



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

Nata

LumCAT: 3-1542-E	
Luminaire: 92.76.263.00	
Report No: NATA0100	Voltage(V): 30.0000
Test No:	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

Photometric Results

Lumens(lm): 3408.77
Efficiency(%): 91.07%
Lumens(lm)/Power(W): 121.67
Central intensity(cd): 10379.920
Maximum intensity(cd): 10379.920
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=25.0
 [C90/270]Total=25.0
Field angle(10%Imax): [C0/180]Total=66.0
 [C90/270]Total=66.0
Maximum s/h(1/2): C0_180=0.42 C90_270=0.42
Maximum s/h(1/4): C0_180=0.47 C90_270=0.47
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 92.64%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 96.952%

Equipment: gms1980
Temperature(°C): 25.0

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

Operator: NT03
Distance(m): 7.42

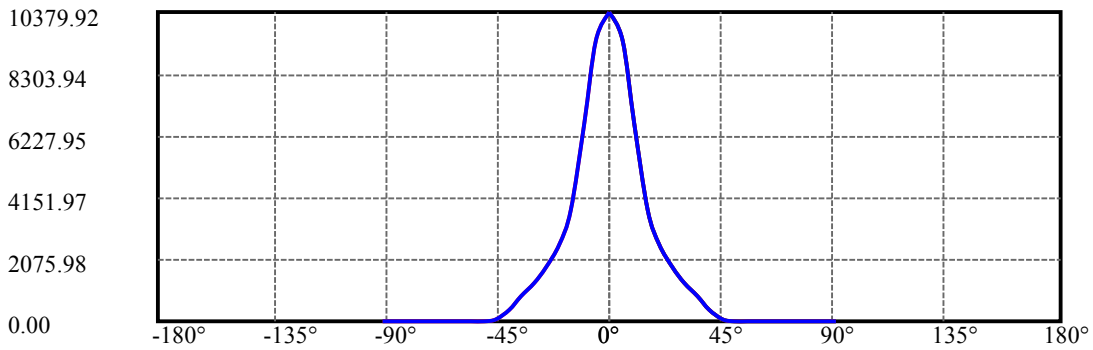
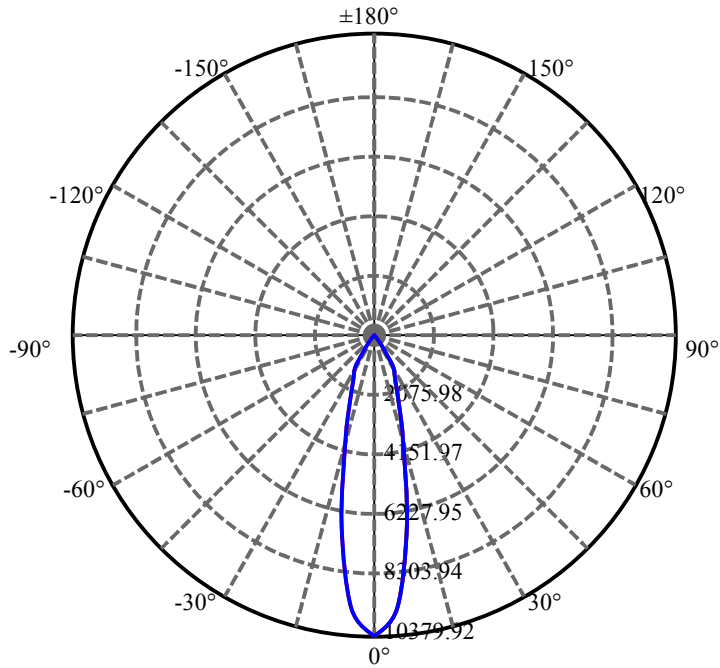
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	10379.921	62.074	62.074	1.658%	1.821%
5.0	9391.452	448.661	510.735	11.987%	14.983%
10.0	6620.807	630.189	1140.924	16.836%	33.470%
15.0	3765.995	534.276	1675.199	14.274%	49.144%
20.0	2590.885	485.724	2160.923	12.977%	63.393%
25.0	1777.427	411.746	2572.669	11.000%	75.472%
30.0	1308.636	358.656	2931.325	9.582%	85.994%
35.0	856.444	269.265	3200.59	7.194%	93.893%
40.0	354.660	124.959	3325.549	3.338%	97.559%
45.0	39.028	15.127	3340.676	.404%	98.002%
50.0	16.269	6.831	3347.508	.183%	98.203%
55.0	15.670	7.036	3354.544	.188%	98.409%
60.0	15.505	7.360	3361.904	.197%	98.625%
65.0	15.464	7.682	3369.586	.205%	98.850%
70.0	15.884	8.181	3377.768	.219%	99.090%
75.0	16.579	8.778	3386.545	.235%	99.348%
80.0	16.847	9.094	3395.64	.243%	99.615%
85.0	16.648	9.090	3404.73	.243%	99.881%
90.0	14.755	4.044	3408.774	.108%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2931.33	78.31%	85.99%
0-40	3325.55	88.85%	97.56%
0-60	3361.90	89.82%	98.63%
0-90	3404.73	90.96%	99.88%
0-120	3404.73	90.96%	99.88%
0-180	3408.77	91.07%	100.00%
60-90	50.19	1.34%	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%
0-27.15	2727.02	72.86%	80.00%

ZONAL LUMEN SUMMARY

0-10	1140.92
10-20	1020.00
20-30	770.40
30-40	394.22
40-50	21.96
50-60	14.40
60-70	15.86
70-80	17.87
80-90	9.09
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: ———

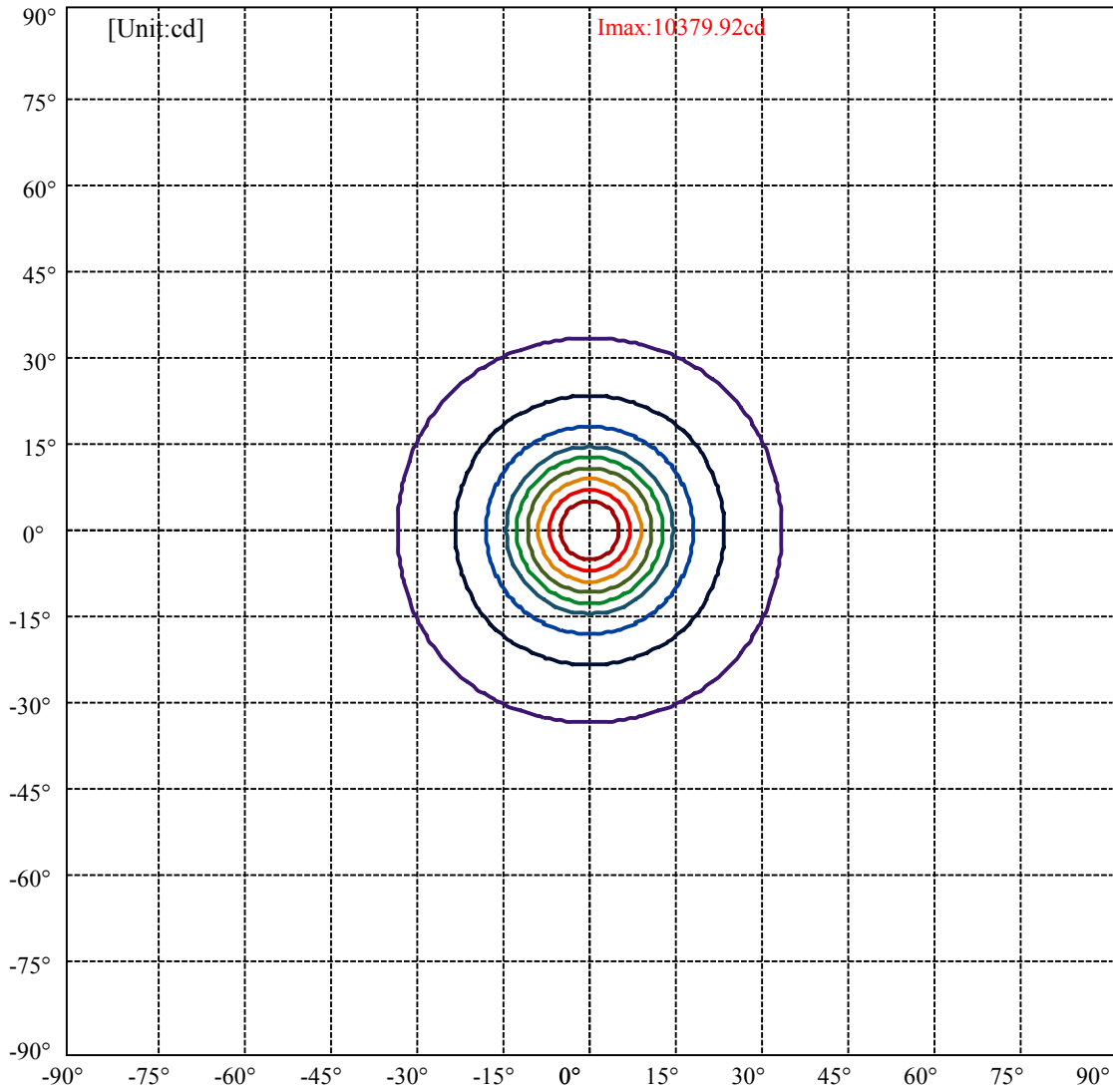
C90/C270: ———

Field angle(10%Imax):C0/180Left:33.0 Right:33.0

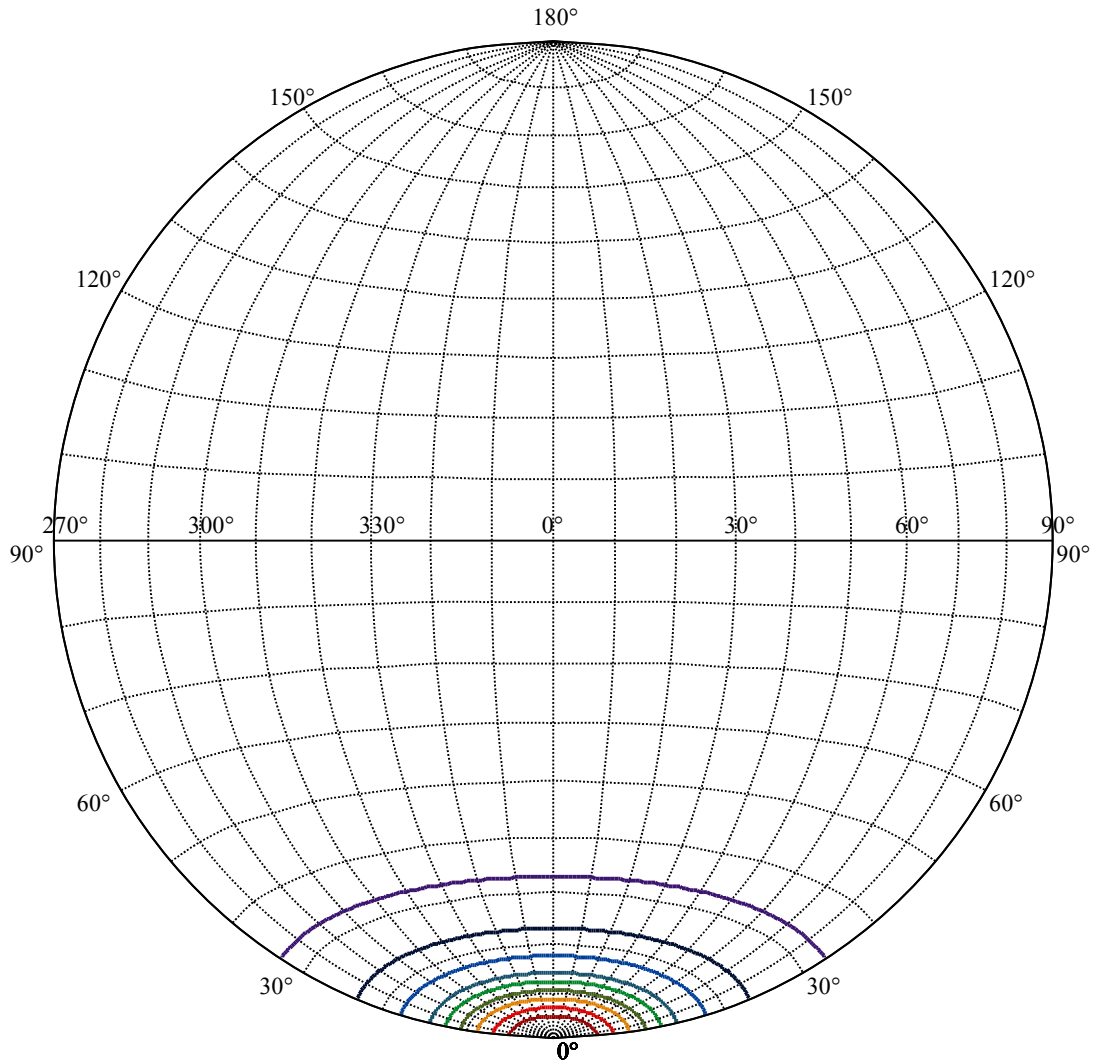
:C90/270Left:33.0 Right:33.0

Beam Angle(50%Imax):C0/180Left:12.5 Right:12.5

:C90/270Left:12.5 Right:12.5



(10%Imax) 1037.99	—
(20%Imax) 2075.98	—
(30%Imax) 3113.98	—
(40%Imax) 4151.97	—
(50%Imax) 5189.96	—
(60%Imax) 6227.95	—
(70%Imax) 7265.94	—
(80%Imax) 8303.94	—
(90%Imax) 9341.93	—



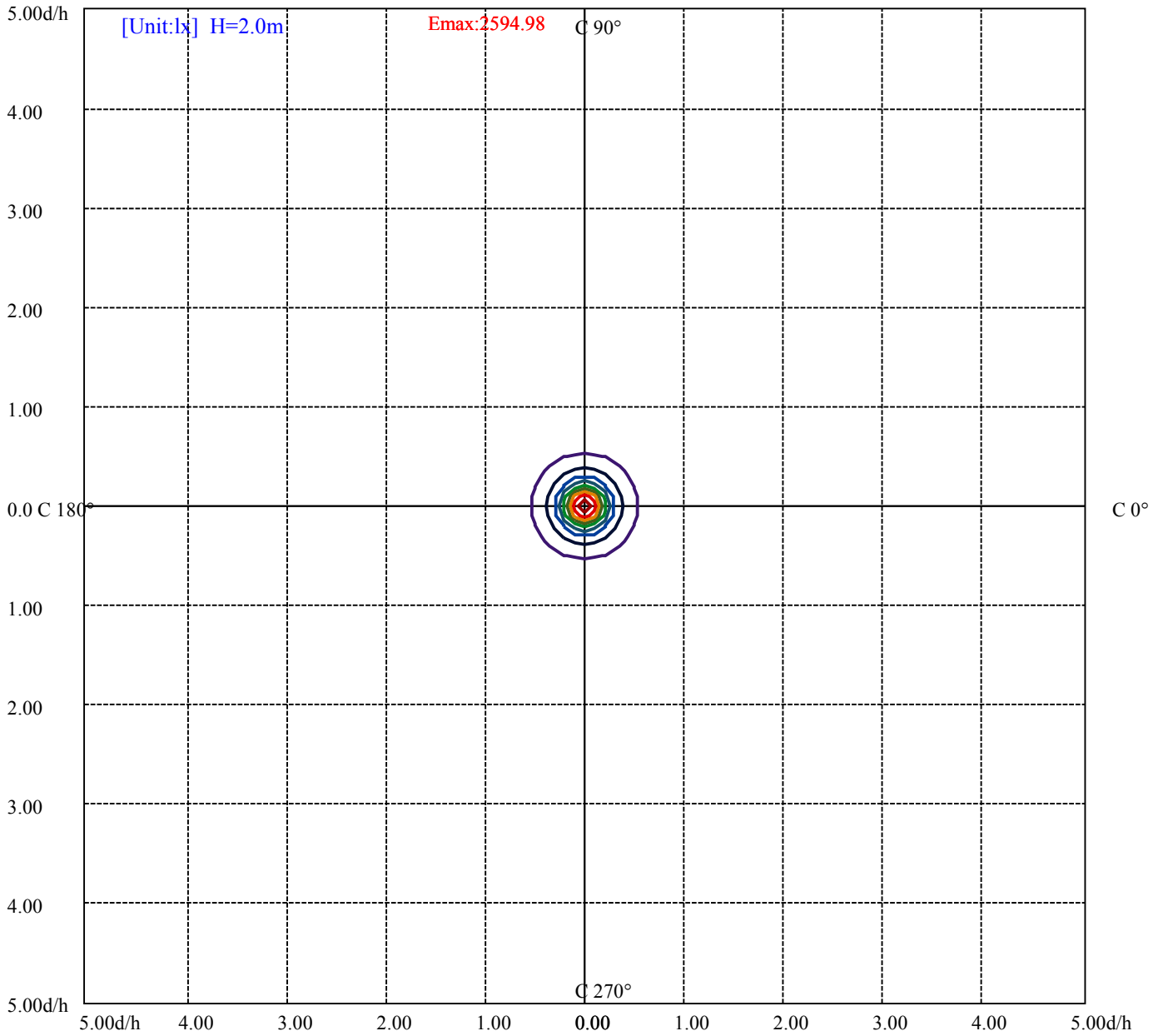
House

[Unit:cd]

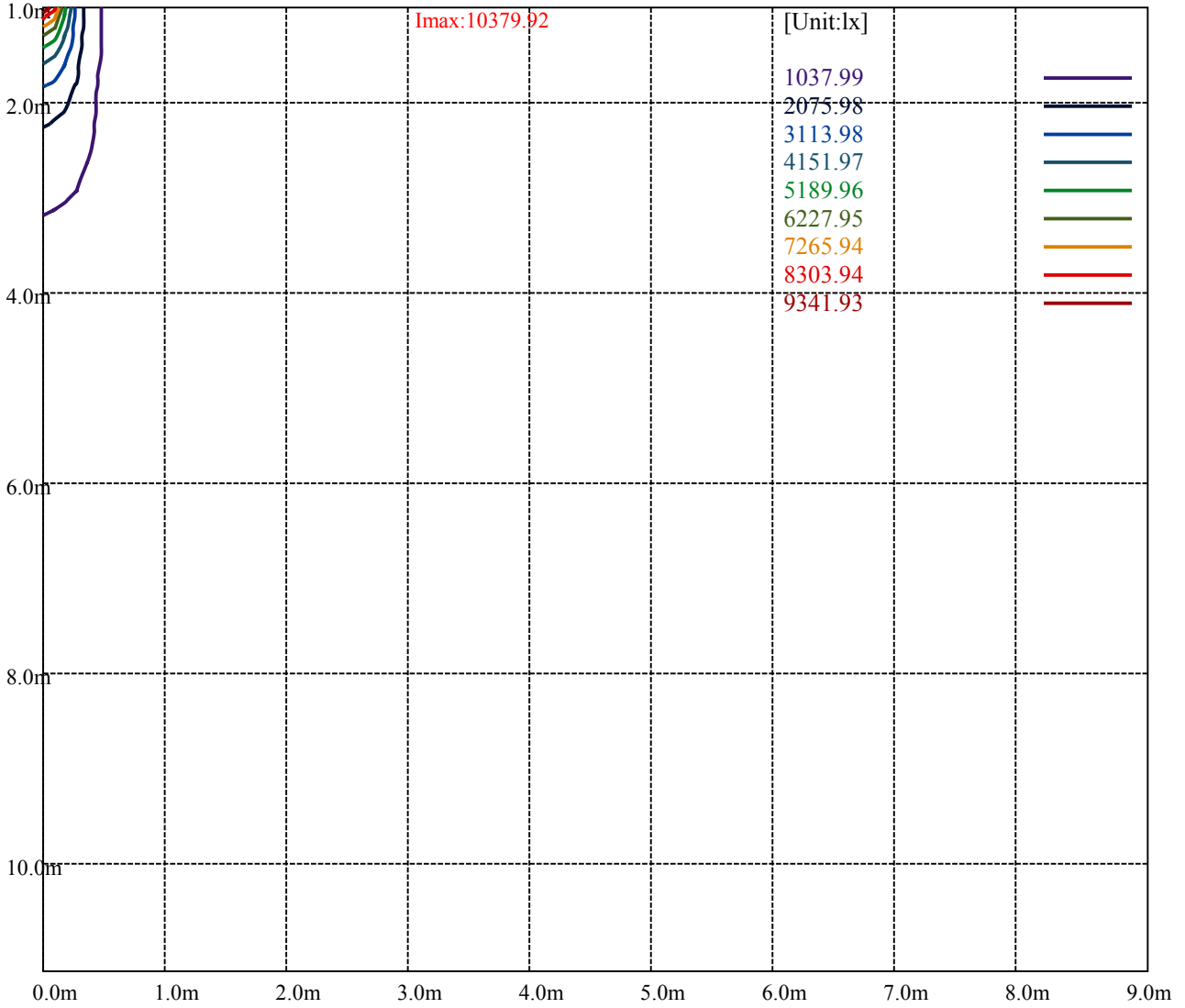
Road

Imax:10379.92

(10%Imax)	1037.99	—
(20%Imax)	2075.98	—
(30%Imax)	3113.98	—
(40%Imax)	4151.97	—
(50%Imax)	5189.96	—
(60%Imax)	6227.95	—
(70%Imax)	7265.94	—
(80%Imax)	8303.94	—
(90%Imax)	9341.93	—



- (10%Emax) 259.4975
- (20%Emax) 518.995
- (30%Emax) 778.4925
- (40%Emax) 1037.99
- (50%Emax) 1297.488
- (60%Emax) 1556.983
- (70%Emax) 1816.48
- (80%Emax) 2075.978
- (90%Emax) 2335.475



Luminance Table

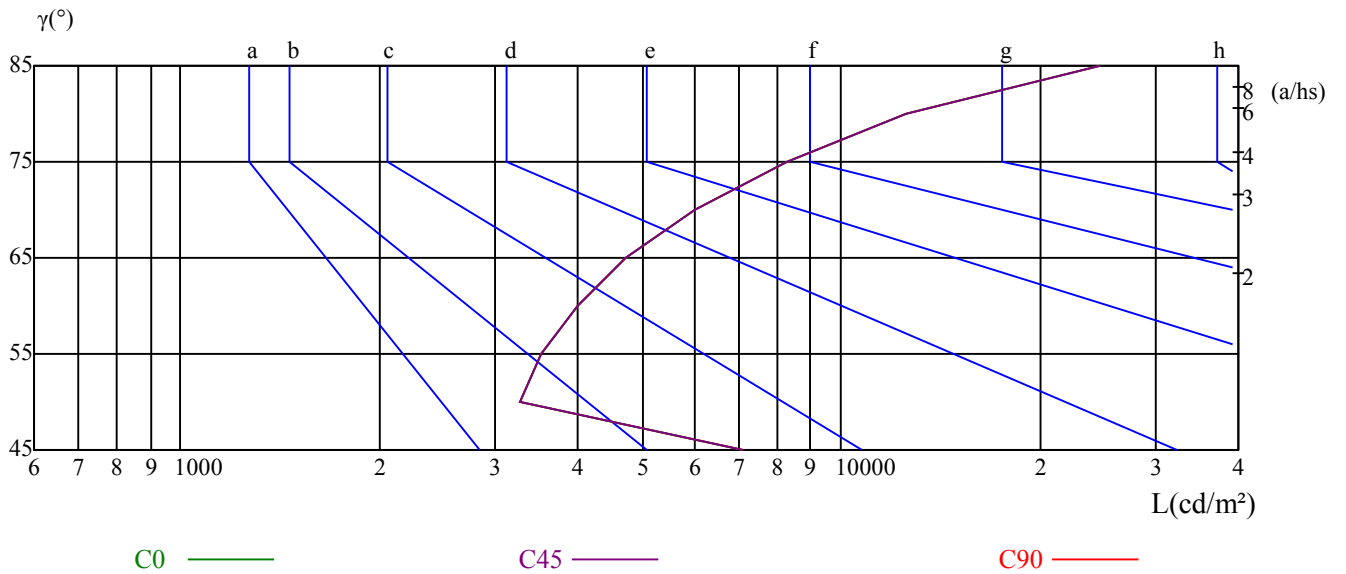
γ	45	50	55	60	65	70	75	80	85
C0	7127	3268	3528	4004	4725	5997	8272	12528	24666
C45	7127	3268	3528	4004	4725	5997	8272	12528	24666
C90	7127	3268	3528	4004	4725	5997	8272	12528	24666

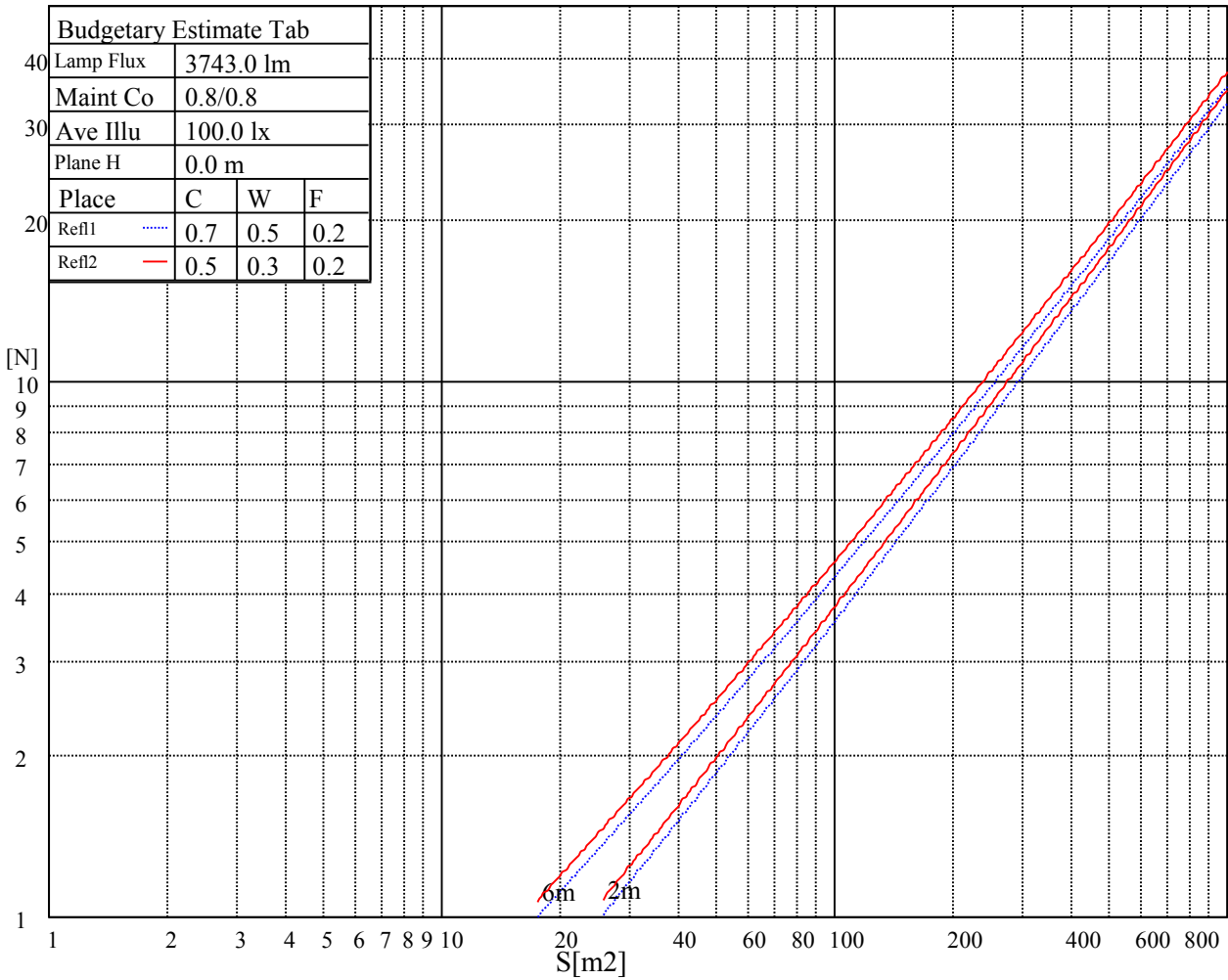
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4725	4725	4725	8272	8272	8272	24666	24666	24666

Glare Table

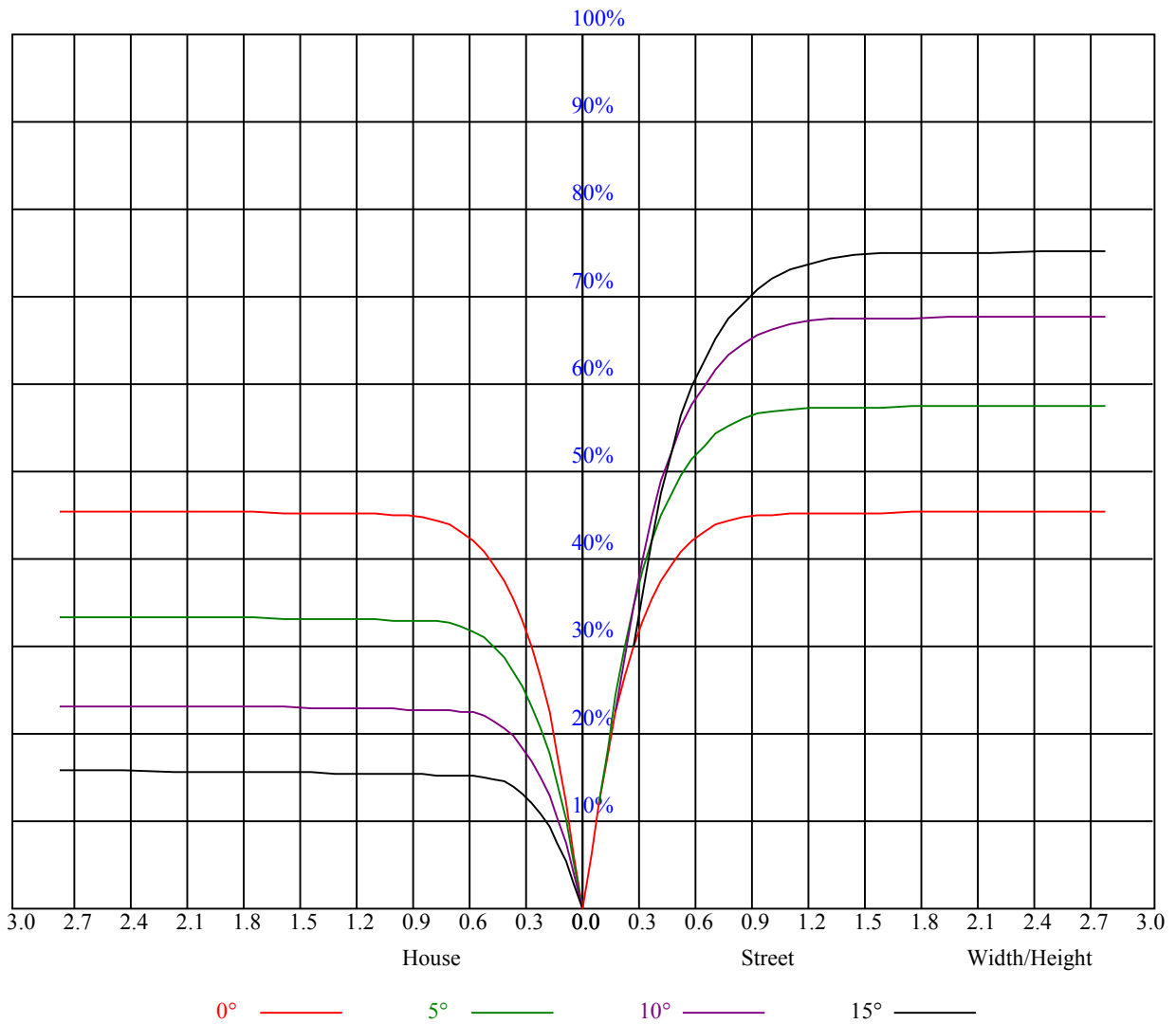
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	1.10	1.10	1.10	1.08	1.08	1.08	1.03	1.03	1.03	0.99	0.99	0.99	0.95	0.95	0.95	0.93
1	1.02	0.99	0.97	1.00	0.97	0.95	0.96	0.94	0.92	0.92	0.91	0.89	0.89	0.88	0.87	0.85
2	0.96	0.92	0.89	0.94	0.91	0.88	0.91	0.89	0.86	0.89	0.86	0.84	0.86	0.84	0.83	0.81
3	0.91	0.87	0.83	0.90	0.86	0.83	0.87	0.84	0.82	0.85	0.83	0.80	0.83	0.81	0.79	0.78
4	0.87	0.82	0.79	0.86	0.82	0.78	0.84	0.80	0.77	0.82	0.79	0.77	0.80	0.78	0.76	0.74
5	0.83	0.78	0.75	0.82	0.78	0.74	0.80	0.77	0.74	0.79	0.76	0.73	0.78	0.75	0.73	0.71
6	0.79	0.75	0.71	0.79	0.74	0.71	0.77	0.74	0.71	0.76	0.73	0.70	0.75	0.72	0.70	0.69
7	0.76	0.72	0.68	0.76	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.67	0.73	0.70	0.67	0.66
8	0.73	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.65	0.71	0.68	0.65	0.70	0.67	0.65	0.64
9	0.71	0.66	0.63	0.70	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.63	0.62
10	0.68	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.61	0.67	0.63	0.61	0.66	0.63	0.61	0.60



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	10376.48	9544.03	6909.03	3774.67	2626.74	1775.57	1354.94	894.12	373.28
45.0	10358.86	10190.39	7721.66	4313.67	2892.66	1980.38	1439.72	1022.95	485.60
90.0	10450.81	9960.25	7478.86	4114.36	2791.91	1924.77	1418.80	985.18	455.32
135.0	10333.54	9992.74	7756.35	4664.38	2883.85	1964.96	1481.02	1021.85	505.97
180.0	10376.48	9216.44	6251.10	3504.34	2542.50	1740.33	1342.28	827.33	310.96
225.0	10358.86	8575.03	5517.20	3227.41	2302.46	1593.88	1073.54	706.21	208.44
270.0	10450.81	9008.88	5851.39	3343.58	2383.94	1652.79	1263.54	743.26	294.55
315.0	10333.54	8643.85	5480.86	3185.56	2303.01	1586.73	1095.24	650.66	203.16
360.0	10376.48	9544.03	6909.03	3774.67	2626.74	1775.57	1354.94	894.12	373.28

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	36.50	16.35	15.58	15.31	15.31	15.58	16.46	17.34	17.84
45.0	59.13	16.74	15.91	15.53	15.47	15.53	15.86	16.30	16.96
90.0	55.94	16.41	15.58	15.25	15.09	14.98	15.09	15.20	15.42
135.0	76.53	16.46	15.58	15.20	15.03	14.98	14.87	14.87	14.87
180.0	29.01	15.91	15.36	15.31	15.20	15.47	16.13	15.36	14.92
225.0	18.28	16.19	15.91	16.02	16.02	16.57	17.45	18.61	17.40
270.0	19.71	16.24	16.02	16.19	16.35	18.50	20.76	20.54	18.06
315.0	17.12	15.86	15.42	15.25	15.25	15.47	16.02	16.57	17.73
360.0	36.50	16.35	15.58	15.31	15.31	15.58	16.46	17.34	17.84

C/γ(°)	90.0
0.0	14.65
45.0	14.98
90.0	14.76
135.0	14.65
180.0	14.59
225.0	14.98
270.0	14.81
315.0	14.65
360.0	14.65