



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: 1-0937-N	
Luminaire: 92.70.246.00	
Report No: 210630-B011	Voltage(V): 36.8100
Test No: 210630-C011	Current(A): 0.3050
LampCAT: Fortimo LED SLM 1202 G7N	Power (W): 11.2270
Lamp flux(lm): 1492.0	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): 1163.25
Efficiency(%): 77.96%
Lumens(lm)/Power(W): 103.61
Central intensity(cd): 3070.406
Maximum intensity(cd): 3070.406
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=34.9
 [C90/270]Total=34.9
Field angle(10%Imax): [C0/180]Total=57.3
 [C90/270]Total=57.3
Maximum s/h(1/2): C0_180=0.58 C90_270=0.58
Maximum s/h(1/4): C0_180=0.57 C90_270=0.57
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 77.96%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.166%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2021/6/30
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

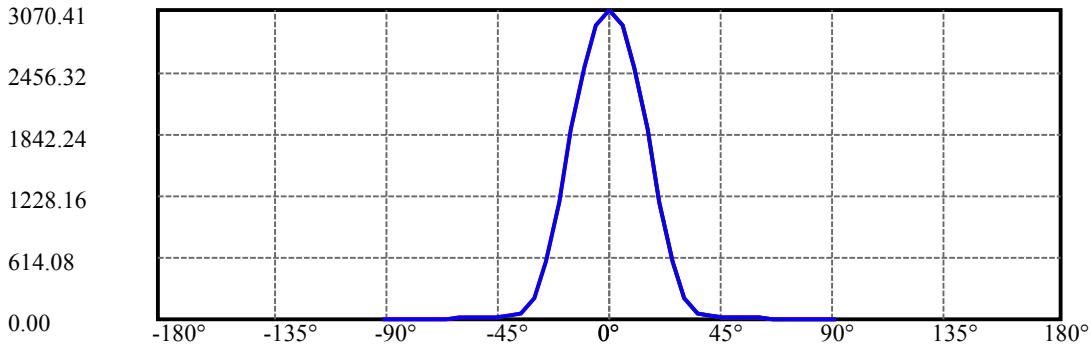
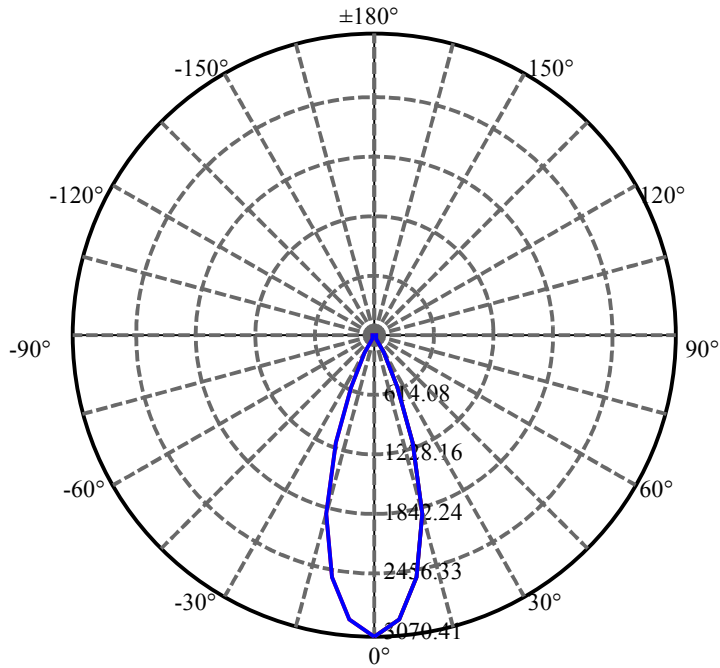
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3070.406	0.000	0	.000%	.000%
5.0	2914.664	71.550	71.55	4.795%	6.151%
10.0	2505.305	193.889	265.439	12.995%	22.819%
15.0	1882.617	260.289	525.728	17.445%	45.195%
20.0	1171.526	251.704	777.432	16.870%	66.833%
25.0	577.828	183.475	960.907	12.297%	82.605%
30.0	207.520	99.387	1060.293	6.661%	91.149%
35.0	48.741	37.736	1098.03	2.529%	94.393%
40.0	33.209	13.673	1111.702	.916%	95.569%
45.0	23.280	10.459	1122.162	.701%	96.468%
50.0	16.889	8.117	1130.279	.544%	97.166%
55.0	12.579	6.407	1136.686	.429%	97.716%
60.0	10.041	5.228	1141.914	.350%	98.166%
65.0	8.346	4.470	1146.384	.300%	98.550%
70.0	7.320	3.967	1150.351	.266%	98.891%
75.0	6.518	3.617	1153.968	.242%	99.202%
80.0	6.054	3.364	1157.332	.225%	99.491%
85.0	5.421	3.118	1160.45	.209%	99.759%
90.0	4.802	2.799	1163.249	.188%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1060.29	71.06%	91.15%
0-40	1111.70	74.51%	95.57%
0-60	1141.91	76.53%	98.17%
0-90	1160.45	77.78%	99.76%
0-120	1160.45	77.78%	99.76%
0-180	1163.25	77.96%	100.00%
60-90	23.76	1.59%	2.04%
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%
0-24.17	930.60	62.37%	80.00%

ZONAL LUMEN SUMMARY

0-10	265.44
10-20	511.99
20-30	282.86
30-40	51.41
40-50	18.58
50-60	11.64
60-70	8.44
70-80	6.98
80-90	3.12
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: —————

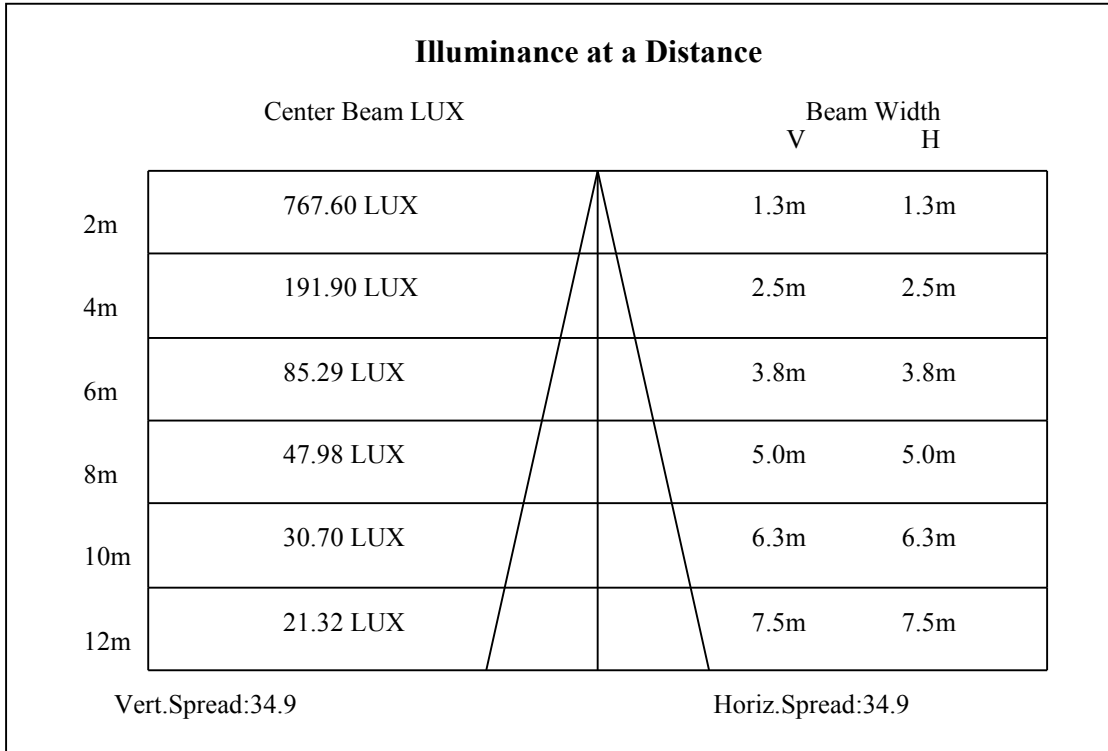
C90/C270: —————

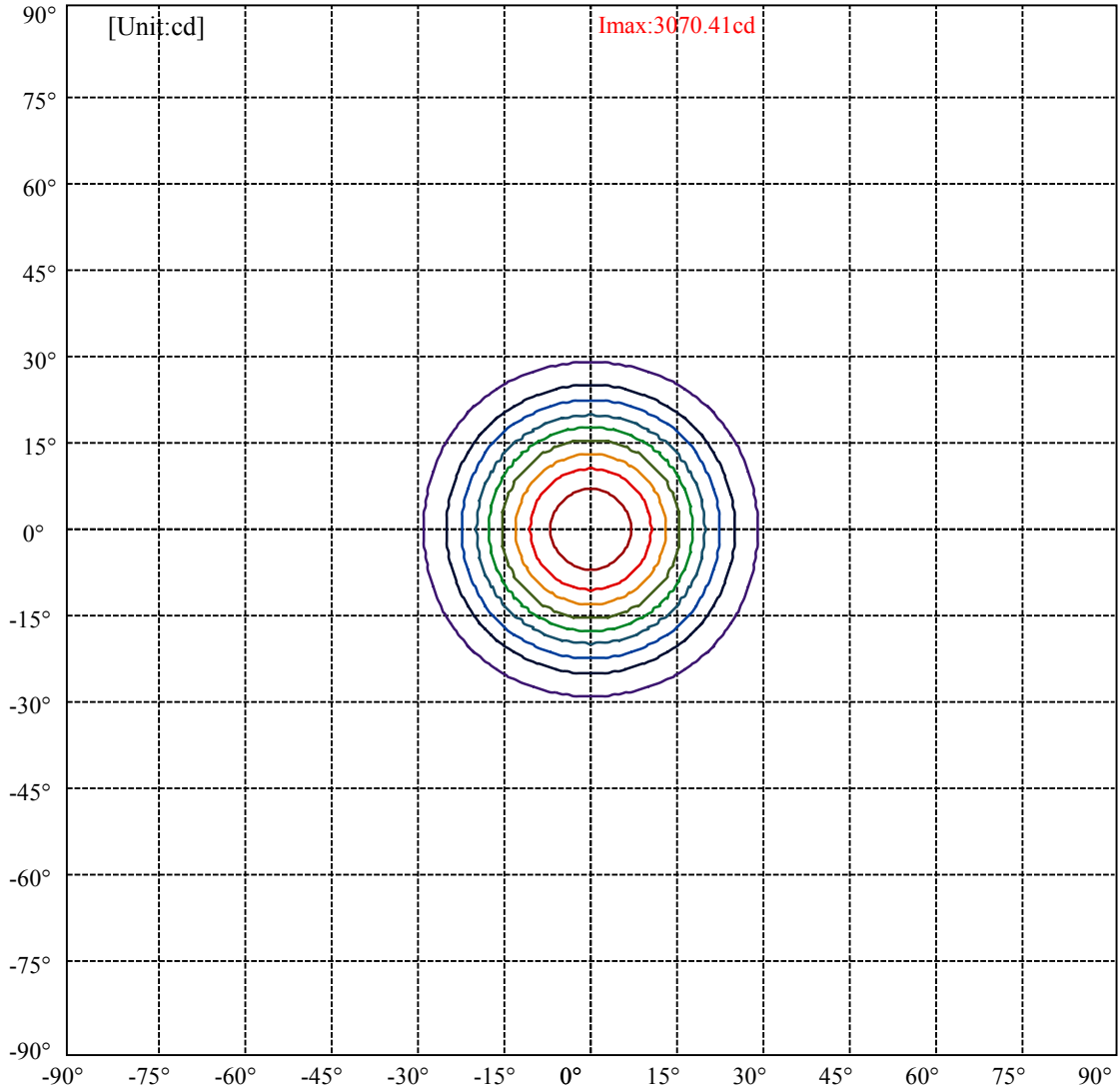
Field angle(10%Imax):C0/180Left:28.7 Right:28.7

:C90/270Left:28.7 Right:28.7

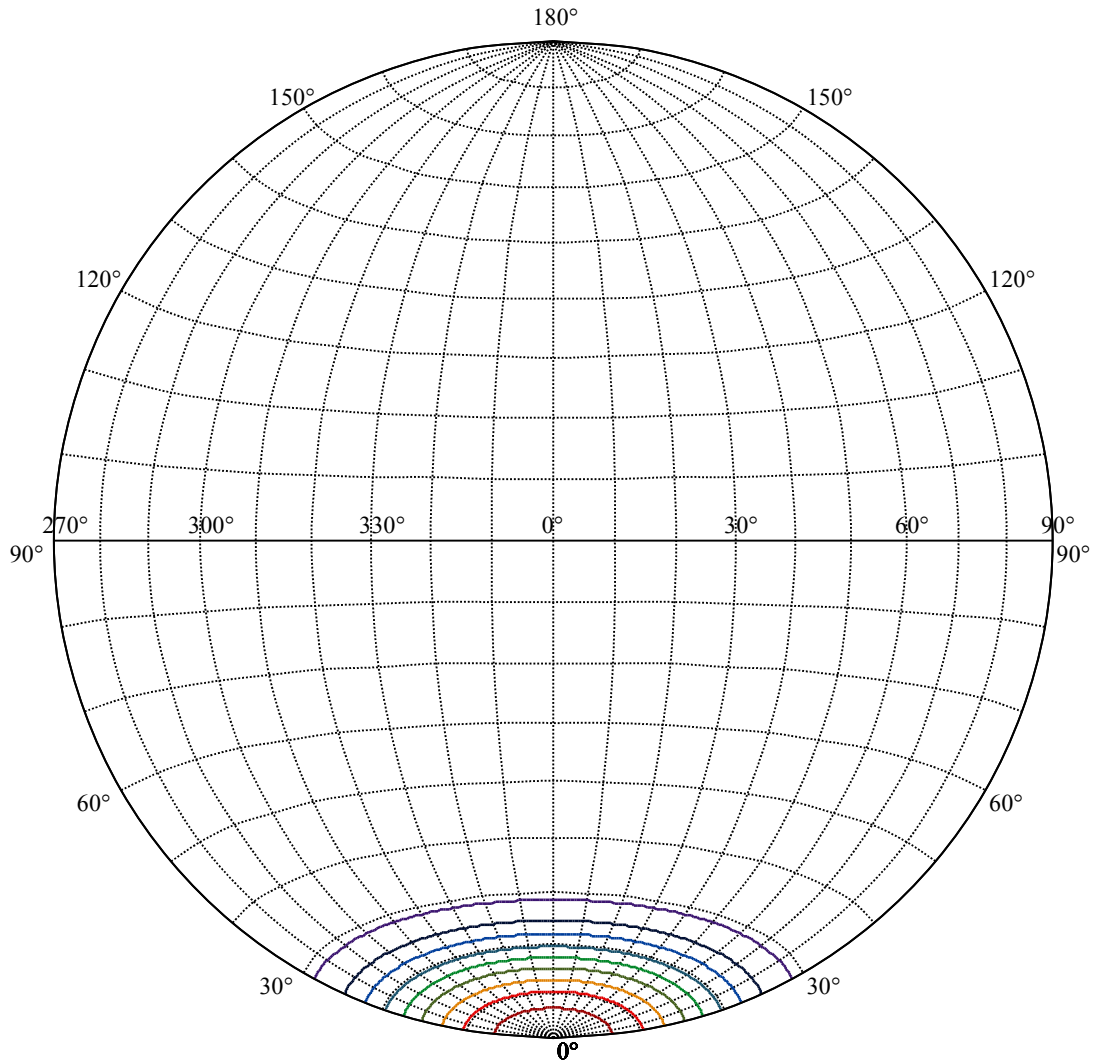
Beam Angle(50%Imax):C0/180Left:17.4 Right:17.4

:C90/270Left:17.4 Right:17.4





(10%I _{max}) 307.041	—
(20%I _{max}) 614.081	—
(30%I _{max}) 921.122	—
(40%I _{max}) 1228.16	—
(50%I _{max}) 1535.2	—
(60%I _{max}) 1842.24	—
(70%I _{max}) 2149.28	—
(80%I _{max}) 2456.32	—
(90%I _{max}) 2763.37	—



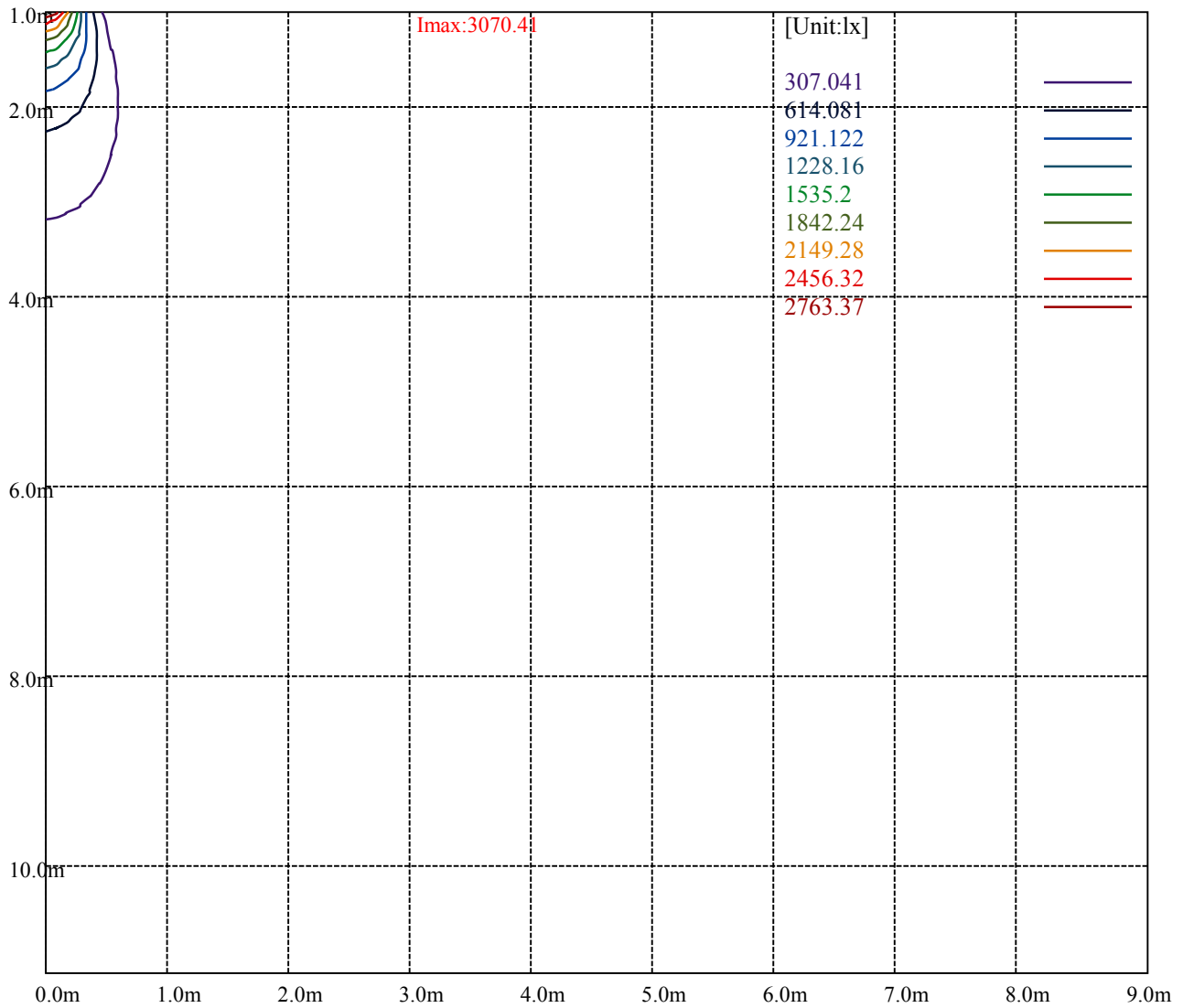
House

[Unit:cd]

Road

Imax:3070.41

(10%Imax) 307.041	—
(20%Imax) 614.081	—
(30%Imax) 921.122	—
(40%Imax) 1228.16	—
(50%Imax) 1535.2	—
(60%Imax) 1842.24	—
(70%Imax) 2149.28	—
(80%Imax) 2456.32	—
(90%Imax) 2763.37	—



Luminance Table

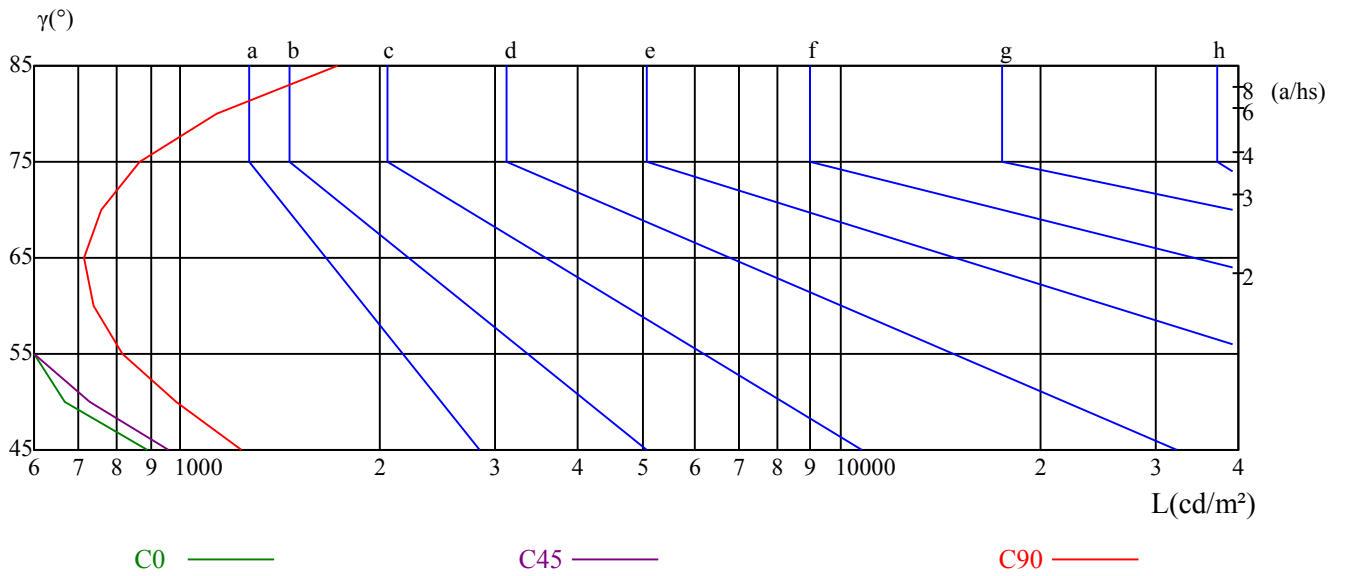
γ	45	50	55	60	65	70	75	80	85
C0	889	670	523	442	394	376	369	386	399
C45	959	730	576	493	446	432	433	465	497
C90	1240	983	814	738	716	761	868	1134	1731

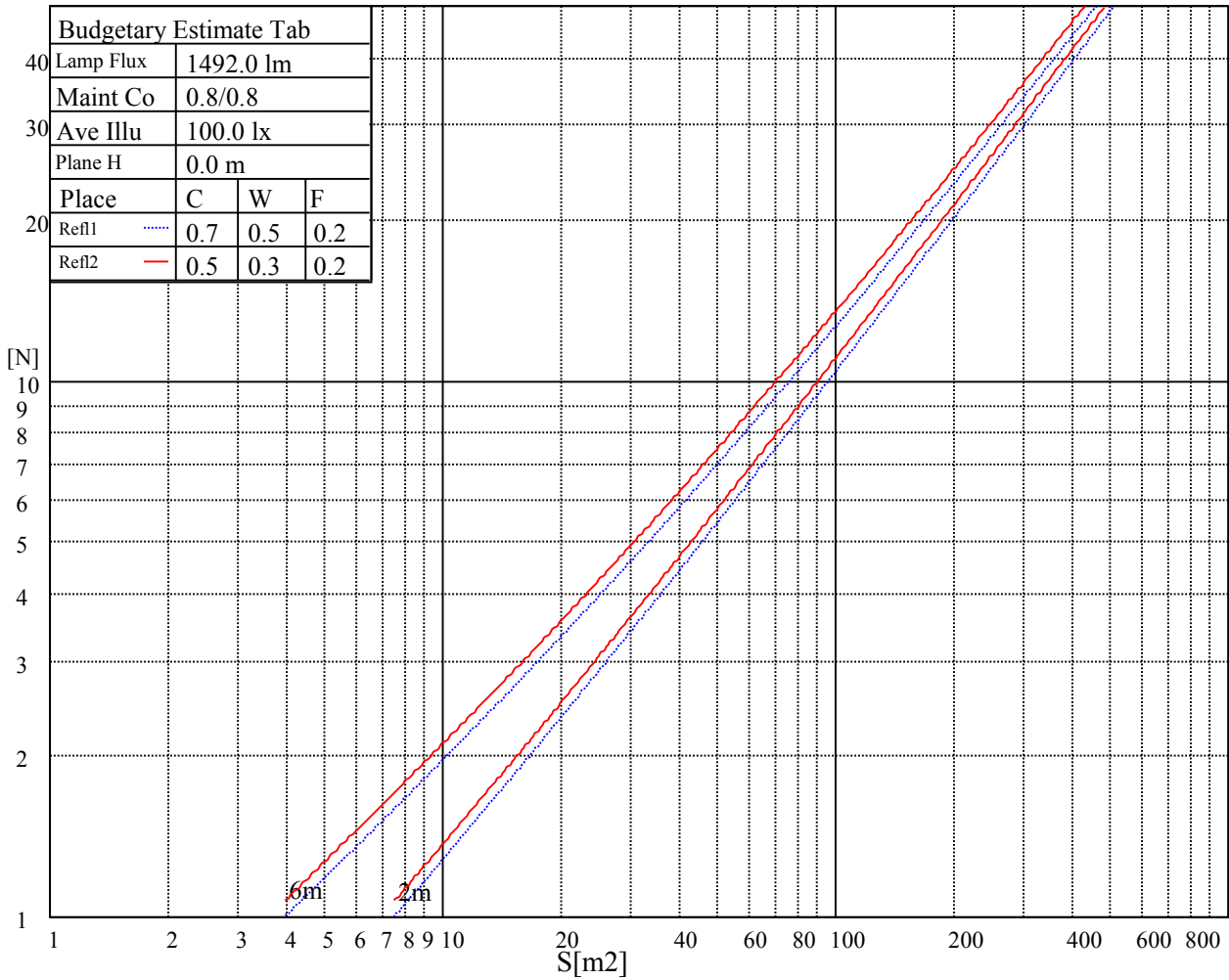
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
770	770	770	982	982	982	2425	2425	2425

Glare Table

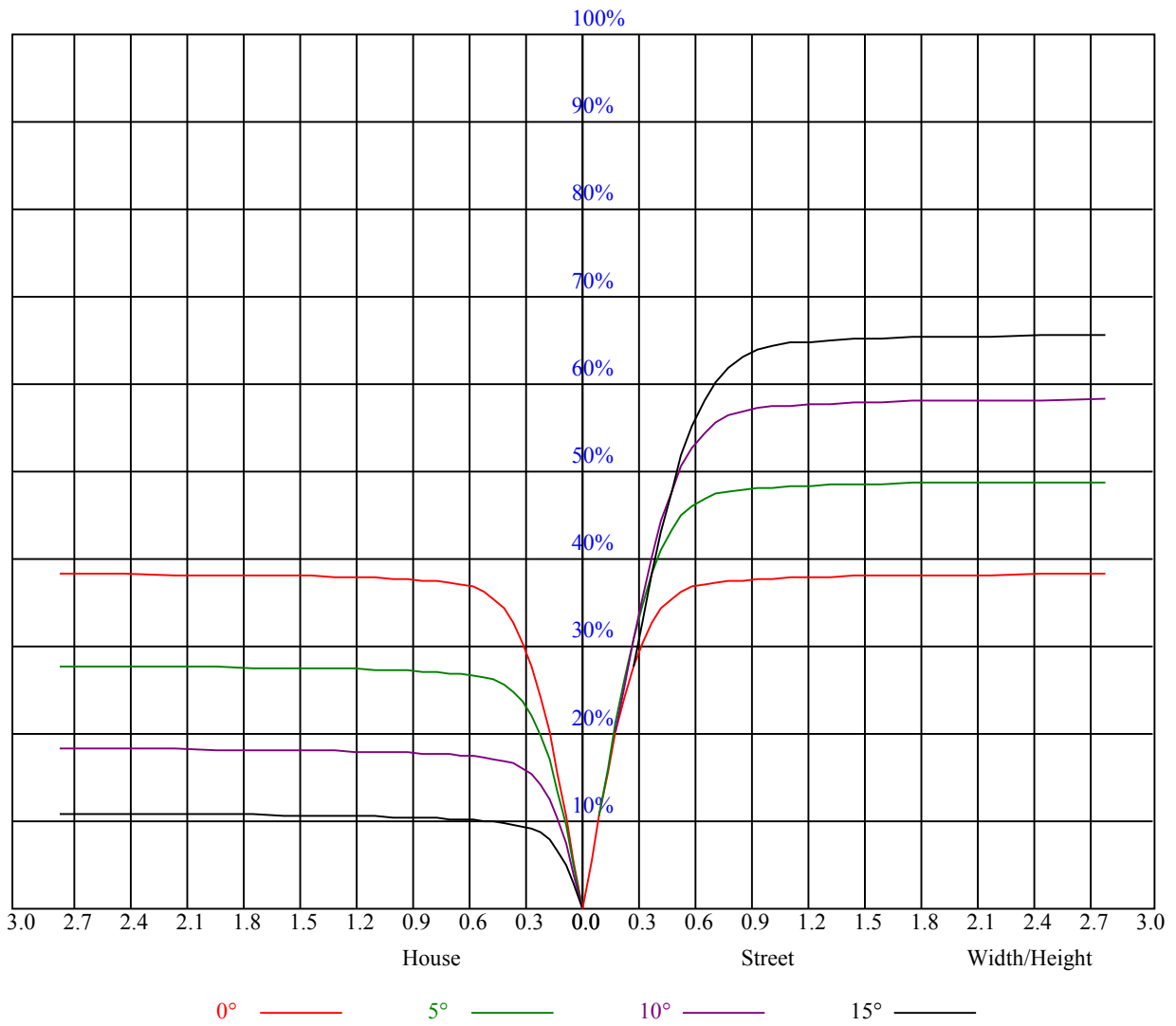
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.93	0.93	0.93	0.91	0.91	0.91	0.87	0.87	0.87	0.83	0.83	0.83	0.80	0.80	0.80	0.78
1	0.87	0.85	0.84	0.85	0.84	0.82	0.82	0.81	0.80	0.79	0.78	0.78	0.77	0.76	0.75	0.74
2	0.82	0.79	0.77	0.81	0.78	0.76	0.78	0.76	0.75	0.76	0.75	0.73	0.74	0.73	0.72	0.70
3	0.78	0.75	0.72	0.77	0.74	0.72	0.75	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	0.66	0.69	0.67	0.65	0.64
5	0.71	0.67	0.64	0.70	0.67	0.64	0.69	0.66	0.64	0.68	0.65	0.63	0.67	0.64	0.63	0.62
6	0.68	0.64	0.61	0.67	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	0.59	0.65	0.61	0.59	0.64	0.61	0.58	0.63	0.60	0.58	0.62	0.60	0.58	0.57
8	0.63	0.59	0.56	0.62	0.59	0.56	0.61	0.58	0.56	0.61	0.58	0.56	0.60	0.57	0.55	0.55
9	0.60	0.57	0.54	0.60	0.56	0.54	0.59	0.56	0.54	0.59	0.56	0.54	0.58	0.55	0.53	0.53
10	0.58	0.54	0.52	0.58	0.54	0.52	0.57	0.54	0.52	0.57	0.54	0.52	0.56	0.53	0.52	0.51



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	3060.00	3004.88	2658.38	2140.88	1402.31	736.88	287.44	58.56	36.56
45.0	3074.63	2926.13	2536.31	1929.38	1223.44	597.38	301.50	51.13	34.88
90.0	3066.75	2845.13	2390.06	1743.75	1051.59	466.31	130.05	45.17	31.67
135.0	3080.25	2900.81	2484.00	1814.63	1189.13	540.56	200.98	45.56	31.84
180.0	3060.00	2813.06	2336.06	1643.06	997.88	427.11	102.43	41.79	29.70
225.0	3074.63	2898.00	2473.88	1807.88	1079.04	534.26	153.34	45.68	32.06
270.0	3066.75	2978.44	2622.94	2046.94	1307.81	721.69	297.56	53.44	36.28
315.0	3080.25	2950.88	2540.81	1934.44	1121.01	598.44	186.86	48.60	32.68
360.0	3060.00	3004.88	2658.38	2140.88	1402.31	736.88	287.44	58.56	36.56
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	25.48	18.62	13.61	10.63	8.89	7.65	6.75	6.08	5.63
45.0	24.81	17.78	12.99	10.35	8.44	7.37	6.53	5.91	5.40
90.0	22.56	16.31	12.09	9.84	8.27	7.31	6.64	6.86	5.63
135.0	22.33	16.20	12.26	9.79	8.16	7.26	6.41	5.79	5.34
180.0	20.87	15.19	11.53	9.39	7.88	7.03	6.19	5.63	5.23
225.0	22.50	16.31	12.32	9.79	8.10	7.03	6.30	5.63	5.29
270.0	24.75	17.78	13.22	10.46	8.55	7.54	6.81	6.64	5.46
315.0	22.95	16.93	12.60	10.07	8.49	7.37	6.53	5.91	5.40
360.0	25.48	18.62	13.61	10.63	8.89	7.65	6.75	6.08	5.63
C/γ(°)	90.0								
0.0	4.89								
45.0	4.78								
90.0	4.78								
135.0	4.78								
180.0	4.84								
225.0	4.78								
270.0	4.78								
315.0	4.78								
360.0	4.89								