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Nata

LumCAT: 3-1700-N
Luminaire: 92.70.065.00+92.70.089.00
Report No: NATA0100
Test No: GC20180712008
LampCAT: BRIDGELUX V9 HD
Lamp flux(lm): 1191.0
Number of Lamps: 1
Length(mm): 77
Phm Type: C

Voltage(V): 34.1000
Current(A): 0.3000
Power (W): 10.2300
PF: 0.0000
Ballast type: DC
Width(mm): 77
Height(mm): 0

Photometric Results

Lumens(lm): 925.05
Efficiency(%): 77.67%
Lumens(lm)/Power(W): 90.43
Central intensity(cd): 1990.564
Maximum intensity(cd): 1990.564
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=36.8
 [C90/270]Total=36.8
Field angle(10%Imax): [C0/180]Total=64.2
 [C90/270]Total=64.2
Maximum s/h(1/2): C0_180=0.62 C90_270=0.62
Maximum s/h(1/4): C0_180=0.58 C90_270=0.58
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 78.60%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 96.856%

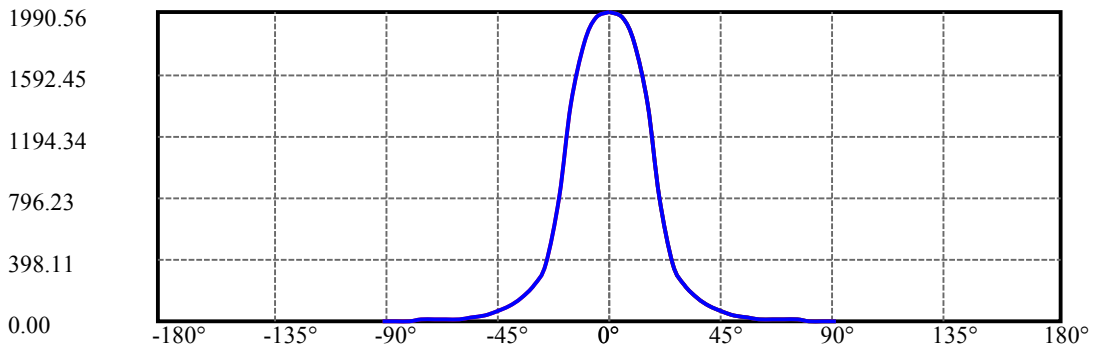
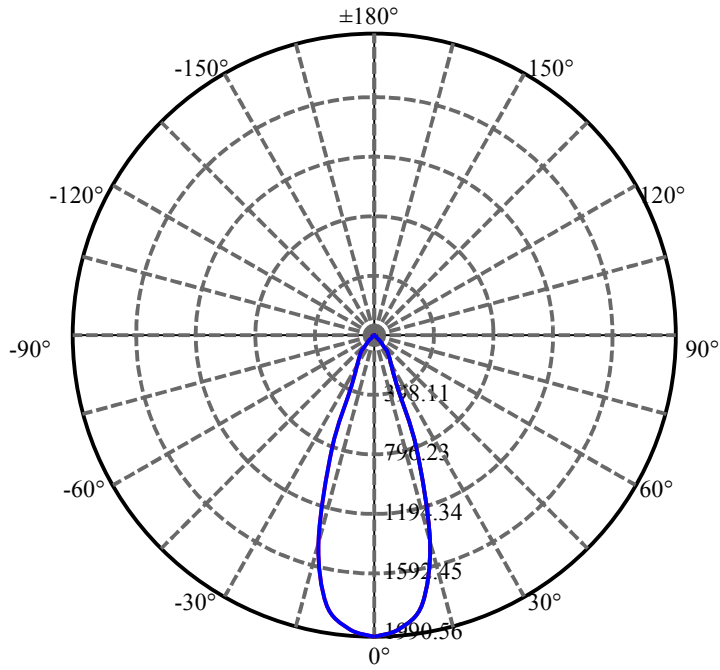
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1990.564	11.904	11.904	.999%	1.287%
5.0	1950.992	93.205	105.109	7.826%	11.363%
10.0	1796.628	171.009	276.118	14.358%	29.849%
15.0	1401.426	198.818	474.936	16.693%	51.342%
20.0	800.899	150.148	625.084	12.607%	67.573%
25.0	370.812	85.900	710.983	7.212%	76.859%
30.0	239.179	65.551	776.535	5.504%	83.945%
35.0	144.413	45.403	821.938	3.812%	88.853%
40.0	94.119	33.161	855.099	2.784%	92.438%
45.0	57.396	22.246	877.346	1.868%	94.843%
50.0	34.727	14.582	891.927	1.224%	96.419%
55.0	20.034	8.995	900.923	.755%	97.392%
60.0	12.057	5.724	906.646	.481%	98.011%
65.0	9.071	4.506	911.152	.378%	98.498%
70.0	7.618	3.924	915.077	.329%	98.922%
75.0	6.455	3.418	918.494	.287%	99.291%
80.0	5.485	2.961	921.455	.249%	99.611%
85.0	4.577	2.499	923.954	.210%	99.882%
90.0	3.998	1.096	925.05	.092%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	776.53	65.20%	83.95%
0-40	855.10	71.80%	92.44%
0-60	906.65	76.12%	98.01%
0-90	923.95	77.58%	99.88%
0-120	923.95	77.58%	99.88%
0-180	925.05	77.67%	100.00%
60-90	23.03	1.93%	2.49%
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%
0-27.22	740.04	62.14%	80.00%

ZONAL LUMEN SUMMARY

0-10	276.12
10-20	348.97
20-30	151.45
30-40	78.56
40-50	36.83
50-60	14.72
60-70	8.43
70-80	6.38
80-90	2.50
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



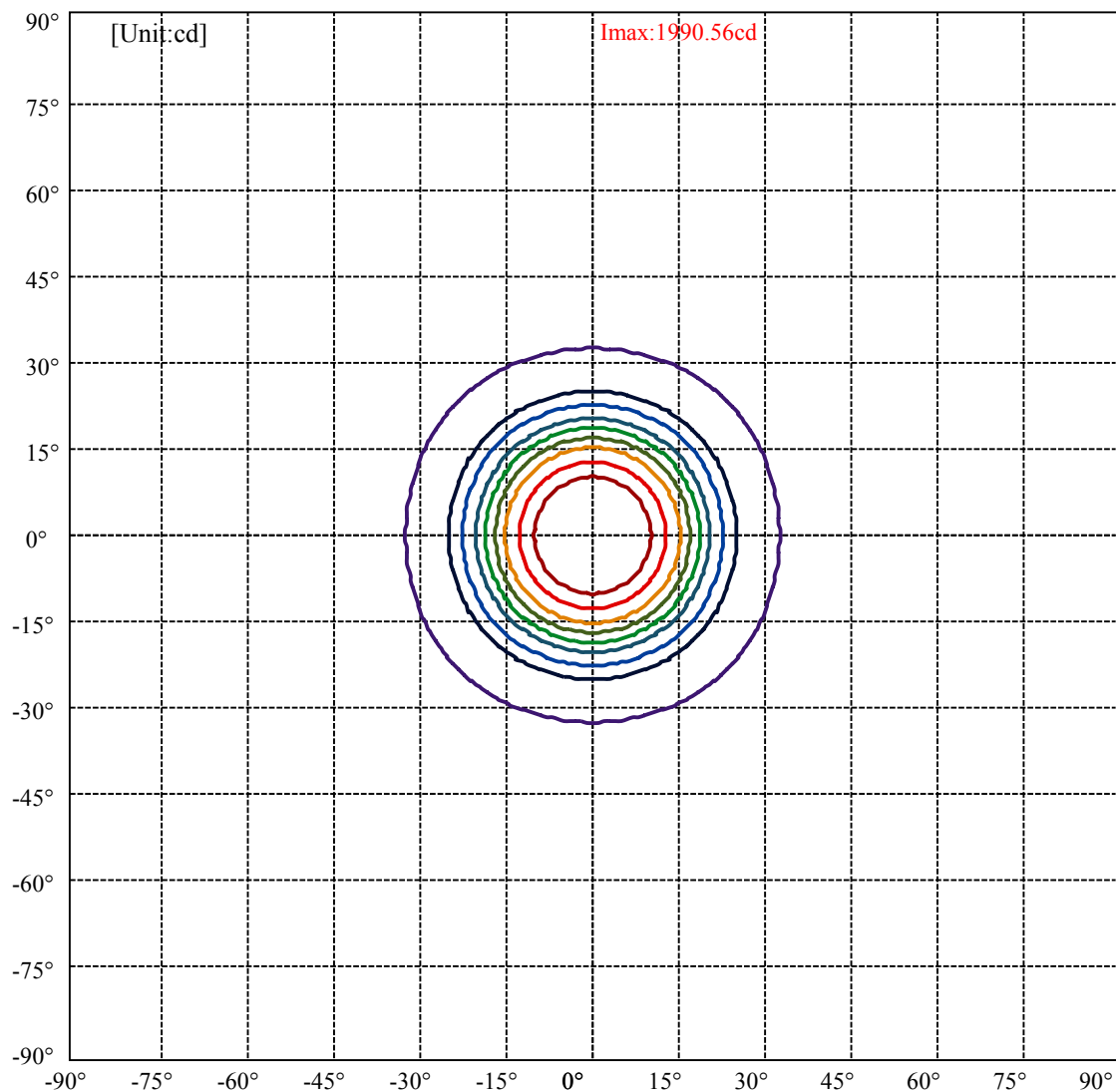
C0(Max): —————

C0/C180: —————

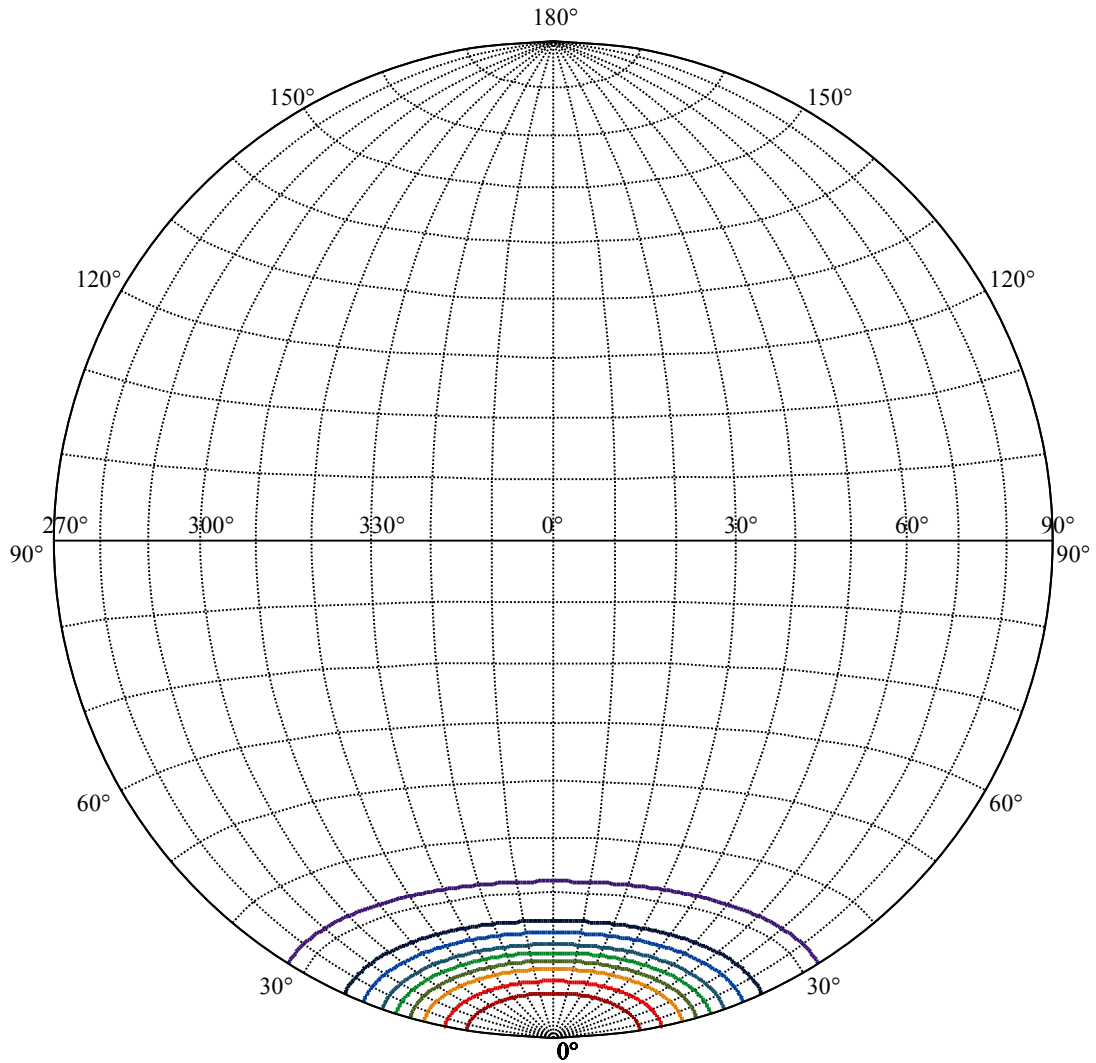
C90/C270: —————

Field angle(10%Imax):C0/180Left:32.1 Right:32.1
:C90/270Left:32.1 Right:32.1

Beam Angle(50%Imax):C0/180Left:18.4 Right:18.4
:C90/270Left:18.4 Right:18.4



(10%Imax) 199.056	—
(20%Imax) 398.113	—
(30%Imax) 597.169	—
(40%Imax) 796.226	—
(50%Imax) 995.282	—
(60%Imax) 1194.34	—
(70%Imax) 1393.39	—
(80%Imax) 1592.45	—
(90%Imax) 1791.51	—



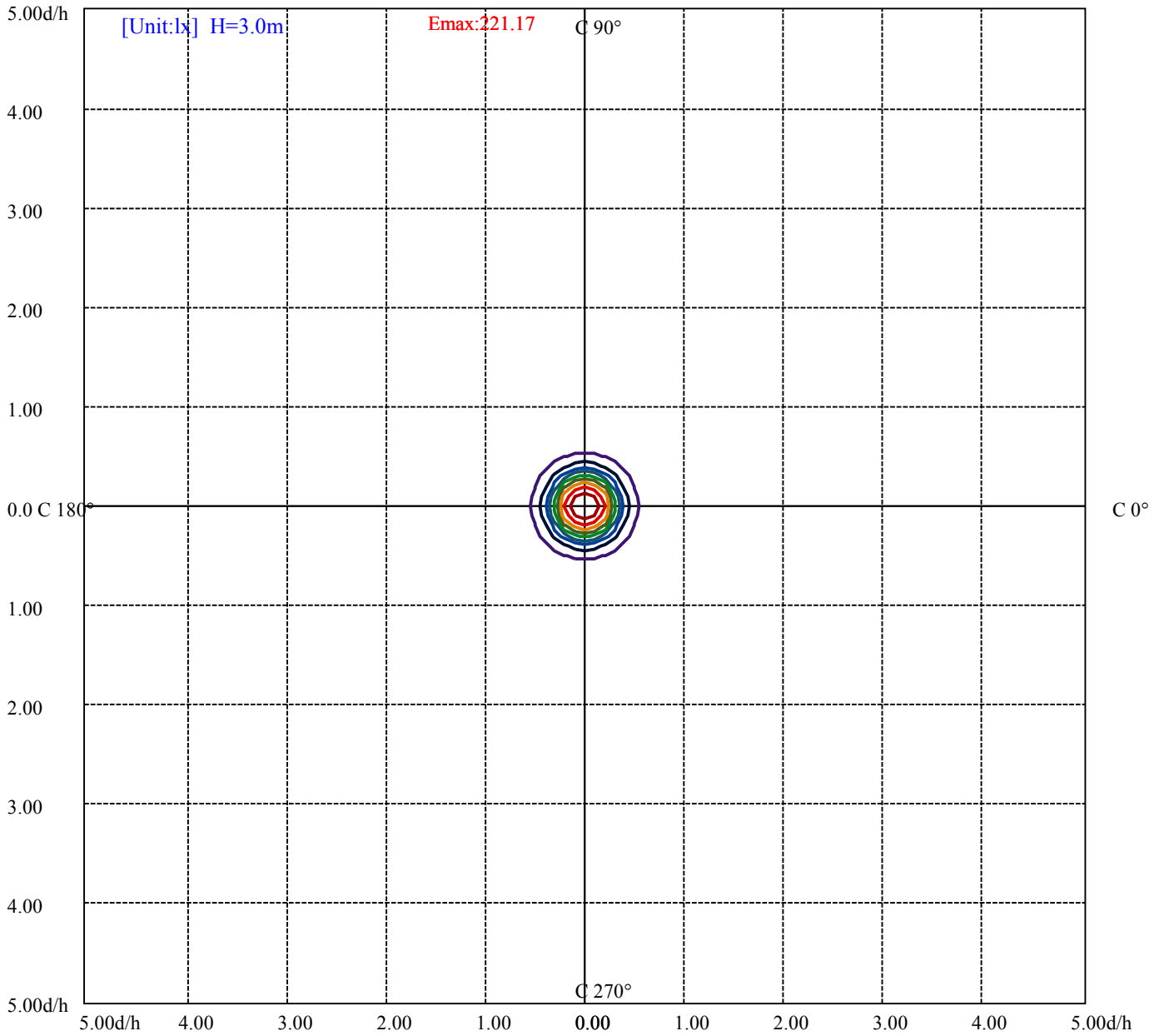
House

[Unit:cd]

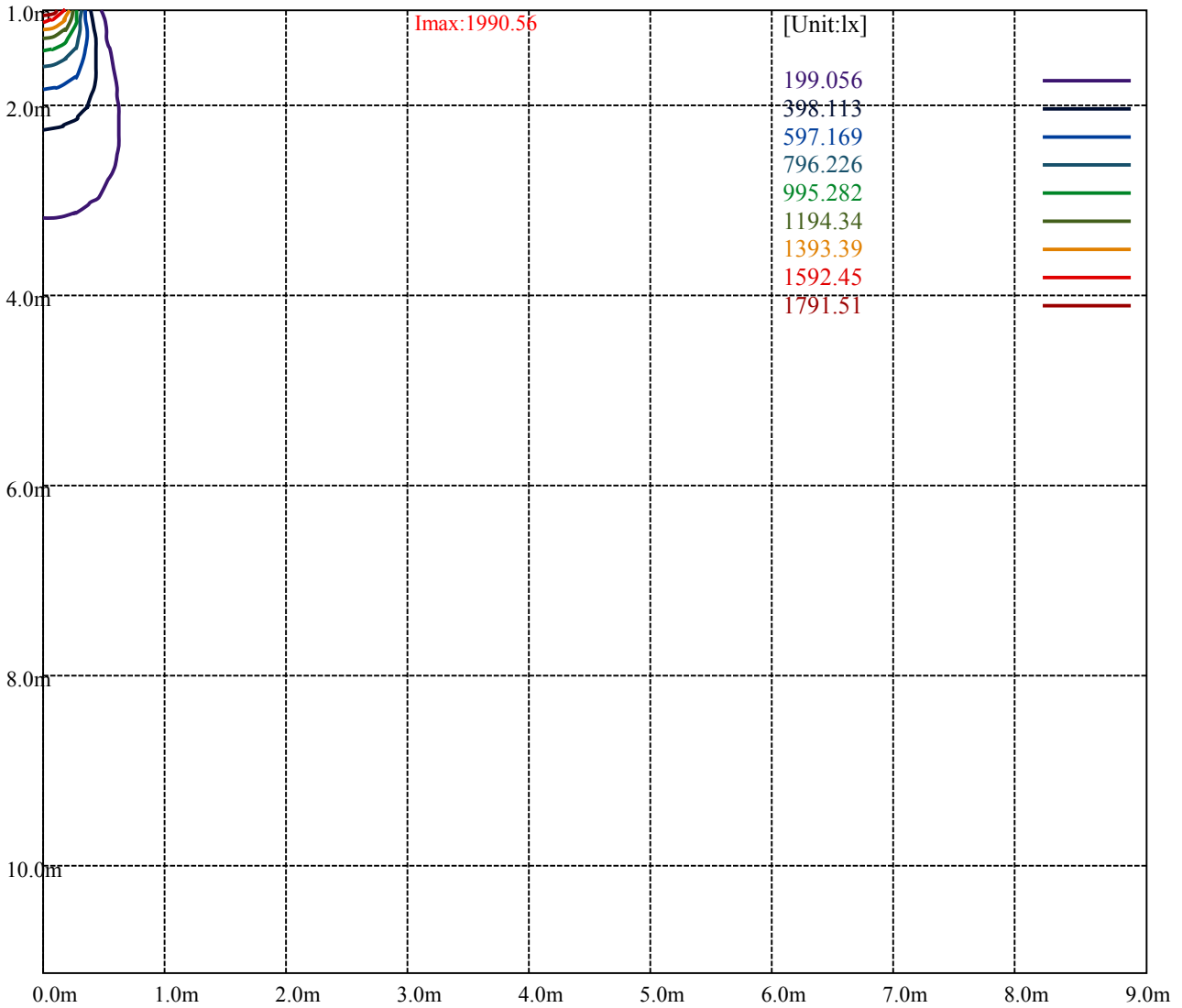
Road

I_{max}:1990.56

(10%I _{max})	199.056	—
(20%I _{max})	398.113	—
(30%I _{max})	597.169	—
(40%I _{max})	796.226	—
(50%I _{max})	995.282	—
(60%I _{max})	1194.34	—
(70%I _{max})	1393.39	—
(80%I _{max})	1592.45	—
(90%I _{max})	1791.51	—



- (10%Emax) 22.11733
- (20%Emax) 44.23478
- (30%Emax) 66.35211
- (40%Emax) 88.46944
- (50%Emax) 110.5868
- (60%Emax) 132.7044
- (70%Emax) 154.8211
- (80%Emax) 176.9389
- (90%Emax) 199.0567



Luminance Table

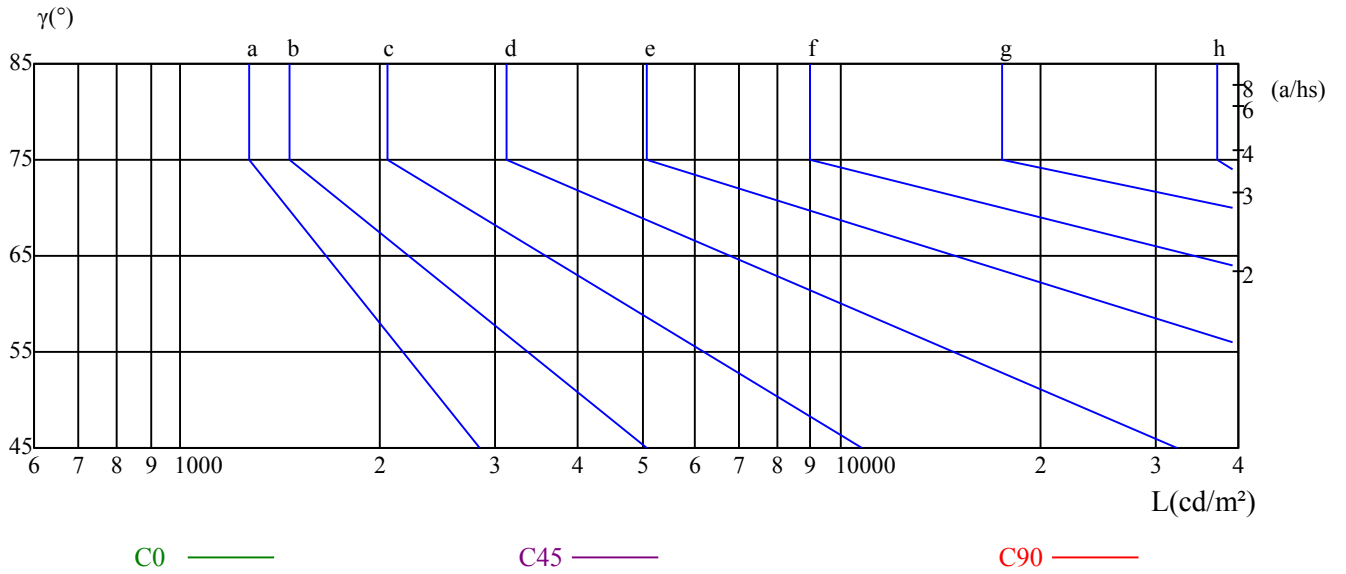
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

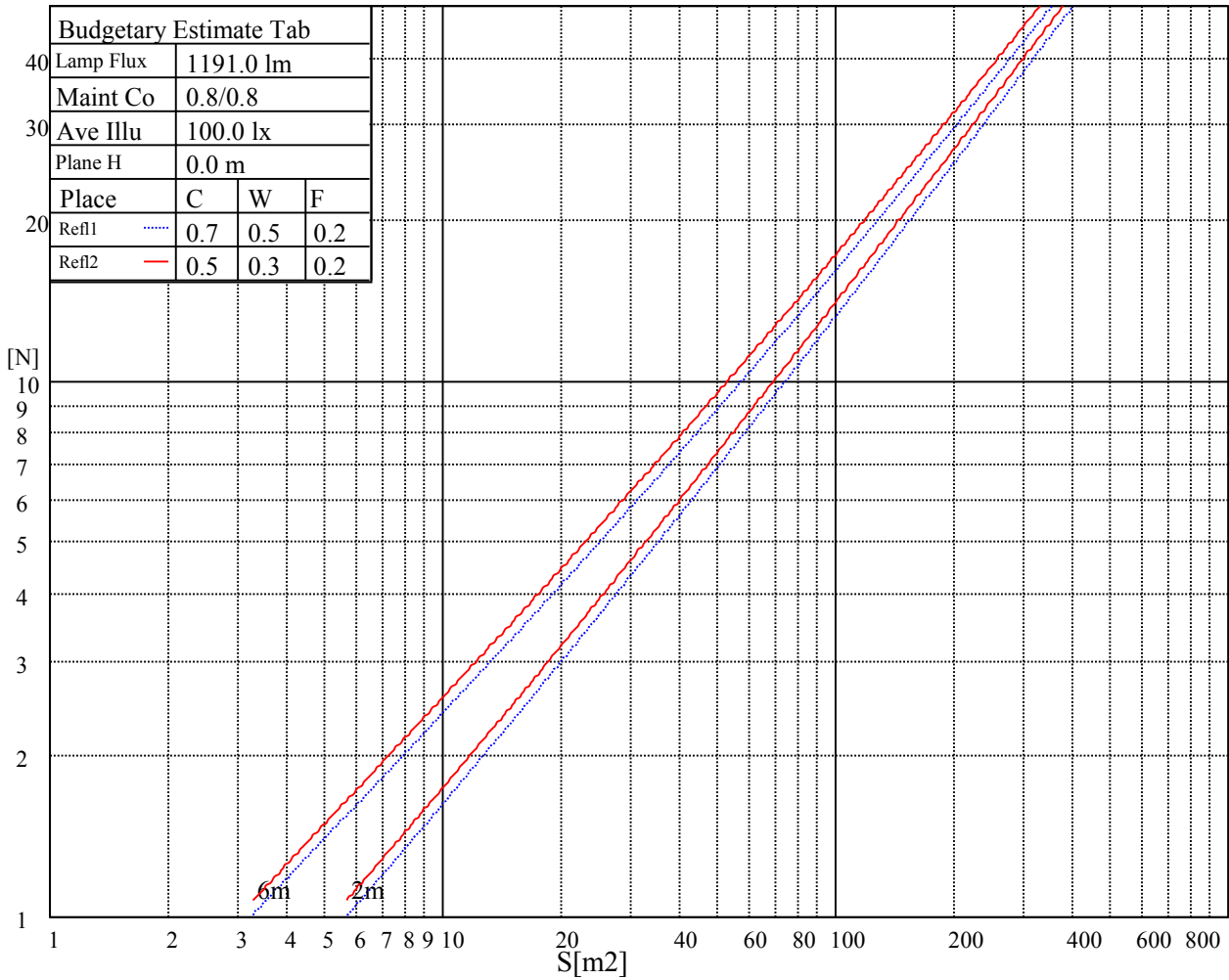
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

Glare Table

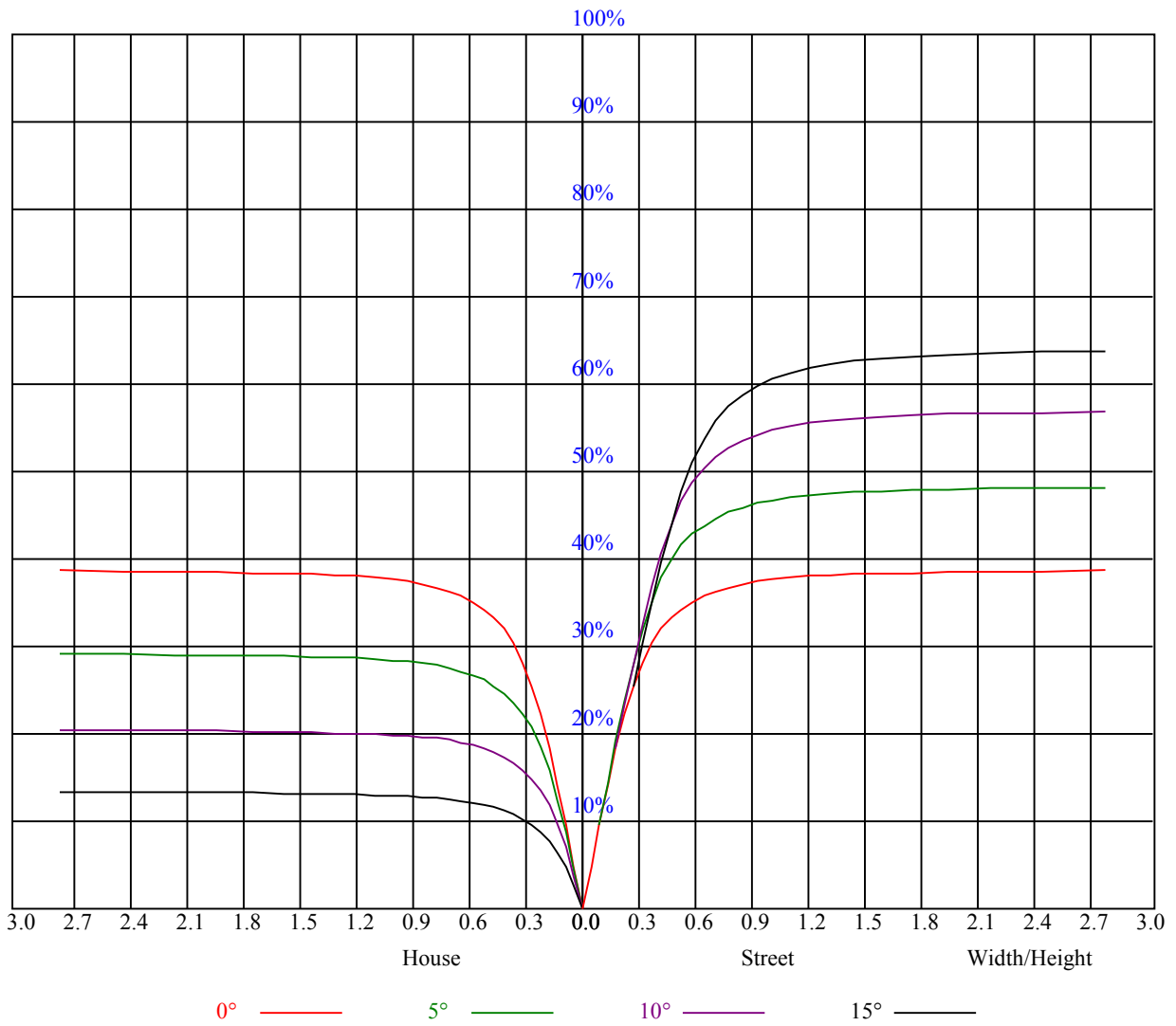
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.94	0.94	0.94	0.91	0.91	0.91	0.87	0.87	0.87	0.84	0.84	0.84	0.80	0.80	0.80	0.79
1	0.86	0.84	0.83	0.85	0.83	0.81	0.82	0.80	0.79	0.79	0.77	0.76	0.76	0.75	0.74	0.73
2	0.81	0.78	0.76	0.80	0.77	0.75	0.78	0.75	0.73	0.75	0.73	0.72	0.73	0.72	0.70	0.69
3	0.77	0.74	0.71	0.76	0.73	0.70	0.74	0.71	0.69	0.72	0.70	0.68	0.70	0.69	0.67	0.66
4	0.73	0.69	0.67	0.72	0.69	0.66	0.71	0.68	0.65	0.69	0.67	0.65	0.68	0.66	0.64	0.63
5	0.70	0.66	0.63	0.69	0.66	0.63	0.68	0.65	0.62	0.67	0.64	0.62	0.66	0.63	0.61	0.60
6	0.67	0.63	0.60	0.66	0.63	0.60	0.65	0.62	0.60	0.64	0.61	0.59	0.63	0.61	0.59	0.58
7	0.64	0.60	0.58	0.64	0.60	0.57	0.63	0.60	0.57	0.62	0.59	0.57	0.61	0.59	0.57	0.56
8	0.62	0.58	0.55	0.61	0.58	0.55	0.61	0.57	0.55	0.60	0.57	0.55	0.59	0.56	0.54	0.54
9	0.60	0.56	0.53	0.59	0.56	0.53	0.59	0.55	0.53	0.58	0.55	0.53	0.57	0.55	0.53	0.52
10	0.58	0.54	0.51	0.57	0.54	0.51	0.57	0.53	0.51	0.56	0.53	0.51	0.56	0.53	0.51	0.50



Nata 3-1700-N

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	1989.74	1971.02	1825.12	1449.64	808.78	380.99	250.29	143.53	94.20
45.0	1991.39	1952.85	1778.32	1353.29	723.99	336.95	210.70	133.07	85.39
90.0	1989.19	1918.72	1698.49	1097.00	617.07	309.86	196.77	120.35	81.15
135.0	1991.94	1945.69	1821.27	1440.28	803.27	368.88	279.69	145.29	95.58
180.0	1989.74	1938.54	1770.06	1405.59	760.82	355.33	228.87	144.41	93.49
225.0	1991.39	1953.95	1825.67	1489.83	908.05	399.82	239.05	158.45	102.13
270.0	1989.19	1966.61	1842.19	1556.44	1008.08	443.75	278.03	165.83	107.14
315.0	1991.94	1960.56	1811.91	1419.35	777.12	370.91	230.03	144.36	93.87
360.0	1989.74	1971.02	1825.12	1449.64	808.78	380.99	250.29	143.53	94.20
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	57.70	34.58	20.70	12.28	9.08	7.71	6.44	5.51	4.51
45.0	51.04	32.48	18.06	11.07	8.70	7.38	6.22	5.29	4.40
90.0	48.95	29.29	17.23	10.79	8.59	7.32	6.22	5.29	4.40
135.0	58.08	34.69	19.77	12.00	9.08	7.60	6.55	5.51	4.62
180.0	56.27	34.36	19.38	11.62	9.03	7.60	6.39	5.45	4.62
225.0	61.55	37.44	21.47	12.66	9.25	7.76	6.61	5.56	4.73
270.0	67.99	41.02	23.89	13.98	9.80	8.04	6.83	5.84	4.73
315.0	57.59	33.97	19.77	12.06	9.03	7.54	6.39	5.45	4.57
360.0	57.70	34.58	20.70	12.28	9.08	7.71	6.44	5.51	4.51
C/ γ (°)	90.0								
0.0	3.96								
45.0	3.96								
90.0	4.02								
135.0	4.02								
180.0	3.96								
225.0	4.02								
270.0	4.02								
315.0	4.02								
360.0	3.96								