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Nata

LumCAT: 2-1794-N	
Luminaire: 99.02.73.172	
Report No: NATA0100	Voltage(V): 34.0000
Test No: GC2018072702	Current(A): 0.3100
LampCAT: BRIDGELUX V9 HD	Power (W): 10.5400
Lamp flux(lm): 1151.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 69	Width(mm): 69
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 987.31
Efficiency(%): 85.78%
Lumens(lm)/Power(W): 95.80
Central intensity(cd): 3897.855
Maximum intensity(cd): 3897.855
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=24.4
 [C90/270]Total=24.4
Field angle(10%Imax): [C0/180]Total=53.8
 [C90/270]Total=53.8
Maximum s/h(1/2): C0_180=0.41 C90_270=0.41
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(%): 87.72%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 95.967%

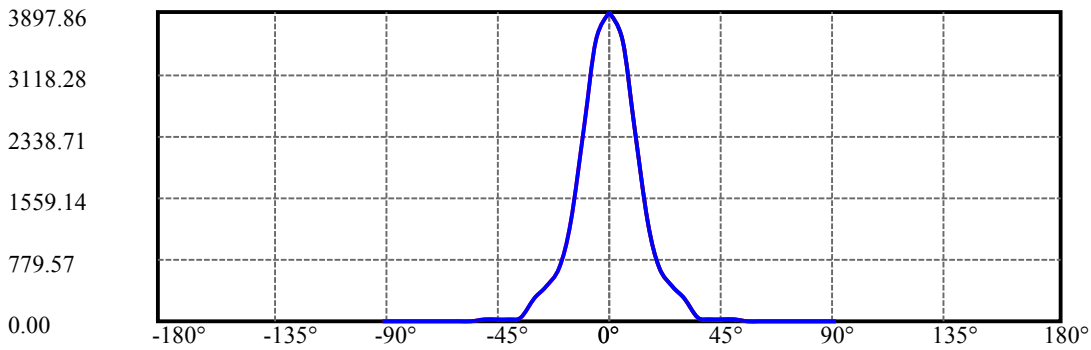
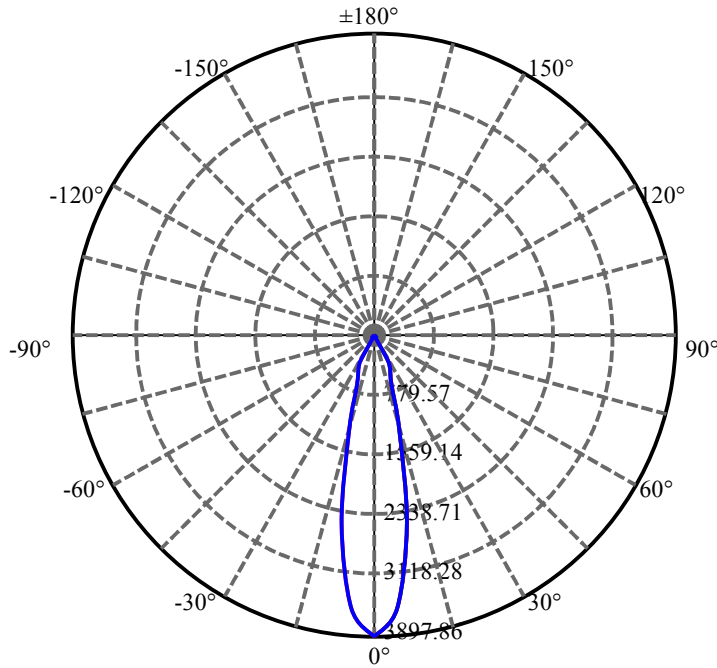
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3897.855	23.310	23.31	2.025%	2.361%
5.0	3538.475	169.045	192.355	14.687%	19.483%
10.0	2478.295	235.892	428.246	20.495%	43.375%
15.0	1266.187	179.632	607.878	15.607%	61.569%
20.0	681.206	127.708	735.587	11.095%	74.504%
25.0	443.658	102.775	838.361	8.929%	84.914%
30.0	301.193	82.548	920.909	7.172%	93.274%
35.0	59.461	18.694	939.603	1.624%	95.168%
40.0	24.197	8.526	948.129	.741%	96.031%
45.0	16.737	6.487	954.616	.564%	96.688%
50.0	12.794	5.372	959.988	.467%	97.233%
55.0	10.502	4.715	964.704	.410%	97.710%
60.0	8.974	4.260	968.964	.370%	98.142%
65.0	7.673	3.812	972.776	.331%	98.528%
70.0	6.916	3.563	976.338	.310%	98.889%
75.0	6.366	3.370	979.709	.293%	99.230%
80.0	5.905	3.187	982.896	.277%	99.553%
85.0	5.540	3.025	985.921	.263%	99.859%
90.0	5.072	1.390	987.312	.121%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	920.91	80.01%	93.27%
0-40	948.13	82.37%	96.03%
0-60	968.96	84.18%	98.14%
0-90	985.92	85.66%	99.86%
0-120	985.92	85.66%	99.86%
0-180	987.31	85.78%	100.00%
60-90	21.22	1.84%	2.15%
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%
0-22.64	789.85	68.62%	80.00%

ZONAL LUMEN SUMMARY

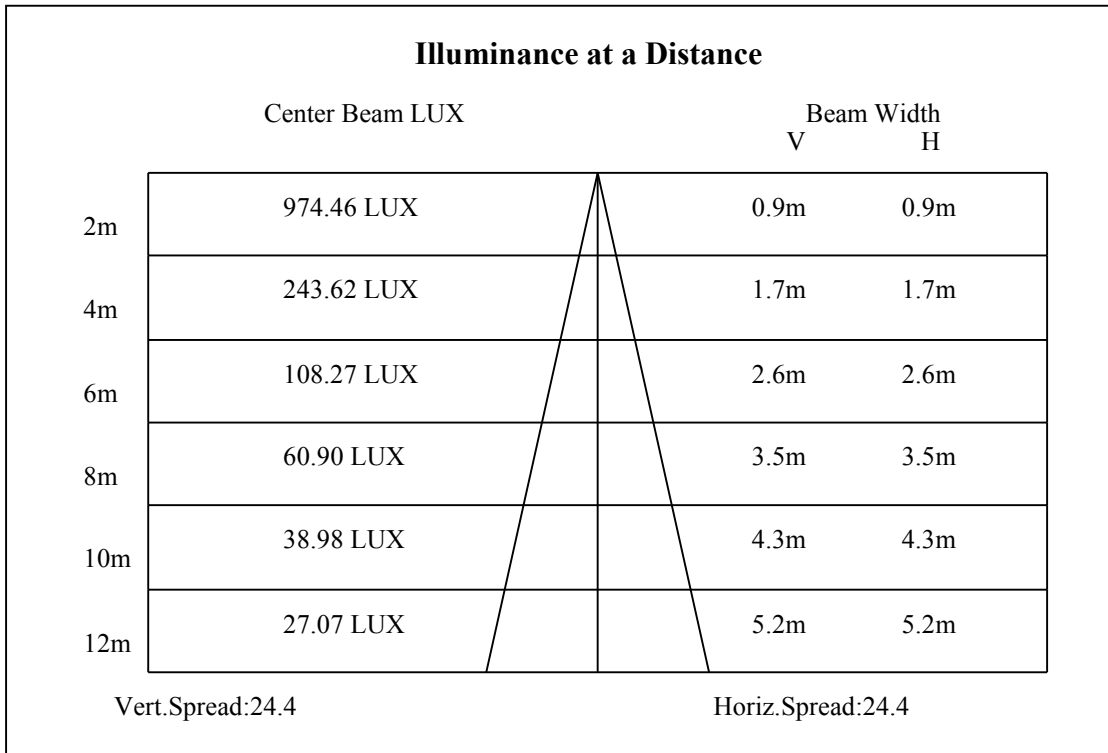
0-10	428.25
10-20	307.34
20-30	185.32
30-40	27.22
40-50	11.86
50-60	8.98
60-70	7.37
70-80	6.56
80-90	3.03
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

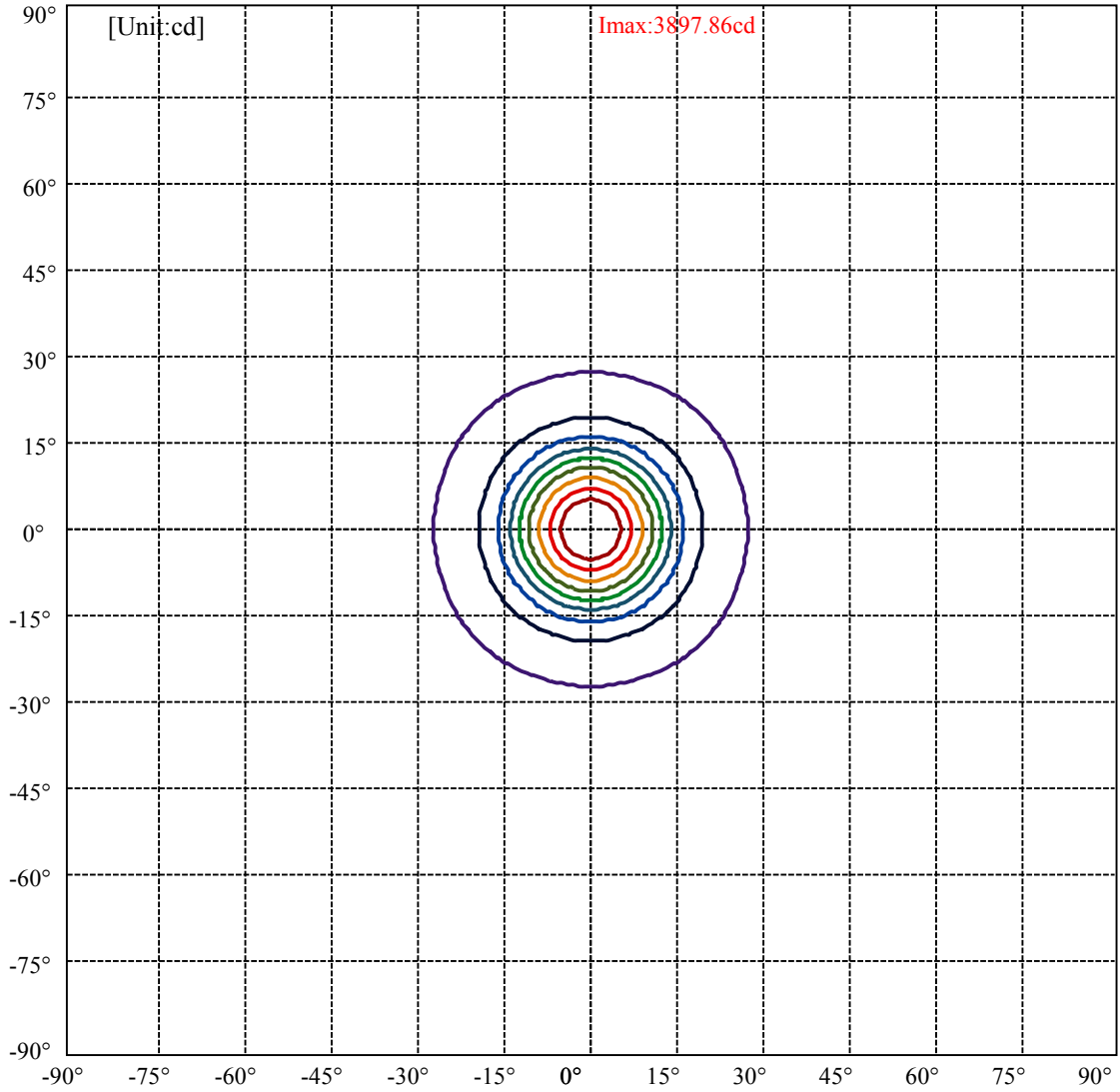


C0(Max): —————
 C0/C180: —————
 C90/C270: —————

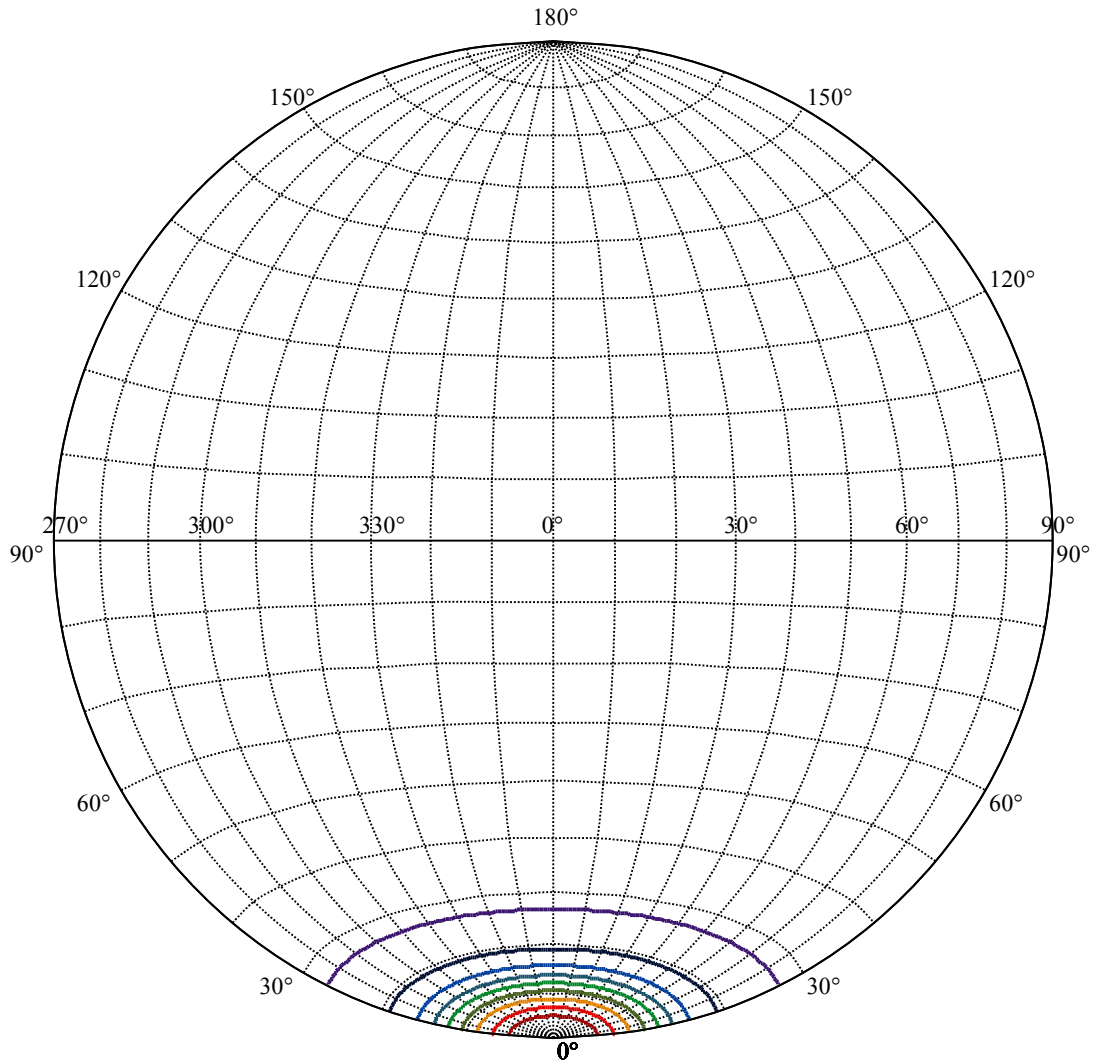
Field angle(10%Imax):C0/180Left:26.9 Right:26.9
 :C90/270Left:26.9 Right:26.9

Beam Angle(50%Imax):C0/180Left:12.2 Right:12.2
 :C90/270Left:12.2 Right:12.2





(10%Imax) 389.786	—
(20%Imax) 779.571	—
(30%Imax) 1169.36	—
(40%Imax) 1559.14	—
(50%Imax) 1948.93	—
(60%Imax) 2338.71	—
(70%Imax) 2728.5	—
(80%Imax) 3118.28	—
(90%Imax) 3508.07	—



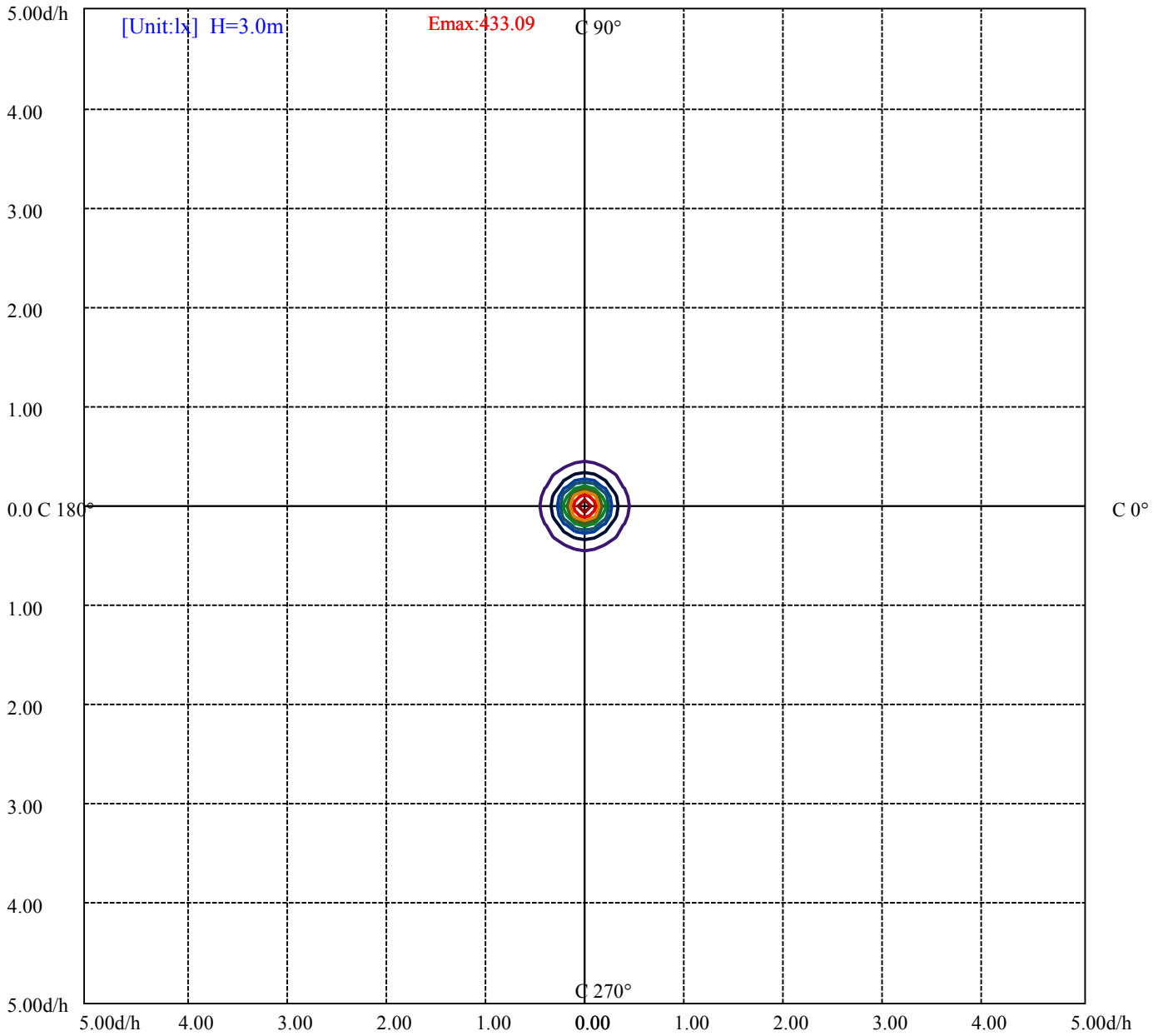
House

[Unit:cd]

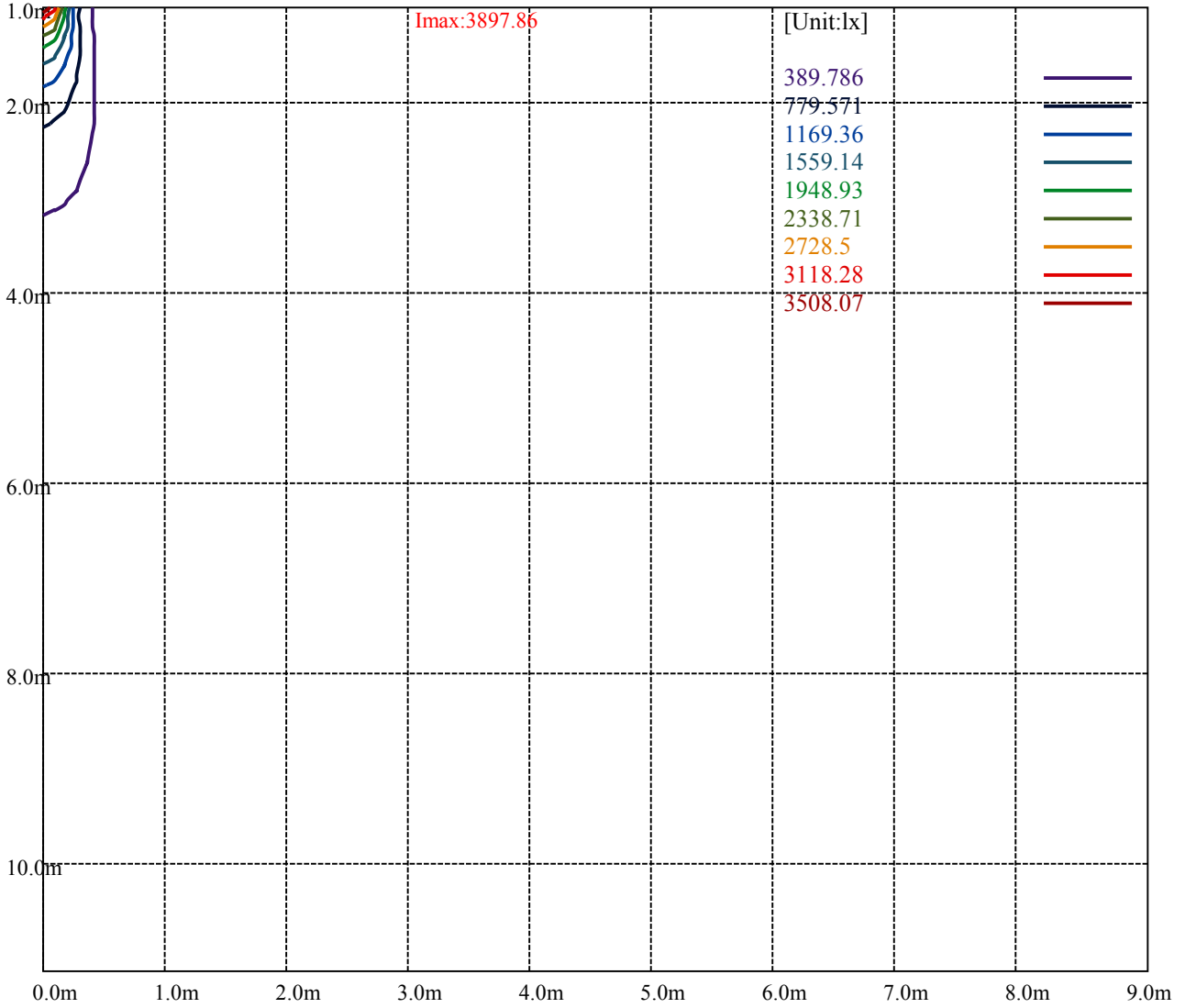
Road

Imax:3897.86

(10%Imax)	389.786	—
(20%Imax)	779.571	—
(30%Imax)	1169.36	—
(40%Imax)	1559.14	—
(50%Imax)	1948.93	—
(60%Imax)	2338.71	—
(70%Imax)	2728.5	—
(80%Imax)	3118.28	—
(90%Imax)	3508.07	—



(10%Emax) 43.30933	—
(20%Emax) 86.61877	—
(30%Emax) 129.9278	—
(40%Emax) 173.2378	—
(50%Emax) 216.5467	—
(60%Emax) 259.8567	—
(70%Emax) 303.1656	—
(80%Emax) 346.4756	—
(90%Emax) 389.7845	—



Luminance Table

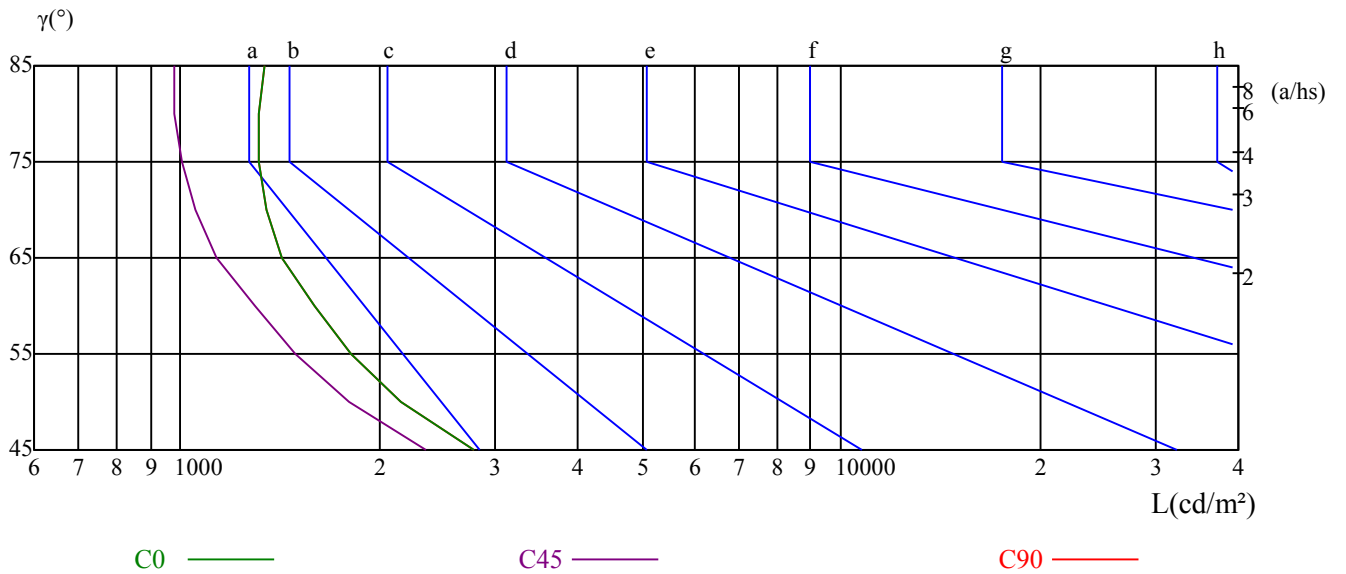
γ	45	50	55	60	65	70	75	80	85
C0	2789	2163	1816	1600	1424	1348	1318	1313	1342
C45	2360	1803	1490	1292	1130	1051	1007	982	978
C90	2789	2163	1816	1600	1424	1348	1318	1313	1342

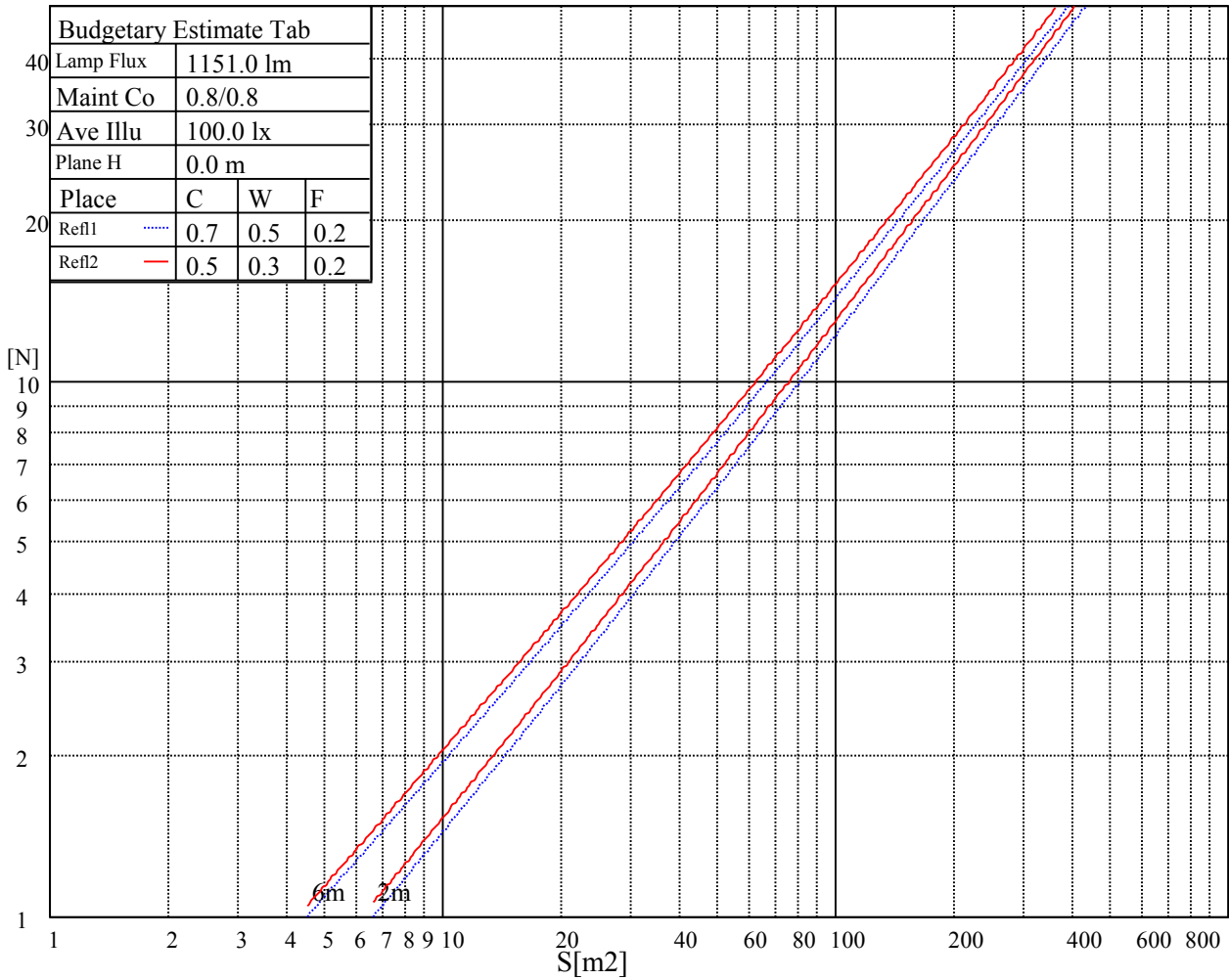
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
3814	3814	3814	5166	5166	5166	13351	13351	13351

Glare Table

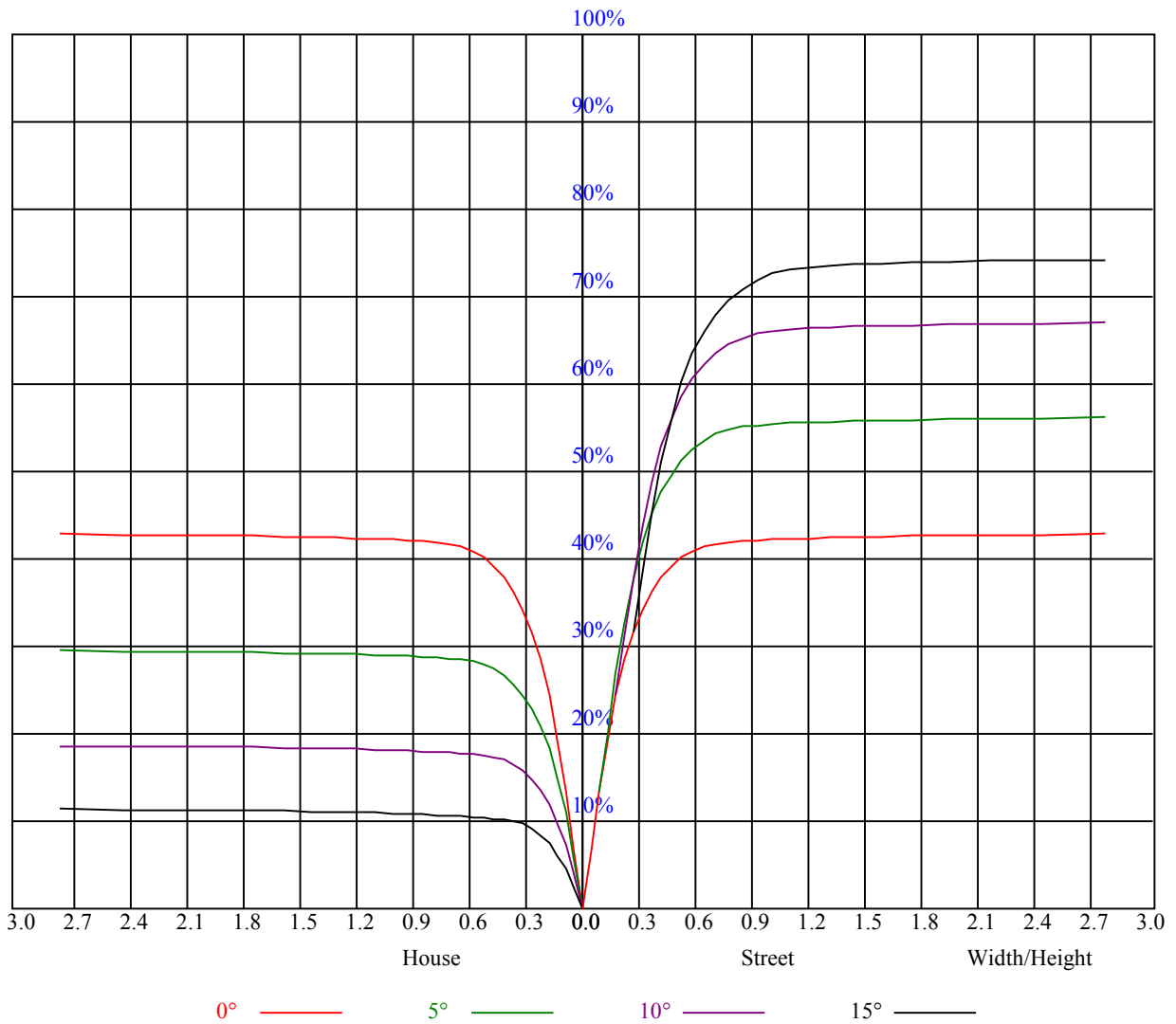
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	1.04	1.04	1.04	1.02	1.02	1.02	0.97	0.97	0.97	0.93	0.93	0.93	0.90	0.90	0.90	0.88
1	0.96	0.93	0.91	0.94	0.92	0.90	0.90	0.89	0.87	0.87	0.86	0.84	0.84	0.83	0.82	0.80
2	0.91	0.88	0.85	0.90	0.87	0.84	0.87	0.84	0.82	0.84	0.82	0.80	0.82	0.80	0.79	0.77
3	0.87	0.83	0.80	0.86	0.82	0.80	0.84	0.81	0.78	0.82	0.79	0.77	0.80	0.78	0.76	0.75
4	0.84	0.79	0.76	0.83	0.79	0.76	0.81	0.78	0.75	0.79	0.76	0.74	0.78	0.75	0.73	0.72
5	0.80	0.76	0.73	0.80	0.76	0.73	0.78	0.75	0.72	0.77	0.74	0.72	0.76	0.73	0.71	0.70
6	0.78	0.74	0.71	0.77	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.70	0.74	0.71	0.69	0.68
7	0.75	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.67	0.72	0.69	0.67	0.66
8	0.73	0.69	0.66	0.72	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.66	0.70	0.67	0.65	0.64
9	0.71	0.67	0.64	0.70	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.64	0.68	0.66	0.64	0.63
10	0.69	0.65	0.63	0.69	0.65	0.63	0.68	0.65	0.63	0.67	0.64	0.62	0.67	0.64	0.62	0.61



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	3939.84	3622.71	2566.18	1409.99	709.68	462.47	334.19	40.47	25.11
45.0	3900.20	3270.90	2055.81	1022.40	588.55	426.69	286.84	35.57	23.40
90.0	3849.54	3112.34	1821.82	865.93	454.66	369.76	101.19	27.80	19.82
135.0	3901.85	3490.03	2333.84	1238.77	617.73	416.78	291.80	34.13	21.36
180.0	3939.84	3500.49	2503.41	1059.40	611.51	433.13	290.31	35.46	22.57
225.0	3900.20	3834.13	2878.90	1595.53	812.69	469.74	366.46	62.60	24.78
270.0	3849.54	3836.33	3064.44	1867.51	955.23	519.73	404.66	190.61	30.12
315.0	3901.85	3640.88	2601.97	1069.97	699.60	450.97	334.08	49.06	26.43
360.0	3939.84	3622.71	2566.18	1409.99	709.68	462.47	334.19	40.47	25.11

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	17.73	13.21	10.68	9.14	7.71	6.94	6.39	5.95	5.56
45.0	16.46	12.99	10.57	8.81	7.60	6.88	6.33	5.84	5.62
90.0	14.37	11.51	9.86	8.31	7.38	6.66	6.17	5.73	5.51
135.0	15.14	12.17	10.30	8.81	7.71	6.99	6.44	6.00	5.67
180.0	16.08	12.50	10.46	9.14	7.93	7.27	6.66	6.11	5.73
225.0	16.63	12.55	10.08	8.81	7.60	6.83	6.28	5.84	5.40
270.0	19.38	13.98	10.90	9.47	7.93	6.99	6.39	6.00	5.45
315.0	18.11	13.43	11.18	9.30	7.54	6.77	6.28	5.78	5.40
360.0	17.73	13.21	10.68	9.14	7.71	6.94	6.39	5.95	5.56

C/γ(°)	90.0
0.0	5.18
45.0	4.96
90.0	5.01
135.0	5.07
180.0	5.18
225.0	5.07
270.0	5.07
315.0	5.07
360.0	5.18