



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: 1-0938-N	
Luminaire: 92.70.246.00	
Report No: 210630-B001	Voltage(V): 39.6700
Test No: 210630-C001	Current(A): 0.2510
LampCAT: Fortimo LED SLM 1201 G7N	Power (W): 9.9570
Lamp flux(lm): 1156.7	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): 926.64
Efficiency(%): 80.11%
Lumens(lm)/Power(W): 93.06
Central intensity(cd): 1906.875
Maximum intensity(cd): 1906.875
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=41.8
 [C90/270]Total=41.8
Field angle(10%Imax): [C0/180]Total=62.5
 [C90/270]Total=62.5
Maximum s/h(1/2): C0_180=0.68 C90_270=0.68
Maximum s/h(1/4): C0_180=0.65 C90_270=0.65
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 80.11%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.079%

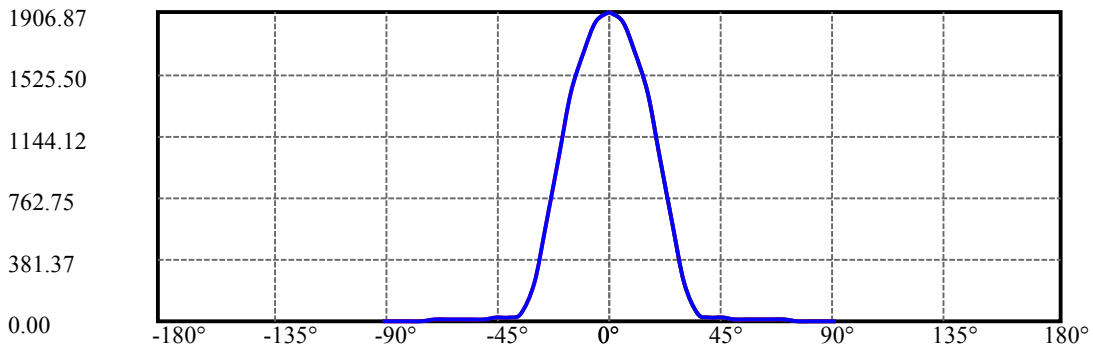
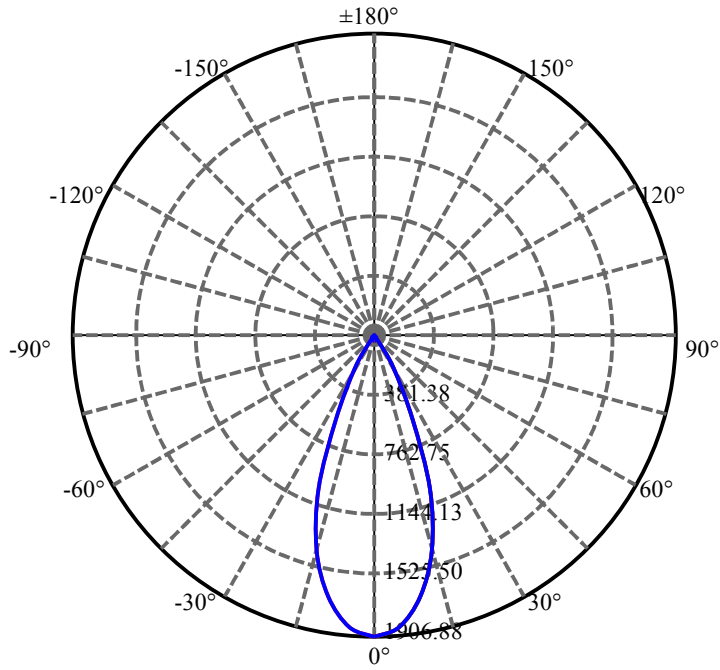
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1906.875	0.000	0	.000%	.000%
5.0	1847.883	44.887	44.887	3.881%	4.844%
10.0	1675.266	126.034	170.921	10.896%	18.445%
15.0	1406.180	182.789	353.71	15.803%	38.171%
20.0	1033.516	201.065	554.776	17.383%	59.870%
25.0	589.022	170.174	724.95	14.712%	78.235%
30.0	238.465	104.719	829.669	9.054%	89.536%
35.0	46.230	41.923	871.593	3.624%	94.060%
40.0	25.221	11.921	883.514	1.031%	95.346%
45.0	18.478	8.091	891.605	.700%	96.220%
50.0	14.618	6.688	898.292	.578%	96.941%
55.0	11.609	5.703	903.995	.493%	97.557%
60.0	9.330	4.840	908.835	.418%	98.079%
65.0	7.397	4.066	912.901	.352%	98.518%
70.0	6.089	3.415	916.316	.295%	98.886%
75.0	5.147	2.937	919.253	.254%	99.203%
80.0	4.641	2.619	921.872	.226%	99.486%
85.0	4.465	2.474	924.346	.214%	99.753%
90.0	3.895	2.289	926.635	.198%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	829.67	71.73%	89.54%
0-40	883.51	76.38%	95.35%
0-60	908.84	78.57%	98.08%
0-90	924.35	79.91%	99.75%
0-120	924.35	79.91%	99.75%
0-180	926.64	80.11%	100.00%
60-90	20.35	1.76%	2.20%
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	741.31	64.09%	80.00%

ZONAL LUMEN SUMMARY

0-10	170.92
10-20	383.85
20-30	274.89
30-40	53.84
40-50	14.78
50-60	10.54
60-70	7.48
70-80	5.56
80-90	2.47
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



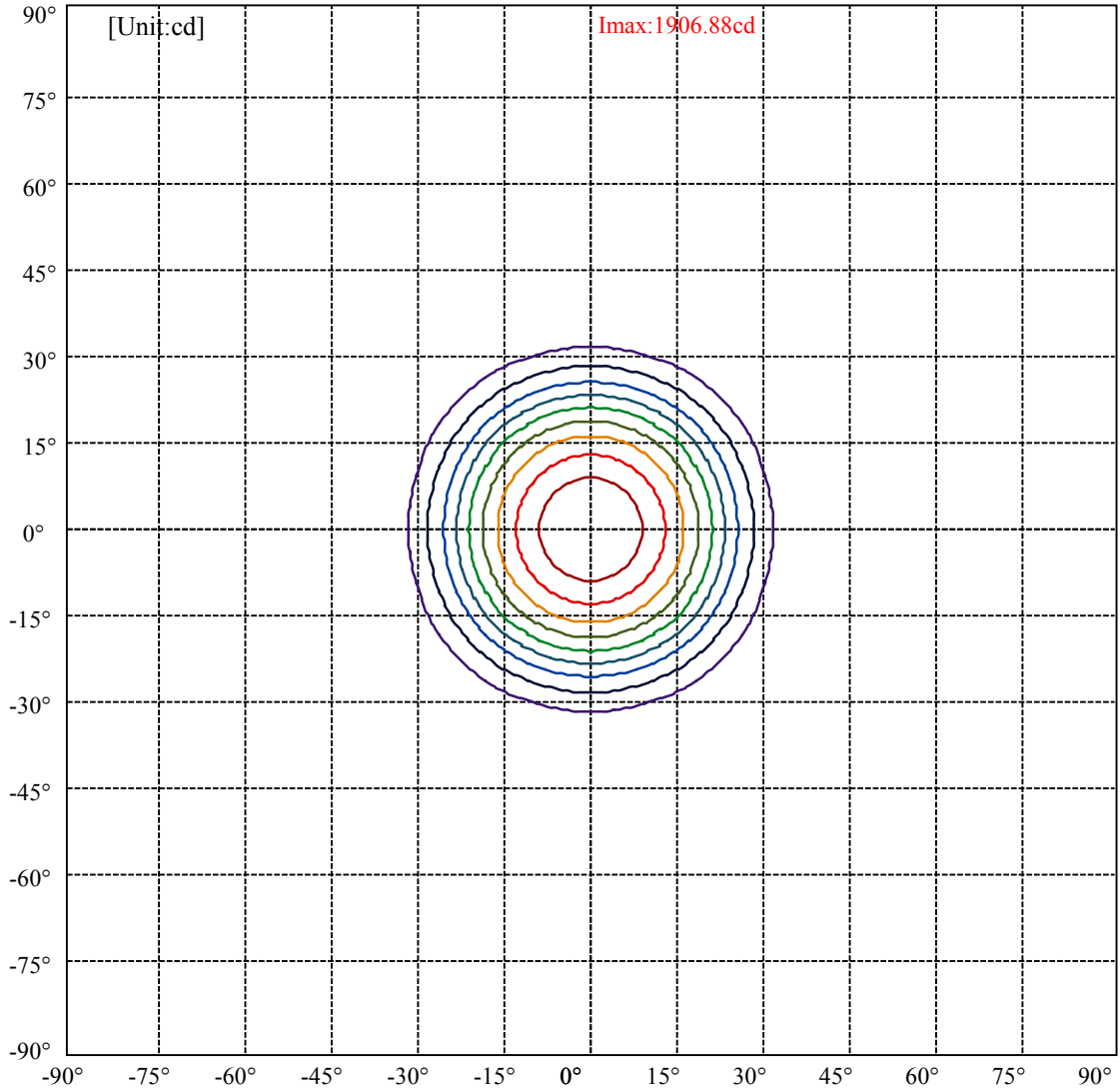
C0(Max): —————

C0/C180: —————

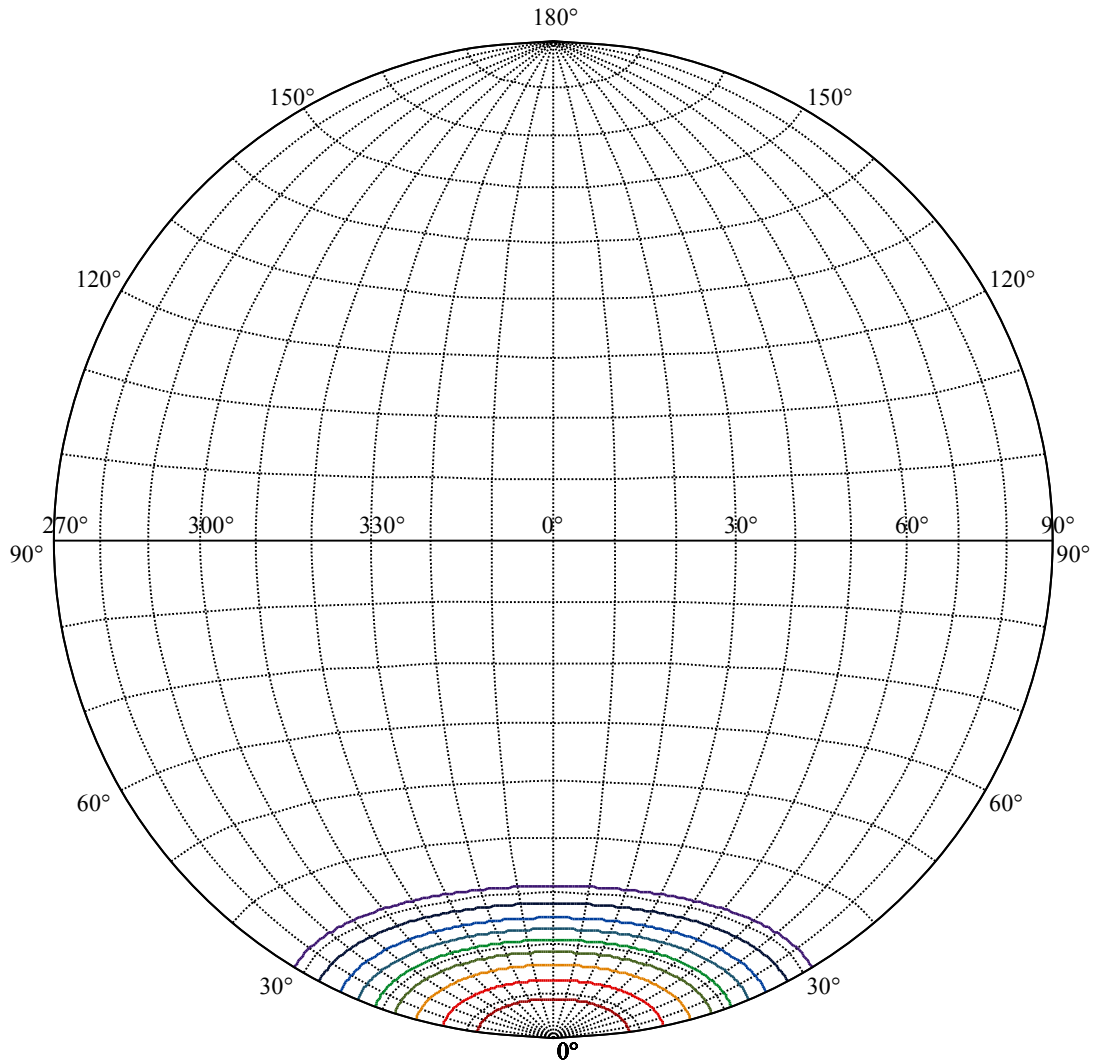
C90/C270: —————

Field angle(10%Imax):C0/180Left:31.2 Right:31.2
:C90/270Left:31.2 Right:31.2

Beam Angle(50%Imax):C0/180Left:20.9 Right:20.9
:C90/270Left:20.9 Right:20.9



(10%Imax) 190.687	—
(20%Imax) 381.375	—
(30%Imax) 572.062	—
(40%Imax) 762.75	—
(50%Imax) 953.437	—
(60%Imax) 1144.12	—
(70%Imax) 1334.81	—
(80%Imax) 1525.5	—
(90%Imax) 1716.19	—



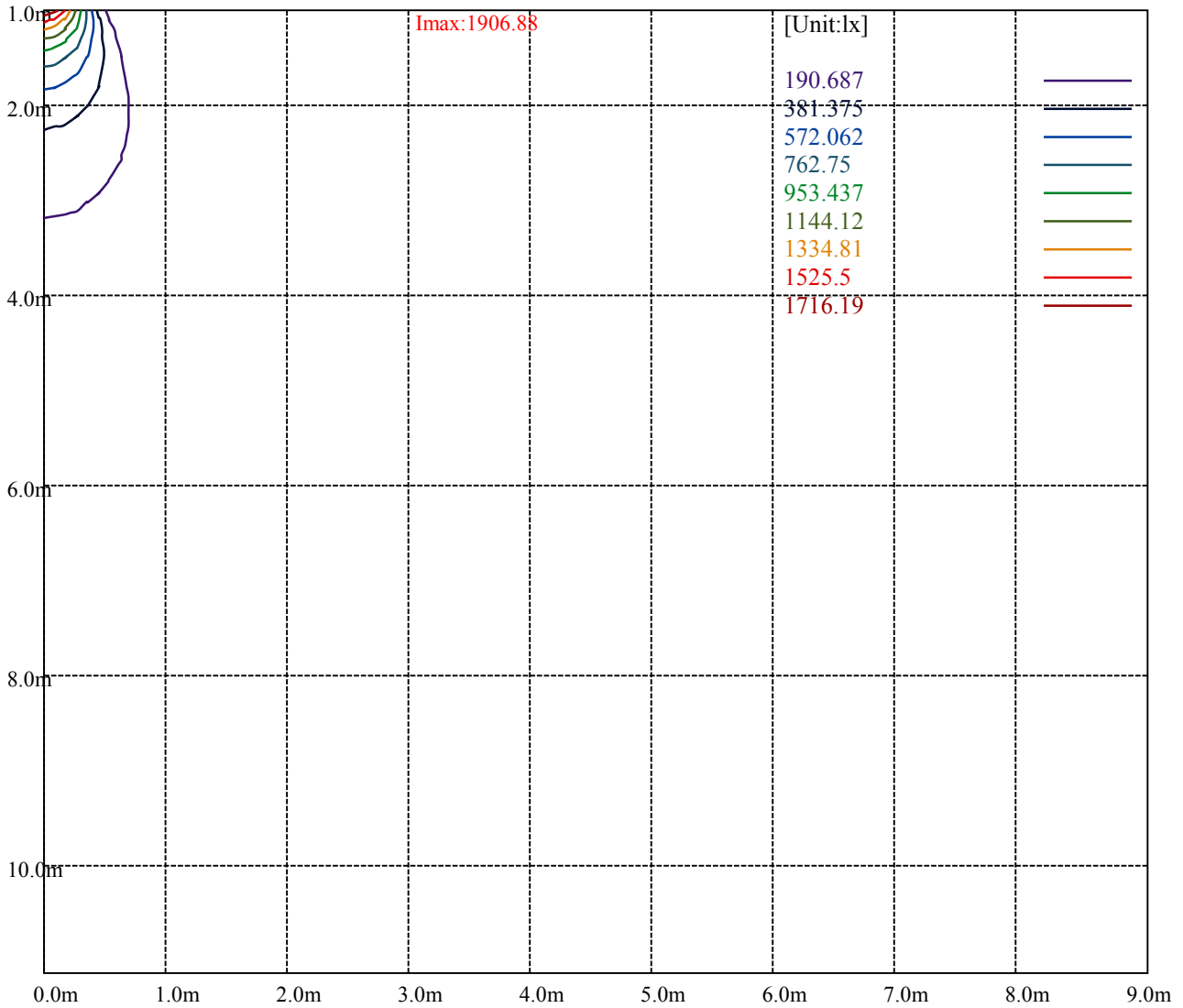
House

[Unit:cd]

Road

Imax:1906.88

(10%Imax)	190.687	—
(20%Imax)	381.375	—
(30%Imax)	572.062	—
(40%Imax)	762.75	—
(50%Imax)	953.437	—
(60%Imax)	1144.12	—
(70%Imax)	1334.81	—
(80%Imax)	1525.5	—
(90%Imax)	1716.19	—



Luminance Table

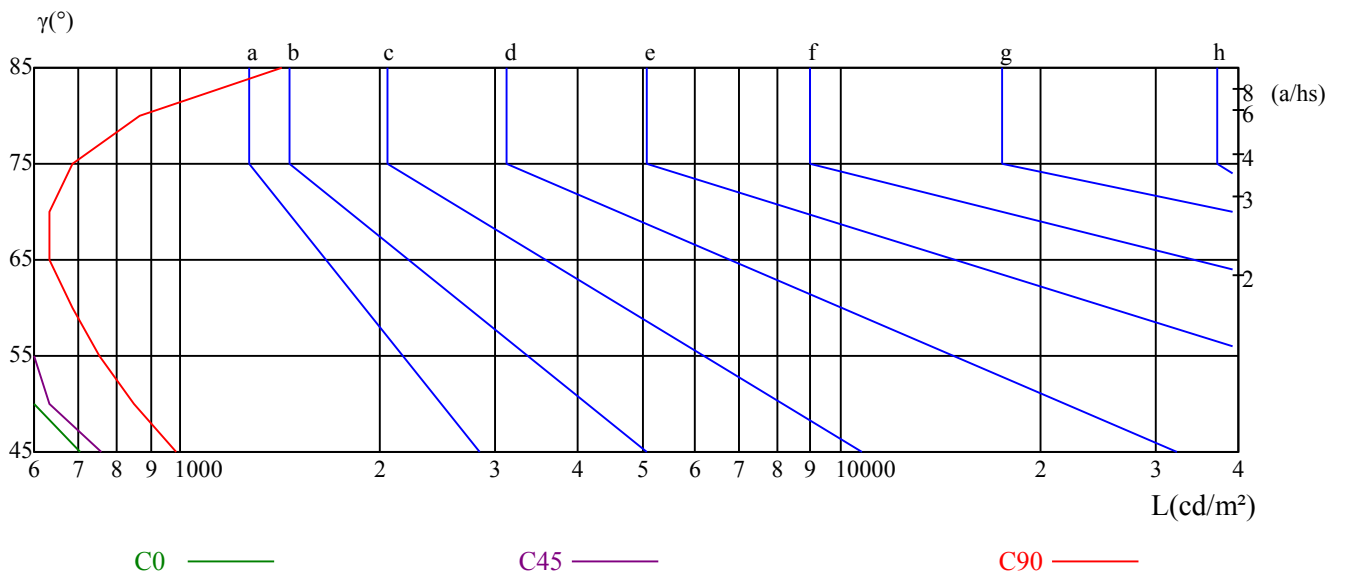
γ	45	50	55	60	65	70	75	80	85
C0	705	580	483	411	349	312	292	296	328
C45	761	631	532	458	395	359	342	356	410
C90	984	851	751	686	635	633	686	869	1426

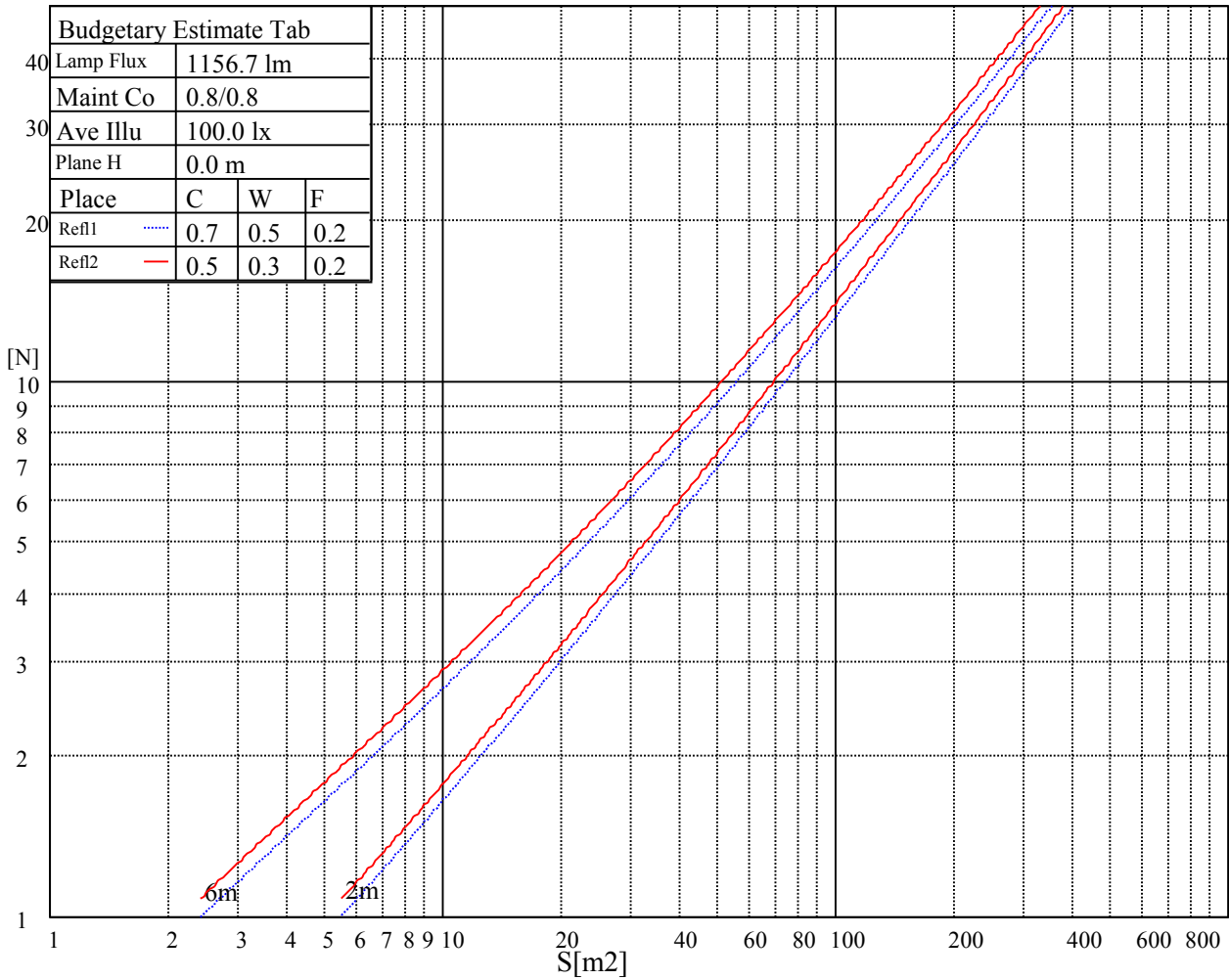
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
682	682	682	775	775	775	1997	1997	1997

Glare Table

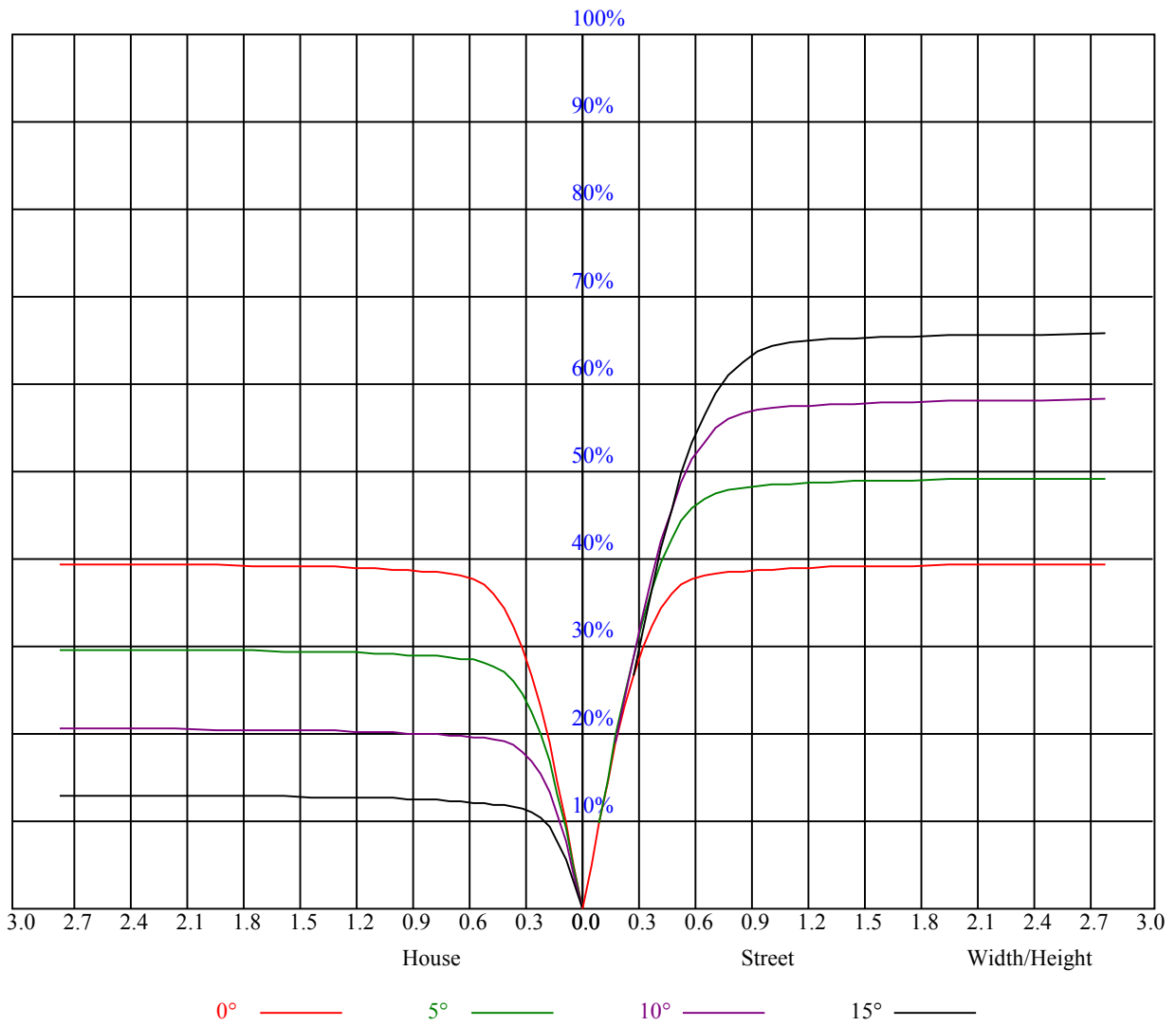
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.95	0.95	0.95	0.93	0.93	0.93	0.89	0.89	0.89	0.85	0.85	0.85	0.82	0.82	0.82	0.80
1	0.89	0.87	0.86	0.88	0.86	0.84	0.84	0.83	0.82	0.81	0.80	0.79	0.79	0.78	0.77	0.76
2	0.84	0.81	0.79	0.83	0.80	0.78	0.80	0.78	0.76	0.78	0.76	0.74	0.76	0.74	0.73	0.72
3	0.79	0.76	0.73	0.78	0.75	0.72	0.76	0.74	0.71	0.74	0.72	0.70	0.73	0.71	0.69	0.68
4	0.75	0.71	0.68	0.74	0.71	0.68	0.73	0.70	0.67	0.71	0.69	0.67	0.70	0.68	0.66	0.65
5	0.72	0.68	0.65	0.71	0.67	0.64	0.69	0.66	0.64	0.68	0.65	0.63	0.67	0.65	0.63	0.62
6	0.68	0.64	0.61	0.68	0.64	0.61	0.66	0.63	0.61	0.65	0.62	0.60	0.64	0.62	0.60	0.59
7	0.65	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.58	0.63	0.60	0.57	0.62	0.59	0.57	0.56
8	0.62	0.58	0.56	0.62	0.58	0.55	0.61	0.58	0.55	0.60	0.57	0.55	0.60	0.57	0.55	0.54
9	0.60	0.56	0.53	0.59	0.56	0.53	0.59	0.55	0.53	0.58	0.55	0.53	0.57	0.55	0.52	0.52
10	0.57	0.53	0.51	0.57	0.53	0.51	0.56	0.53	0.51	0.56	0.53	0.51	0.55	0.52	0.50	0.50



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	1901.81	1860.19	1692.56	1425.94	1082.25	642.38	298.69	64.46	29.19
45.0	1910.25	1850.63	1674.00	1407.94	1040.06	593.44	300.94	50.51	26.55
90.0	1909.69	1832.63	1660.50	1380.38	978.92	559.13	177.64	39.49	23.91
135.0	1905.75	1865.81	1715.06	1450.69	1083.38	650.81	301.50	41.46	23.46
180.0	1901.81	1835.44	1652.63	1368.56	980.66	534.32	158.06	34.71	21.88
225.0	1910.25	1852.88	1680.75	1403.44	1042.20	588.38	195.02	39.88	24.13
270.0	1909.69	1862.44	1704.94	1446.19	1078.31	630.56	284.63	51.92	26.49
315.0	1905.75	1823.06	1621.69	1366.31	982.35	513.17	191.25	47.42	26.16
360.0	1901.81	1860.19	1692.56	1425.94	1082.25	642.38	298.69	64.46	29.19
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	20.08	15.41	12.21	9.68	7.54	6.19	5.18	4.56	4.11
45.0	18.84	14.96	11.70	9.34	7.43	6.13	5.18	4.56	4.16
90.0	17.72	14.12	11.14	9.11	7.20	5.96	5.18	4.84	4.16
135.0	17.66	14.23	11.53	9.23	7.37	6.08	5.18	4.61	4.22
180.0	16.93	13.84	11.03	8.83	7.14	5.85	4.95	4.50	4.16
225.0	18.17	14.34	11.64	9.34	7.43	6.13	5.18	4.61	4.28
270.0	19.46	15.30	12.09	9.90	7.76	6.36	5.34	4.84	6.41
315.0	18.96	14.74	11.53	9.23	7.31	6.02	5.01	4.61	4.22
360.0	20.08	15.41	12.21	9.68	7.54	6.19	5.18	4.56	4.11
C/ γ (°)	90.0								
0.0	3.88								
45.0	3.94								
90.0	3.94								
135.0	3.88								
180.0	3.83								
225.0	3.94								
270.0	3.88								
315.0	3.88								
360.0	3.88								