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Nata

LumCAT: 2-1742-M	
Luminaire: 92.70.136.00	
Report No: NT2017082604	Voltage(V): 36.7000
Test No: GC2017082604	Current(A): 1.0000
LampCAT: CREE CXA3050	Power (W): 36.7000
Lamp flux(lm): 3994.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 70	Width(mm): 70
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 3492.40
Efficiency(%): 87.44%
Lumens(lm)/Power(W): 95.16
Central intensity(cd): 6203.893
Maximum intensity(cd): 6203.893
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=42.4
 [C90/270]Total=42.4
Field angle(10%Imax): [C0/180]Total=73.4
 [C90/270]Total=73.4
Maximum s/h(1/2): C0_180=0.69 C90_270=0.69
Maximum s/h(1/4): C0_180=0.67 C90_270=0.67
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 87.44%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.687%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2017/8/26
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.42

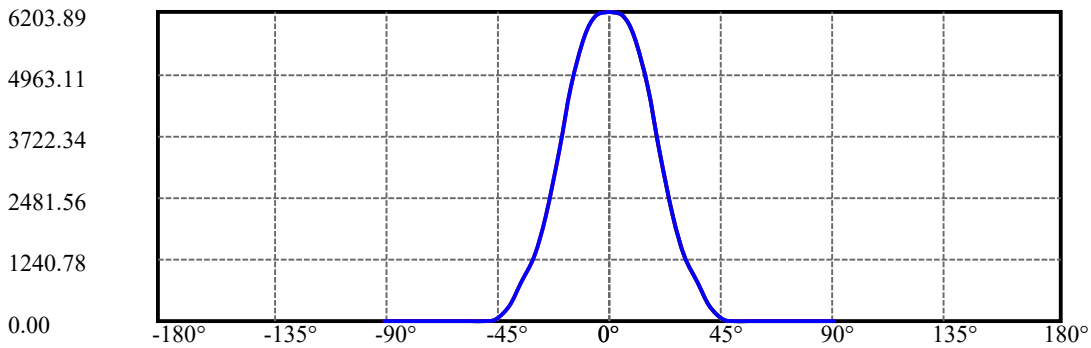
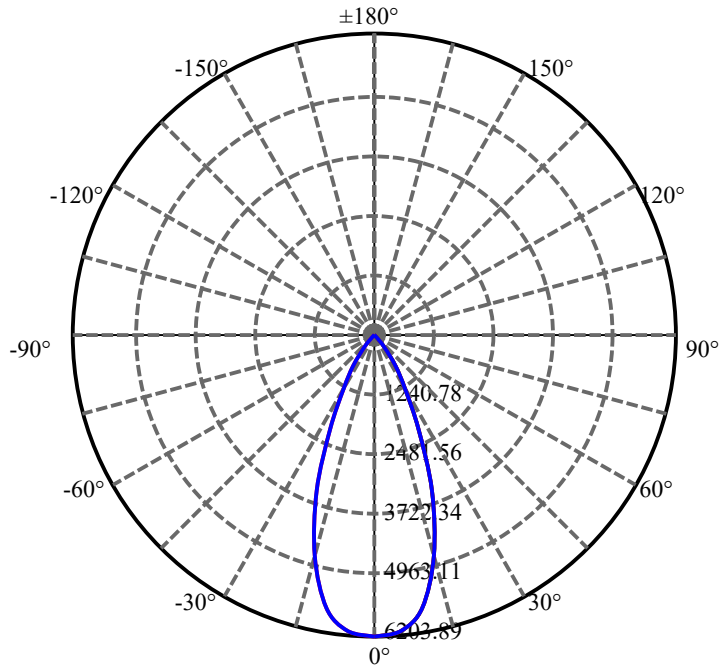
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	6203.893	0.000	0	.000%	.000%
5.0	6121.102	147.342	147.342	3.689%	4.219%
10.0	5691.180	422.563	569.904	10.580%	16.318%
15.0	4695.072	616.105	1186.01	15.426%	33.960%
20.0	3413.566	668.266	1854.275	16.732%	53.095%
25.0	2120.635	580.436	2434.711	14.533%	69.715%
30.0	1292.353	431.916	2866.627	10.814%	82.082%
35.0	771.443	303.908	3170.536	7.609%	90.784%
40.0	321.516	182.352	3352.888	4.566%	96.005%
45.0	39.331	66.814	3419.701	1.673%	97.918%
50.0	18.389	11.663	3431.365	.292%	98.252%
55.0	16.744	7.639	3439.004	.191%	98.471%
60.0	15.815	7.526	3446.53	.188%	98.687%
65.0	15.175	7.534	3454.063	.189%	98.902%
70.0	14.803	7.591	3461.654	.190%	99.120%
75.0	14.466	7.651	3469.304	.192%	99.339%
80.0	14.260	7.686	3476.991	.192%	99.559%
85.0	14.143	7.718	3484.708	.193%	99.780%
90.0	13.943	7.690	3492.398	.193%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2866.63	71.77%	82.08%
0-40	3352.89	83.95%	96.01%
0-60	3446.53	86.29%	98.69%
0-90	3484.71	87.25%	99.78%
0-120	3484.71	87.25%	99.78%
0-180	3492.40	87.44%	100.00%
60-90	45.70	1.14%	1.31%
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%
0-29.16	2793.92	69.95%	80.00%

ZONAL LUMEN SUMMARY

0-10	569.90
10-20	1284.37
20-30	1012.35
30-40	486.26
40-50	78.48
50-60	15.16
60-70	15.12
70-80	15.34
80-90	7.72
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



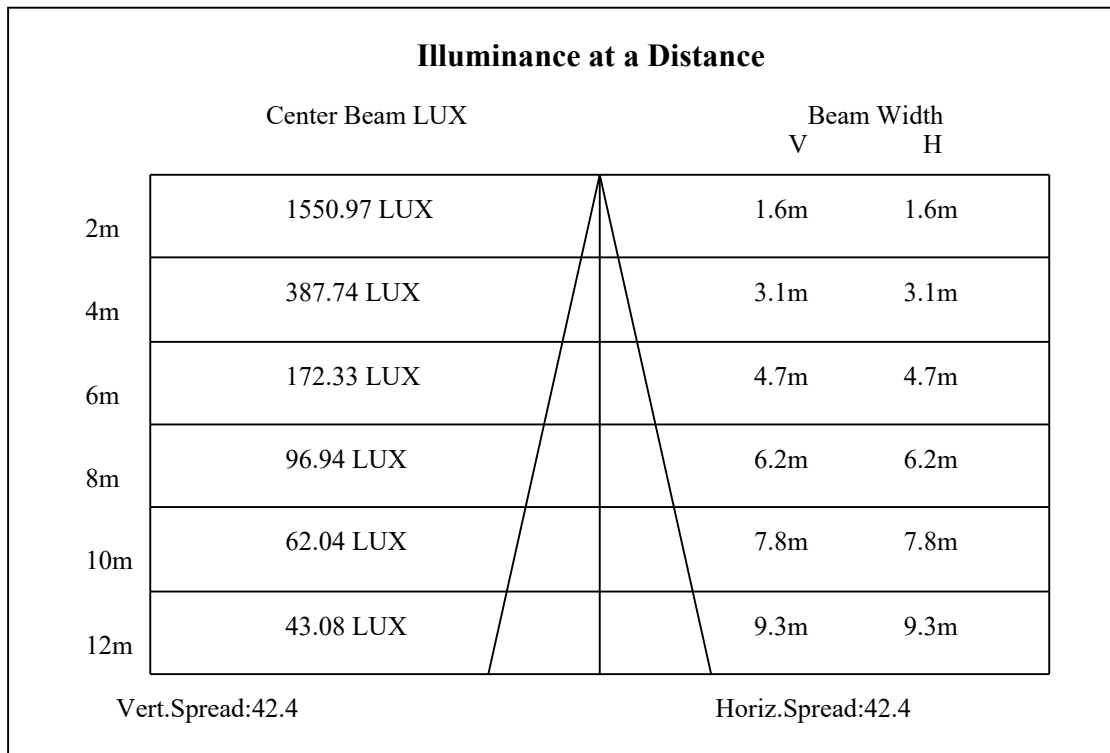
C0(Max): —————

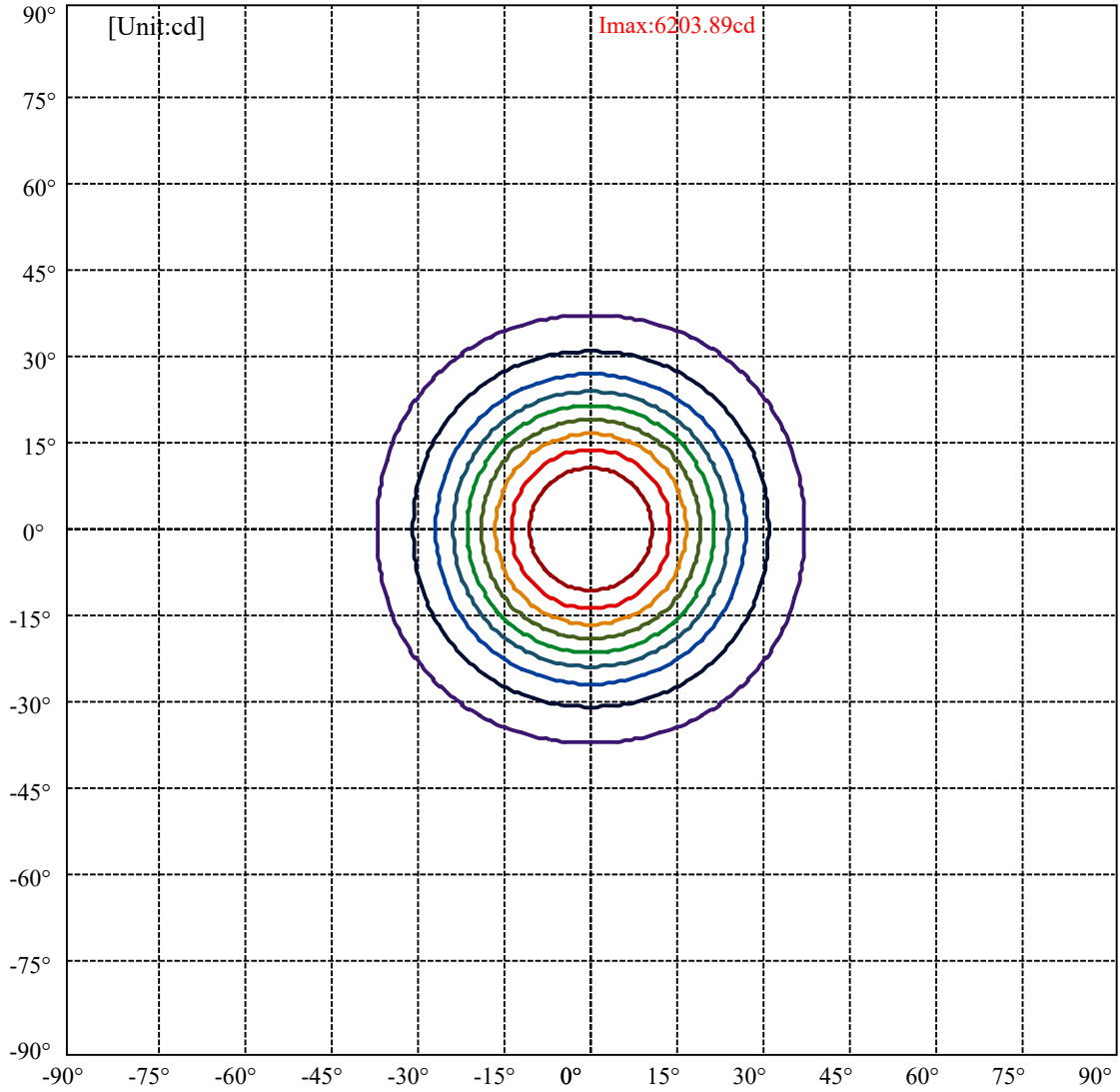
C0/C180: —————

C90/C270: —————

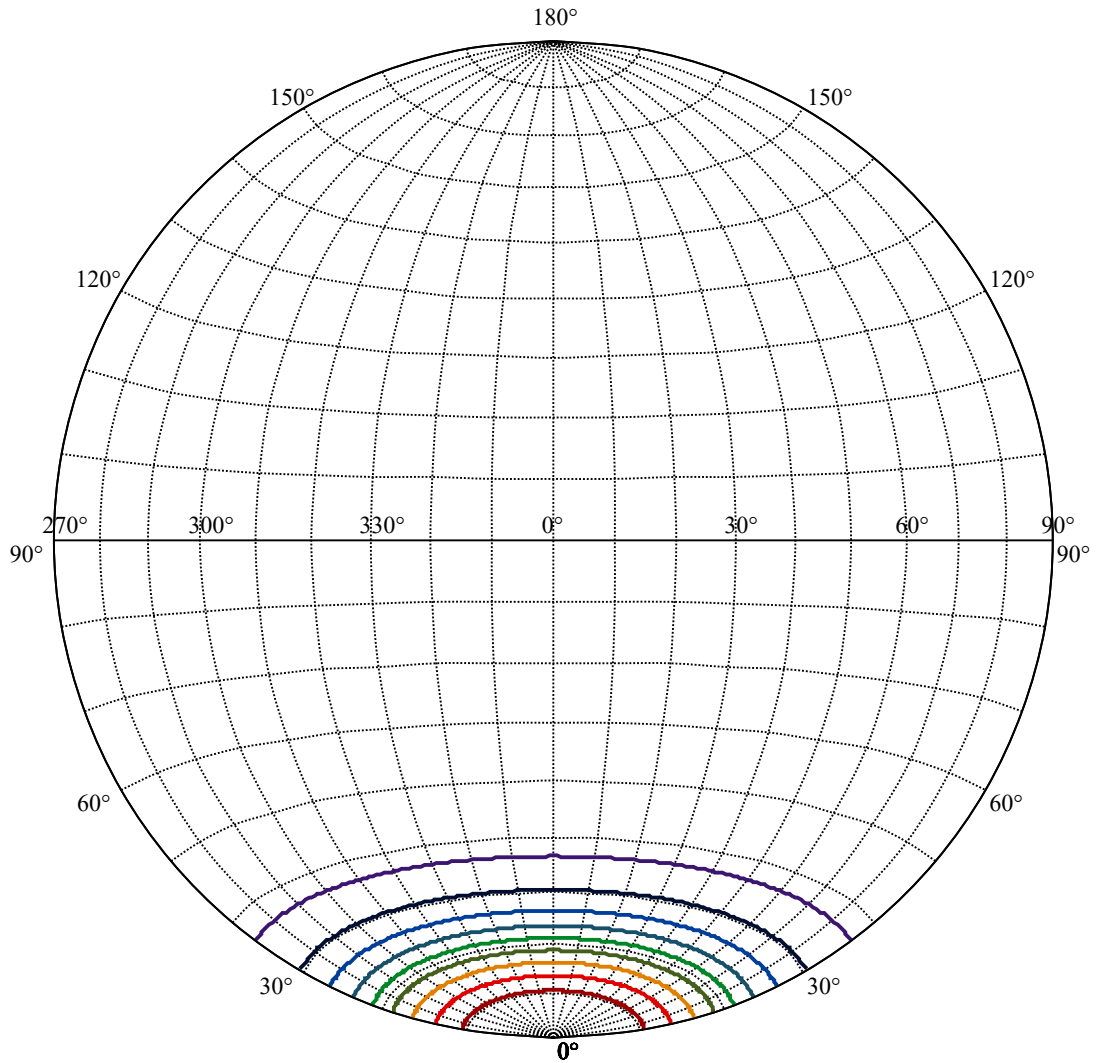
Field angle(10%Imax):C0/180Left:36.7 Right:36.7
:C90/270Left:36.7 Right:36.7

Beam Angle(50%Imax):C0/180Left:21.2 Right:21.2
:C90/270Left:21.2 Right:21.2





(10%Imax) 620.389	—
(20%Imax) 1240.78	—
(30%Imax) 1861.17	—
(40%Imax) 2481.56	—
(50%Imax) 3101.95	—
(60%Imax) 3722.34	—
(70%Imax) 4342.72	—
(80%Imax) 4963.11	—
(90%Imax) 5583.5	—



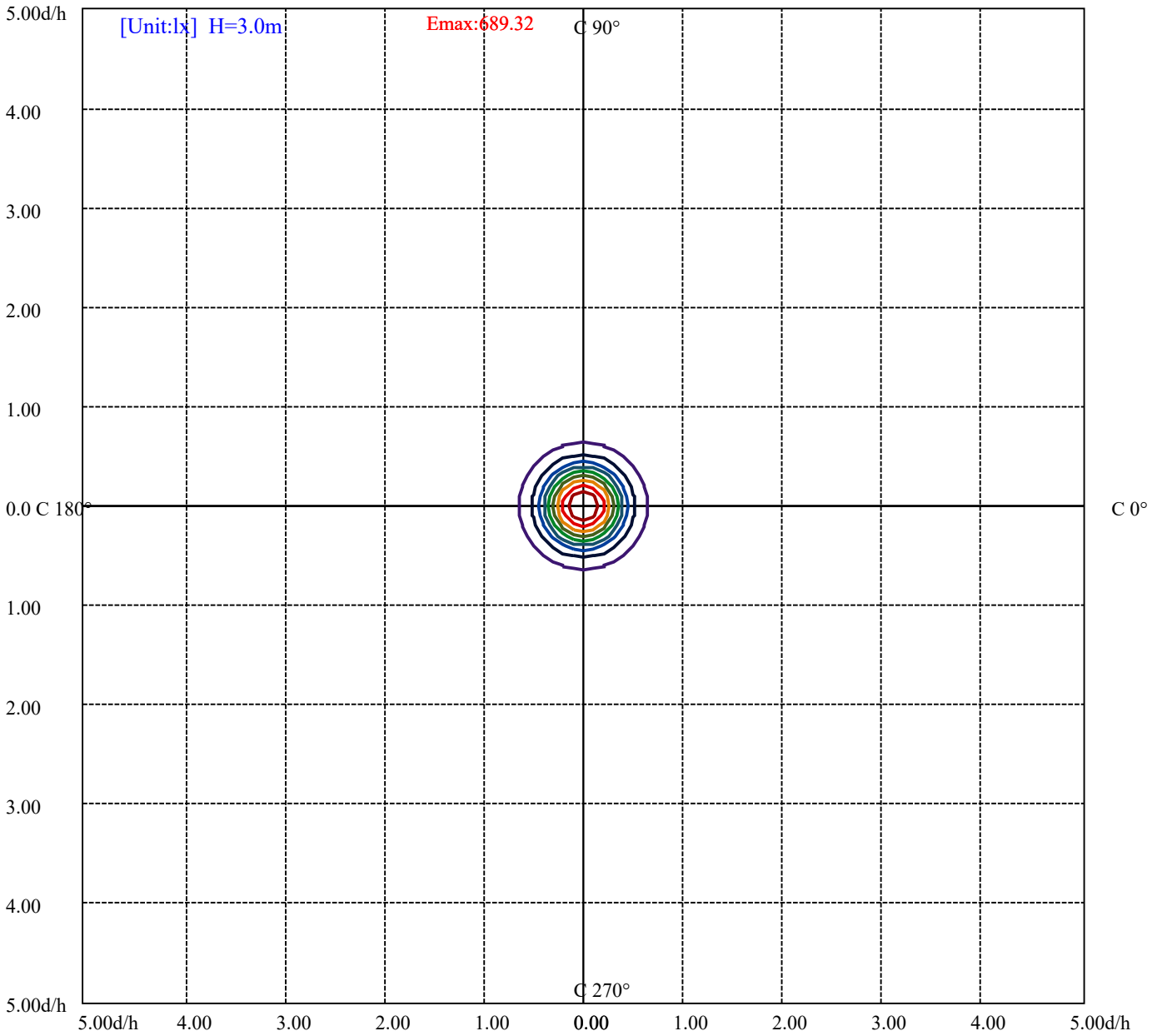
House

[Unit:cd]

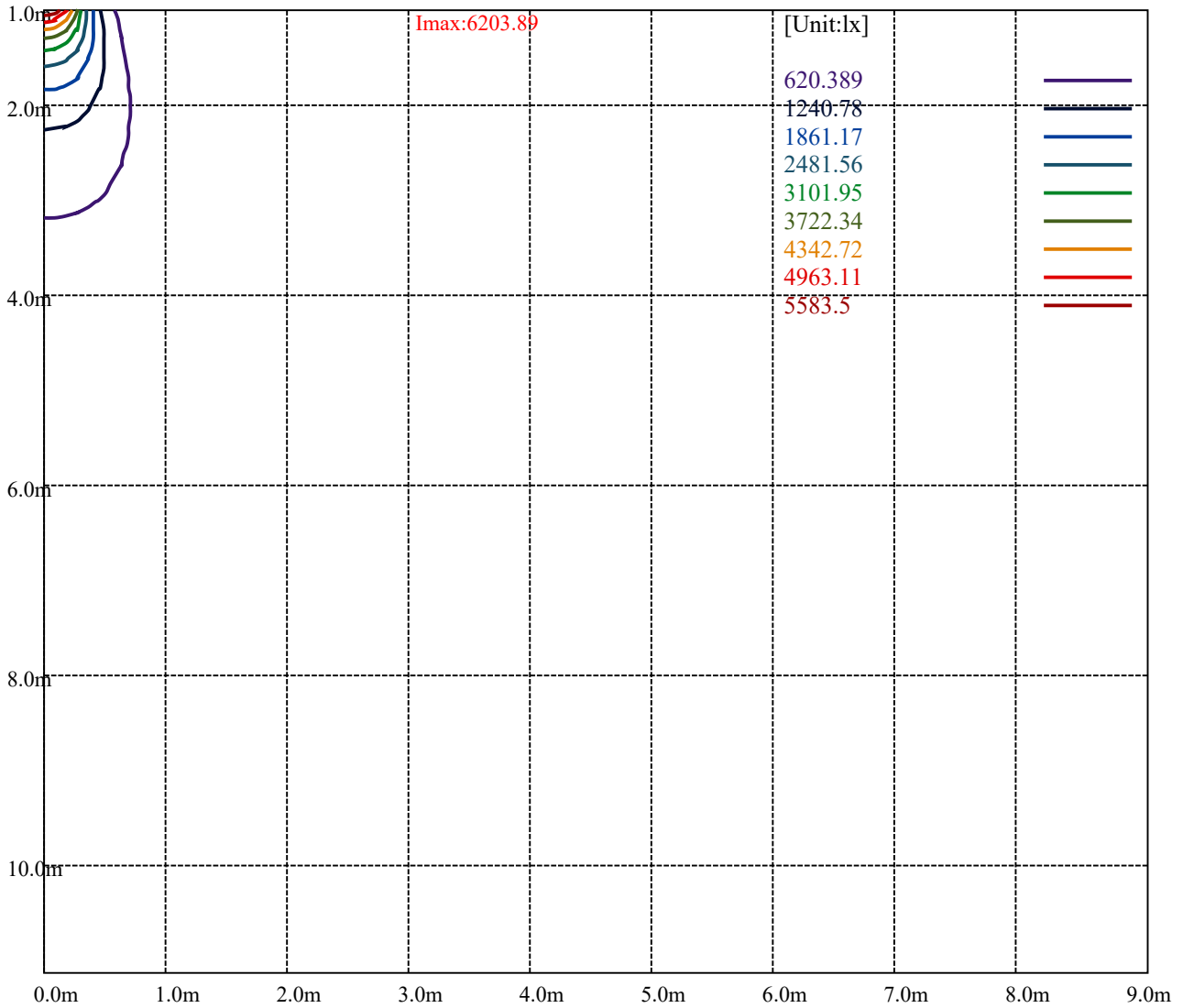
Road

Imax:6203.89

(10%Imax)	620.389	—
(20%Imax)	1240.78	—
(30%Imax)	1861.17	—
(40%Imax)	2481.56	—
(50%Imax)	3101.95	—
(60%Imax)	3722.34	—
(70%Imax)	4342.72	—
(80%Imax)	4963.11	—
(90%Imax)	5583.5	—



- (10%Emax) 68.93211
- (20%Emax) 137.8644
- (30%Emax) 206.7967
- (40%Emax) 275.7289
- (50%Emax) 344.6611
- (60%Emax) 413.5922
- (70%Emax) 482.5245
- (80%Emax) 551.4567
- (90%Emax) 620.3889



Luminance Table

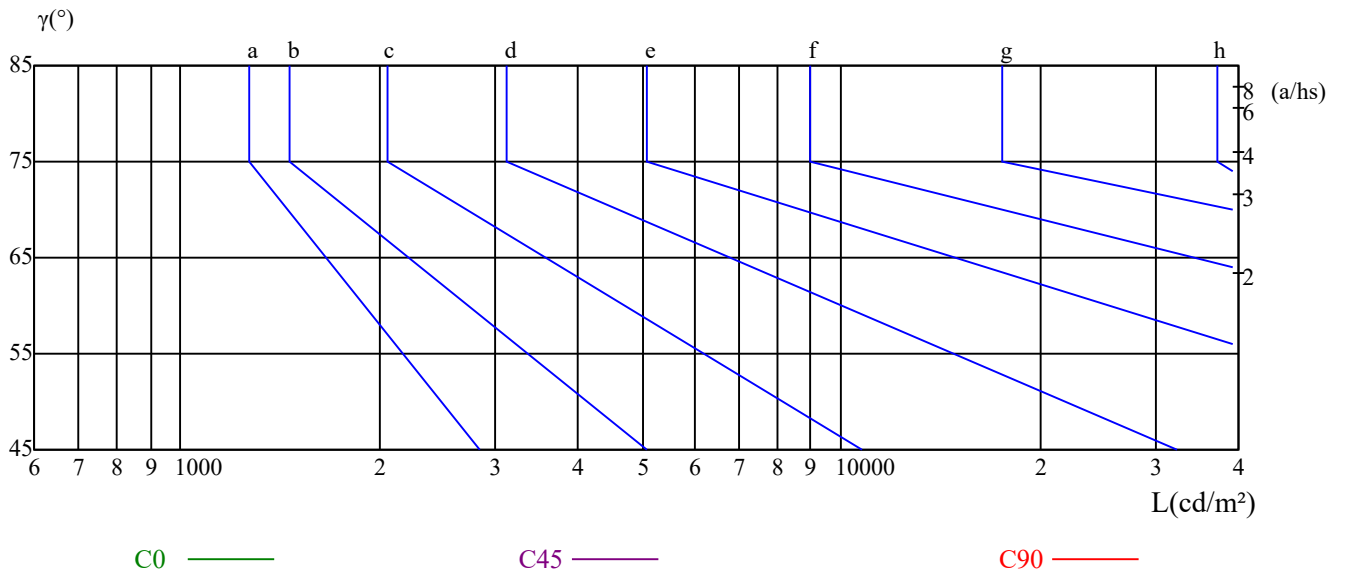
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

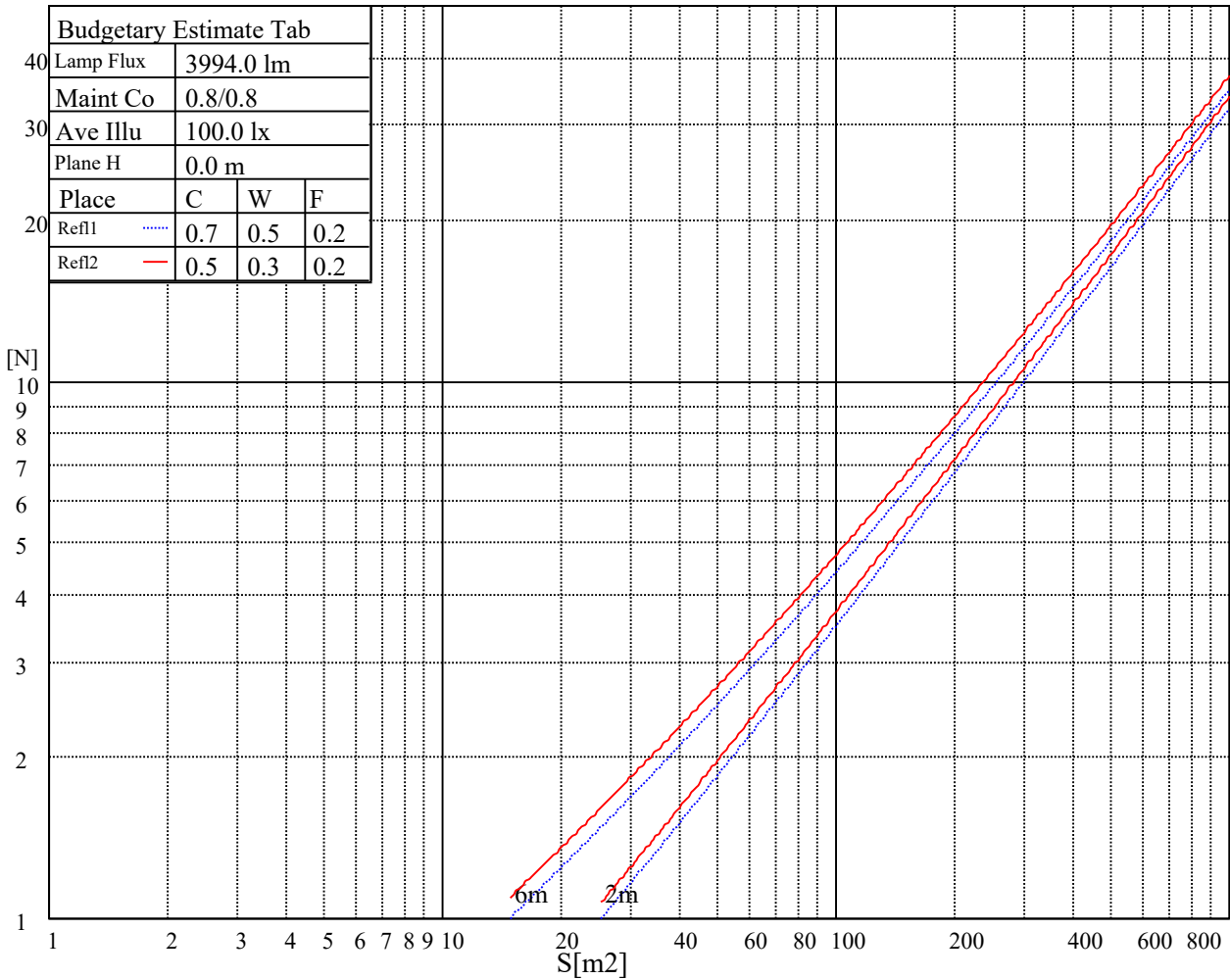
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

Glare Table

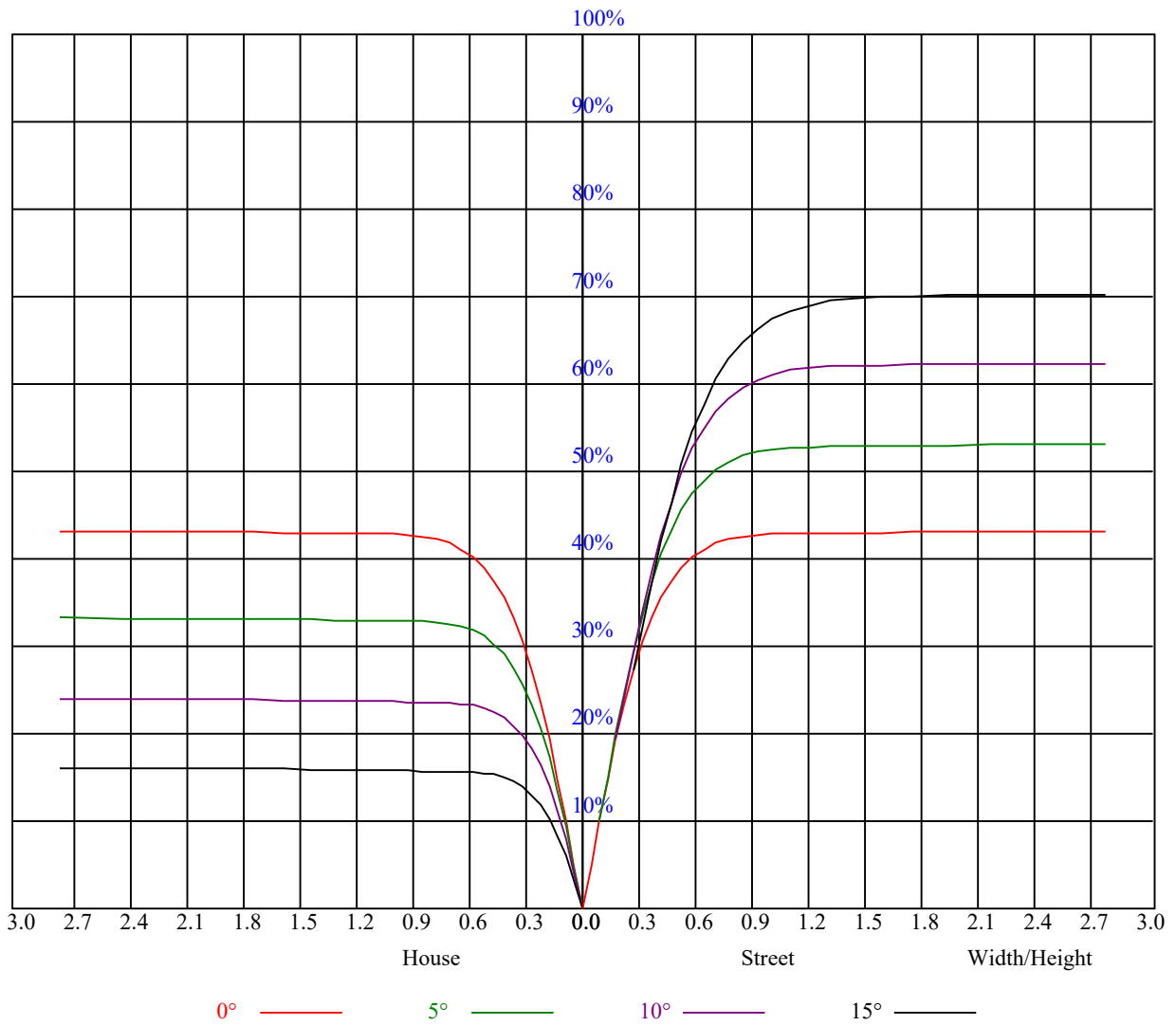
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	1.04	1.04	1.04	1.02	1.02	1.02	0.97	0.97	0.97	0.93	0.93	0.93	0.89	0.89	0.89	0.87
1	0.97	0.95	0.93	0.95	0.94	0.92	0.92	0.90	0.89	0.89	0.87	0.86	0.86	0.85	0.84	0.82
2	0.91	0.88	0.85	0.90	0.87	0.84	0.87	0.85	0.82	0.84	0.82	0.81	0.82	0.80	0.79	0.78
3	0.86	0.82	0.79	0.85	0.81	0.78	0.82	0.79	0.77	0.80	0.78	0.76	0.78	0.76	0.75	0.73
4	0.81	0.77	0.73	0.80	0.76	0.73	0.78	0.75	0.72	0.77	0.74	0.71	0.75	0.73	0.70	0.69
5	0.77	0.72	0.69	0.76	0.72	0.69	0.74	0.71	0.68	0.73	0.70	0.67	0.72	0.69	0.67	0.66
6	0.73	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.63	0.62
7	0.69	0.65	0.61	0.69	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.60	0.66	0.63	0.60	0.59
8	0.66	0.61	0.58	0.65	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.57	0.63	0.60	0.57	0.56
9	0.63	0.58	0.55	0.63	0.58	0.55	0.62	0.58	0.55	0.61	0.57	0.55	0.60	0.57	0.55	0.54
10	0.60	0.56	0.53	0.60	0.55	0.53	0.59	0.55	0.52	0.58	0.55	0.52	0.58	0.55	0.52	0.51



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	6207.61	6142.64	5882.78	5025.55	3806.60	2486.35	1542.13	874.85	406.32
45.0	6196.05	6149.25	5825.52	4882.40	3583.62	2254.01	1435.87	819.79	369.98
90.0	6205.41	6122.27	5603.64	4435.89	3220.80	1949.00	1093.42	746.01	284.42
135.0	6206.51	6155.86	5748.44	4788.26	3443.23	2104.81	1435.87	791.71	331.99
180.0	6207.61	6125.02	5606.94	4516.28	3132.71	1907.70	1080.48	643.28	219.95
225.0	6196.05	6085.38	5531.52	4565.28	3246.68	1978.18	1078.06	720.41	272.36
270.0	6205.41	6096.95	5692.83	4723.84	3534.07	2184.64	1427.06	867.14	379.89
315.0	6206.51	6091.44	5637.78	4623.09	3340.82	2100.40	1245.93	708.36	307.21
360.0	6207.61	6142.64	5882.78	5025.55	3806.60	2486.35	1542.13	874.85	406.32
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	58.97	19.43	17.18	16.08	15.31	14.81	14.48	14.31	14.15
45.0	43.60	18.00	16.63	15.75	15.14	14.76	14.48	14.26	14.20
90.0	31.55	17.56	16.24	15.53	14.98	14.65	14.31	14.15	14.04
135.0	37.77	18.44	16.85	15.91	15.36	14.87	14.53	14.26	14.15
180.0	28.19	18.33	16.90	16.02	15.36	15.03	14.70	14.42	14.26
225.0	32.54	18.17	16.68	15.80	15.20	14.98	14.48	14.26	14.20
270.0	46.74	18.99	16.79	15.75	15.03	14.70	14.42	14.26	14.09
315.0	35.29	18.17	16.68	15.69	15.03	14.65	14.31	14.15	14.04
360.0	58.97	19.43	17.18	16.08	15.31	14.81	14.48	14.31	14.15
C/γ(°)	90.0								
0.0	13.93								
45.0	13.98								
90.0	13.93								
135.0	13.93								
180.0	13.93								
225.0	13.98								
270.0	13.93								
315.0	13.93								
360.0	13.93								