



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

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## Nata

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LumCAT: 2-1552-A  
Luminaire: 92.76.374.00  
Report No: NT2017011904  
Test No: GC2017011904  
LampCAT: BRIDGELUX VERO SE 13B  
Lamp flux(lm): 3154.0  
Number of Lamps: 1  
Length(mm): 70  
Phm Type: C

Voltage(V): 36.0000  
Current(A): 0.6500  
Power (W): 23.4000  
PF: 0.0000  
Ballast type: DC  
Width(mm): 70  
Height(mm): 0

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## Photometric Results

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Lumens(lm): 2951.75  
Efficiency(%): 93.59%  
Lumens(lm)/Power(W): 126.14  
Central intensity(cd): 22026.690  
Maximum intensity(cd): 22026.690  
Angle of maximum intensity: C=0.0  $\gamma$ =0.0  
Beam Angle(50%Imax): [C0/180]Total=15.2  
                                  [C90/270]Total=15.2  
Field angle(10%Imax): [C0/180]Total=30.6  
                                  [C90/270]Total=30.6  
Maximum s/h(1/2): C0\_180=0.26 C90\_270=0.26  
Maximum s/h(1/4): C0\_180=0.28 C90\_270=0.28  
Up flux rate of lamp(%): 0.00%  
Down flux rate of lamp(%): 97.67%  
Up flux rate of LUM(%): - -  
Down flux rate of LUM(%): 100.00%  
CIE Type : Direct lighting  
Output flux ratio in  $\pi$  solid angle : 94.591%

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Equipment: gms1980  
Temperature(°C): 25.0

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

Operator: NT03  
Distance(m): 7.42

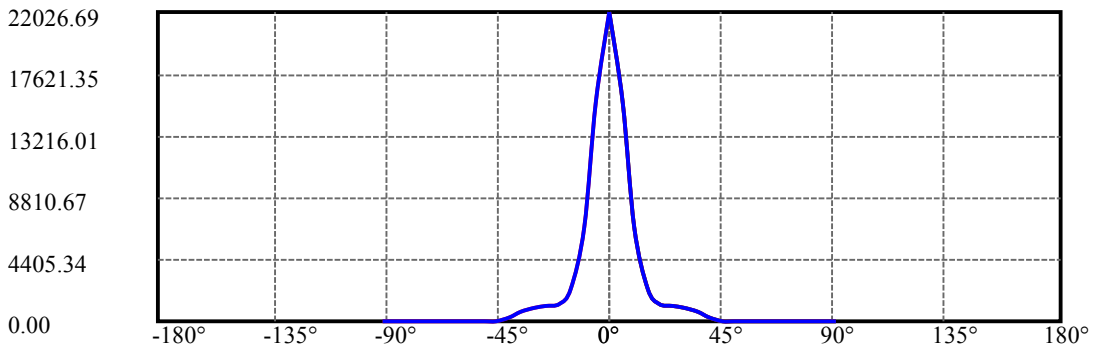
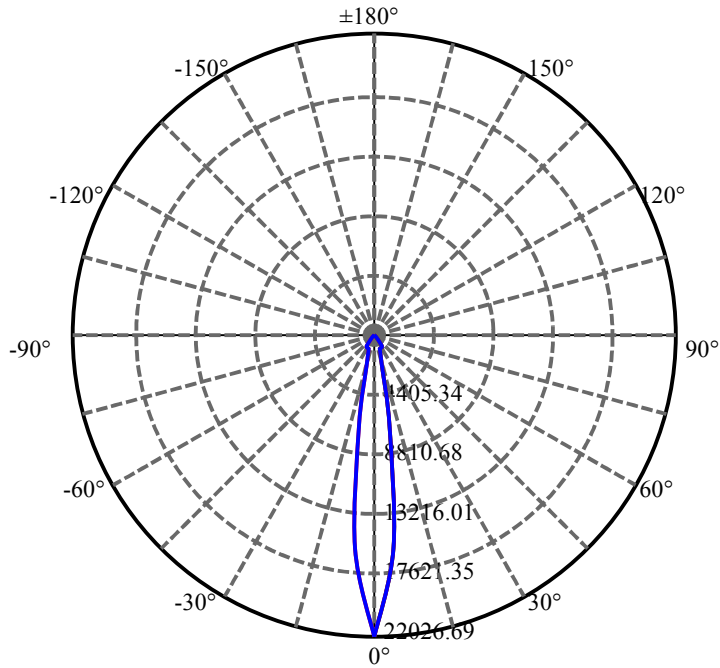
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	22026.689	131.724	131.724	4.176%	4.463%
5.0	15563.068	743.499	875.223	23.573%	29.651%
10.0	6772.157	644.595	1519.818	20.437%	51.489%
15.0	2262.405	320.964	1840.782	10.176%	62.362%
20.0	1242.127	232.867	2073.649	7.383%	70.251%
25.0	1058.597	245.227	2318.876	7.775%	78.559%
30.0	993.286	272.229	2591.104	8.631%	87.782%
35.0	704.667	221.546	2812.651	7.024%	95.287%
40.0	211.761	74.611	2887.261	2.366%	97.815%
45.0	18.568	7.197	2894.458	.228%	98.059%
50.0	15.141	6.357	2900.816	.202%	98.274%
55.0	14.535	6.526	2907.342	.207%	98.495%
60.0	14.094	6.691	2914.033	.212%	98.722%
65.0	13.626	6.769	2920.802	.215%	98.951%
70.0	13.296	6.849	2927.65	.217%	99.183%
75.0	13.035	6.901	2934.552	.219%	99.417%
80.0	12.828	6.925	2941.477	.220%	99.652%
85.0	12.567	6.862	2948.339	.218%	99.884%
90.0	12.457	3.414	2951.753	.108%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2591.10	82.15%	87.78%
0-40	2887.26	91.54%	97.82%
0-60	2914.03	92.39%	98.72%
0-90	2948.34	93.48%	99.88%
0-120	2948.34	93.48%	99.88%
0-180	2951.75	93.59%	100.00%
60-90	41.00	1.30%	1.39%
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%
0-25.78	2361.40	74.87%	80.00%

ZONAL LUMEN SUMMARY

0-10	1519.82
10-20	553.83
20-30	517.46
30-40	296.16
40-50	13.55
50-60	13.22
60-70	13.62
70-80	13.83
80-90	6.86
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): —————

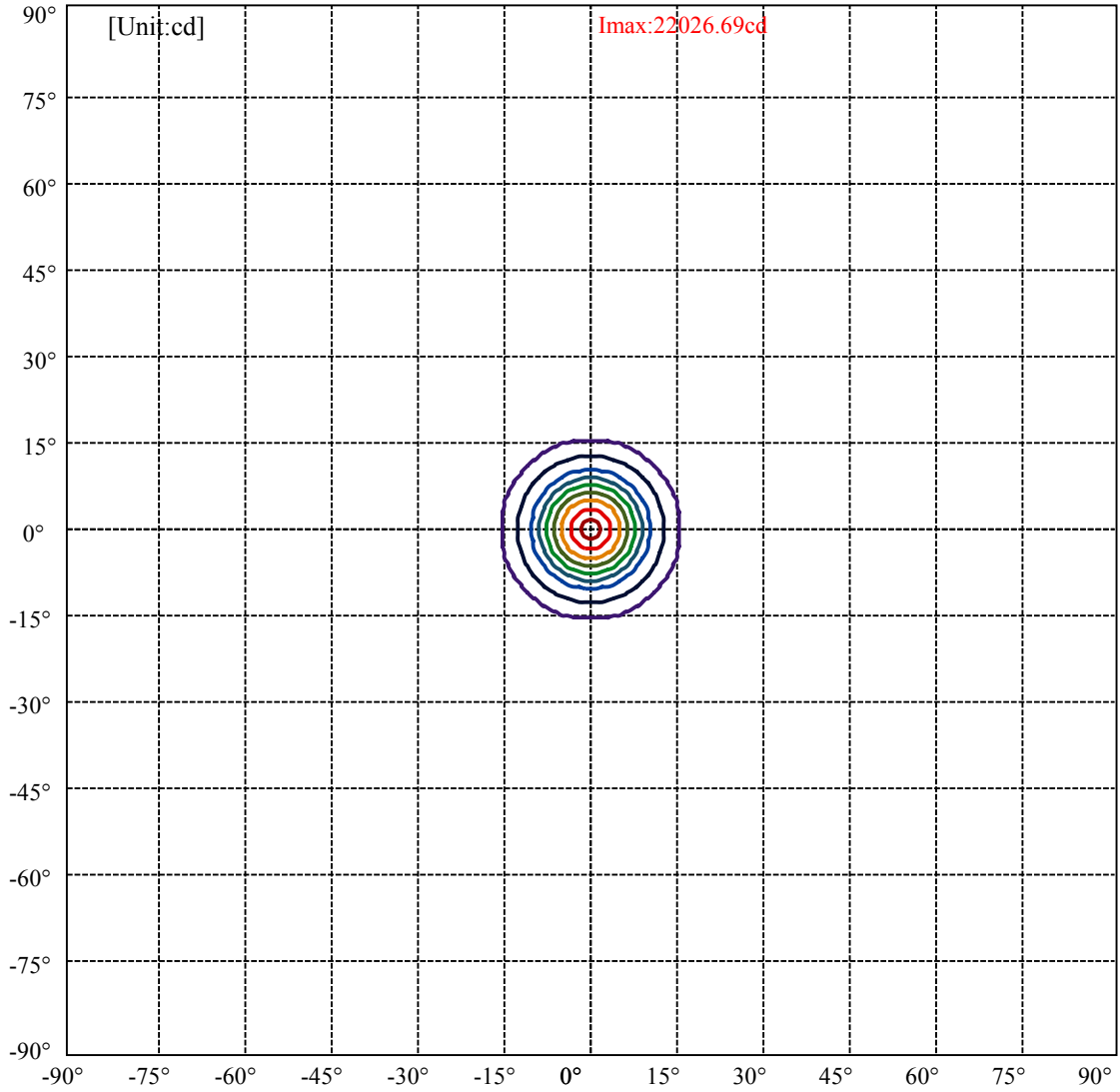
C0/C180: —————

C90/C270: —————

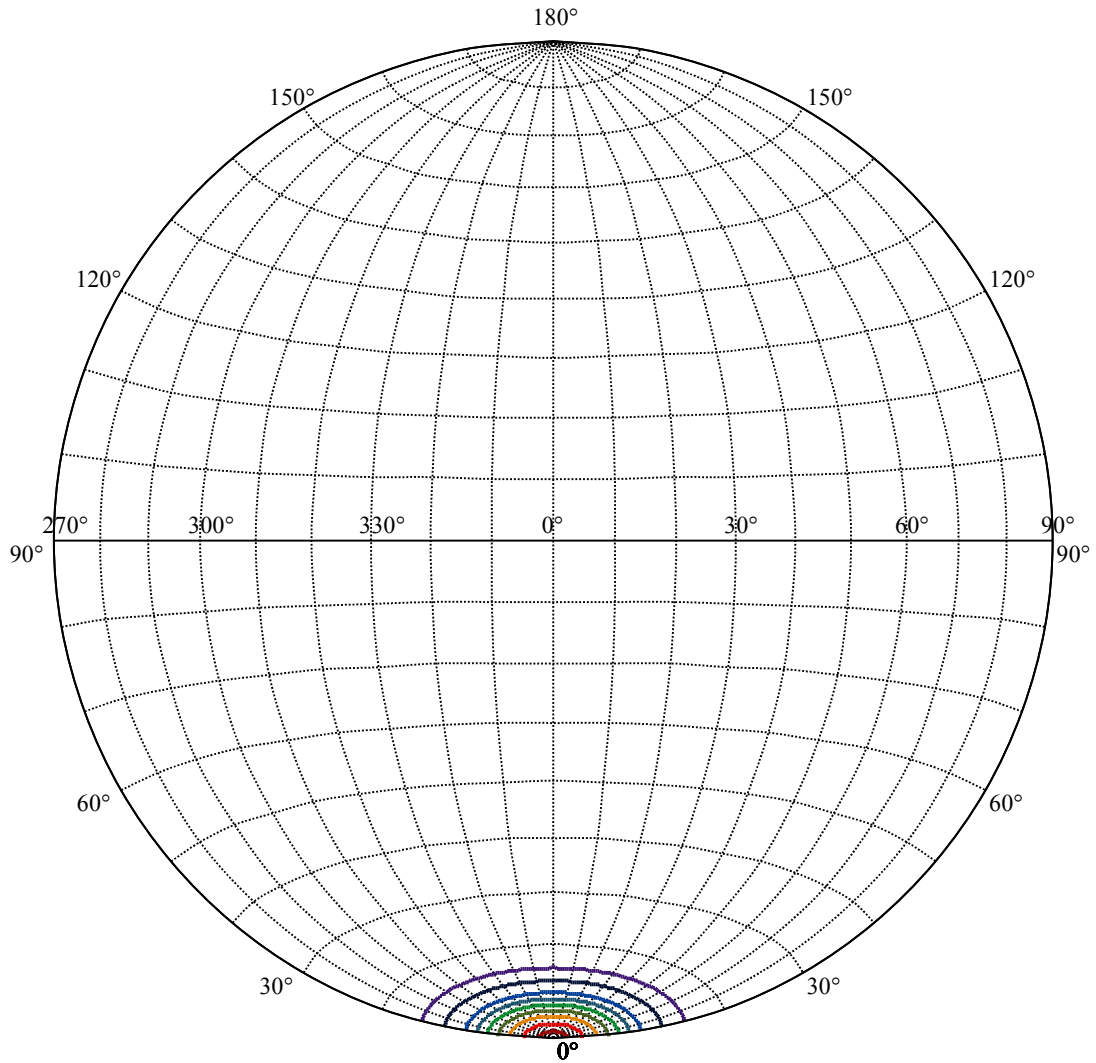
Field angle(10%Imax):C0/180Left:15.3 Right:15.3  
:C90/270Left:15.3 Right:15.3

Beam Angle(50%Imax):C0/180Left:7.6 Right:7.6  
:C90/270Left:7.6 Right:7.6





(10%Imax) 2202.67	—
(20%Imax) 4405.34	—
(30%Imax) 6608.01	—
(40%Imax) 8810.67	—
(50%Imax) 11013.3	—
(60%Imax) 13216	—
(70%Imax) 15418.7	—
(80%Imax) 17621.3	—
(90%Imax) 19824	—



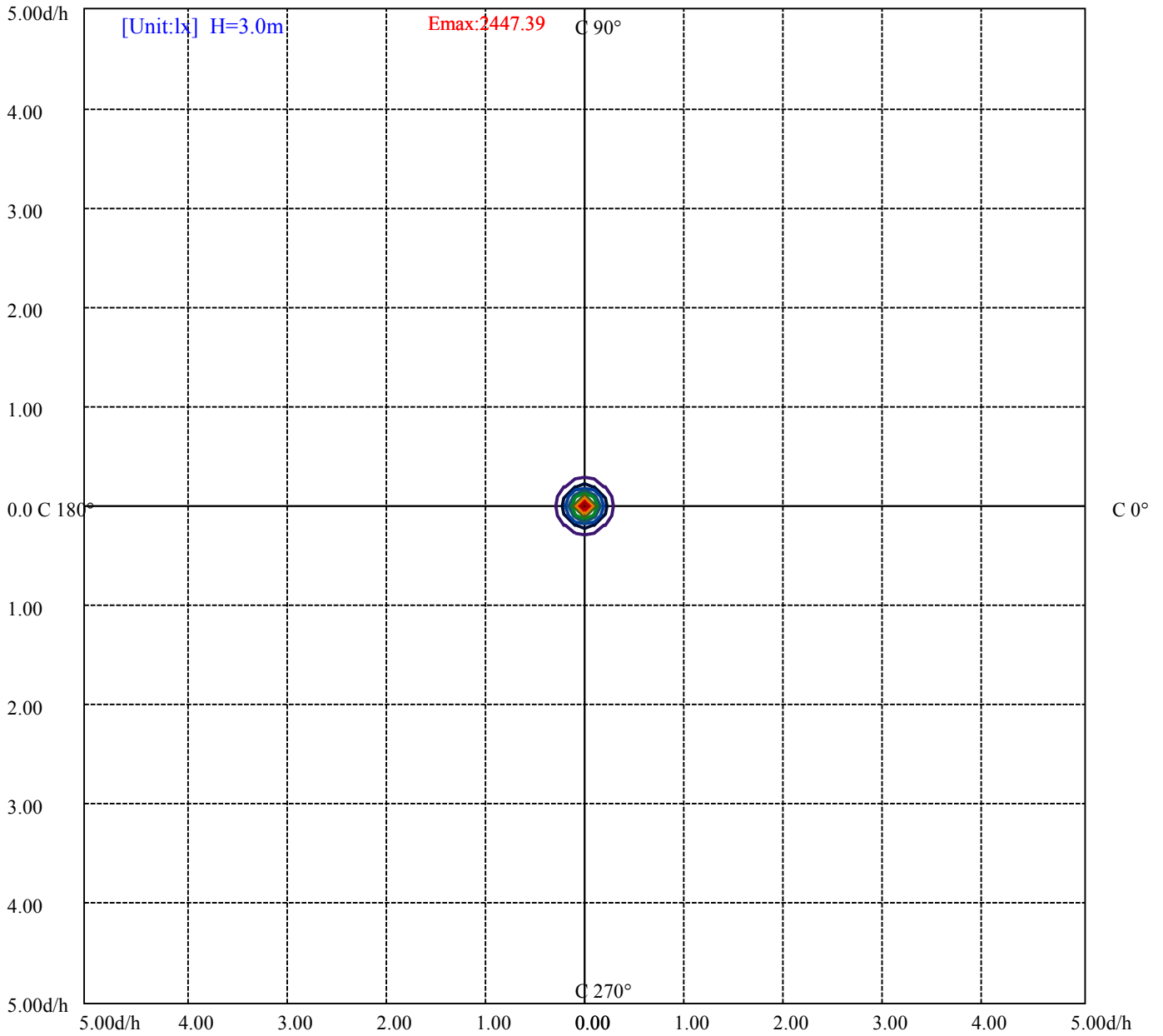
House

[Unit:cd]

Road

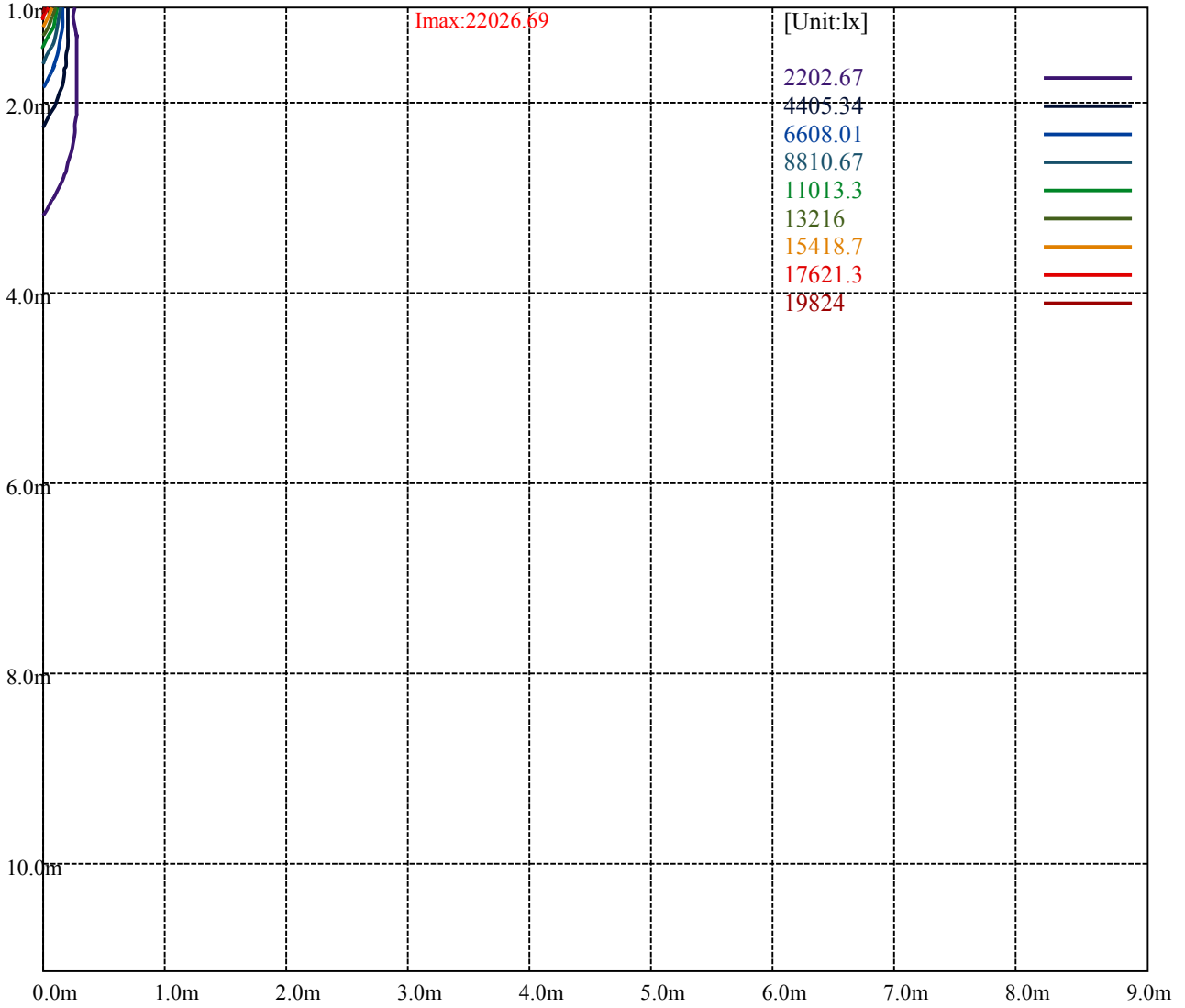
Imax:22026.69

(10%Imax)	2202.67	—
(20%Imax)	4405.34	—
(30%Imax)	6608.01	—
(40%Imax)	8810.67	—
(50%Imax)	11013.3	—
(60%Imax)	13216	—
(70%Imax)	15418.7	—
(80%Imax)	17621.3	—
(90%Imax)	19824	—



- (10%Emax) 244.7389
- (20%Emax) 489.4778
- (30%Emax) 734.2167
- (40%Emax) 978.9555
- (50%Emax) 1223.689
- (60%Emax) 1468.433
- (70%Emax) 1713.167
- (80%Emax) 1957.911
- (90%Emax) 2202.645





Luminance Table

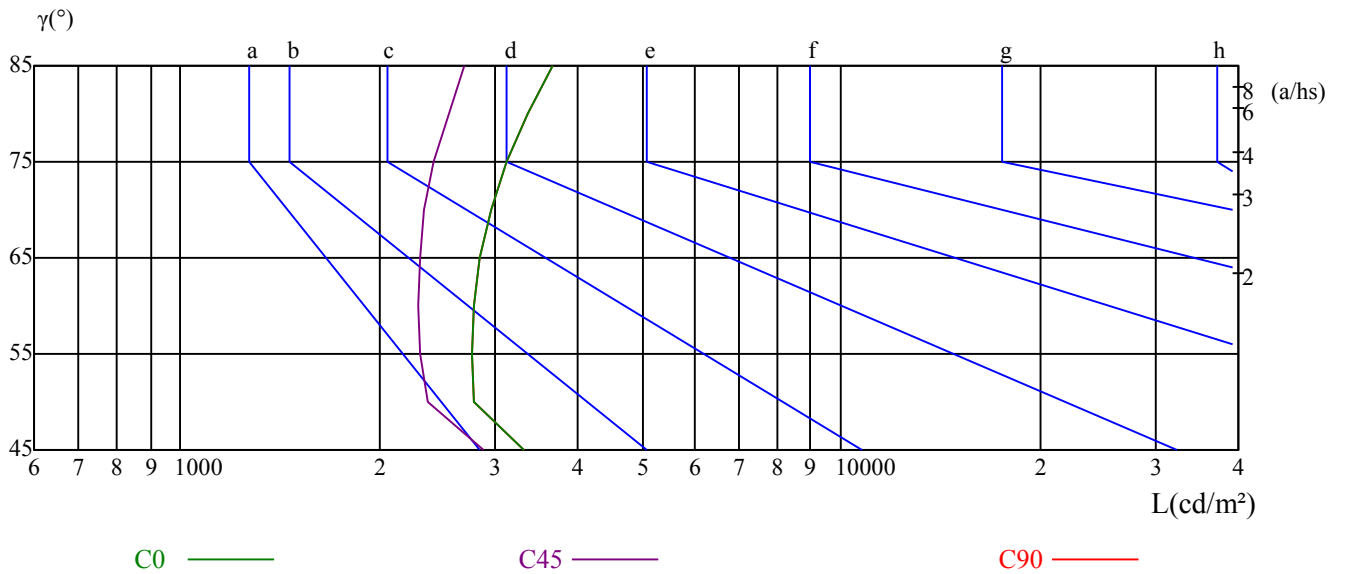
$\gamma$	45	50	55	60	65	70	75	80	85
C0	3320	2775	2755	2787	2840	2952	3122	3362	3668
C45	2868	2362	2308	2297	2298	2343	2423	2544	2692
C90	3320	2775	2755	2787	2840	2952	3122	3362	3668

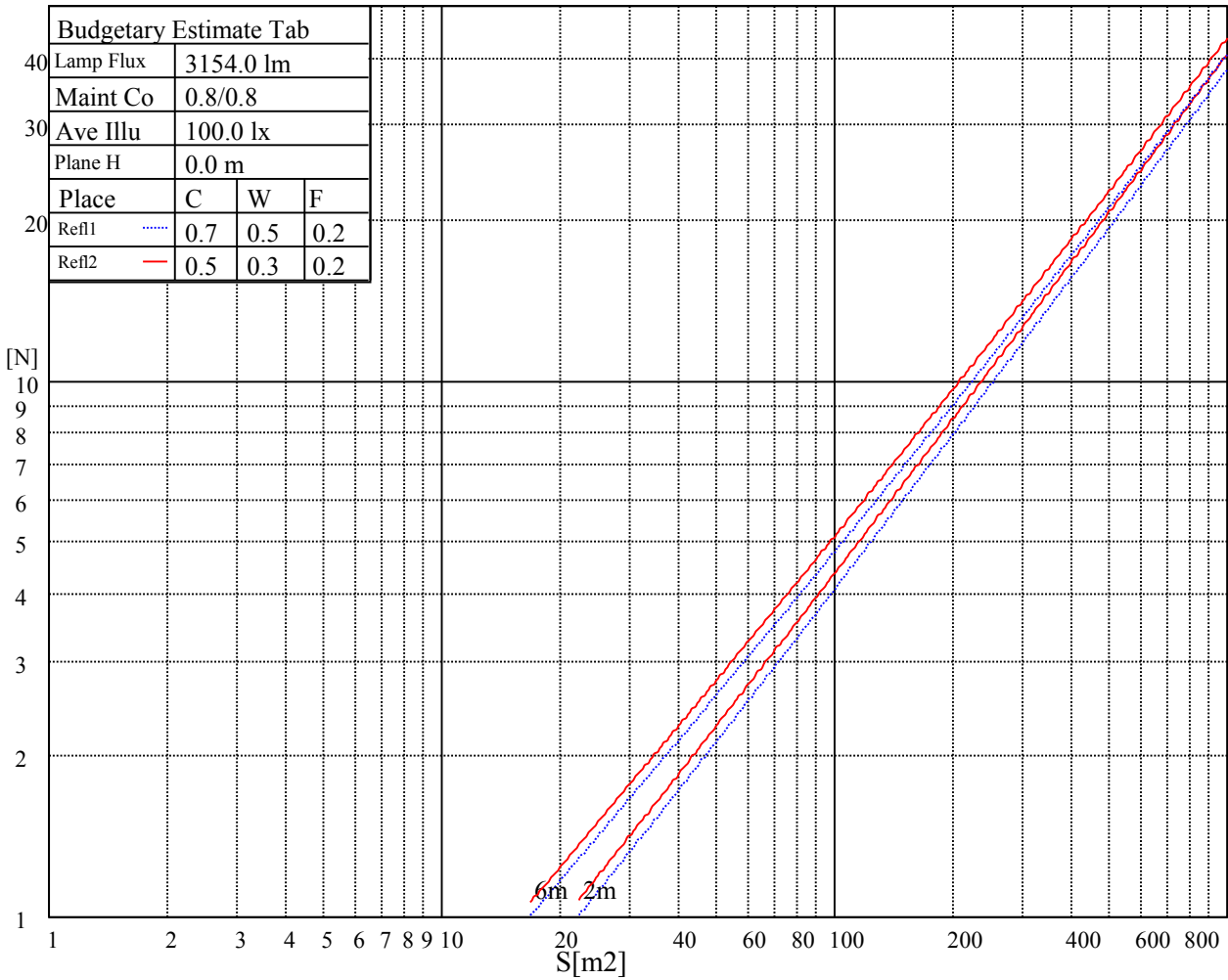
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
6580	6580	6580	10278	10278	10278	29426	29426	29426

Glare Table

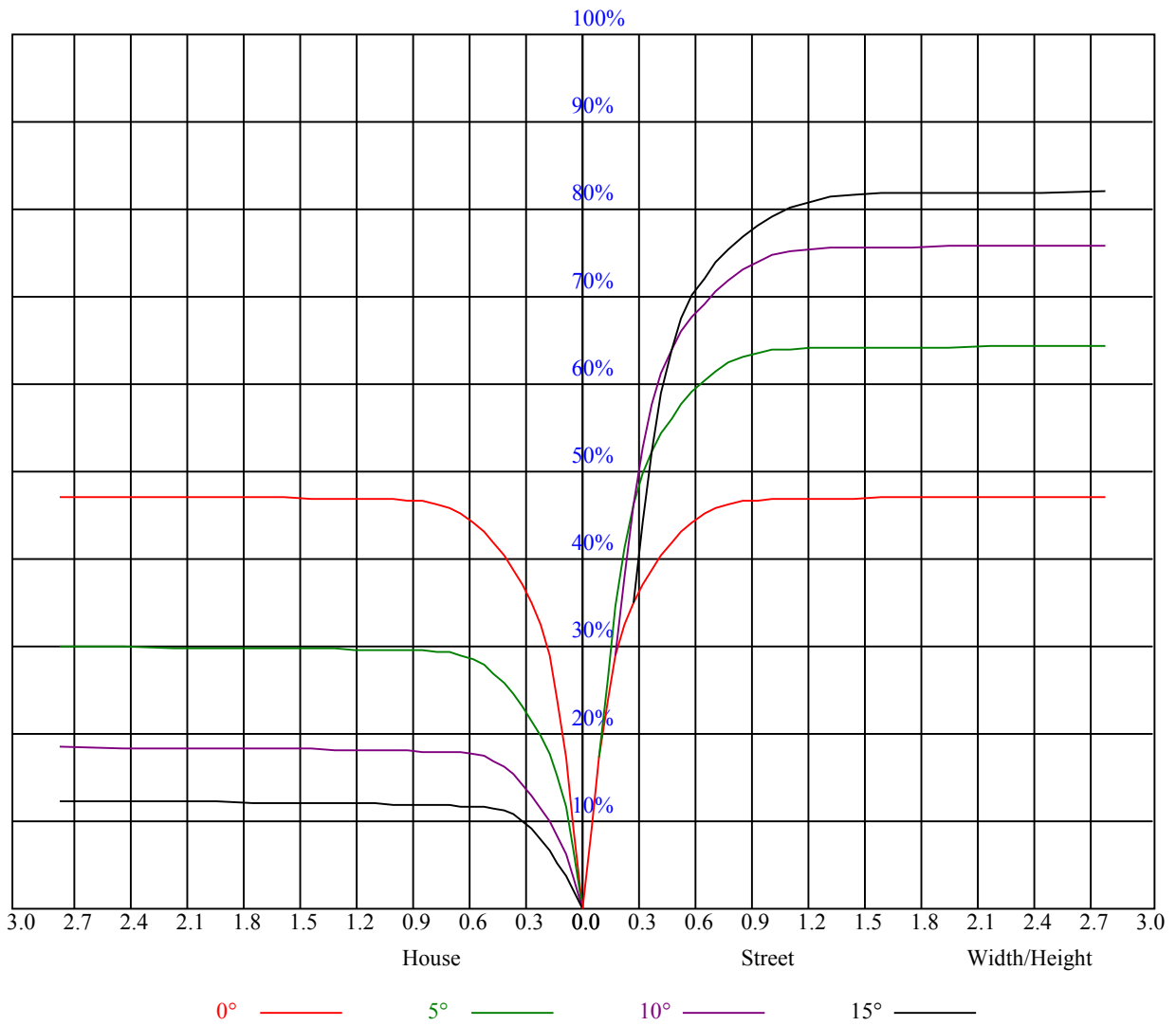
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	1.16	1.16	1.16	1.14	1.14	1.14	1.09	1.09	1.09	1.04	1.04	1.04	1.00	1.00	1.00	0.98
1	1.04	1.01	0.98	1.02	0.99	0.96	0.98	0.96	0.93	0.94	0.92	0.91	0.91	0.89	0.88	0.86
2	0.99	0.95	0.91	0.97	0.94	0.90	0.94	0.91	0.88	0.91	0.89	0.86	0.89	0.86	0.85	0.83
3	0.95	0.90	0.86	0.93	0.89	0.85	0.91	0.87	0.84	0.88	0.85	0.83	0.86	0.84	0.82	0.80
4	0.91	0.86	0.82	0.90	0.85	0.82	0.88	0.84	0.81	0.86	0.82	0.80	0.84	0.81	0.79	0.77
5	0.87	0.82	0.79	0.86	0.82	0.78	0.85	0.81	0.78	0.83	0.80	0.77	0.82	0.79	0.76	0.75
6	0.84	0.79	0.76	0.83	0.79	0.76	0.82	0.78	0.75	0.81	0.77	0.75	0.80	0.77	0.74	0.73
7	0.81	0.77	0.73	0.81	0.76	0.73	0.80	0.76	0.73	0.79	0.75	0.72	0.78	0.74	0.72	0.71
8	0.79	0.74	0.71	0.78	0.74	0.71	0.78	0.74	0.71	0.77	0.73	0.70	0.76	0.73	0.70	0.69
9	0.77	0.72	0.69	0.76	0.72	0.69	0.76	0.72	0.69	0.75	0.71	0.69	0.74	0.71	0.69	0.67
10	0.75	0.70	0.67	0.74	0.70	0.67	0.74	0.70	0.67	0.73	0.70	0.67	0.72	0.69	0.67	0.66



Intensity data(cd)

C/ $\gamma$ (°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	21923.46	15096.46	6487.57	2531.77	1226.93	1049.32	993.16	727.57	223.14
45.0	21884.92	14885.87	7079.04	2276.31	1243.01	1061.82	993.77	691.84	186.53
90.0	22308.85	17384.06	6442.98	1965.24	1255.56	1061.43	992.45	707.42	250.84
135.0	21989.53	14885.87	7079.04	2276.31	1243.01	1061.82	993.77	691.84	186.53
180.0	21923.46	15096.46	6487.57	2531.77	1226.93	1049.32	993.16	727.57	223.14
225.0	21884.92	14885.87	7079.04	2276.31	1243.01	1061.82	993.77	691.84	186.53
270.0	22308.85	17384.06	6442.98	1965.24	1255.56	1061.43	992.45	707.42	250.84
315.0	21989.53	14885.87	7079.04	2276.31	1243.01	1061.82	993.77	691.84	186.53
360.0	21923.46	15096.46	6487.57	2531.77	1226.93	1049.32	993.16	727.57	223.14

C/ $\gamma$ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	18.06	14.48	14.09	13.76	13.16	12.77	12.61	12.44	12.39
45.0	18.72	15.14	14.53	14.15	13.71	13.38	13.10	12.88	12.61
90.0	18.77	15.80	14.98	14.31	13.93	13.65	13.32	13.10	12.66
135.0	18.72	15.14	14.53	14.15	13.71	13.38	13.10	12.88	12.61
180.0	18.06	14.48	14.09	13.76	13.16	12.77	12.61	12.44	12.39
225.0	18.72	15.14	14.53	14.15	13.71	13.38	13.10	12.88	12.61
270.0	18.77	15.80	14.98	14.31	13.93	13.65	13.32	13.10	12.66
315.0	18.72	15.14	14.53	14.15	13.71	13.38	13.10	12.88	12.61
360.0	18.06	14.48	14.09	13.76	13.16	12.77	12.61	12.44	12.39

C/ $\gamma$ (°)	90.0
0.0	12.33
45.0	12.50
90.0	12.50
135.0	12.50
180.0	12.33
225.0	12.50
270.0	12.50
315.0	12.50
360.0	12.33