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Nata

LumCAT: 1-0923-M
Luminaire: 92.70.123.00
Report No: NATA0100
Test No: GC2020021902
LampCAT: BRIDGELUX V6 HD
Lamp flux(lm): 1057.0
Number of Lamps: 1
Length(mm): 30
Phm Type: C

Voltage(V): 35.6500
Current(A): 0.3000
Power (W): 10.7000
PF: 0.0000
Ballast type: DC
Width(mm): 30
Height(mm): 28

Photometric Results

Lumens(lm): 834.34
Efficiency(%): 78.93%
Lumens(lm)/Power(W): 77.98
Central intensity(cd): 3921.188
Maximum intensity(cd): 3921.188
Angle of maximum intensity: $C=0.0$ $\gamma=0.0$
Beam Angle(50%Imax): [C0/180]Total=24.5
[C90/270]Total=24.5
Field angle(10%Imax): [C0/180]Total=46.1
[C90/270]Total=46.1
Maximum s/h(1/2): C0_180=0.42 C90_270=0.42
Maximum s/h(1/4): C0_180=0.42 C90_270=0.42
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 78.93%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.688%

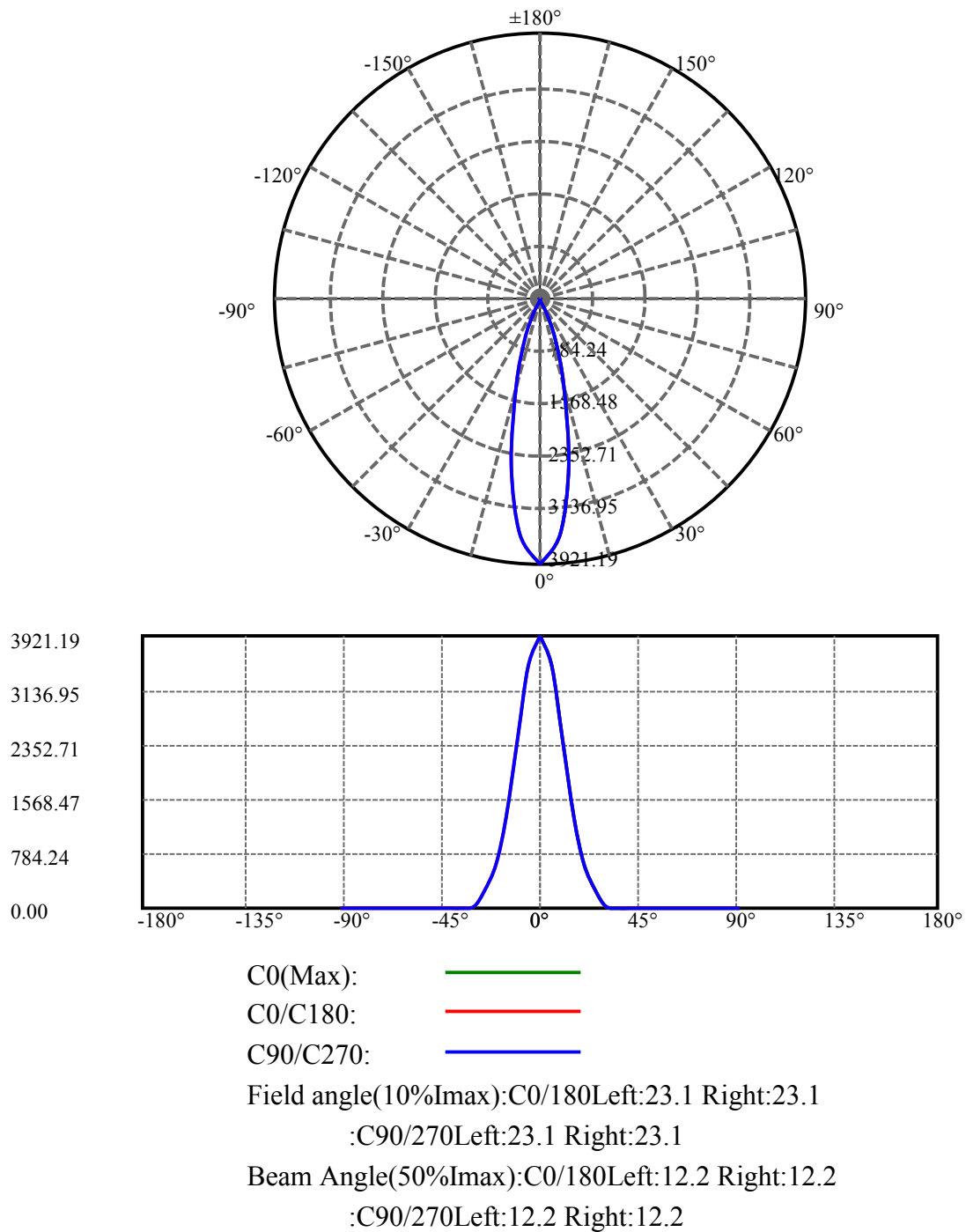
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3921.188	0.000	0	.000%	.000%
5.0	3480.680	88.487	88.487	8.372%	10.606%
10.0	2487.516	213.501	301.988	20.199%	36.195%
15.0	1313.972	225.502	527.49	21.334%	63.222%
20.0	639.506	160.994	688.484	15.231%	82.518%
25.0	234.710	91.689	780.173	8.674%	93.508%
30.0	16.509	31.792	811.965	3.008%	97.318%
35.0	5.520	3.244	815.209	.307%	97.707%
40.0	4.556	1.681	816.89	.159%	97.908%
45.0	4.071	1.597	818.488	.151%	98.100%
50.0	3.832	1.597	820.085	.151%	98.291%
55.0	3.677	1.633	821.717	.154%	98.487%
60.0	3.586	1.679	823.396	.159%	98.688%
65.0	3.523	1.728	825.124	.163%	98.895%
70.0	3.502	1.779	826.903	.168%	99.108%
75.0	3.473	1.823	828.726	.172%	99.327%
80.0	3.452	1.853	830.579	.175%	99.549%
85.0	3.459	1.878	832.457	.178%	99.774%
90.0	3.424	1.885	834.342	.178%	100.000%

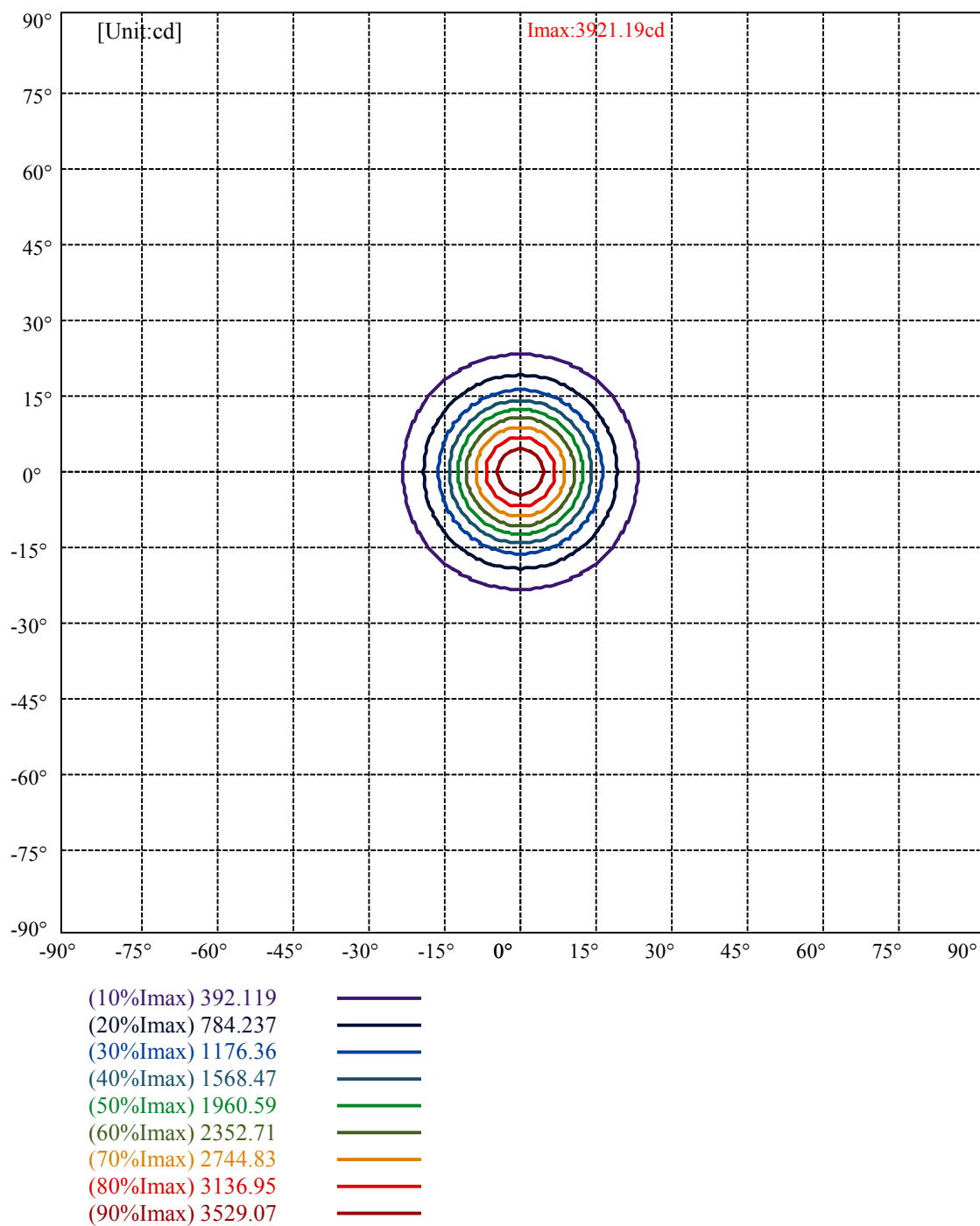
ZONAL LUMEN SUMMARY

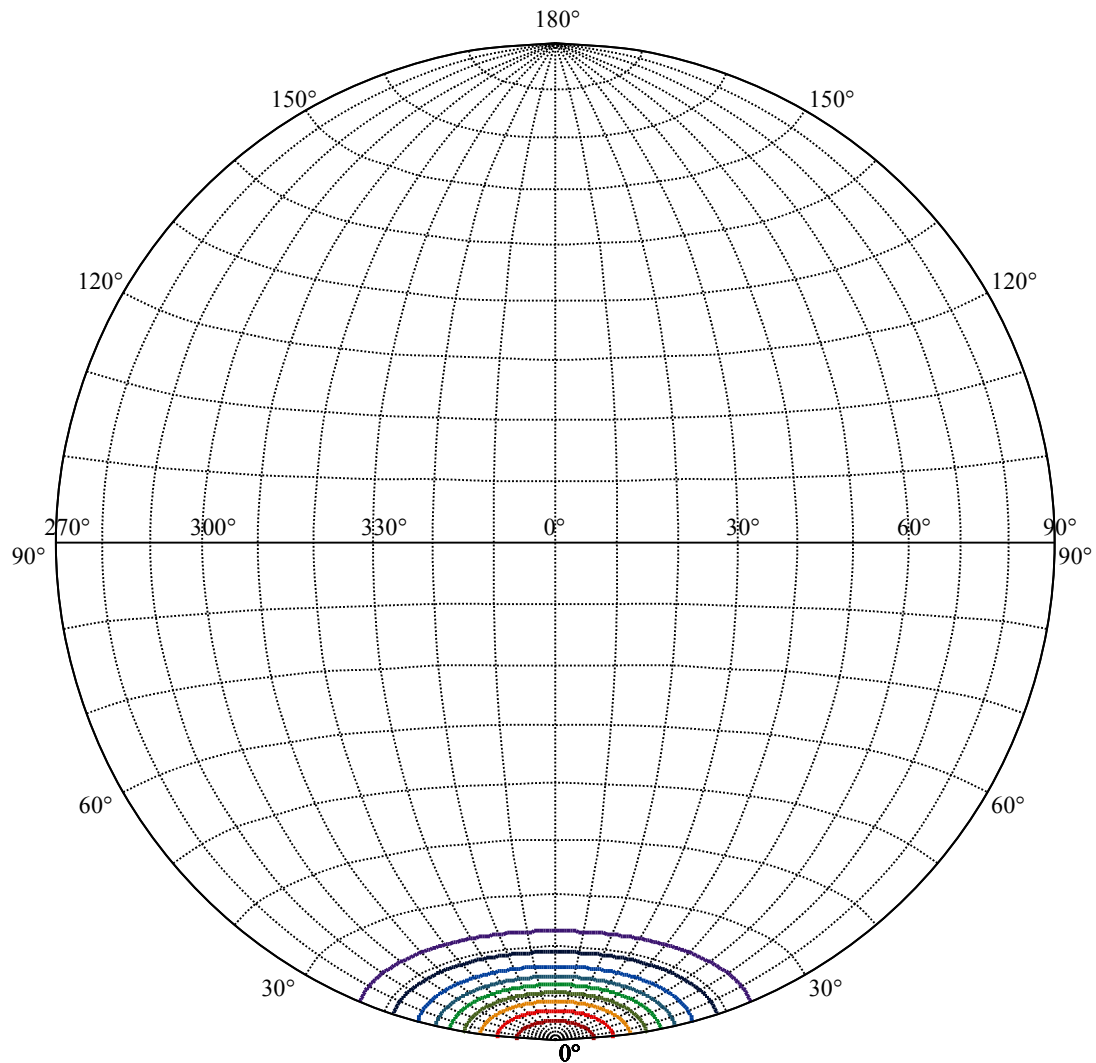
Zone	Lumens	%Lamp	%Fixt
0-30	811.97	76.82%	97.32%
0-40	816.89	77.28%	97.91%
0-60	823.40	77.90%	98.69%
0-90	832.46	78.76%	99.77%
0-120	832.46	78.76%	99.77%
0-180	834.34	78.93%	100.00%
60-90	10.74	1.02%	1.29%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-19.35	667.47	63.15%	80.00%

ZONAL LUMEN SUMMARY

0-10	301.99
10-20	386.50
20-30	123.48
30-40	4.92
40-50	3.19
50-60	3.31
60-70	3.51
70-80	3.68
80-90	1.88
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







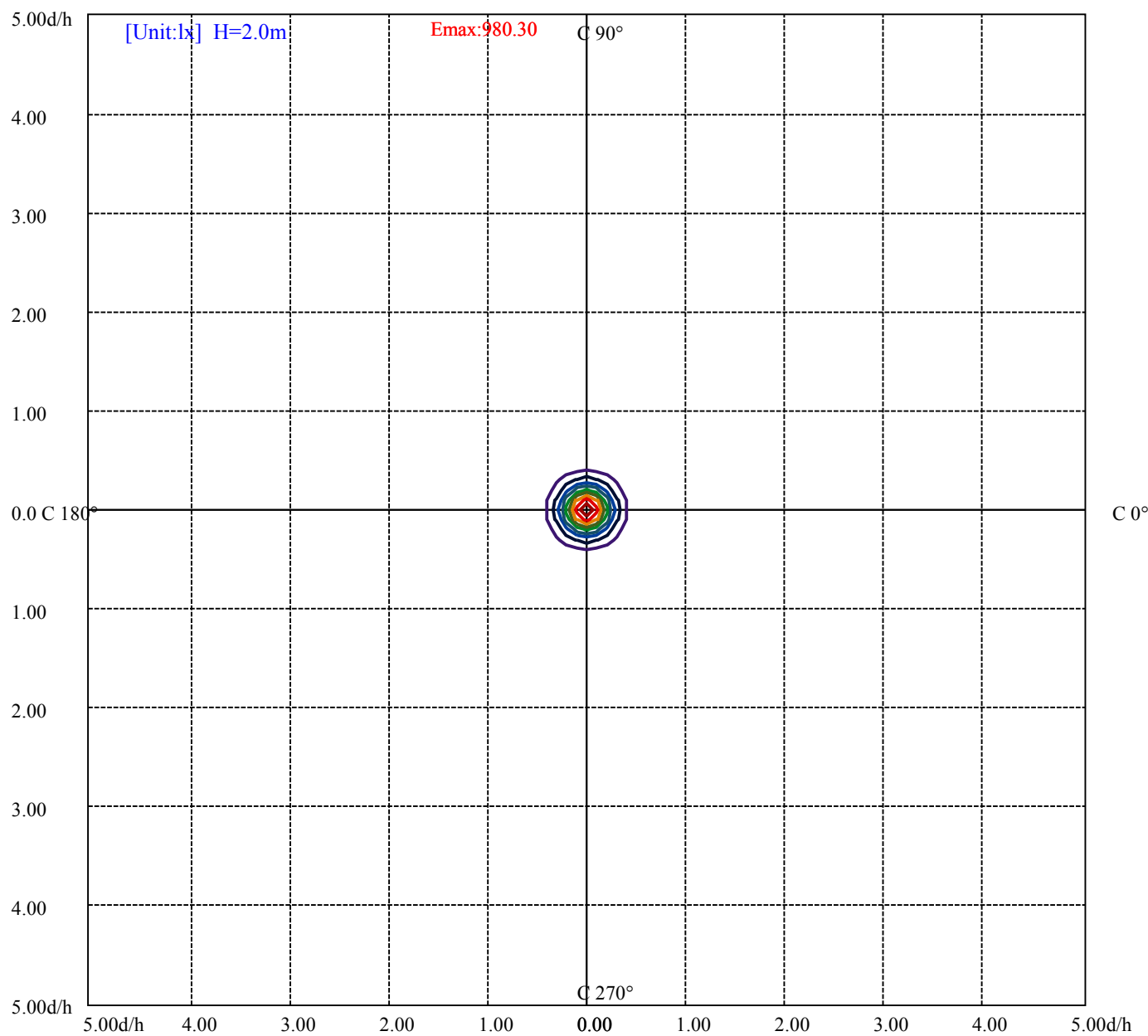
House

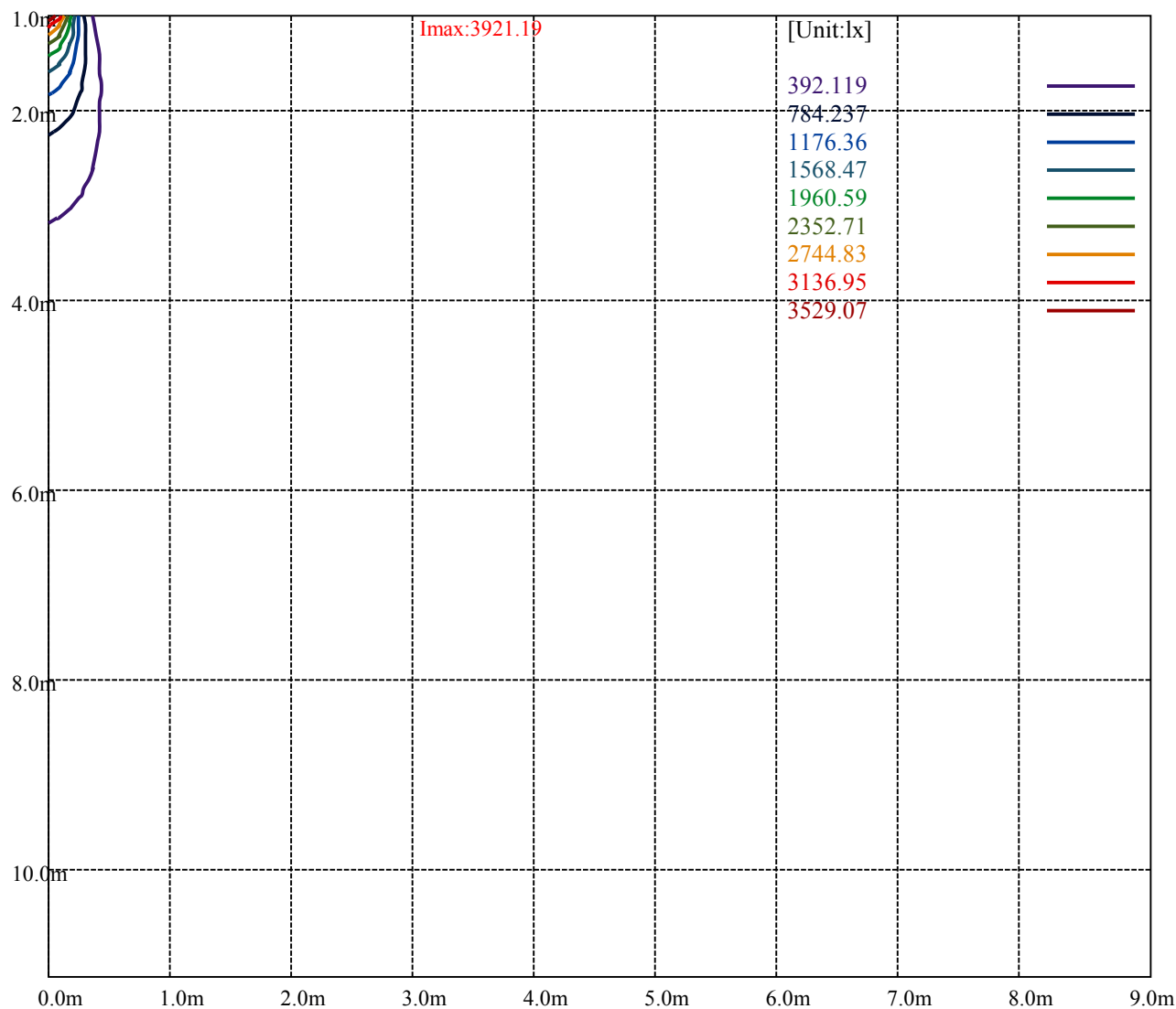
[Unit:cd]

Road

Imax:3921.19

(10%Imax)	392.119	
(20%Imax)	784.237	
(30%Imax)	1176.36	
(40%Imax)	1568.47	
(50%Imax)	1960.59	
(60%Imax)	2352.71	
(70%Imax)	2744.83	
(80%Imax)	3136.95	
(90%Imax)	3529.07	





Luminance Table

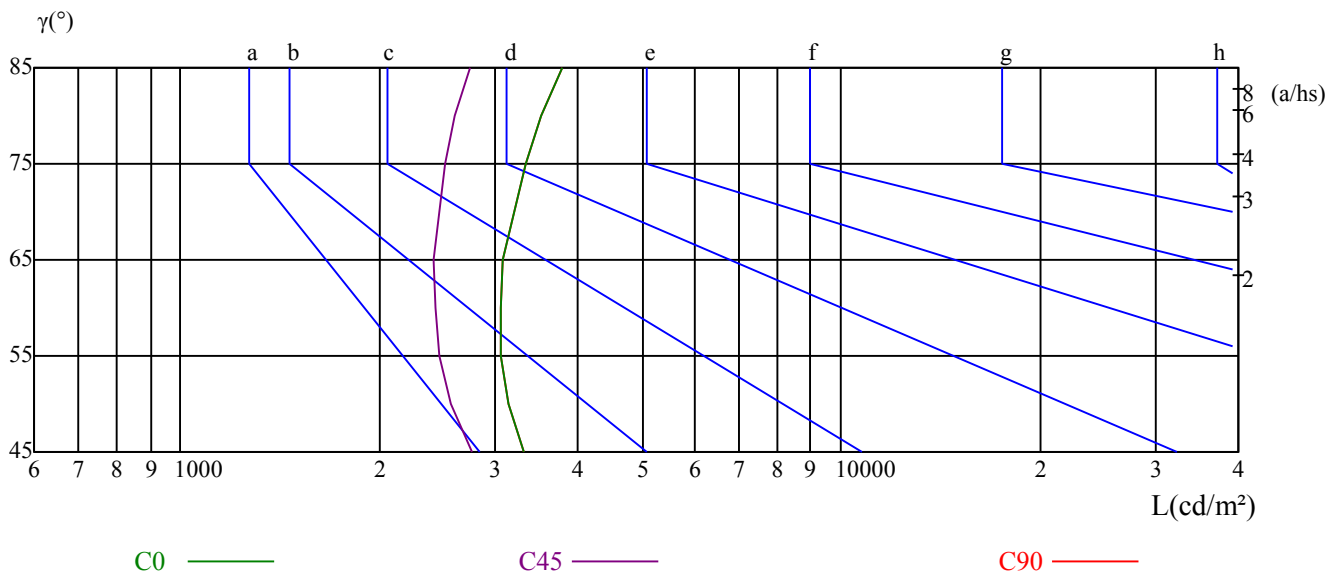
γ	45	50	55	60	65	70	75	80	85
C0	3309	3136	3053	3045	3086	3191	3326	3510	3780
C45	2757	2574	2469	2425	2418	2459	2516	2603	2741
C90	3309	3136	3053	3045	3086	3191	3326	3510	3780

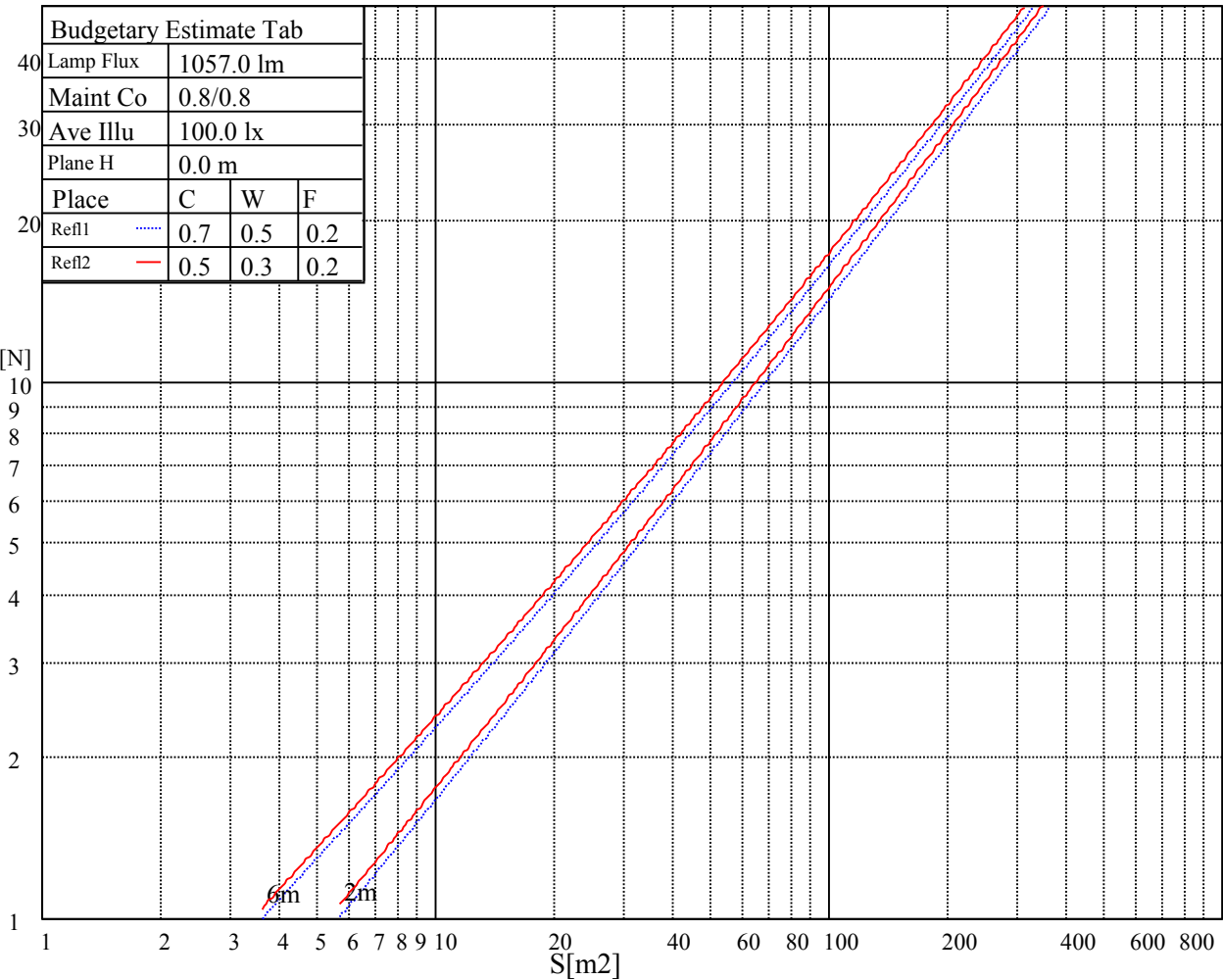
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
9261	9261	9261	14911	14911	14911	44102	44102	44102

Glare Table

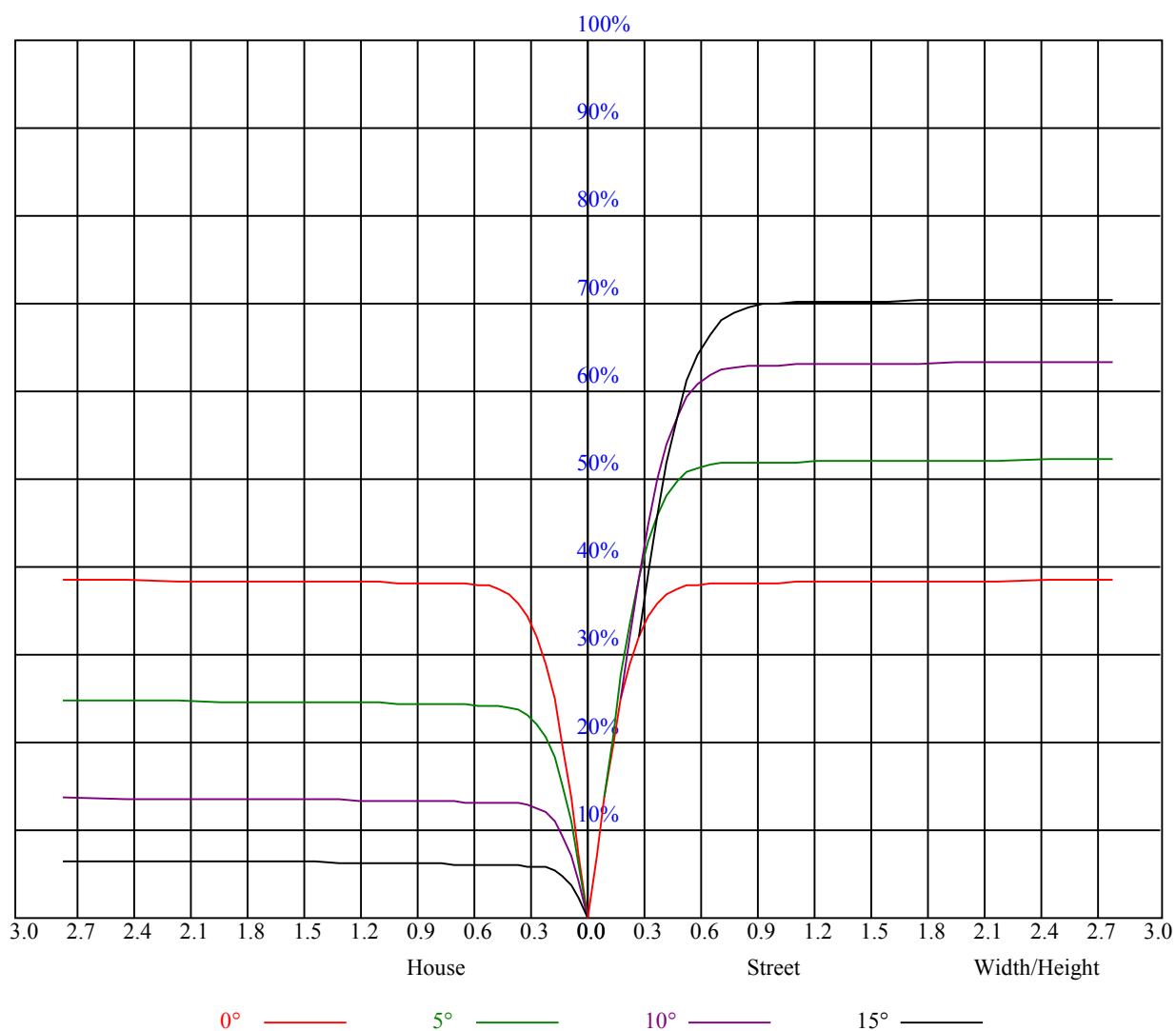
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

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	0.92	0.92	0.92	0.88	0.88	0.88	0.84	0.84	0.84	0.81	0.81	0.81	0.79
1	0.89	0.87	0.86	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.80	0.79	0.78	0.77	0.76
2	0.85	0.82	0.80	0.83	0.81	0.79	0.81	0.79	0.78	0.79	0.77	0.76	0.77	0.76	0.75	0.73
3	0.81	0.78	0.76	0.80	0.78	0.76	0.78	0.76	0.74	0.76	0.75	0.73	0.75	0.73	0.72	0.71
4	0.78	0.75	0.73	0.77	0.75	0.72	0.76	0.73	0.72	0.74	0.72	0.71	0.73	0.71	0.70	0.69
5	0.75	0.72	0.70	0.75	0.72	0.70	0.74	0.71	0.69	0.72	0.70	0.68	0.71	0.69	0.68	0.67
6	0.73	0.70	0.67	0.72	0.69	0.67	0.71	0.69	0.67	0.70	0.68	0.66	0.70	0.68	0.66	0.65
7	0.71	0.68	0.65	0.70	0.67	0.65	0.69	0.67	0.65	0.69	0.66	0.65	0.68	0.66	0.64	0.63
8	0.69	0.66	0.63	0.68	0.65	0.63	0.68	0.65	0.63	0.67	0.65	0.63	0.66	0.64	0.63	0.62
9	0.67	0.64	0.62	0.67	0.64	0.62	0.66	0.63	0.61	0.65	0.63	0.61	0.65	0.63	0.61	0.60
10	0.65	0.62	0.60	0.65	0.62	0.60	0.64	0.62	0.60	0.64	0.61	0.60	0.63	0.61	0.59	0.59



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	3896.44	3713.06	2857.50	1708.31	790.88	318.94	40.44	6.08	4.84		
45.0	3931.31	3605.63	2682.00	1477.69	725.63	300.38	20.76	5.68	4.67		
90.0	3920.63	3379.50	2322.56	1115.44	585.34	169.26	8.27	5.23	4.39		
135.0	3936.38	3481.31	2399.63	1363.50	615.38	286.31	11.14	5.29	4.44		
180.0	3896.44	3214.69	2094.19	1084.78	492.81	120.60	7.54	5.18	4.50		
225.0	3931.31	3360.38	2312.44	1096.76	569.87	159.98	8.83	5.40	4.50		
270.0	3920.63	3630.38	2656.69	1583.44	718.31	295.31	19.18	5.74	4.56		
315.0	3936.38	3460.50	2575.13	1081.86	617.85	226.91	15.92	5.57	4.56		
360.0	3896.44	3713.06	2857.50	1708.31	790.88	318.94	40.44	6.08	4.84		
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0		
0.0	4.22	3.94	3.71	3.66	3.60	3.54	3.49	3.49	3.49		
45.0	4.11	3.83	3.71	3.66	3.54	3.54	3.49	3.49	3.49		
90.0	4.05	3.83	3.66	3.54	3.49	3.49	3.38	3.43	3.43		
135.0	4.05	3.83	3.71	3.60	3.49	3.49	3.49	3.43	3.49		
180.0	4.05	3.83	3.66	3.54	3.54	3.49	3.49	3.49	3.49		
225.0	4.05	3.77	3.66	3.60	3.54	3.49	3.54	3.43	3.43		
270.0	4.05	3.83	3.66	3.54	3.49	3.49	3.43	3.43	3.43		
315.0	3.99	3.83	3.66	3.54	3.49	3.49	3.49	3.43	3.43		
360.0	4.22	3.94	3.71	3.66	3.60	3.54	3.49	3.49	3.49		
C/γ(°)	90.0										
0.0	3.49										
45.0	3.43										
90.0	3.43										
135.0	3.43										
180.0	3.43										
225.0	3.43										
270.0	3.38										
315.0	3.38										
360.0	3.49										