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Nata

LumCAT: 1-0920-M	
Luminaire: 92.70.124.00	
Report No: 210716-B005	Voltage(V): 36.2100
Test No: 210716-C005	Current(A): 0.4510
LampCAT: Fortimo LED SLM 1203 G7N	Power (W): 16.3300
Lamp flux(lm): 1566.1	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): 1299.32
Efficiency(%): 82.97%
Lumens(lm)/Power(W): 79.57
Central intensity(cd): 3881.531
Maximum intensity(cd): 3881.531
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=34.8
 [C90/270]Total=34.8
Field angle(10%Imax): [C0/180]Total=52.0
 [C90/270]Total=52.0
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(%): 82.97%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.548%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2021/7/16
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

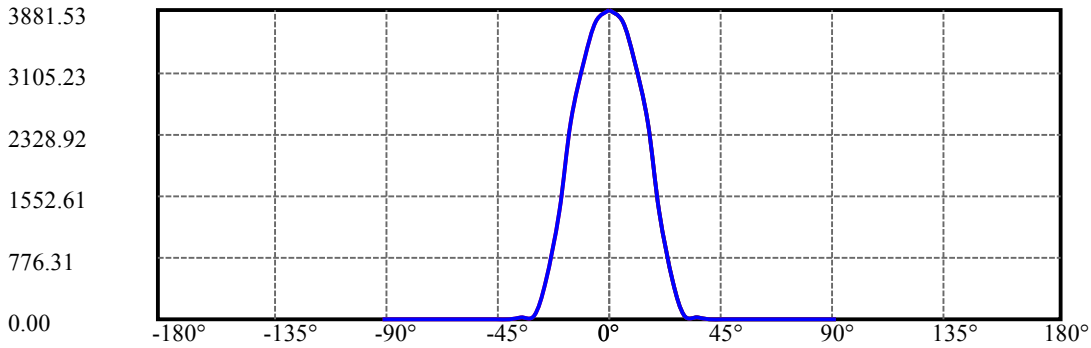
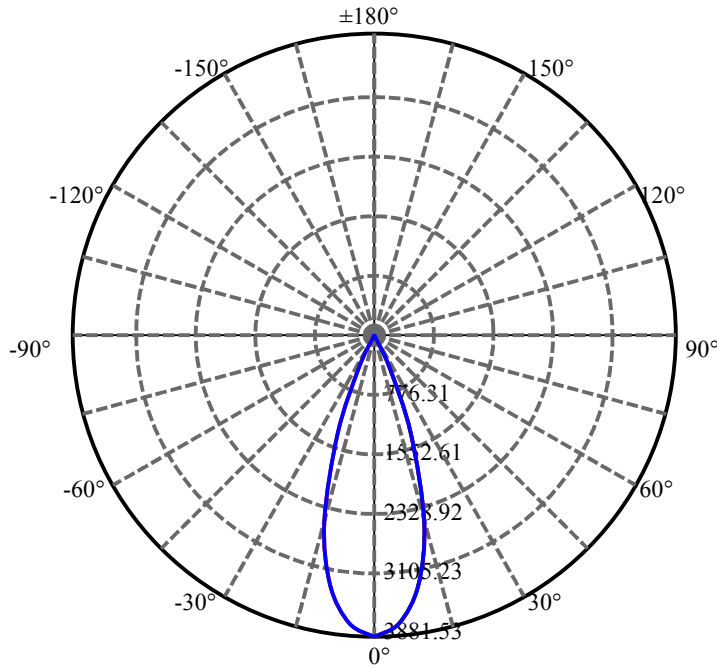
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3881.531	0.000	0	.000%	.000%
5.0	3727.406	90.963	90.963	5.808%	7.001%
10.0	3263.344	250.081	341.044	15.969%	26.248%
15.0	2484.844	340.979	682.022	21.773%	52.491%
20.0	1344.023	315.552	997.575	20.149%	76.776%
25.0	475.003	190.782	1188.357	12.182%	91.460%
30.0	49.901	66.427	1254.784	4.242%	96.572%
35.0	13.985	9.408	1264.192	.601%	97.296%
40.0	9.668	3.946	1268.138	.252%	97.600%
45.0	7.966	3.265	1271.403	.208%	97.851%
50.0	7.158	3.056	1274.459	.195%	98.086%
55.0	6.630	2.998	1277.457	.191%	98.317%
60.0	6.328	2.995	1280.453	.191%	98.548%
65.0	6.145	3.032	1283.485	.194%	98.781%
70.0	6.040	3.085	1286.57	.197%	99.019%
75.0	5.970	3.139	1289.71	.200%	99.260%
80.0	5.941	3.187	1292.897	.204%	99.505%
85.0	5.878	3.212	1296.108	.205%	99.753%
90.0	5.864	3.215	1299.323	.205%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1254.78	80.12%	96.57%
0-40	1268.14	80.98%	97.60%
0-60	1280.45	81.76%	98.55%
0-90	1296.11	82.76%	99.75%
0-120	1296.11	82.76%	99.75%
0-180	1299.32	82.97%	100.00%
60-90	18.65	1.19%	1.44%
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%
0-21.10	1039.46	66.37%	80.00%

ZONAL LUMEN SUMMARY

0-10	341.04
10-20	656.53
20-30	257.21
30-40	13.35
40-50	6.32
50-60	5.99
60-70	6.12
70-80	6.33
80-90	3.21
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



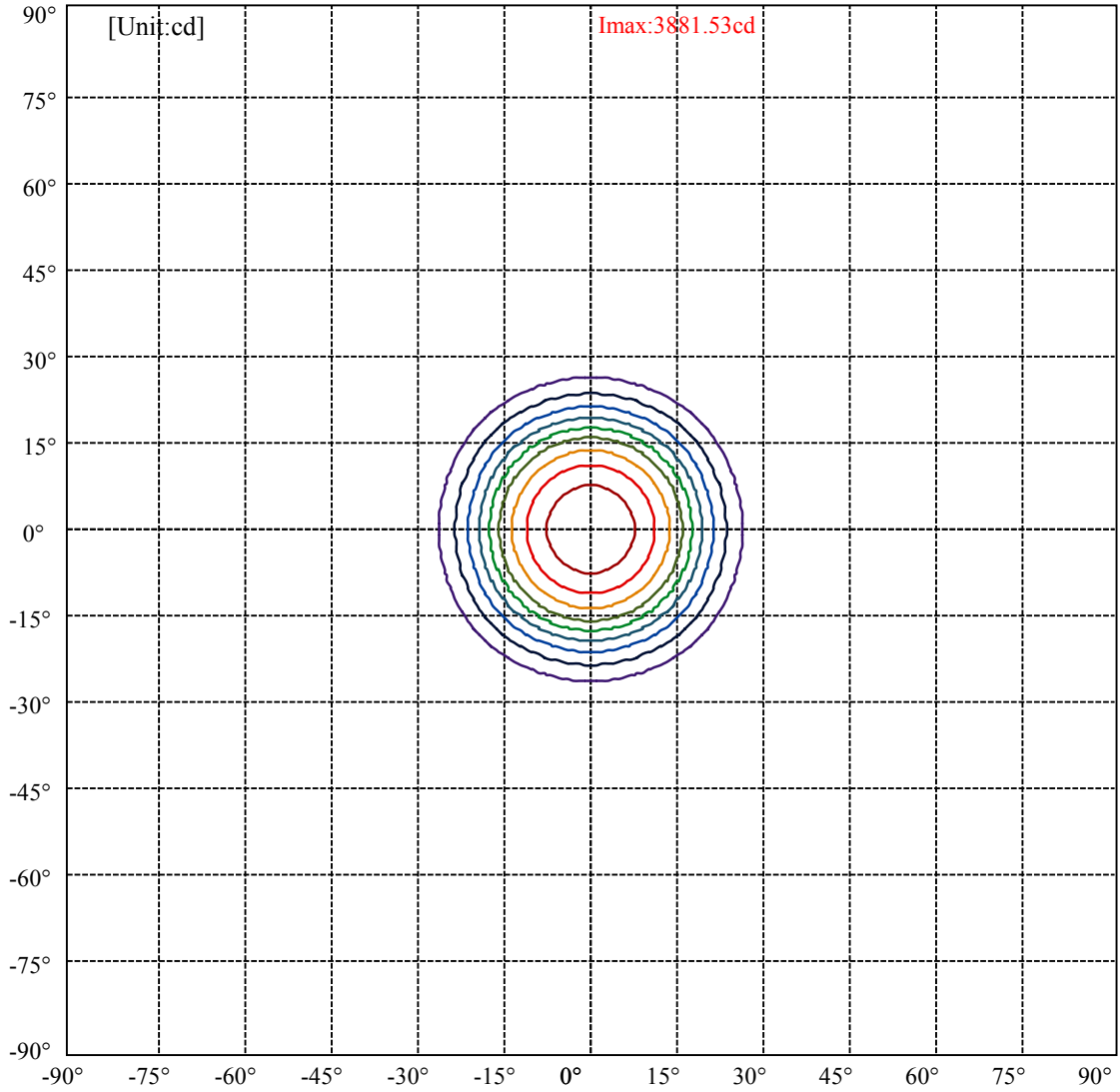
C0(Max): —————

C0/C180: —————

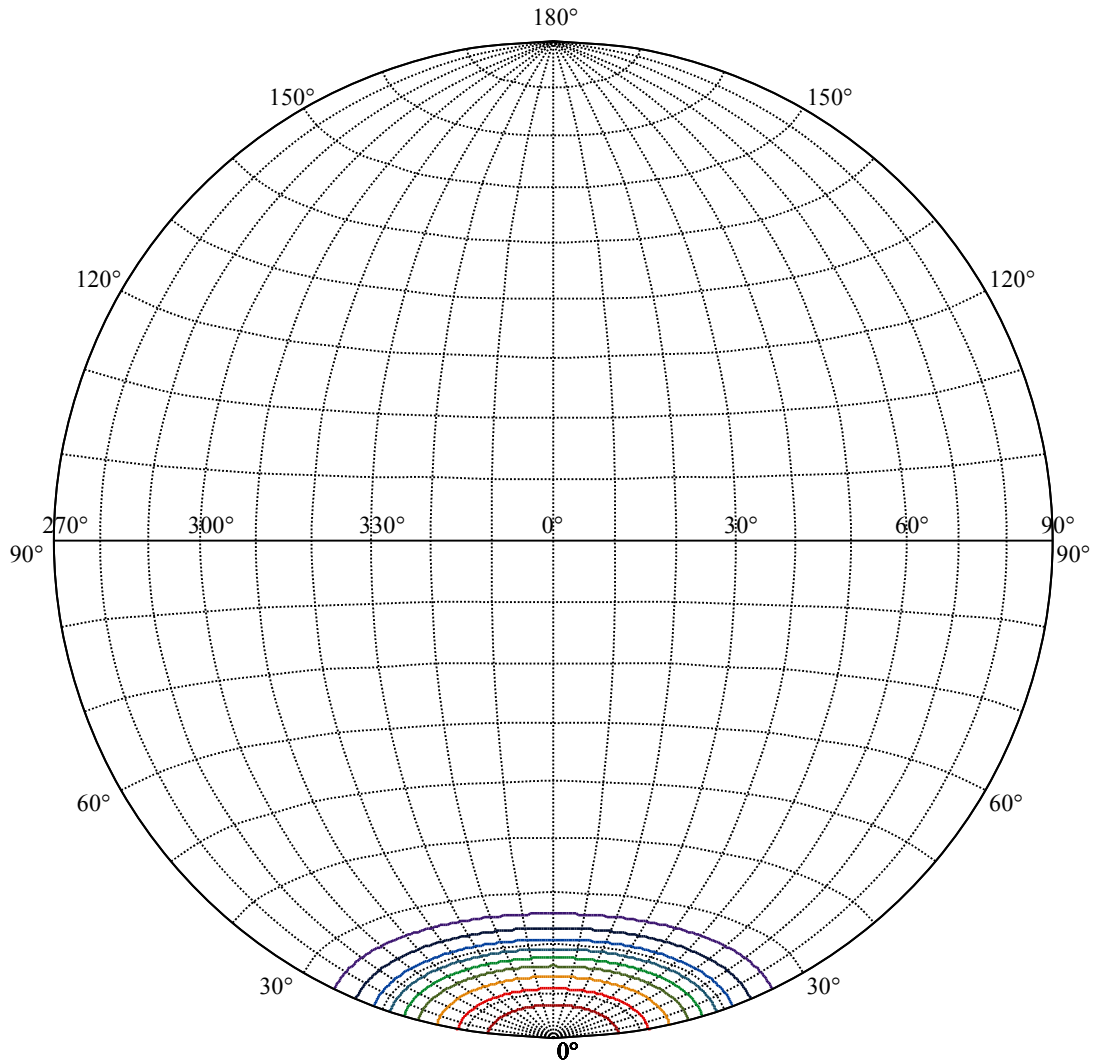
C90/C270: —————

Field angle(10%Imax):C0/180Left:26.0 Right:26.0
:C90/270Left:26.0 Right:26.0

Beam Angle(50%Imax):C0/180Left:17.4 Right:17.4
:C90/270Left:17.4 Right:17.4



(10%I _{max}) 388.153	—
(20%I _{max}) 776.306	—
(30%I _{max}) 1164.46	—
(40%I _{max}) 1552.61	—
(50%I _{max}) 1940.77	—
(60%I _{max}) 2328.92	—
(70%I _{max}) 2717.07	—
(80%I _{max}) 3105.23	—
(90%I _{max}) 3493.38	—



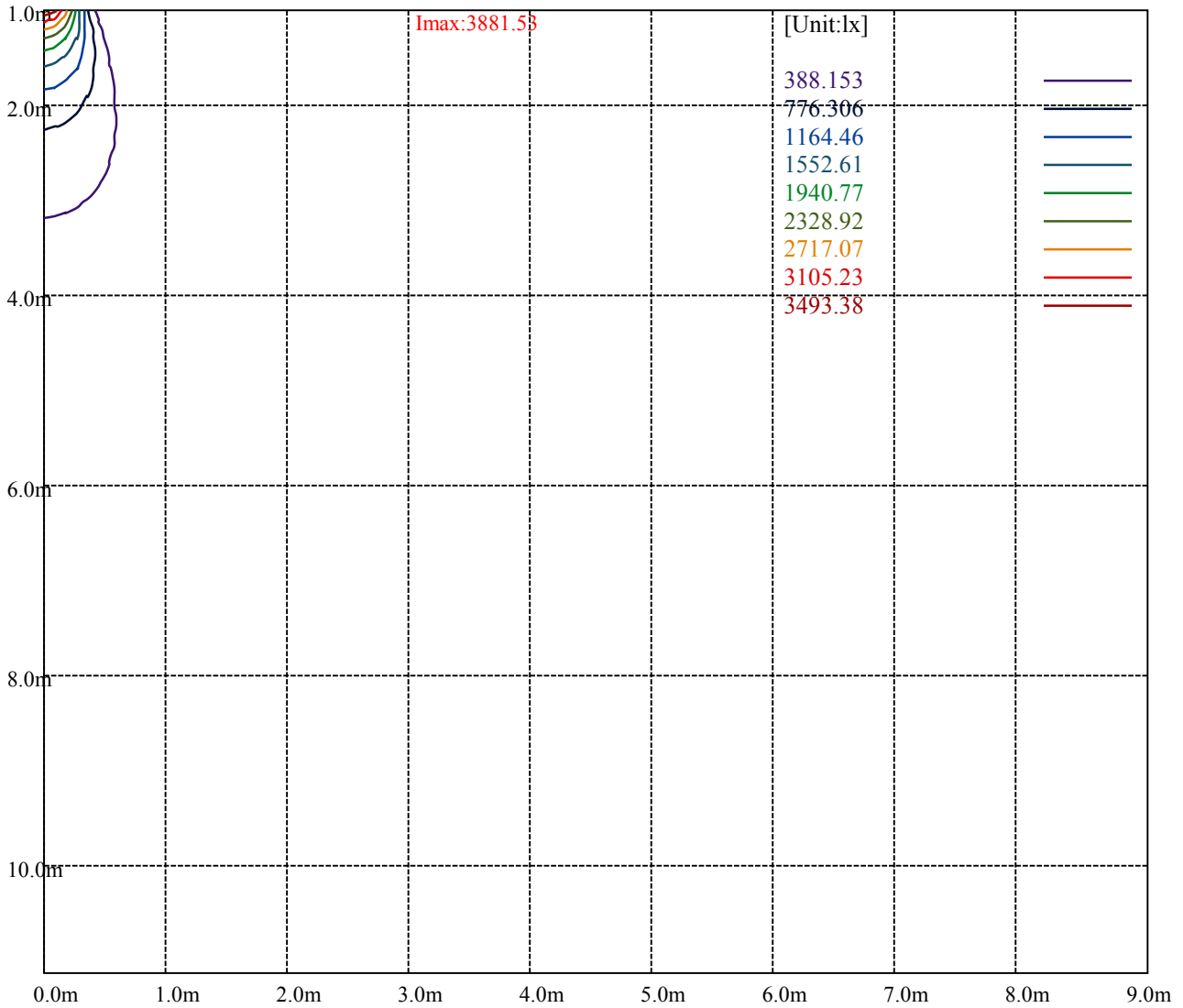
House

[Unit:cd]

Road

Imax:3881.53

(10%Imax)	388.153	—
(20%Imax)	776.306	—
(30%Imax)	1164.46	—
(40%Imax)	1552.61	—
(50%Imax)	1940.77	—
(60%Imax)	2328.92	—
(70%Imax)	2717.07	—
(80%Imax)	3105.23	—
(90%Imax)	3493.38	—



Luminance Table

γ	45	50	55	60	65	70	75	80	85
C0	304	284	276	279	290	310	338	379	432
C45	328	309	304	311	328	356	397	456	539
C90	424	417	429	465	527	628	795	1113	1877

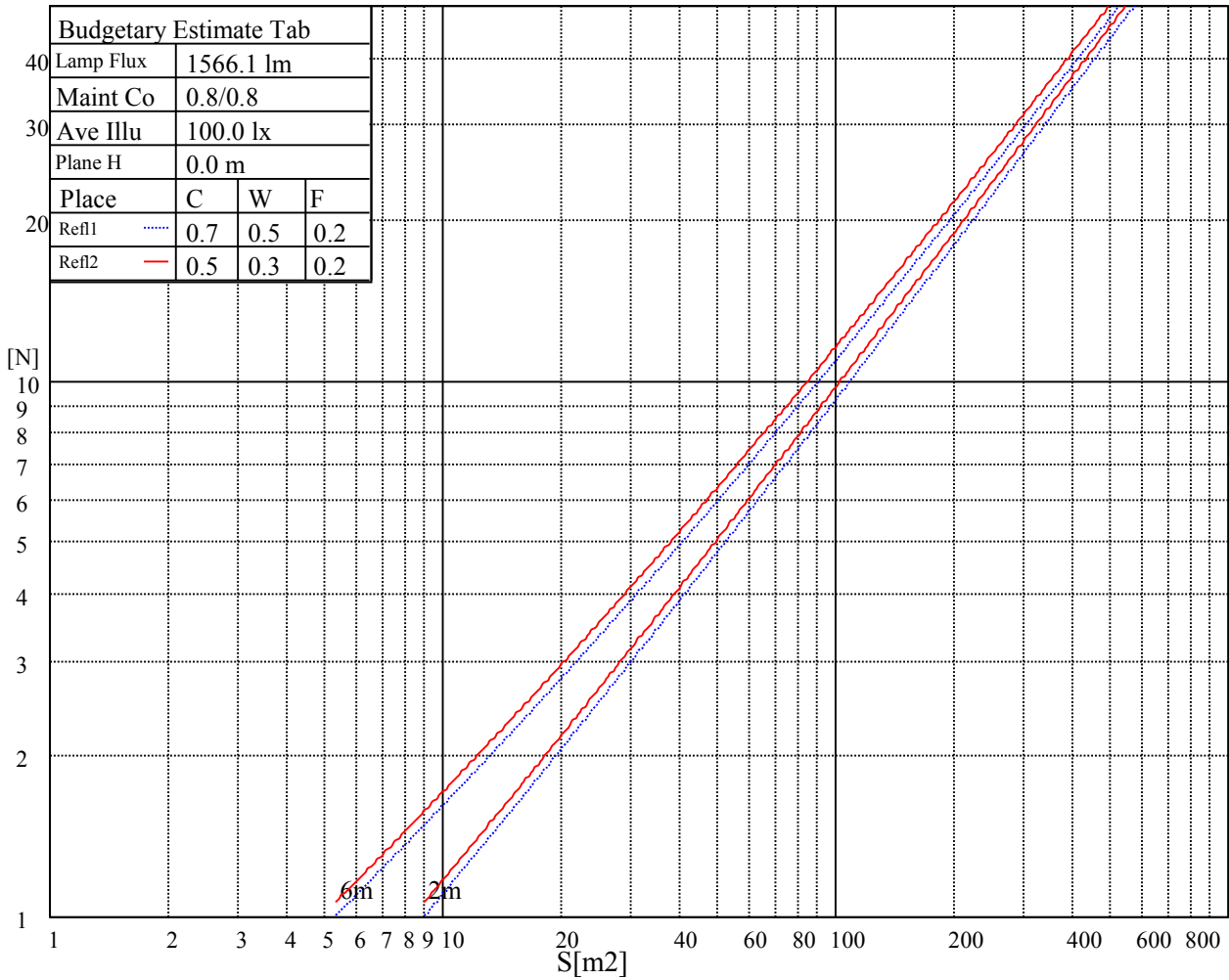
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
567	567	567	899	899	899	2629	2629	2629

Glare Table

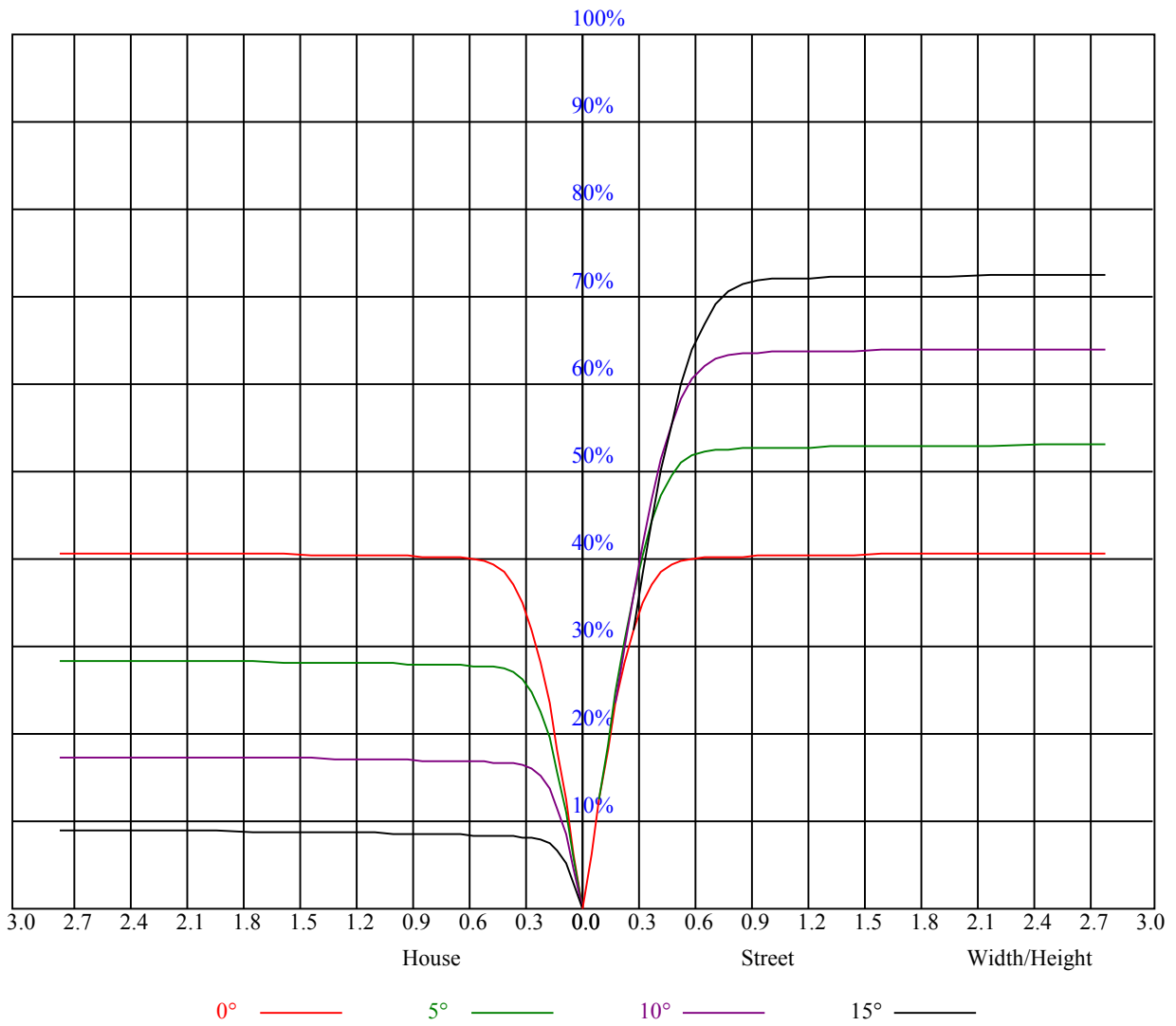
Glare	Quality	Service Values Illuminance(lx)							
		a	b	c	d	e	f	g	h
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.93	0.91	0.90	0.91	0.90	0.88	0.88	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.81	0.79
2	0.88	0.86	0.83	0.87	0.85	0.83	0.84	0.82	0.81	0.82	0.80	0.79	0.80	0.79	0.77	0.76
3	0.84	0.81	0.79	0.83	0.80	0.78	0.81	0.79	0.77	0.79	0.77	0.76	0.77	0.76	0.74	0.73
4	0.81	0.77	0.75	0.80	0.77	0.74	0.78	0.75	0.73	0.77	0.74	0.72	0.75	0.73	0.72	0.71
5	0.78	0.74	0.71	0.77	0.73	0.71	0.75	0.73	0.70	0.74	0.72	0.70	0.73	0.71	0.69	0.68
6	0.75	0.71	0.68	0.74	0.71	0.68	0.73	0.70	0.68	0.72	0.69	0.67	0.71	0.69	0.67	0.66
7	0.72	0.68	0.66	0.71	0.68	0.66	0.71	0.67	0.65	0.70	0.67	0.65	0.69	0.66	0.65	0.64
8	0.70	0.66	0.63	0.69	0.66	0.63	0.68	0.65	0.63	0.68	0.65	0.63	0.67	0.64	0.62	0.62
9	0.67	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.61	0.66	0.63	0.61	0.65	0.62	0.61	0.60
10	0.65	0.62	0.59	0.65	0.61	0.59	0.64	0.61	0.59	0.64	0.61	0.59	0.63	0.61	0.59	0.58



Nata 1-0920-M

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	3882.94	3765.94	3331.69	2566.69	1630.13	550.69	54.56	15.19	9.90
45.0	3880.13	3720.94	3268.69	2476.13	1524.38	463.50	45.00	13.67	9.68
90.0	3881.81	3706.88	3186.00	2387.81	1108.74	396.96	38.59	12.54	9.51
135.0	3881.25	3773.81	3351.94	2612.25	1622.81	641.25	65.25	14.29	10.07
180.0	3882.94	3683.25	3183.19	2422.13	1092.43	388.24	44.83	12.83	9.23
225.0	3880.13	3733.31	3254.06	2441.25	1066.50	441.79	48.83	14.51	9.73
270.0	3881.81	3755.25	3320.44	2599.31	1601.44	536.06	63.17	15.69	10.01
315.0	3881.25	3679.88	3210.75	2373.19	1105.76	381.54	38.98	13.16	9.23
360.0	3882.94	3765.94	3331.69	2566.69	1630.13	550.69	54.56	15.19	9.90
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	7.99	7.09	6.58	6.30	6.08	5.91	5.85	5.85	5.79
45.0	8.10	7.31	6.75	6.41	6.24	6.13	6.08	6.02	5.91
90.0	7.93	7.20	6.69	6.41	6.24	6.19	6.13	6.08	5.91
135.0	8.10	7.26	6.69	6.41	6.19	6.08	5.96	5.96	5.85
180.0	7.65	6.98	6.47	6.19	6.02	5.96	5.85	5.85	5.79
225.0	7.93	7.14	6.64	6.30	6.13	6.02	6.02	5.96	5.91
270.0	8.21	7.26	6.69	6.36	6.19	6.08	6.02	5.96	6.02
315.0	7.82	7.03	6.53	6.24	6.08	5.96	5.85	5.85	5.85
360.0	7.99	7.09	6.58	6.30	6.08	5.91	5.85	5.85	5.79
C/γ(°)	90.0								
0.0	5.79								
45.0	5.91								
90.0	5.91								
135.0	5.85								
180.0	5.79								
225.0	5.91								
270.0	5.91								
315.0	5.85								
360.0	5.79								