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Nata

LumCAT: 4-2267-M	
Luminaire: 92.70.131.00	
Report No: NATA0100	Voltage(V): 34.1000
Test No: GC2018071910	Current(A): 0.3000
LampCAT: BRIDGELUX V9 HD	Power (W): 10.2300
Lamp flux(lm): 1166.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 100	Width(mm): 100
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1051.56
Efficiency(%): 90.19%
Lumens(lm)/Power(W): 104.75
Central intensity(cd): 3513.975
Maximum intensity(cd): 3513.975
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=24.3
[C90/270]Total=24.3
Field angle(10%Imax): [C0/180]Total=64.5
[C90/270]Total=64.5
Maximum s/h(1/2): C0_180=0.41 C90_270=0.41
Maximum s/h(1/4): C0_180=0.45 C90_270=0.45
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 91.90%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 96.667%

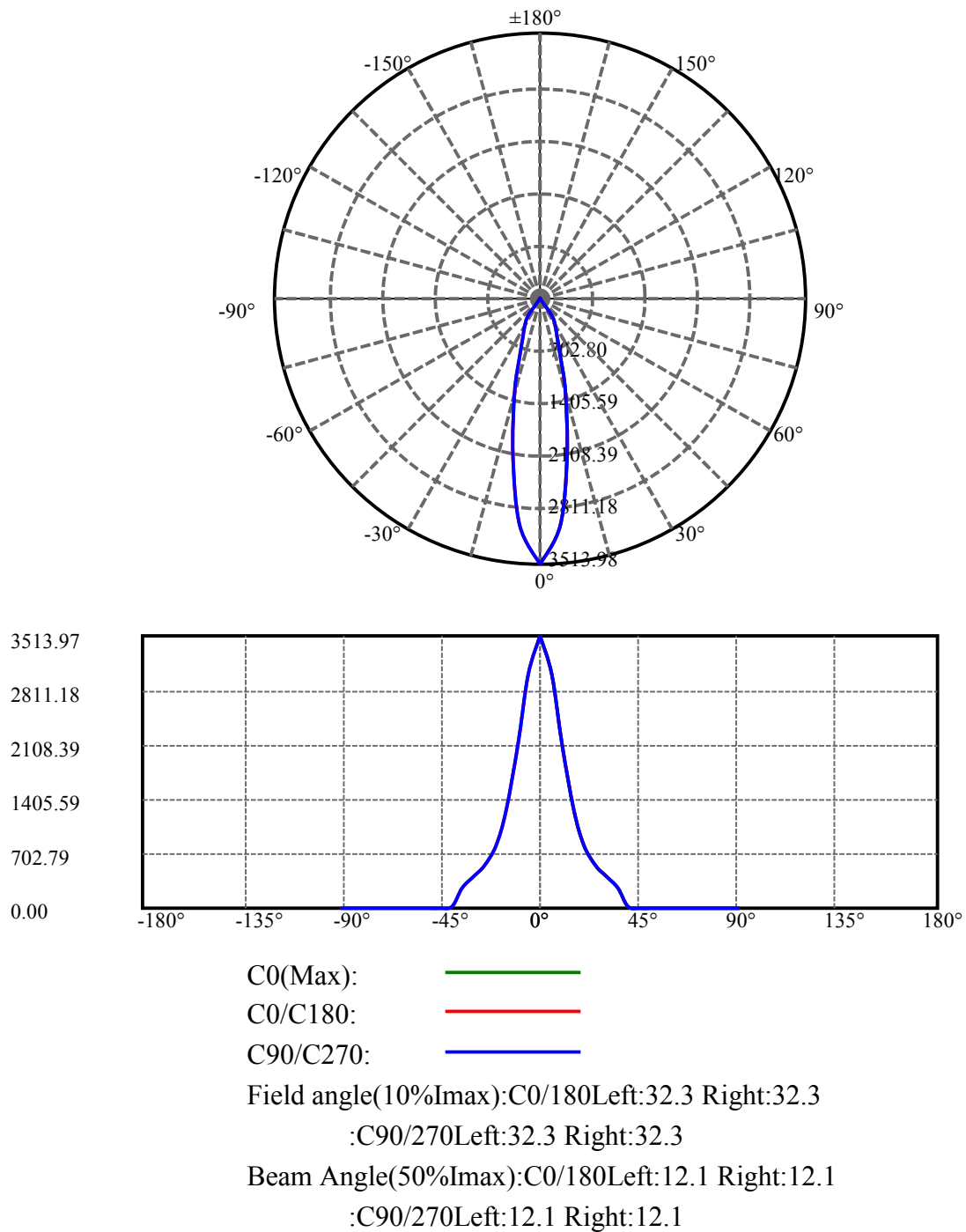
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3513.975	21.014	21.014	1.802%	1.998%
5.0	3010.277	143.811	164.825	12.334%	15.674%
10.0	2123.869	202.156	366.982	17.338%	34.899%
15.0	1267.302	179.790	546.772	15.419%	51.996%
20.0	799.605	149.905	696.677	12.856%	66.252%
25.0	543.118	125.815	822.492	10.790%	78.216%
30.0	418.133	114.597	937.089	9.828%	89.114%
35.0	269.893	84.854	1021.943	7.277%	97.184%
40.0	12.794	4.508	1026.45	.387%	97.612%
45.0	6.373	2.470	1028.921	.212%	97.847%
50.0	5.540	2.326	1031.247	.200%	98.068%
55.0	5.106	2.293	1033.54	.197%	98.286%
60.0	4.886	2.320	1035.859	.199%	98.507%
65.0	4.790	2.380	1038.239	.204%	98.733%
70.0	4.817	2.481	1040.72	.213%	98.969%
75.0	7.295	3.862	1044.582	.331%	99.337%
80.0	5.705	3.080	1047.662	.264%	99.629%
85.0	4.769	2.604	1050.266	.223%	99.877%
90.0	4.714	1.292	1051.558	.111%	100.000%

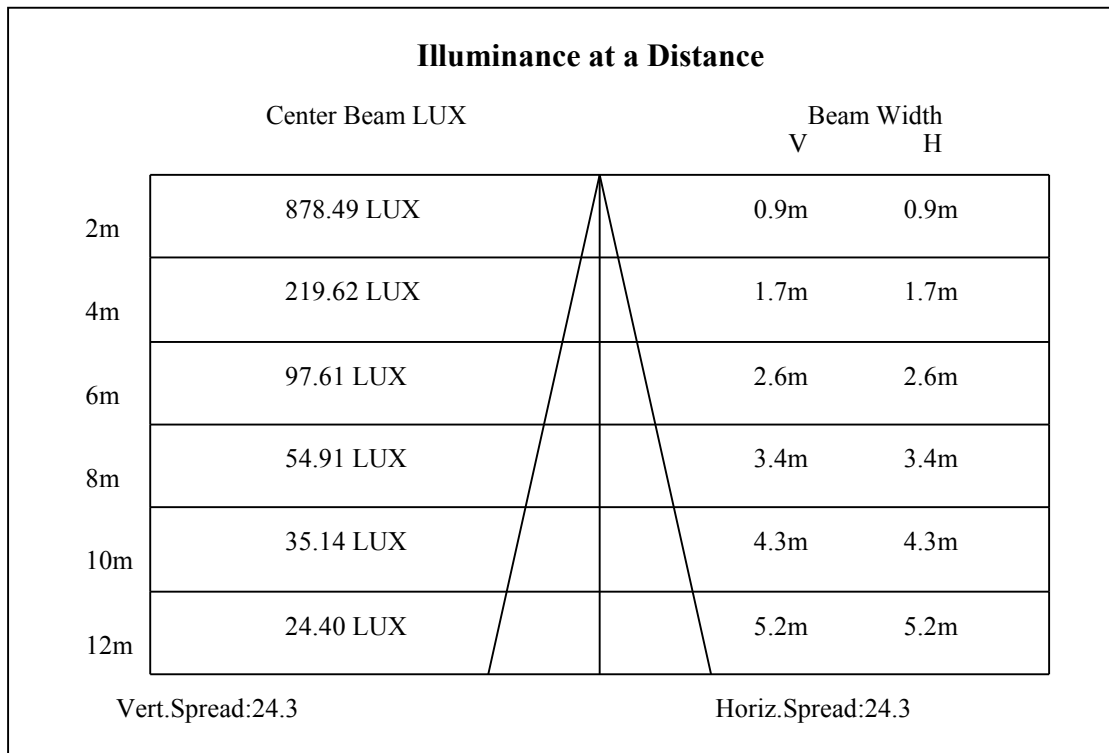
ZONAL LUMEN SUMMARY

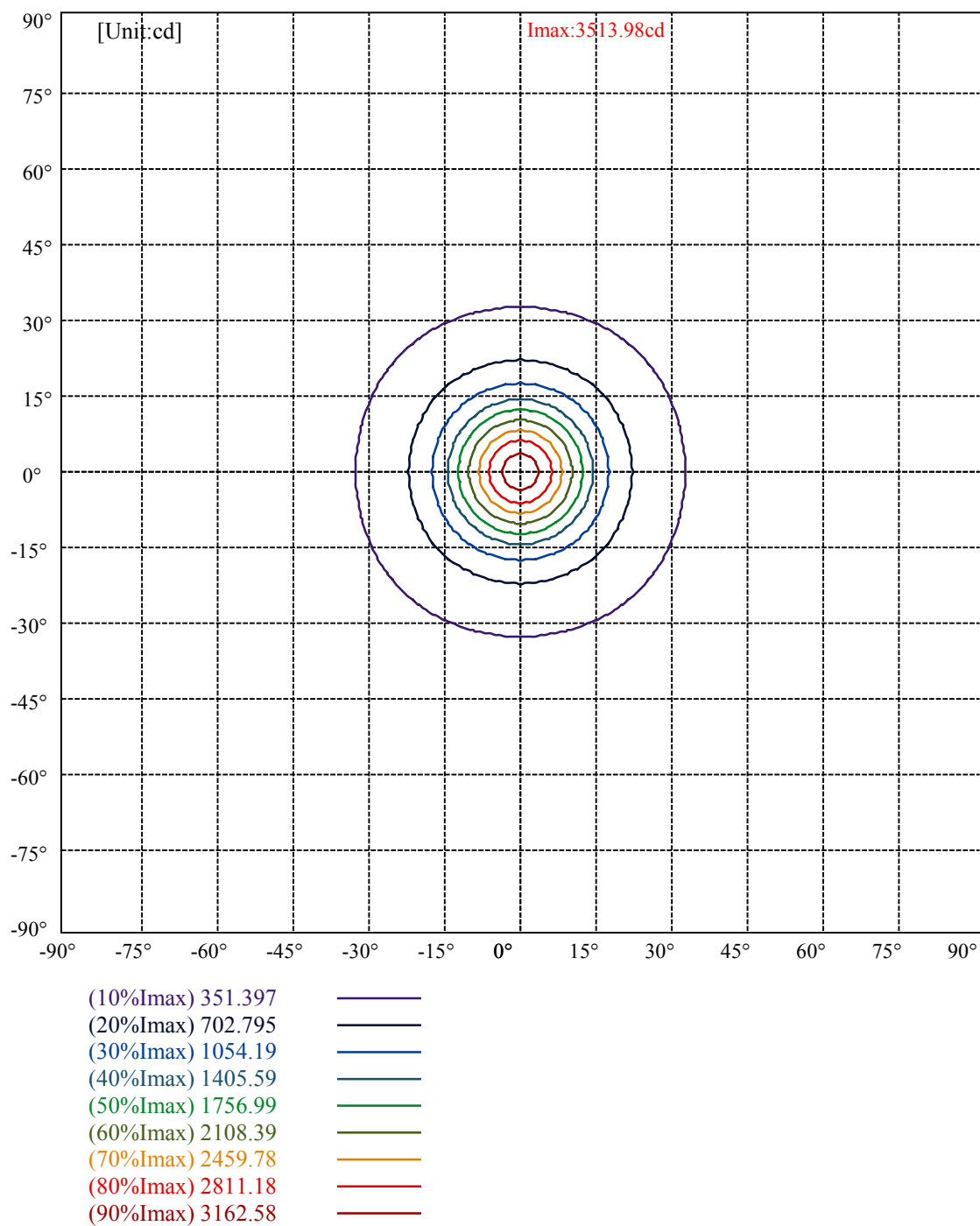
Zone	Lumens	%Lamp	%Fixt
0-30	937.09	80.37%	89.11%
0-40	1026.45	88.03%	97.61%
0-60	1035.86	88.84%	98.51%
0-90	1050.27	90.07%	99.88%
0-120	1050.27	90.07%	99.88%
0-180	1051.56	90.19%	100.00%
60-90	16.73	1.43%	1.59%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-25.82	841.25	72.15%	80.00%

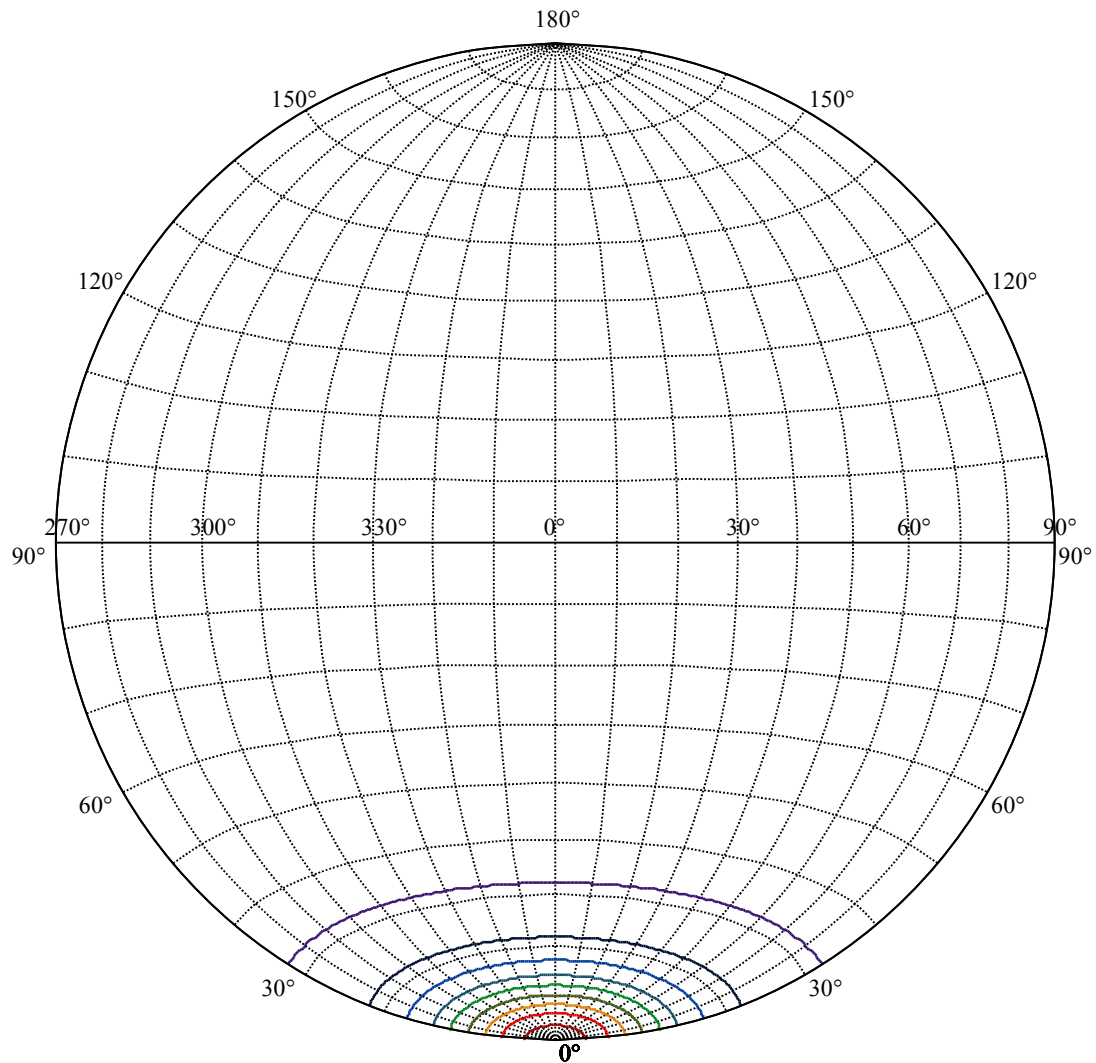
ZONAL LUMEN SUMMARY

0-10	366.98
10-20	329.70
20-30	240.41
30-40	89.36
40-50	4.80
50-60	4.61
60-70	4.86
70-80	6.94
80-90	2.60
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









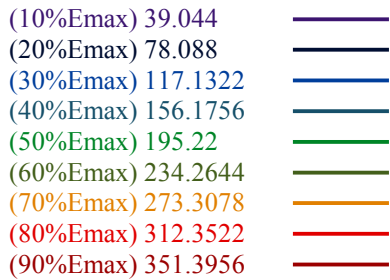
House

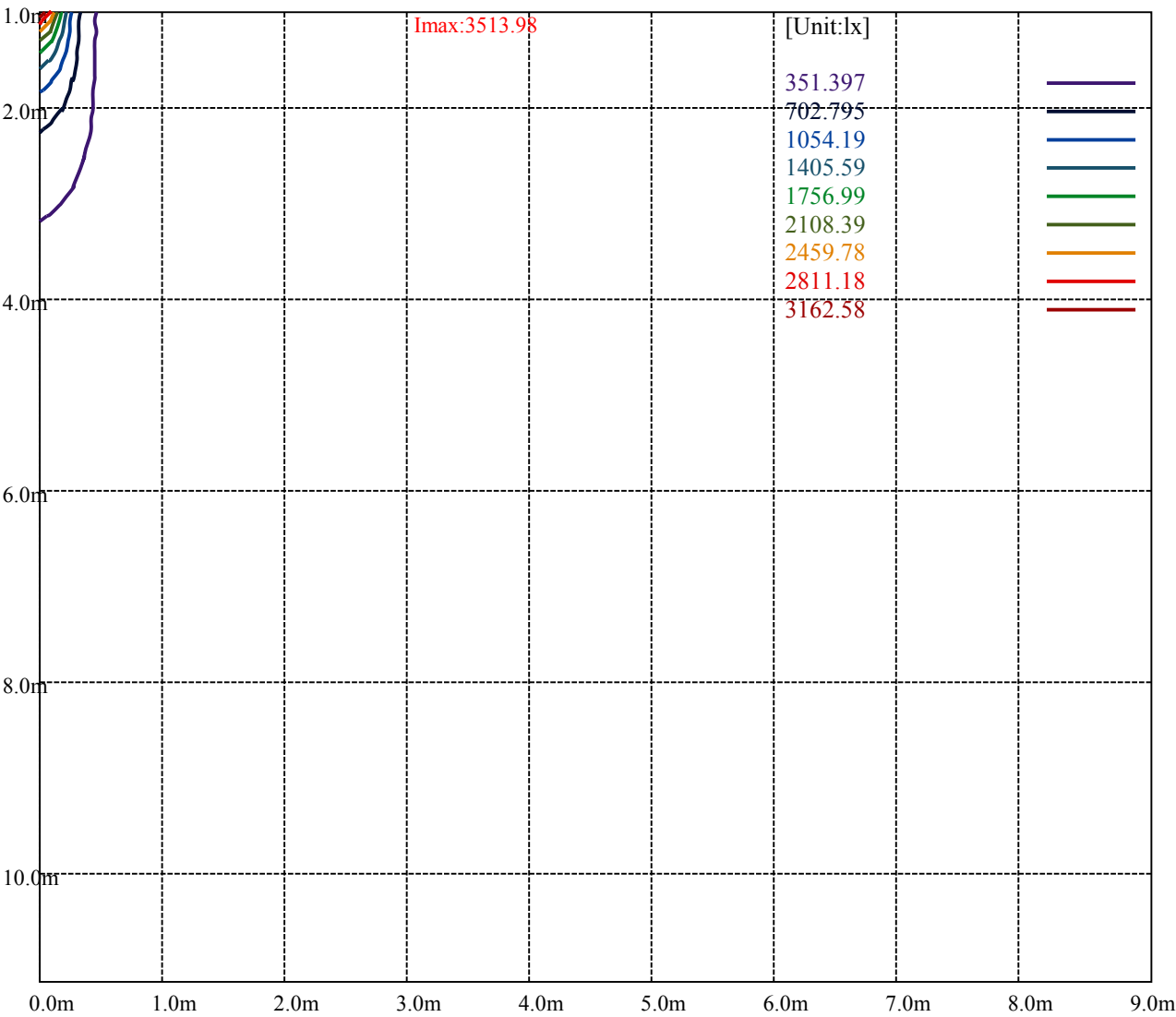
[Unit:cd]

Road

Imax:3513.98

(10%Imax)	351.397	—
(20%Imax)	702.795	—
(30%Imax)	1054.19	—
(40%Imax)	1405.59	—
(50%Imax)	1756.99	—
(60%Imax)	2108.39	—
(70%Imax)	2459.78	—
(80%Imax)	2811.18	—
(90%Imax)	3162.58	—





Luminance Table

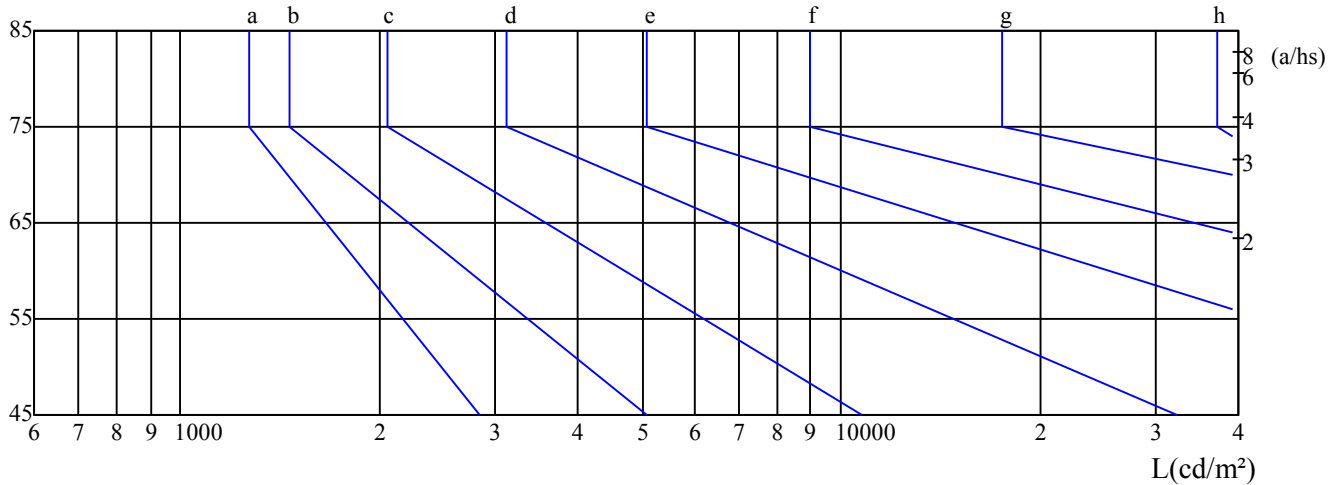
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

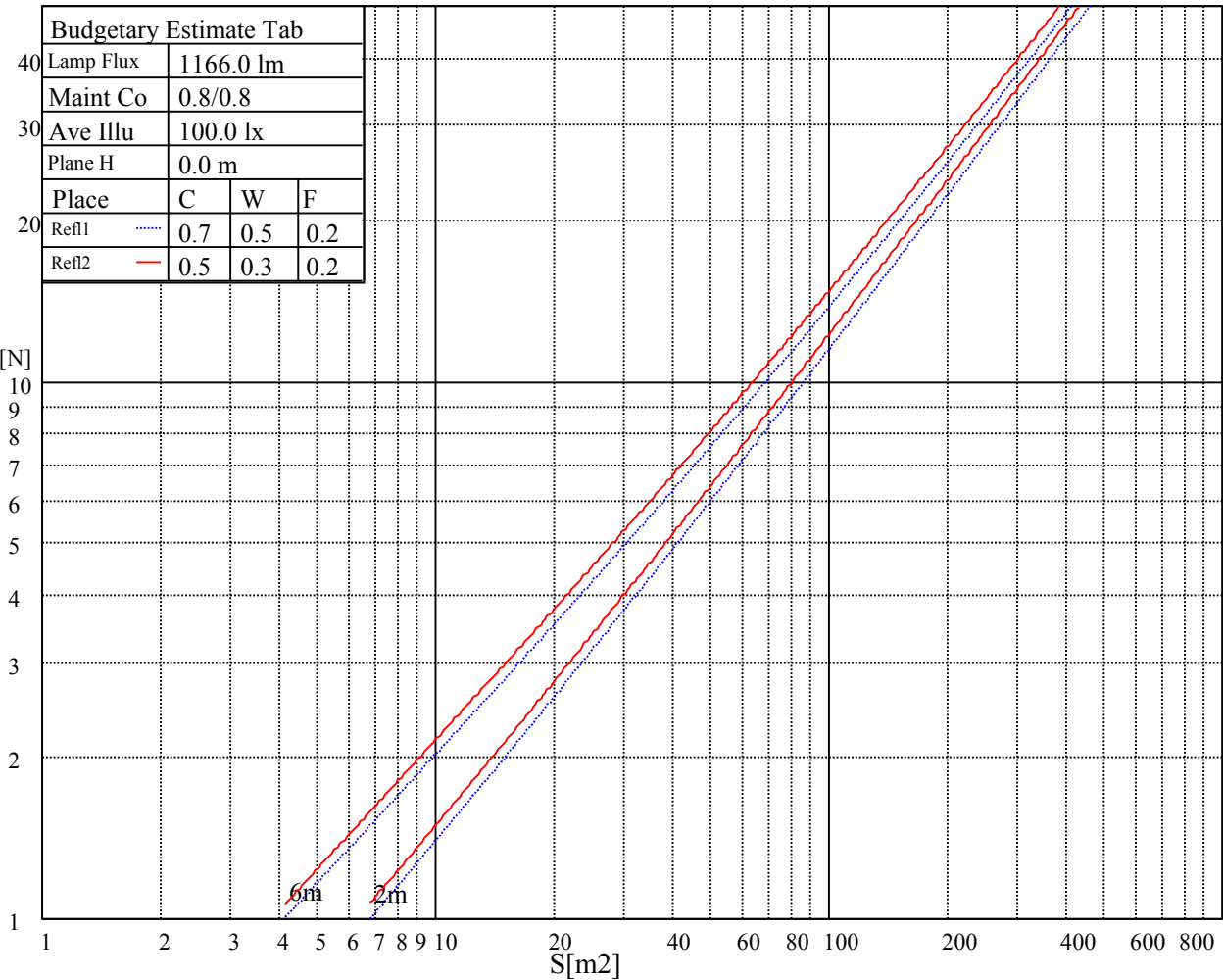
Luminance Limiting Curve

 $\gamma(^{\circ})$ 

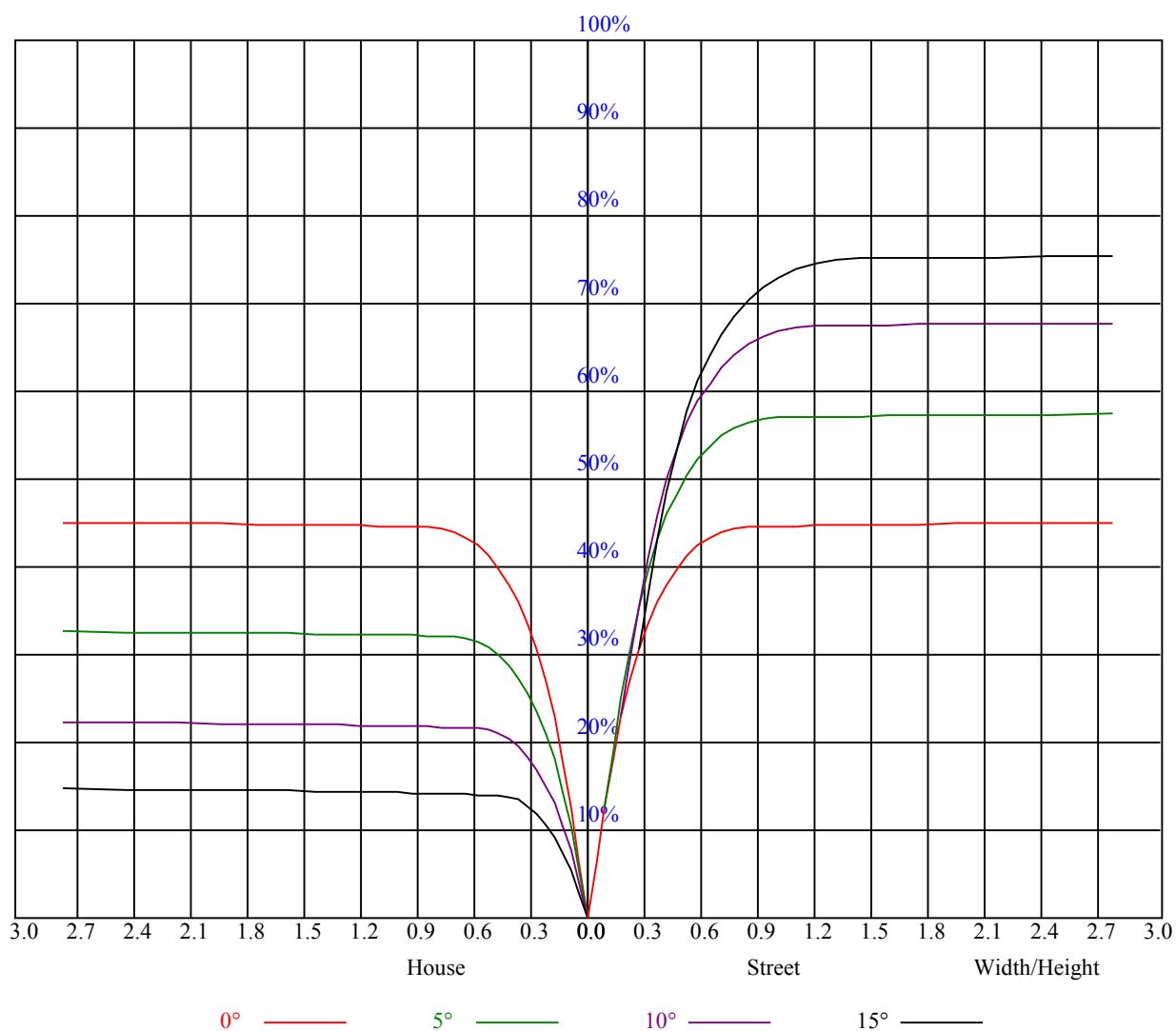
C0 ———

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	1.09	1.09	1.09	1.07	1.07	1.07	1.02	1.02	1.02	0.98	0.98	0.98	0.94	0.94	0.94	0.92
1	1.01	0.98	0.96	0.99	0.96	0.94	0.95	0.93	0.91	0.91	0.90	0.89	0.88	0.87	0.86	0.84
2	0.95	0.92	0.89	0.94	0.90	0.88	0.91	0.88	0.86	0.88	0.86	0.84	0.85	0.84	0.82	0.81
3	0.91	0.86	0.83	0.89	0.85	0.82	0.87	0.84	0.81	0.85	0.82	0.80	0.83	0.81	0.79	0.77
4	0.86	0.82	0.79	0.85	0.81	0.78	0.83	0.80	0.77	0.82	0.79	0.76	0.80	0.78	0.76	0.74
5	0.83	0.78	0.75	0.82	0.78	0.75	0.80	0.77	0.74	0.79	0.76	0.73	0.78	0.75	0.73	0.71
6	0.79	0.75	0.72	0.79	0.74	0.71	0.77	0.74	0.71	0.76	0.73	0.70	0.75	0.72	0.70	0.69
7	0.76	0.72	0.69	0.76	0.72	0.69	0.75	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.68	0.66
8	0.74	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.66	0.71	0.68	0.65	0.64
9	0.71	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.63	0.69	0.65	0.63	0.62
10	0.69	0.65	0.62	0.68	0.64	0.62	0.68	0.64	0.62	0.67	0.64	0.61	0.67	0.64	0.61	0.60



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	3519.21	3101.88	2179.13	1342.83	817.04	559.37	430.54	290.70	12.61		
45.0	3540.13	2877.25	1999.65	1194.72	737.21	519.18	401.91	282.99	10.30		
90.0	3464.15	2677.94	1874.12	1075.53	677.14	487.96	381.27	111.82	8.64		
135.0	3532.42	2989.56	2111.41	1346.68	773.54	531.84	406.87	291.25	9.97		
180.0	3519.21	2927.90	2044.24	1088.52	765.56	521.33	399.87	235.42	10.85		
225.0	3540.13	3203.18	2247.40	1418.25	871.10	568.07	430.27	315.91	13.21		
270.0	3464.15	3283.01	2405.96	1582.32	955.23	612.78	464.68	358.42	23.67		
315.0	3532.42	3021.50	2129.03	1089.57	800.02	544.40	429.66	272.64	13.10		
360.0	3519.21	3101.88	2179.13	1342.83	817.04	559.37	430.54	290.70	12.61		
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0		
0.0	6.39	5.62	5.12	4.84	4.79	4.79	8.20	5.51	4.79		
45.0	6.06	5.40	5.07	4.84	4.73	4.79	8.09	4.79	4.73		
90.0	5.89	5.34	5.01	4.84	4.84	4.84	8.53	4.84	4.73		
135.0	6.11	5.45	5.07	4.90	4.79	4.79	5.07	4.96	4.79		
180.0	6.17	5.51	5.07	4.90	4.79	4.84	10.02	5.51	4.73		
225.0	6.55	5.67	5.18	4.90	4.79	4.84	5.40	8.31	4.79		
270.0	7.32	5.78	5.23	4.96	4.79	4.79	4.84	6.94	4.84		
315.0	6.50	5.56	5.12	4.90	4.79	4.84	8.20	4.79	4.73		
360.0	6.39	5.62	5.12	4.84	4.79	4.79	8.20	5.51	4.79		
C/γ(°)	90.0										
0.0	4.73										
45.0	4.68										
90.0	4.68										
135.0	4.73										
180.0	4.73										
225.0	4.68										
270.0	4.73										
315.0	4.73										
360.0	4.73										