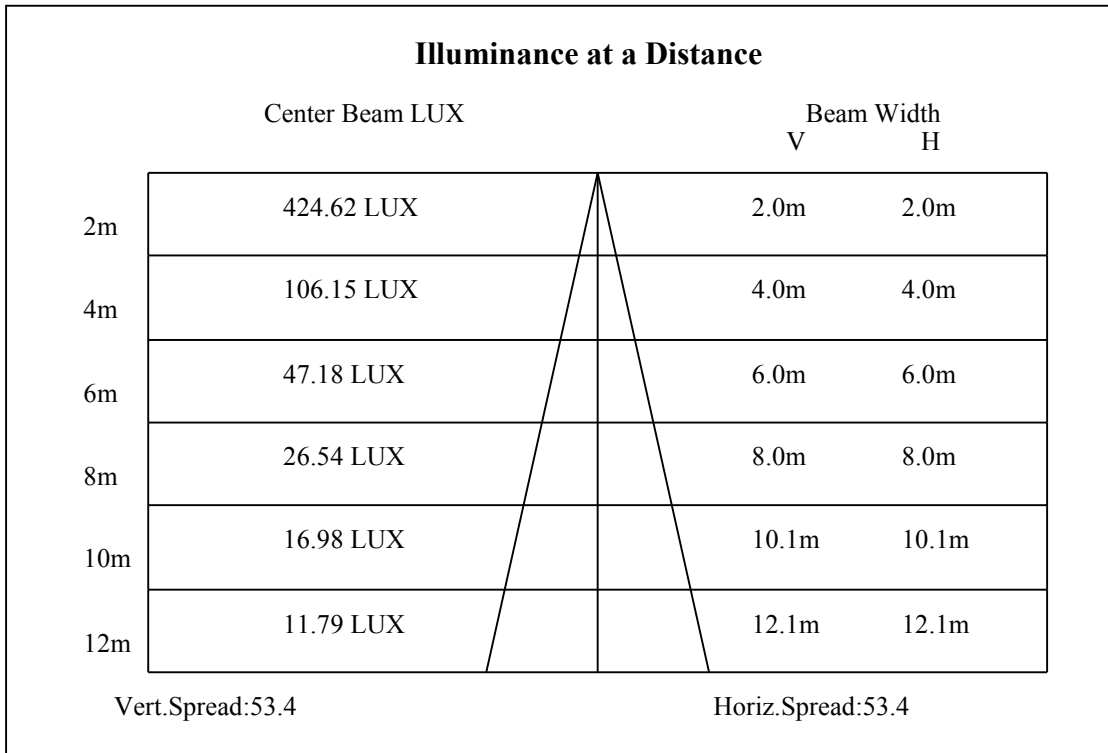
C90/C270: —————

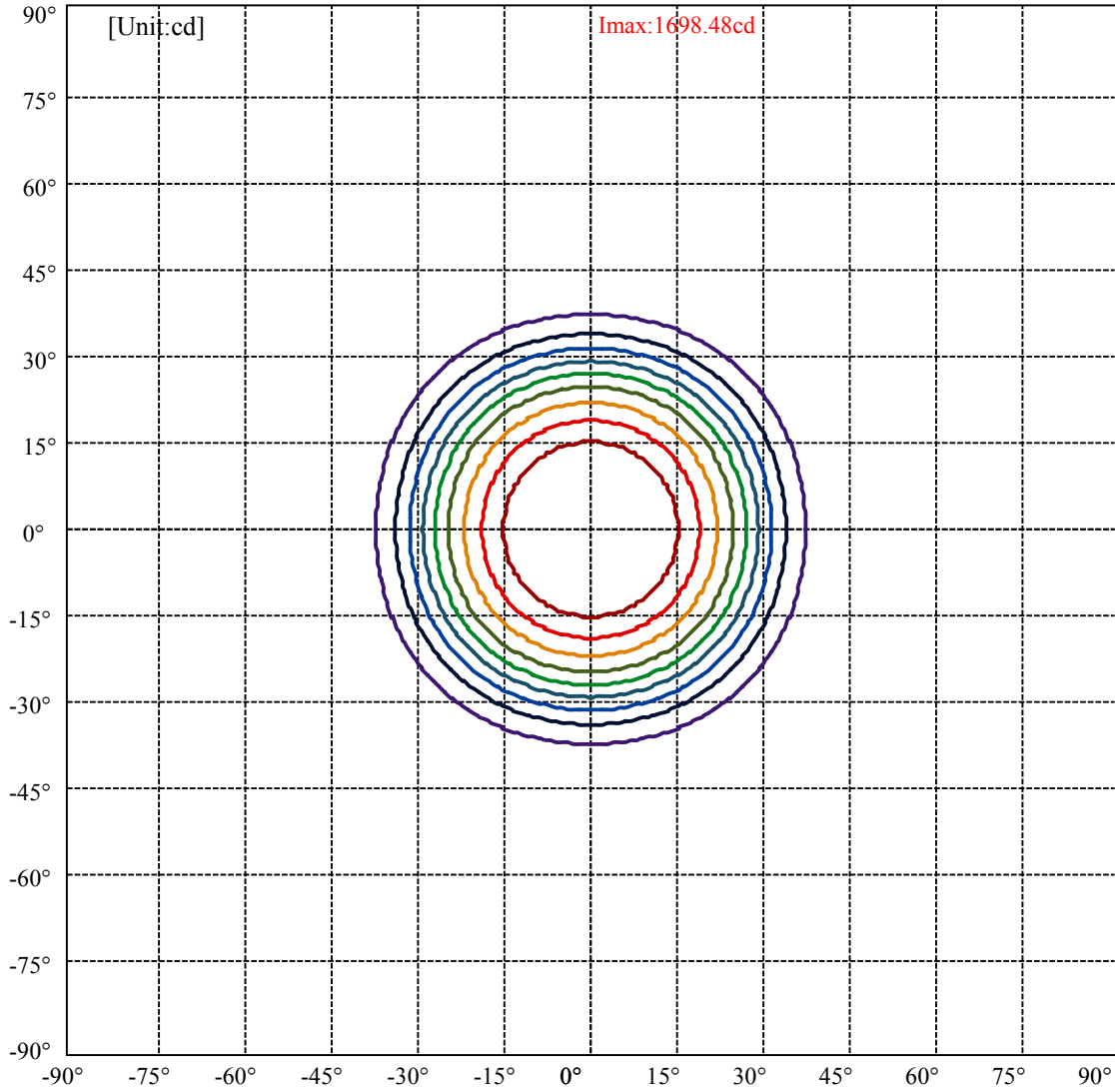
Field angle(10%Imax):C0/180Left:36.9 Right:36.9

:C90/270Left:36.9 Right:36.9

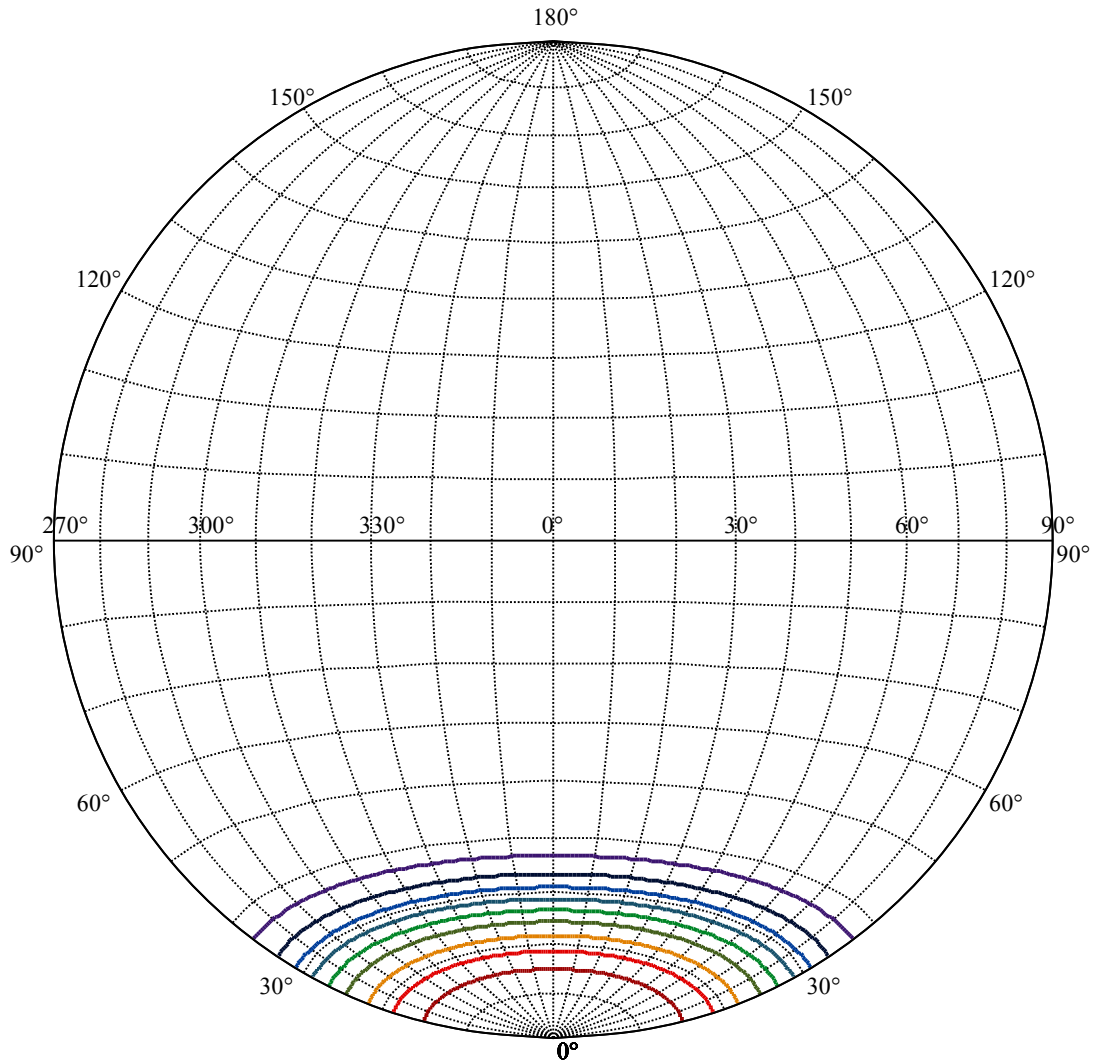
Beam Angle(50%Imax):C0/180Left:26.7 Right:26.7

:C90/270Left:26.7 Right:26.7





(10%Imax) 169.848	—
(20%Imax) 339.695	—
(30%Imax) 509.543	—
(40%Imax) 679.391	—
(50%Imax) 849.238	—
(60%Imax) 1019.09	—
(70%Imax) 1188.93	—
(80%Imax) 1358.78	—
(90%Imax) 1528.63	—



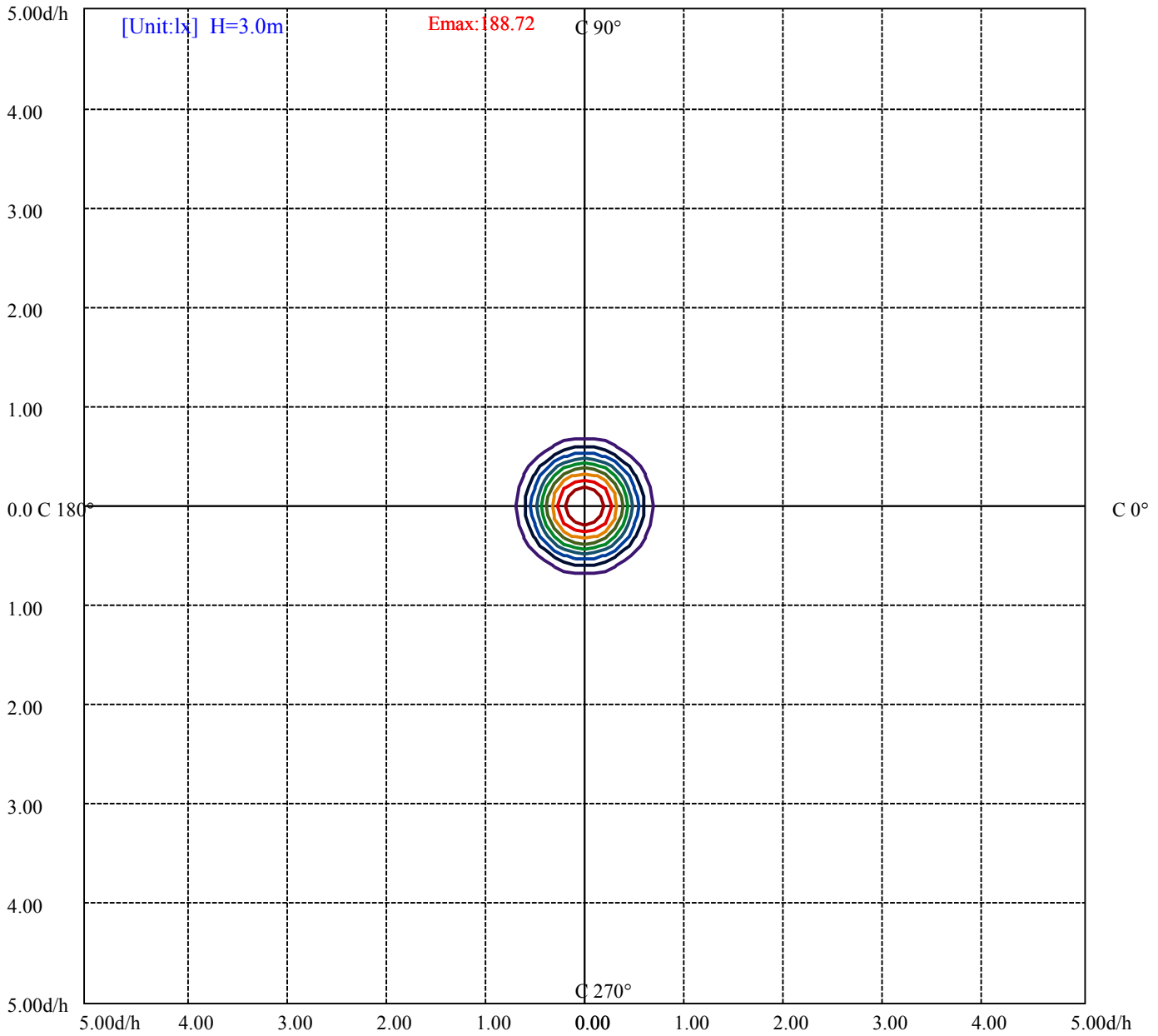
House

[Unit:cd]

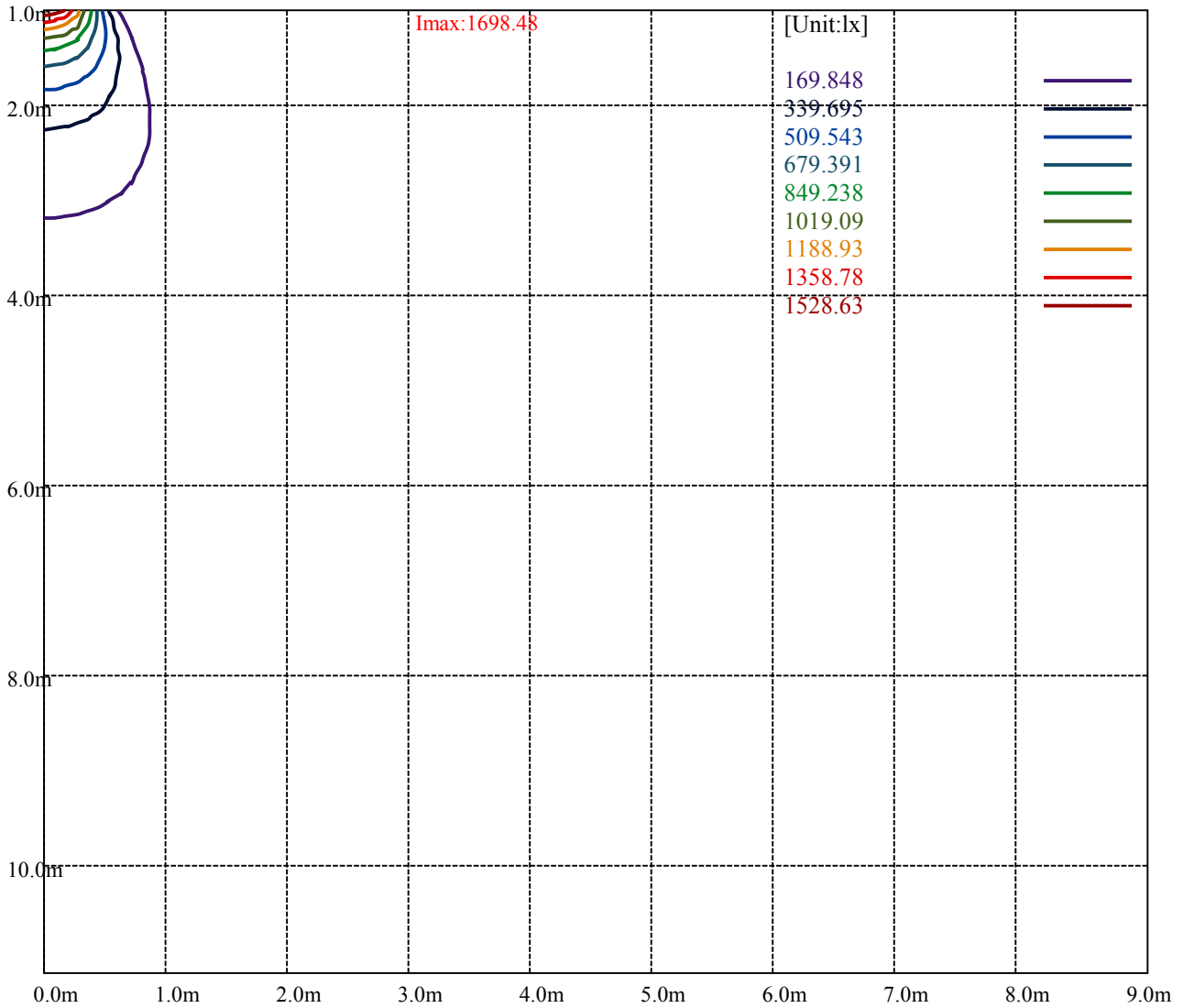
Road

I_{max}:1698.48

(10%I _{max}) 169.848	—
(20%I _{max}) 339.695	—
(30%I _{max}) 509.543	—
(40%I _{max}) 679.391	—
(50%I _{max}) 849.238	—
(60%I _{max}) 1019.09	—
(70%I _{max}) 1188.93	—
(80%I _{max}) 1358.78	—
(90%I _{max}) 1528.63	—



- (10%Emax) 18.872
- (20%Emax) 37.74389
- (30%Emax) 56.61589
- (40%Emax) 75.48778
- (50%Emax) 94.35977
- (60%Emax) 113.2322
- (70%Emax) 132.1033
- (80%Emax) 150.9756
- (90%Emax) 169.8478



Luminance Table

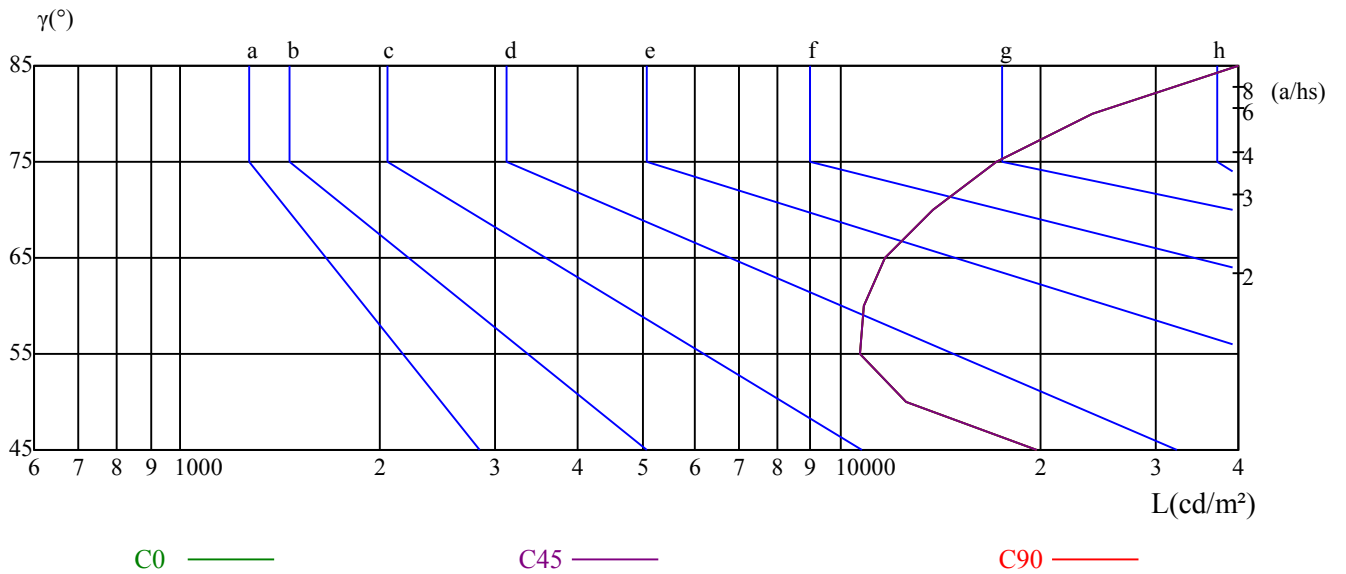
γ	45	50	55	60	65	70	75	80	85
C0	19863	12569	10663	10802	11690	13819	17215	24077	39906
C45	19863	12569	10663	10802	11690	13819	17215	24077	39906
C90	19863	12569	10663	10802	11690	13819	17215	24077	39906

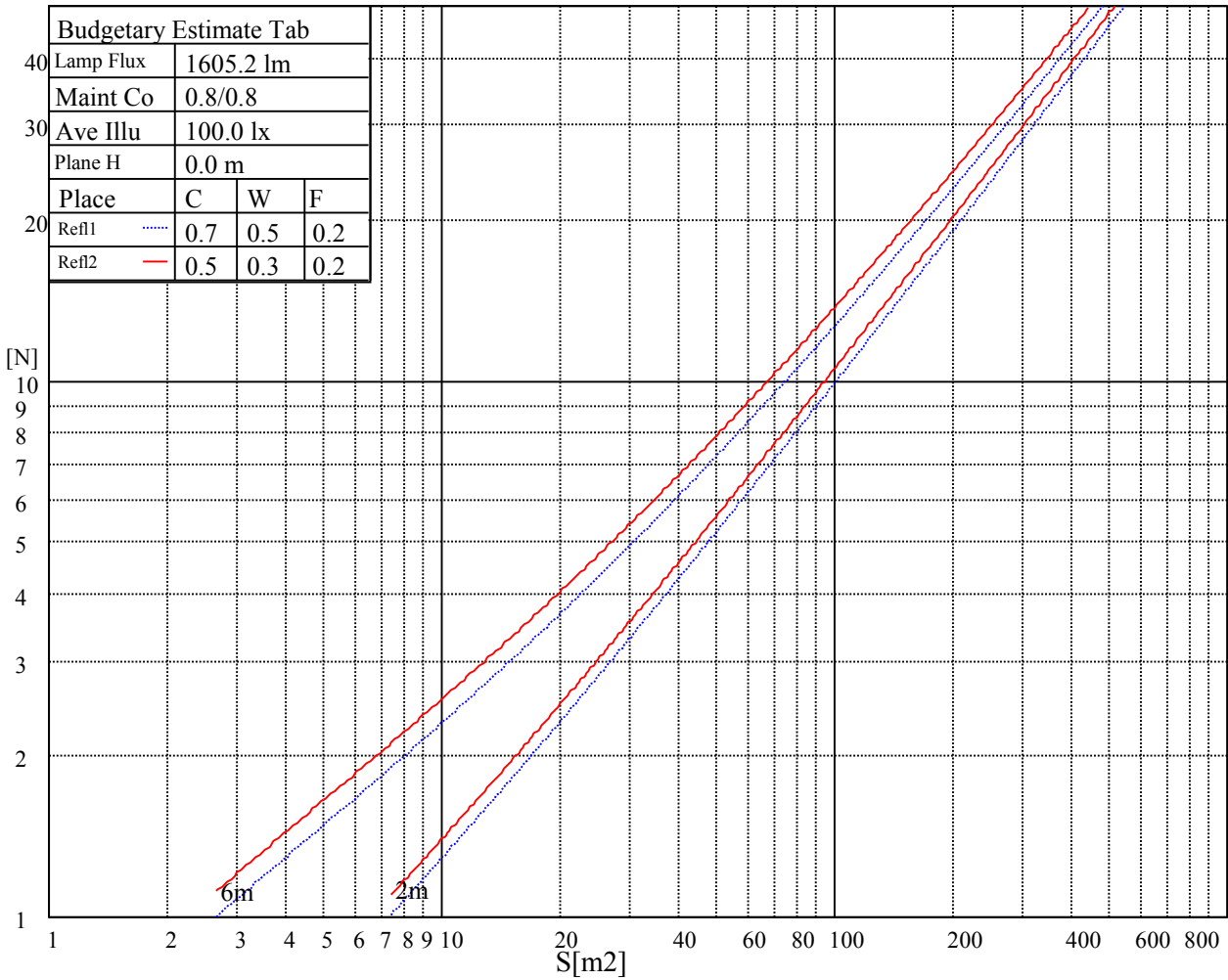
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
11690	11690	11690	17215	17215	17215	39906	39906	39906

Glare Table

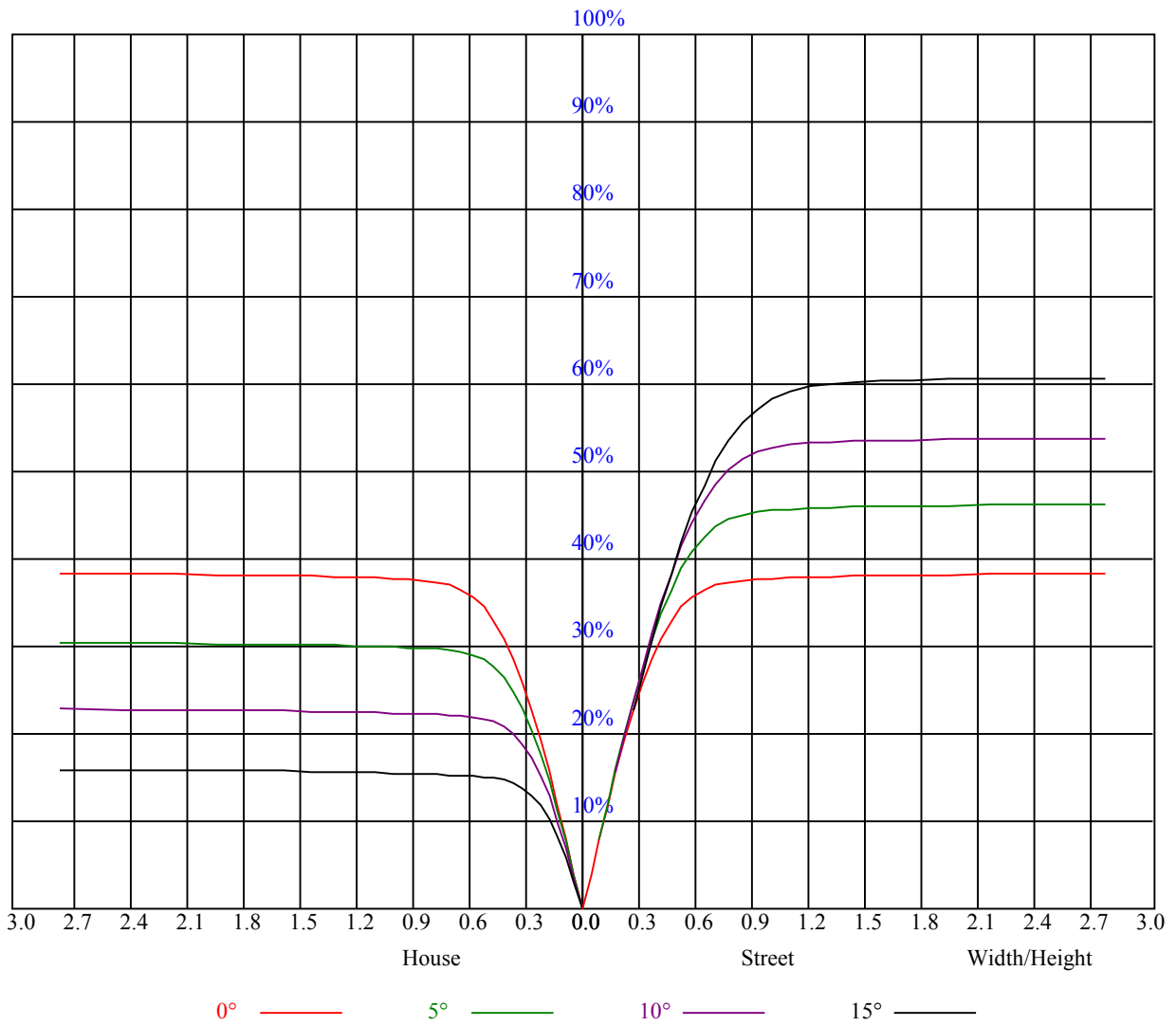
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.93	0.93	0.93	0.90	0.90	0.90	0.86	0.86	0.86	0.83	0.83	0.83	0.79	0.79	0.79	0.78
1	0.86	0.84	0.82	0.84	0.83	0.81	0.81	0.80	0.79	0.78	0.77	0.76	0.76	0.75	0.74	0.73
2	0.80	0.77	0.75	0.79	0.76	0.74	0.77	0.74	0.72	0.74	0.72	0.71	0.72	0.71	0.69	0.68
3	0.75	0.72	0.69	0.74	0.71	0.68	0.72	0.70	0.67	0.71	0.68	0.66	0.69	0.67	0.65	0.64
4	0.71	0.67	0.64	0.70	0.66	0.63	0.69	0.65	0.63	0.67	0.64	0.62	0.66	0.63	0.61	0.60
5	0.67	0.63	0.60	0.66	0.62	0.59	0.65	0.61	0.59	0.64	0.61	0.58	0.62	0.60	0.58	0.57
6	0.63	0.59	0.56	0.63	0.59	0.56	0.62	0.58	0.55	0.61	0.57	0.55	0.60	0.57	0.55	0.53
7	0.60	0.56	0.53	0.59	0.55	0.52	0.59	0.55	0.52	0.58	0.54	0.52	0.57	0.54	0.52	0.51
8	0.57	0.53	0.50	0.56	0.52	0.49	0.56	0.52	0.49	0.55	0.52	0.49	0.54	0.51	0.49	0.48
9	0.54	0.50	0.47	0.54	0.50	0.47	0.53	0.49	0.47	0.52	0.49	0.47	0.52	0.49	0.46	0.45
10	0.52	0.47	0.44	0.51	0.47	0.44	0.51	0.47	0.44	0.50	0.47	0.44	0.49	0.46	0.44	0.43



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	1692.80	1686.23	1635.44	1535.65	1367.15	1070.77	671.62	312.51	77.68
45.0	1704.15	1679.65	1625.28	1534.45	1330.70	954.25	525.83	210.75	52.88
90.0	1699.37	1669.50	1601.98	1483.07	1189.50	896.71	474.14	132.23	48.70
135.0	1697.58	1674.87	1618.11	1506.37	1286.48	955.45	556.30	314.30	59.63
180.0	1692.80	1674.87	1624.08	1520.11	1178.33	919.18	515.97	149.98	47.26
225.0	1704.15	1695.79	1666.51	1590.62	1414.35	1057.15	656.03	244.81	71.88
270.0	1699.37	1688.62	1656.35	1579.87	1422.72	1104.23	724.21	318.48	83.77
315.0	1697.58	1675.47	1616.32	1500.40	1178.69	943.02	539.45	188.34	58.44
360.0	1692.80	1686.23	1635.44	1535.65	1367.15	1070.77	671.62	312.51	77.68
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	29.76	16.37	12.07	10.58	9.62	9.14	8.72	8.31	7.35
45.0	24.62	15.54	11.77	10.40	9.74	9.32	8.78	8.07	5.74
90.0	22.17	13.68	11.17	10.10	9.20	8.66	8.13	7.53	5.62
135.0	24.44	14.16	10.82	9.50	8.66	8.19	7.77	7.29	5.92
180.0	20.67	12.85	10.40	9.50	8.78	8.25	7.77	7.35	5.74
225.0	27.49	15.60	11.35	9.92	9.02	8.60	8.13	7.71	7.23
270.0	31.61	15.83	11.47	10.10	9.26	8.60	8.07	7.65	6.99
315.0	27.01	15.48	11.41	9.80	8.78	9.14	8.54	7.95	6.87
360.0	29.76	16.37	12.07	10.58	9.62	9.14	8.72	8.31	7.35
C/ γ (°)	90.0								
0.0	5.44								
45.0	5.26								
90.0	5.32								
135.0	5.26								
180.0	5.26								
225.0	5.56								
270.0	5.50								
315.0	5.32								
360.0	5.44								