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Nata

LumCAT: 1-1007-M	
Luminaire: BJB 47.360.1020	
Report No: NATA0100	Voltage(V): 33.8900
Test No: GC2019102402	Current(A): 0.2970
LampCAT: BRIDGELUX V10B LES10	Power (W): 10.0600
Lamp flux(lm): 1478.0	PF: 1.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1104.93
Efficiency(%): 74.76%
Lumens(lm)/Power(W): 109.83
Central intensity(cd): 3463.594
Maximum intensity(cd): 3463.594
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=34.3
[C90/270]Total=34.3
Field angle(10%Imax): [C0/180]Total=49.6
[C90/270]Total=49.6
Maximum s/h(1/2): C0_180=0.57 C90_270=0.57
Maximum s/h(1/4): C0_180=0.54 C90_270=0.54
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 74.76%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.554%

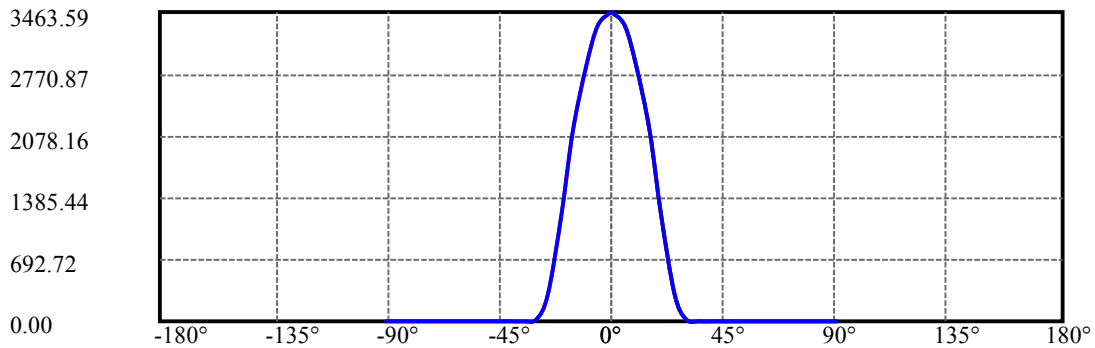
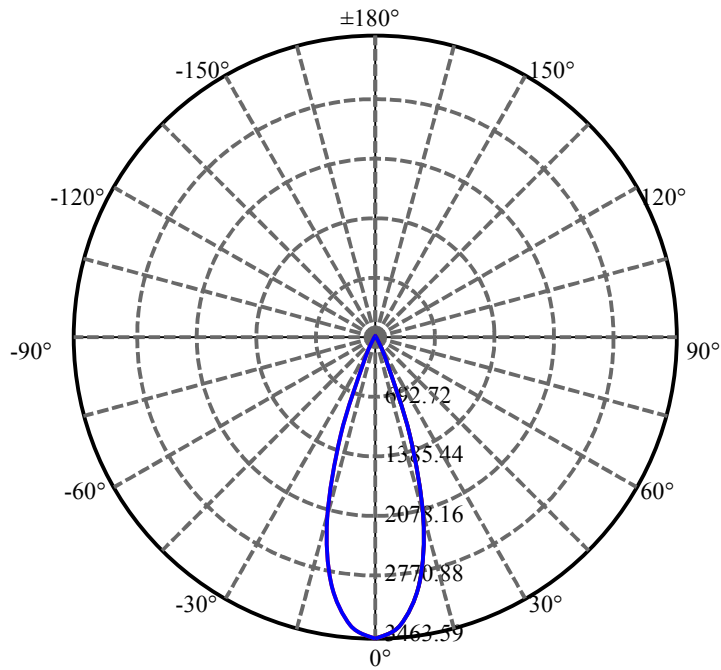
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3463.594	0.000	0	.000%	.000%
5.0	3311.789	80.998	80.998	5.480%	7.331%
10.0	2865.445	220.979	301.977	14.951%	27.330%
15.0	2137.922	296.796	598.773	20.081%	54.191%
20.0	1188.225	274.121	872.894	18.547%	79.000%
25.0	307.913	156.917	1029.812	10.617%	93.201%
30.0	23.133	41.894	1071.706	2.835%	96.993%
35.0	9.232	4.766	1076.472	.322%	97.424%
40.0	7.059	2.718	1079.19	.184%	97.670%
45.0	6.152	2.446	1081.636	.166%	97.892%
50.0	5.709	2.397	1084.033	.162%	98.109%
55.0	5.470	2.431	1086.464	.164%	98.329%
60.0	5.302	2.490	1088.954	.168%	98.554%
65.0	5.210	2.555	1091.509	.173%	98.785%
70.0	5.147	2.622	1094.132	.177%	99.022%
75.0	5.105	2.680	1096.811	.181%	99.265%
80.0	5.020	2.709	1099.52	.183%	99.510%
85.0	4.950	2.709	1102.229	.183%	99.755%
90.0	4.922	2.703	1104.932	.183%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1071.71	72.51%	96.99%
0-40	1079.19	73.02%	97.67%
0-60	1088.95	73.68%	98.55%
0-90	1102.23	74.58%	99.76%
0-120	1102.23	74.58%	99.76%
0-180	1104.93	74.76%	100.00%
60-90	15.77	1.07%	1.43%
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%
0-20.35	883.95	59.81%	80.00%

ZONAL LUMEN SUMMARY

0-10	301.98
10-20	570.92
20-30	198.81
30-40	7.48
40-50	4.84
50-60	4.92
60-70	5.18
70-80	5.39
80-90	2.71
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: —————

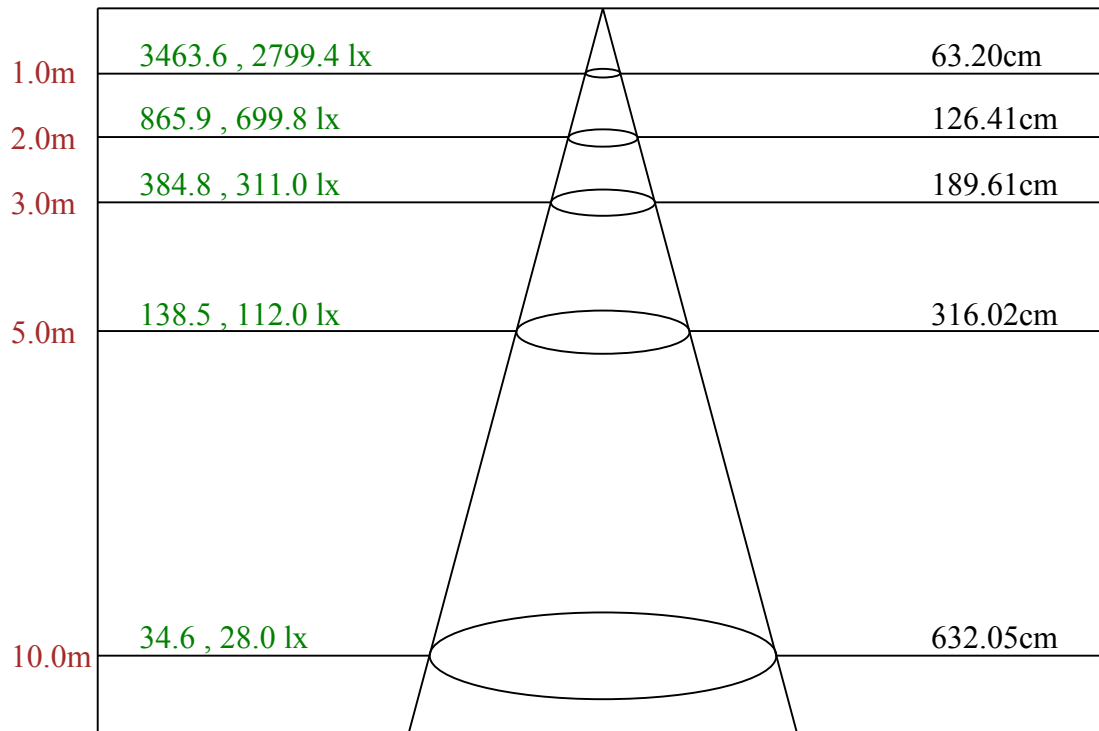
C90/C270: —————

Field angle(10%Imax):C0/180Left:24.8 Right:24.8

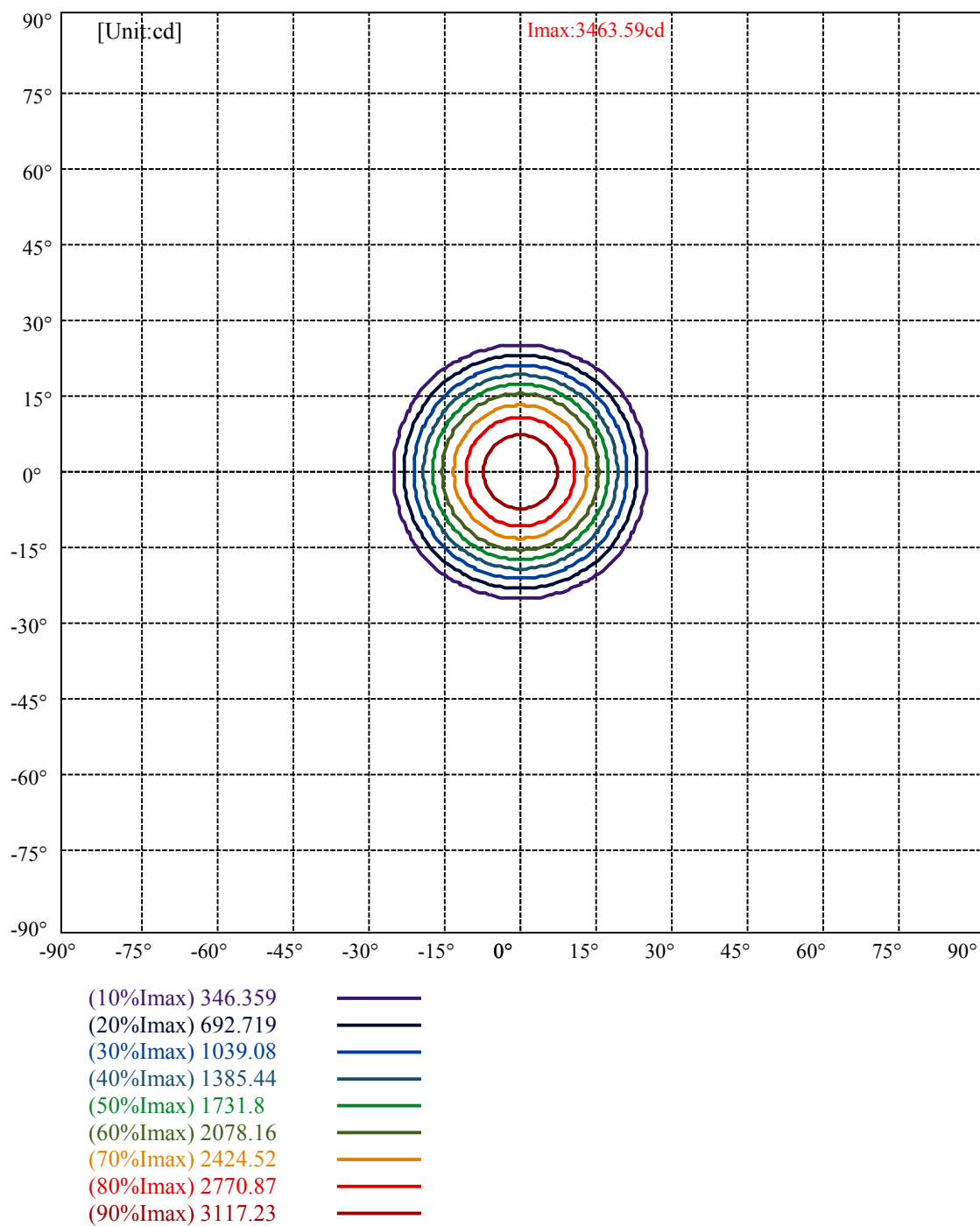
:C90/270Left:24.8 Right:24.8

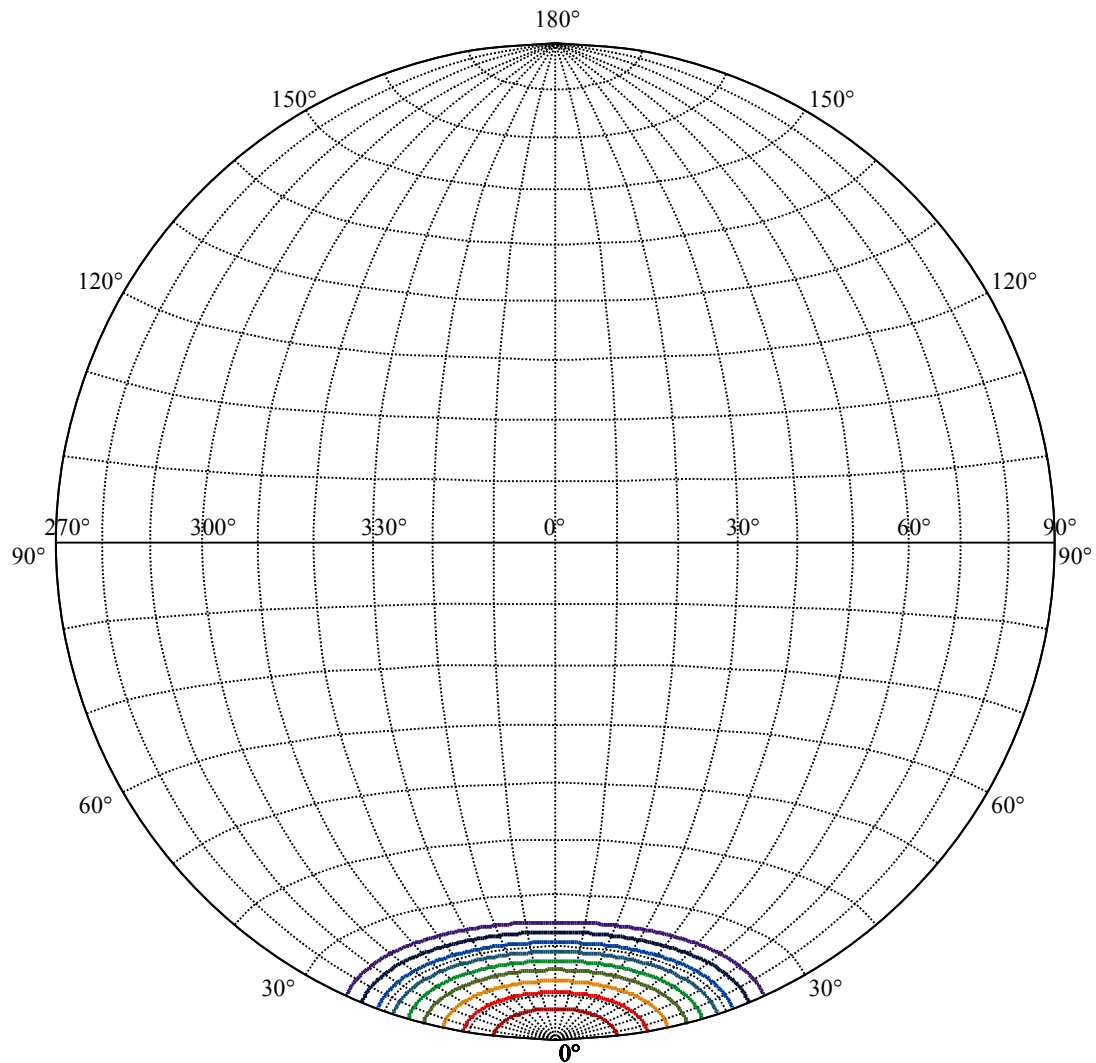
Beam Angle(50%Imax):C0/180Left:17.1 Right:17.1

:C90/270Left:17.1 Right:17.1



Max , Ave Beam angle of C0 plane 35.08





House

[Unit:cd]

Road

Imax:3463.59

(10%Imax) 346.359

(20%Imax) 692.719

(30%Imax) 1039.08

(40%Imax) 1385.44

(50%Imax) 1731.8

(60%Imax) 2078.16

(70%Imax) 2424.52

(80%Imax) 2770.87

(90%Imax) 3117.23

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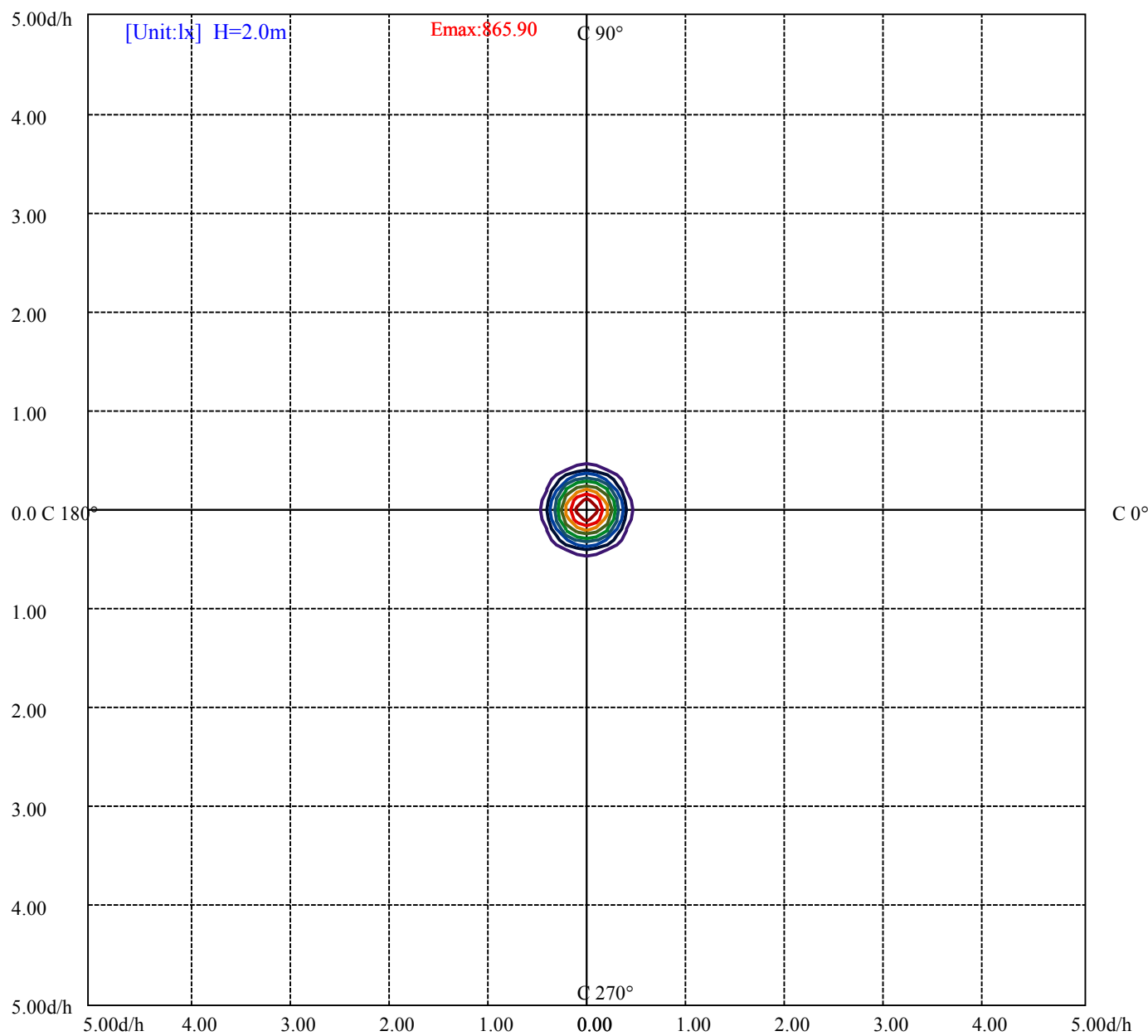
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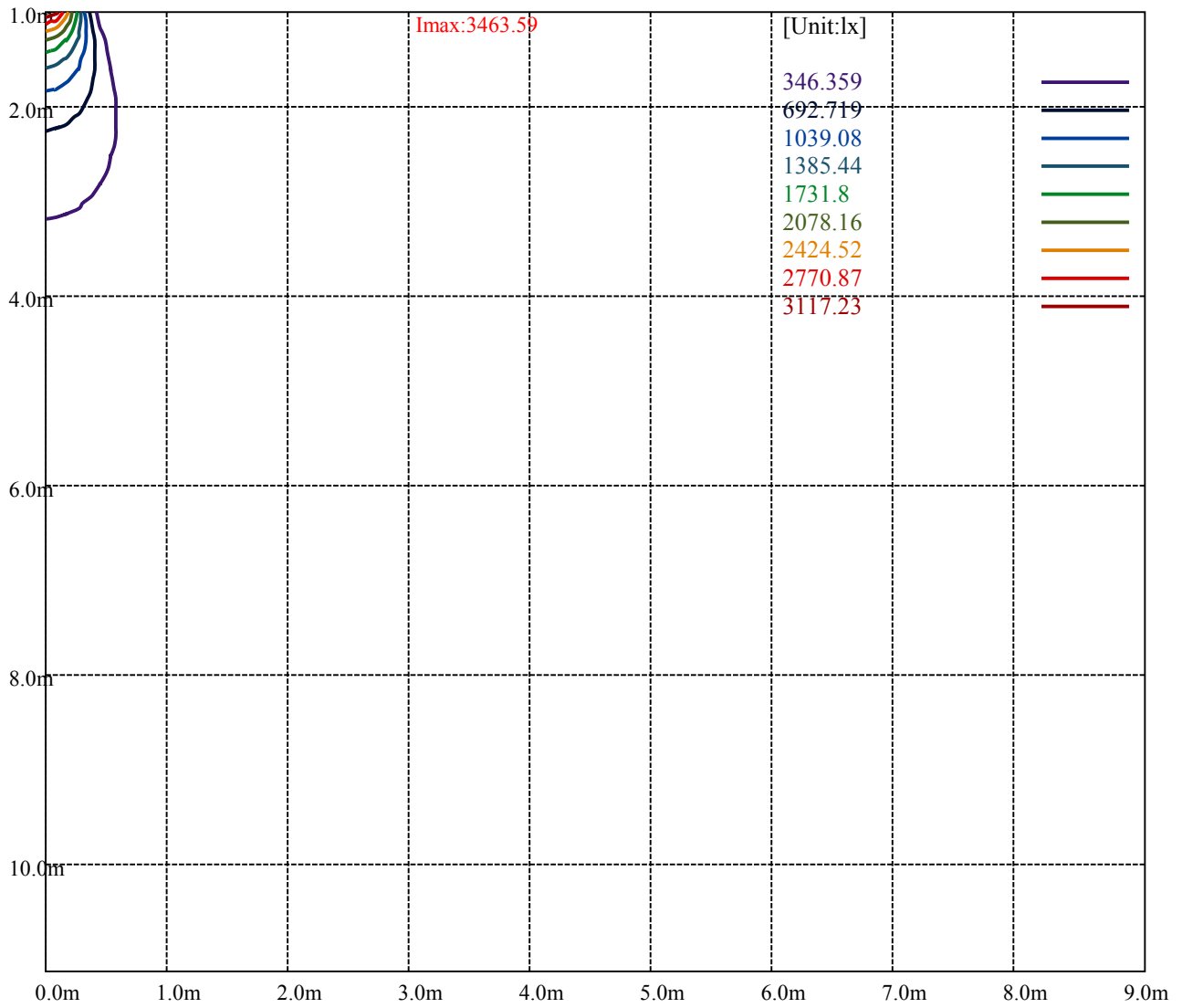
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(10%E _{max}) 86.58975	—
(20%E _{max}) 173.1795	—
(30%E _{max}) 259.77	—
(40%E _{max}) 346.36	—
(50%E _{max}) 432.9475	—
(60%E _{max}) 519.5375	—
(70%E _{max}) 606.1275	—
(80%E _{max}) 692.7175	—
(90%E _{max}) 779.3075	—



Luminance Table

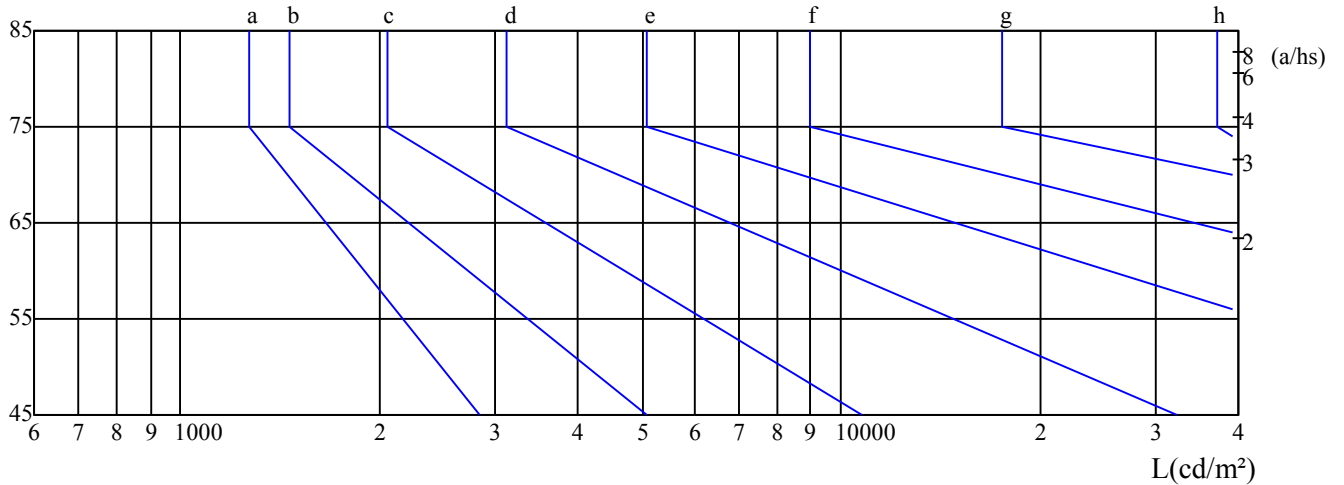
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

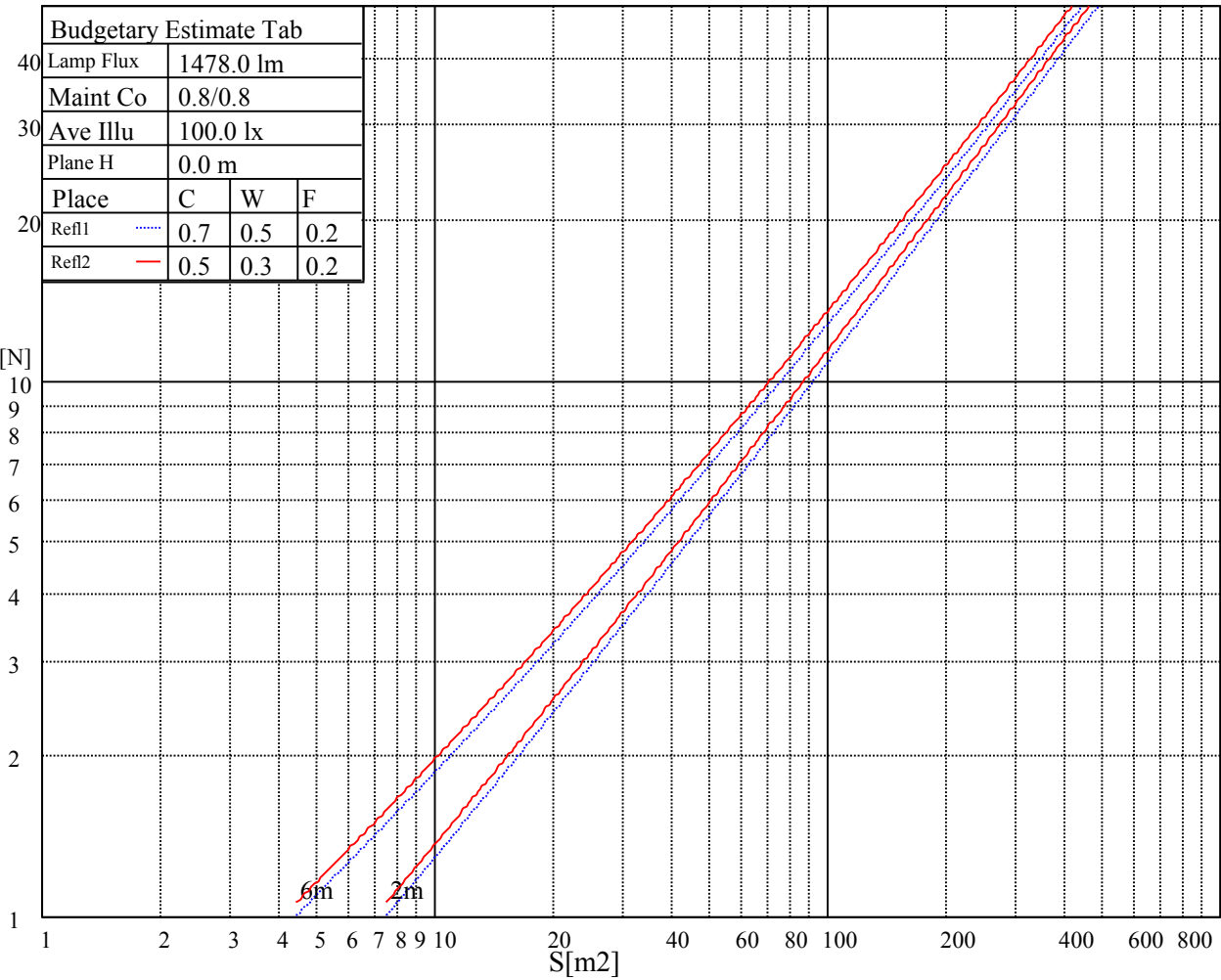
Luminance Limiting Curve

 $\gamma(^{\circ})$ 

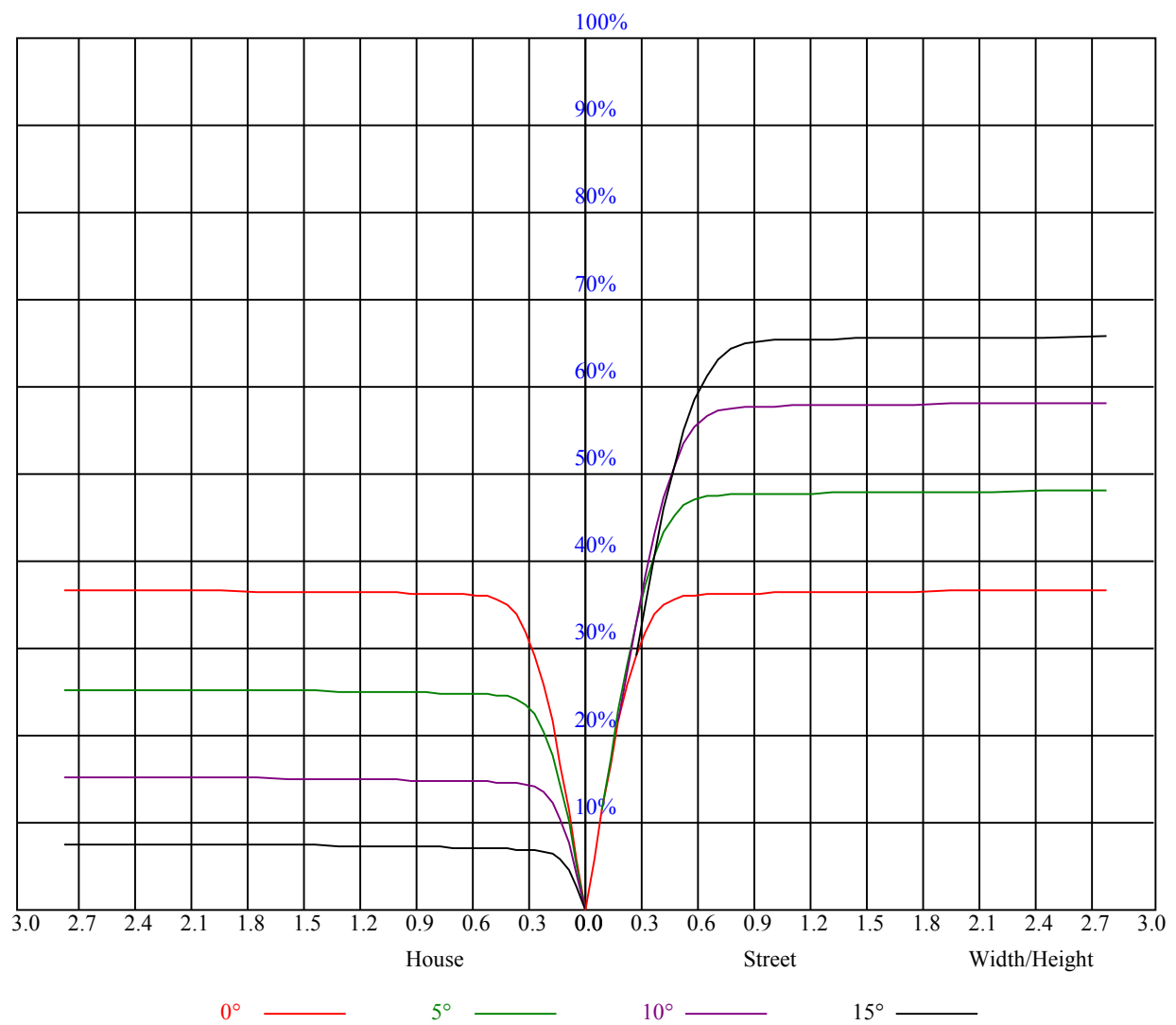
C0 ———

C45 ———

C90 ———



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	0.89	0.89	0.89	0.87	0.87	0.87	0.83	0.83	0.83	0.80	0.80	0.80	0.76	0.76	0.76	0.75
1	0.84	0.82	0.81	0.82	0.81	0.80	0.79	0.78	0.77	0.77	0.76	0.75	0.74	0.73	0.73	0.72
2	0.80	0.77	0.75	0.79	0.76	0.75	0.76	0.74	0.73	0.74	0.73	0.71	0.72	0.71	0.70	0.69
3	0.76	0.73	0.71	0.75	0.73	0.70	0.73	0.71	0.69	0.72	0.70	0.68	0.70	0.69	0.67	0.66
4	0.73	0.70	0.68	0.72	0.69	0.67	0.71	0.68	0.66	0.69	0.67	0.66	0.68	0.66	0.65	0.64
5	0.70	0.67	0.65	0.70	0.67	0.64	0.68	0.66	0.64	0.67	0.65	0.63	0.66	0.64	0.63	0.62
6	0.68	0.64	0.62	0.67	0.64	0.62	0.66	0.63	0.61	0.65	0.63	0.61	0.64	0.62	0.61	0.60
7	0.65	0.62	0.60	0.65	0.62	0.60	0.64	0.61	0.59	0.63	0.61	0.59	0.62	0.60	0.59	0.58
8	0.63	0.60	0.58	0.63	0.60	0.58	0.62	0.59	0.57	0.61	0.59	0.57	0.61	0.59	0.57	0.56
9	0.61	0.58	0.56	0.61	0.58	0.56	0.60	0.57	0.56	0.60	0.57	0.55	0.59	0.57	0.55	0.54
10	0.59	0.56	0.54	0.59	0.56	0.54	0.58	0.56	0.54	0.58	0.55	0.54	0.58	0.55	0.54	0.53



Nata 1-1007-M

Intensity data(cd)										Appendix Page: 14 Total:14
C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	
0.0	3463.31	3351.38	2917.69	2224.69	1301.63	357.75	24.30	9.51	7.20	
45.0	3462.19	3329.44	2908.13	2259.00	1280.81	352.13	34.26	9.62	7.31	
90.0	3462.19	3251.81	2792.25	2000.81	1053.79	240.64	19.80	9.11	7.20	
135.0	3466.69	3324.38	2928.94	2188.69	1251.56	369.56	27.51	9.51	7.31	
180.0	3463.31	3277.13	2797.88	2052.56	1109.42	231.53	19.07	8.72	6.81	
225.0	3462.19	3303.56	2815.88	2060.44	1119.09	265.28	17.21	8.83	6.81	
270.0	3462.19	3360.38	2928.38	2278.13	1302.75	397.13	24.98	9.73	7.09	
315.0	3466.69	3296.25	2834.44	2039.06	1086.75	249.30	17.94	8.83	6.75	
360.0	3463.31	3351.38	2917.69	2224.69	1301.63	357.75	24.30	9.51	7.20	
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	
0.0	6.19	5.74	5.46	5.29	5.18	5.06	5.06	5.01	4.95	
45.0	6.30	5.85	5.63	5.46	5.34	5.29	5.23	5.18	4.89	
90.0	6.30	5.85	5.63	5.46	5.40	5.34	5.34	5.01	4.95	
135.0	6.30	5.79	5.51	5.34	5.23	5.18	5.06	5.06	5.01	
180.0	6.02	5.63	5.34	5.23	5.12	5.06	5.01	5.01	4.95	
225.0	5.96	5.51	5.34	5.18	5.12	5.06	5.06	4.95	4.95	
270.0	6.13	5.68	5.46	5.23	5.18	5.12	5.06	5.01	4.95	
315.0	6.02	5.63	5.40	5.23	5.12	5.06	5.01	4.95	4.95	
360.0	6.19	5.74	5.46	5.29	5.18	5.06	5.06	5.01	4.95	
C/γ(°)	90.0									
0.0	4.89									
45.0	4.89									
90.0	4.89									
135.0	4.95									
180.0	4.95									
225.0	4.89									
270.0	4.95									
315.0	4.95									
360.0	4.89									