



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: 1-0928-M	
Luminaire: 92.70.124.00	
Report No: 210715-B001	Voltage(V): 36.4900
Test No: 210715-C001	Current(A): 0.3050
LampCAT: Fortimo LED SLM 1202 G7N	Power (W): 11.1290
Lamp flux(lm): 1428.3	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 570	Width(mm): 45
Phm Type: C	Height(mm): 20

---

## Photometric Results

---

Lumens(lm): 1083.87  
Efficiency(%): 75.88%  
Lumens(lm)/Power(W): 97.39  
Central intensity(cd): 3295.125  
Maximum intensity(cd): 3295.125  
Angle of maximum intensity: C=0.0  $\gamma$ =0.0  
Beam Angle(50%Imax): [C0/180]Total=35.1  
                                  [C90/270]Total=35.1  
Field angle(10%Imax): [C0/180]Total=49.7  
                                  [C90/270]Total=49.7  
Maximum s/h(1/2): C0\_180=0.59 C90\_270=0.59  
Maximum s/h(1/4): C0\_180=0.54 C90\_270=0.54  
Up flux rate of lamp(%): 0.00%  
Down flux rate of lamp(%): 75.88%  
Up flux rate of LUM(%): - -  
Down flux rate of LUM(%): 100.00%  
CIE Type : Direct lighting  
Output flux ratio in  $\pi$  solid angle : 98.601%

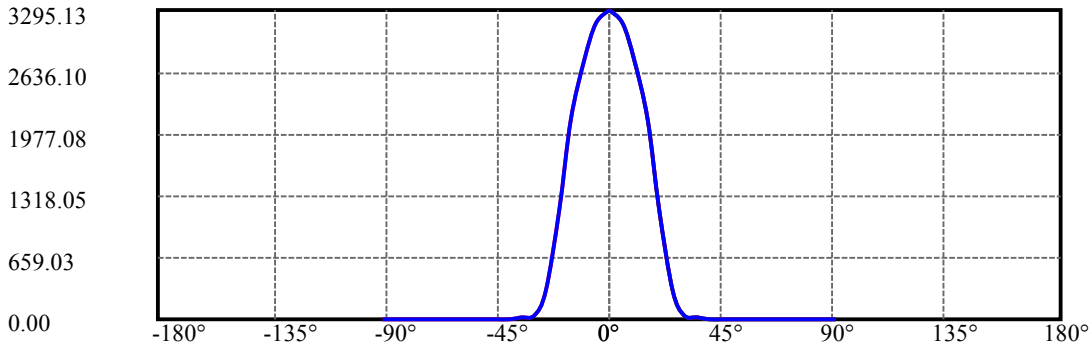
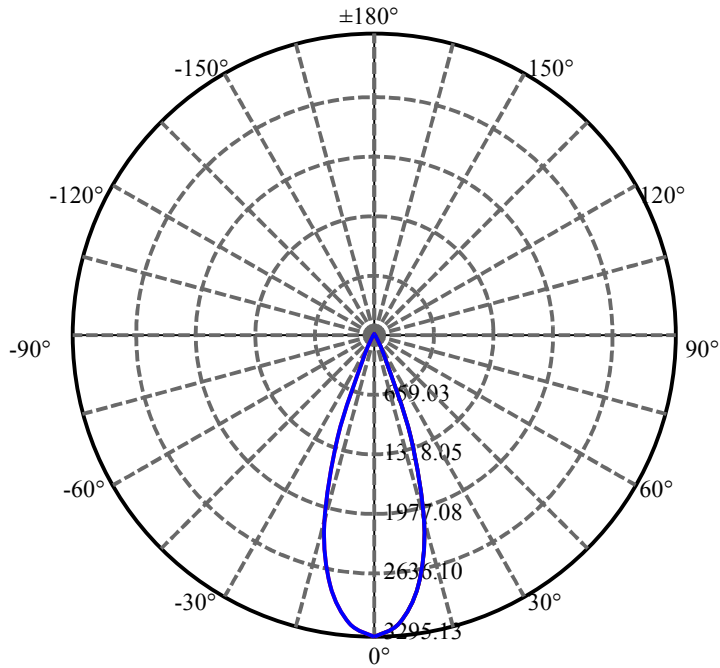
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3295.125	0.000	0	.000%	.000%
5.0	3160.055	77.170	77.17	5.403%	7.120%
10.0	2768.133	212.070	289.24	14.848%	26.686%
15.0	2132.227	290.686	579.926	20.352%	53.505%
20.0	1174.591	272.528	852.454	19.080%	78.649%
25.0	303.202	154.993	1007.447	10.852%	92.949%
30.0	32.927	42.537	1049.985	2.978%	96.874%
35.0	10.280	6.363	1056.347	.445%	97.461%
40.0	7.200	2.916	1059.264	.204%	97.730%
45.0	6.012	2.446	1061.71	.171%	97.956%
50.0	5.498	2.326	1064.036	.163%	98.170%
55.0	5.175	2.321	1066.356	.162%	98.384%
60.0	5.006	2.353	1068.71	.165%	98.601%
65.0	4.915	2.412	1071.122	.169%	98.824%
70.0	4.852	2.473	1073.594	.173%	99.052%
75.0	4.795	2.522	1076.116	.177%	99.285%
80.0	4.781	2.562	1078.678	.179%	99.521%
85.0	4.753	2.591	1081.269	.181%	99.760%
90.0	4.739	2.599	1083.868	.182%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1049.98	73.51%	96.87%
0-40	1059.26	74.16%	97.73%
0-60	1068.71	74.82%	98.60%
0-90	1081.27	75.70%	99.76%
0-120	1081.27	75.70%	99.76%
0-180	1083.87	75.88%	100.00%
60-90	14.91	1.04%	1.38%
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%
0-20.47	867.09	60.71%	80.00%

ZONAL LUMEN SUMMARY

0-10	289.24
10-20	563.21
20-30	197.53
30-40	9.28
40-50	4.77
50-60	4.67
60-70	4.88
70-80	5.08
80-90	2.59
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: —————

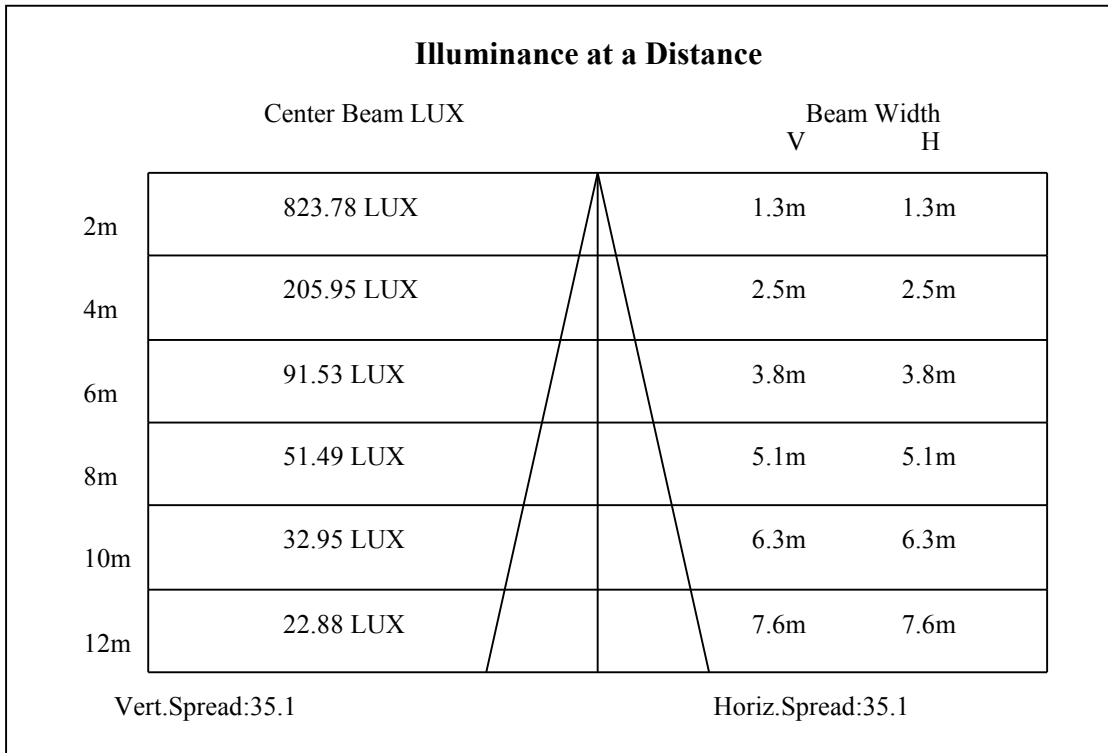
C90/C270: —————

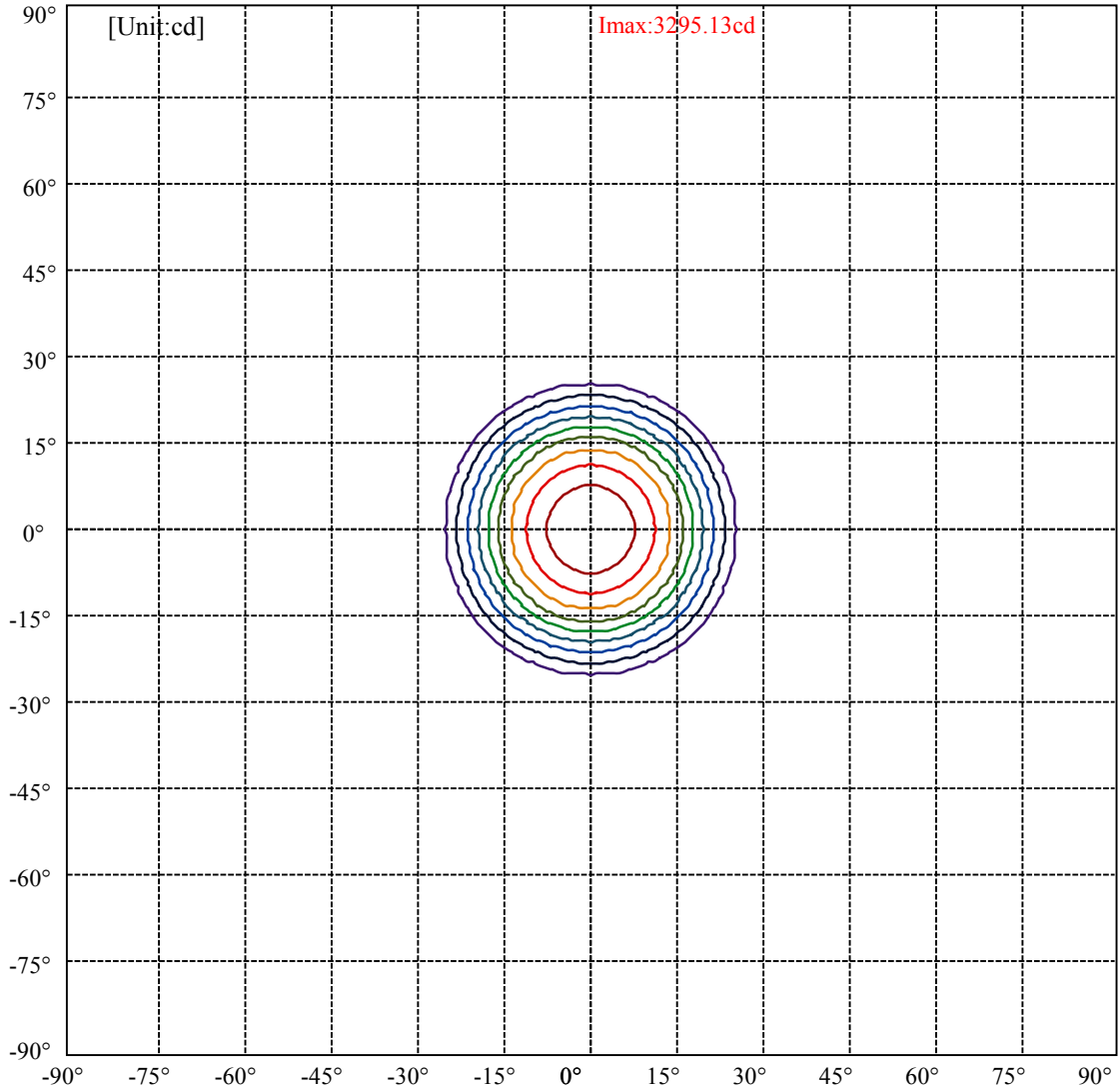
Field angle(10%Imax):C0/180Left:24.8 Right:24.8

:C90/270Left:24.8 Right:24.8

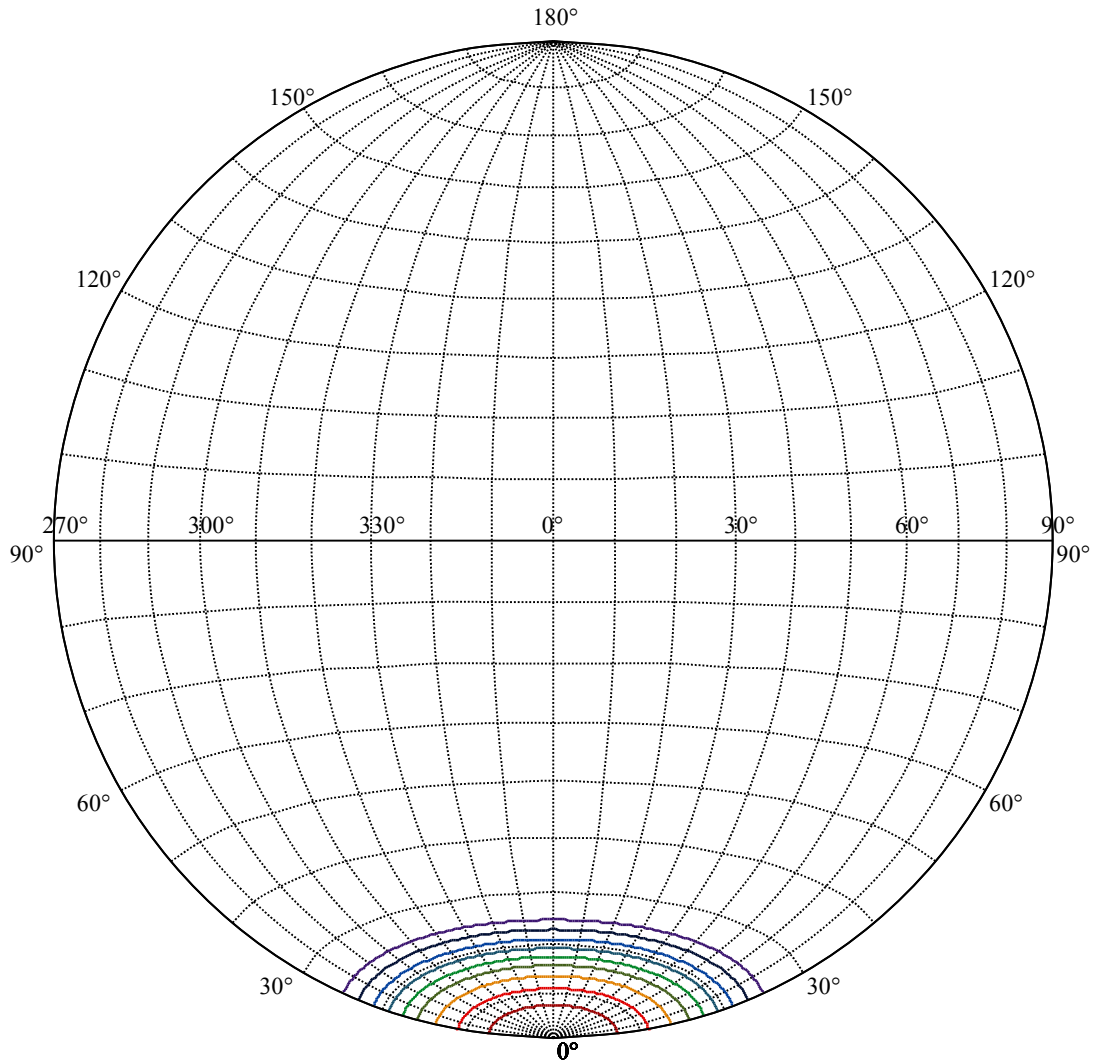
Beam Angle(50%Imax):C0/180Left:17.5 Right:17.5

:C90/270Left:17.5 Right:17.5





(10%Imax) 329.513	—
(20%Imax) 659.025	—
(30%Imax) 988.537	—
(40%Imax) 1318.05	—
(50%Imax) 1647.56	—
(60%Imax) 1977.07	—
(70%Imax) 2306.59	—
(80%Imax) 2636.1	—
(90%Imax) 2965.61	—



House

[Unit:cd]

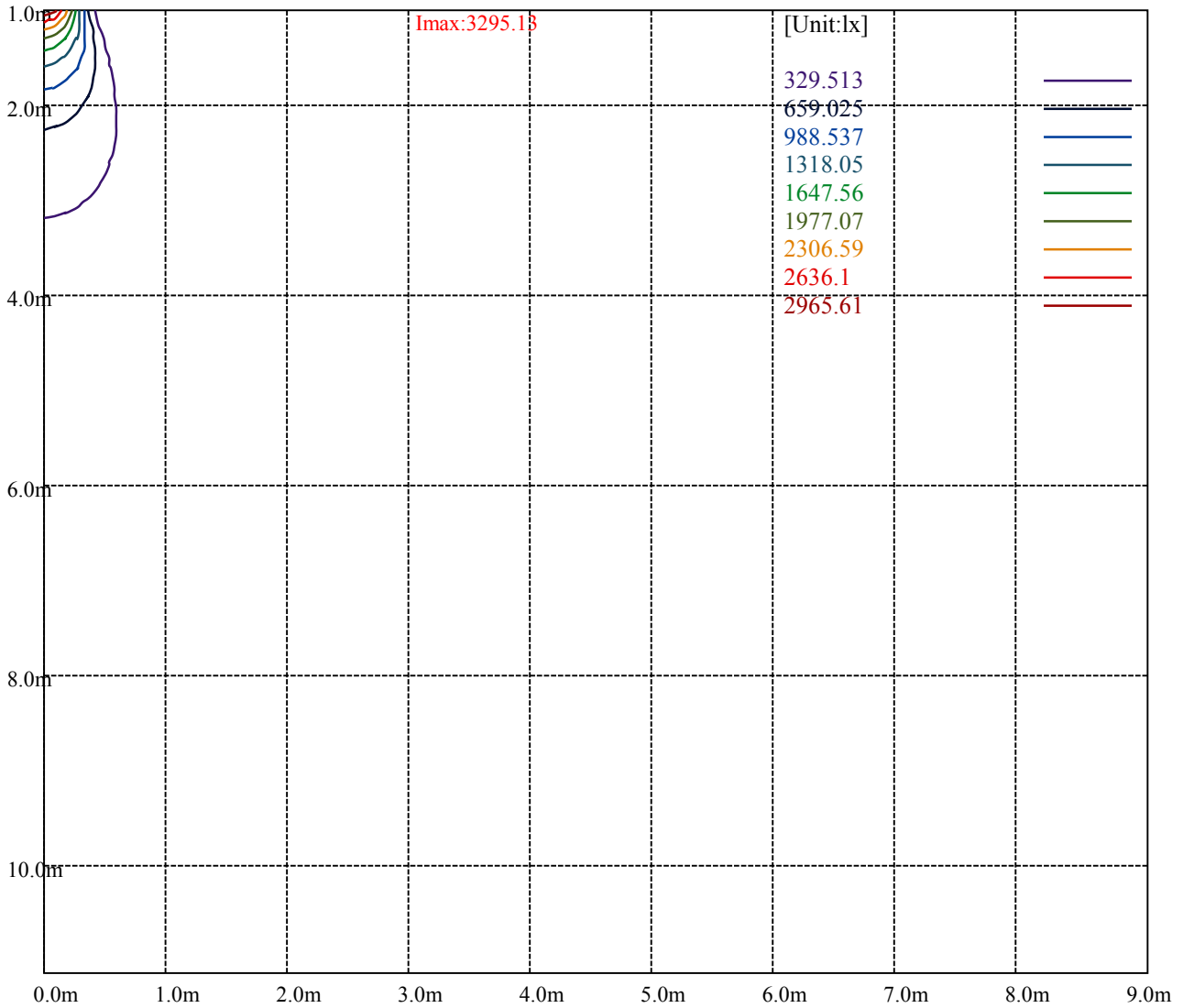
Road

**Imax:3295.13**

(10%Imax) 329.513	—
(20%Imax) 659.025	—
(30%Imax) 988.537	—
(40%Imax) 1318.05	—
(50%Imax) 1647.56	—
(60%Imax) 1977.07	—
(70%Imax) 2306.59	—
(80%Imax) 2636.1	—
(90%Imax) 2965.61	—







Luminance Table

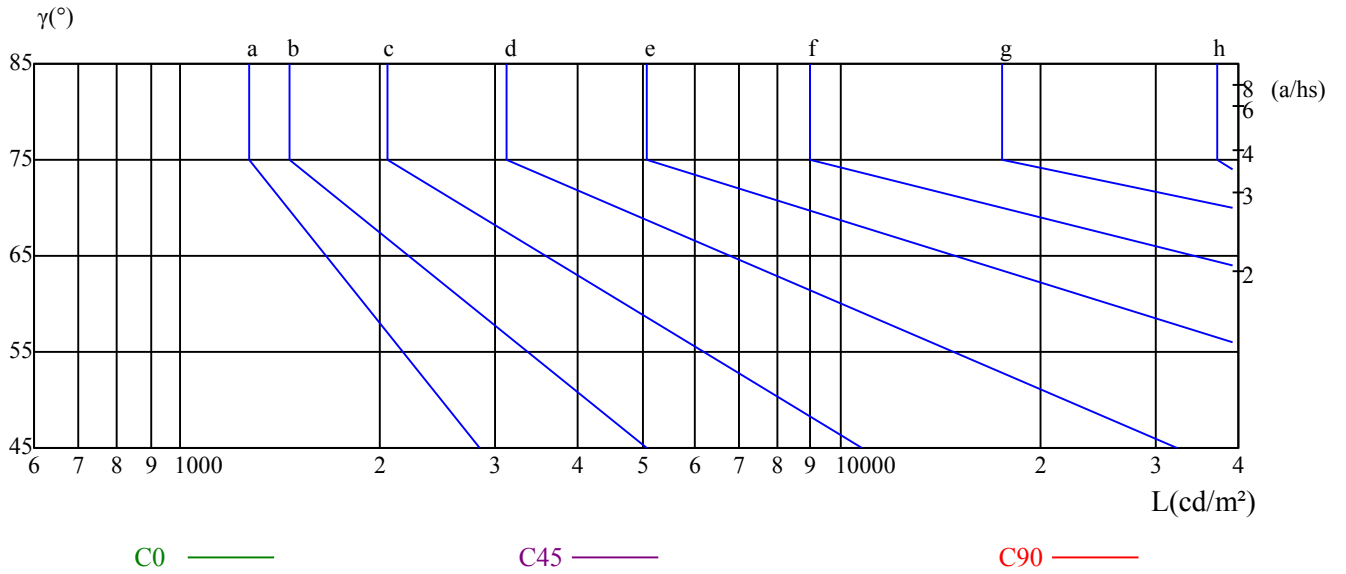
$\gamma$	45	50	55	60	65	70	75	80	85
C0	229	218	215	221	232	249	272	305	350
C45	248	238	237	246	263	286	319	367	436
C90	320	320	335	368	422	504	639	895	1518

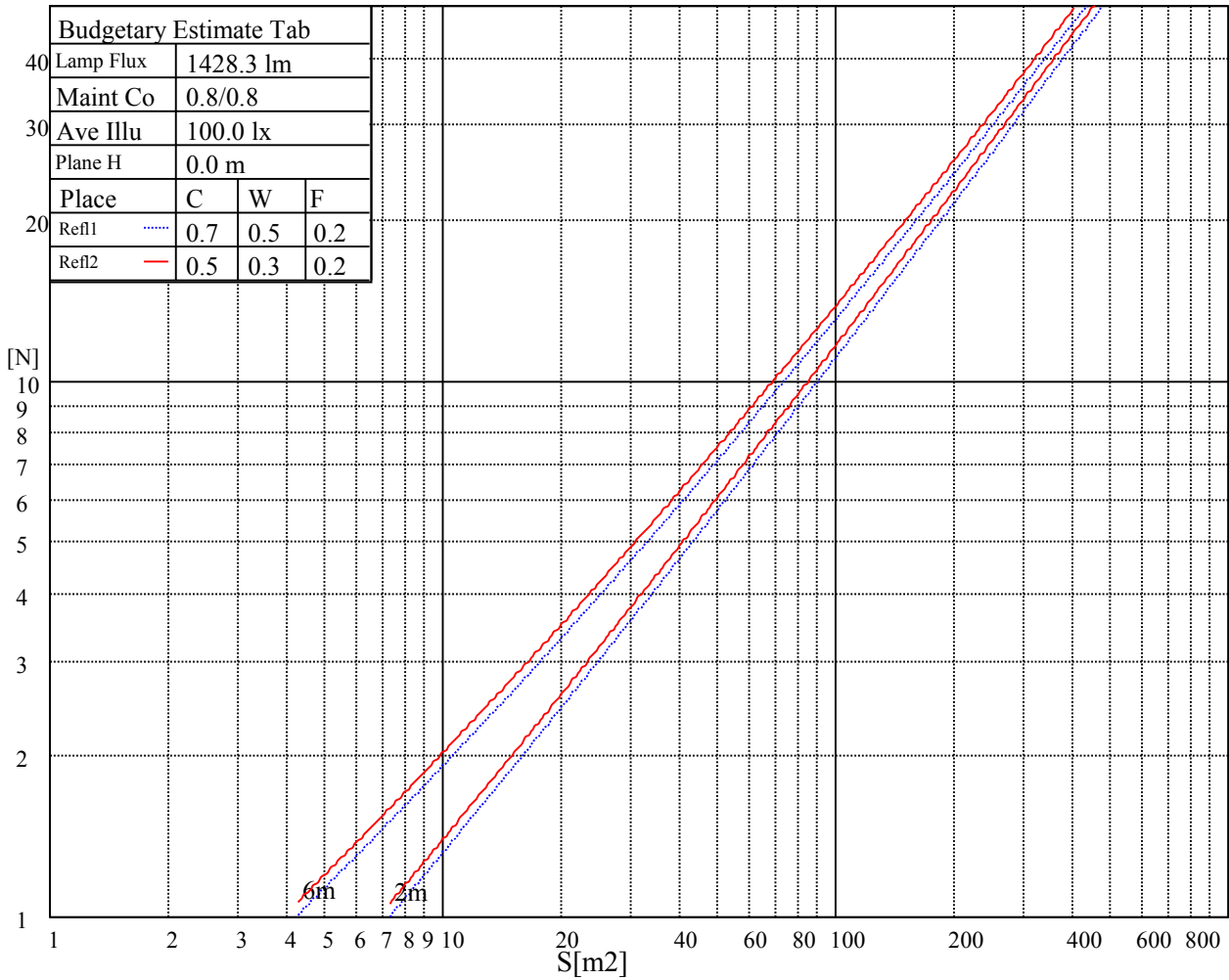
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
453	453	453	722	722	722	2126	2126	2126

Glare Table

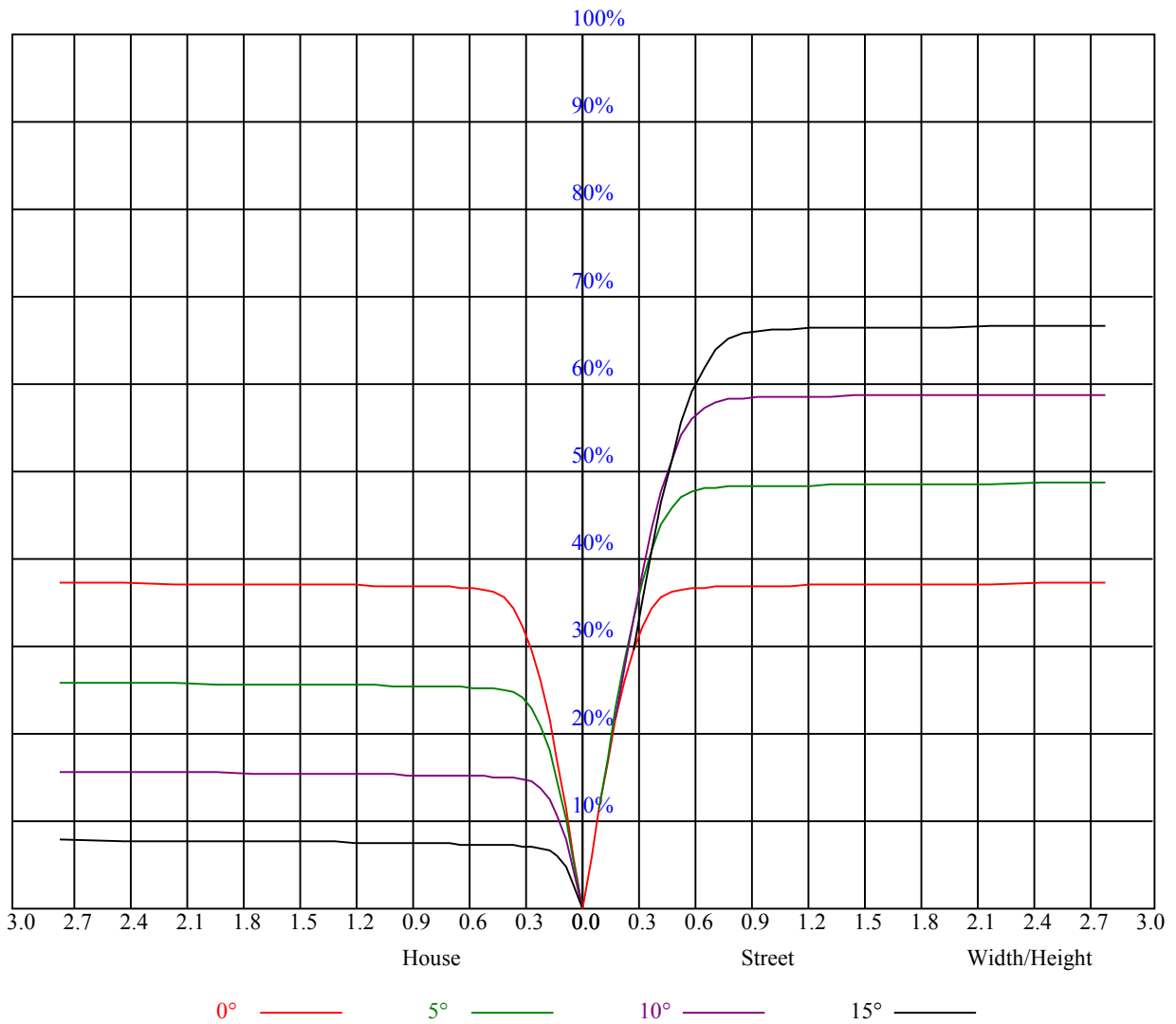
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.90	0.90	0.90	0.88	0.88	0.88	0.84	0.84	0.84	0.81	0.81	0.81	0.77	0.77	0.77	0.76
1	0.85	0.84	0.82	0.84	0.82	0.81	0.81	0.79	0.78	0.78	0.77	0.76	0.75	0.75	0.74	0.73
2	0.81	0.79	0.76	0.80	0.77	0.76	0.77	0.76	0.74	0.75	0.74	0.72	0.73	0.72	0.71	0.70
3	0.77	0.74	0.72	0.76	0.74	0.71	0.74	0.72	0.70	0.73	0.71	0.69	0.71	0.70	0.68	0.67
4	0.74	0.71	0.68	0.73	0.70	0.68	0.72	0.69	0.67	0.70	0.68	0.67	0.69	0.67	0.66	0.65
5	0.71	0.68	0.65	0.71	0.67	0.65	0.69	0.67	0.65	0.68	0.66	0.64	0.67	0.65	0.64	0.63
6	0.69	0.65	0.63	0.68	0.65	0.63	0.67	0.64	0.62	0.66	0.64	0.62	0.65	0.63	0.61	0.61
7	0.66	0.63	0.60	0.66	0.63	0.60	0.65	0.62	0.60	0.64	0.62	0.60	0.63	0.61	0.59	0.59
8	0.64	0.61	0.58	0.64	0.60	0.58	0.63	0.60	0.58	0.62	0.60	0.58	0.62	0.59	0.58	0.57
9	0.62	0.59	0.56	0.62	0.58	0.56	0.61	0.58	0.56	0.60	0.58	0.56	0.60	0.58	0.56	0.55
10	0.60	0.57	0.55	0.60	0.57	0.55	0.59	0.56	0.54	0.59	0.56	0.54	0.58	0.56	0.54	0.53



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	3287.81	3220.31	2903.63	2411.44	1541.25	475.31	56.76	12.88	7.88
45.0	3300.75	3165.19	2836.69	2180.81	1258.88	309.38	35.61	10.29	7.20
90.0	3291.19	3105.00	2597.63	1906.88	916.31	122.57	22.22	8.94	6.75
135.0	3300.75	3146.06	2693.25	2007.56	1090.13	318.38	24.58	9.34	6.98
180.0	3287.81	3080.81	2604.38	1875.94	922.73	124.54	19.07	8.49	6.75
225.0	3300.75	3140.44	2765.25	2113.88	1086.08	236.19	27.79	9.56	6.98
270.0	3291.19	3214.13	2905.88	2360.25	1485.56	491.63	44.44	11.59	7.65
315.0	3300.75	3208.50	2838.38	2201.06	1095.81	347.63	32.96	11.14	7.43
360.0	3287.81	3220.31	2903.63	2411.44	1541.25	475.31	56.76	12.88	7.88
C/ $\gamma$ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	6.30	5.68	5.29	5.12	5.01	4.95	4.89	4.89	4.84
45.0	6.08	5.51	5.18	5.01	4.89	4.78	4.73	4.73	4.67
90.0	5.85	5.40	5.12	4.95	4.89	4.84	4.78	4.78	4.73
135.0	5.96	5.51	5.18	5.01	4.95	4.89	4.84	4.78	4.78
180.0	5.85	5.40	5.18	5.01	4.95	4.89	4.84	4.84	4.78
225.0	5.85	5.34	5.06	4.95	4.84	4.78	4.73	4.73	4.73
270.0	6.13	5.57	5.23	5.01	4.89	4.84	4.78	4.73	4.73
315.0	6.08	5.57	5.18	5.01	4.89	4.84	4.78	4.78	4.78
360.0	6.30	5.68	5.29	5.12	5.01	4.95	4.89	4.89	4.84
C/ $\gamma$ (°)	90.0								
0.0	4.84								
45.0	4.67								
90.0	4.67								
135.0	4.78								
180.0	4.78								
225.0	4.73								
270.0	4.67								
315.0	4.78								
360.0	4.84								