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Nata

LumCAT: 1-0920-M	
Luminaire: 92.70.124.00	
Report No: 210715-B005	Voltage(V): 36.5800
Test No: 210715-C005	Current(A): 0.3050
LampCAT: Fortimo LED SLM 1202 G7N	Power (W): 11.1560
Lamp flux(lm): 1428.3	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): 1100.83
Efficiency(%): 77.07%
Lumens(lm)/Power(W): 98.68
Central intensity(cd): 3268.125
Maximum intensity(cd): 3268.125
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=51.9
 [C90/270]Total=51.9
Maximum s/h(1/2): C0_180=0.59 C90_270=0.59
Maximum s/h(1/4): C0_180=0.55 C90_270=0.55
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 77.07%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.589%

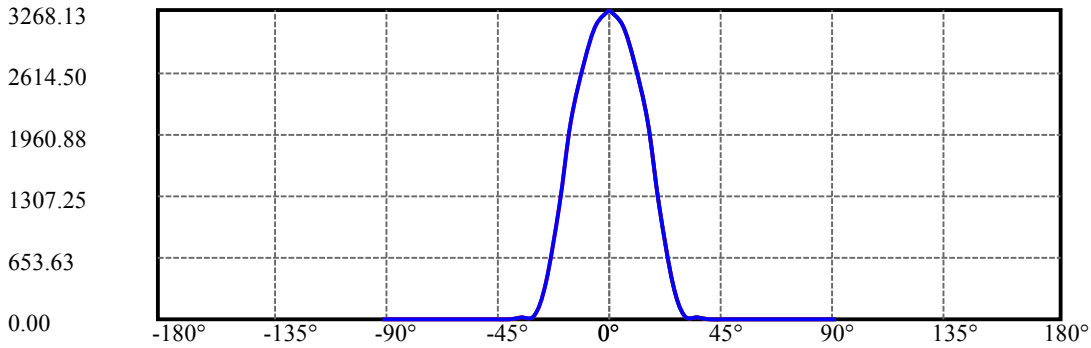
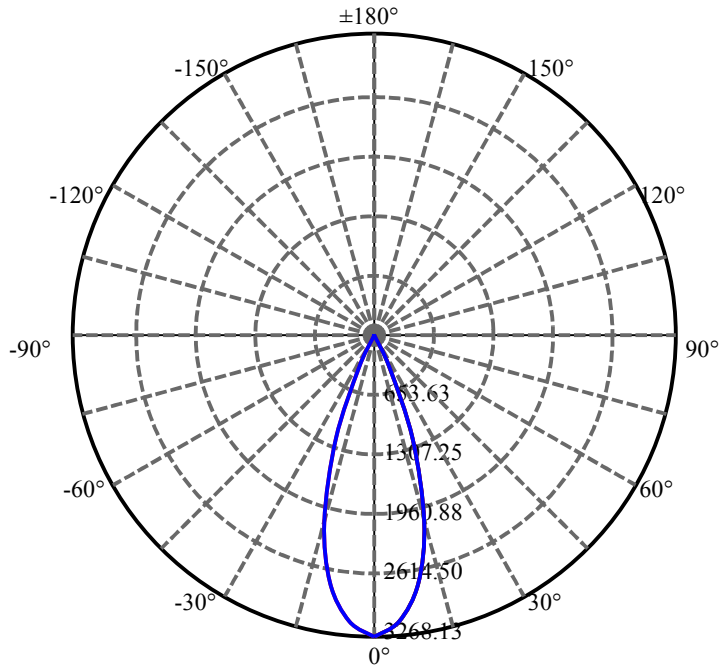
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3268.125	0.000	0	.000%	.000%
5.0	3111.961	76.272	76.272	5.340%	6.929%
10.0	2718.281	208.566	284.838	14.602%	25.875%
15.0	2082.375	284.772	569.61	19.938%	51.744%
20.0	1206.281	271.031	840.641	18.976%	76.364%
25.0	392.182	167.649	1008.291	11.738%	91.594%
30.0	44.156	55.219	1063.51	3.866%	96.610%
35.0	11.869	8.250	1071.76	.578%	97.359%
40.0	8.044	3.322	1075.082	.233%	97.661%
45.0	6.638	2.718	1077.8	.190%	97.908%
50.0	5.913	2.536	1080.336	.178%	98.139%
55.0	5.491	2.480	1082.816	.174%	98.364%
60.0	5.210	2.474	1085.29	.173%	98.589%
65.0	5.063	2.497	1087.787	.175%	98.815%
70.0	4.978	2.542	1090.329	.178%	99.046%
75.0	4.908	2.584	1092.914	.181%	99.281%
80.0	4.894	2.623	1095.536	.184%	99.519%
85.0	4.838	2.644	1098.18	.185%	99.760%
90.0	4.830	2.647	1100.828	.185%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1063.51	74.46%	96.61%
0-40	1075.08	75.27%	97.66%
0-60	1085.29	75.98%	98.59%
0-90	1098.18	76.89%	99.76%
0-120	1098.18	76.89%	99.76%
0-180	1100.83	77.07%	100.00%
60-90	15.36	1.08%	1.40%
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%
0-21.19	880.66	61.66%	80.00%

ZONAL LUMEN SUMMARY

0-10	284.84
10-20	555.80
20-30	222.87
30-40	11.57
40-50	5.25
50-60	4.95
60-70	5.04
70-80	5.21
80-90	2.64
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: —————

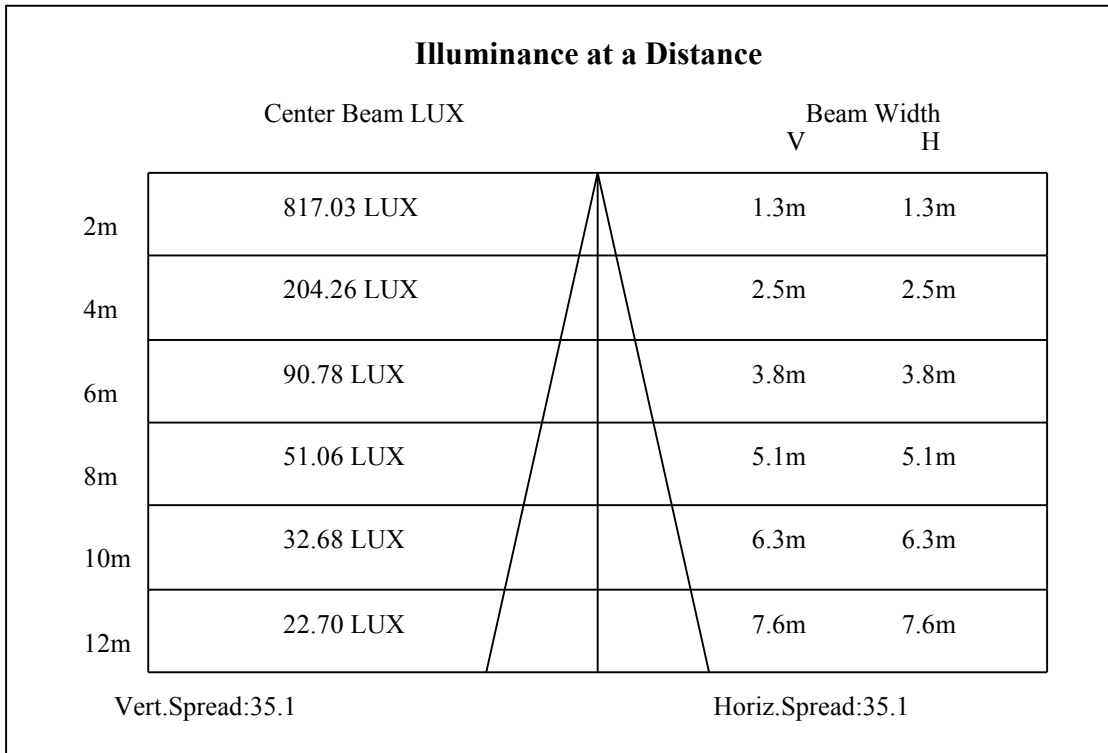
C90/C270: —————

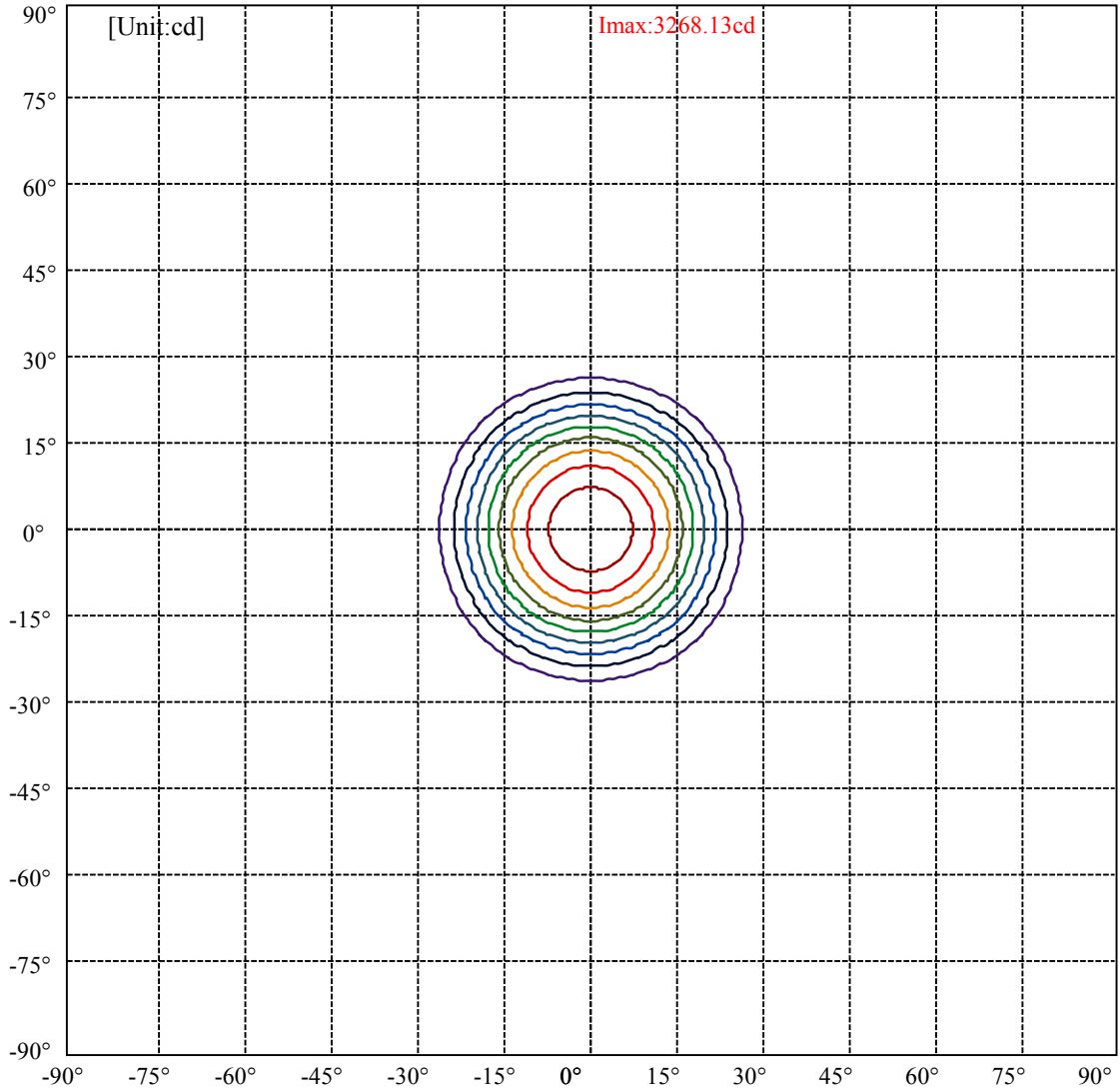
Field angle(10%Imax):C0/180Left:25.9 Right:25.9

:C90/270Left:25.9 Right:25.9

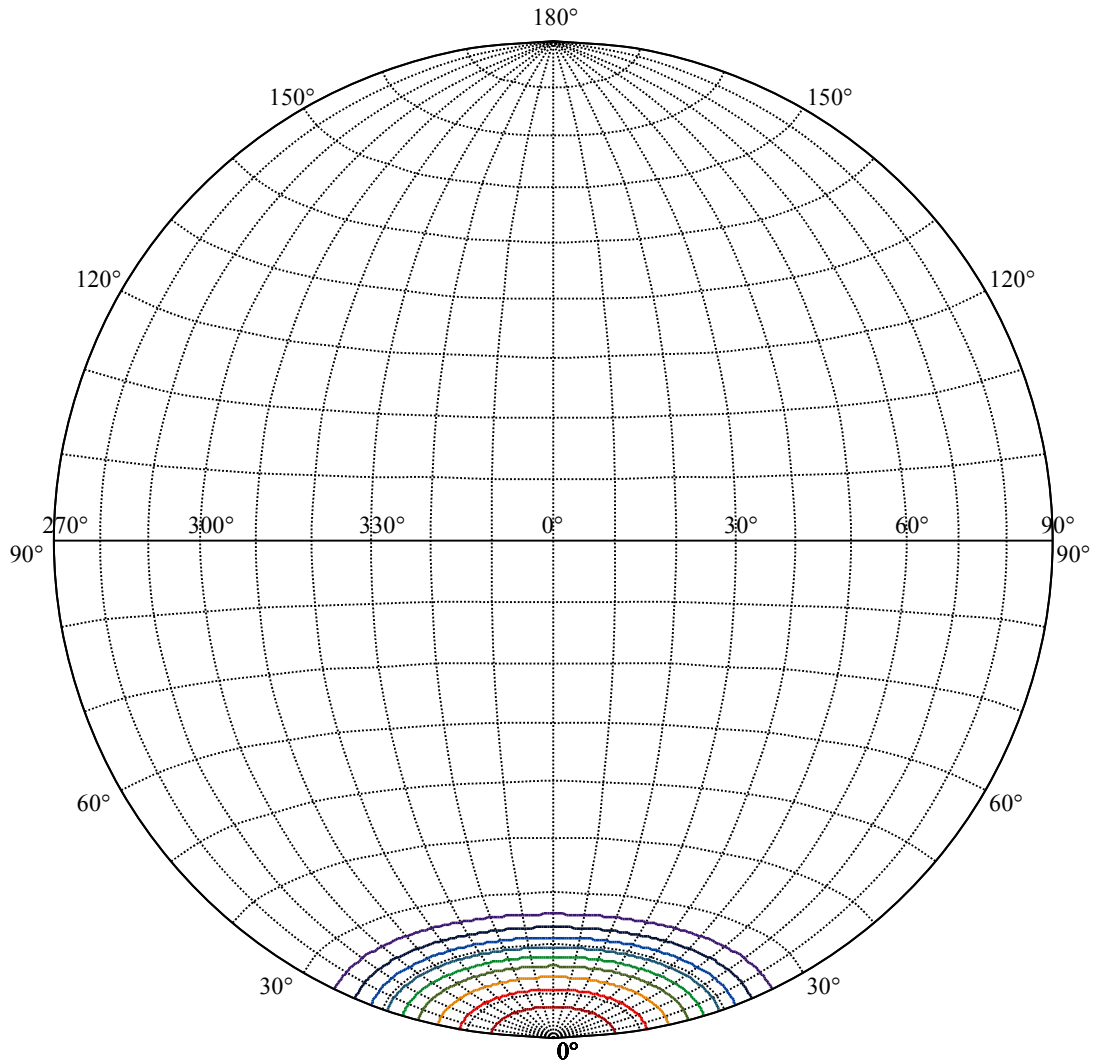
Beam Angle(50%Imax):C0/180Left:17.6 Right:17.6

:C90/270Left:17.6 Right:17.6





(10%I _{max}) 326.813	—
(20%I _{max}) 653.625	—
(30%I _{max}) 980.438	—
(40%I _{max}) 1307.25	—
(50%I _{max}) 1634.06	—
(60%I _{max}) 1960.88	—
(70%I _{max}) 2287.69	—
(80%I _{max}) 2614.5	—
(90%I _{max}) 2941.31	—



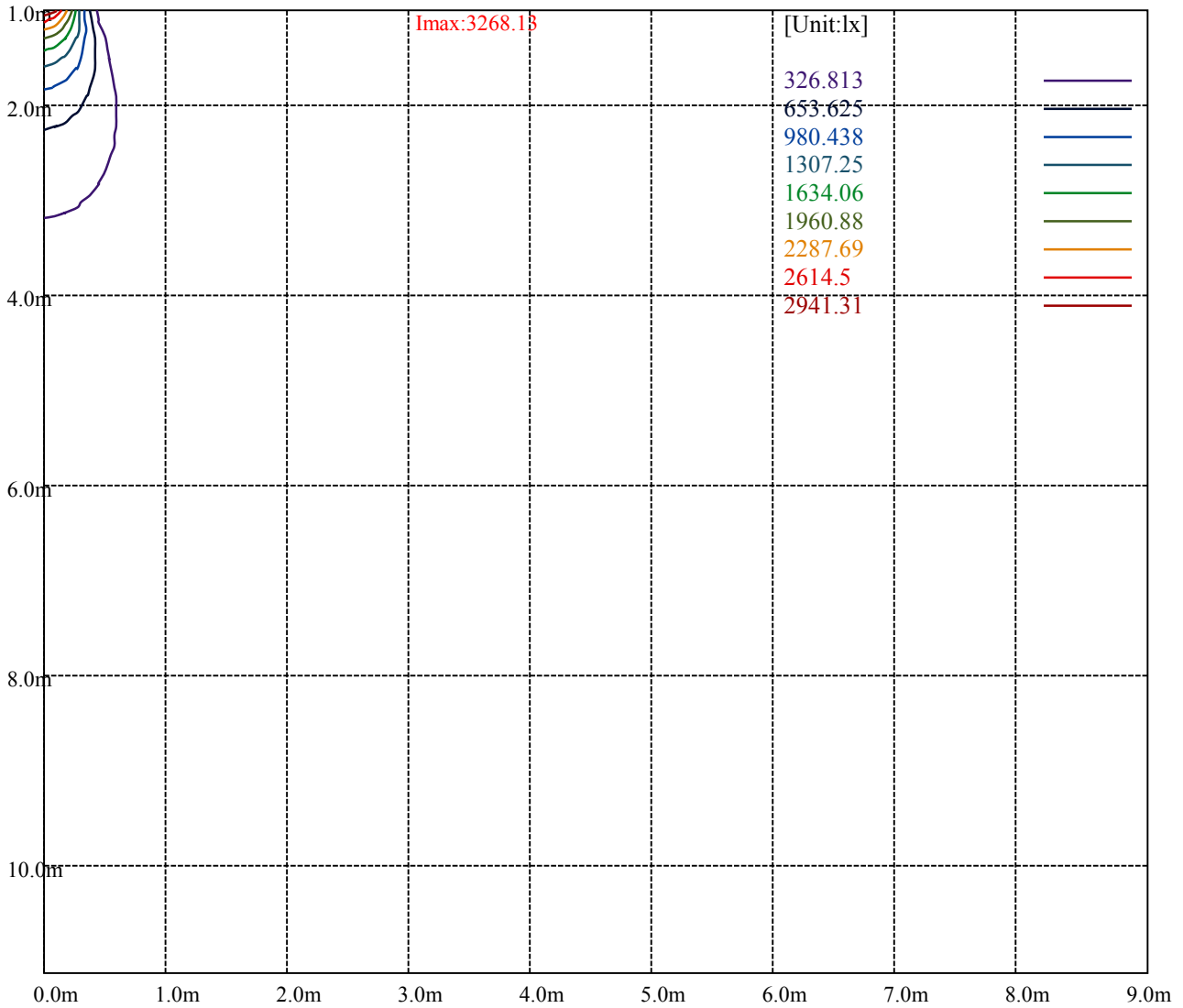
House

[Unit:cd]

Road

Imax:3268.13

(10%Imax)	326.813	—
(20%Imax)	653.625	—
(30%Imax)	980.438	—
(40%Imax)	1307.25	—
(50%Imax)	1634.06	—
(60%Imax)	1960.88	—
(70%Imax)	2287.69	—
(80%Imax)	2614.5	—
(90%Imax)	2941.31	—



Luminance Table

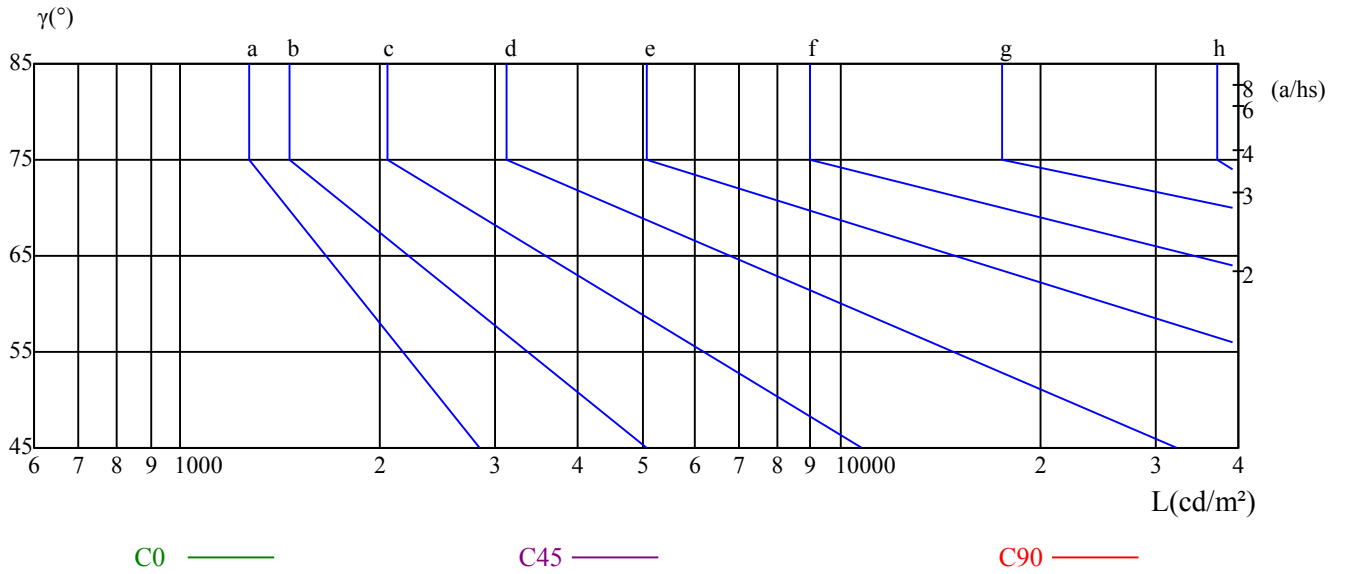
γ	45	50	55	60	65	70	75	80	85
C0	253	234	228	230	239	255	278	312	356
C45	273	255	251	256	270	294	326	376	444
C90	354	344	355	383	434	518	654	916	1544

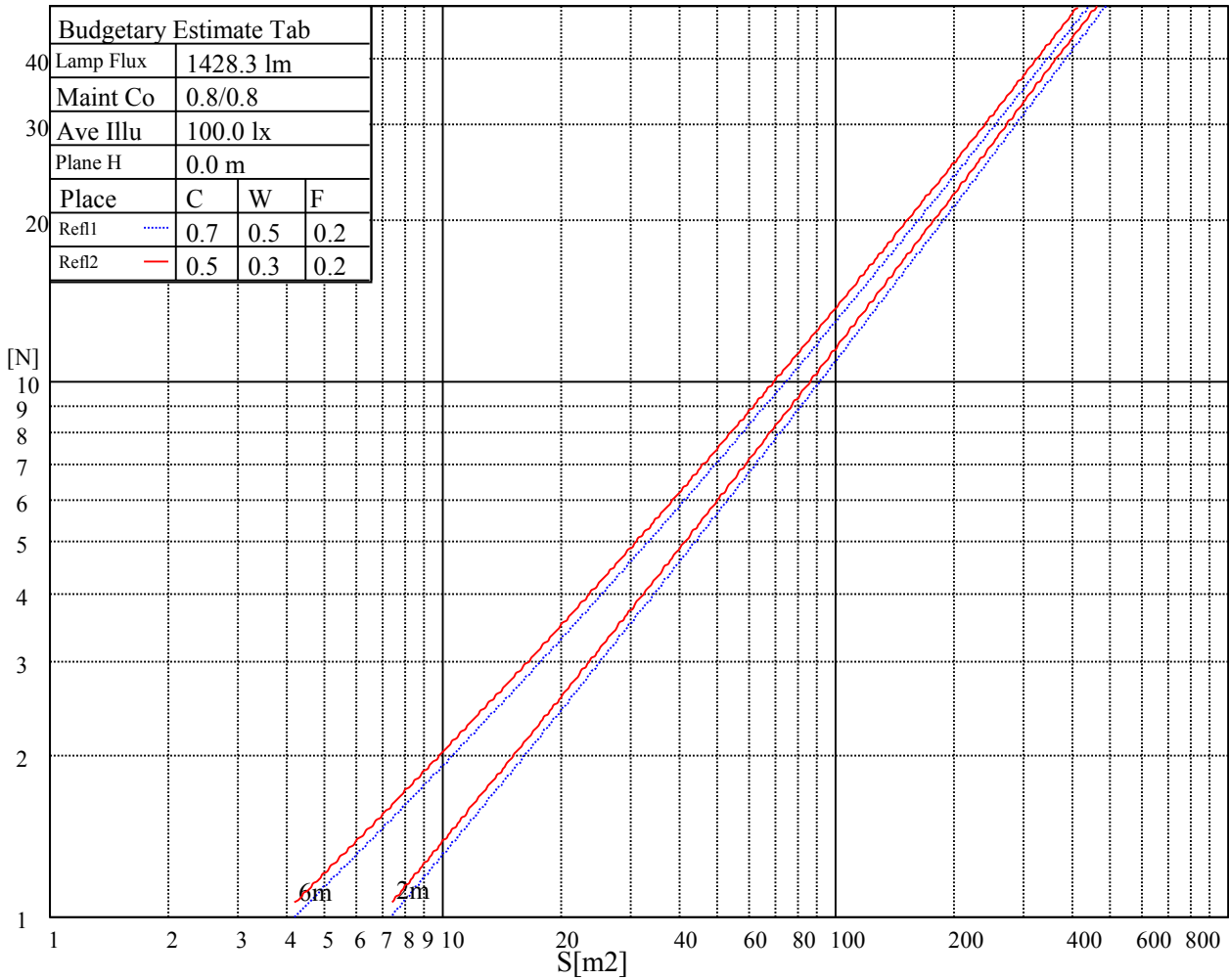
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
467	467	467	739	739	739	2164	2164	2164

Glare Table

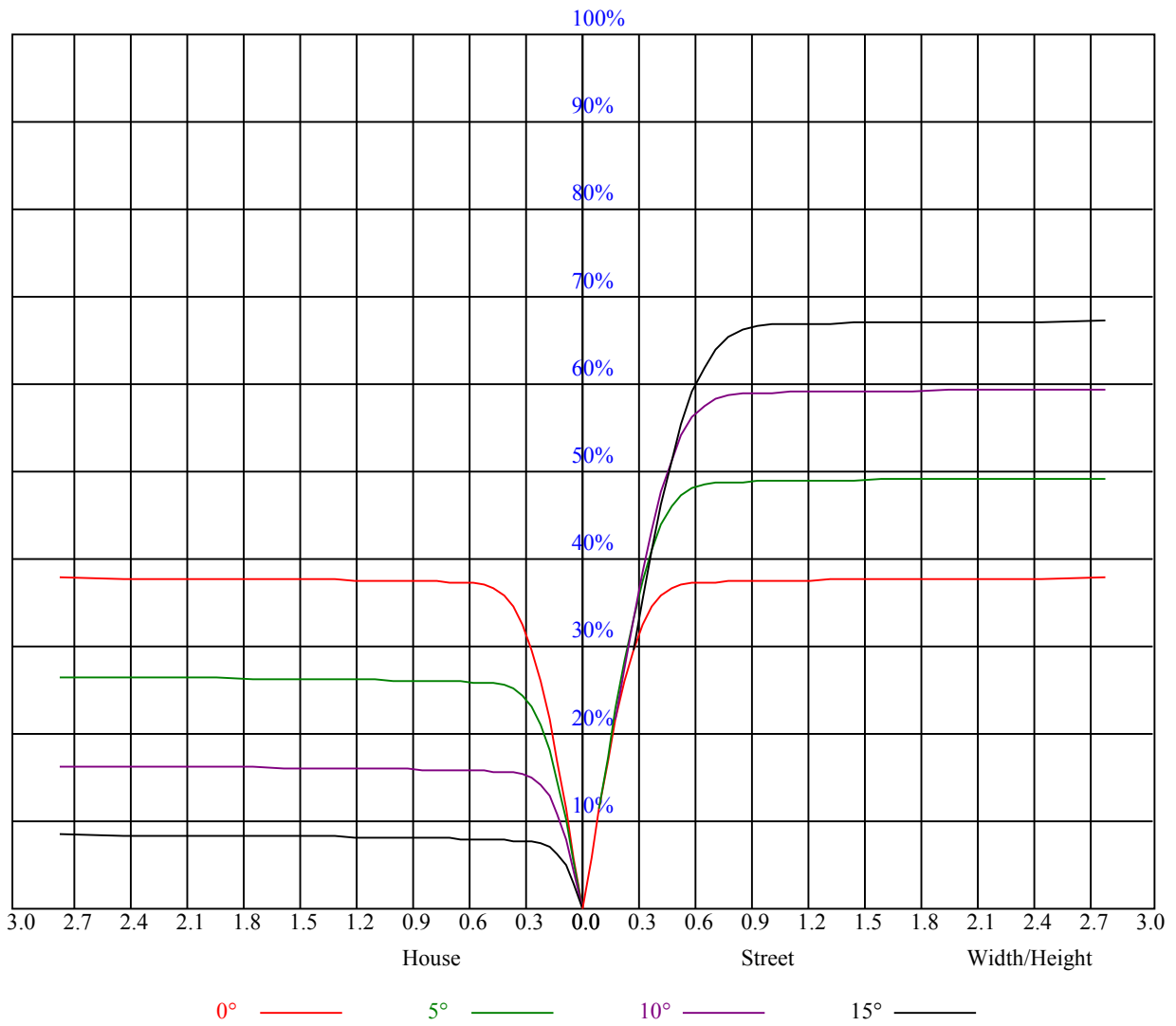
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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



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	3258.00	3201.19	2868.19	2368.69	1539.56	603.00	77.51	15.69	8.83
45.0	3270.38	3144.38	2807.44	2161.69	1329.75	436.50	51.41	12.26	8.16
90.0	3268.13	3031.88	2585.25	1911.94	1043.94	248.23	28.74	10.24	7.54
135.0	3276.00	3080.81	2664.56	1971.56	1158.19	313.88	30.21	10.58	7.76
180.0	3258.00	3016.13	2545.31	1814.06	972.51	209.31	22.61	9.45	7.54
225.0	3270.38	3087.56	2674.69	2000.81	1075.73	319.78	32.18	10.80	7.76
270.0	3268.13	3183.75	2829.38	2279.25	1422.00	551.81	61.20	13.22	8.49
315.0	3276.00	3150.00	2771.44	2151.00	1108.58	454.95	49.39	12.71	8.27
360.0	3258.00	3201.19	2868.19	2368.69	1539.56	603.00	77.51	15.69	8.83
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	6.92	6.08	5.63	5.29	5.12	5.06	4.95	4.95	4.89
45.0	6.69	5.91	5.46	5.18	5.01	4.95	4.84	4.84	4.78
90.0	6.47	5.79	5.40	5.12	5.01	4.89	4.89	4.89	4.78
135.0	6.58	5.91	5.51	5.23	5.12	4.95	4.95	4.89	4.84
180.0	6.47	5.85	5.46	5.23	5.12	5.06	5.01	4.95	4.89
225.0	6.53	5.85	5.46	5.18	5.01	4.95	4.84	4.84	4.84
270.0	6.81	6.02	5.57	5.23	5.06	5.01	4.89	4.89	4.84
315.0	6.64	5.91	5.46	5.23	5.06	4.95	4.89	4.89	4.84
360.0	6.92	6.08	5.63	5.29	5.12	5.06	4.95	4.95	4.89
C/ γ (°)	90.0								
0.0	4.89								
45.0	4.78								
90.0	4.78								
135.0	4.84								
180.0	4.89								
225.0	4.84								
270.0	4.78								
315.0	4.84								
360.0	4.89								