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Nata

LumCAT: 1-0928-M	
Luminaire: 92.70.124.00	
Report No: 210719-B012	Voltage(V): 36.2900
Test No: 210719-C012	Current(A): 0.5110
LampCAT: Fortimo LED SLM 1204 G7N	Power (W): 18.5440
Lamp flux(lm): 2370.0	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): 1773.95
Efficiency(%): 74.85%
Lumens(lm)/Power(W): 95.66
Central intensity(cd): 5530.219
Maximum intensity(cd): 5530.219
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=34.6
 [C90/270]Total=34.6
Field angle(10%Imax): [C0/180]Total=49.2
 [C90/270]Total=49.2
Maximum s/h(1/2): C0_180=0.58 C90_270=0.58
Maximum s/h(1/4): C0_180=0.53 C90_270=0.53
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 74.85%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.590%

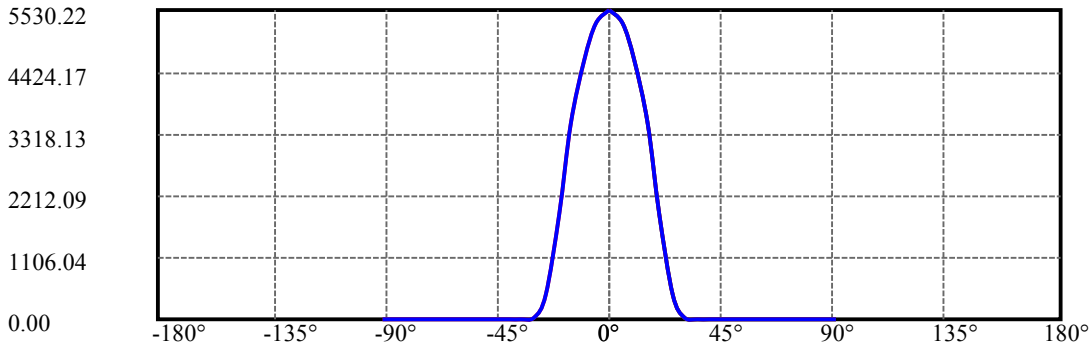
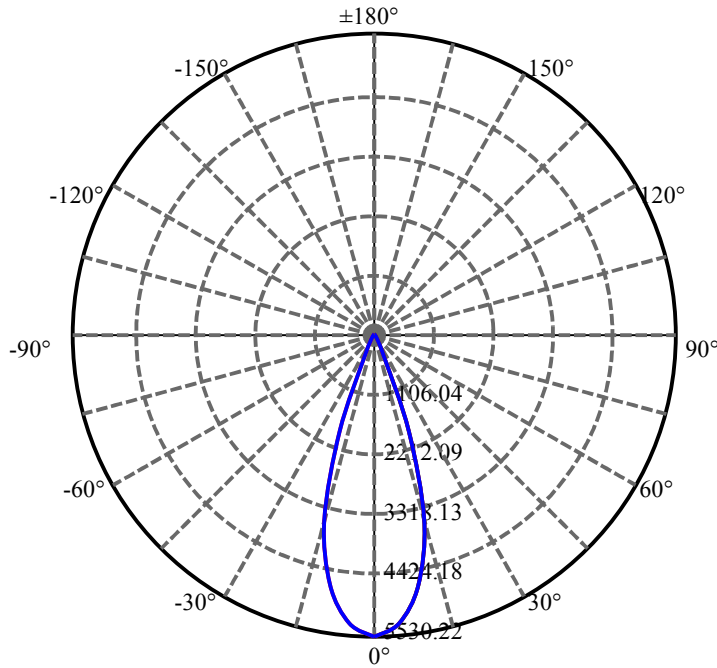
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5530.219	0.000	0	.000%	.000%
5.0	5288.836	129.339	129.339	5.457%	7.291%
10.0	4644.141	355.334	484.673	14.993%	27.322%
15.0	3513.727	483.919	968.592	20.419%	54.601%
20.0	1875.115	444.116	1412.708	18.739%	79.636%
25.0	443.763	243.208	1655.916	10.262%	93.346%
30.0	51.244	62.644	1718.559	2.643%	96.877%
35.0	17.044	10.056	1728.615	.424%	97.444%
40.0	11.770	4.807	1733.422	.203%	97.715%
45.0	9.893	4.011	1737.433	.169%	97.941%
50.0	9.028	3.823	1741.257	.161%	98.157%
55.0	8.522	3.816	1745.073	.161%	98.372%
60.0	8.241	3.875	1748.947	.163%	98.590%
65.0	8.086	3.969	1752.916	.167%	98.814%
70.0	7.980	4.068	1756.984	.172%	99.044%
75.0	7.931	4.159	1761.143	.175%	99.278%
80.0	7.889	4.233	1765.377	.179%	99.517%
85.0	7.861	4.280	1769.656	.181%	99.758%
90.0	7.826	4.295	1773.951	.181%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1718.56	72.51%	96.88%
0-40	1733.42	73.14%	97.72%
0-60	1748.95	73.80%	98.59%
0-90	1769.66	74.67%	99.76%
0-120	1769.66	74.67%	99.76%
0-180	1773.95	74.85%	100.00%
60-90	24.58	1.04%	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%
0-20.13	1419.16	59.88%	80.00%

ZONAL LUMEN SUMMARY

0-10	484.67
10-20	928.04
20-30	305.85
30-40	14.86
40-50	7.83
50-60	7.69
60-70	8.04
70-80	8.39
80-90	4.28
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: —————

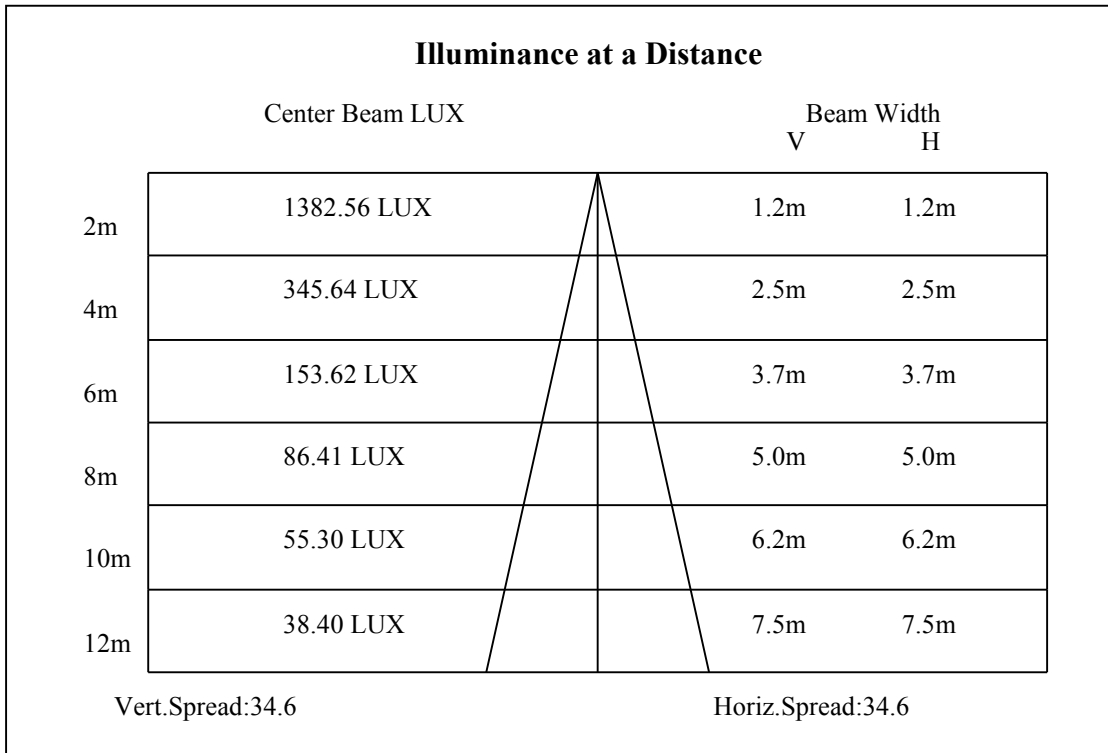
C90/C270: —————

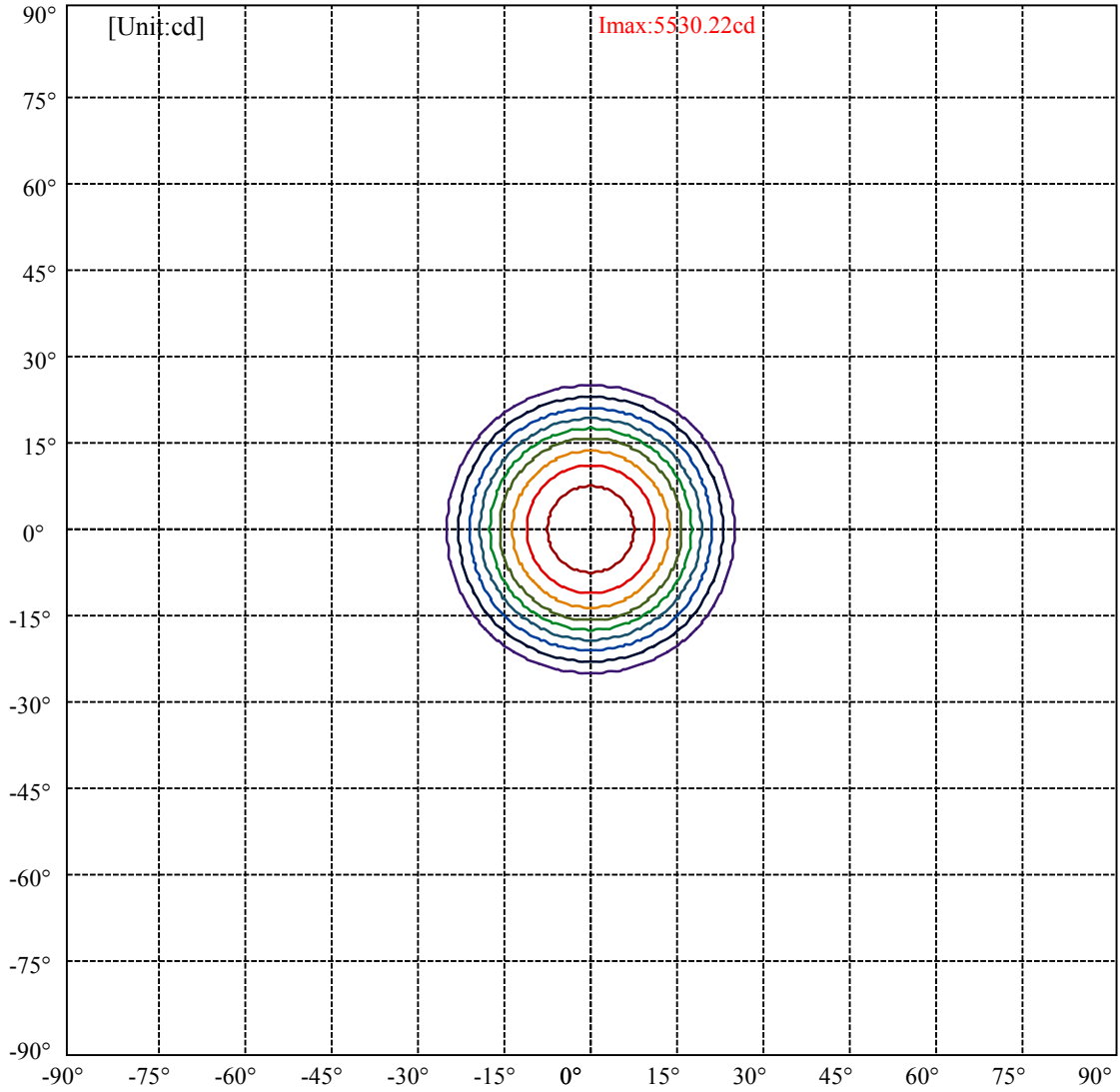
Field angle(10%Imax):C0/180Left:24.6 Right:24.6

:C90/270Left:24.6 Right:24.6

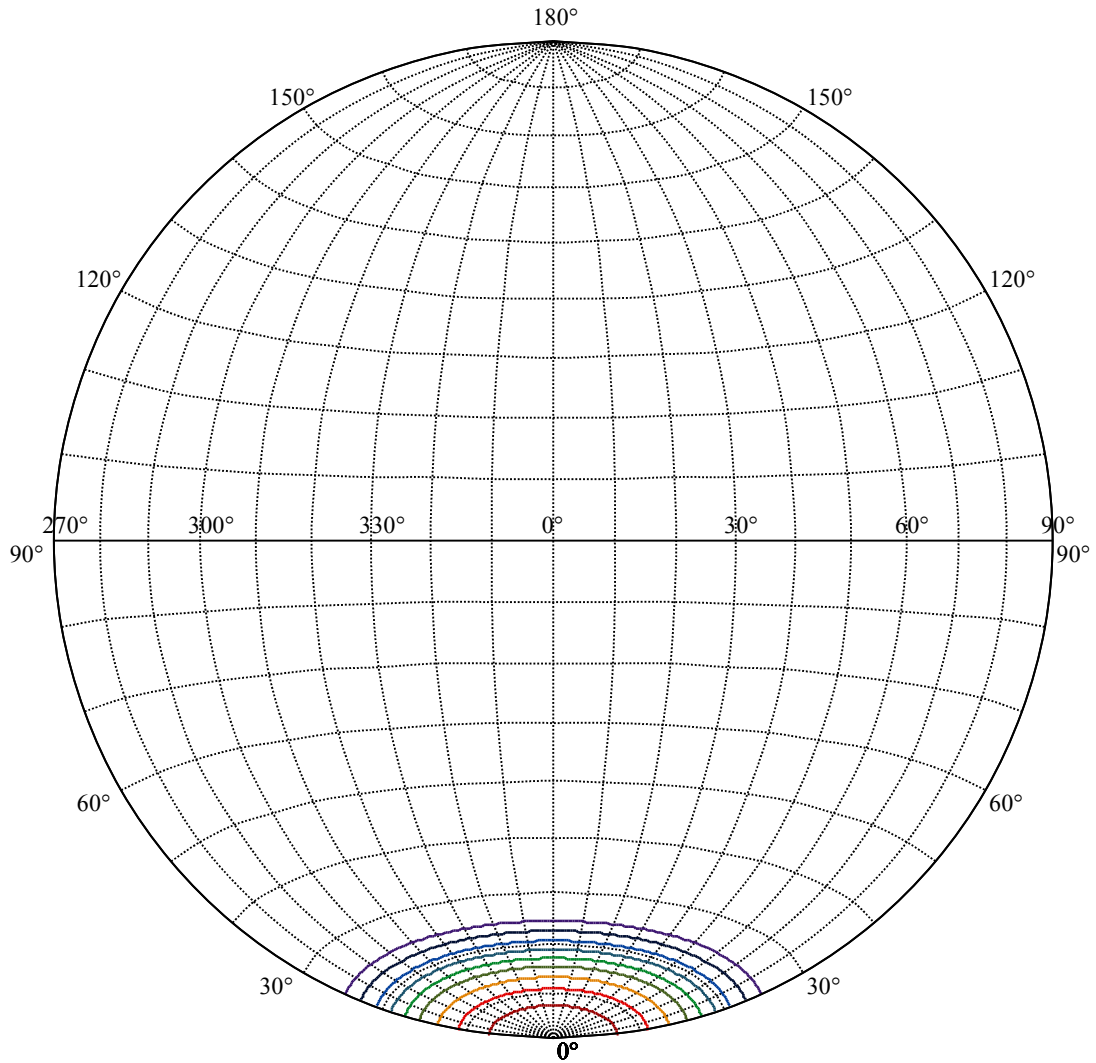
Beam Angle(50%Imax):C0/180Left:17.3 Right:17.3

:C90/270Left:17.3 Right:17.3





(10%I _{max}) 553.022	—
(20%I _{max}) 1106.04	—
(30%I _{max}) 1659.07	—
(40%I _{max}) 2212.09	—
(50%I _{max}) 2765.11	—
(60%I _{max}) 3318.13	—
(70%I _{max}) 3871.15	—
(80%I _{max}) 4424.17	—
(90%I _{max}) 4977.2	—



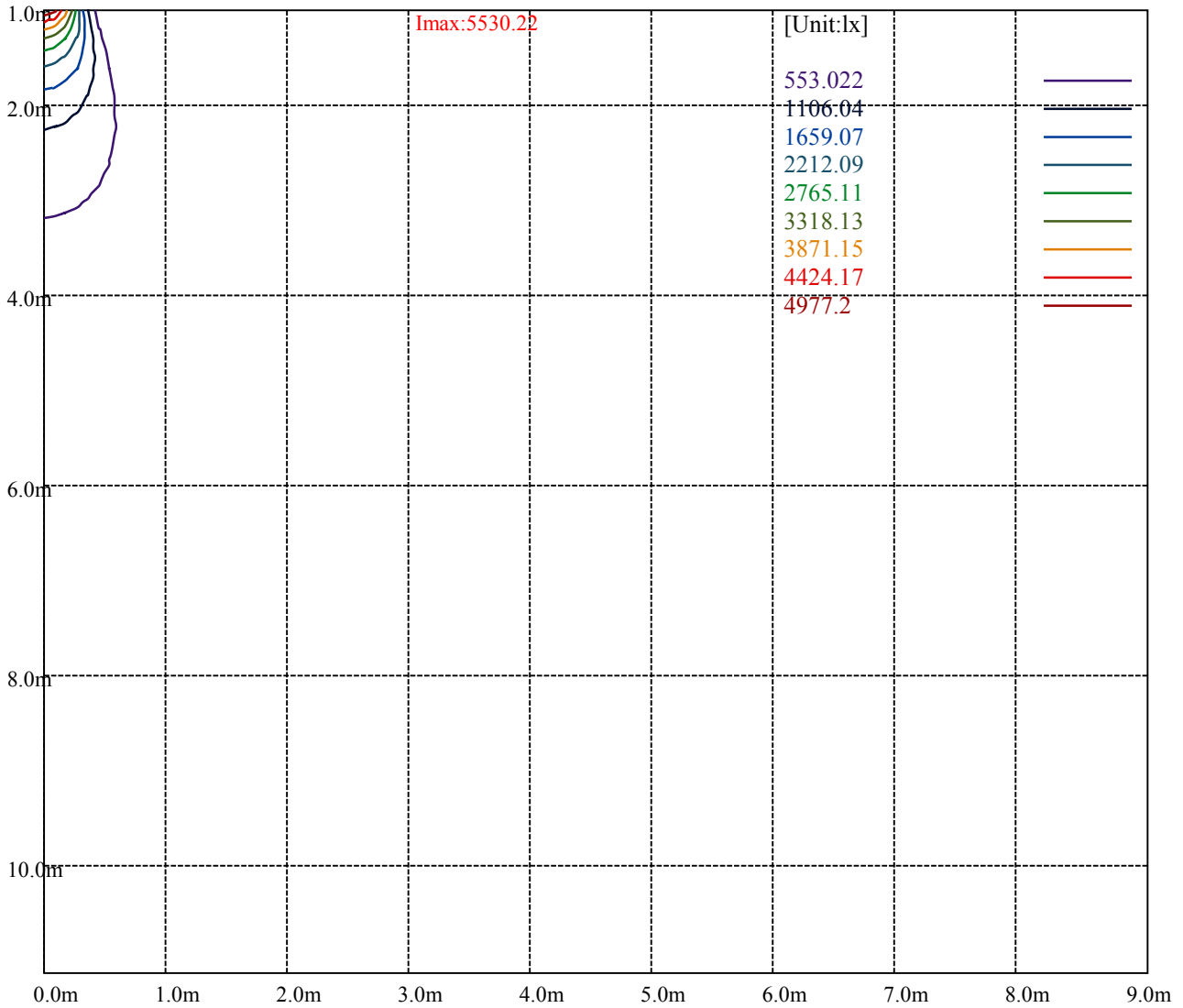
House

[Unit:cd]

Road

Imax:5530.22

(10%Imax) 553.022	—
(20%Imax) 1106.04	—
(30%Imax) 1659.07	—
(40%Imax) 2212.09	—
(50%Imax) 2765.11	—
(60%Imax) 3318.13	—
(70%Imax) 3871.15	—
(80%Imax) 4424.17	—
(90%Imax) 4977.2	—



Luminance Table

γ	45	50	55	60	65	70	75	80	85
C0	378	358	354	363	382	410	449	503	578
C45	407	390	390	405	432	471	527	606	721
C90	527	526	552	606	694	830	1056	1477	2510

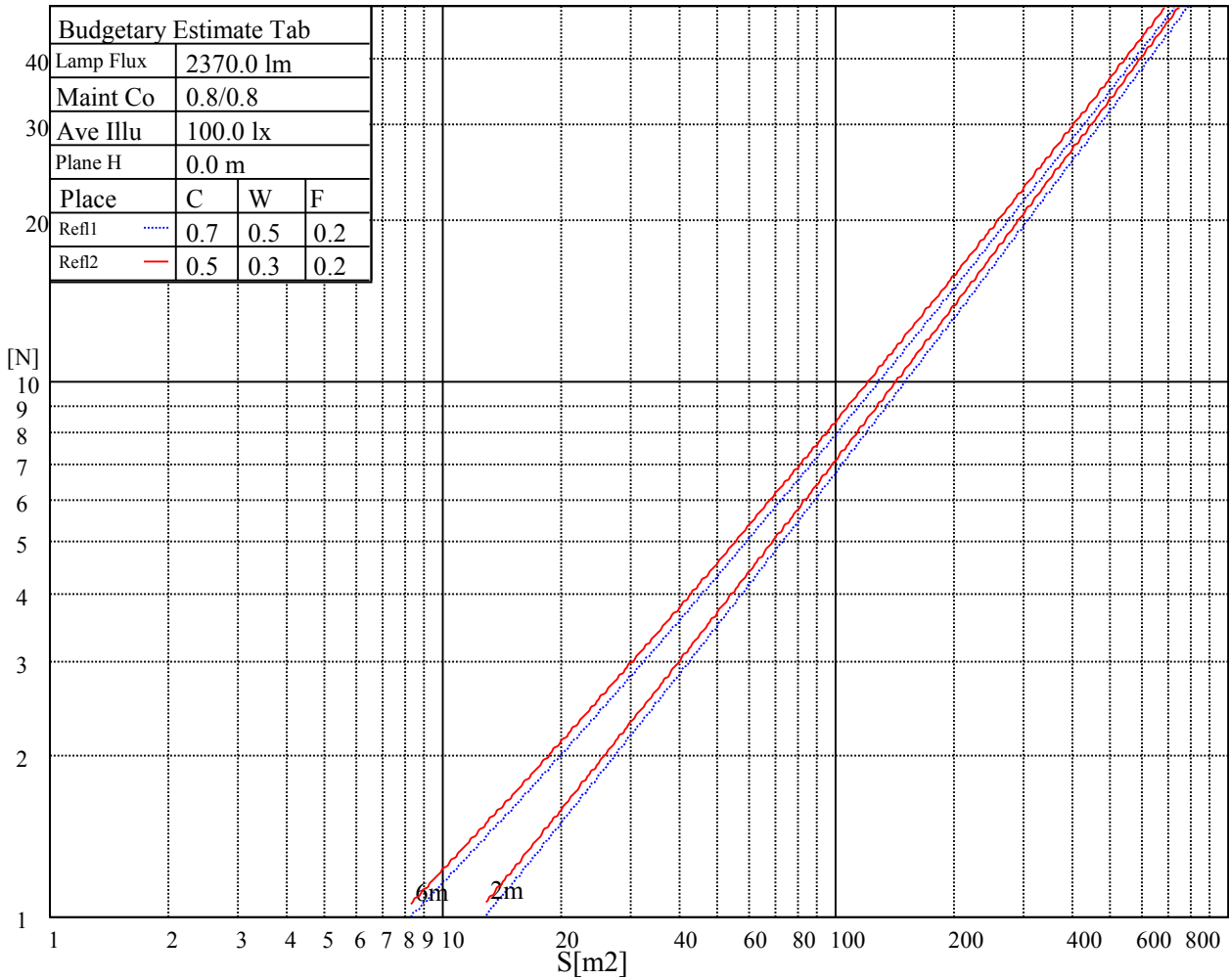
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
746	746	746	1195	1195	1195	3516	3516	3516

Glare Table

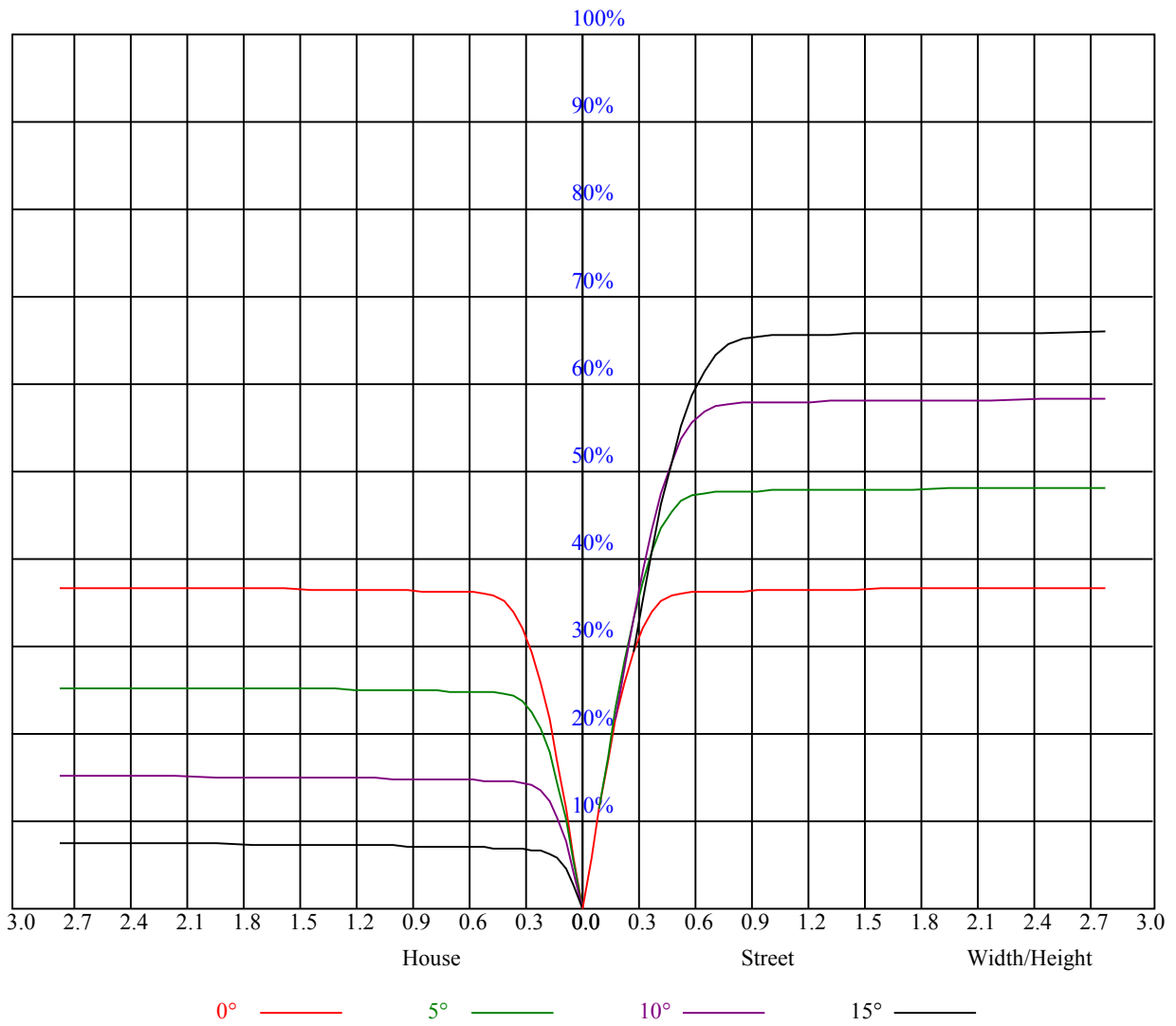
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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



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	5510.81	5401.69	4872.94	3858.19	2559.94	730.69	75.26	20.87	12.83
45.0	5560.31	5284.13	4623.75	3519.56	1918.13	357.19	43.59	15.64	11.48
90.0	5517.00	5167.69	4370.63	3084.19	1040.79	200.81	30.54	13.78	10.91
135.0	5532.75	5229.56	4553.44	3371.63	1740.94	352.13	38.53	14.68	11.14
180.0	5510.81	5157.00	4356.56	3171.94	1038.94	190.07	32.34	14.18	10.97
225.0	5560.31	5322.38	4705.88	3495.94	2091.38	427.56	46.46	17.49	11.93
270.0	5517.00	5414.63	4892.06	3933.56	2484.00	747.00	80.66	21.21	12.83
315.0	5532.75	5333.63	4777.88	3674.81	2126.81	544.67	62.55	18.51	12.09
360.0	5510.81	5401.69	4872.94	3858.19	2559.94	730.69	75.26	20.87	12.83
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	10.29	9.23	8.66	8.33	8.10	7.99	7.93	7.93	7.88
45.0	9.79	9.00	8.49	8.21	8.04	7.93	7.88	7.82	7.76
90.0	9.51	8.83	8.44	8.21	8.10	7.99	7.99	7.93	7.82
135.0	9.73	8.94	8.49	8.21	8.04	7.99	7.93	7.88	7.88
180.0	9.51	8.89	8.44	8.21	8.10	7.99	7.93	7.88	7.88
225.0	9.84	9.00	8.49	8.21	8.04	7.93	7.88	7.88	7.88
270.0	10.41	9.28	8.61	8.33	8.16	8.04	7.99	7.93	7.93
315.0	10.07	9.06	8.55	8.21	8.10	7.99	7.93	7.88	7.88
360.0	10.29	9.23	8.66	8.33	8.10	7.99	7.93	7.93	7.88
C/ γ (°)	90.0								
0.0	7.88								
45.0	7.76								
90.0	7.82								
135.0	7.82								
180.0	7.88								
225.0	7.82								
270.0	7.82								
315.0	7.82								
360.0	7.88								