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Nata

LumCAT: 1-0937-N	
Luminaire: 92.70.246.00	
Report No: 210706-B004	Voltage(V): 36.5000
Test No: 210706-C004	Current(A): 0.4510
LampCAT: Fortimo LED SLM 1203 G7N	Power (W): 16.4610
Lamp flux(lm): 2143.4	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): 1661.85
Efficiency(%): 77.53%
Lumens(lm)/Power(W): 100.96
Central intensity(cd): 4362.329
Maximum intensity(cd): 4362.329
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=35.1
 [C90/270]Total=35.1
Field angle(10%Imax): [C0/180]Total=57.1
 [C90/270]Total=57.1
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(%): 77.53%
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%

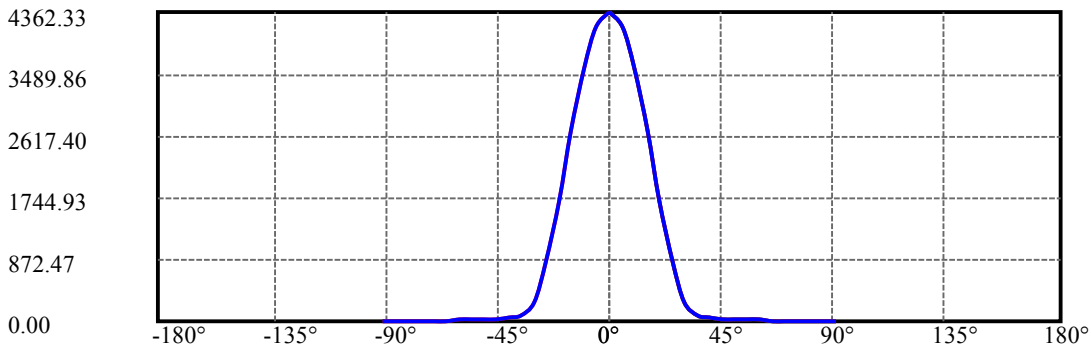
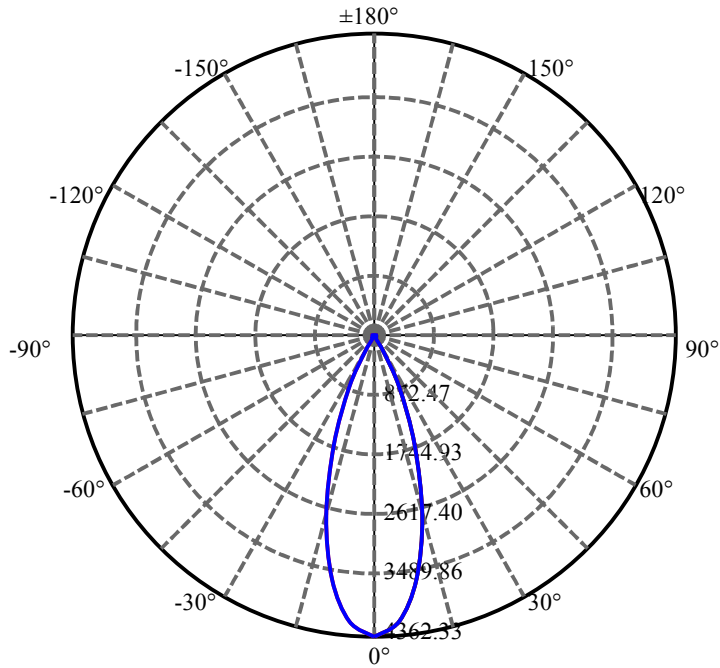
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4362.328	0.000	0	.000%	.000%
5.0	4149.281	101.754	101.754	4.747%	6.123%
10.0	3575.672	276.346	378.1	12.893%	22.752%
15.0	2691.000	371.735	749.835	17.343%	45.120%
20.0	1696.500	361.592	1111.426	16.870%	66.879%
25.0	827.128	264.682	1376.108	12.348%	82.806%
30.0	273.544	139.291	1515.399	6.498%	91.187%
35.0	70.952	50.729	1566.129	2.367%	94.240%
40.0	47.918	19.833	1585.961	.925%	95.433%
45.0	33.659	15.105	1601.066	.705%	96.342%
50.0	24.673	11.787	1612.852	.550%	97.052%
55.0	18.443	9.375	1622.227	.437%	97.616%
60.0	14.906	7.709	1629.936	.360%	98.079%
65.0	12.516	6.666	1636.602	.311%	98.481%
70.0	11.025	5.961	1642.563	.278%	98.839%
75.0	9.830	5.451	1648.014	.254%	99.167%
80.0	8.902	5.012	1653.026	.234%	99.469%
85.0	8.114	4.624	1657.649	.216%	99.747%
90.0	7.235	4.203	1661.852	.196%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1515.40	70.70%	91.19%
0-40	1585.96	73.99%	95.43%
0-60	1629.94	76.04%	98.08%
0-90	1657.65	77.34%	99.75%
0-120	1657.65	77.34%	99.75%
0-180	1661.85	77.53%	100.00%
60-90	35.42	1.65%	2.13%
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%
0-24.12	1329.48	62.03%	80.00%

ZONAL LUMEN SUMMARY

0-10	378.10
10-20	733.33
20-30	403.97
30-40	70.56
40-50	26.89
50-60	17.08
60-70	12.63
70-80	10.46
80-90	4.62
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: —————

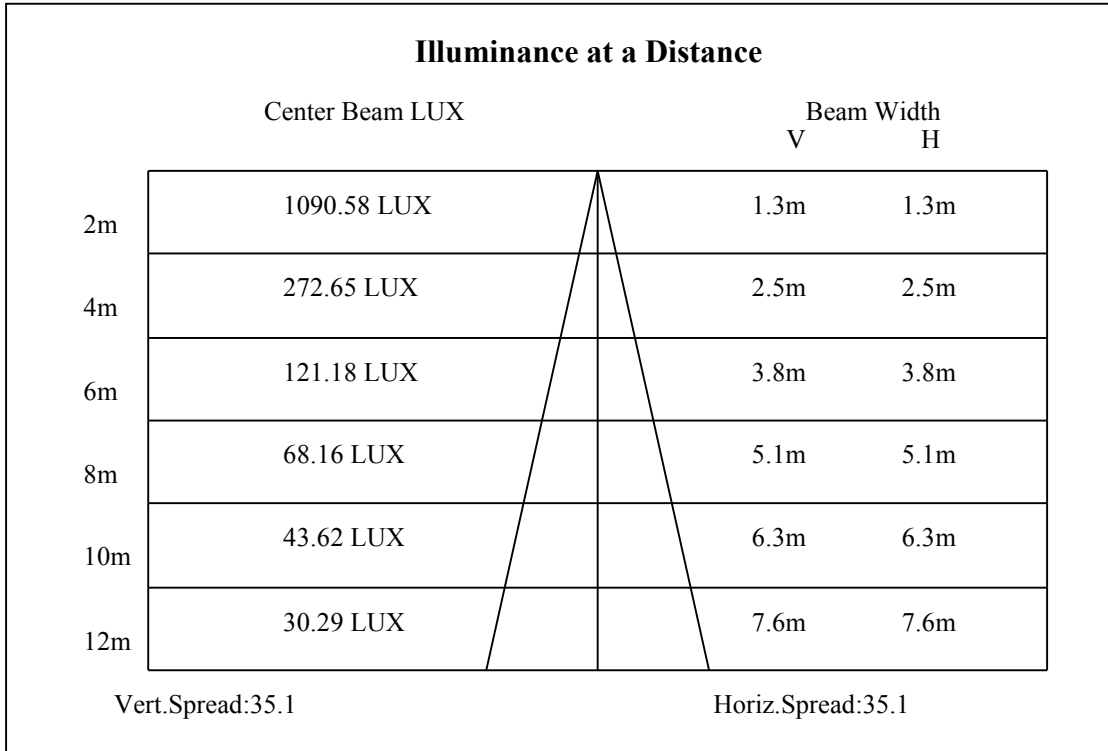
C90/C270: —————

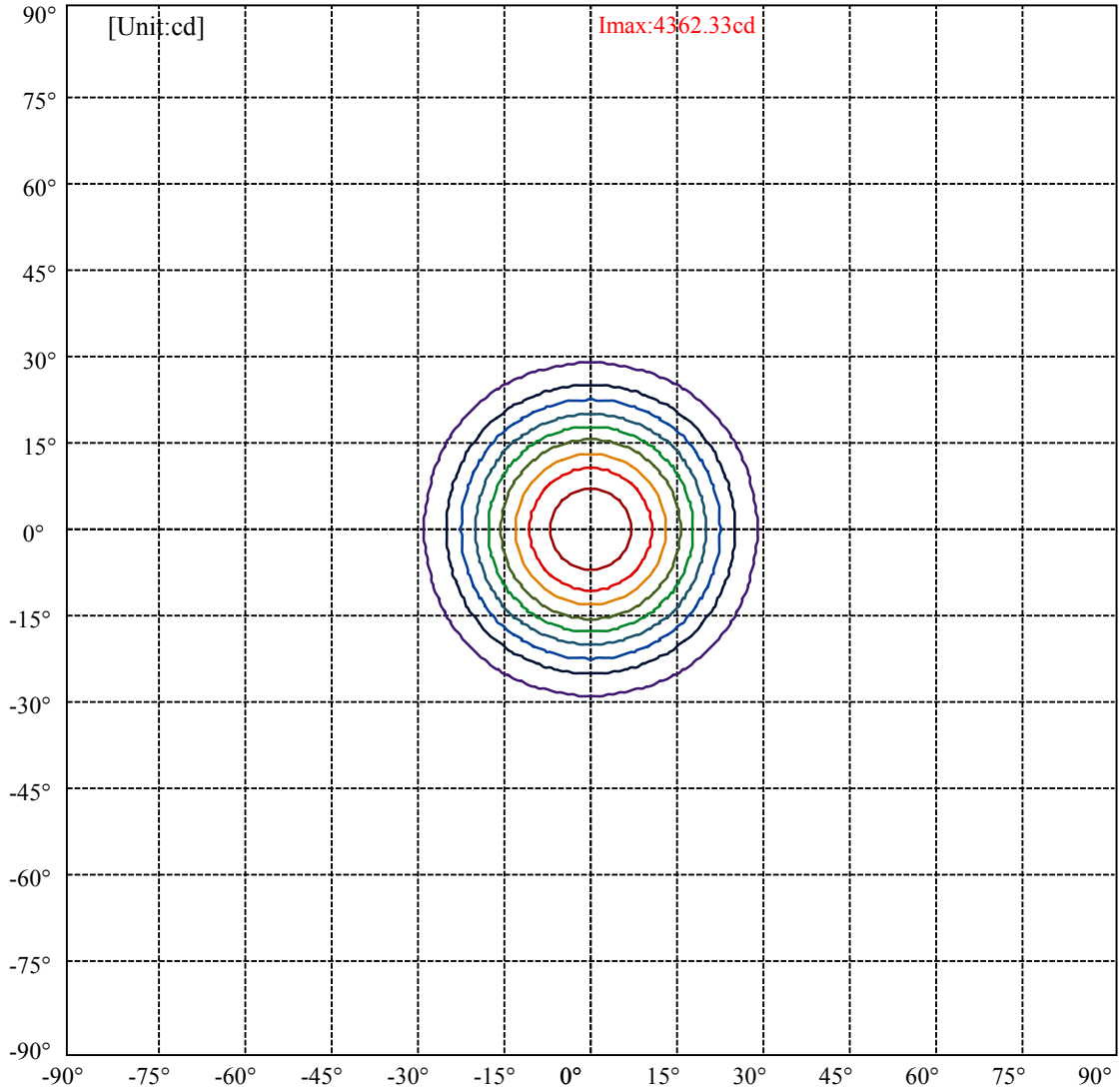
Field angle(10%Imax):C0/180Left:28.5 Right:28.5

:C90/270Left:28.5 Right:28.5

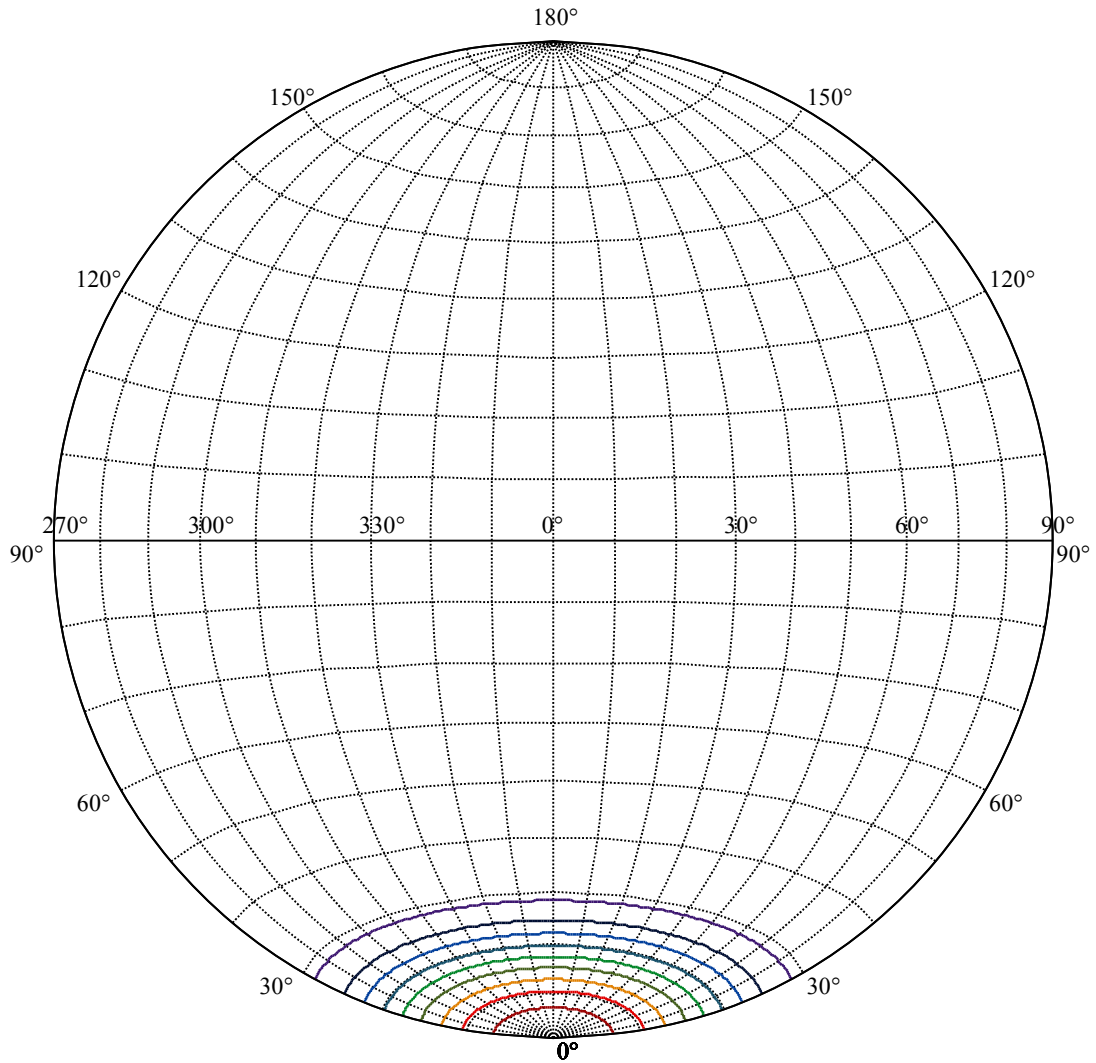
Beam Angle(50%Imax):C0/180Left:17.6 Right:17.6

:C90/270Left:17.6 Right:17.6





(10%Imax) 436.233	—
(20%Imax) 872.466	—
(30%Imax) 1308.7	—
(40%Imax) 1744.93	—
(50%Imax) 2181.16	—
(60%Imax) 2617.4	—
(70%Imax) 3053.63	—
(80%Imax) 3489.86	—
(90%Imax) 3926.1	—



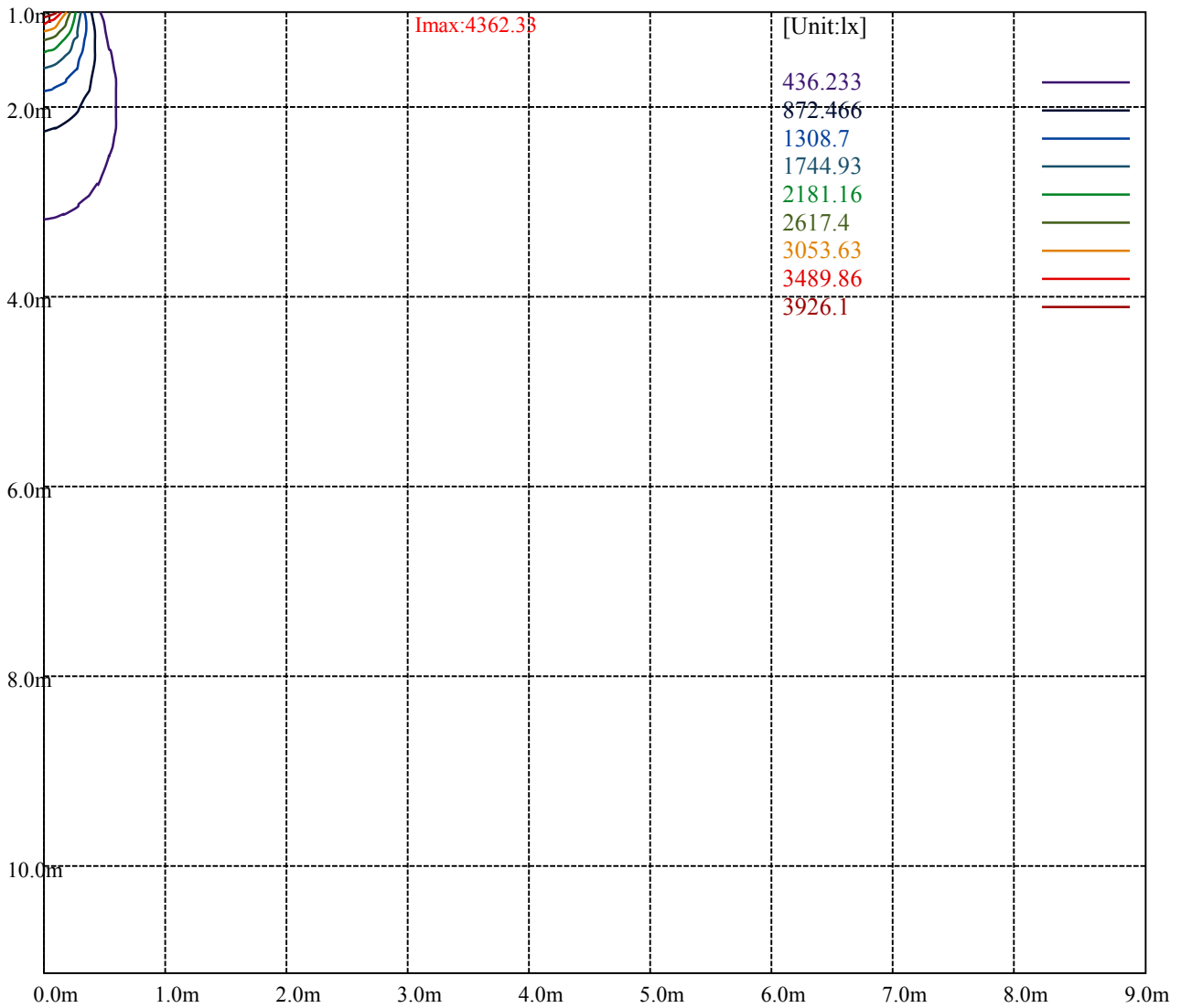
House

[Unit:cd]

Road

Imax:4362.33

(10%Imax) 436.233	—
(20%Imax) 872.466	—
(30%Imax) 1308.7	—
(40%Imax) 1744.93	—
(50%Imax) 2181.16	—
(60%Imax) 2617.4	—
(70%Imax) 3053.63	—
(80%Imax) 3489.86	—
(90%Imax) 3926.1	—



Luminance Table

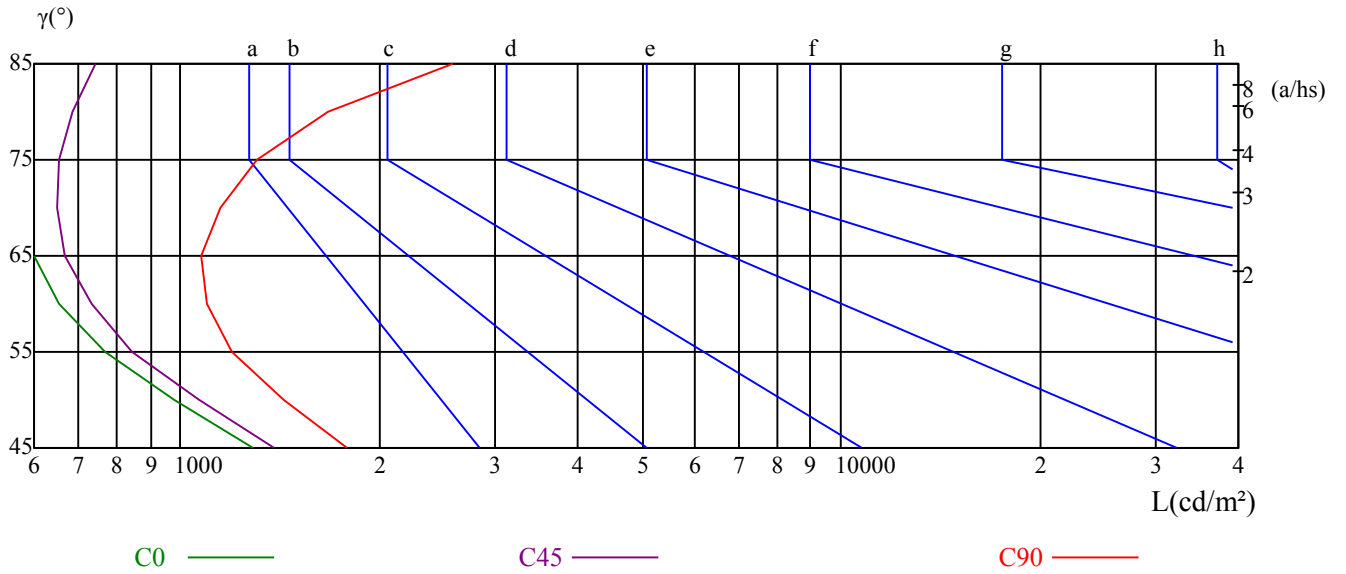
γ	45	50	55	60	65	70	75	80	85
C0	1285	978	767	657	591	566	557	568	597
C45	1386	1066	845	732	668	651	654	684	744
C90	1793	1436	1194	1096	1074	1146	1309	1667	2591

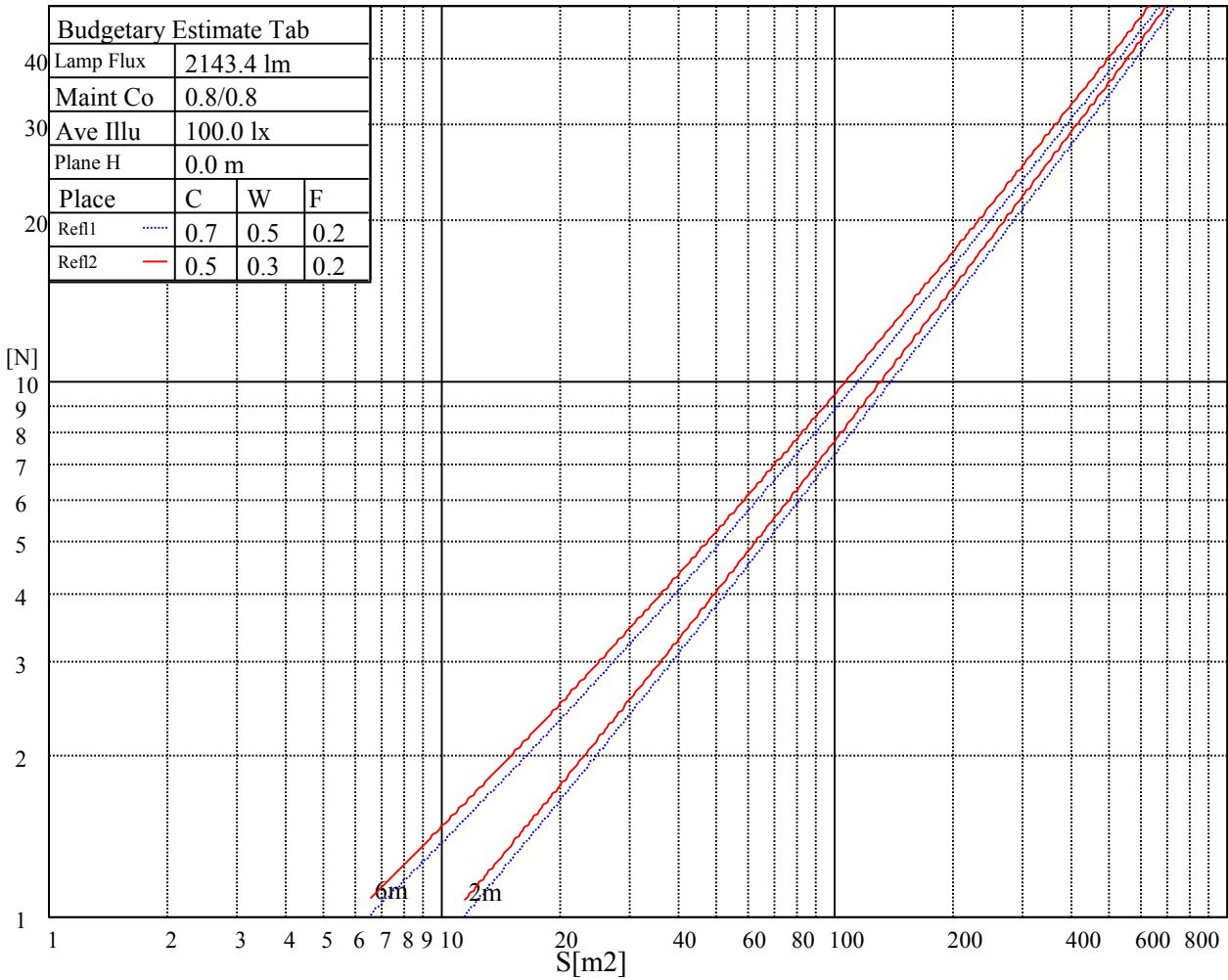
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1155	1155	1155	1481	1481	1481	3630	3630	3630

Glare Table

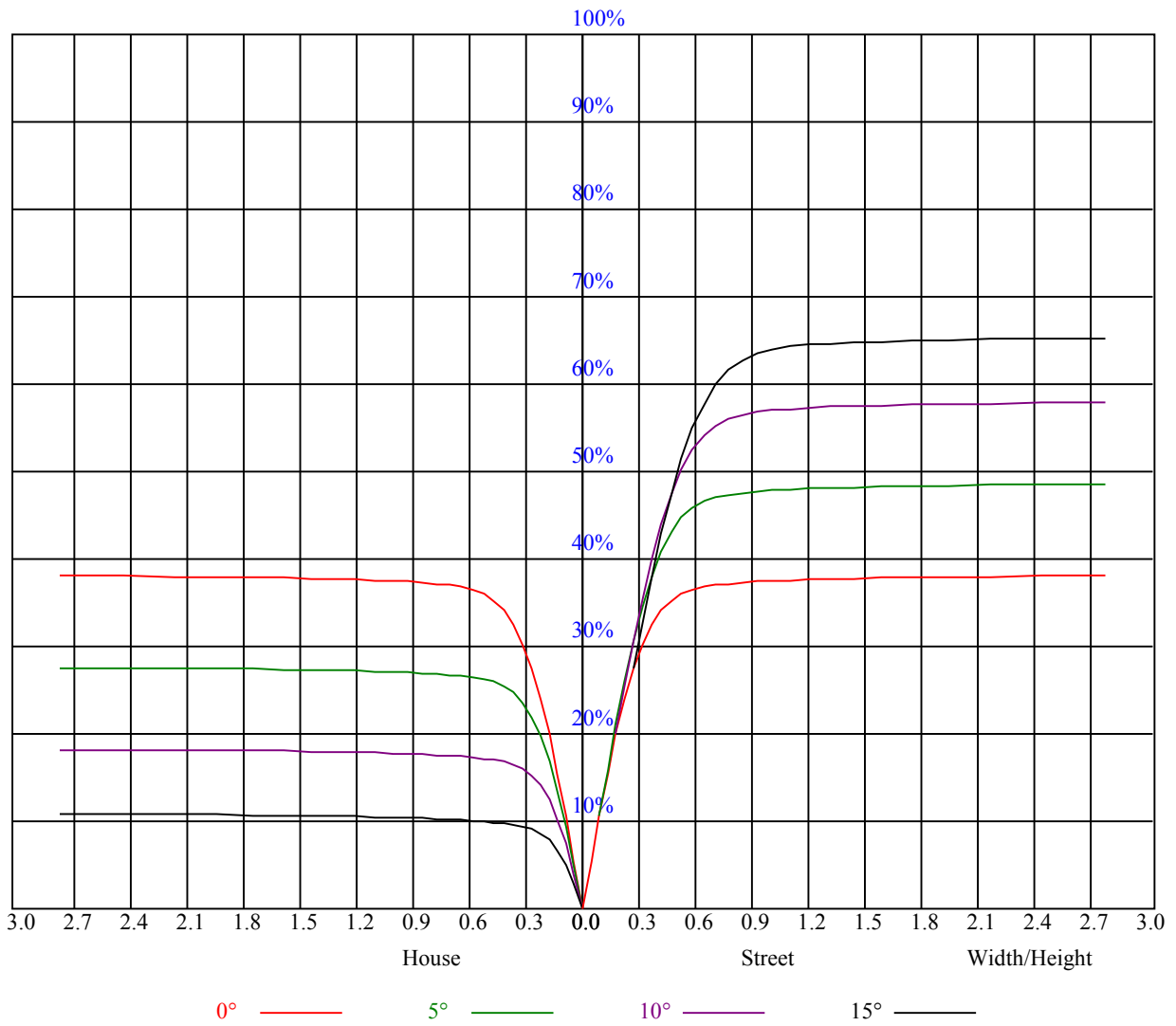
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.92	0.92	0.92	0.90	0.90	0.90	0.86	0.86	0.86	0.82	0.82	0.82	0.79	0.79	0.79	0.78
1	0.87	0.85	0.83	0.85	0.83	0.82	0.82	0.81	0.79	0.79	0.78	0.77	0.76	0.76	0.75	0.74
2	0.82	0.79	0.77	0.80	0.78	0.76	0.78	0.76	0.74	0.76	0.74	0.73	0.74	0.72	0.71	0.70
3	0.78	0.74	0.72	0.76	0.73	0.71	0.75	0.72	0.70	0.73	0.71	0.69	0.71	0.69	0.68	0.67
4	0.74	0.70	0.68	0.73	0.70	0.67	0.71	0.69	0.66	0.70	0.68	0.66	0.69	0.67	0.65	0.64
5	0.70	0.67	0.64	0.70	0.66	0.64	0.68	0.65	0.63	0.67	0.65	0.63	0.66	0.64	0.62	0.61
6	0.67	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.60	0.65	0.62	0.60	0.64	0.61	0.60	0.59
7	0.65	0.61	0.58	0.64	0.61	0.58	0.63	0.60	0.58	0.62	0.60	0.58	0.62	0.59	0.57	0.56
8	0.62	0.58	0.56	0.62	0.58	0.56	0.61	0.58	0.56	0.60	0.57	0.55	0.60	0.57	0.55	0.54
9	0.60	0.56	0.54	0.60	0.56	0.54	0.59	0.56	0.53	0.58	0.55	0.53	0.58	0.55	0.53	0.52
10	0.58	0.54	0.52	0.57	0.54	0.52	0.57	0.54	0.52	0.56	0.53	0.51	0.56	0.53	0.51	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	4364.44	4183.88	3651.75	2805.75	1758.94	907.31	295.88	74.53	50.74
45.0	4371.75	4138.88	3527.44	2648.25	1651.50	777.94	304.88	72.23	48.94
90.0	4345.31	4080.94	3434.63	2469.38	1542.38	705.94	195.58	68.01	46.41
135.0	4367.81	4190.63	3626.44	2827.13	1770.19	879.19	305.44	71.66	47.59
180.0	4364.44	4101.19	3488.06	2594.81	1604.81	751.67	240.69	65.42	44.83
225.0	4371.75	4188.38	3629.81	2767.50	1764.56	858.43	298.13	71.89	48.21
270.0	4345.31	4236.75	3716.44	2838.94	1887.19	966.38	323.44	78.02	50.29
315.0	4367.81	4073.63	3530.81	2576.25	1592.44	770.18	224.33	65.87	46.35
360.0	4364.44	4183.88	3651.75	2805.75	1758.94	907.31	295.88	74.53	50.74
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	35.33	25.43	18.79	15.19	12.54	10.97	9.79	8.72	7.99
45.0	33.81	24.47	18.39	14.79	12.43	11.03	9.79	8.89	7.93
90.0	32.40	24.02	17.89	14.51	12.21	10.86	9.73	8.78	7.99
135.0	34.03	24.92	18.62	15.24	12.77	11.25	9.96	9.00	8.16
180.0	32.18	23.74	17.83	14.57	12.32	10.86	9.68	8.78	8.10
225.0	33.75	25.09	18.73	15.02	12.66	11.14	9.96	9.23	8.33
270.0	35.16	25.93	19.13	15.24	12.83	11.25	10.07	9.11	8.38
315.0	32.63	23.79	18.17	14.68	12.38	10.86	9.68	8.72	8.04
360.0	35.33	25.43	18.79	15.19	12.54	10.97	9.79	8.72	7.99
C/ γ (°)	90.0								
0.0	7.20								
45.0	7.20								
90.0	7.26								
135.0	7.20								
180.0	7.26								
225.0	7.26								
270.0	7.31								
315.0	7.20								
360.0	7.20								