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Nata

LumCAT: 3-1544-E	
Luminaire: 92.76.263.00	
Report No: NATA0100	Voltage(V): 30.0000
Test No: 2017011907	Current(A): 0.9500
LampCAT: BRIDGELUX VERO 18	Power (W): 28.5000
Lamp flux(lm): 3743.0	PF: 0.0000
Number of Lamps: 1	Ballast type:
Length(mm): 88	Width(mm): 88
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 3403.78
Efficiency(%): 90.94%
Lumens(lm)/Power(W): 120.13
Central intensity(cd): 3896.617
Maximum intensity(cd): 3896.617
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=56.8
 [C90/270]Total=56.8
Field angle(10%Imax): [C0/180]Total=85.1
 [C90/270]Total=85.1
Maximum s/h(1/2): C0_180=0.89 C90_270=0.89
Maximum s/h(1/4): C0_180=0.87 C90_270=0.87
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 91.47%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.056%

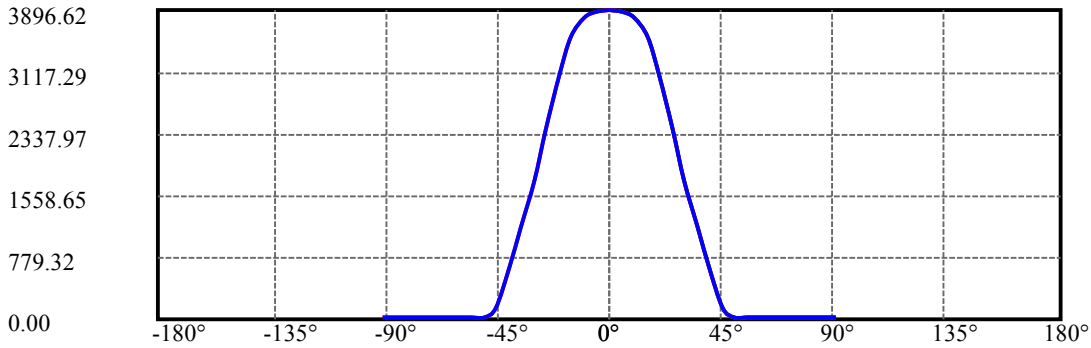
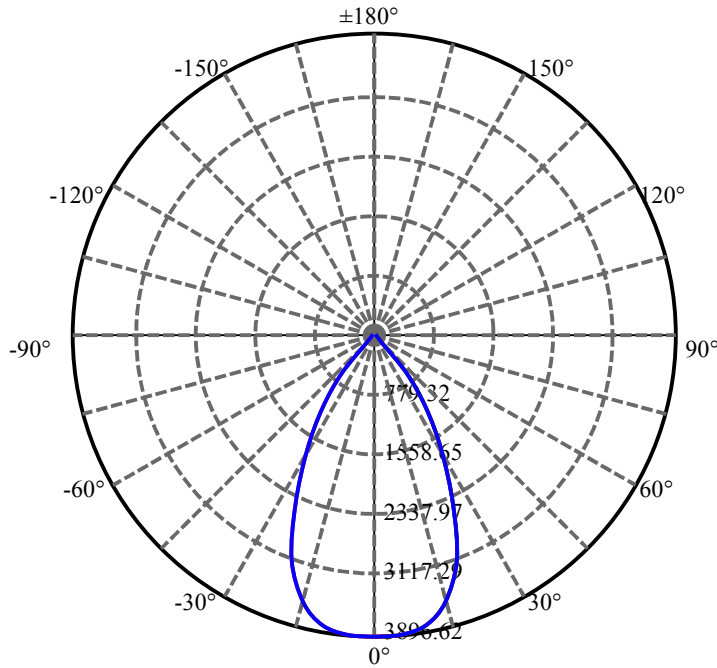
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3896.617	23.303	23.303	.623%	.685%
5.0	3876.108	185.175	208.477	4.947%	6.125%
10.0	3807.081	362.370	570.847	9.681%	16.771%
15.0	3566.760	506.011	1076.857	13.519%	31.637%
20.0	3084.810	578.322	1655.179	15.451%	48.628%
25.0	2403.350	556.743	2211.922	14.874%	64.984%
30.0	1732.625	474.858	2686.78	12.687%	78.935%
35.0	1158.745	364.308	3051.088	9.733%	89.638%
40.0	645.330	227.373	3278.461	6.075%	96.318%
45.0	147.124	57.024	3335.485	1.523%	97.994%
50.0	17.425	7.317	3342.802	.195%	98.209%
55.0	15.863	7.123	3349.924	.190%	98.418%
60.0	15.491	7.354	3357.278	.196%	98.634%
65.0	15.450	7.675	3364.954	.205%	98.859%
70.0	15.574	8.022	3372.976	.214%	99.095%
75.0	16.166	8.559	3381.535	.229%	99.347%
80.0	16.785	9.061	3390.596	.242%	99.613%
85.0	16.833	9.192	3399.788	.246%	99.883%
90.0	14.556	3.989	3403.777	.107%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2686.78	71.78%	78.94%
0-40	3278.46	87.59%	96.32%
0-60	3357.28	89.69%	98.63%
0-90	3399.79	90.83%	99.88%
0-120	3399.79	90.83%	99.88%
0-180	3403.78	90.94%	100.00%
60-90	49.86	1.33%	1.46%
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%
0-30.50	2723.02	72.75%	80.00%

ZONAL LUMEN SUMMARY

0-10	570.85
10-20	1084.33
20-30	1031.60
30-40	591.68
40-50	64.34
50-60	14.48
60-70	15.70
70-80	17.62
80-90	9.19
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: ———

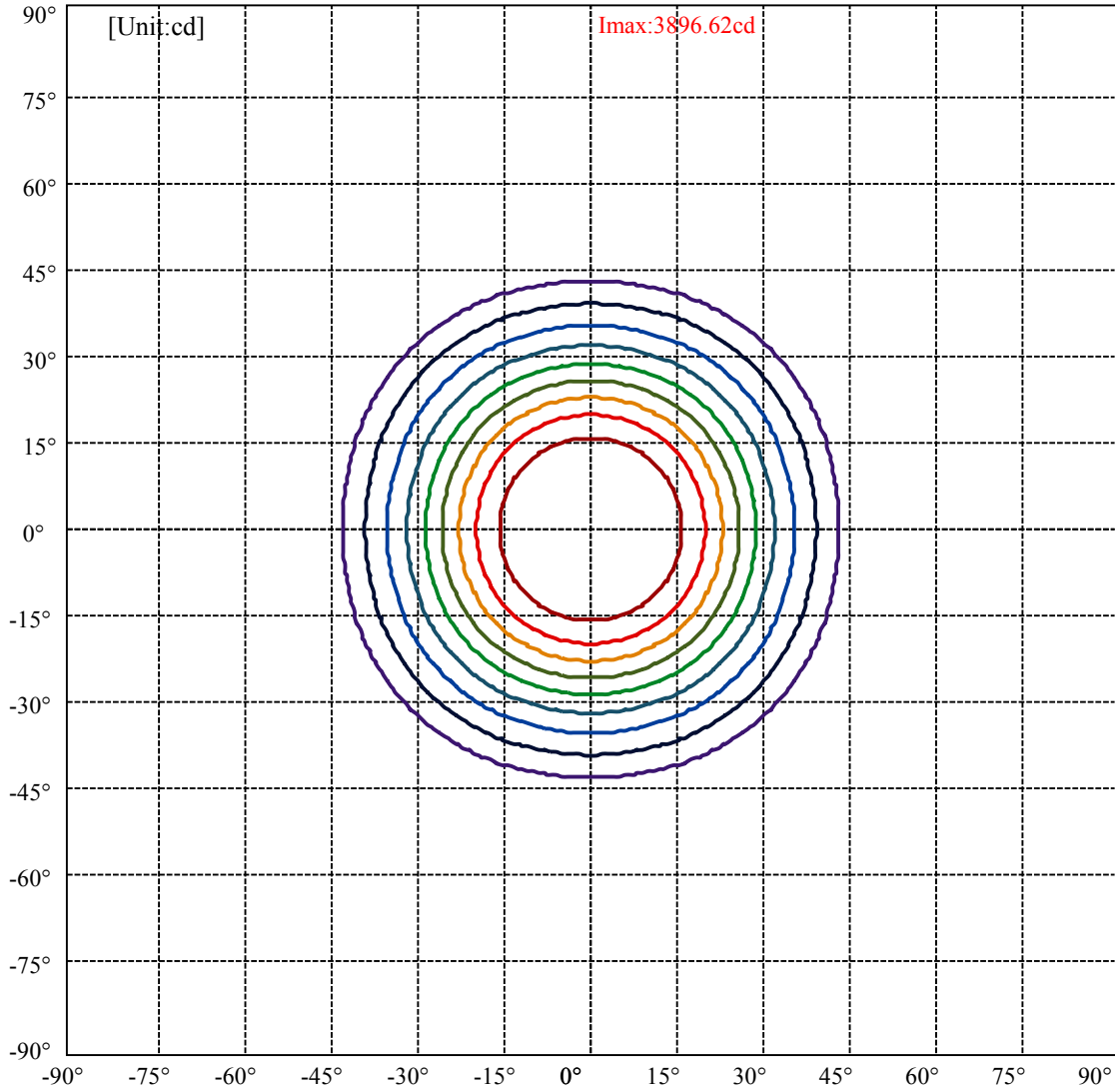
C90/C270: ———

Field angle(10%Imax):C0/180Left:42.6 Right:42.6

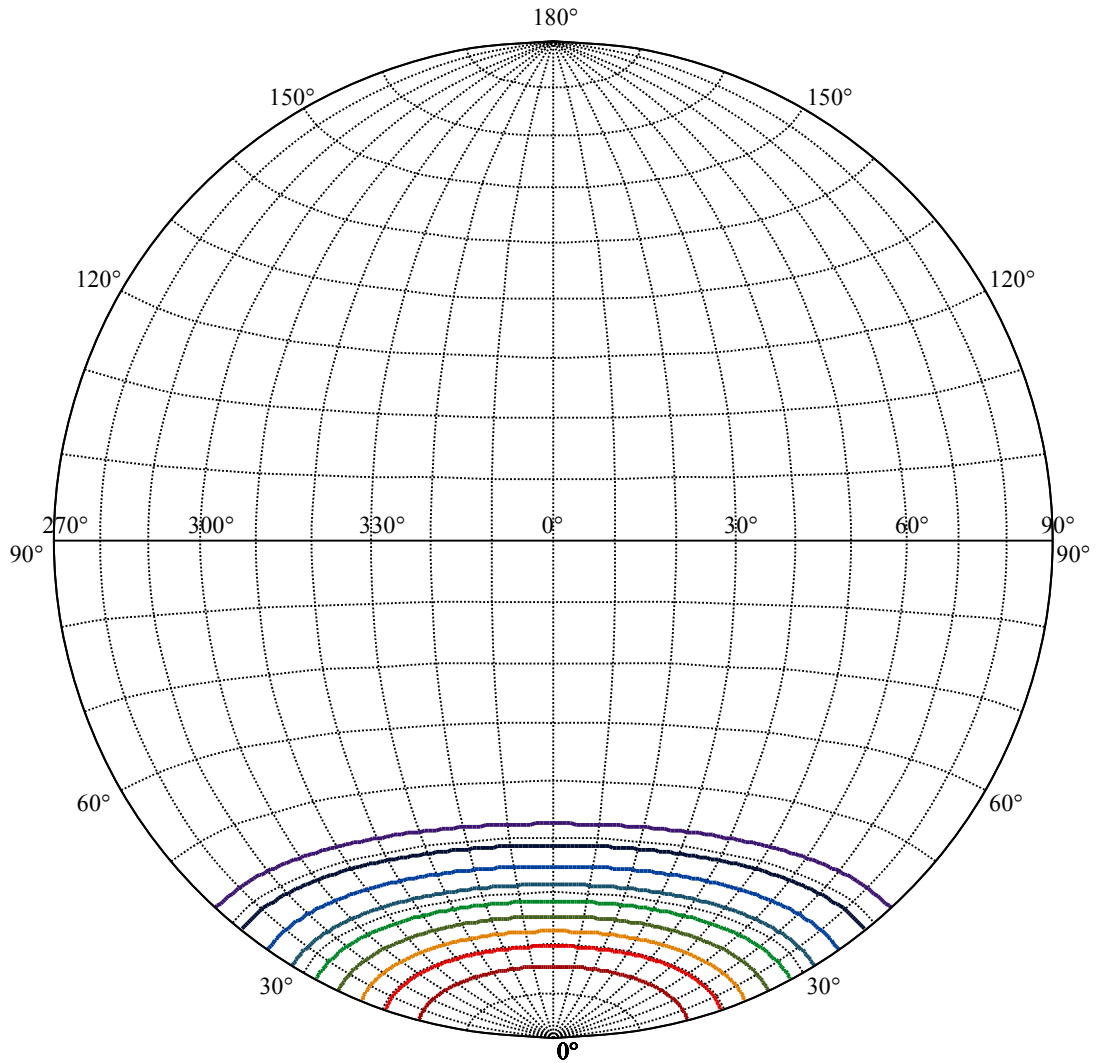
:C90/270Left:42.6 Right:42.6

Beam Angle(50%Imax):C0/180Left:28.4 Right:28.4

:C90/270Left:28.4 Right:28.4



(10%Imax) 389.662	—
(20%Imax) 779.323	—
(30%Imax) 1168.98	—
(40%Imax) 1558.65	—
(50%Imax) 1948.31	—
(60%Imax) 2337.97	—
(70%Imax) 2727.63	—
(80%Imax) 3117.29	—
(90%Imax) 3506.96	—












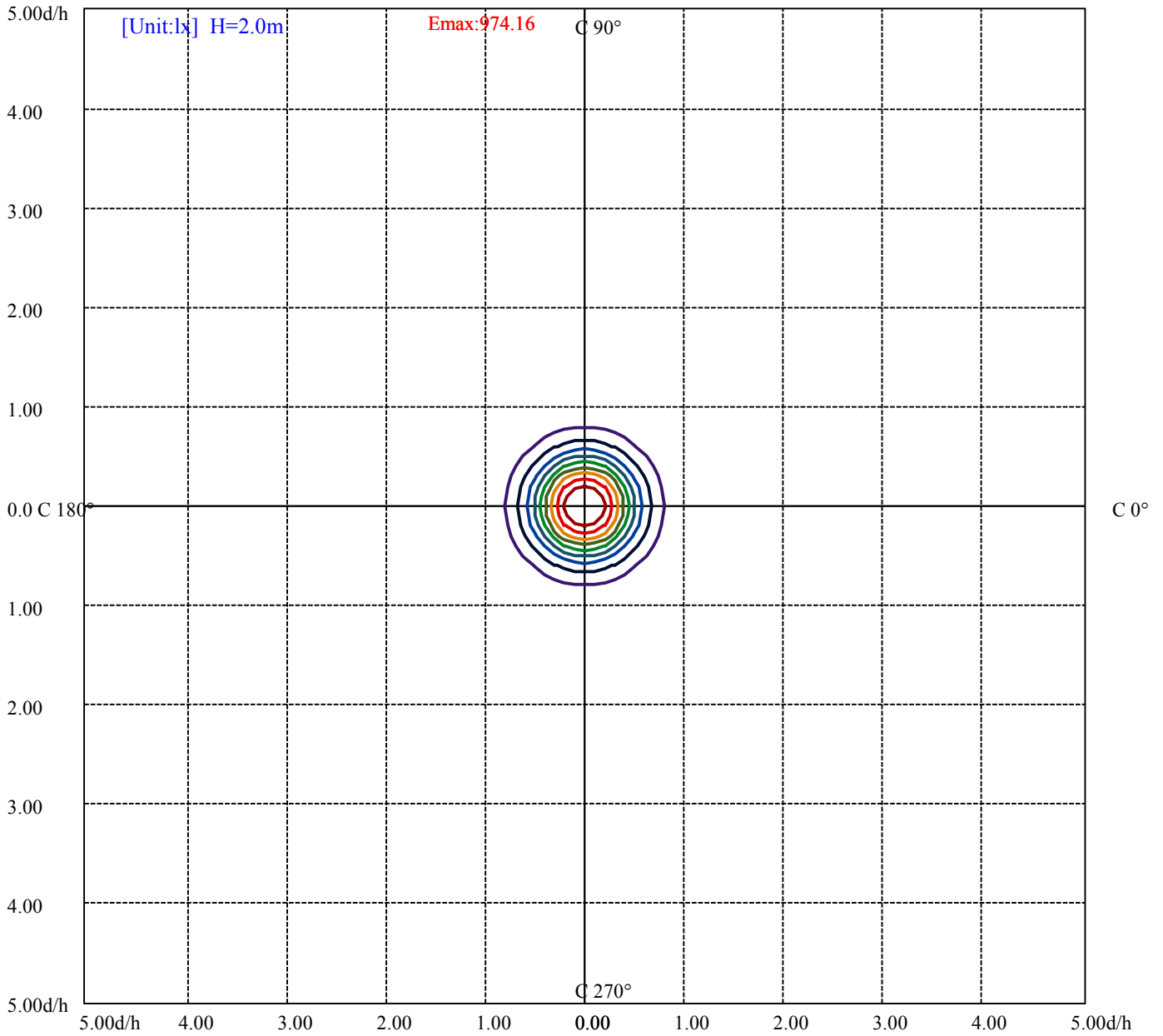
House

[Unit:cd]

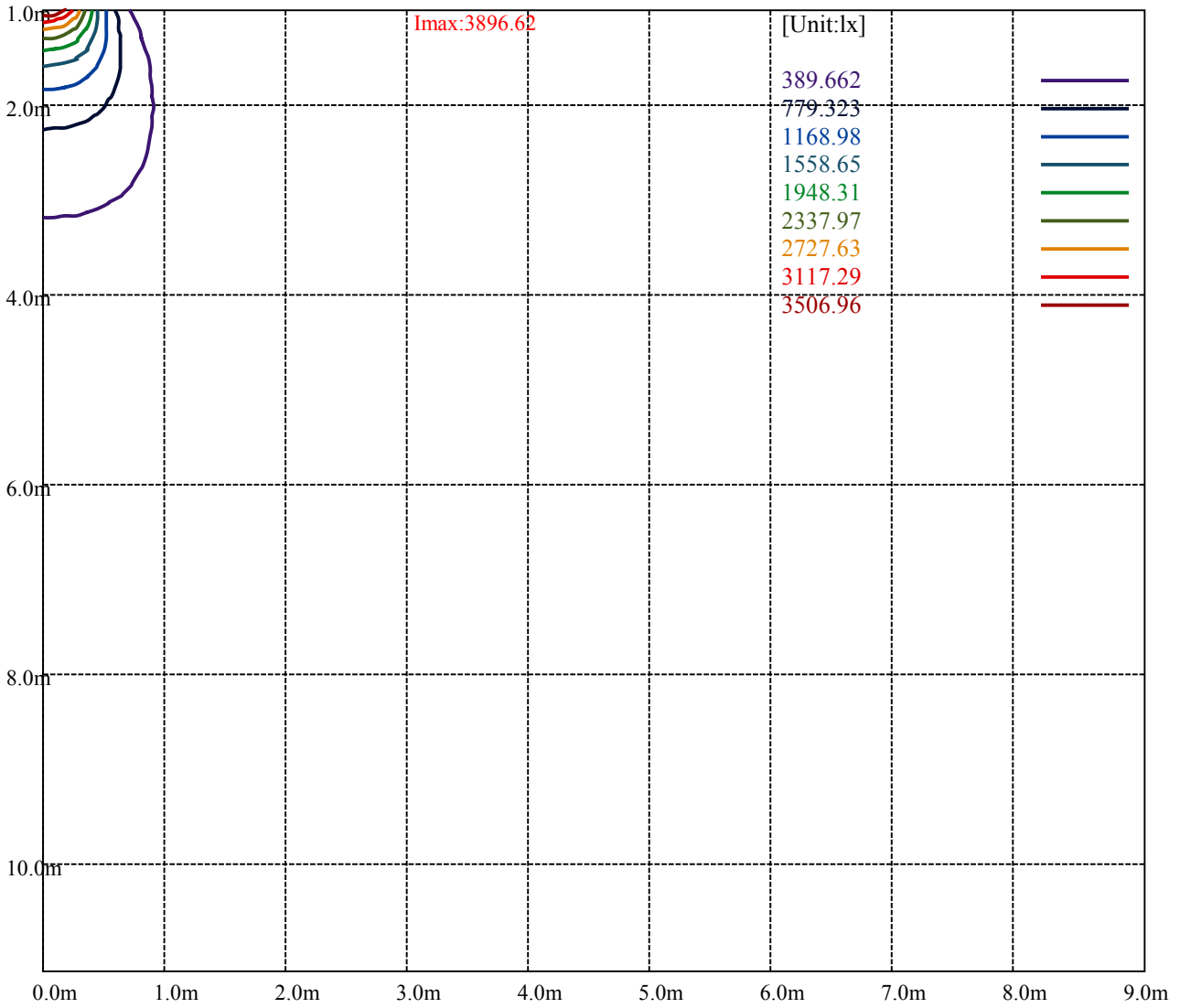
Road

Imax:3896.62

(10%Imax)	389.662	
(20%Imax)	779.323	
(30%Imax)	1168.98	
(40%Imax)	1558.65	
(50%Imax)	1948.31	
(60%Imax)	2337.97	
(70%Imax)	2727.63	
(80%Imax)	3117.29	
(90%Imax)	3506.96	



(10%Emax) 97.4155	—
(20%Emax) 194.8307	—
(30%Emax) 292.245	—
(40%Emax) 389.6625	—
(50%Emax) 487.0775	—
(60%Emax) 584.4925	—
(70%Emax) 681.9075	—
(80%Emax) 779.3225	—
(90%Emax) 876.7375	—



Luminance Table

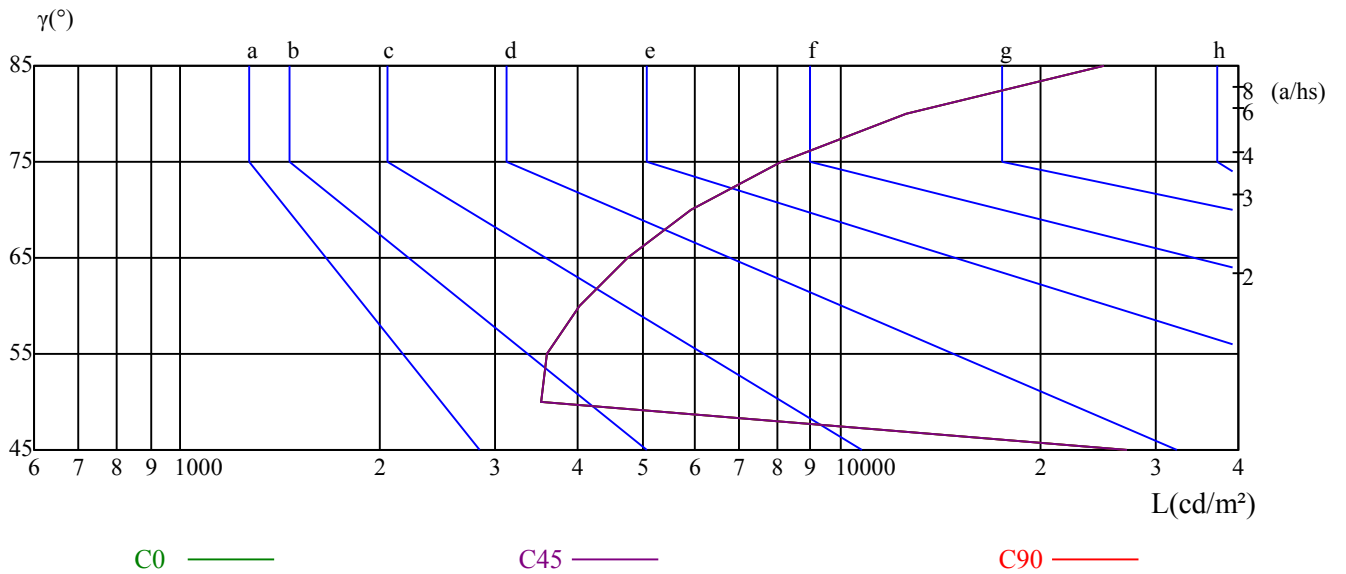
γ	45	50	55	60	65	70	75	80	85
C0	27052	3525	3596	4028	4753	5920	8121	12568	25112
C45	27052	3525	3596	4028	4753	5920	8121	12568	25112
C90	27052	3525	3596	4028	4753	5920	8121	12568	25112

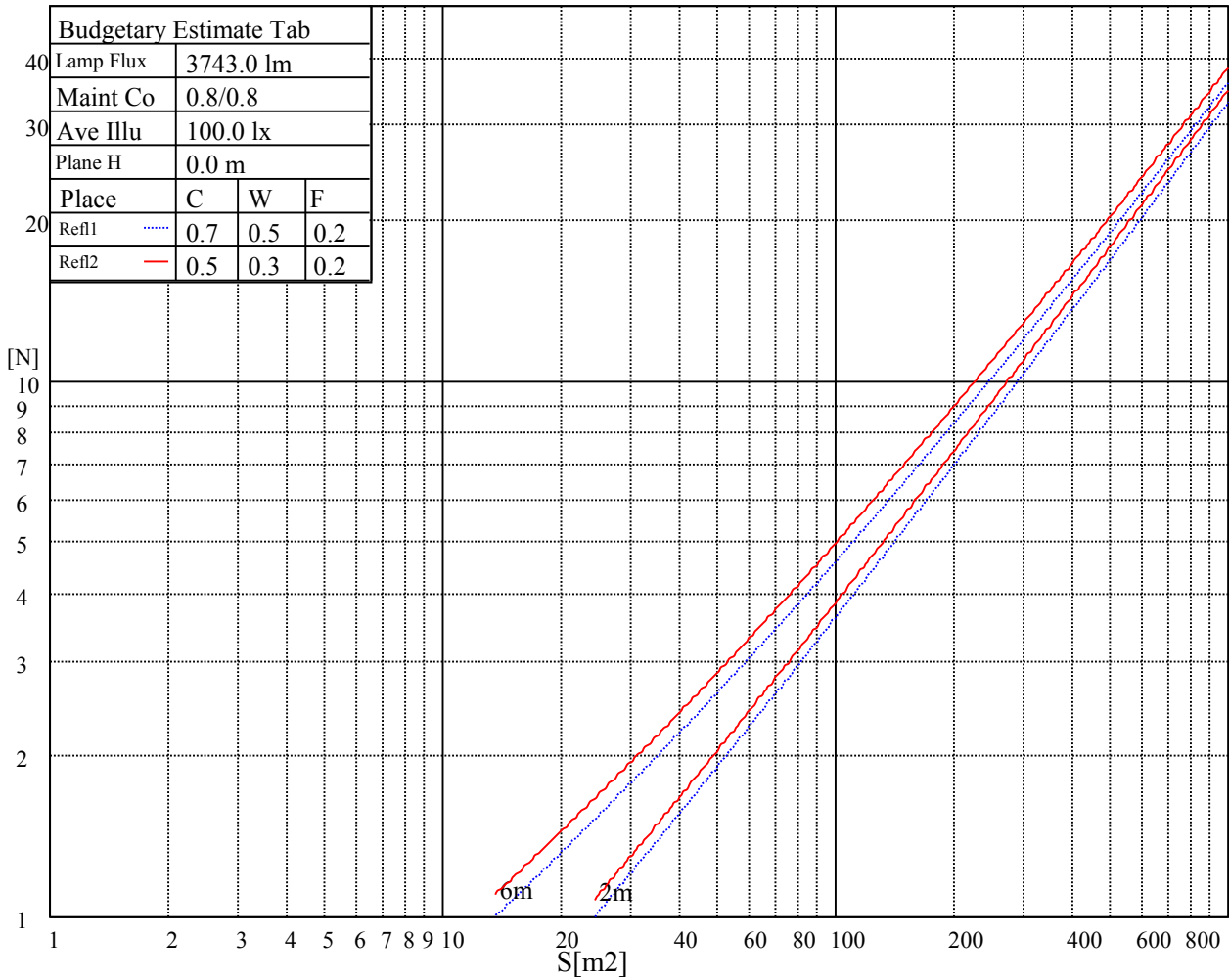
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4753	4753	4753	8121	8121	8121	25112	25112	25112

Glare Table

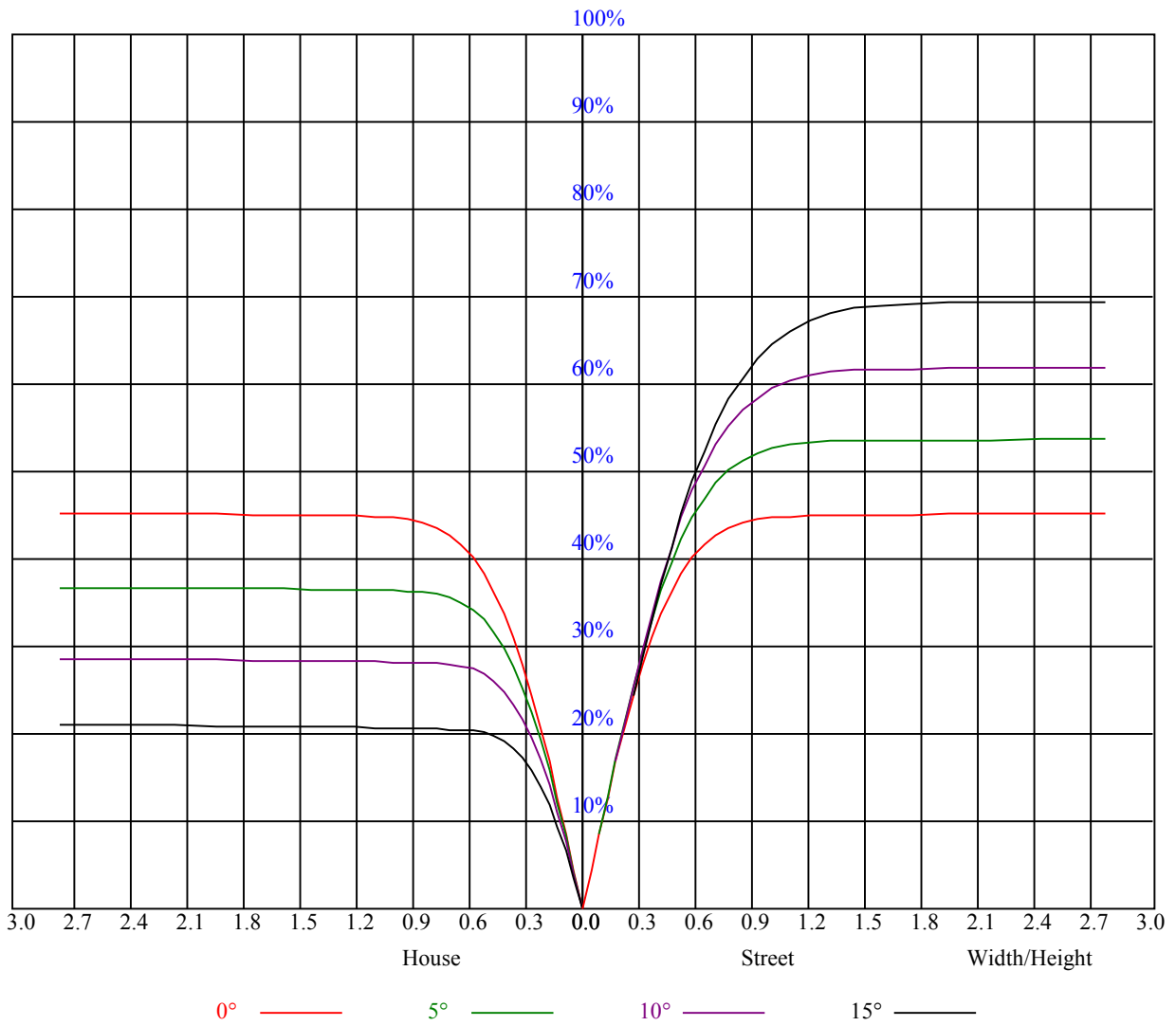
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	1.09	1.09	1.09	1.06	1.06	1.06	1.02	1.02	1.02	0.97	0.97	0.97	0.93	0.93	0.93	0.91
1	1.01	0.98	0.96	0.99	0.97	0.95	0.95	0.93	0.92	0.92	0.90	0.89	0.89	0.88	0.87	0.85
2	0.94	0.91	0.88	0.93	0.89	0.87	0.90	0.87	0.85	0.87	0.85	0.83	0.85	0.83	0.81	0.80
3	0.89	0.84	0.81	0.87	0.83	0.80	0.85	0.82	0.79	0.83	0.80	0.78	0.81	0.78	0.76	0.75
4	0.84	0.79	0.75	0.82	0.78	0.75	0.81	0.77	0.74	0.79	0.75	0.73	0.77	0.74	0.72	0.71
5	0.79	0.74	0.70	0.78	0.73	0.70	0.76	0.72	0.69	0.75	0.71	0.69	0.74	0.70	0.68	0.67
6	0.75	0.70	0.66	0.74	0.69	0.66	0.73	0.68	0.65	0.71	0.68	0.65	0.70	0.67	0.64	0.63
7	0.71	0.66	0.62	0.70	0.65	0.62	0.69	0.65	0.62	0.68	0.64	0.61	0.67	0.64	0.61	0.60
8	0.67	0.62	0.59	0.67	0.62	0.59	0.66	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.58	0.57
9	0.64	0.59	0.56	0.64	0.59	0.56	0.63	0.58	0.55	0.62	0.58	0.55	0.61	0.58	0.55	0.54
10	0.61	0.56	0.53	0.61	0.56	0.53	0.60	0.56	0.53	0.59	0.55	0.53	0.59	0.55	0.52	0.51



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	3898.54	3837.98	3751.54	3508.74	3050.68	2437.35	1724.37	1172.70	647.46
45.0	3901.85	3844.04	3753.75	3581.42	3211.44	2598.66	1915.96	1271.25	831.35
90.0	3895.79	3856.15	3795.59	3616.65	3232.36	2572.24	1878.52	1275.66	800.35
135.0	3890.29	3899.64	3873.22	3704.19	3286.87	2602.52	1938.54	1293.83	820.89
180.0	3898.54	3909.55	3878.17	3644.18	3112.34	2369.08	1709.50	1082.24	585.47
225.0	3901.85	3909.55	3840.73	3545.63	2979.65	2236.39	1603.24	1073.38	510.54
270.0	3895.79	3889.18	3814.31	3525.26	3007.73	2272.18	1596.64	1121.50	536.25
315.0	3890.29	3862.76	3749.34	3407.99	2797.42	2138.39	1494.23	979.40	430.32
360.0	3898.54	3837.98	3751.54	3508.74	3050.68	2437.35	1724.37	1172.70	647.46

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	167.32	16.96	15.69	15.20	15.09	15.09	15.42	17.51	19.93
45.0	290.70	17.67	15.91	15.25	15.03	14.92	15.03	15.53	17.01
90.0	185.54	17.40	15.86	15.31	15.03	14.98	14.92	15.58	16.30
135.0	327.04	20.10	15.97	15.36	15.09	14.98	14.87	14.87	14.81
180.0	92.27	16.85	15.75	15.42	15.36	15.09	15.91	16.13	14.76
225.0	42.50	16.90	15.91	15.75	15.97	16.41	17.62	17.89	16.08
270.0	42.56	17.12	16.24	16.35	16.79	17.67	19.77	20.26	17.62
315.0	29.07	16.41	15.58	15.31	15.25	15.47	15.80	16.52	18.17
360.0	167.32	16.96	15.69	15.20	15.09	15.09	15.42	17.51	19.93

C/γ(°)	90.0
0.0	14.53
45.0	14.59
90.0	14.53
135.0	14.53
180.0	14.53
225.0	14.59
270.0	14.59
315.0	14.53
360.0	14.53