



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: 92.70.185.00	
Report No: 220525-B009	Voltage(V): 35.9500
Test No: 220525-C009	Current(A): 0.2280
LampCAT: CREE CXA1517	Power (W): 8.1960
Lamp flux(lm): 915.1	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 43	Width(mm): 43
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 699.97
Efficiency(%): 76.49%
Lumens(lm)/Power(W): 85.40
Central intensity(cd): 962.694
Maximum intensity(cd): 962.694
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=53.0
 [C90/270]Total=53.0
Field angle(10%Imax): [C0/180]Total=71.6
 [C90/270]Total=71.6
Maximum s/h(1/2): C0_180=0.86 C90_270=0.86
Maximum s/h(1/4): C0_180=0.79 C90_270=0.79
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 76.49%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.618%

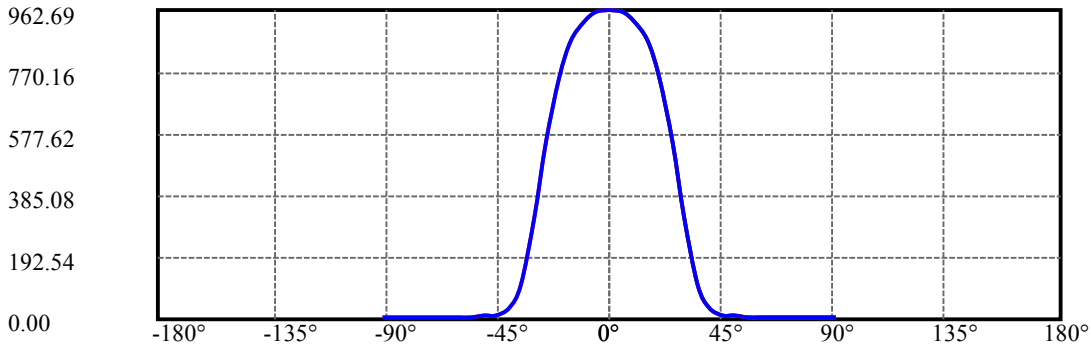
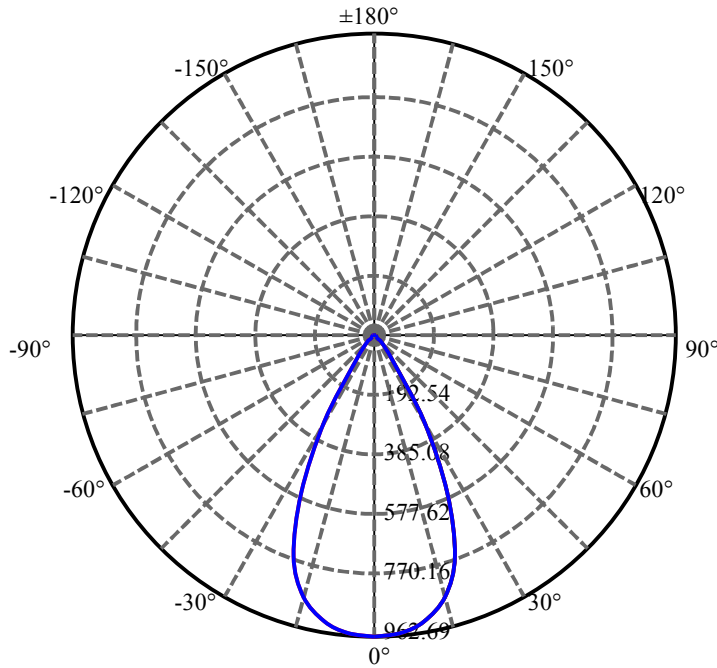
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	962.694	0.000	0	.000%	.000%
5.0	955.494	22.931	22.931	2.506%	3.276%
10.0	925.565	67.291	90.223	7.353%	12.890%
15.0	865.207	106.227	196.45	11.608%	28.066%
20.0	751.213	133.216	329.666	14.557%	47.097%
25.0	552.035	136.687	466.353	14.936%	66.625%
30.0	316.959	109.972	576.325	12.017%	82.336%
35.0	107.832	62.553	638.878	6.835%	91.272%
40.0	33.932	23.652	662.53	2.585%	94.651%
45.0	14.393	8.948	671.478	.978%	95.930%
50.0	9.157	4.759	676.237	.520%	96.609%
55.0	7.596	3.643	679.879	.398%	97.130%
60.0	7.170	3.413	683.293	.373%	97.618%
65.0	6.408	3.301	686.594	.361%	98.089%
70.0	5.893	3.115	689.708	.340%	98.534%
75.0	5.460	2.968	692.676	.324%	98.958%
80.0	5.139	2.836	695.512	.310%	99.363%
85.0	4.108	2.513	698.024	.275%	99.722%
90.0	2.995	1.945	699.969	.213%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	576.32	62.98%	82.34%
0-40	662.53	72.40%	94.65%
0-60	683.29	74.67%	97.62%
0-90	698.02	76.28%	99.72%
0-120	698.02	76.28%	99.72%
0-180	699.97	76.49%	100.00%
60-90	18.15	1.98%	2.59%
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%
0-29.26	559.98	61.19%	80.00%

ZONAL LUMEN SUMMARY

0-10	90.22
10-20	239.44
20-30	246.66
30-40	86.21
40-50	13.71
50-60	7.06
60-70	6.42
70-80	5.80
80-90	2.51
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: ———

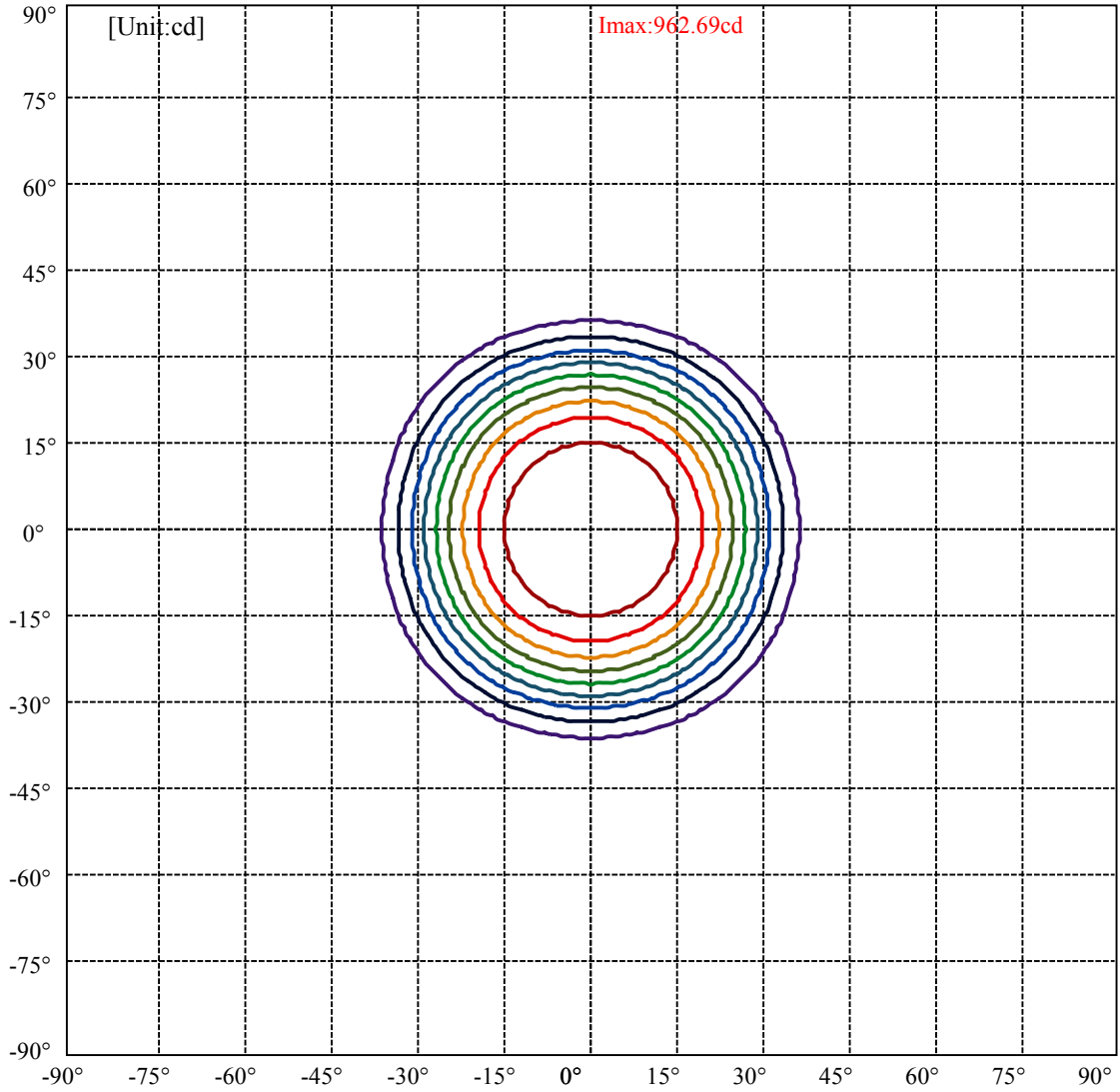
C90/C270: ———

Field angle(10%Imax):C0/180Left:35.8 Right:35.8

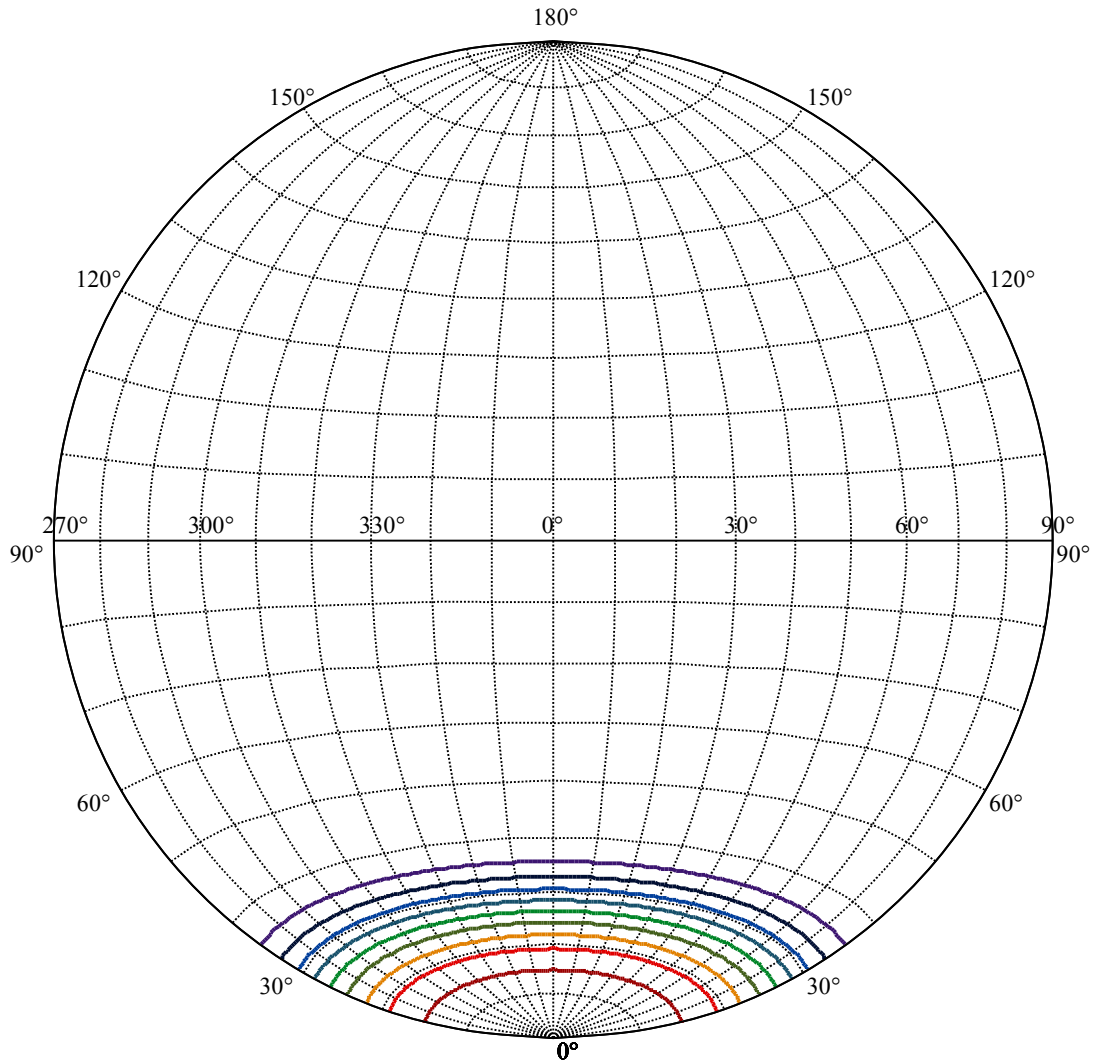
:C90/270Left:35.8 Right:35.8

Beam Angle(50%Imax):C0/180Left:26.5 Right:26.5

:C90/270Left:26.5 Right:26.5



(10%Imax) 96.2694	—
(20%Imax) 192.539	—
(30%Imax) 288.808	—
(40%Imax) 385.078	—
(50%Imax) 481.347	—
(60%Imax) 577.616	—
(70%Imax) 673.886	—
(80%Imax) 770.155	—
(90%Imax) 866.424	—



House

[Unit:cd]

Road

Imax:962.69

(10%Imax) 96.2694

(20%Imax) 192.539

(30%Imax) 288.808

(40%Imax) 385.078

(50%Imax) 481.347

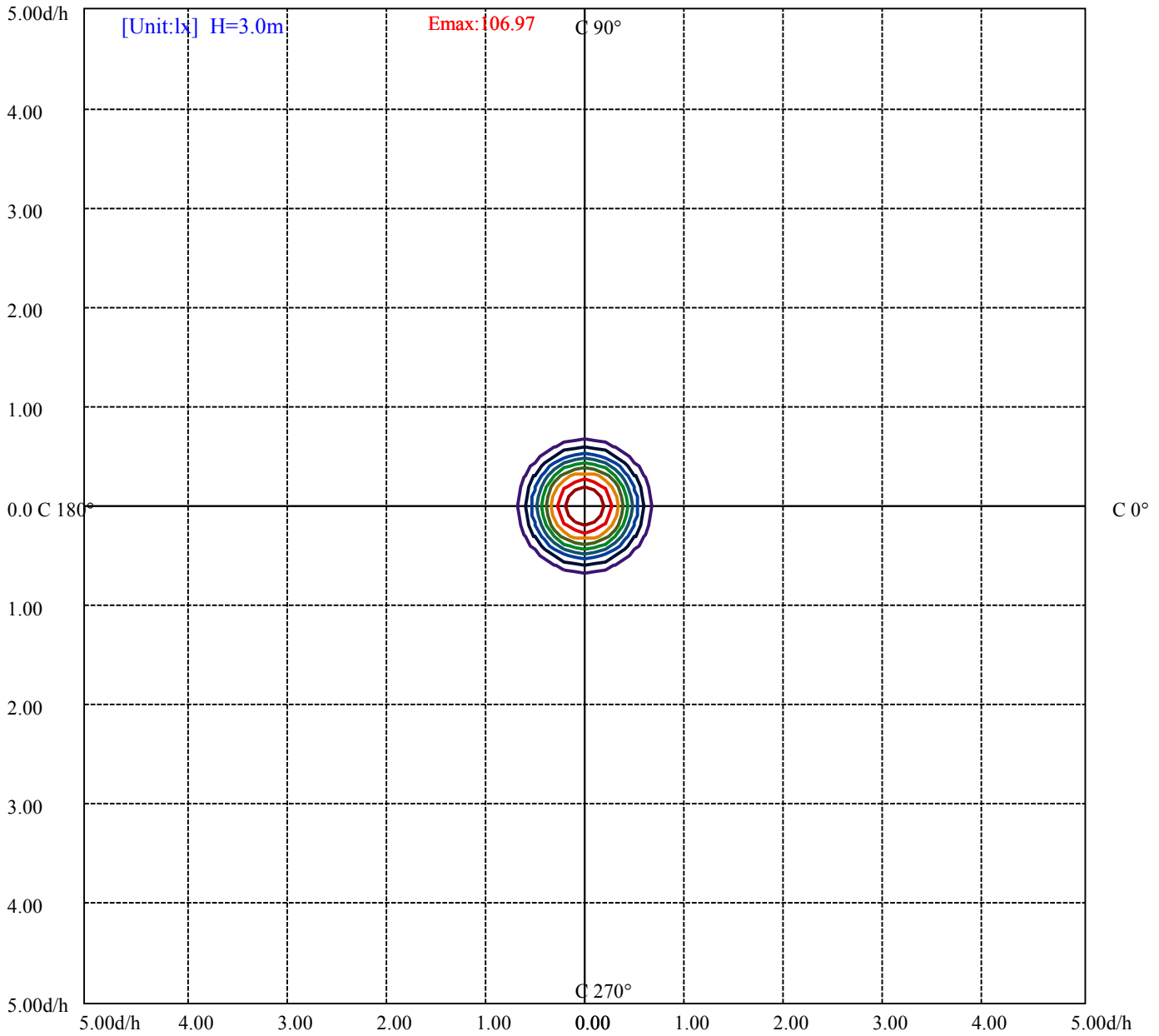
(60%Imax) 577.616

(70%Imax) 673.886

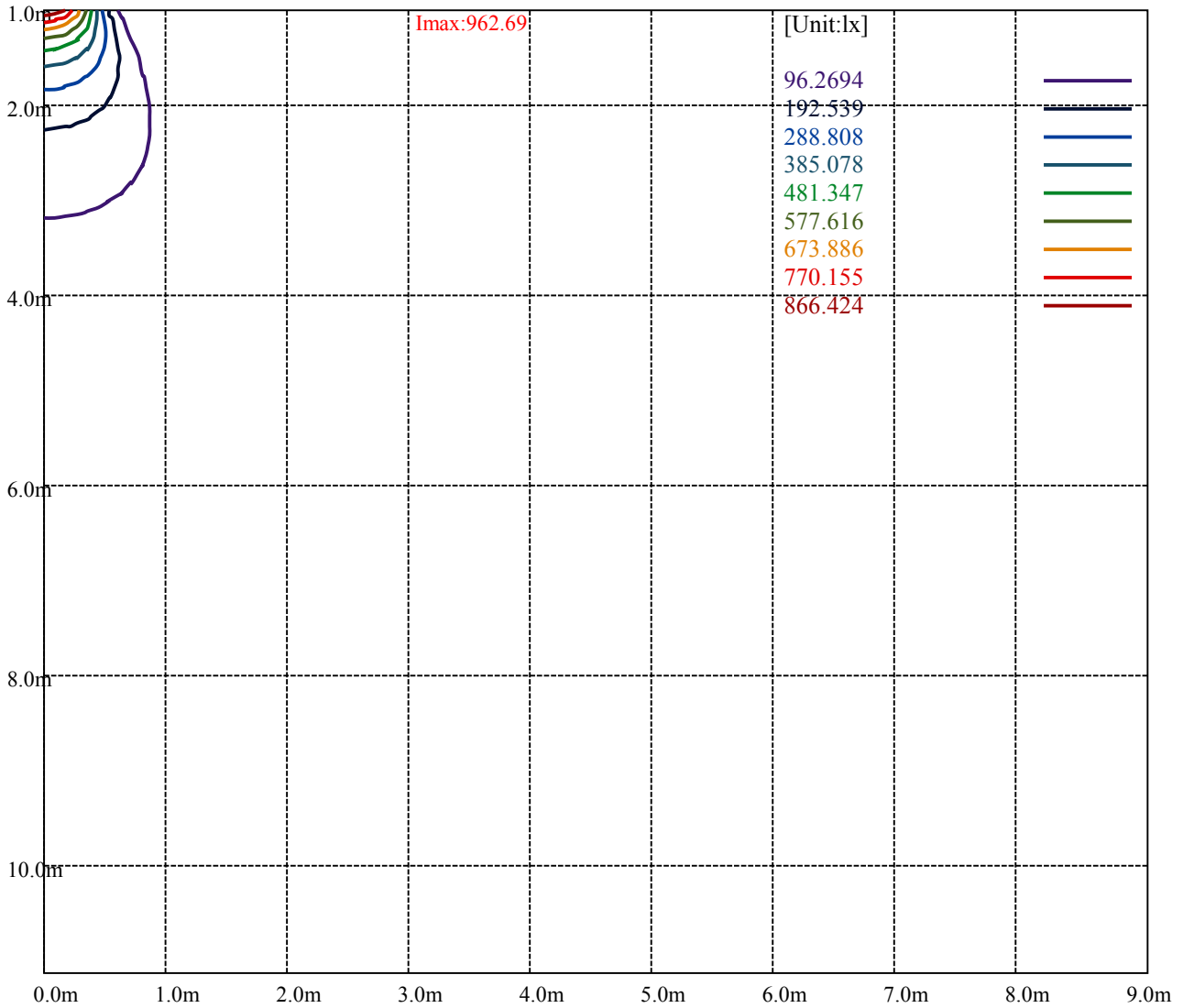
(80%Imax) 770.155

(90%Imax) 866.424





(10%Emax) 10.6966	—
(20%Emax) 21.39322	—
(30%Emax) 32.08978	—
(40%Emax) 42.78633	—
(50%Emax) 53.483	—
(60%Emax) 64.17956	—
(70%Emax) 74.87622	—
(80%Emax) 85.57278	—
(90%Emax) 96.26933	—



Luminance Table

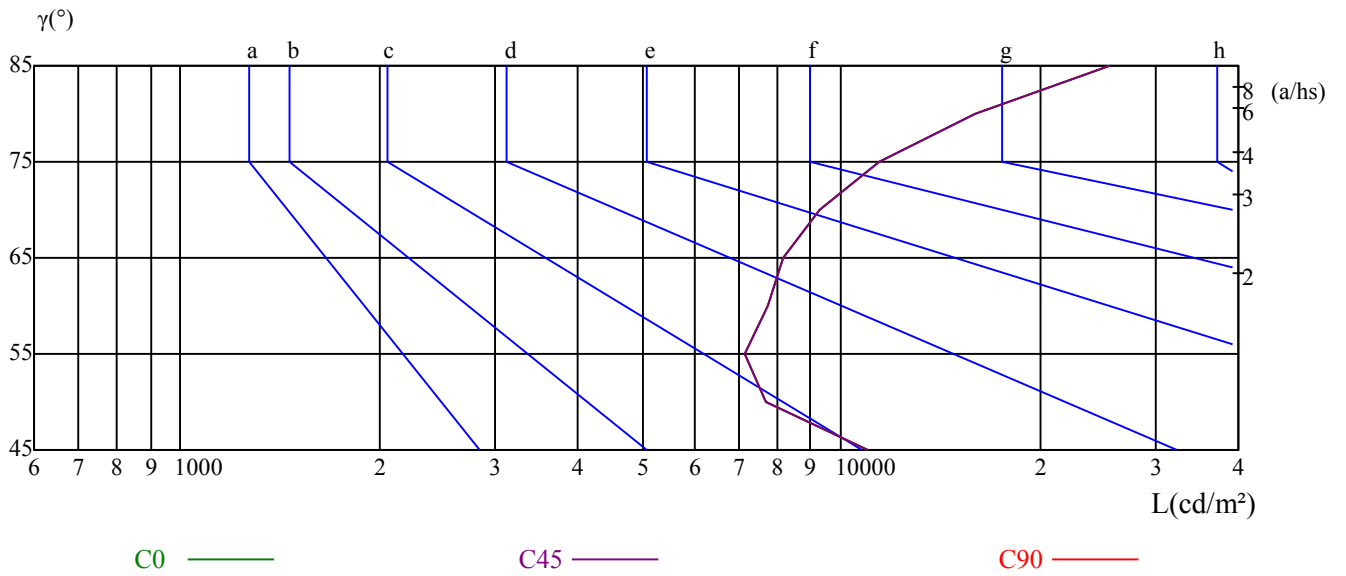
γ	45	50	55	60	65	70	75	80	85
C0	11009	7705	7162	7756	8201	9319	11409	16005	25492
C45	11009	7705	7162	7756	8201	9319	11409	16005	25492
C90	11009	7705	7162	7756	8201	9319	11409	16005	25492

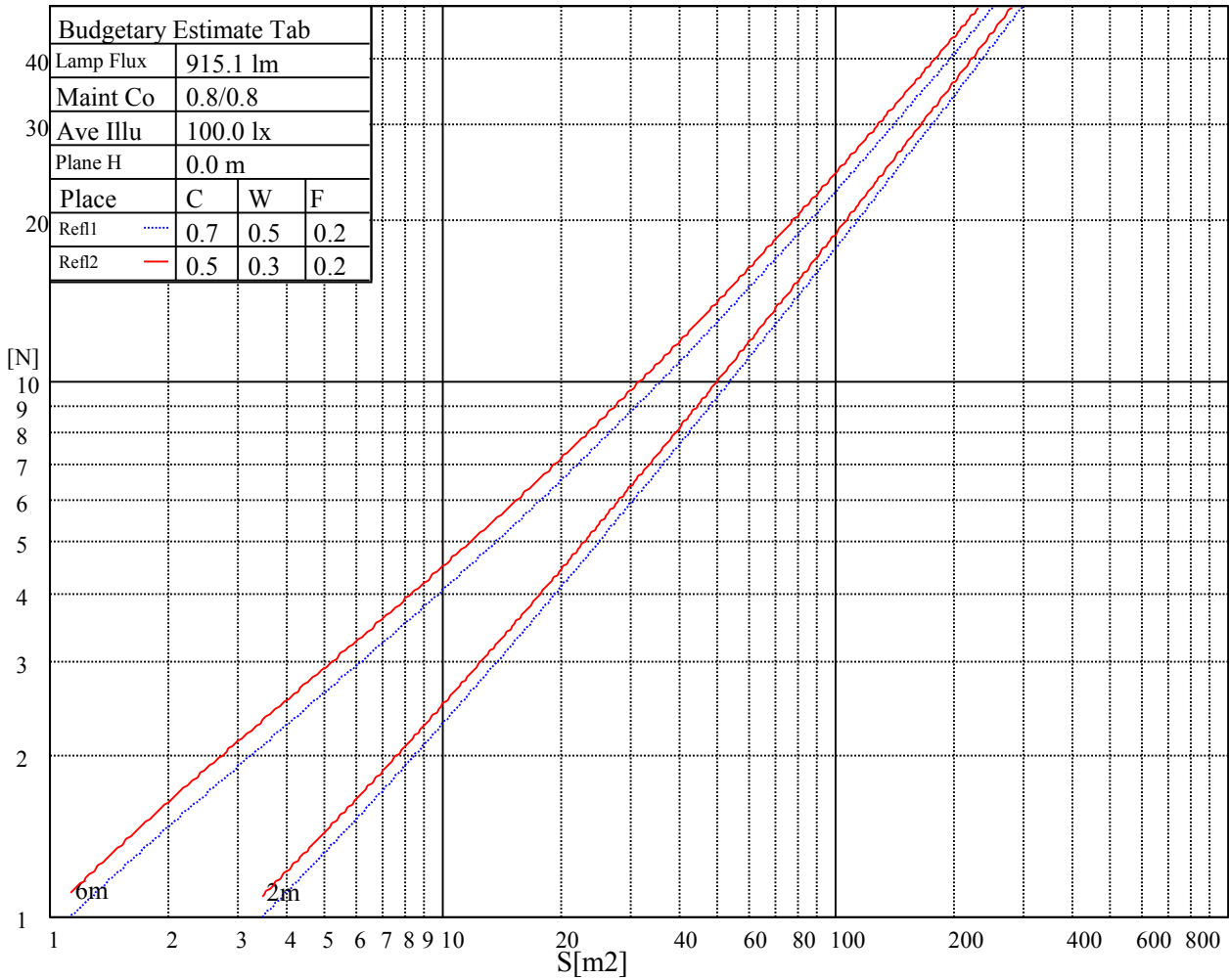
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
8201	8201	8201	11409	11409	11409	25492	25492	25492

Glare Table

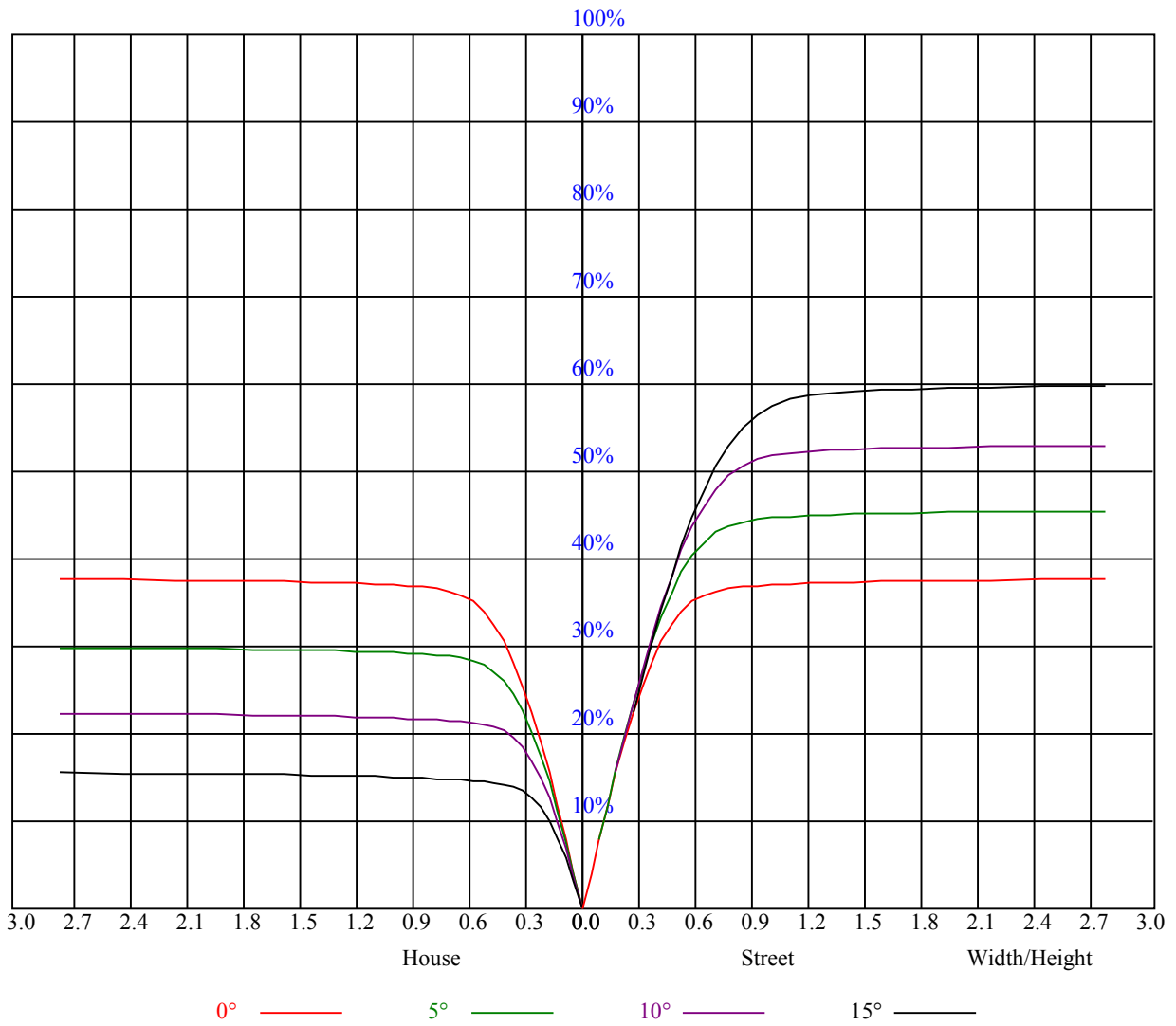
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.91	0.91	0.91	0.89	0.89	0.89	0.85	0.85	0.85	0.81	0.81	0.81	0.78	0.78	0.78	0.76
1	0.85	0.83	0.81	0.83	0.81	0.80	0.80	0.79	0.77	0.77	0.76	0.75	0.74	0.74	0.73	0.71
2	0.79	0.76	0.74	0.78	0.75	0.73	0.75	0.73	0.71	0.73	0.71	0.70	0.71	0.70	0.68	0.67
3	0.74	0.71	0.68	0.73	0.70	0.67	0.71	0.68	0.66	0.69	0.67	0.65	0.68	0.66	0.64	0.63
4	0.70	0.66	0.63	0.69	0.65	0.62	0.67	0.64	0.62	0.66	0.63	0.61	0.64	0.62	0.60	0.59
5	0.66	0.62	0.59	0.65	0.61	0.58	0.64	0.60	0.58	0.63	0.60	0.57	0.61	0.59	0.57	0.56
6	0.62	0.58	0.55	0.62	0.58	0.55	0.61	0.57	0.54	0.60	0.56	0.54	0.59	0.56	0.54	0.53
7	0.59	0.55	0.52	0.59	0.55	0.52	0.58	0.54	0.51	0.57	0.54	0.51	0.56	0.53	0.51	0.50
8	0.56	0.52	0.49	0.56	0.52	0.49	0.55	0.51	0.49	0.54	0.51	0.48	0.53	0.50	0.48	0.47
9	0.53	0.49	0.46	0.53	0.49	0.46	0.52	0.49	0.46	0.52	0.48	0.46	0.51	0.48	0.46	0.45
10	0.51	0.47	0.44	0.51	0.47	0.44	0.50	0.46	0.44	0.49	0.46	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	962.08	961.60	936.75	898.21	819.57	645.75	420.24	178.18	50.01
45.0	964.23	954.37	922.41	865.70	756.65	551.70	323.98	97.58	31.25
90.0	961.48	941.77	904.48	826.50	679.63	464.64	242.72	67.58	24.50
135.0	962.98	950.19	914.82	848.37	731.79	524.81	279.82	79.35	26.11
180.0	962.08	954.13	922.47	850.46	705.26	476.77	225.57	60.29	21.45
225.0	964.23	962.44	941.17	890.80	771.71	573.21	330.67	99.37	32.51
270.0	961.48	961.66	936.45	881.83	781.45	607.81	367.06	153.15	44.64
315.0	962.98	957.78	925.99	859.78	763.64	571.60	345.61	127.15	40.99
360.0	962.08	961.60	936.75	898.21	819.57	645.75	420.24	178.18	50.01
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	18.70	10.82	7.83	6.75	6.15	5.74	5.38	5.14	4.72
45.0	14.58	9.50	7.41	6.45	5.74	5.44	5.08	4.72	3.82
90.0	12.07	8.25	7.29	7.23	6.09	5.68	5.32	4.96	3.17
135.0	12.49	8.84	7.89	7.59	6.57	5.98	5.68	5.38	3.29
180.0	10.82	8.07	7.47	6.93	6.33	5.80	5.32	4.96	3.17
225.0	13.86	8.90	7.41	7.41	6.57	6.09	5.38	5.02	4.66
270.0	16.85	9.14	7.71	7.83	7.47	6.45	5.86	5.50	5.02
315.0	15.77	9.74	7.77	7.17	6.33	5.98	5.68	5.44	5.02
360.0	18.70	10.82	7.83	6.75	6.15	5.74	5.38	5.14	4.72
C/γ(°)	90.0								
0.0	3.11								
45.0	2.93								
90.0	2.93								
135.0	2.93								
180.0	2.99								
225.0	2.99								
270.0	3.05								
315.0	3.05								
360.0	3.11								