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Nata

LumCAT: 1-1062-N	
Luminaire: 92.70.246.00	
Report No: 210630-B016	Voltage(V): 36.9500
Test No: 210630-C016	Current(A): 0.3050
LampCAT: Fortimo LED SLM 1202 G7N	Power (W): 11.2690
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): 1224.22
Efficiency(%): 82.05%
Lumens(lm)/Power(W): 108.64
Central intensity(cd): 3056.906
Maximum intensity(cd): 3056.906
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=35.7
 [C90/270]Total=35.7
Field angle(10%Imax): [C0/180]Total=59.1
 [C90/270]Total=59.1
Maximum s/h(1/2): C0_180=0.59 C90_270=0.59
Maximum s/h(1/4): C0_180=0.59 C90_270=0.59
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 82.05%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.121%

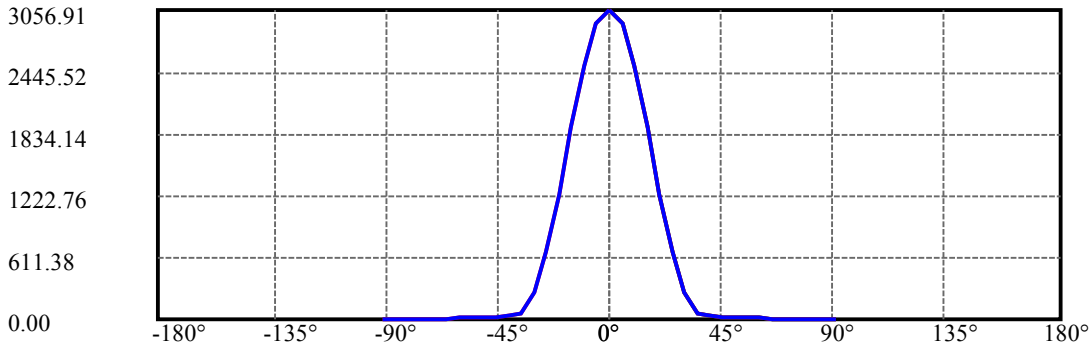
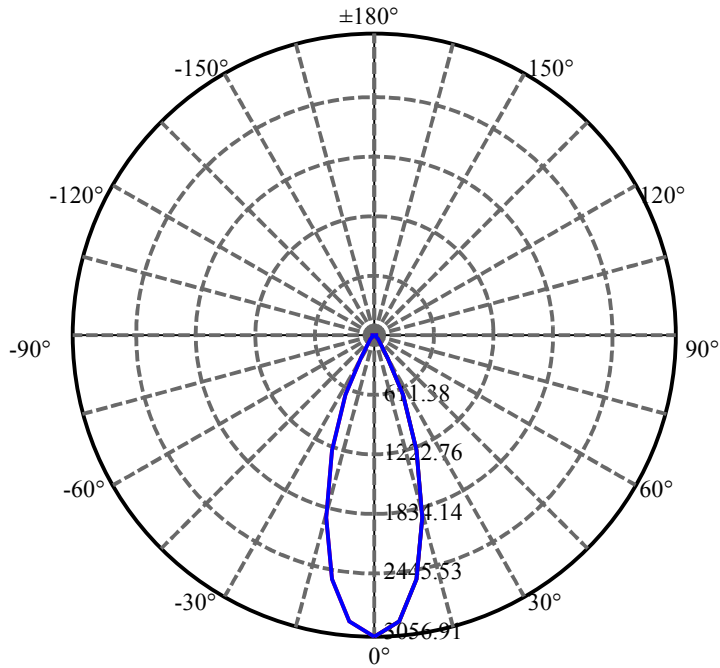
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3056.906	0.000	0	.000%	.000%
5.0	2914.594	71.388	71.388	4.785%	5.831%
10.0	2504.461	193.857	265.244	12.993%	21.666%
15.0	1907.930	261.740	526.984	17.542%	43.047%
20.0	1243.118	259.691	786.675	17.405%	64.259%
25.0	670.289	200.681	987.356	13.450%	80.652%
30.0	267.736	118.708	1106.064	7.956%	90.349%
35.0	55.005	47.526	1153.59	3.185%	94.231%
40.0	34.052	14.859	1168.448	.996%	95.444%
45.0	24.047	10.758	1179.206	.721%	96.323%
50.0	18.780	8.654	1187.86	.580%	97.030%
55.0	14.674	7.274	1195.134	.488%	97.624%
60.0	11.609	6.075	1201.209	.407%	98.120%
65.0	9.274	5.077	1206.286	.340%	98.535%
70.0	7.798	4.323	1210.609	.290%	98.888%
75.0	6.806	3.817	1214.426	.256%	99.200%
80.0	6.286	3.503	1217.929	.235%	99.486%
85.0	5.801	3.284	1221.213	.220%	99.755%
90.0	5.175	3.005	1224.218	.201%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1106.06	74.13%	90.35%
0-40	1168.45	78.31%	95.44%
0-60	1201.21	80.51%	98.12%
0-90	1221.21	81.85%	99.75%
0-120	1221.21	81.85%	99.75%
0-180	1224.22	82.05%	100.00%
60-90	26.08	1.75%	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%
0-24.80	979.37	65.64%	80.00%

ZONAL LUMEN SUMMARY

0-10	265.24
10-20	521.43
20-30	319.39
30-40	62.38
40-50	19.41
50-60	13.35
60-70	9.40
70-80	7.32
80-90	3.28
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: —————

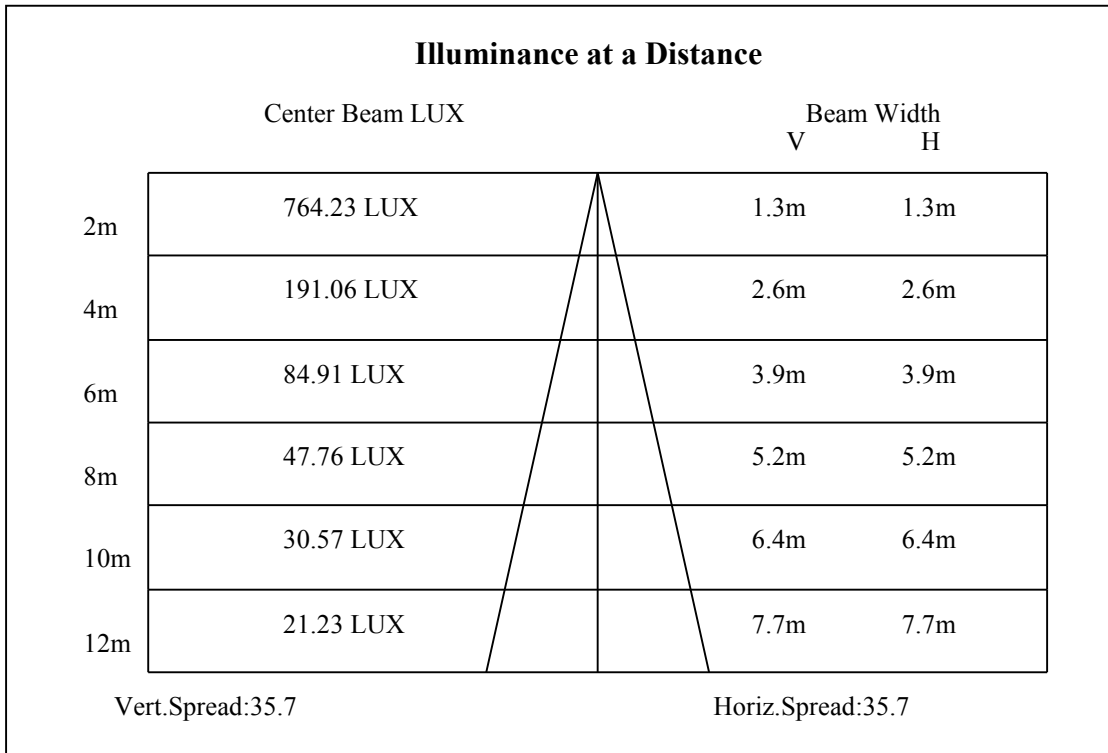
C90/C270: —————

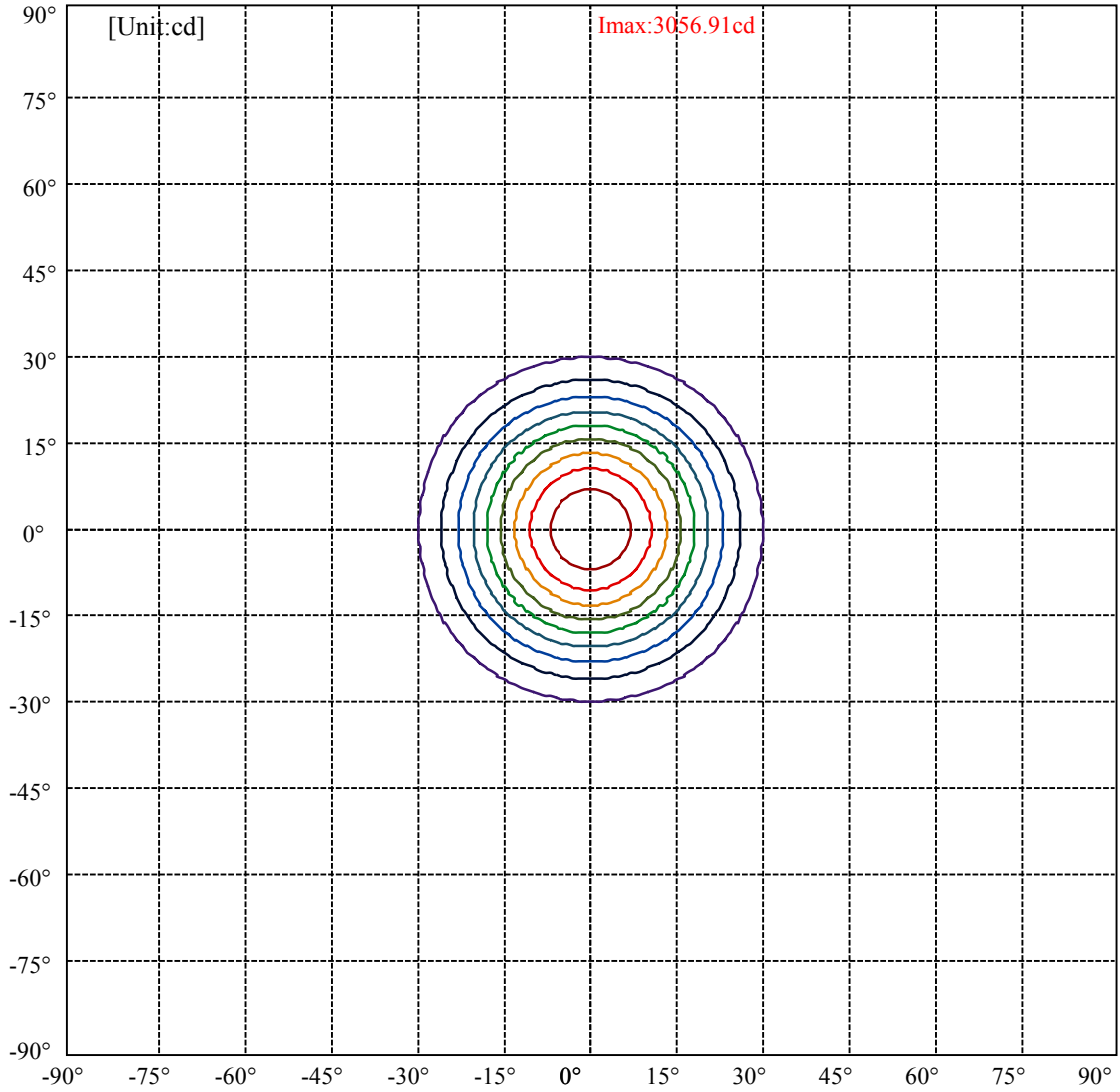
Field angle(10%Imax):C0/180Left:29.5 Right:29.5

:C90/270Left:29.5 Right:29.5

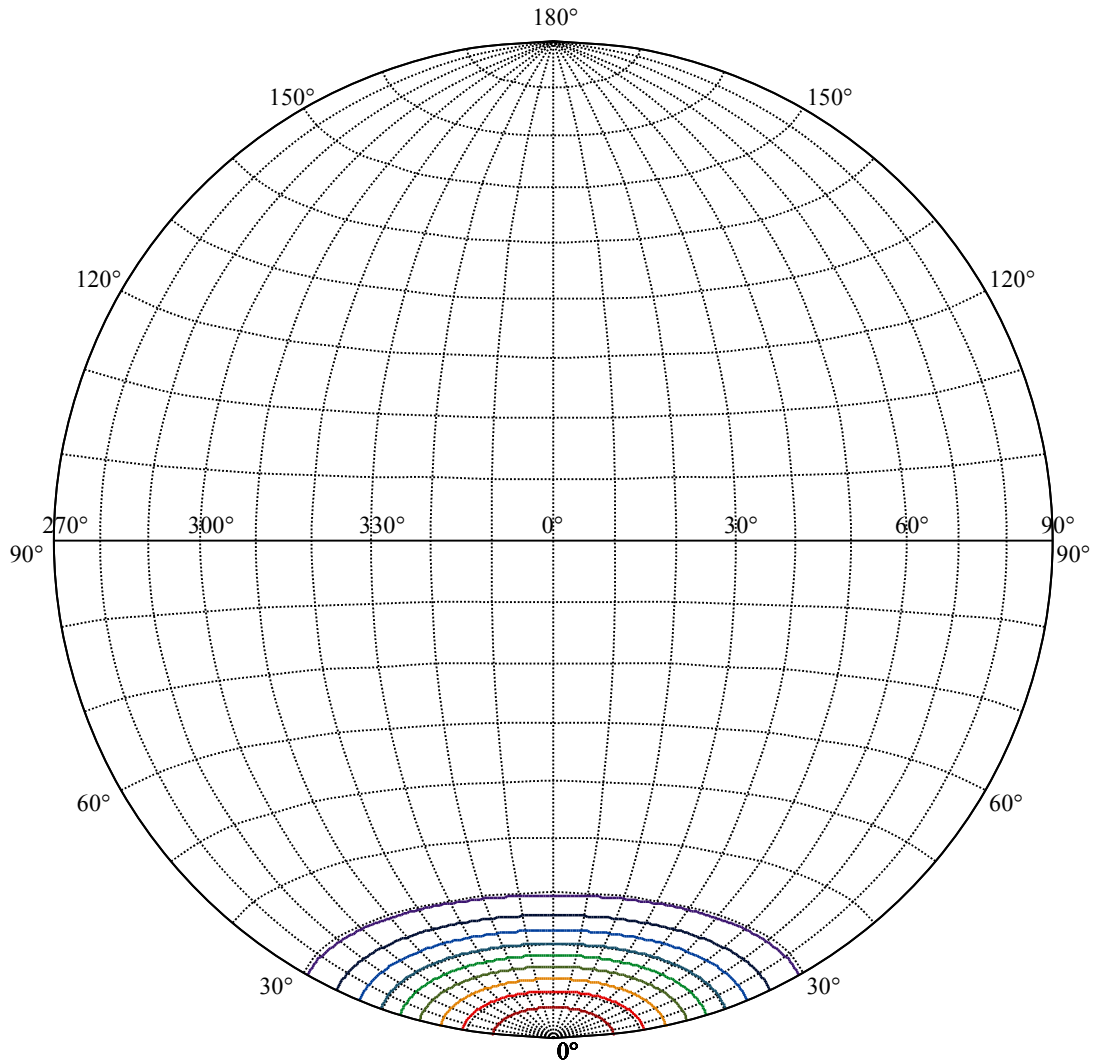
Beam Angle(50%Imax):C0/180Left:17.9 Right:17.9

:C90/270Left:17.9 Right:17.9





(10%Imax) 305.691	—
(20%Imax) 611.381	—
(30%Imax) 917.072	—
(40%Imax) 1222.76	—
(50%Imax) 1528.45	—
(60%Imax) 1834.14	—
(70%Imax) 2139.83	—
(80%Imax) 2445.52	—
(90%Imax) 2751.22	—



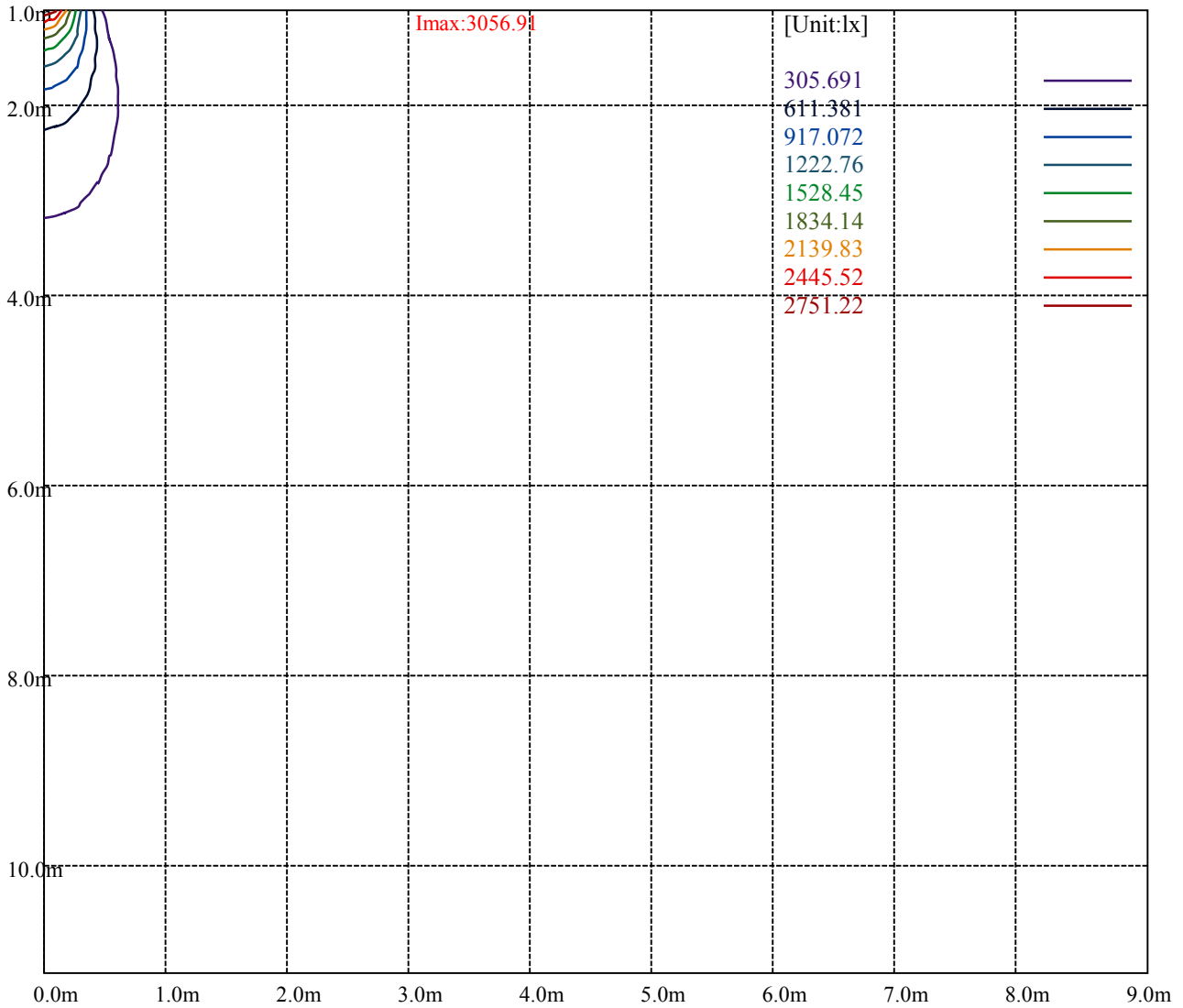
House

[Unit:cd]

Road

Imax:3056.91

(10%Imax) 305.691	—
(20%Imax) 611.381	—
(30%Imax) 917.072	—
(40%Imax) 1222.76	—
(50%Imax) 1528.45	—
(60%Imax) 1834.14	—
(70%Imax) 2139.83	—
(80%Imax) 2445.52	—
(90%Imax) 2751.22	—



Luminance Table

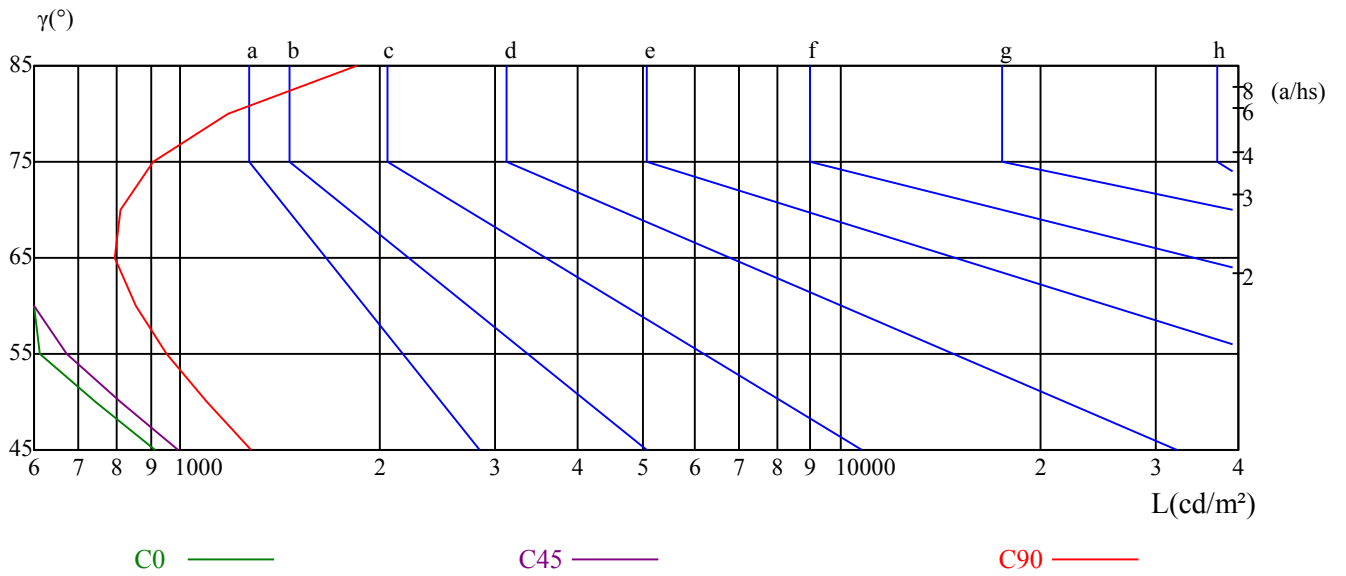
γ	45	50	55	60	65	70	75	80	85
C0	918	745	610	511	438	400	386	401	427
C45	990	811	672	570	495	460	453	483	532
C90	1281	1093	950	853	796	811	907	1177	1852

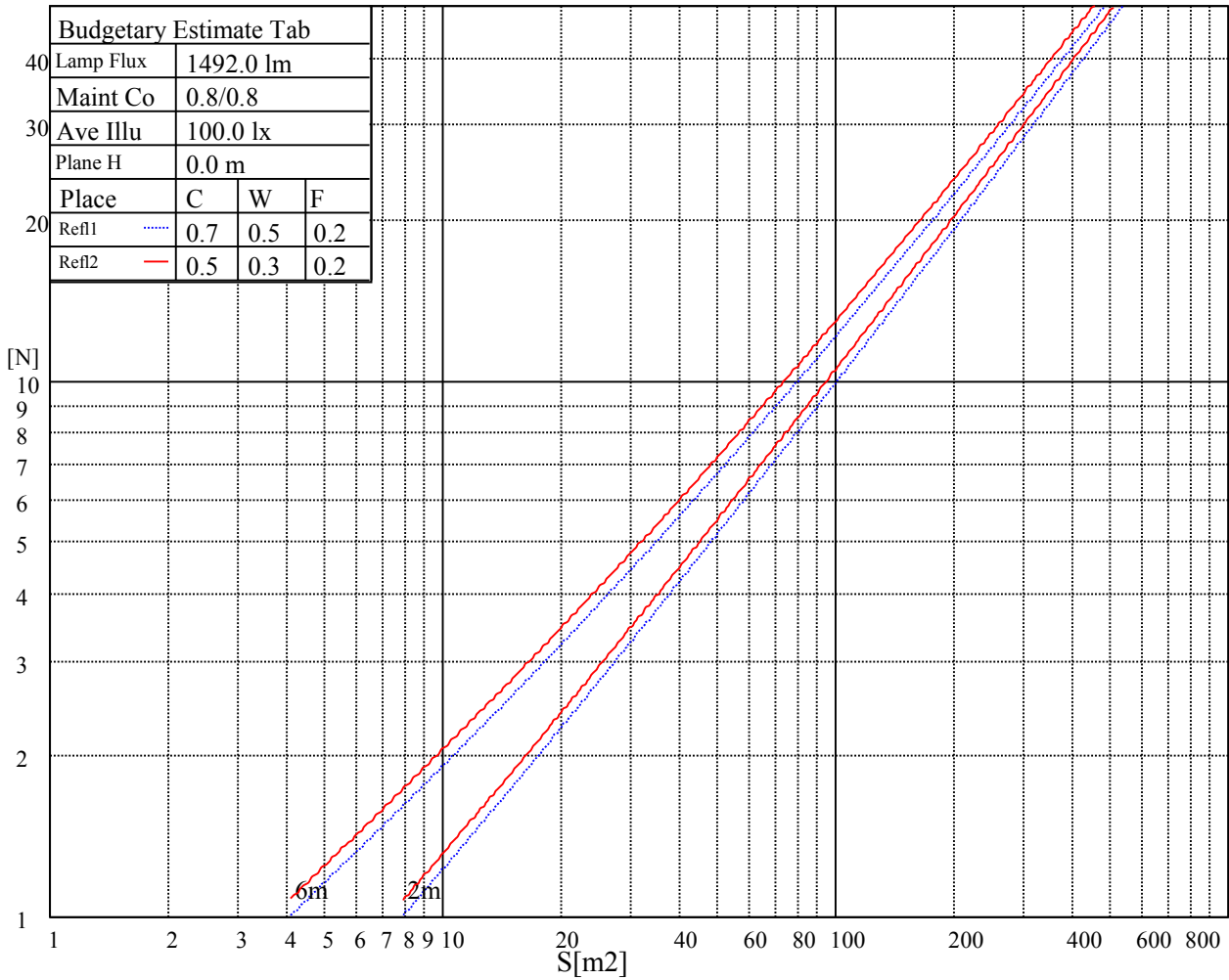
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
856	856	856	1025	1025	1025	2595	2595	2595

Glare Table

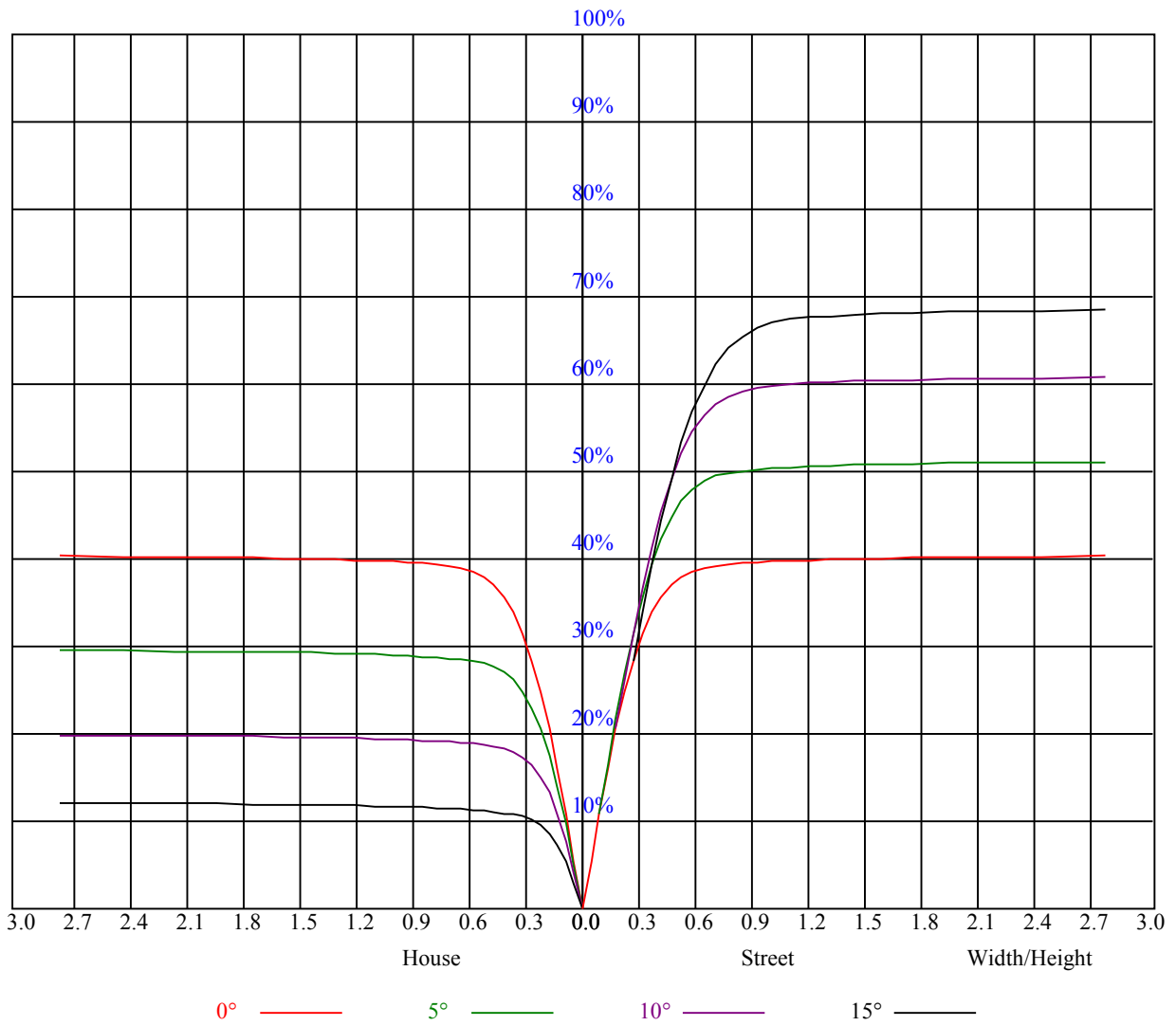
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.98	0.98	0.98	0.95	0.95	0.95	0.91	0.91	0.91	0.87	0.87	0.87	0.84	0.84	0.84	0.82
1	0.92	0.90	0.88	0.90	0.88	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.81	0.80	0.79	0.78
2	0.86	0.83	0.81	0.85	0.82	0.80	0.82	0.80	0.78	0.80	0.78	0.77	0.78	0.76	0.75	0.74
3	0.82	0.78	0.75	0.81	0.77	0.75	0.79	0.76	0.74	0.77	0.74	0.73	0.75	0.73	0.71	0.70
4	0.78	0.74	0.71	0.77	0.73	0.71	0.75	0.72	0.70	0.74	0.71	0.69	0.72	0.70	0.68	0.67
5	0.74	0.70	0.67	0.73	0.70	0.67	0.72	0.69	0.66	0.71	0.68	0.66	0.70	0.67	0.65	0.64
6	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.63	0.68	0.65	0.63	0.67	0.64	0.62	0.61
7	0.68	0.64	0.61	0.67	0.64	0.61	0.66	0.63	0.61	0.66	0.62	0.60	0.65	0.62	0.60	0.59
8	0.65	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.58	0.63	0.60	0.58	0.62	0.60	0.58	0.57
9	0.63	0.59	0.56	0.62	0.59	0.56	0.62	0.58	0.56	0.61	0.58	0.56	0.60	0.57	0.55	0.54
10	0.60	0.56	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	0.52



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	3057.75	2917.69	2512.69	1926.56	1264.50	661.50	284.06	54.23	34.65
45.0	3059.44	2858.06	2394.56	1761.19	1144.69	568.69	300.94	49.39	31.89
90.0	3051.00	2805.75	2313.00	1682.44	1062.06	506.87	155.14	43.09	29.31
135.0	3059.44	2920.50	2529.56	1959.19	1300.50	699.19	297.00	55.46	33.64
180.0	3057.75	2914.31	2507.63	1902.38	1099.52	675.06	238.56	50.46	33.19
225.0	3059.44	2984.06	2614.50	2034.56	1422.56	776.42	309.43	63.00	36.68
270.0	3051.00	3003.75	2673.00	2139.19	1531.13	842.06	349.88	71.27	38.64
315.0	3059.44	2912.63	2490.75	1857.94	1119.99	632.53	206.89	53.16	34.43
360.0	3057.75	2917.69	2512.69	1926.56	1264.50	661.50	284.06	54.23	34.65
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	24.75	18.96	14.79	11.76	9.28	7.76	6.69	6.08	5.51
45.0	22.67	18.11	13.89	10.97	8.83	7.54	6.58	5.96	5.46
90.0	21.49	17.44	13.67	10.91	8.94	7.59	6.86	7.09	5.46
135.0	23.63	18.73	14.63	11.64	9.45	7.82	6.75	6.08	5.51
180.0	23.57	18.34	14.57	11.48	9.17	7.59	6.69	6.02	5.57
225.0	25.37	19.63	15.30	12.04	9.51	7.99	6.92	6.19	5.79
270.0	26.61	20.08	15.81	12.54	9.84	8.33	7.20	6.75	7.43
315.0	24.30	18.96	14.74	11.53	9.17	7.76	6.75	6.13	5.68
360.0	24.75	18.96	14.79	11.76	9.28	7.76	6.69	6.08	5.51
C/γ(°)	90.0								
0.0	5.12								
45.0	5.12								
90.0	5.18								
135.0	5.12								
180.0	5.12								
225.0	5.23								
270.0	5.29								
315.0	5.23								
360.0	5.12								