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Nata

LumCAT: 3-1944-M
Luminaire: BJB 47.319.2141
Report No: GC2017041506
Test No: NT-0010
LampCAT: BRIDGELUX V18B
Lamp flux(lm): 3874.0
Number of Lamps: 1
Length(mm): 86
Phm Type: C

Voltage(V): 35.0000
Current(A): 0.8000
Power (W): 28.0000
PF: 0.0000
Ballast type: DC
Width(mm): 86
Height(mm): 0

Photometric Results

Lumens(lm): 3467.79
Efficiency(%): 89.51%
Lumens(lm)/Power(W): 123.85
Central intensity(cd): 6959.542
Maximum intensity(cd): 6959.542
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=40.0
 [C90/270]Total=40.0
Field angle(10%Imax): [C0/180]Total=68.2
 [C90/270]Total=68.2
Maximum s/h(1/2): C0_180=0.67 C90_270=0.67
Maximum s/h(1/4): C0_180=0.62 C90_270=0.62
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 89.51%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.715%

Equipment: gms1980
Temperature(°C): 25.0

Date: 2017/4/15
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.42

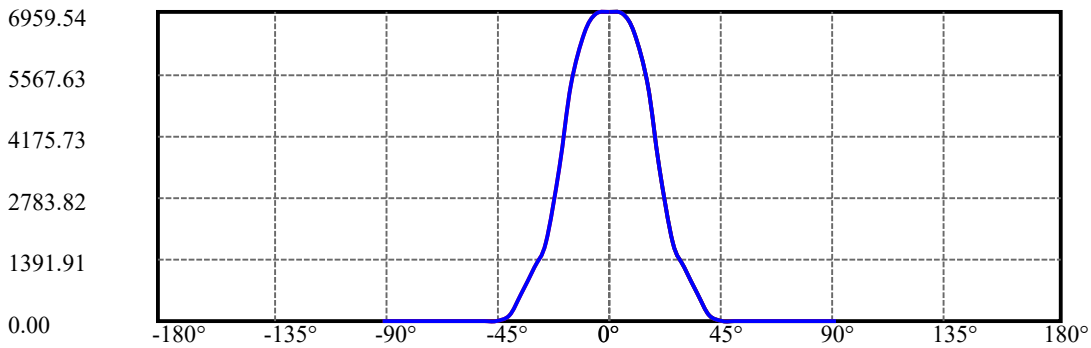
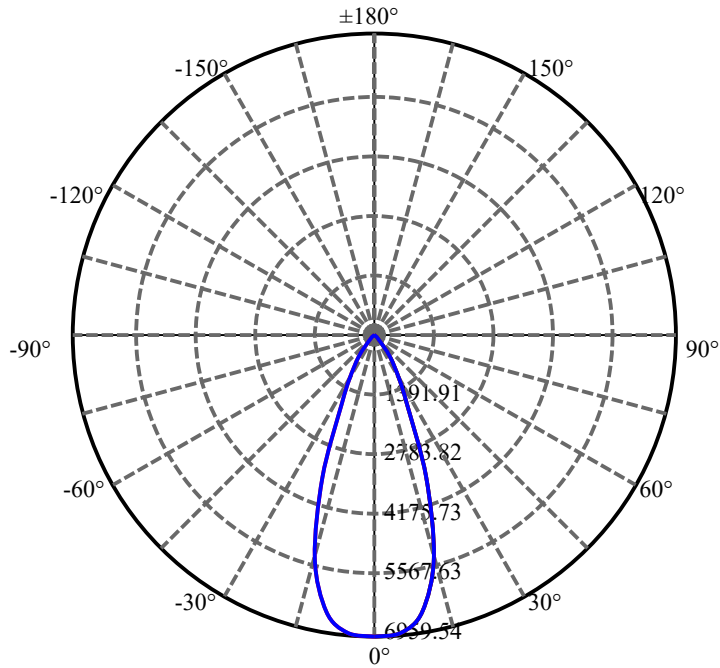
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	6959.542	0.000	0	.000%	.000%
5.0	6896.089	165.640	165.64	4.276%	4.777%
10.0	6464.654	477.956	643.596	12.338%	18.559%
15.0	5325.881	699.407	1343.003	18.054%	38.728%
20.0	3478.876	725.636	2068.638	18.731%	59.653%
25.0	1771.440	550.661	2619.299	14.214%	75.532%
30.0	1189.845	374.753	2994.052	9.674%	86.339%
35.0	585.119	261.376	3255.428	6.747%	93.876%
40.0	127.655	118.921	3374.349	3.070%	97.306%
45.0	20.880	27.503	3401.852	.710%	98.099%
50.0	16.290	7.511	3409.362	.194%	98.315%
55.0	15.368	6.883	3416.246	.178%	98.514%
60.0	14.851	6.985	3423.231	.180%	98.715%
65.0	14.507	7.137	3430.368	.184%	98.921%
70.0	14.260	7.284	3437.652	.188%	99.131%
75.0	14.094	7.411	3445.063	.191%	99.345%
80.0	13.971	7.509	3452.573	.194%	99.561%
85.0	14.026	7.607	3460.18	.196%	99.781%
90.0	13.757	7.607	3467.787	.196%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2994.05	77.29%	86.34%
0-40	3374.35	87.10%	97.31%
0-60	3423.23	88.36%	98.72%
0-90	3460.18	89.32%	99.78%
0-120	3460.18	89.32%	99.78%
0-180	3467.79	89.51%	100.00%
60-90	43.93	1.13%	1.27%
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%
0-27.07	2774.23	71.61%	80.00%

ZONAL LUMEN SUMMARY

0-10	643.60
10-20	1425.04
20-30	925.41
30-40	380.30
40-50	35.01
50-60	13.87
60-70	14.42
70-80	14.92
80-90	7.61
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: —————

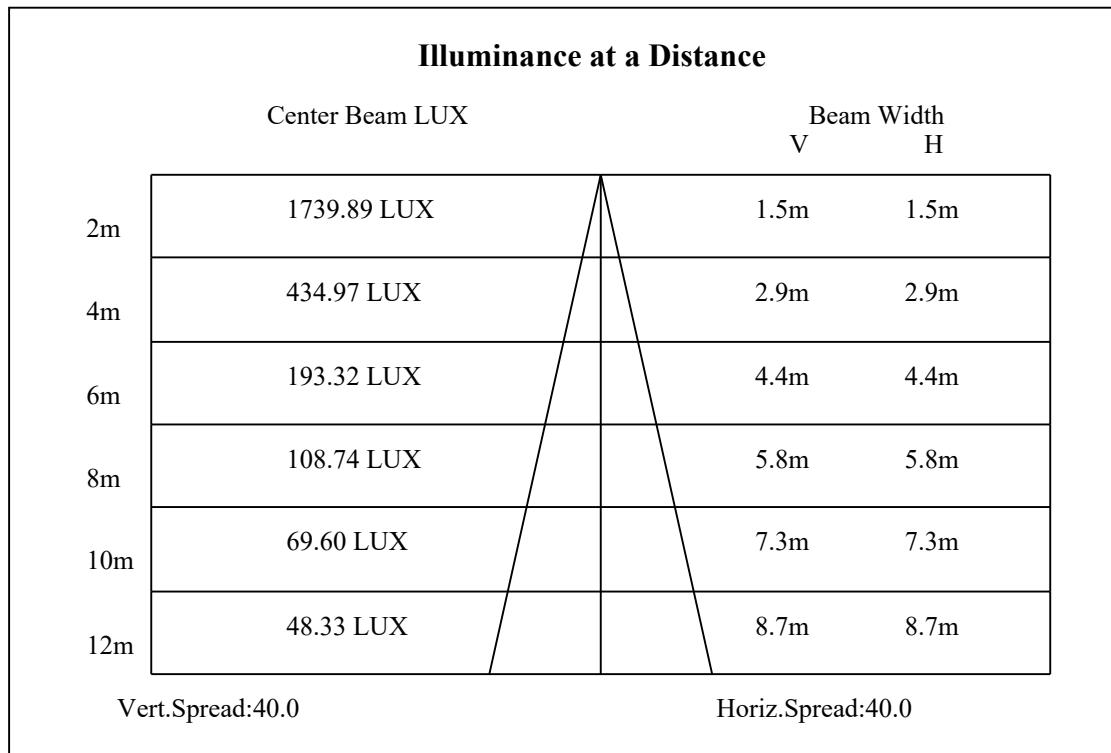
C90/C270: —————

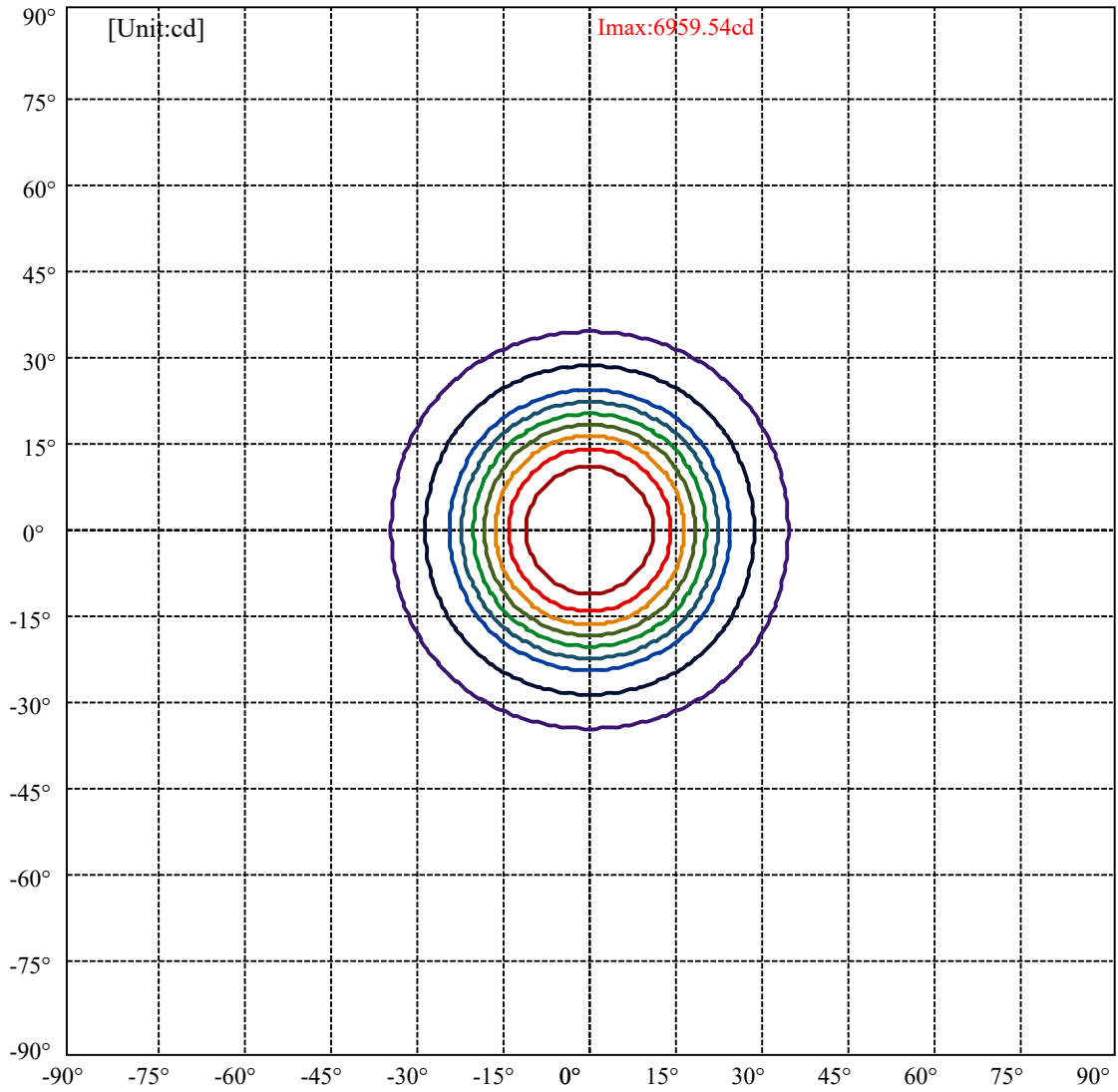
Field angle(10%Imax):C0/180Left:34.1 Right:34.1

:C90/270Left:34.1 Right:34.1

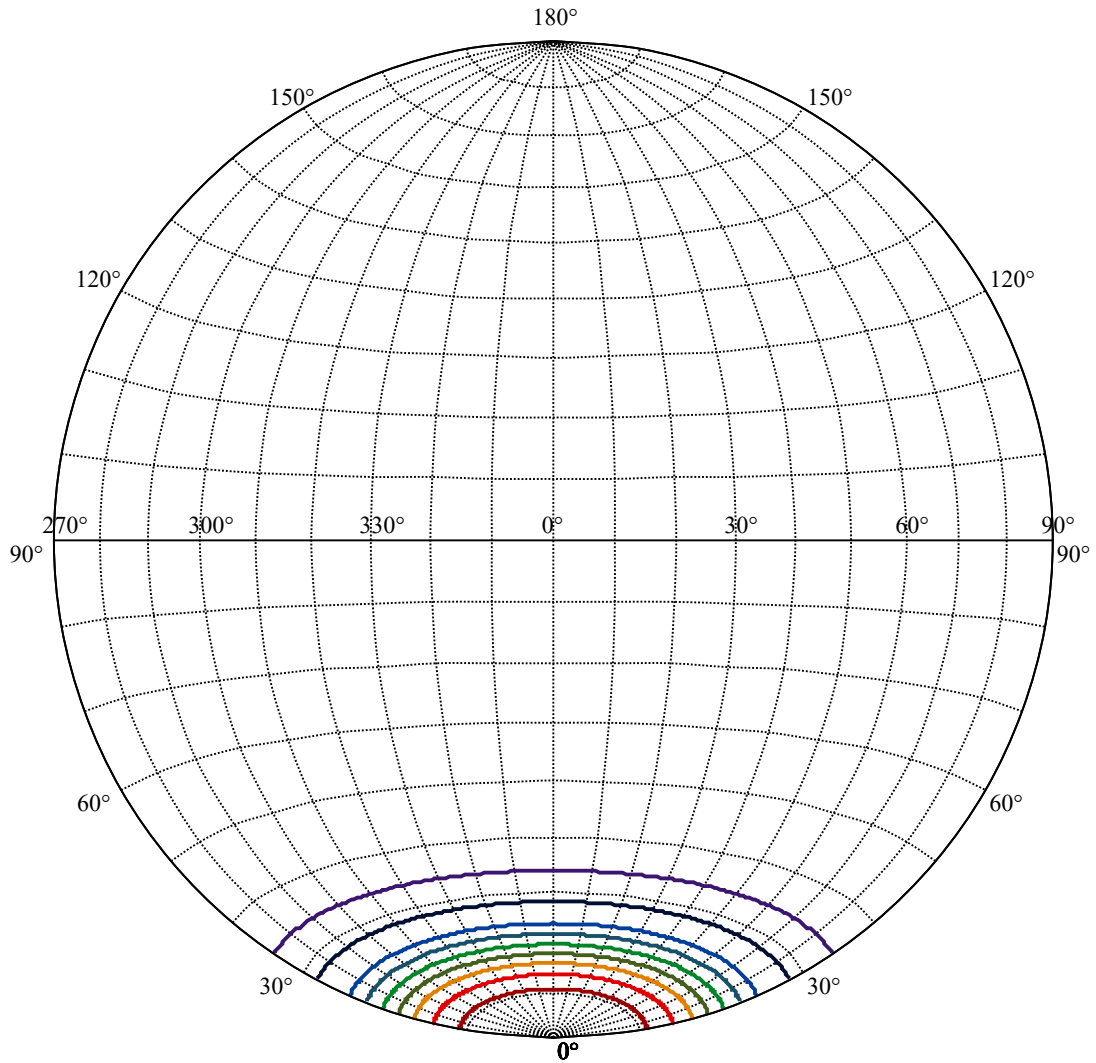
Beam Angle(50%Imax):C0/180Left:20.0 Right:20.0

:C90/270Left:20.0 Right:20.0





(10%Imax) 695.954	—
(20%Imax) 1391.91	—
(30%Imax) 2087.86	—
(40%Imax) 2783.82	—
(50%Imax) 3479.77	—
(60%Imax) 4175.73	—
(70%Imax) 4871.68	—
(80%Imax) 5567.63	—
(90%Imax) 6263.59	—



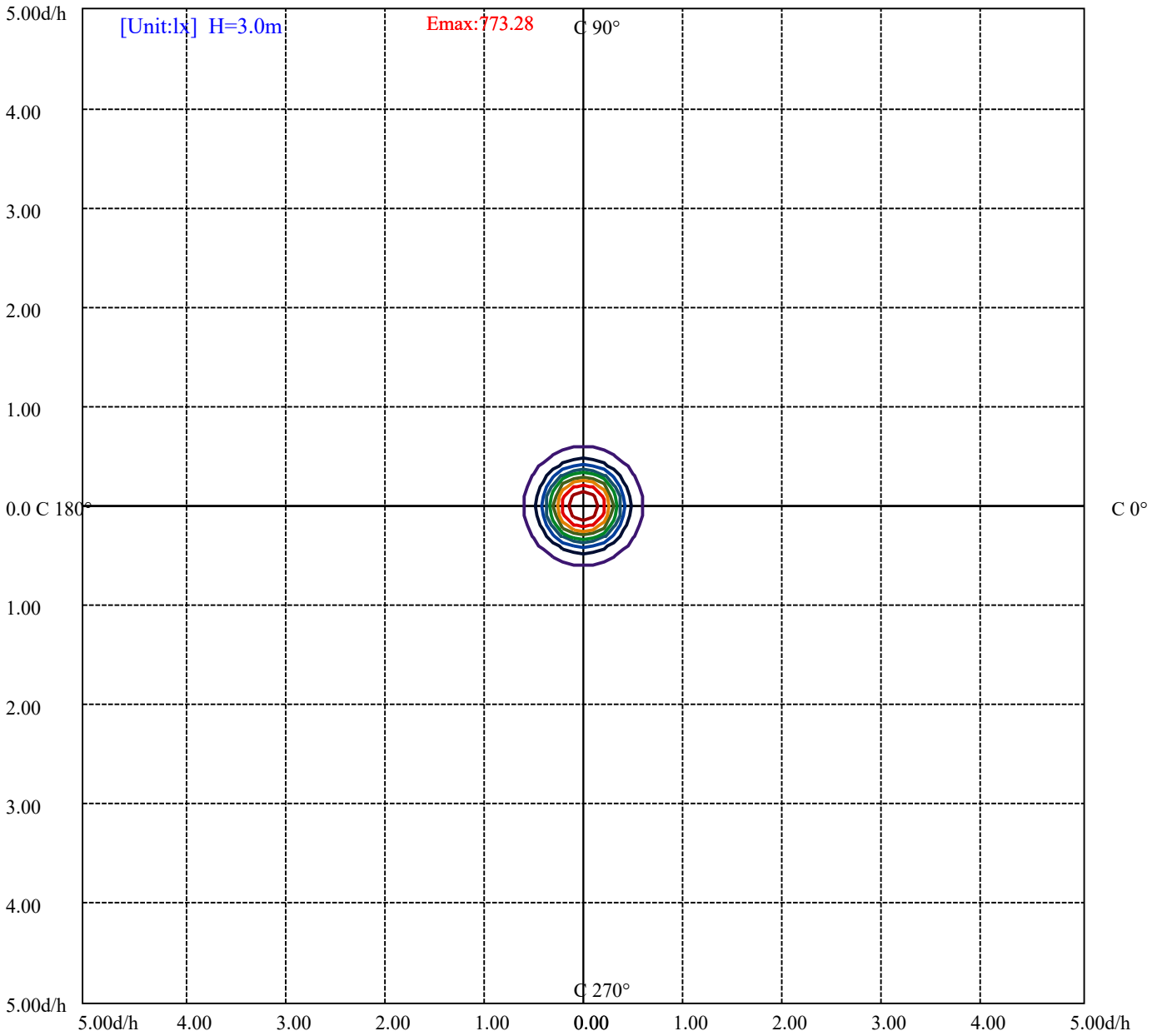
House

[Unit:cd]

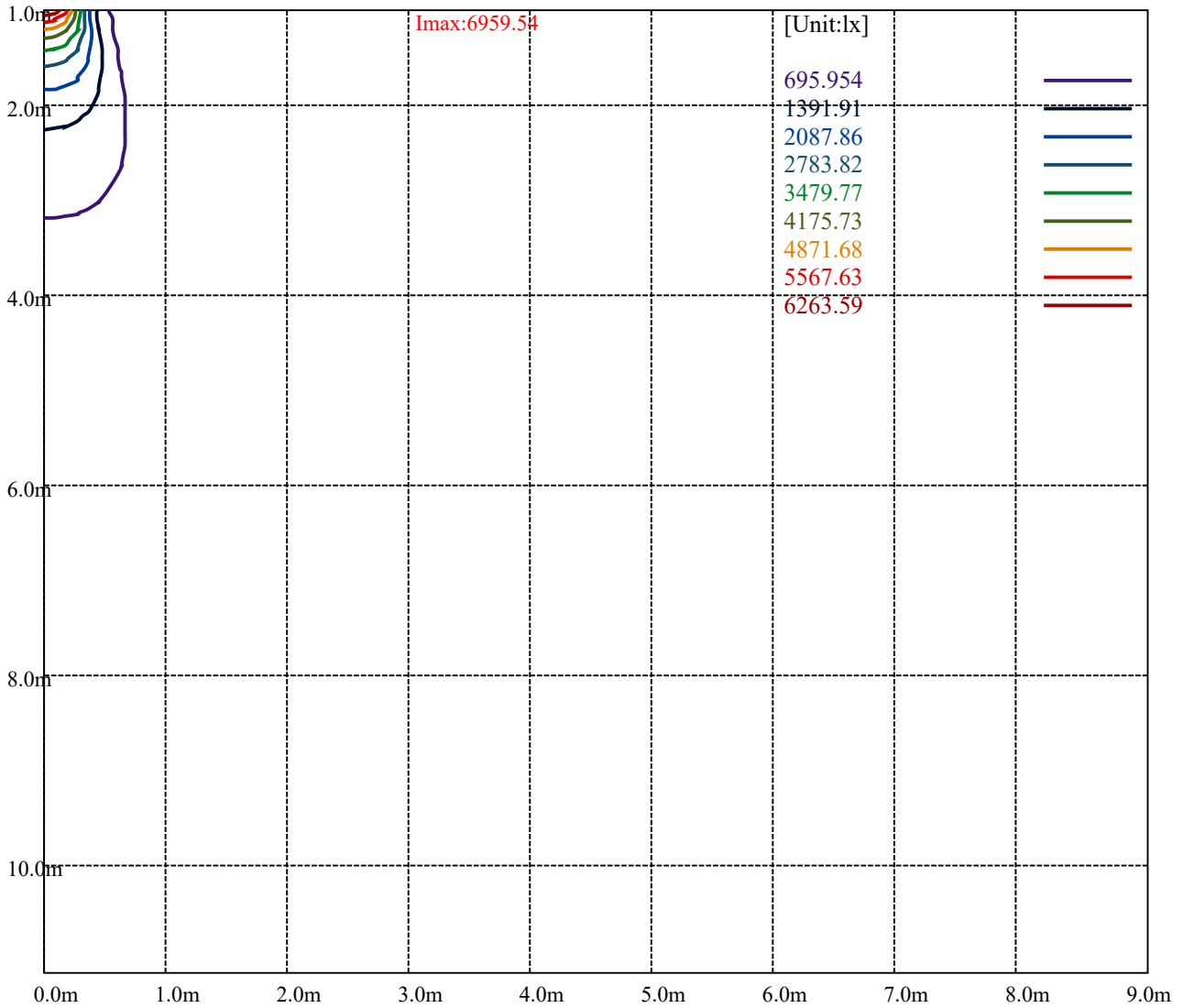
Road

Imax:6959.54

(10%Imax)	695.954	—
(20%Imax)	1391.91	—
(30%Imax)	2087.86	—
(40%Imax)	2783.82	—
(50%Imax)	3479.77	—
(60%Imax)	4175.73	—
(70%Imax)	4871.68	—
(80%Imax)	5567.63	—
(90%Imax)	6263.59	—



- (10%Emax) 77.32822
- (20%Emax) 154.6567
- (30%Emax) 231.9845
- (40%Emax) 309.3134
- (50%Emax) 386.6411
- (60%Emax) 463.9689
- (70%Emax) 541.2978
- (80%Emax) 618.6255
- (90%Emax) 695.9544



Luminance Table

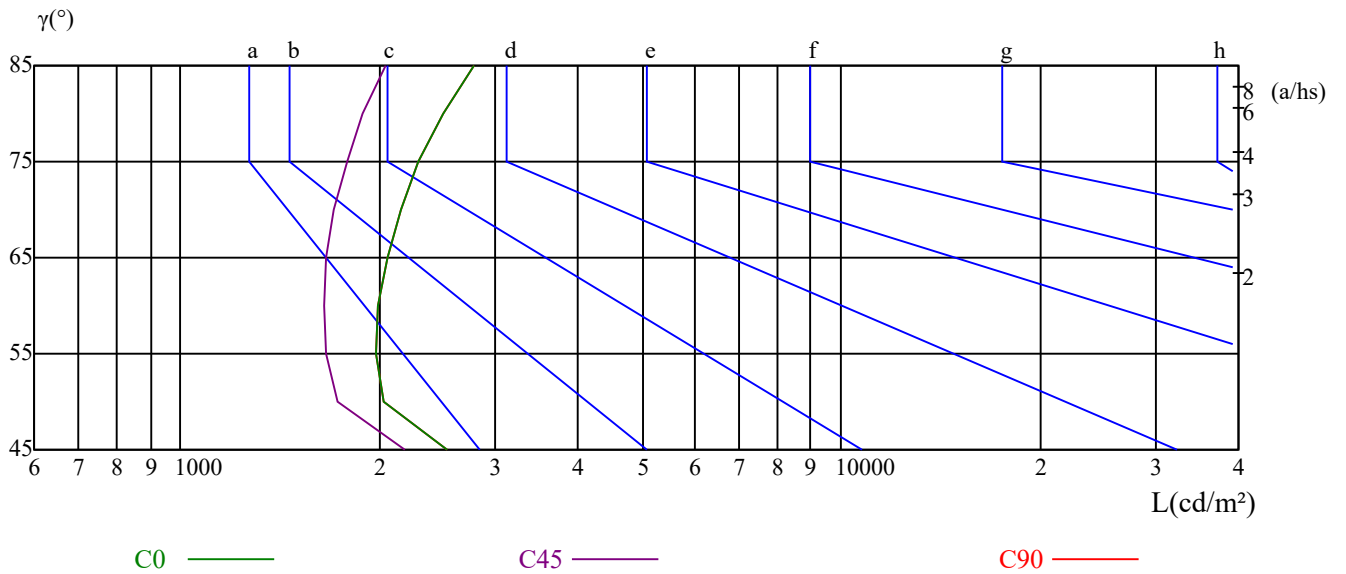
γ	45	50	55	60	65	70	75	80	85
C0	2536	2029	1979	1996	2055	2153	2296	2491	2787
C45	2191	1727	1659	1645	1664	1709	1782	1885	2046
C90	2536	2029	1979	1996	2055	2153	2296	2491	2787

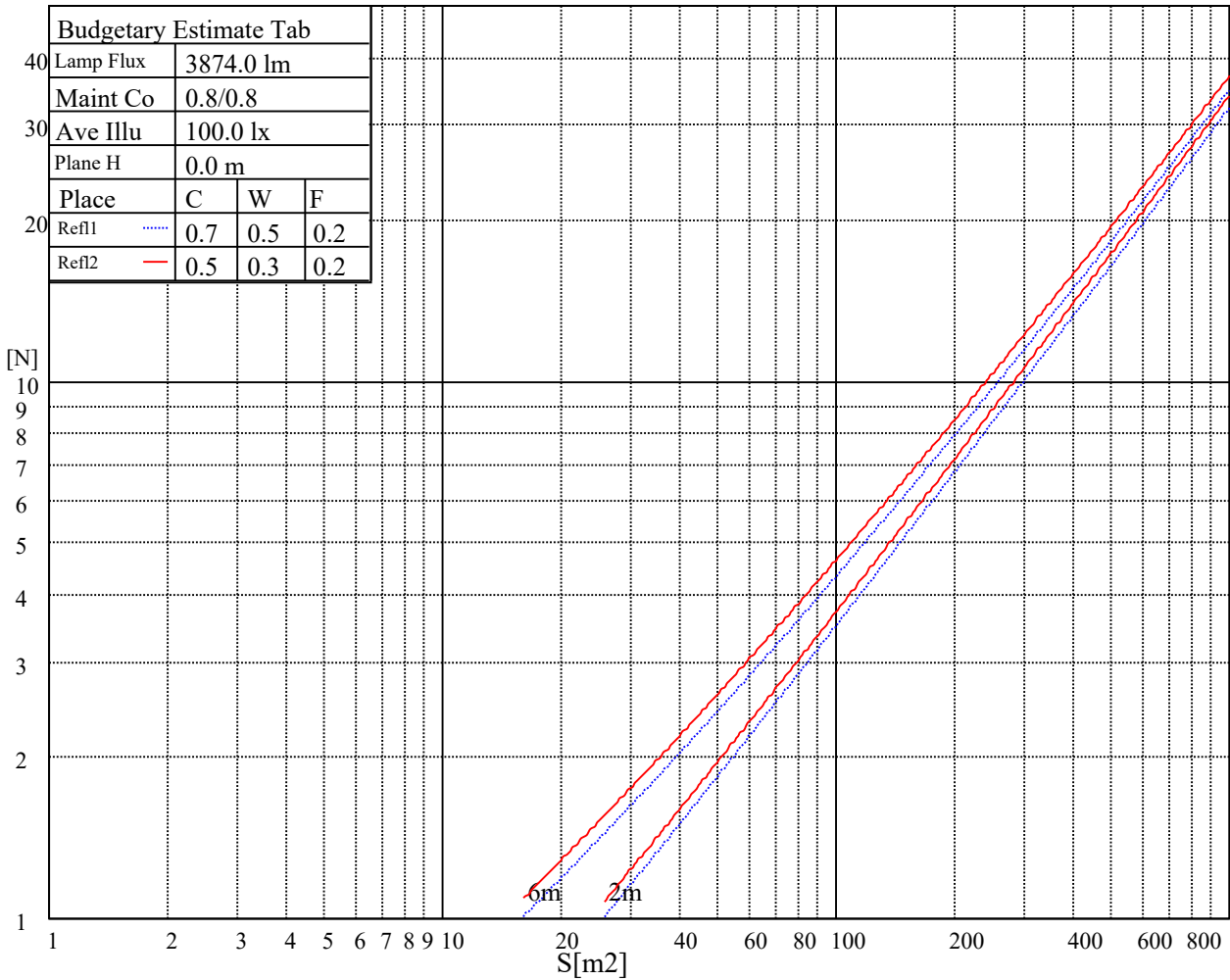
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4751	4751	4751	7537	7537	7537	22273	22273	22273

Glare Table

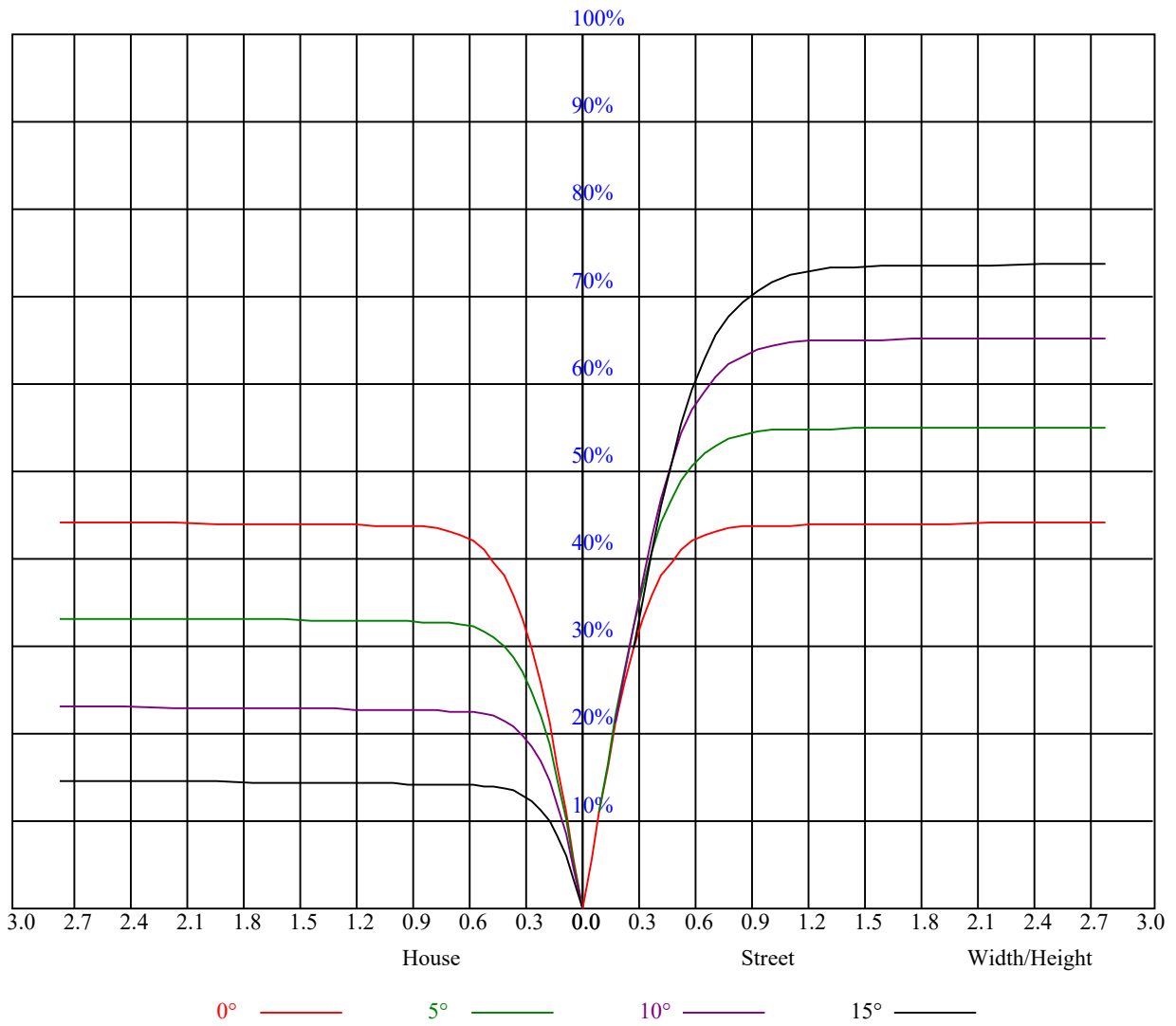
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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 RHOF=20 CU															
0	1.07	1.07	1.07	1.04	1.04	1.04	0.99	0.99	0.99	0.95	0.95	0.95	0.91	0.91	0.91	0.90
1	1.00	0.98	0.96	0.98	0.96	0.94	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87	0.86	0.85
2	0.94	0.91	0.88	0.92	0.90	0.87	0.90	0.87	0.85	0.87	0.85	0.83	0.85	0.83	0.82	0.80
3	0.89	0.85	0.82	0.88	0.84	0.81	0.85	0.82	0.80	0.83	0.81	0.79	0.81	0.79	0.77	0.76
4	0.84	0.80	0.77	0.83	0.79	0.76	0.81	0.78	0.75	0.80	0.77	0.74	0.78	0.76	0.74	0.72
5	0.80	0.76	0.72	0.79	0.75	0.72	0.78	0.74	0.71	0.76	0.73	0.71	0.75	0.72	0.70	0.69
6	0.76	0.72	0.68	0.76	0.71	0.68	0.74	0.71	0.68	0.73	0.70	0.67	0.72	0.69	0.67	0.66
7	0.73	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.64	0.69	0.66	0.64	0.63
8	0.70	0.65	0.62	0.69	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.61	0.67	0.63	0.61	0.60
9	0.67	0.62	0.59	0.66	0.62	0.59	0.66	0.62	0.59	0.65	0.61	0.59	0.64	0.61	0.59	0.58
10	0.64	0.60	0.57	0.64	0.59	0.57	0.63	0.59	0.56	0.62	0.59	0.56	0.62	0.58	0.56	0.55



Nata 3-1944-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	6955.83	6886.45	6295.70	4904.97	2962.58	1522.86	1088.47	449.81	33.47
45.0	6966.84	6933.25	6621.08	5583.27	3759.25	1828.42	1303.18	679.40	301.16
90.0	6965.74	6877.09	6528.59	5458.29	3628.22	1785.48	1096.17	633.42	87.32
135.0	6949.77	6917.29	6686.05	5833.78	4382.49	2257.86	1384.67	818.14	298.96
180.0	6955.83	6892.51	6600.71	5631.72	4052.70	2024.42	1326.31	758.95	169.90
225.0	6966.84	6877.65	6336.44	5142.82	3093.62	1620.31	1094.85	455.70	45.53
270.0	6965.74	6914.53	6481.79	5319.00	3284.66	1683.62	1200.78	540.10	54.12
315.0	6949.77	6869.94	6166.87	4733.20	2667.48	1448.53	1024.32	345.42	30.78
360.0	6955.83	6886.45	6295.70	4904.97	2962.58	1522.86	1088.47	449.81	33.47

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	17.51	16.02	15.20	14.65	14.37	14.15	13.98	13.76	13.98
45.0	23.07	16.41	15.47	14.92	14.65	14.37	14.20	14.04	13.98
90.0	22.41	16.30	15.36	14.92	14.53	14.31	14.20	14.15	14.42
135.0	25.00	16.79	15.75	15.09	14.65	14.37	14.20	14.15	14.04
180.0	23.12	16.46	15.36	14.81	14.42	14.15	13.93	13.82	13.87
225.0	18.94	16.13	15.31	14.81	14.48	14.26	14.09	13.93	13.93
270.0	19.71	16.30	15.36	14.92	14.53	14.31	14.15	14.04	13.98
315.0	17.29	15.91	15.14	14.70	14.42	14.15	13.98	13.87	13.98
360.0	17.51	16.02	15.20	14.65	14.37	14.15	13.98	13.76	13.98

C/γ(°)	90.0
0.0	13.65
45.0	13.82
90.0	13.82
135.0	13.76
180.0	13.60
225.0	13.82
270.0	13.82
315.0	13.76
360.0	13.65