



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: 1436-N
Luminaire: 92.70.064.00+92.70.147.00
Report No: NATA0100
Test No: GC2018072809
LampCAT: BRIDGELUX V6HD
Lamp flux(lm): 1137.0
Number of Lamps: 1
Length(mm): 46
Phm Type: C

Voltage(V): 36.0000
Current(A): 0.3000
Power (W): 10.8000
PF: 0.0000
Ballast type: DC
Width(mm): 46
Height(mm): 0

Photometric Results

Lumens(lm): 920.25
Efficiency(%): 80.94%
Lumens(lm)/Power(W): 87.27
Central intensity(cd): 3860.968
Maximum intensity(cd): 3860.968
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=22.0
 [C90/270]Total=22.0
Field angle(10%Imax): [C0/180]Total=45.5
 [C90/270]Total=45.5
Maximum s/h(1/2): C0_180=0.37 C90_270=0.37
Maximum s/h(1/4): C0_180=0.37 C90_270=0.37
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 82.89%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 94.615%

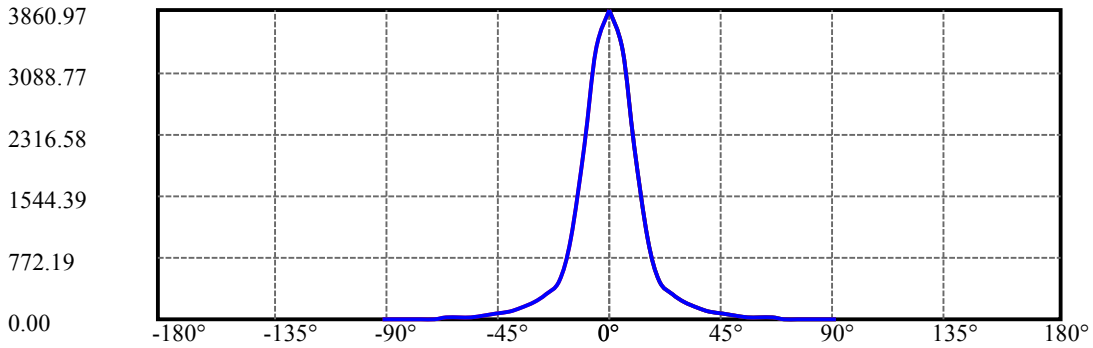
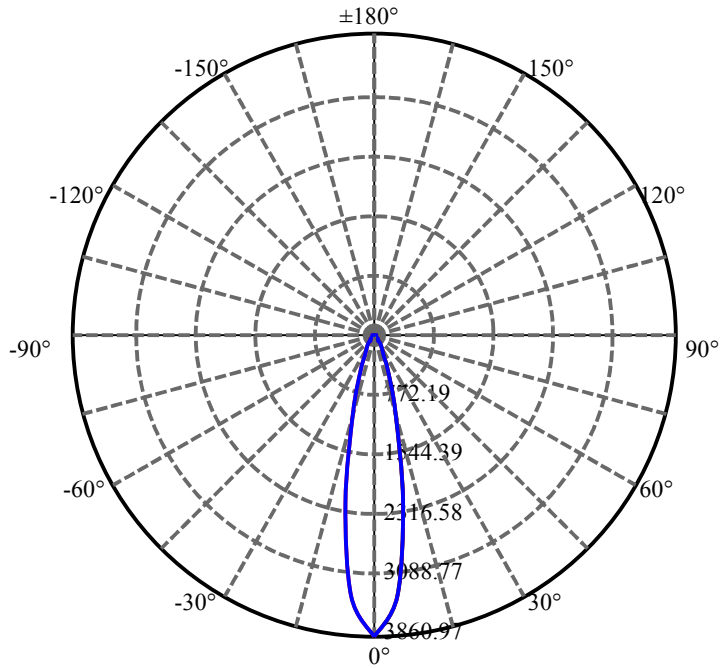
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3860.968	23.089	23.089	2.031%	2.509%
5.0	3368.488	160.924	184.013	14.153%	19.996%
10.0	2163.028	205.884	389.897	18.108%	42.369%
15.0	1010.602	143.372	533.269	12.610%	57.948%
20.0	480.821	90.142	623.411	7.928%	67.744%
25.0	307.490	71.231	694.642	6.265%	75.484%
30.0	209.476	57.411	752.053	5.049%	81.723%
35.0	132.652	41.705	793.758	3.668%	86.255%
40.0	92.054	32.434	826.192	2.853%	89.779%
45.0	63.342	24.551	850.743	2.159%	92.447%
50.0	45.071	18.925	869.668	1.664%	94.504%
55.0	29.627	13.303	882.971	1.170%	95.949%
60.0	18.416	8.742	891.713	.769%	96.899%
65.0	12.546	6.233	897.946	.548%	97.576%
70.0	10.915	5.622	903.568	.494%	98.187%
75.0	10.172	5.385	908.953	.474%	98.773%
80.0	9.800	5.290	914.243	.465%	99.347%
85.0	8.947	4.885	919.129	.430%	99.878%
90.0	4.088	1.120	920.249	.099%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	752.05	66.14%	81.72%
0-40	826.19	72.66%	89.78%
0-60	891.71	78.43%	96.90%
0-90	919.13	80.84%	99.88%
0-120	919.13	80.84%	99.88%
0-180	920.25	80.94%	100.00%
60-90	36.16	3.18%	3.93%
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%
0-28.62	736.20	64.75%	80.00%

ZONAL LUMEN SUMMARY

0-10	389.90
10-20	233.51
20-30	128.64
30-40	74.14
40-50	43.48
50-60	22.05
60-70	11.85
70-80	10.68
80-90	4.89
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: —————

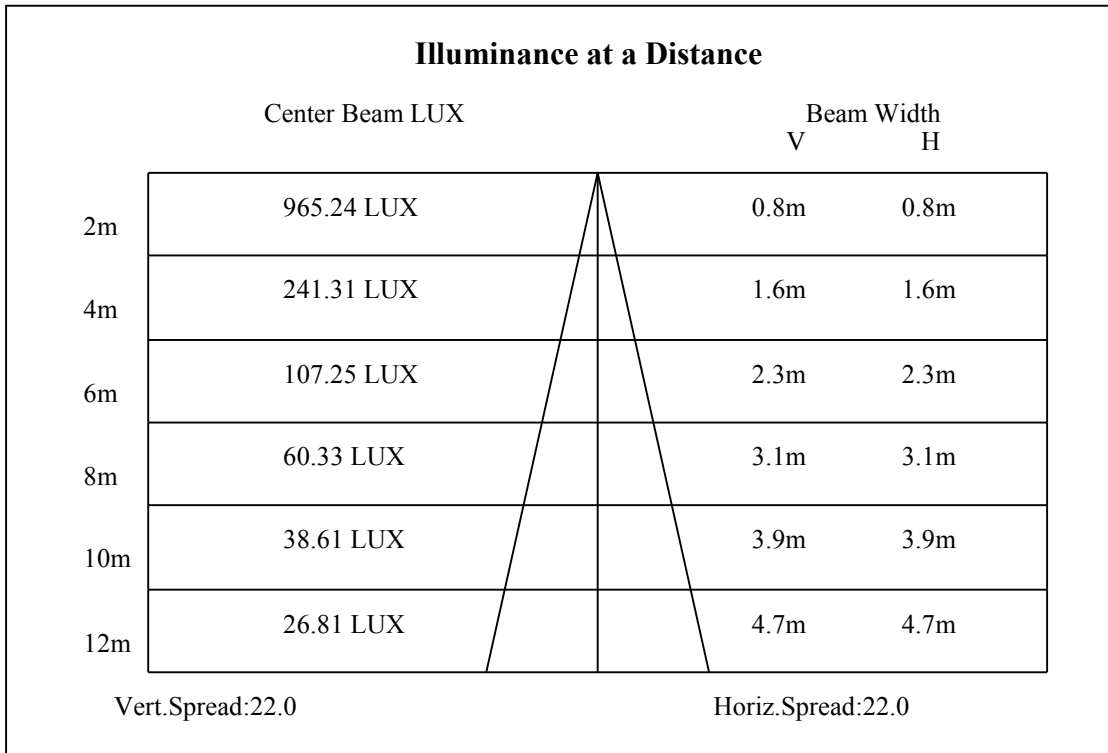
C90/C270: —————

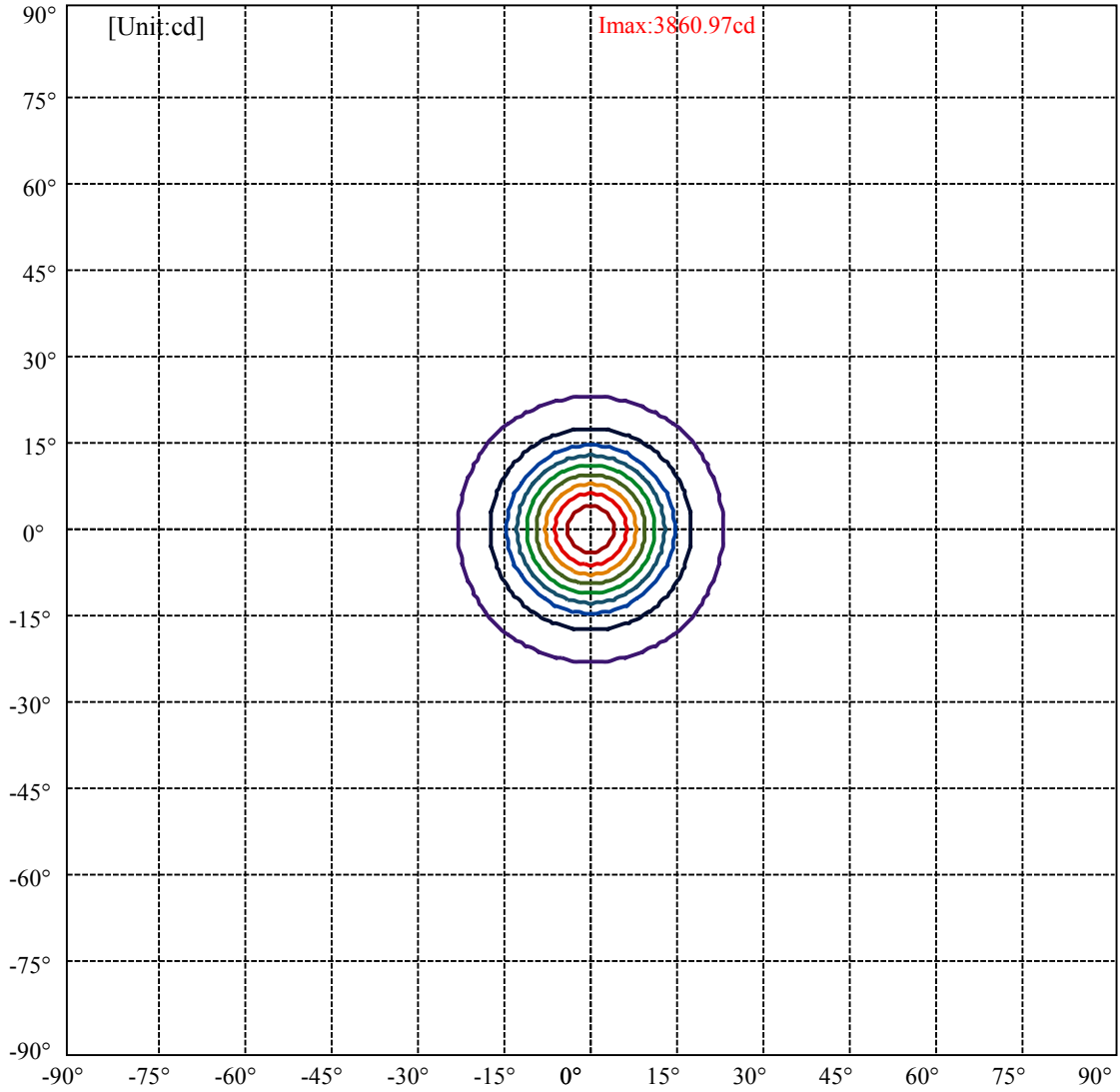
Field angle(10%Imax):C0/180Left:22.7 Right:22.7

:C90/270Left:22.7 Right:22.7

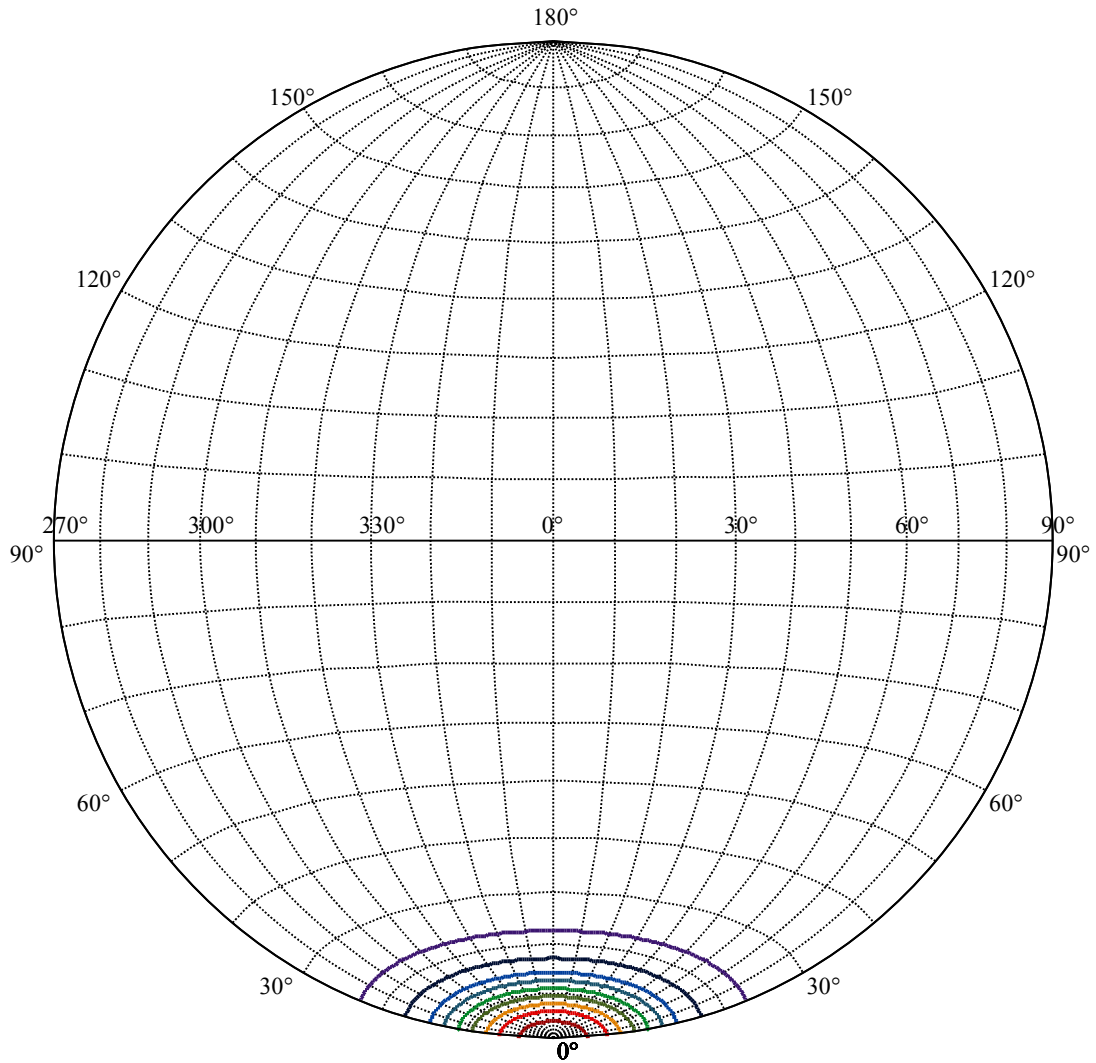
Beam Angle(50%Imax):C0/180Left:11.0 Right:11.0

:C90/270Left:11.0 Right:11.0





(10%Imax) 386.097	—
(20%Imax) 772.193	—
(30%Imax) 1158.29	—
(40%Imax) 1544.39	—
(50%Imax) 1930.48	—
(60%Imax) 2316.58	—
(70%Imax) 2702.68	—
(80%Imax) 3088.77	—
(90%Imax) 3474.87	—



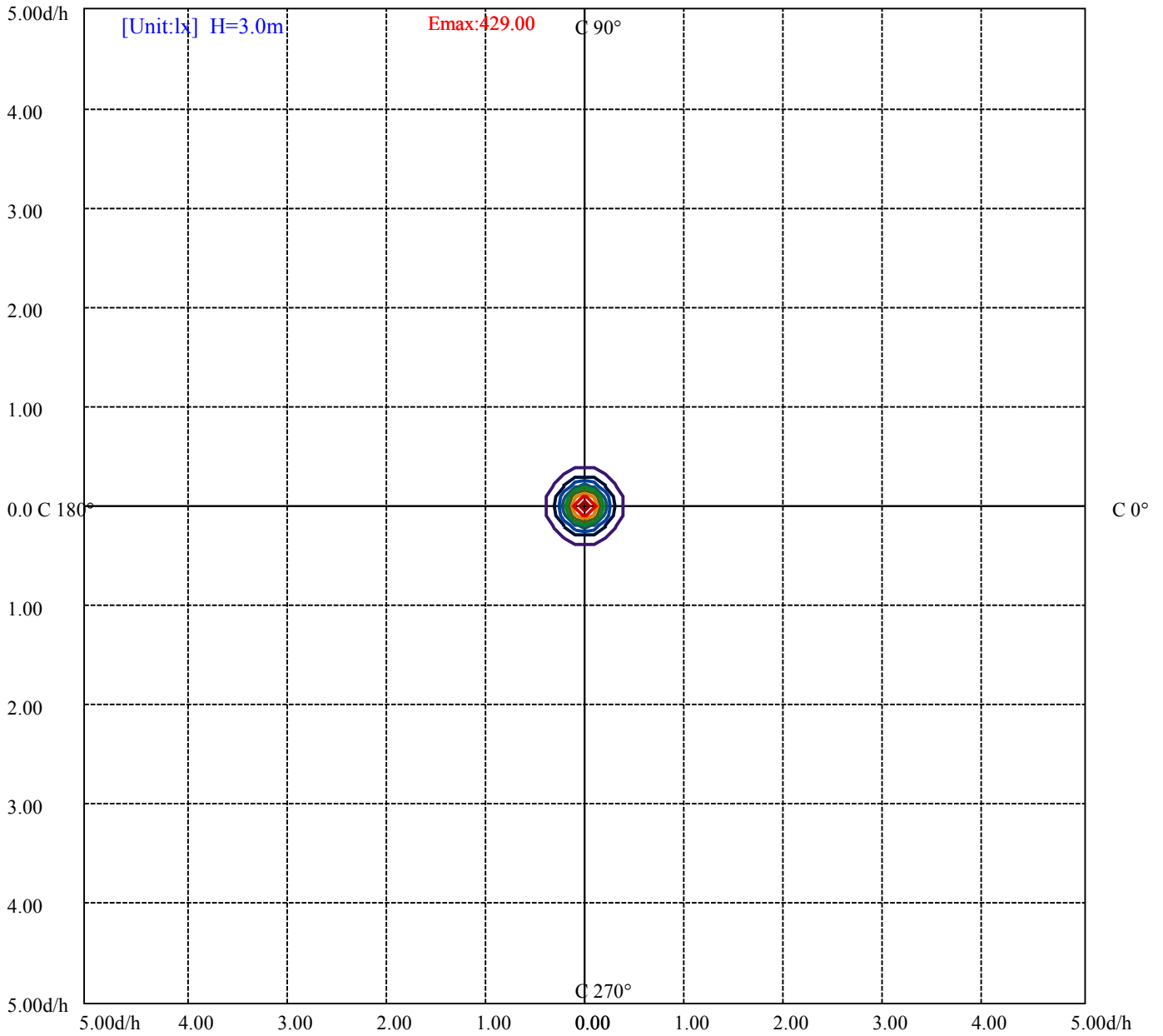
House

[Unit:cd]

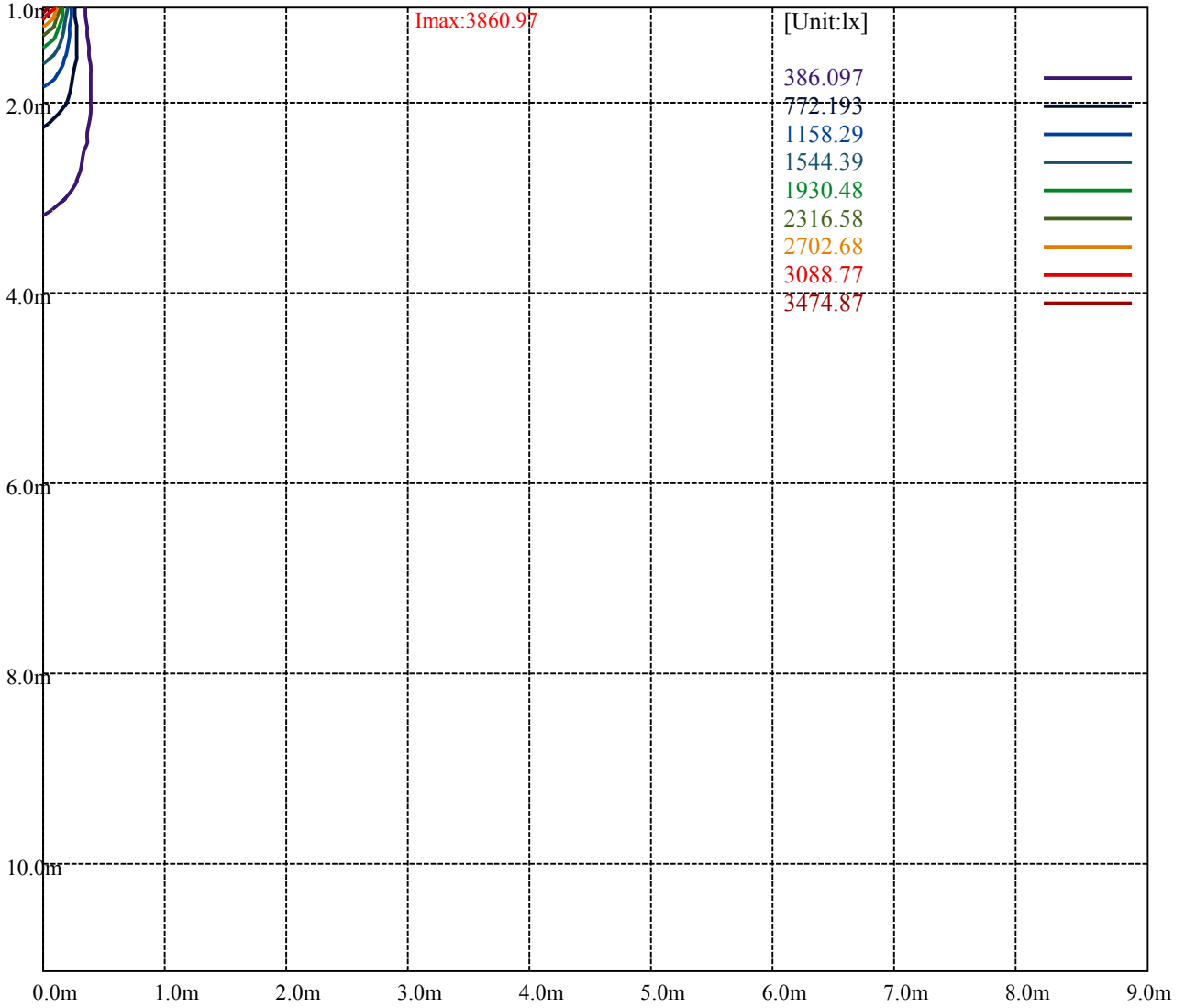
Road

Imax:3860.97

(10%Imax)	386.097	—
(20%Imax)	772.193	—
(30%Imax)	1158.29	—
(40%Imax)	1544.39	—
(50%Imax)	1930.48	—
(60%Imax)	2316.58	—
(70%Imax)	2702.68	—
(80%Imax)	3088.77	—
(90%Imax)	3474.87	—



- (10%Emax) 42.89944
- (20%Emax) 85.799
- (30%Emax) 128.6989
- (40%Emax) 171.5978
- (50%Emax) 214.4978
- (60%Emax) 257.3967
- (70%Emax) 300.2967
- (80%Emax) 343.1956
- (90%Emax) 386.0956



Luminance Table

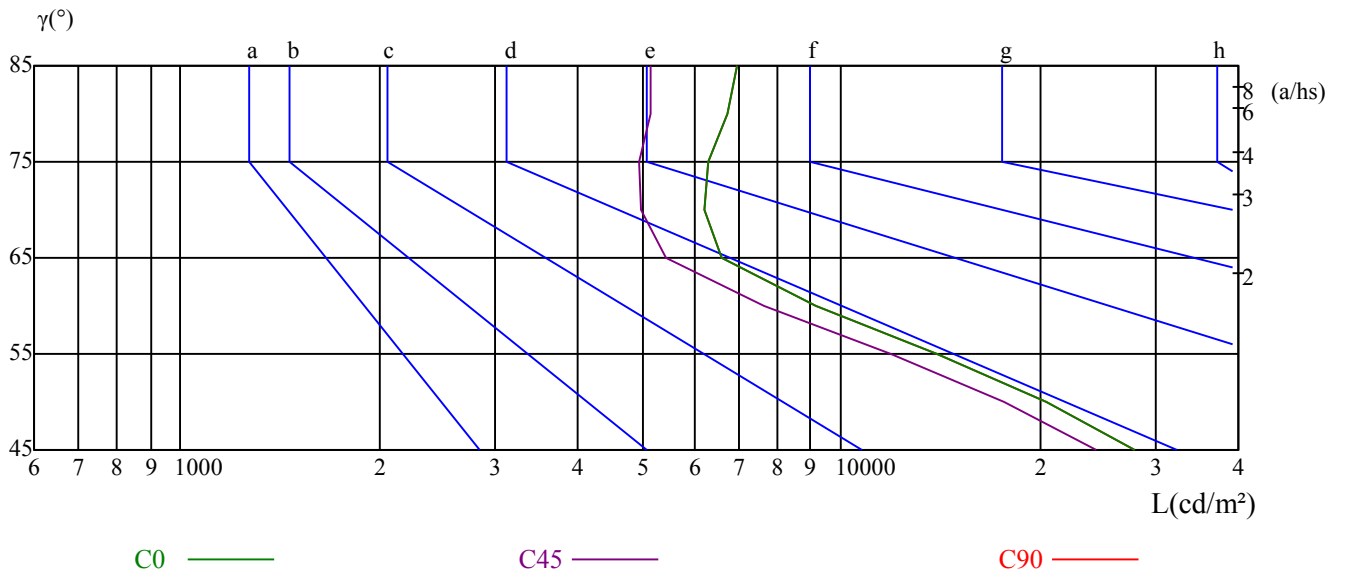
γ	45	50	55	60	65	70	75	80	85
C0	27820	20432	13988	9144	6621	6198	6302	6737	6967
C45	24360	17632	11886	7641	5433	4982	4948	5144	5142
C90	27820	20432	13988	9144	6621	6198	6302	6737	6967

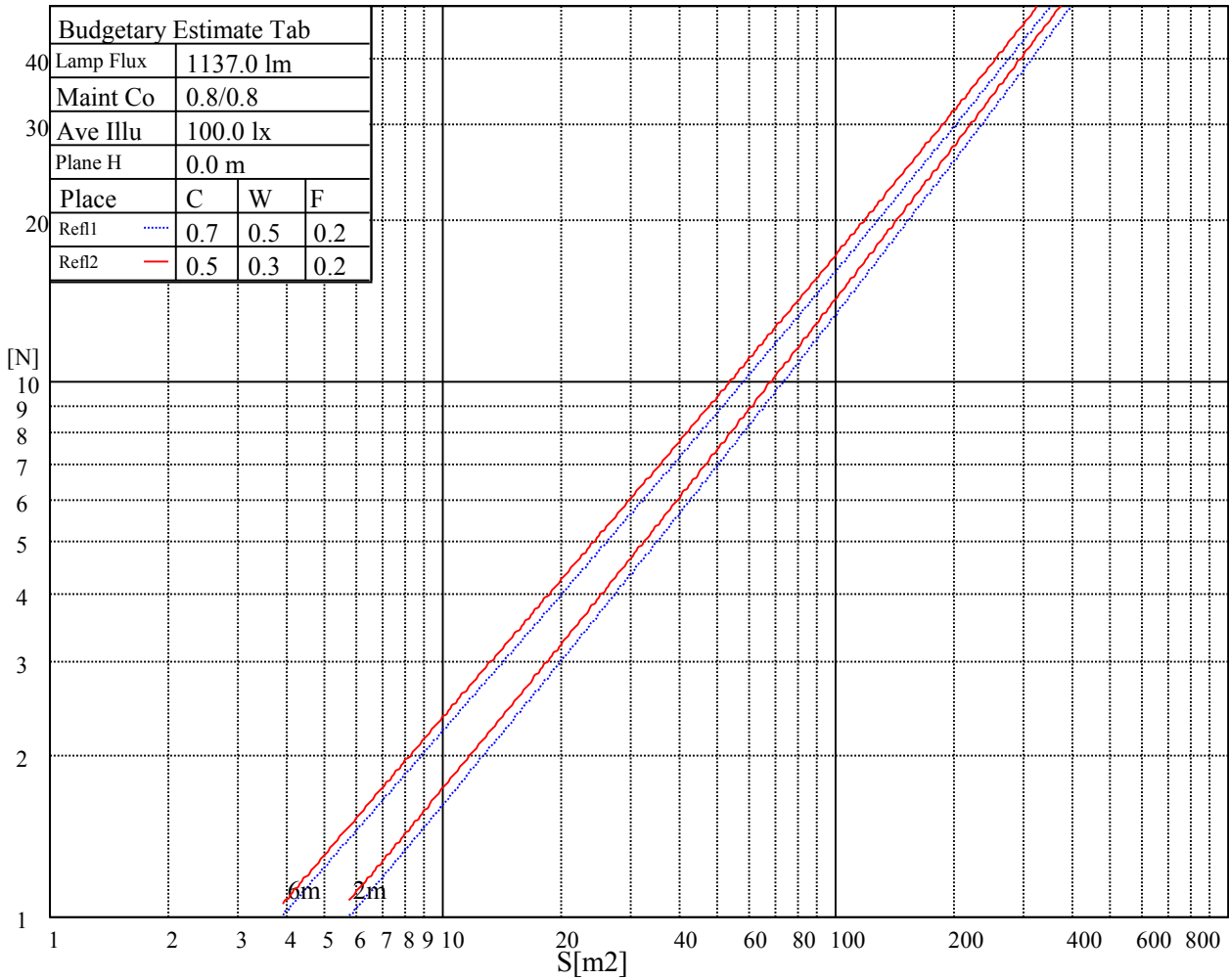
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
14029	14029	14029	18573	18573	18573	48512	48512	48512

Glare Table

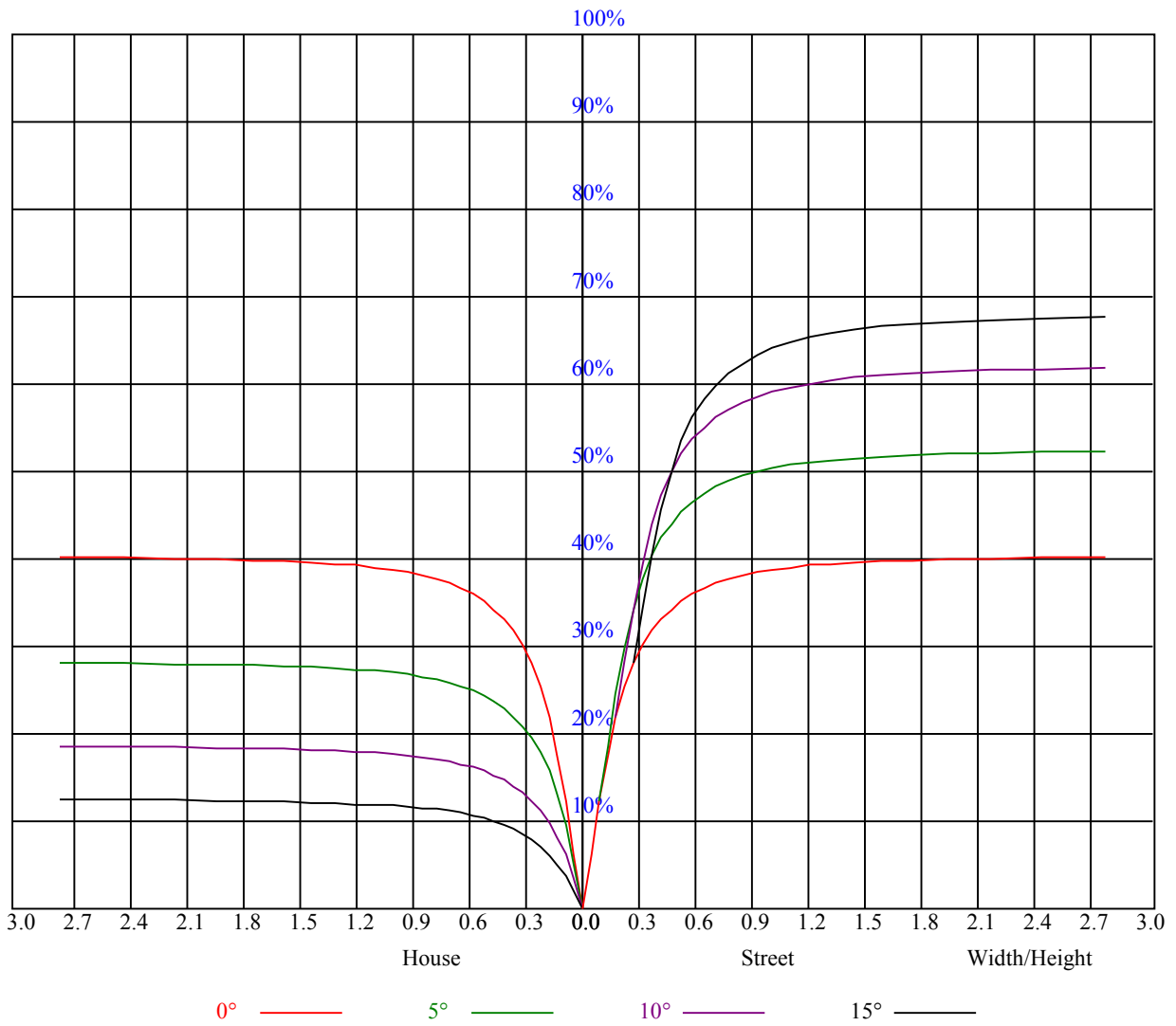
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.99	0.99	0.99	0.96	0.96	0.96	0.92	0.92	0.92	0.88	0.88	0.88	0.85	0.85	0.85	0.83
1	0.90	0.87	0.85	0.88	0.86	0.84	0.85	0.83	0.81	0.81	0.80	0.79	0.79	0.77	0.76	0.75
2	0.85	0.81	0.78	0.83	0.80	0.77	0.80	0.78	0.76	0.78	0.76	0.74	0.76	0.74	0.72	0.71
3	0.80	0.76	0.73	0.79	0.75	0.72	0.77	0.74	0.71	0.75	0.72	0.70	0.73	0.71	0.69	0.68
4	0.76	0.72	0.69	0.75	0.72	0.69	0.74	0.70	0.68	0.72	0.69	0.67	0.71	0.68	0.66	0.65
5	0.73	0.69	0.66	0.72	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.64	0.68	0.66	0.64	0.63
6	0.70	0.66	0.63	0.70	0.66	0.63	0.68	0.65	0.62	0.67	0.64	0.62	0.66	0.64	0.61	0.60
7	0.68	0.63	0.60	0.67	0.63	0.60	0.66	0.63	0.60	0.65	0.62	0.60	0.64	0.62	0.59	0.58
8	0.65	0.61	0.58	0.65	0.61	0.58	0.64	0.61	0.58	0.63	0.60	0.58	0.63	0.60	0.58	0.57
9	0.63	0.59	0.57	0.63	0.59	0.57	0.62	0.59	0.56	0.62	0.58	0.56	0.61	0.58	0.56	0.55
10	0.61	0.58	0.55	0.61	0.57	0.55	0.61	0.57	0.55	0.60	0.57	0.55	0.59	0.57	0.55	0.54



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	3851.20	3586.37	2415.87	1205.18	527.99	336.39	215.99	140.83	100.20
45.0	3884.78	3241.17	1962.21	906.23	453.11	289.60	191.71	123.16	86.82
90.0	3814.86	3001.12	1716.11	736.93	401.25	261.90	176.29	115.12	77.30
135.0	3893.04	3219.15	1973.22	877.60	461.92	294.00	195.17	131.86	91.28
180.0	3851.20	3086.46	1775.57	820.73	424.93	278.26	188.73	125.20	88.31
225.0	3884.78	3529.67	2307.41	1049.26	466.16	312.78	205.47	131.86	92.77
270.0	3814.86	3725.67	2793.01	1397.88	593.51	362.82	283.54	151.79	104.06
315.0	3893.04	3558.30	2360.82	1091.00	517.70	324.17	218.90	141.38	95.69
360.0	3851.20	3586.37	2415.87	1205.18	527.99	336.39	215.99	140.83	100.20

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	70.53	51.70	35.07	21.47	13.87	12.06	11.56	11.01	10.79
45.0	61.55	43.99	28.02	17.23	12.22	10.96	10.57	10.74	8.48
90.0	53.62	37.44	23.45	14.98	11.23	10.13	9.30	9.36	8.04
135.0	62.10	43.49	27.86	17.07	11.12	8.81	7.65	7.16	7.38
180.0	63.98	45.86	29.29	17.67	13.21	12.28	12.17	11.18	9.69
225.0	62.93	44.93	30.56	19.49	13.16	11.29	10.24	9.97	9.30
270.0	67.44	46.85	31.93	20.59	12.77	10.74	9.86	9.19	8.48
315.0	64.58	46.30	30.83	18.83	12.77	11.07	10.02	9.80	9.41
360.0	70.53	51.70	35.07	21.47	13.87	12.06	11.56	11.01	10.79

C/γ(°)	90.0
0.0	4.24
45.0	3.96
90.0	3.91
135.0	3.85
180.0	4.18
225.0	4.35
270.0	4.13
315.0	4.07
360.0	4.24