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Nata

LumCAT: 1-1063-N	
Luminaire: 92.70.246.00	
Report No: 210630-B006	Voltage(V): 39.7500
Test No: 210630-C006	Current(A): 0.2510
LampCAT: Fortimo LED SLM 1201 G7N	Power (W): 9.9770
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): 922.64
Efficiency(%): 79.77%
Lumens(lm)/Power(W): 92.48
Central intensity(cd): 1777.570
Maximum intensity(cd): 1777.570
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=43.6
 [C90/270]Total=43.6
Field angle(10%Imax): [C0/180]Total=63.9
 [C90/270]Total=63.9
Maximum s/h(1/2): C0_180=0.71 C90_270=0.71
Maximum s/h(1/4): C0_180=0.67 C90_270=0.67
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 79.77%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.868%

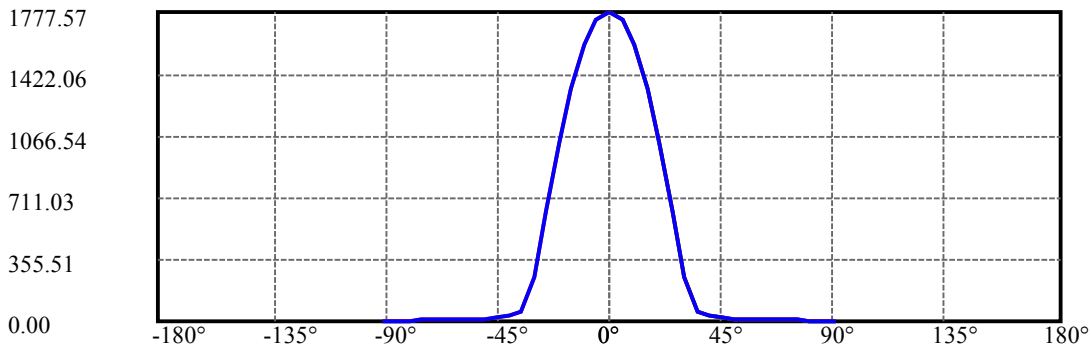
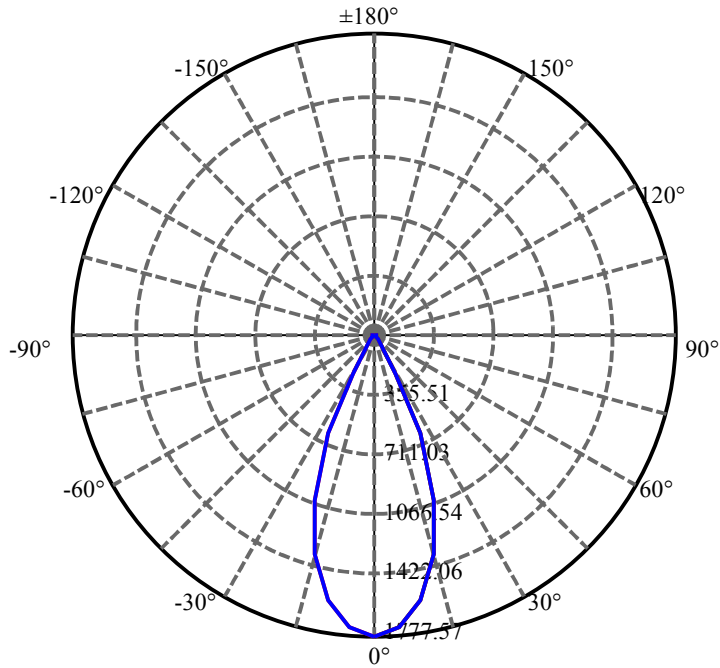
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1777.570	0.000	0	.000%	.000%
5.0	1728.492	41.914	41.914	3.624%	4.543%
10.0	1589.273	118.687	160.601	10.261%	17.407%
15.0	1337.766	173.630	334.231	15.011%	36.226%
20.0	1032.075	195.308	529.539	16.885%	57.394%
25.0	632.630	174.597	704.136	15.095%	76.318%
30.0	258.567	112.782	816.918	9.751%	88.542%
35.0	51.124	45.604	862.522	3.943%	93.484%
40.0	27.942	13.192	875.713	1.140%	94.914%
45.0	20.116	8.898	884.612	.769%	95.879%
50.0	15.623	7.222	891.834	.624%	96.661%
55.0	12.185	6.047	897.88	.523%	97.317%
60.0	9.802	5.082	902.962	.439%	97.868%
65.0	7.995	4.326	907.289	.374%	98.336%
70.0	6.968	3.789	911.077	.328%	98.747%
75.0	6.293	3.466	914.543	.300%	99.123%
80.0	5.456	3.144	917.687	.272%	99.463%
85.0	4.409	2.681	920.368	.232%	99.754%
90.0	3.881	2.270	922.637	.196%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	816.92	70.63%	88.54%
0-40	875.71	75.71%	94.91%
0-60	902.96	78.07%	97.87%
0-90	920.37	79.57%	99.75%
0-120	920.37	79.57%	99.75%
0-180	922.64	79.77%	100.00%
60-90	22.49	1.94%	2.44%
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%
0-26.51	738.11	63.81%	80.00%

ZONAL LUMEN SUMMARY

0-10	160.60
10-20	368.94
20-30	287.38
30-40	58.80
40-50	16.12
50-60	11.13
60-70	8.11
70-80	6.61
80-90	2.68
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: —————

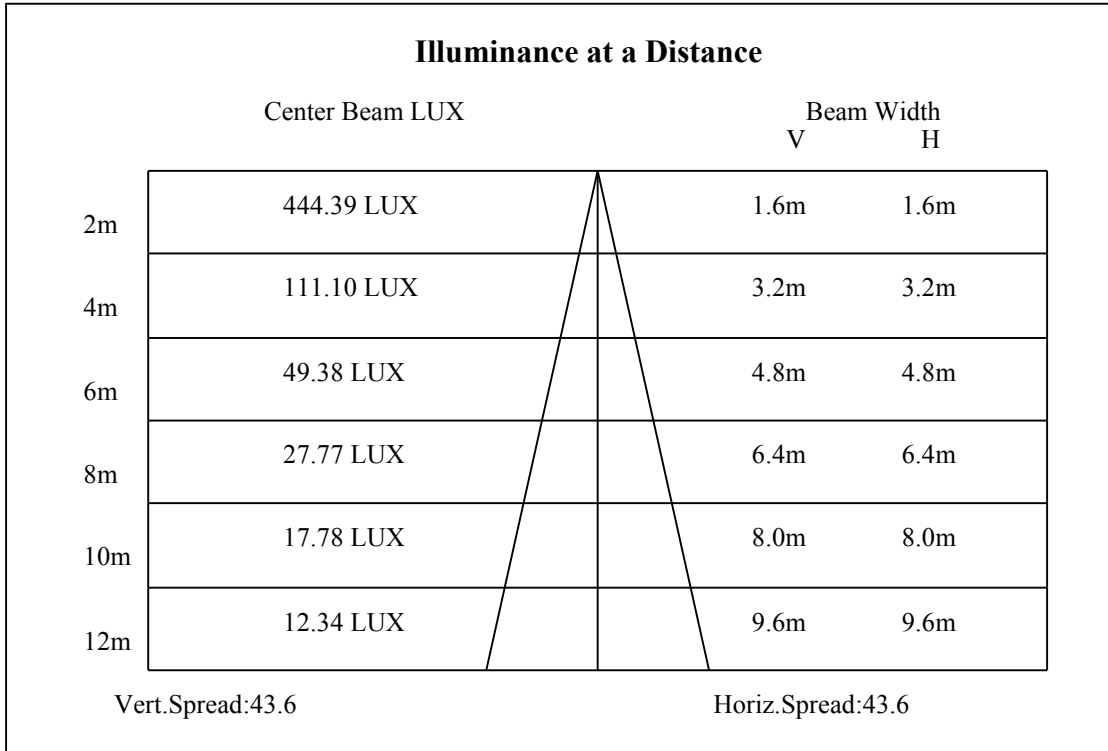
C90/C270: —————

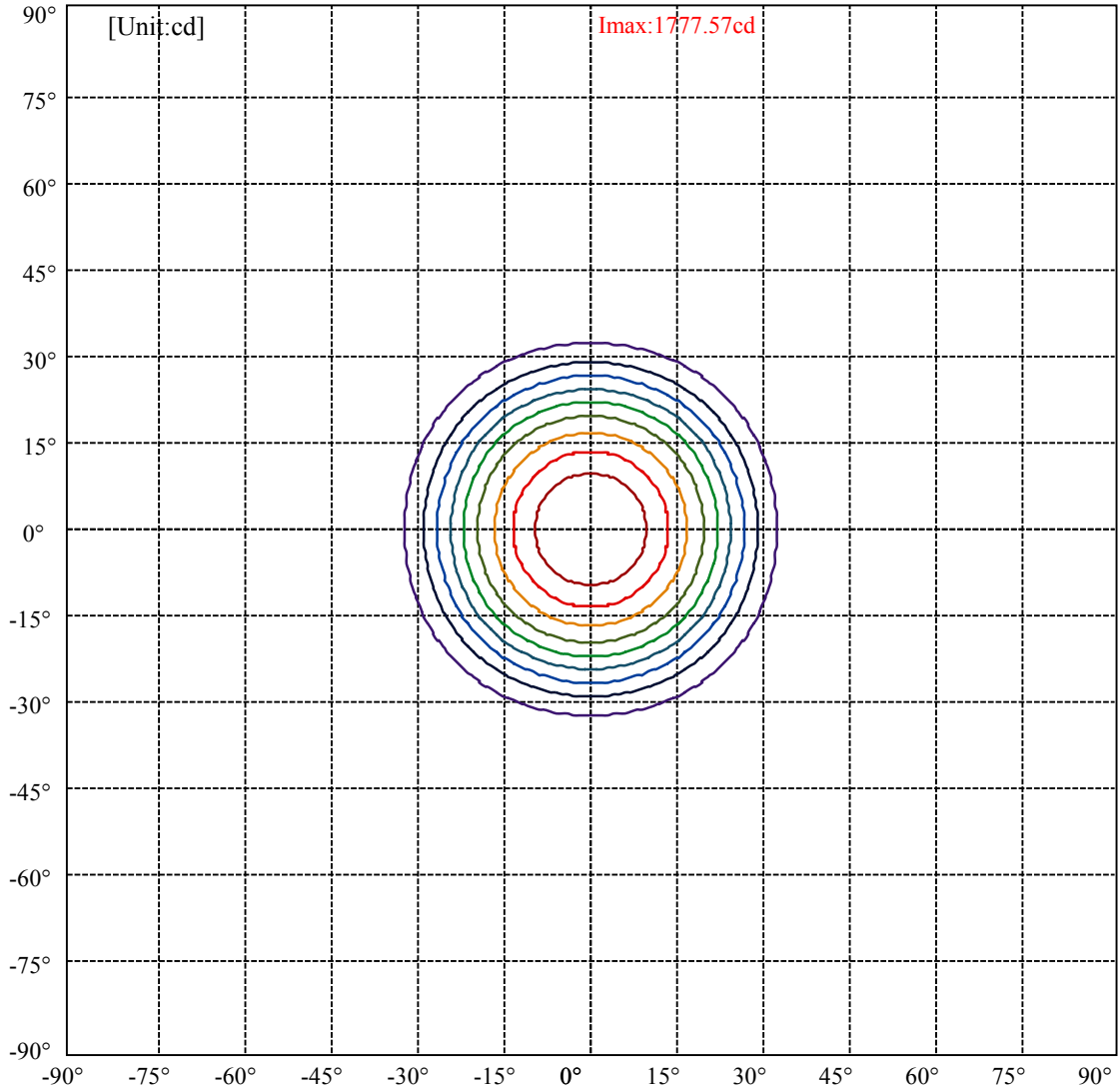
Field angle(10%Imax):C0/180Left:31.9 Right:31.9

:C90/270Left:31.9 Right:31.9

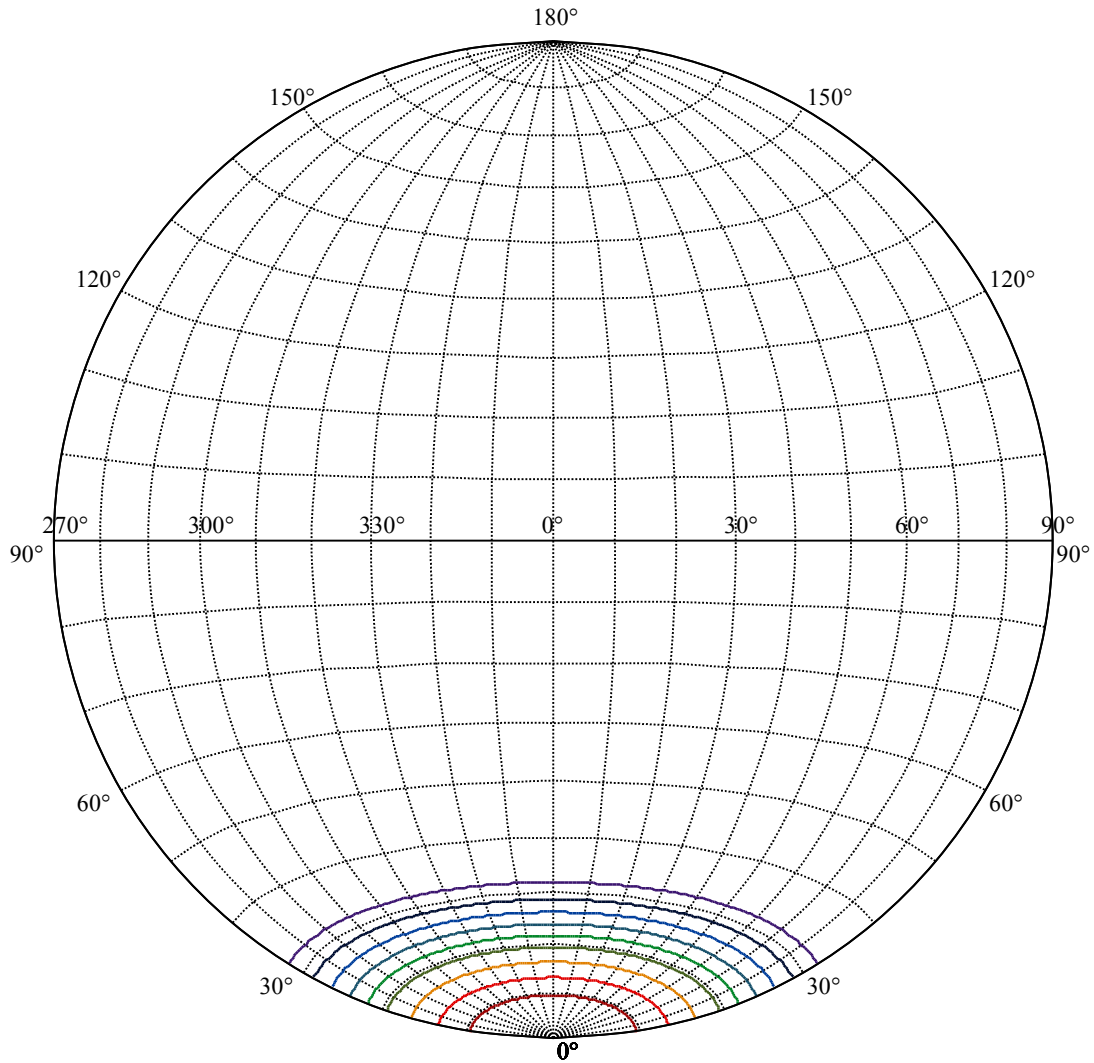
Beam Angle(50%Imax):C0/180Left:21.8 Right:21.8

:C90/270Left:21.8 Right:21.8





(10%Imax) 177.757	—
(20%Imax) 355.514	—
(30%Imax) 533.271	—
(40%Imax) 711.028	—
(50%Imax) 888.785	—
(60%Imax) 1066.54	—
(70%Imax) 1244.3	—
(80%Imax) 1422.06	—
(90%Imax) 1599.81	—



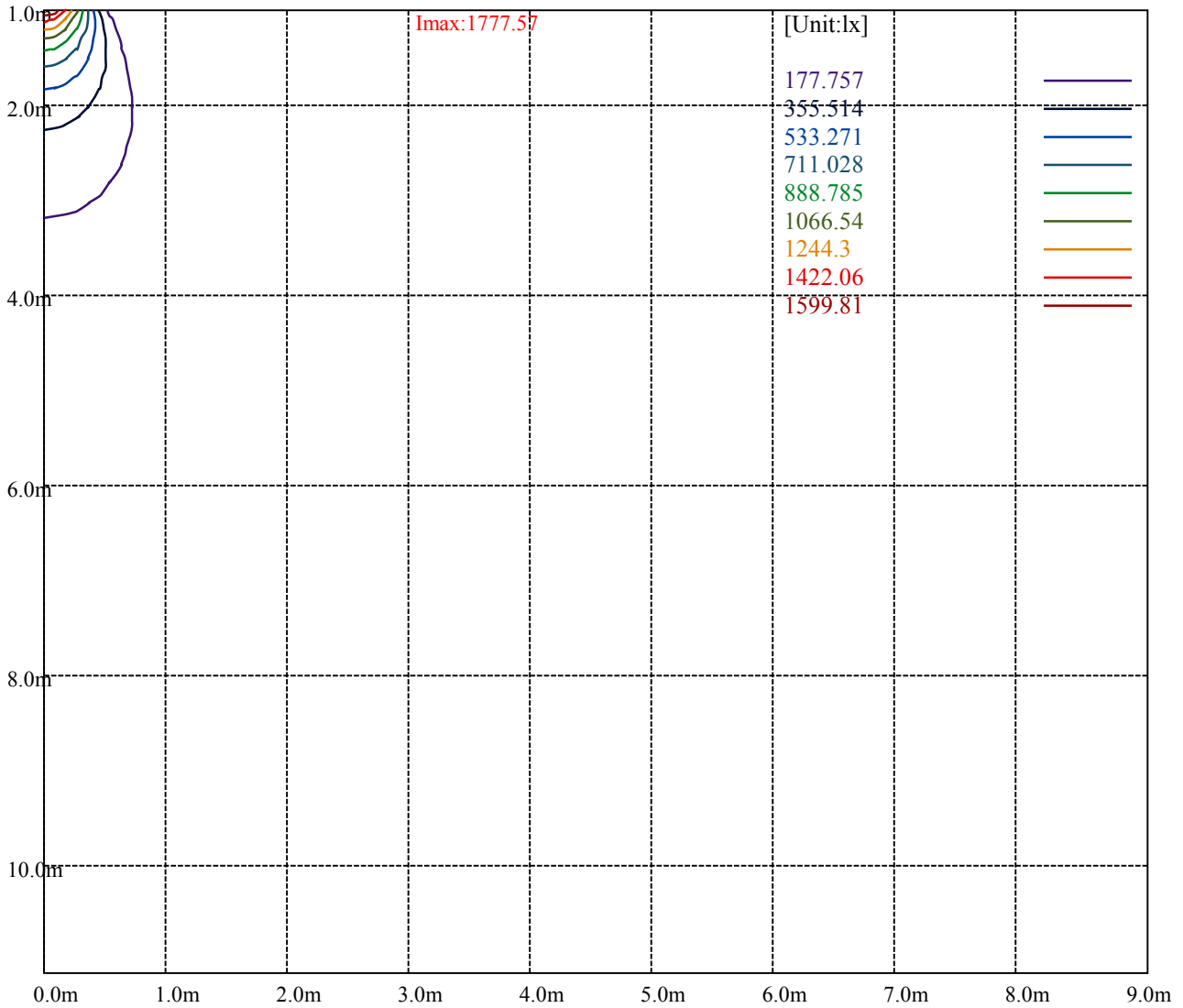
House

[Unit:cd]

Road

I_{max}:1777.57

(10%I _{max})	177.757	—
(20%I _{max})	355.514	—
(30%I _{max})	533.271	—
(40%I _{max})	711.028	—
(50%I _{max})	888.785	—
(60%I _{max})	1066.54	—
(70%I _{max})	1244.3	—
(80%I _{max})	1422.06	—
(90%I _{max})	1599.81	—



Luminance Table

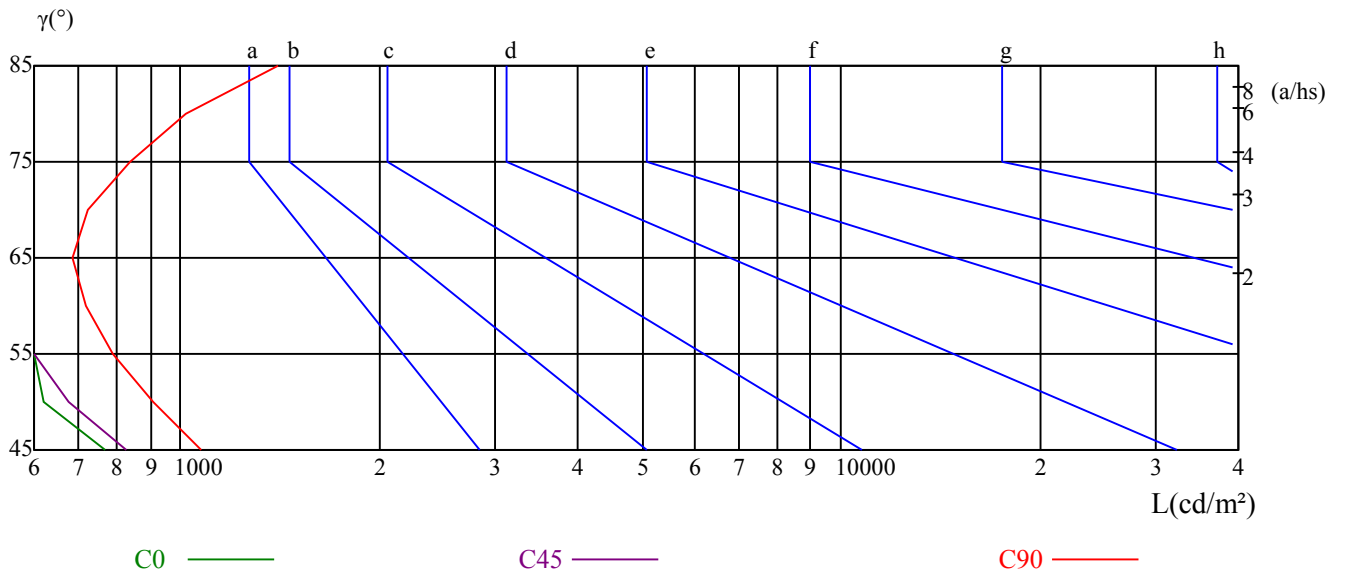
γ	45	50	55	60	65	70	75	80	85
C0	768	619	507	432	378	358	357	348	324
C45	828	675	558	481	427	411	418	419	404
C90	1072	910	789	720	686	724	838	1022	1408

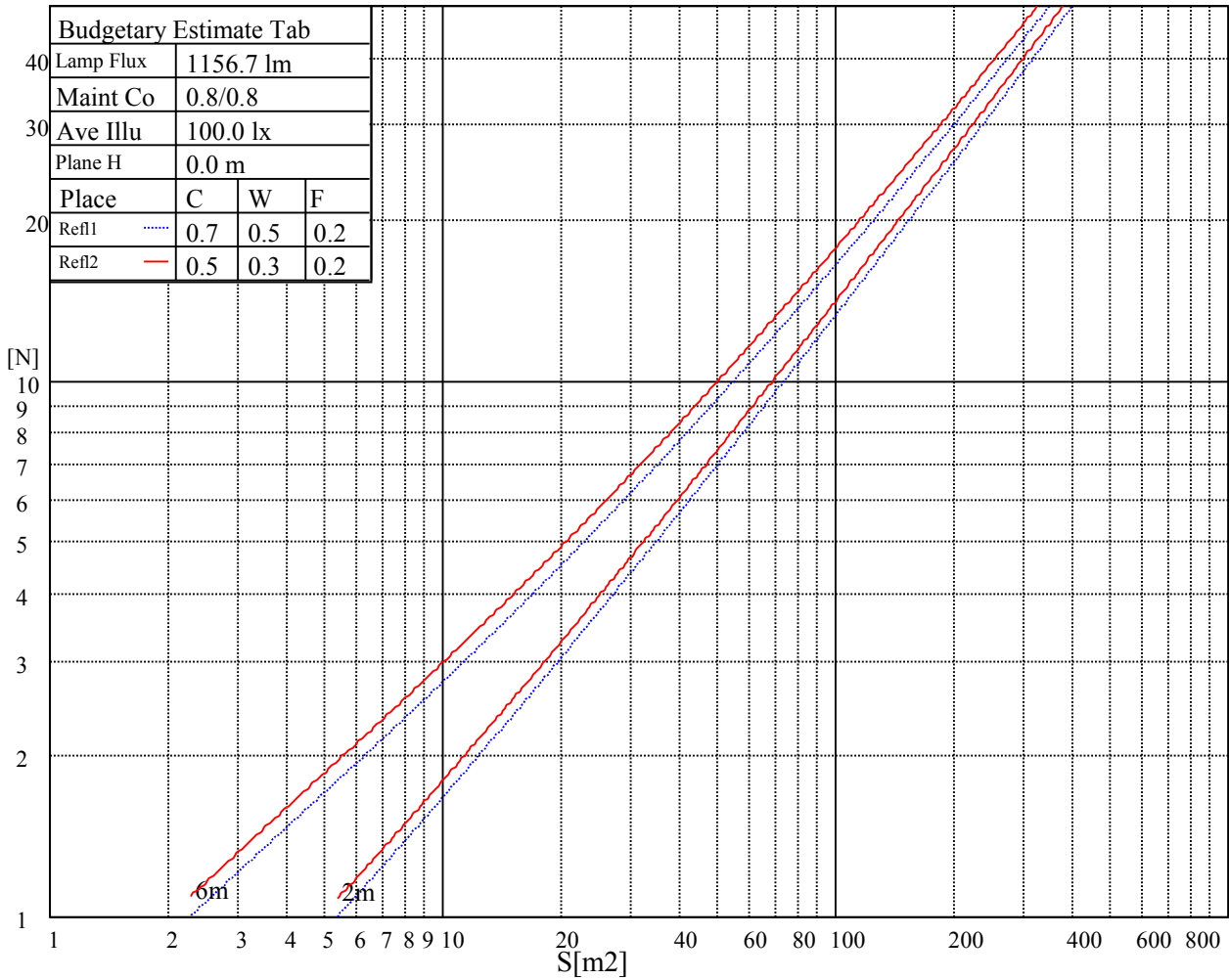
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
737	737	737	948	948	948	1972	1972	1972

Glare Table

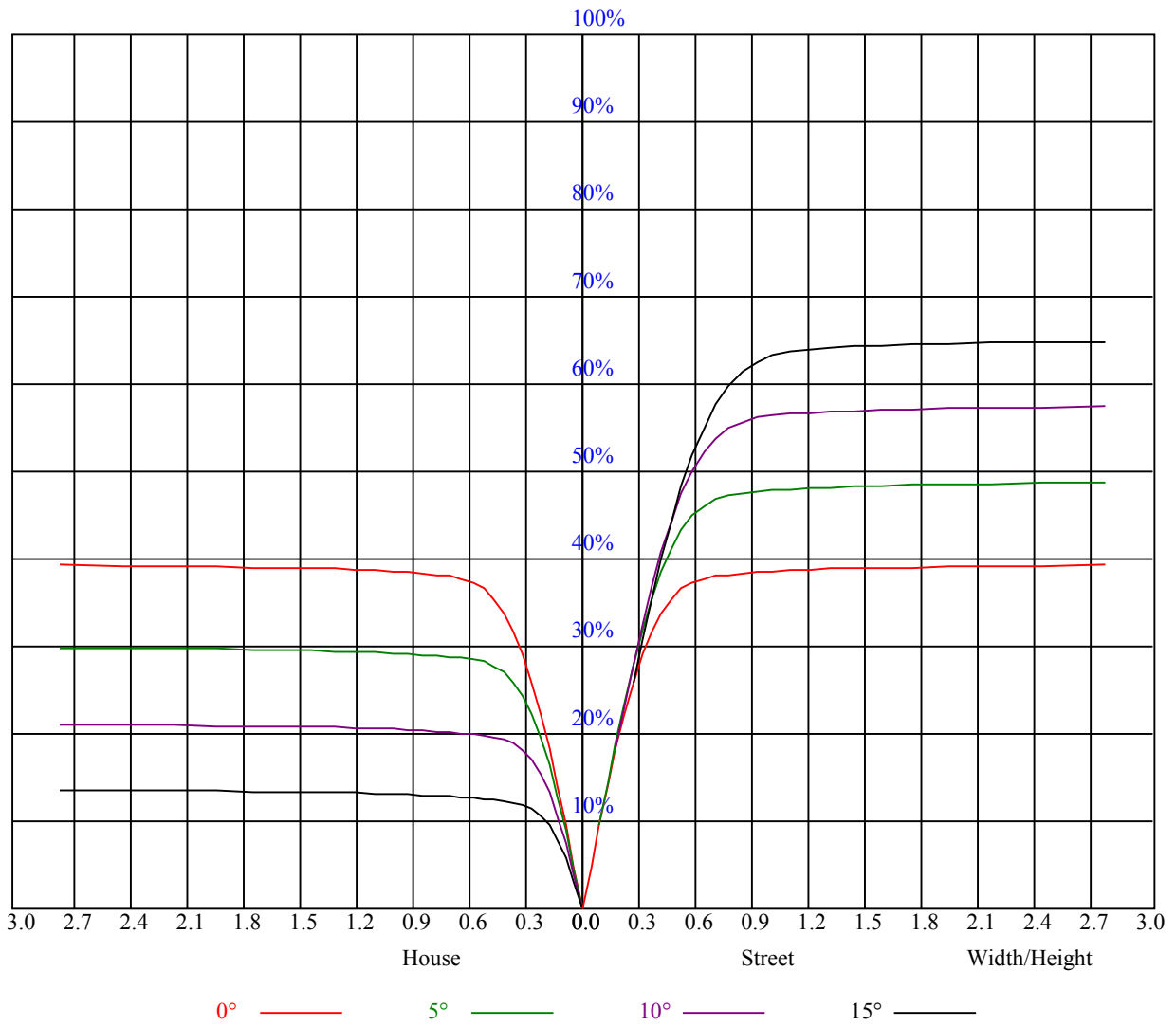
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.81	0.81	0.81	0.80
1	0.89	0.87	0.85	0.87	0.85	0.84	0.84	0.82	0.81	0.81	0.80	0.79	0.78	0.77	0.77	0.75
2	0.83	0.80	0.78	0.82	0.79	0.77	0.79	0.77	0.75	0.77	0.75	0.74	0.75	0.74	0.72	0.71
3	0.79	0.75	0.72	0.78	0.74	0.72	0.76	0.73	0.71	0.74	0.71	0.69	0.72	0.70	0.68	0.67
4	0.74	0.71	0.68	0.74	0.70	0.67	0.72	0.69	0.66	0.70	0.68	0.66	0.69	0.67	0.65	0.64
5	0.71	0.67	0.64	0.70	0.66	0.63	0.69	0.65	0.63	0.67	0.65	0.62	0.66	0.64	0.62	0.61
6	0.67	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.60	0.65	0.62	0.59	0.64	0.61	0.59	0.58
7	0.64	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.57	0.62	0.59	0.56	0.61	0.58	0.56	0.55
8	0.61	0.57	0.54	0.61	0.57	0.54	0.60	0.57	0.54	0.59	0.56	0.54	0.59	0.56	0.54	0.53
9	0.59	0.55	0.52	0.58	0.55	0.52	0.58	0.54	0.52	0.57	0.54	0.52	0.56	0.54	0.51	0.50
10	0.56	0.52	0.50	0.56	0.52	0.50	0.55	0.52	0.50	0.55	0.52	0.49	0.54	0.51	0.49	0.48



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	1778.63	1745.44	1639.69	1414.69	1128.94	739.13	357.75	69.58	31.95
45.0	1777.50	1726.31	1593.00	1375.31	1063.69	651.38	285.19	51.24	28.13
90.0	1774.13	1707.75	1557.00	1298.81	964.97	573.86	188.21	40.78	25.76
135.0	1779.75	1730.25	1589.06	1326.38	1036.13	619.88	293.63	47.98	26.94
180.0	1778.63	1703.81	1532.25	1211.63	900.28	519.53	156.21	37.46	24.69
225.0	1777.50	1729.69	1581.19	1315.69	1012.56	601.48	222.02	45.84	27.23
270.0	1774.13	1748.81	1635.19	1406.81	1099.13	694.13	316.69	60.98	30.43
315.0	1780.31	1735.88	1586.81	1352.81	1050.92	661.67	248.85	55.13	28.41
360.0	1778.63	1745.44	1639.69	1414.69	1128.94	739.13	357.75	69.58	31.95
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	22.39	17.04	13.22	10.58	8.49	7.20	6.47	5.68	4.56
45.0	20.08	15.81	12.38	9.90	8.10	7.03	6.36	5.57	4.50
90.0	18.96	14.91	11.53	9.51	7.76	6.86	6.30	5.51	4.33
135.0	19.80	15.36	12.09	9.51	7.93	6.98	6.30	5.34	4.39
180.0	18.39	14.57	11.25	9.28	7.59	6.69	6.08	5.12	4.22
225.0	19.46	15.19	12.04	9.62	7.88	6.92	6.19	5.34	4.33
270.0	21.43	16.31	12.66	10.18	8.21	7.09	6.41	5.57	4.56
315.0	20.42	15.81	12.32	9.84	7.99	6.98	6.24	5.51	4.39
360.0	22.39	17.04	13.22	10.58	8.49	7.20	6.47	5.68	4.56
C/γ(°)	90.0								
0.0	3.88								
45.0	3.88								
90.0	3.88								
135.0	3.88								
180.0	3.88								
225.0	3.88								
270.0	3.88								
315.0	3.88								
360.0	3.88								