



NATA LIGHTING CO.,LTD.
www.nata.cn
Email:info@nata.com
Tel:+86 571 85021543 Fax:+86 571 87977635
Address:Address:Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,ChinaNata

NT

Client: NT

LumCAT: 62-0104

Luminaire: 92.70.427.00

Report No:

Ballast type: AC

Test No: 20251117-C008

LampCAT: CITIZEN CLU028

Lamp flux(lm): -1.0

Number of Lamps: 1

Length(mm): 55

Phm Type: C

Voltage(V): 35.350

Current(A): 0.360

Power (W): 12.790

PF: 0.000

Width(mm): 55

Height(mm): 25

Photometric Results

Lumens(lm): 1443.97, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 112.90

Central intensity(cd): 3595.444, Maximum intensity(cd): 3599.944

Angle of maximum intensity: C=180.0 γ =1.0

Beam Angle(50%Imax): [C0/180]Total=34.6

[C90/270]Total=35.5

Field angle(10%Imax): [C0/180]Total=59.6

[C90/270]Total=58.9

Maximum s/h(1/2): C0_180=0.60 C90_270=0.58

Maximum s/h(1/4): C0_180=0.61 C90_270=0.57

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.177%

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2025/11/17
Humidity(%): 60.0%

Operator: 杨泽全
Distance(m): 7.50

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3588.694	0.000	0	0.00%	0.00%
1.0	3577.373	3.429	3.429	0.00%	0.24%
2.0	3551.709	10.232	13.661	0.00%	0.95%
3.0	3506.428	16.881	30.542	0.00%	2.12%
4.0	3461.077	23.322	53.864	0.00%	3.73%
5.0	3385.420	29.453	83.318	0.00%	5.77%
6.0	3300.694	35.137	118.455	0.00%	8.20%
7.0	3211.538	40.421	158.876	0.00%	11.00%
8.0	3106.491	45.217	204.093	0.00%	14.13%
9.0	2999.967	49.490	253.583	0.00%	17.56%
10.0	2879.944	53.211	306.794	0.00%	21.25%
11.0	2748.741	56.242	363.036	0.00%	25.14%
12.0	2618.241	58.669	421.705	0.00%	29.20%
13.0	2476.209	60.458	482.163	0.00%	33.39%
14.0	2329.045	61.507	543.67	0.00%	37.65%
15.0	2179.280	61.892	605.562	0.00%	41.94%
16.0	2010.108	61.386	666.948	0.00%	46.19%
17.0	1869.764	60.420	727.368	0.00%	50.37%
18.0	1730.967	59.368	786.737	0.00%	54.48%
19.0	1582.819	57.653	844.39	0.00%	58.48%
20.0	1382.527	54.274	898.664	0.00%	62.24%
21.0	1277.058	51.069	949.733	0.00%	65.77%
22.0	1159.460	48.963	998.696	0.00%	69.16%
23.0	1040.702	46.165	1044.861	0.00%	72.36%
24.0	900.330	42.438	1087.299	0.00%	75.30%
25.0	785.658	38.336	1125.635	0.00%	77.95%
26.0	681.884	34.641	1160.276	0.00%	80.35%
27.0	580.148	30.876	1191.152	0.00%	82.49%
28.0	491.646	27.136	1218.288	0.00%	84.37%
29.0	407.475	23.524	1241.811	0.00%	86.00%
30.0	341.100	20.211	1262.023	0.00%	87.40%
31.0	284.288	17.404	1279.426	0.00%	88.60%
32.0	227.440	14.660	1294.087	0.00%	89.62%
33.0	191.236	12.334	1306.421	0.00%	90.47%
34.0	149.259	10.304	1316.726	0.00%	91.19%
35.0	111.466	8.097	1324.823	0.00%	91.75%
36.0	91.730	6.470	1331.293	0.00%	92.20%
37.0	74.559	5.423	1336.716	0.00%	92.57%

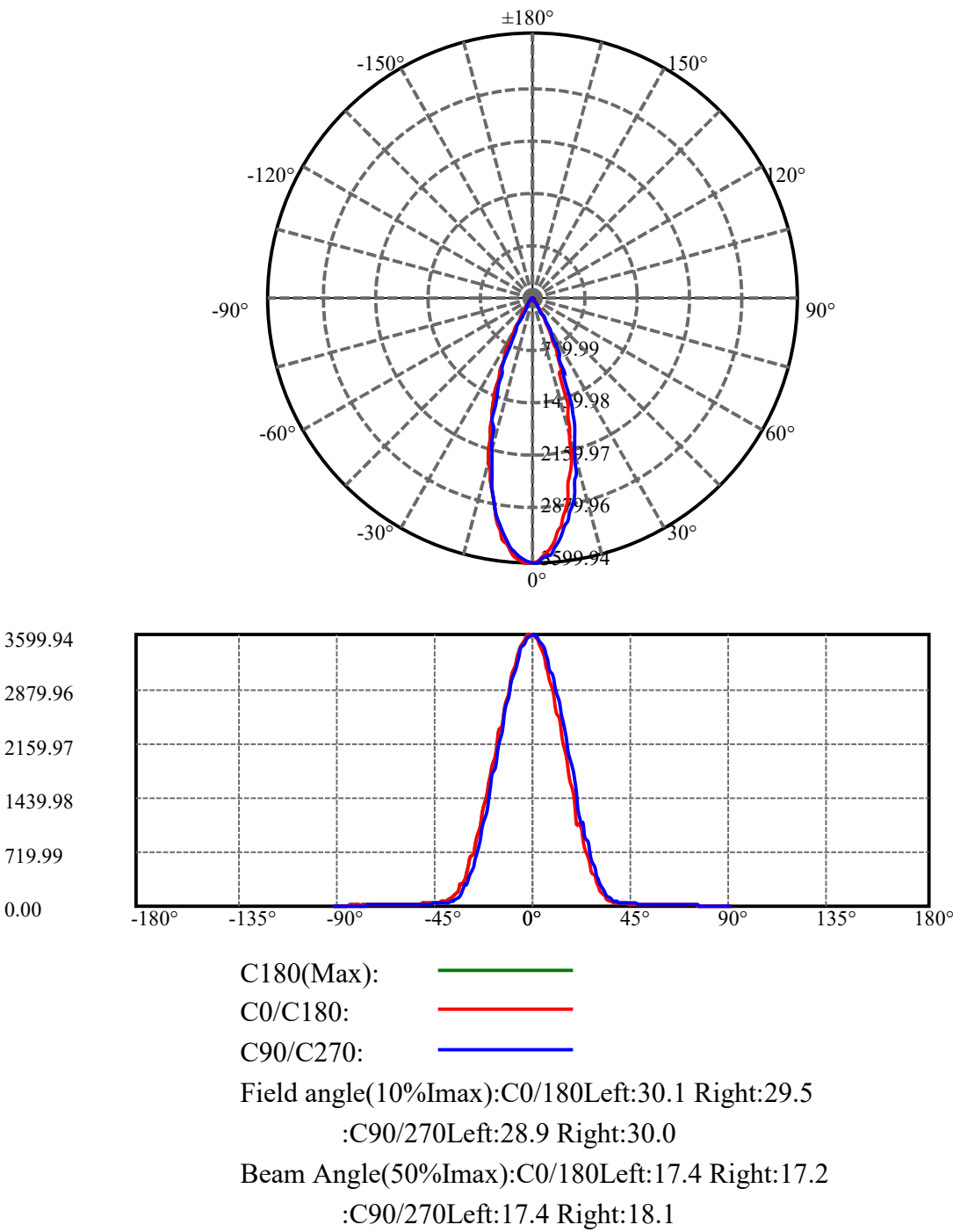
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	64.055	4.627	1341.343	0.00%	92.89%
39.0	55.378	4.077	1345.419	0.00%	93.17%
40.0	49.191	3.647	1349.066	0.00%	93.43%
41.0	44.937	3.352	1352.418	0.00%	93.66%
42.0	41.070	3.125	1355.543	0.00%	93.88%
43.0	38.911	2.963	1358.506	0.00%	94.08%
44.0	37.153	2.871	1361.376	0.00%	94.28%
45.0	35.585	2.795	1364.172	0.00%	94.47%
46.0	34.362	2.735	1366.907	0.00%	94.66%
47.0	33.293	2.691	1369.598	0.00%	94.85%
48.0	32.498	2.660	1372.258	0.00%	95.03%
49.0	31.929	2.646	1374.904	0.00%	95.22%
50.0	31.303	2.636	1377.54	0.00%	95.40%
51.0	30.832	2.629	1380.169	0.00%	95.58%
52.0	30.403	2.628	1382.796	0.00%	95.76%
53.0	29.946	2.625	1385.422	0.00%	95.95%
54.0	29.447	2.618	1388.039	0.00%	96.13%
55.0	28.800	2.600	1390.639	0.00%	96.31%
56.0	28.111	2.572	1393.211	0.00%	96.48%
57.0	27.464	2.541	1395.752	0.00%	96.66%
58.0	26.564	2.498	1398.25	0.00%	96.83%
59.0	25.938	2.455	1400.705	0.00%	97.00%
60.0	25.200	2.416	1403.121	0.00%	97.17%
61.0	24.356	2.365	1405.486	0.00%	97.33%
62.0	23.569	2.309	1407.795	0.00%	97.49%
63.0	22.795	2.255	1410.05	0.00%	97.65%
64.0	22.099	2.203	1412.253	0.00%	97.80%
65.0	21.396	2.153	1414.406	0.00%	97.95%
66.0	20.644	2.098	1416.503	0.00%	98.10%
67.0	19.856	2.036	1418.54	0.00%	98.24%
68.0	19.013	1.969	1420.509	0.00%	98.38%
69.0	18.134	1.895	1422.404	0.00%	98.51%
70.0	17.198	1.815	1424.218	0.00%	98.63%
71.0	16.228	1.728	1425.946	0.00%	98.75%
72.0	15.033	1.625	1427.571	0.00%	98.86%
73.0	13.936	1.515	1429.086	0.00%	98.97%
74.0	12.930	1.412	1430.499	0.00%	99.07%
75.0	11.911	1.313	1431.811	0.00%	99.16%

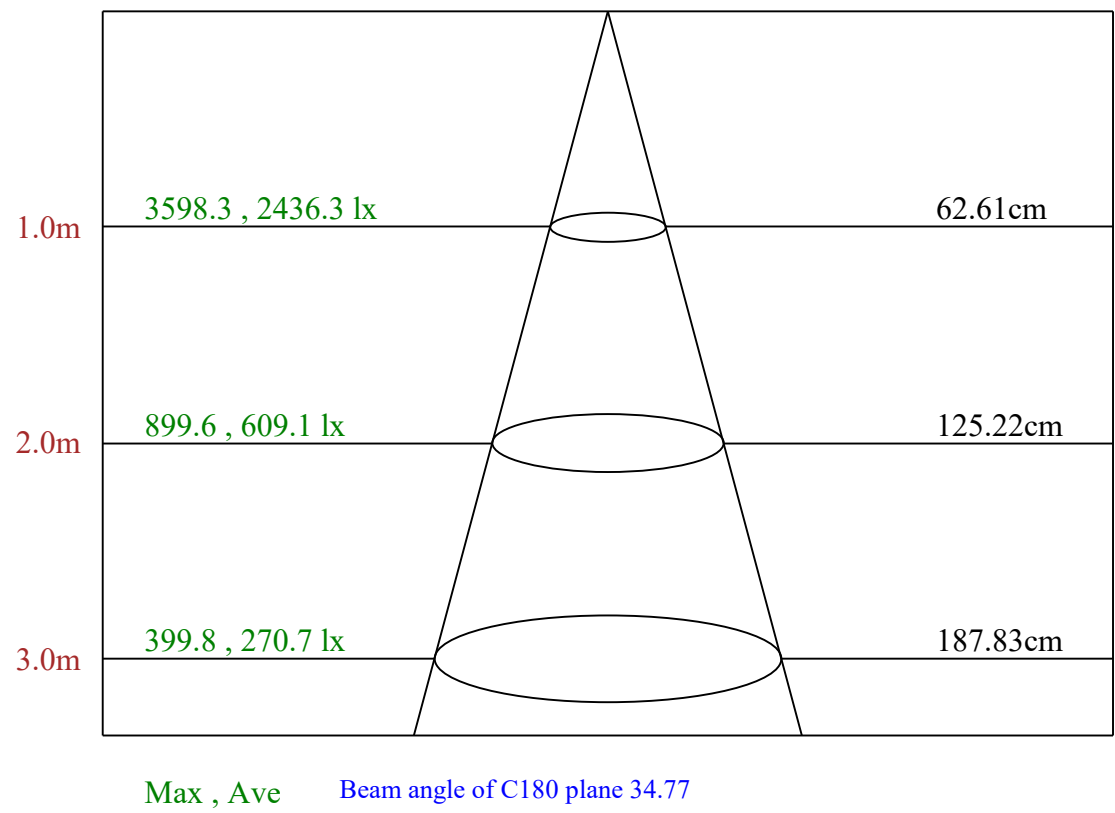
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	11.313	1.233	1433.044	0.00%	99.24%
77.0	11.032	1.191	1434.235	0.00%	99.33%
78.0	10.343	1.144	1435.38	0.00%	99.40%
79.0	9.527	1.068	1436.447	0.00%	99.48%
80.0	9.218	1.011	1437.458	0.00%	99.55%
81.0	8.937	0.982	1438.44	0.00%	99.62%
82.0	8.276	0.933	1439.373	0.00%	99.68%
83.0	7.052	0.833	1440.206	0.00%	99.74%
84.0	6.068	0.715	1440.921	0.00%	99.79%
85.0	5.379	0.625	1441.546	0.00%	99.83%
86.0	4.922	0.563	1442.109	0.00%	99.87%
87.0	4.556	0.519	1442.627	0.00%	99.91%
88.0	4.233	0.481	1443.109	0.00%	99.94%
89.0	3.881	0.445	1443.554	0.00%	99.97%
90.0	3.741	0.418	1443.972	0.00%	100.00%

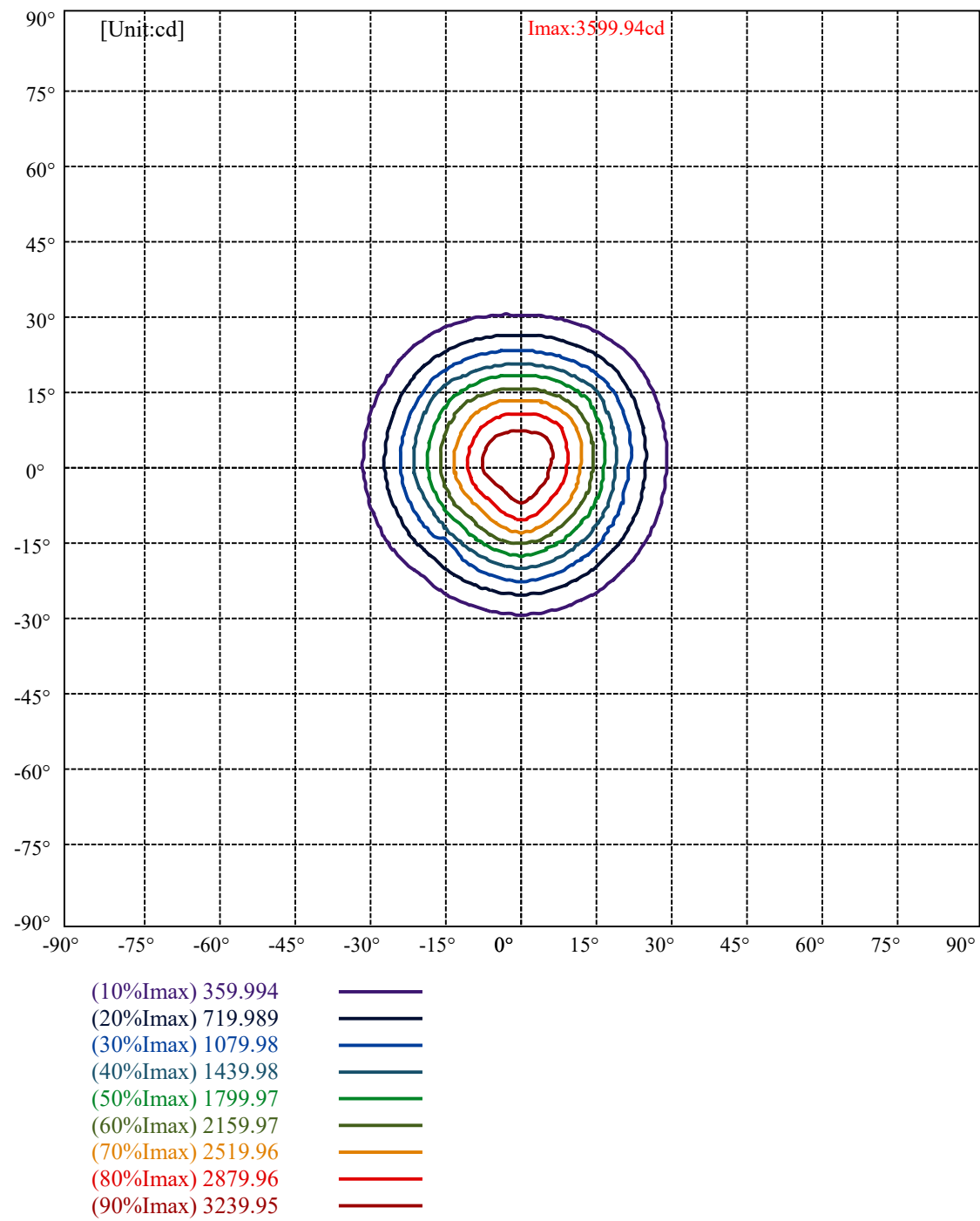
ZONAL LUMEN SUMMARY			
Zone	Lumens	%Lamp	%Fixt
0-30	1262.02	N.A.	87.40%
0-40	1349.07	N.A.	93.43%
0-60	1403.12	N.A.	97.17%
0-90	1443.55	N.A.	99.97%
0-120	1443.55	N.A.	99.97%
0-180	1443.97	N.A.	100.00%
60-90	40.43	N.A.	2.80%
90-120	0.00	N.A.	0.00%
90-130	0.00	N.A.	0.00%
90-150	0.00	N.A.	0.00%
90-180	0.00	N.A.	0.00%
0-25.85	1155.18	N.A.	80.00%

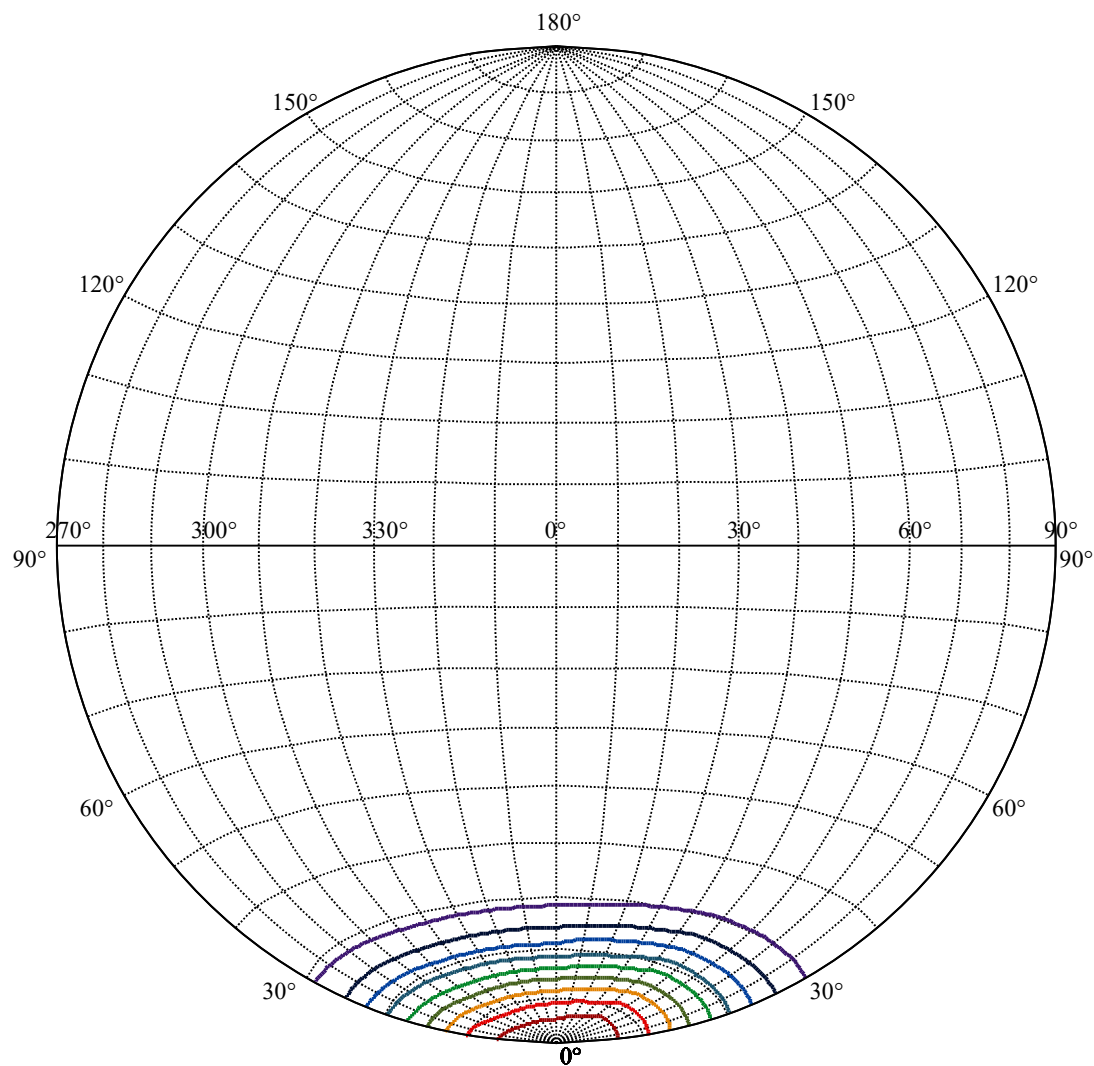
ZONAL LUMEN SUMMARY

0-10	306.79
10-20	591.87
20-30	363.36
30-40	87.04
40-50	28.47
50-60	25.58
60-70	21.10
70-80	13.24
80-90	6.10
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









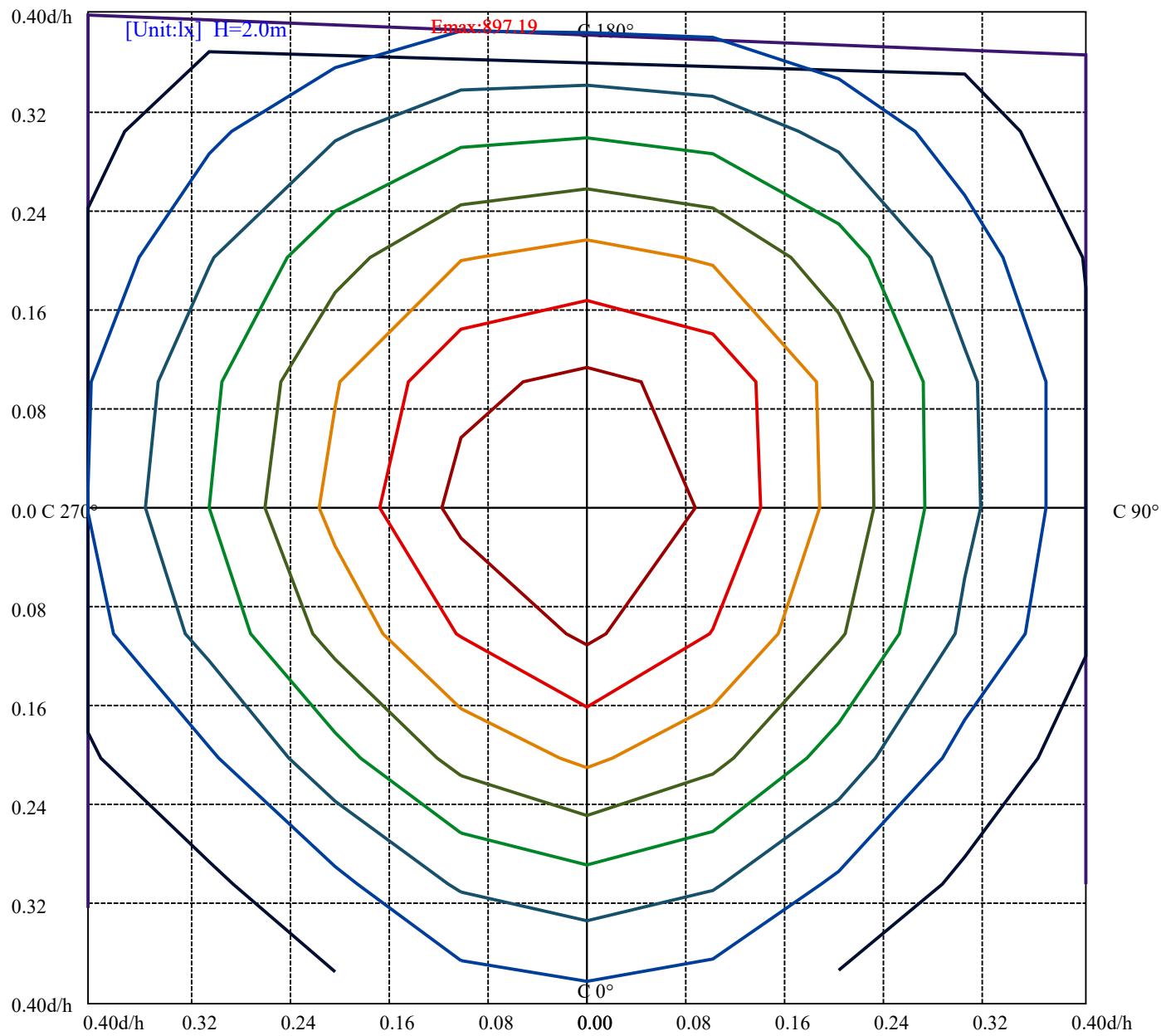
House

[Unit:cd]

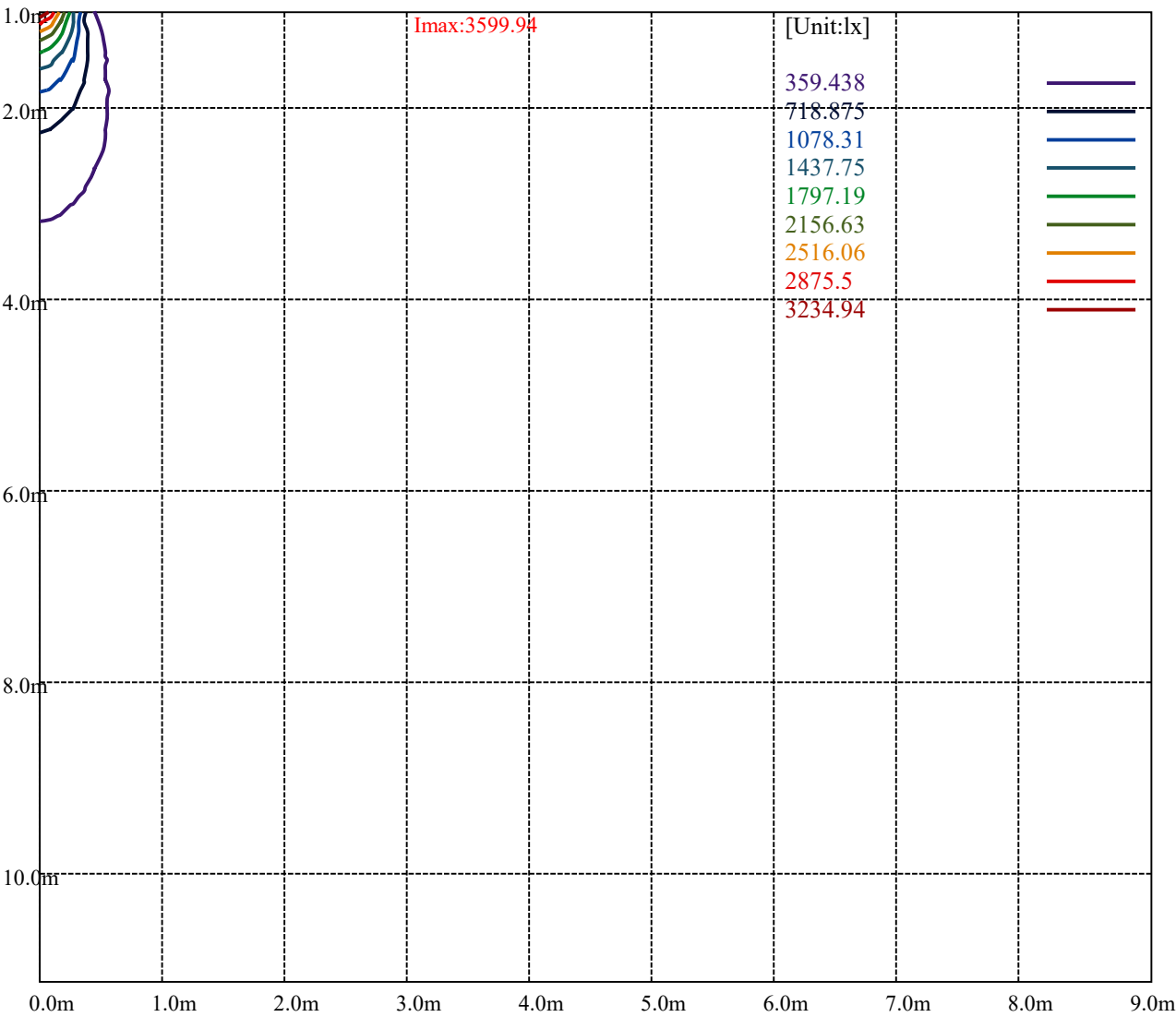
Road

Imax:3599.94

(10%Imax)	360	—
(20%Imax)	720	—
(30%Imax)	1080	—
(40%Imax)	1440	—
(50%Imax)	1800	—
(60%Imax)	2160	—
(70%Imax)	2520	—
(80%Imax)	2880	—
(90%Imax)	3240	—



(10%Emax) 89.71875	—
(20%Emax) 179.4375	—
(30%Emax) 269.1575	—
(40%Emax) 358.875	—
(50%Emax) 448.595	—
(60%Emax) 538.3125	—
(70%Emax) 628.0325	—
(80%Emax) 717.75	—
(90%Emax) 807.47	—



Luminance Table

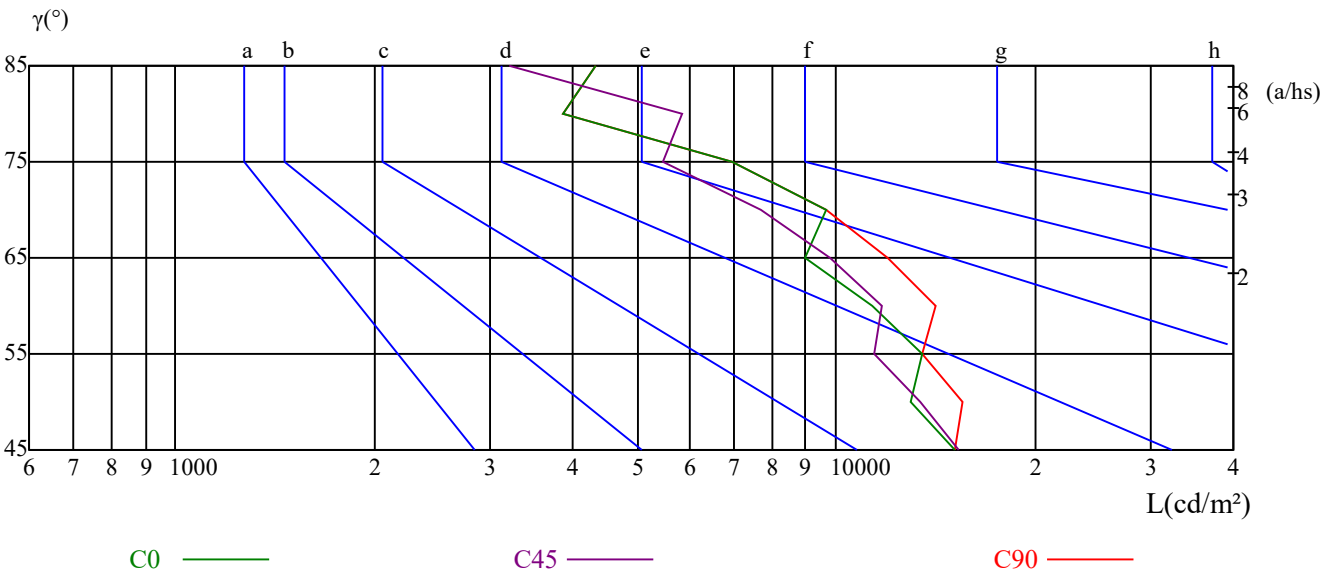
γ	45	50	55	60	65	70	75	80	85
C0	15152	13000	13502	11325	8998	9644	6984	3854	4336
C45	15400	13391	11411	11766	9792	7714	5459	5864	3193
C90	15152	15600	13502	14156	11997	9644	6984	3854	4336

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
23005	26291	24648	26831	21465	21465	31871	31871	31871

Glare Table

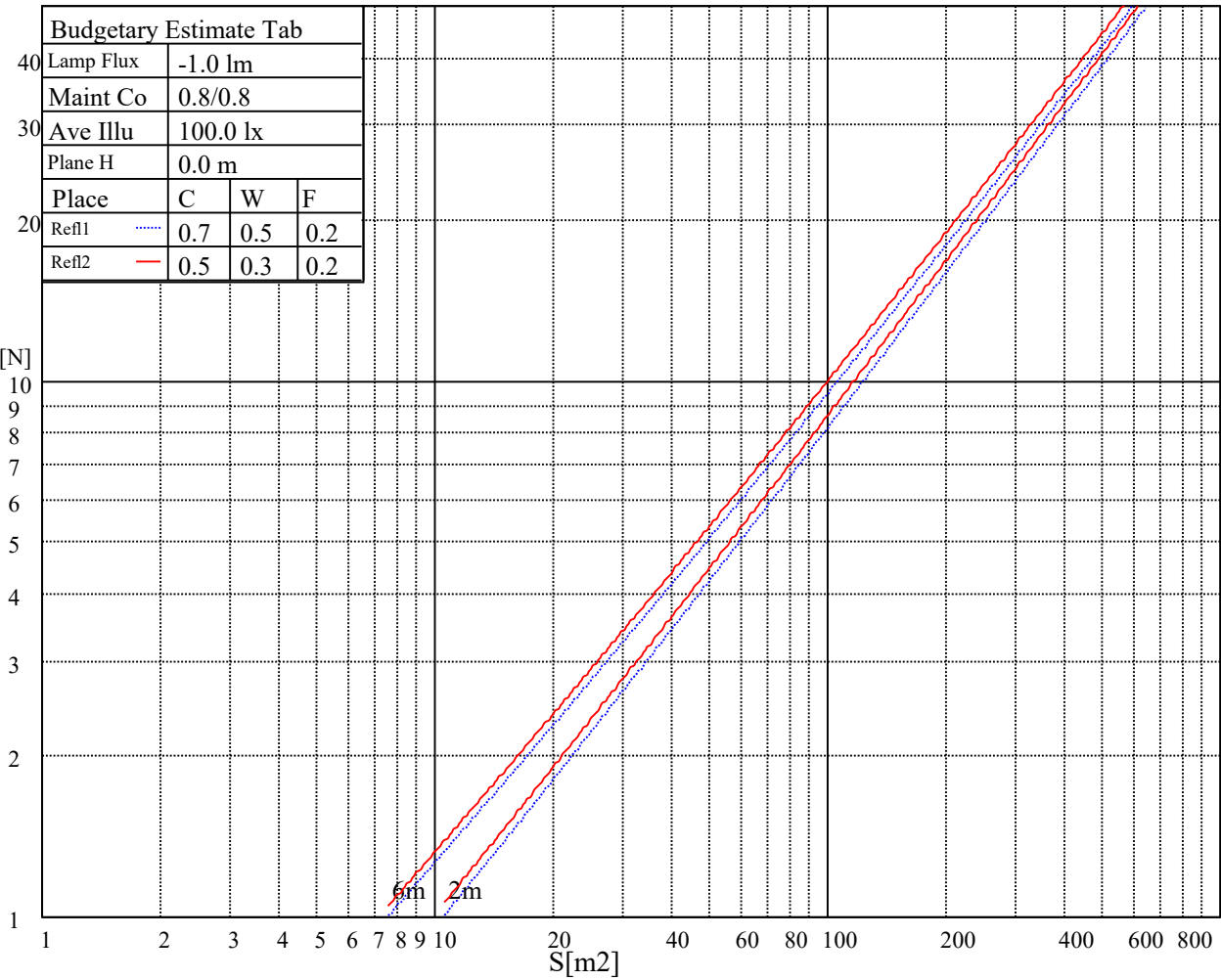
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

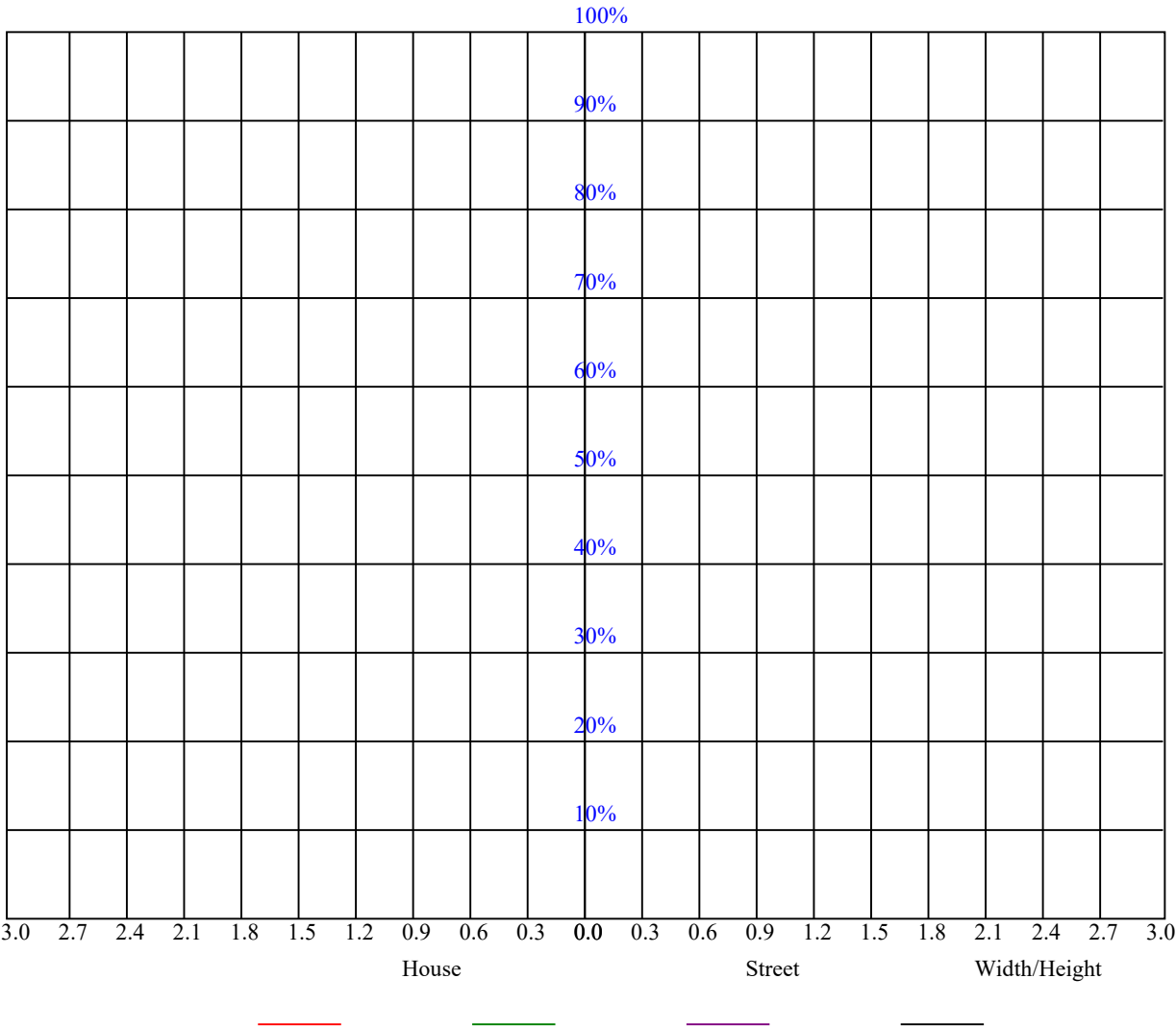


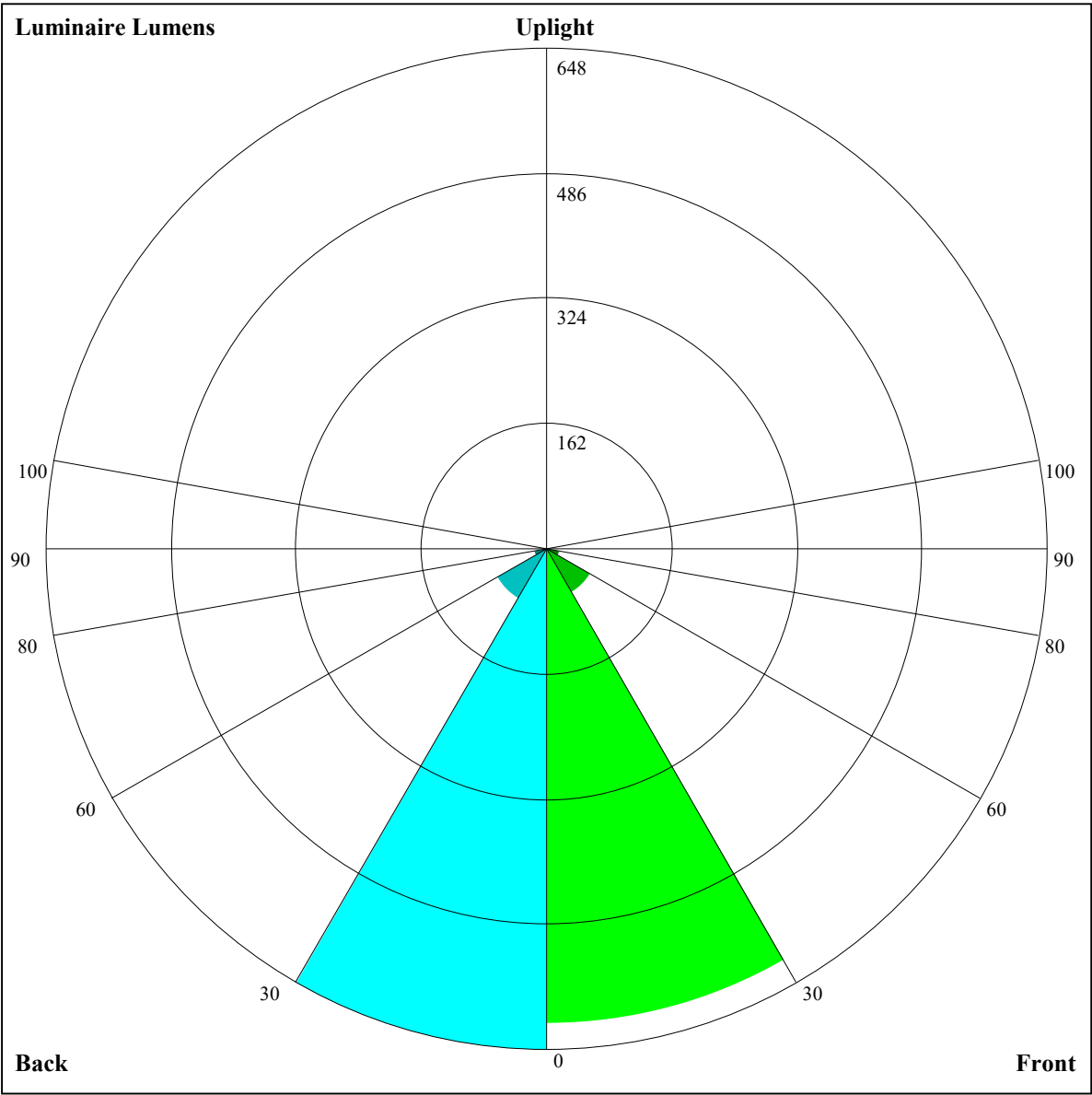
Illumination assessment according UGR											
Rf of Ceiling		70	70	50	50	30	70	70	50	50	30
Rf of Wall		50	30	50	30	30	50	30	50	30	30
Rf of Floor		20	20	20	20	20	20	20	20	20	20
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	14.99	15.97	15.35	16.28	16.60	15.70	16.68	16.07	17.00	17.31
	3H	16.05	16.93	16.44	17.26	17.61	16.75	17.63	17.14	17.96	18.31
	4H	16.41	17.22	16.81	17.58	17.95	17.14	17.95	17.54	18.30	18.67
	6H	16.63	17.38	17.05	17.75	18.15	17.42	18.16	17.83	18.53	18.93
	8H	16.68	17.39	17.10	17.78	18.18	17.50	18.21	17.92	18.60	19.00
	12H	16.71	17.38	17.14	17.78	18.20	17.56	18.23	17.98	18.62	19.04
4H	2H	15.42	16.23	15.82	16.58	16.95	16.01	16.82	16.41	17.17	17.54
	3H	16.65	17.33	17.07	17.73	18.14	17.23	17.91	17.65	18.30	18.72
	4H	17.16	17.75	17.59	18.17	18.62	17.76	18.35	18.20	18.78	19.23
	6H	17.42	17.94	17.90	18.40	18.85	18.09	18.62	18.57	19.07	19.52
	8H	17.53	18.02	18.02	18.48	18.95	18.25	18.74	18.74	19.20	19.67
	12H	17.62	18.07	18.11	18.52	19.04	18.38	18.82	18.87	19.27	19.79
8H	4H	17.30	17.79	17.79	18.24	18.72	17.86	18.34	18.34	18.80	19.27
	6H	17.68	18.08	18.19	18.56	19.07	18.29	18.69	18.80	19.17	19.68
	8H	17.92	18.25	18.45	18.77	19.27	18.58	18.91	19.12	19.44	19.93
	12H	18.08	18.33	18.62	18.85	19.37	18.78	19.04	19.33	19.55	20.08
12H	4H	17.30	17.74	17.79	18.20	18.72	17.84	18.28	18.33	18.74	19.26
	6H	17.77	18.10	18.30	18.62	19.12	18.36	18.69	18.89	19.21	19.71
	8H	18.01	18.26	18.55	18.78	19.30	18.65	18.90	19.19	19.42	19.94
Variation with the observer position at spacings:											
S = 1.0H		2.3/-1.1					1.7/-1.0				
S = 1.5H		3.5/-1.1					2.8/-1.1				
S = 2.0H		4.9/-1.2					4.2/-1.3				
Standard tables:		BK3					BK3				
Uncorrected UGR		-0.1					-0.7				

UGR calculation is based on CIE Publ. 117 ,S/H = 0.25



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	COEFFCIENTS OF UTILIZATION RHOFC=20 CU															
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00





Luminaire Lumens:

FL=614.25,FM=65.41,FH=16.67,FVH=2.98

BL=648,BM=75.07,BH=17.4,BVH=3.38

UL=0,UH=0

BUG Rating:B2-U0-G0

Intensity data(cd)

Appendix Page: 18 Total:20

C/ γ (°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	3595.44	3574.63	3525.69	3466.63	3423.32	3304.63	3184.26	3117.32	2999.76
45.0	3587.01	3592.07	3585.88	3561.13	3518.38	3457.63	3416.57	3319.82	3219.69
90.0	3597.69	3593.19	3566.19	3515.57	3483.51	3417.69	3339.51	3253.44	3135.32
135.0	3574.63	3584.76	3580.82	3557.19	3536.94	3476.19	3409.26	3334.44	3243.88
180.0	3595.44	3599.94	3593.76	3558.88	3507.69	3444.69	3365.38	3310.82	3191.57
225.0	3587.01	3551.57	3491.94	3452.01	3381.69	3291.13	3192.13	3058.82	2986.26
270.0	3597.69	3587.01	3560.57	3516.13	3457.07	3413.76	3317.01	3224.19	3119.57
315.0	3574.63	3535.82	3508.82	3423.88	3380.01	3277.63	3181.44	3073.44	2955.88
360.0	3595.44	3574.63	3525.69	3466.63	3423.32	3304.63	3184.26	3117.32	2999.76
C/ γ (°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2872.07	2736.51	2562.69	2472.69	2321.38	2168.94	1983.32	1831.44	1680.13
45.0	3113.94	2976.13	2927.76	2775.88	2640.88	2499.13	2322.51	2174.01	2019.88
90.0	3072.32	2959.26	2839.44	2708.94	2542.44	2453.57	2244.32	2062.07	1971.51
135.0	3184.82	3014.38	2895.69	2822.01	2664.51	2526.69	2384.38	2242.07	2154.32
180.0	3082.44	2966.01	2813.57	2681.38	2542.44	2400.69	2314.63	2141.38	1996.26
225.0	2861.94	2729.19	2589.69	2411.38	2323.07	2174.57	2022.69	1838.76	1686.88
270.0	3007.63	2933.38	2777.01	2638.07	2491.26	2308.44	2152.63	1995.69	1838.76
315.0	2804.57	2724.69	2584.07	2435.57	2283.69	2100.32	2009.76	1795.44	1610.38
360.0	2872.07	2736.51	2562.69	2472.69	2321.38	2168.94	1983.32	1831.44	1680.13
C/ γ (°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1530.51	1353.32	1086.13	1086.13	1033.93	882.17	764.27	654.98	554.63
45.0	1865.19	1772.94	1593.51	1445.01	1299.88	1159.26	999.51	872.94	754.82
90.0	1819.63	1667.76	1517.01	1281.32	1087.03	1087.03	924.41	847.46	725.96
135.0	1976.01	1829.76	1686.88	1542.88	1456.82	1288.07	1100.19	1023.69	874.63
180.0	1853.38	1713.88	1631.19	1464.69	1329.69	1198.07	1047.88	926.94	811.63
225.0	1536.69	1389.32	1039.16	1039.16	987.58	839.76	770.51	661.56	561.83
270.0	1745.38	1562.01	1408.44	1259.38	1115.94	1032.13	874.07	703.63	636.69
315.0	1520.94	1373.57	1097.89	1097.89	964.80	839.14	721.80	594.06	534.88
360.0	1530.51	1353.32	1086.13	1086.13	1033.93	882.17	764.27	654.98	554.63
C/ γ (°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	446.68	397.86	324.00	259.88	206.33	154.63	133.48	95.18	73.35
45.0	686.76	561.32	469.07	386.94	314.94	301.44	234.00	157.44	136.63
90.0	614.81	514.01	407.03	359.66	290.36	232.20	183.99	138.60	110.08
135.0	758.76	650.76	552.88	497.76	397.07	323.38	296.94	284.01	161.10
180.0	704.19	643.44	530.38	444.88	367.26	300.32	300.32	191.70	152.38
225.0	471.04	375.98	333.84	272.25	219.77	175.89	133.37	106.09	85.73
270.0	516.32	427.44	349.82	282.88	282.88	176.34	139.28	121.28	93.09
315.0	442.63	362.36	292.78	224.55	195.69	155.31	108.51	99.79	79.37
360.0	446.68	397.86	324.00	259.88	206.33	154.63	133.48	95.18	73.35
C/ γ (°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	65.42	55.46	48.43	43.43	39.38	37.91	36.06	34.59	33.36
45.0	103.16	82.97	68.34	57.94	53.33	46.63	41.68	40.22	38.31
90.0	89.33	71.61	64.86	55.63	49.11	44.72	41.12	39.71	37.24
135.0	126.56	100.07	87.36	68.23	57.26	49.56	43.26	39.83	37.41
180.0	133.14	102.77	84.54	71.44	61.82	57.38	49.22	45.68	44.04
225.0	68.34	61.76	53.44	47.81	43.71	40.33	38.93	37.01	35.49
270.0	76.33	63.84	55.01	50.79	44.66	41.29	38.87	37.01	35.10
315.0	71.55	57.99	50.46	47.76	44.27	41.68	39.43	37.24	36.28
360.0	65.42	55.46	48.43	43.43	39.38	37.91	36.06	34.59	33.36

Intensity data(cd)										Appendix Page: 19 Total:20	
C/ γ (°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0		
0.0	32.18	31.67	30.83	30.32	30.09	29.70	29.36	28.80	28.29		
45.0	37.35	34.99	33.92	33.47	32.63	32.06	31.61	31.16	30.94		
90.0	35.44	34.76	33.69	32.91	32.34	31.84	31.67	31.28	30.77		
135.0	35.55	34.59	33.02	32.01	31.33	30.77	30.54	30.26	30.09		
180.0	41.06	39.09	37.58	36.17	35.38	34.26	33.47	32.85	32.29		
225.0	34.26	33.02	32.18	31.50	30.88	30.49	29.93	29.48	28.91		
270.0	33.86	32.85	32.40	31.61	31.11	30.60	30.09	29.81	29.25		
315.0	34.99	33.92	32.74	32.01	31.67	30.71	29.98	29.59	29.03		
360.0	32.18	31.67	30.83	30.32	30.09	29.70	29.36	28.80	28.29		
C/ γ (°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0		
0.0	27.90	27.34	26.72	25.93	25.03	24.53	23.68	22.33	21.71		
45.0	30.26	29.64	29.03	28.18	27.51	26.94	25.88	25.37	24.36		
90.0	30.26	29.36	28.97	28.13	26.78	26.33	25.48	24.69	23.74		
135.0	29.87	29.48	28.69	27.96	27.17	26.66	25.76	24.98	24.13		
180.0	31.84	30.99	29.87	29.42	28.52	27.73	27.00	26.44	25.99		
225.0	28.24	27.79	27.23	26.55	25.65	24.81	24.30	23.01	21.94		
270.0	28.74	28.13	27.51	27.11	25.99	25.20	24.75	23.74	22.84		
315.0	28.46	27.68	26.89	26.44	25.88	25.31	24.75	24.30	23.85		
360.0	27.90	27.34	26.72	25.93	25.03	24.53	23.68	22.33	21.71		
C/ γ (°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0		
0.0	20.81	19.91	18.96	17.89	17.33	16.43	15.53	14.57	13.67		
45.0	23.51	22.73	21.88	21.38	20.31	19.46	18.68	17.78	16.48		
90.0	22.67	22.11	21.26	20.48	19.52	18.39	17.83	16.93	15.98		
135.0	23.40	22.84	21.83	20.98	20.08	19.07	18.68	17.33	16.54		
180.0	25.31	24.92	24.81	24.69	24.53	24.13	23.51	23.18	22.50		
225.0	21.32	20.48	19.52	18.45	17.33	16.82	15.98	15.02	14.18		
270.0	21.94	21.04	20.53	19.46	18.56	17.66	16.59	15.64	15.08		
315.0	23.40	22.78	22.39	21.83	21.21	20.14	18.28	17.16	15.41		
360.0	20.81	19.91	18.96	17.89	17.33	16.43	15.53	14.57	13.67		
C/ γ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0		
0.0	13.11	11.81	11.25	10.18	9.23	8.27	7.43	6.75	6.41		
45.0	15.47	14.51	13.89	12.66	11.70	10.80	9.96	9.34	8.55		
90.0	14.91	14.06	13.11	12.09	11.03	10.46	9.51	8.55	7.76		
135.0	15.86	14.79	13.95	13.05	12.21	11.64	10.58	9.73	8.72		
180.0	21.15	18.73	16.59	15.30	12.94	11.76	10.86	11.98	18.06		
225.0	13.11	12.26	11.42	10.29	9.73	8.78	7.82	7.26	6.64		
270.0	13.84	13.28	12.21	11.31	10.29	9.34	8.78	7.71	7.20		
315.0	12.83	12.04	11.03	10.41	13.39	17.21	17.83	14.91	10.41		
360.0	13.11	11.81	11.25	10.18	9.23	8.27	7.43	6.75	6.41		
C/ γ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0		
0.0	5.96	5.29	5.01	4.56	4.11	3.88	3.49	3.15	2.87		
45.0	8.21	8.04	7.71	6.69	5.96	5.46	4.95	4.50	4.05		
90.0	7.65	7.26	6.58	5.79	5.34	4.95	4.44	4.05	3.71		
135.0	7.65	7.14	6.41	5.79	5.34	4.89	4.44	4.05	3.66		
180.0	20.93	19.01	12.88	9.45	7.31	6.69	6.24	5.74	5.12		
225.0	6.41	5.85	5.40	4.84	4.50	4.22	3.83	3.49	3.21		
270.0	6.69	6.24	5.57	5.18	4.89	4.44	4.05	3.60	3.32		
315.0	7.99	7.37	6.86	6.24	5.57	4.84	5.01	5.29	5.12		
360.0	5.96	5.29	5.01	4.56	4.11	3.88	3.49	3.15	2.87		

Intensity data(cd)

C/ $\gamma(^{\circ})$	90.0
0.0	2.81
45.0	3.77
90.0	3.60
135.0	3.43
180.0	5.46
225.0	3.04
270.0	3.09
315.0	4.73
360.0	2.81