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NT

Client: NT

LumCAT: 62-0094

Luminaire: 92.70.412.00

Report No:

Ballast type: AC

Test No: 20250529-C003

LampCAT: CITIZEN CLU038

Lamp flux(lm): 3275.4

Number of Lamps: 1

Length(mm): 75

Phm Type: C

Voltage(V): 36.330

Current(A): 0.705

Power (W): 25.610

PF: 0.000

Width(mm): 75

Height(mm): 34

Photometric Results

Lumens(lm): 3099.28, Efficiency(%): 94.62% , Luminous Efficacy(lm/W): 121.02

Central intensity(cd): 19744.640, Maximum intensity(cd): 19979.110

Angle of maximum intensity: C=90.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=18.7

[C90/270]Total=18.6

Field angle(10%Imax): [C0/180]Total=36.3

[C90/270]Total=36.2

Maximum s/h(1/2): C0_180=0.37 C90_270=0.28

Maximum s/h(1/4): C0_180=0.35 C90_270=0.31

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 94.61%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.268%

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2025/5/29
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.30

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	19881.859	0.000	0	0.00%	0.00%
1.0	19788.602	18.982	18.982	0.58%	0.61%
2.0	19430.893	56.292	75.273	1.72%	2.43%
3.0	18850.031	91.555	166.829	2.80%	5.38%
4.0	17997.393	123.340	290.169	3.77%	9.36%
5.0	16859.650	149.953	440.122	4.58%	14.20%
6.0	15508.749	170.105	610.226	5.19%	19.69%
7.0	13105.903	177.611	787.837	5.42%	25.42%
8.0	11830.740	178.467	966.304	5.45%	31.18%
9.0	10562.238	181.483	1147.787	5.54%	37.03%
10.0	8989.250	176.934	1324.72	5.40%	42.74%
11.0	7530.503	165.066	1489.787	5.04%	48.07%
12.0	6306.632	151.260	1641.046	4.62%	52.95%
13.0	5252.356	137.176	1778.223	4.19%	57.38%
14.0	4291.071	122.155	1900.378	3.73%	61.32%
15.0	3568.925	107.906	2008.283	3.29%	64.80%
16.0	2960.686	95.677	2103.96	2.92%	67.89%
17.0	2461.625	84.440	2188.4	2.58%	70.61%
18.0	2265.251	77.936	2266.336	2.38%	73.12%
19.0	1821.212	71.096	2337.432	2.17%	75.42%
20.0	1373.403	58.470	2395.902	1.79%	77.31%
21.0	1202.222	49.457	2445.36	1.51%	78.90%
22.0	1085.964	45.982	2491.342	1.40%	80.38%
23.0	957.441	42.876	2534.218	1.31%	81.77%
24.0	838.052	39.256	2573.474	1.20%	83.03%
25.0	737.400	35.822	2609.296	1.09%	84.19%
26.0	641.838	32.557	2641.853	0.99%	85.24%
27.0	570.776	29.667	2671.52	0.91%	86.20%
28.0	498.148	27.063	2698.583	0.83%	87.07%
29.0	437.058	24.468	2723.051	0.75%	87.86%
30.0	385.793	22.217	2745.267	0.68%	88.58%
31.0	338.118	20.145	2765.413	0.62%	89.23%
32.0	295.633	18.156	2783.569	0.55%	89.81%
33.0	259.362	16.350	2799.919	0.50%	90.34%
34.0	238.646	15.071	2814.991	0.46%	90.83%
35.0	212.967	14.025	2829.016	0.43%	91.28%
36.0	178.115	12.452	2841.468	0.38%	91.68%
37.0	157.299	10.939	2852.408	0.33%	92.03%

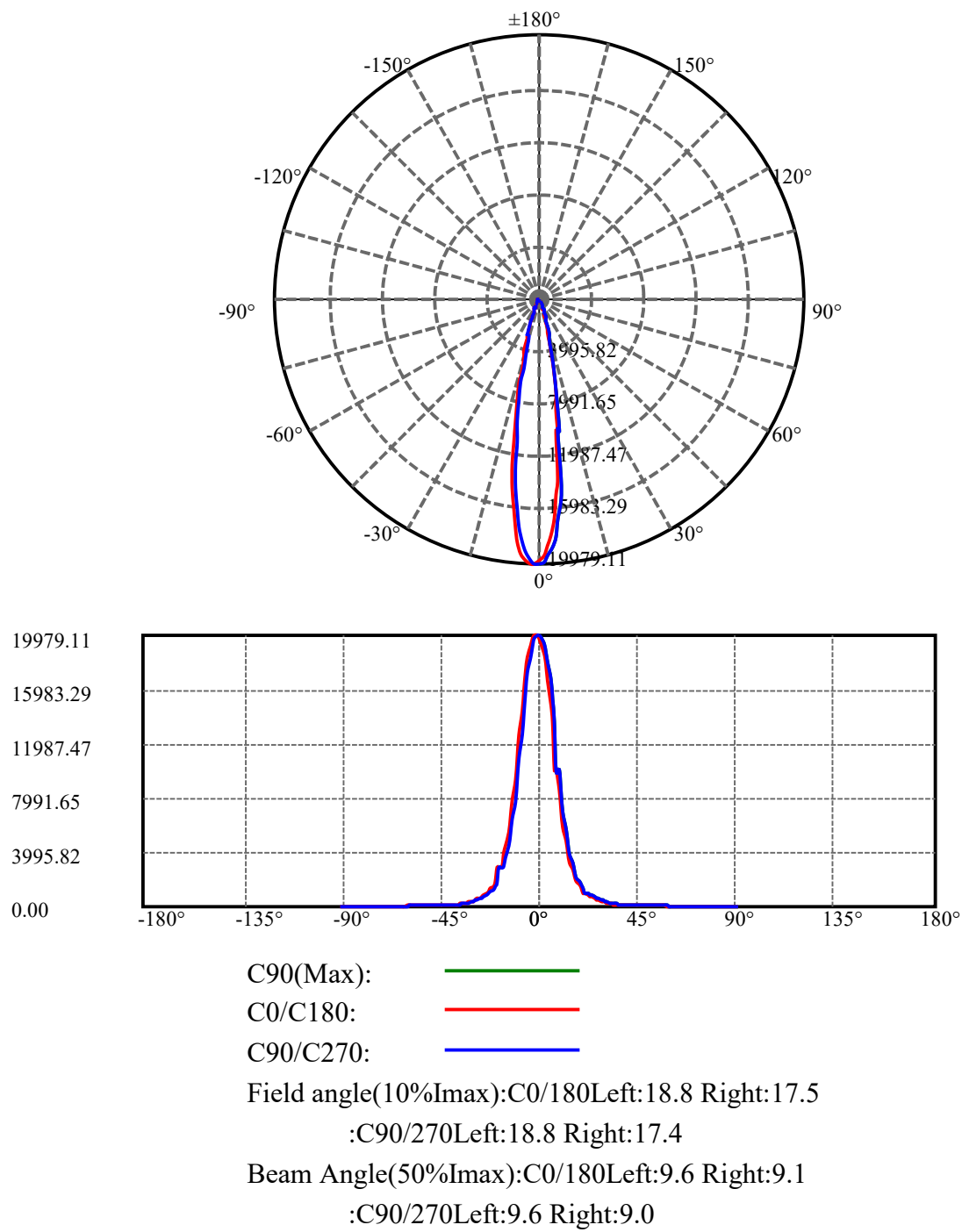
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	141.125	9.961	2862.369	0.30%	92.36%
39.0	127.316	9.163	2871.531	0.28%	92.65%
40.0	115.852	8.481	2880.012	0.26%	92.93%
41.0	107.659	7.959	2887.971	0.24%	93.18%
42.0	101.131	7.586	2895.557	0.23%	93.43%
43.0	95.476	7.283	2902.84	0.22%	93.66%
44.0	91.532	7.058	2909.898	0.22%	93.89%
45.0	88.768	6.929	2916.827	0.21%	94.11%
46.0	86.516	6.855	2923.682	0.21%	94.33%
47.0	84.824	6.815	2930.497	0.21%	94.55%
48.0	83.152	6.790	2937.287	0.21%	94.77%
49.0	81.694	6.769	2944.057	0.21%	94.99%
50.0	80.455	6.761	2950.817	0.21%	95.21%
51.0	78.982	6.746	2957.563	0.21%	95.43%
52.0	77.437	6.712	2964.275	0.20%	95.64%
53.0	75.858	6.668	2970.943	0.20%	95.86%
54.0	73.827	6.597	2977.541	0.20%	96.07%
55.0	71.588	6.491	2984.032	0.20%	96.28%
56.0	69.324	6.367	2990.399	0.19%	96.49%
57.0	66.866	6.227	2996.626	0.19%	96.69%
58.0	63.875	6.046	3002.672	0.18%	96.88%
59.0	61.397	5.857	3008.529	0.18%	97.07%
60.0	58.612	5.670	3014.198	0.17%	97.25%
61.0	55.921	5.466	3019.664	0.17%	97.43%
62.0	53.423	5.269	3024.933	0.16%	97.60%
63.0	50.972	5.077	3030.01	0.16%	97.76%
64.0	48.427	4.877	3034.888	0.15%	97.92%
65.0	45.843	4.665	3039.553	0.14%	98.07%
66.0	43.751	4.470	3044.023	0.14%	98.22%
67.0	41.460	4.285	3048.308	0.13%	98.36%
68.0	39.541	4.103	3052.411	0.13%	98.49%
69.0	37.363	3.923	3056.334	0.12%	98.61%
70.0	35.371	3.735	3060.07	0.11%	98.73%
71.0	33.293	3.549	3063.619	0.11%	98.85%
72.0	31.201	3.354	3066.972	0.10%	98.96%
73.0	29.203	3.159	3070.131	0.10%	99.06%
74.0	27.324	2.972	3073.103	0.09%	99.16%
75.0	25.419	2.787	3075.889	0.09%	99.25%

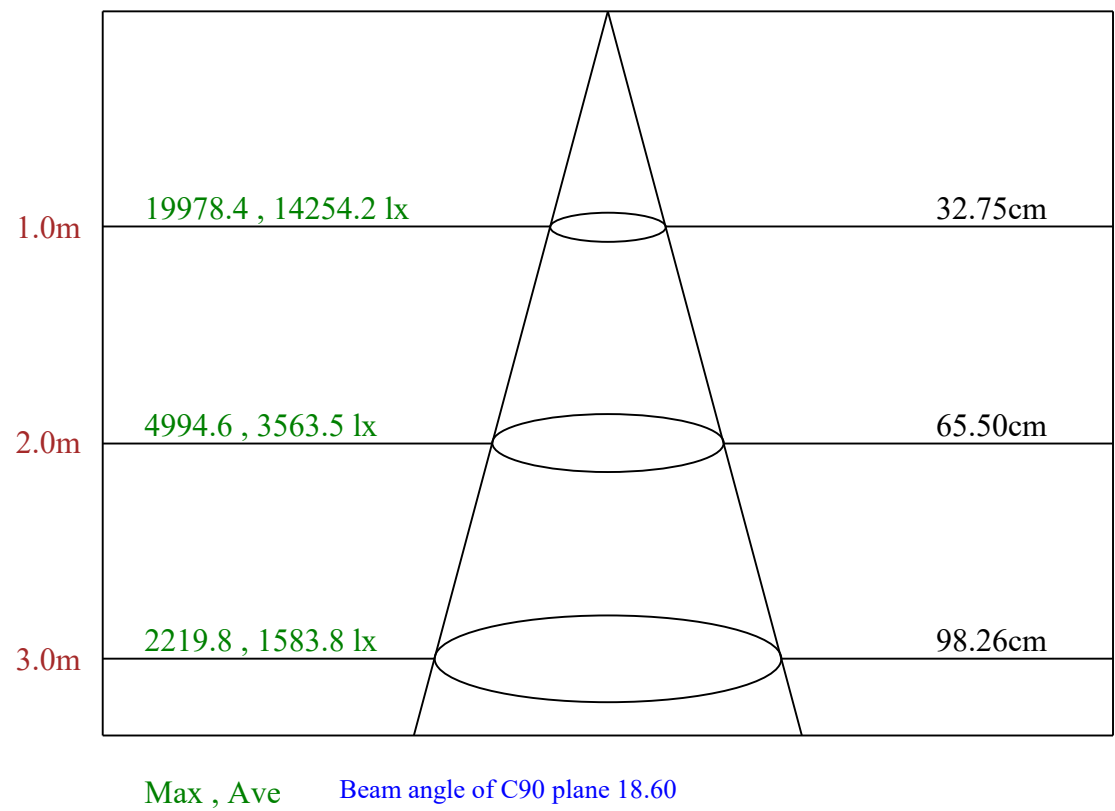
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	23.501	2.597	3078.486	0.08%	99.33%
77.0	21.882	2.420	3080.906	0.07%	99.41%
78.0	20.170	2.251	3083.157	0.07%	99.48%
79.0	18.638	2.085	3085.242	0.06%	99.55%
80.0	17.306	1.938	3087.18	0.06%	99.61%
81.0	15.840	1.793	3088.972	0.05%	99.67%
82.0	14.595	1.650	3090.623	0.05%	99.72%
83.0	13.323	1.518	3092.141	0.05%	99.77%
84.0	12.110	1.386	3093.526	0.04%	99.81%
85.0	10.878	1.255	3094.781	0.04%	99.85%
86.0	9.705	1.125	3095.906	0.03%	99.89%
87.0	8.640	1.004	3096.91	0.03%	99.92%
88.0	7.594	0.889	3097.799	0.03%	99.95%
89.0	6.708	0.784	3098.583	0.02%	99.98%
90.0	6.075	0.701	3099.284	0.02%	100.00%

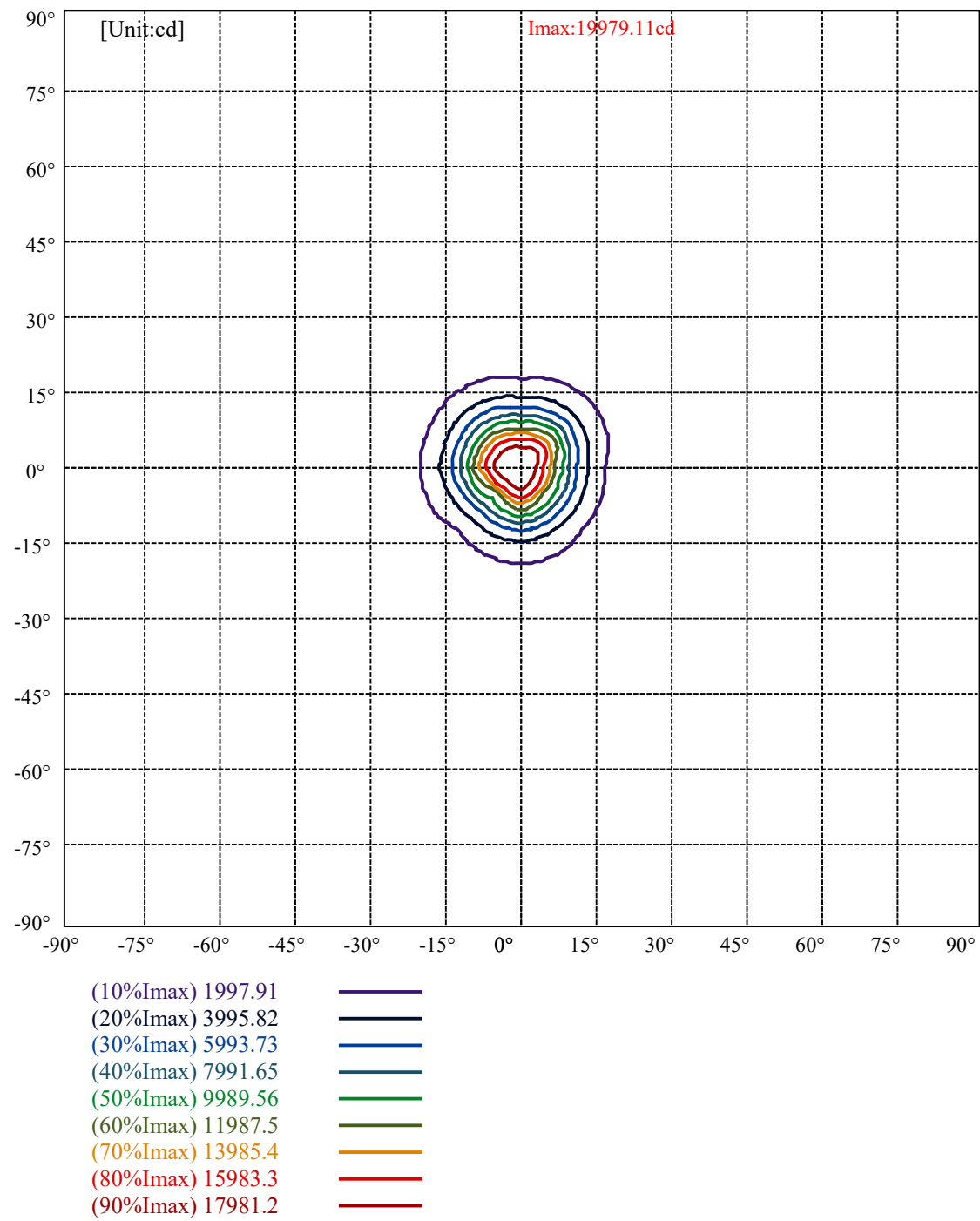
ZONAL LUMEN SUMMARY			
Zone	Lumens	%Lamp	%Fixt
0-30	2745.27	83.81%	88.58%
0-40	2880.01	87.93%	92.93%
0-60	3014.20	92.02%	97.25%
0-90	3098.58	94.60%	99.98%
0-120	3098.58	94.60%	99.98%
0-180	3099.28	94.62%	100.00%
60-90	84.38	2.58%	2.72%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-21.74	2479.43	75.70%	80.00%

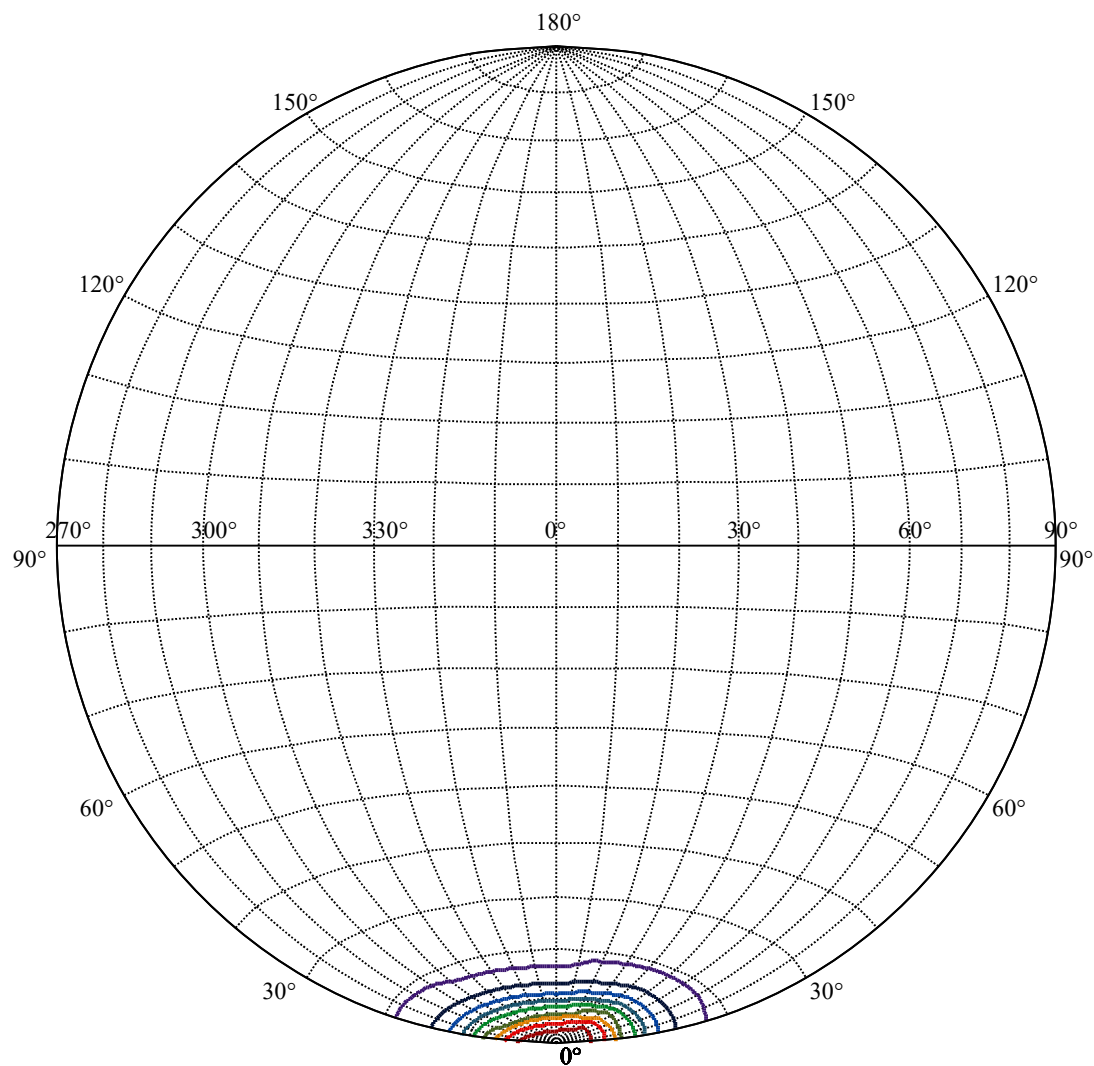
ZONAL LUMEN SUMMARY

0-10	1324.72
10-20	1071.18
20-30	349.36
30-40	134.74
40-50	70.81
50-60	63.38
60-70	45.87
70-80	27.11
80-90	11.40
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







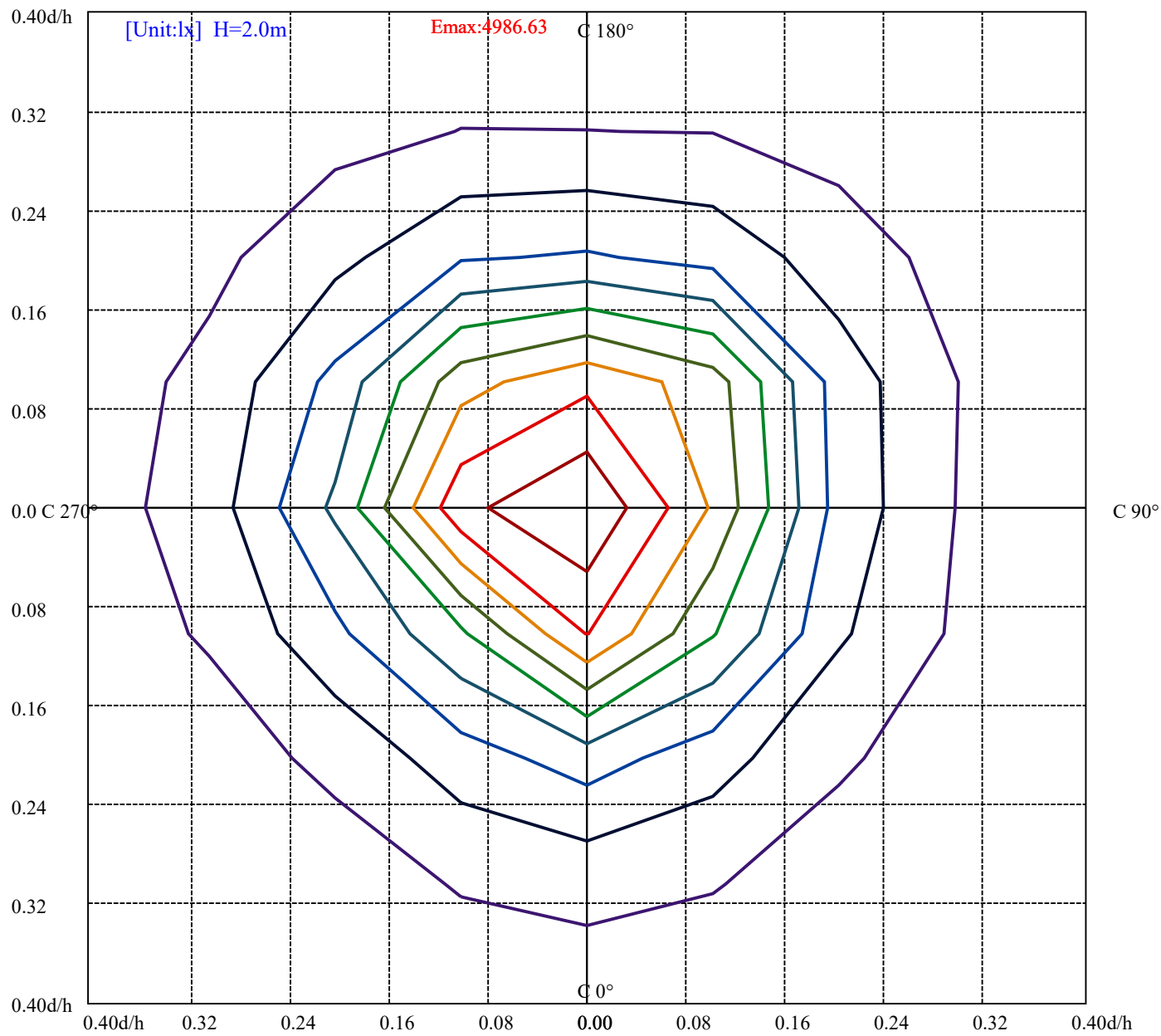


House

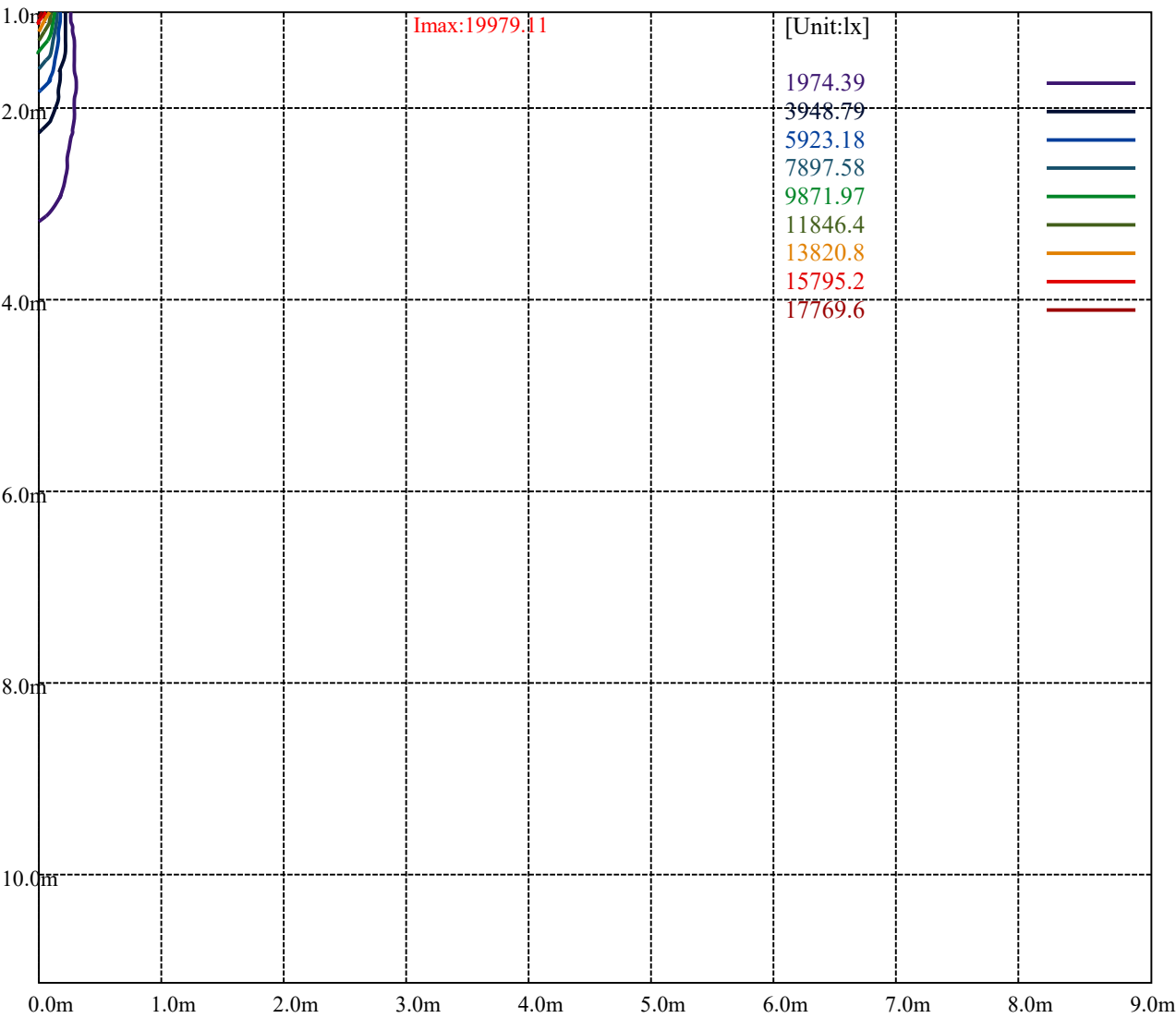
[Unit:cd]

Road

Imax:19979.11	
(10%Imax) 1997.84	—
(20%Imax) 3995.68	—
(30%Imax) 5993.53	—
(40%Imax) 7991.37	—
(50%Imax) 9989.21	—
(60%Imax) 11987.1	—
(70%Imax) 13984.9	—
(80%Imax) 15982.7	—
(90%Imax) 17980.6	—



(10%Emax)	498.66	
(20%Emax)	997.3225	
(30%Emax)	1495.983	
(40%Emax)	1994.645	
(50%Emax)	2493.305	
(60%Emax)	2991.975	
(70%Emax)	3490.625	
(80%Emax)	3989.3	
(90%Emax)	4487.95	



Luminance Table

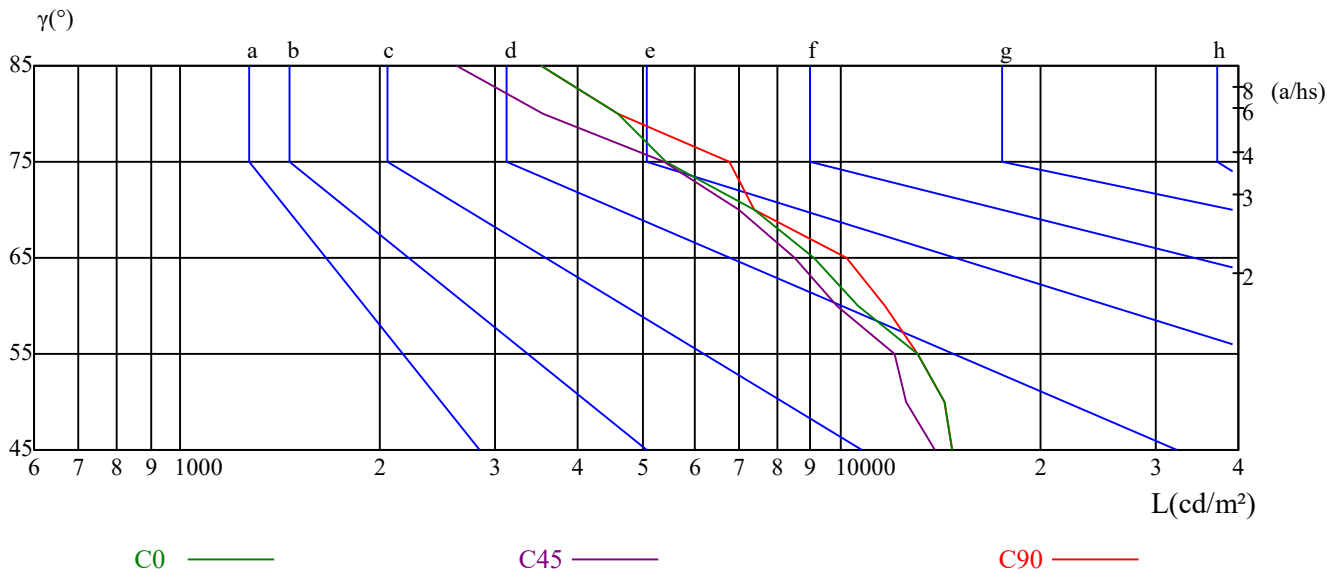
γ	45	50	55	60	65	70	75	80	85
C0	14750	14353	13034	10614	9093	7401	5439	4583	3517
C45	13879	12532	12071	9876	8495	7022	5395	3531	2610
C90	14750	14353	13034	11675	10230	7401	6799	4583	3517

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
19054	20175	19054	16472	18302	16472	21740	21740	21740

Glare Table

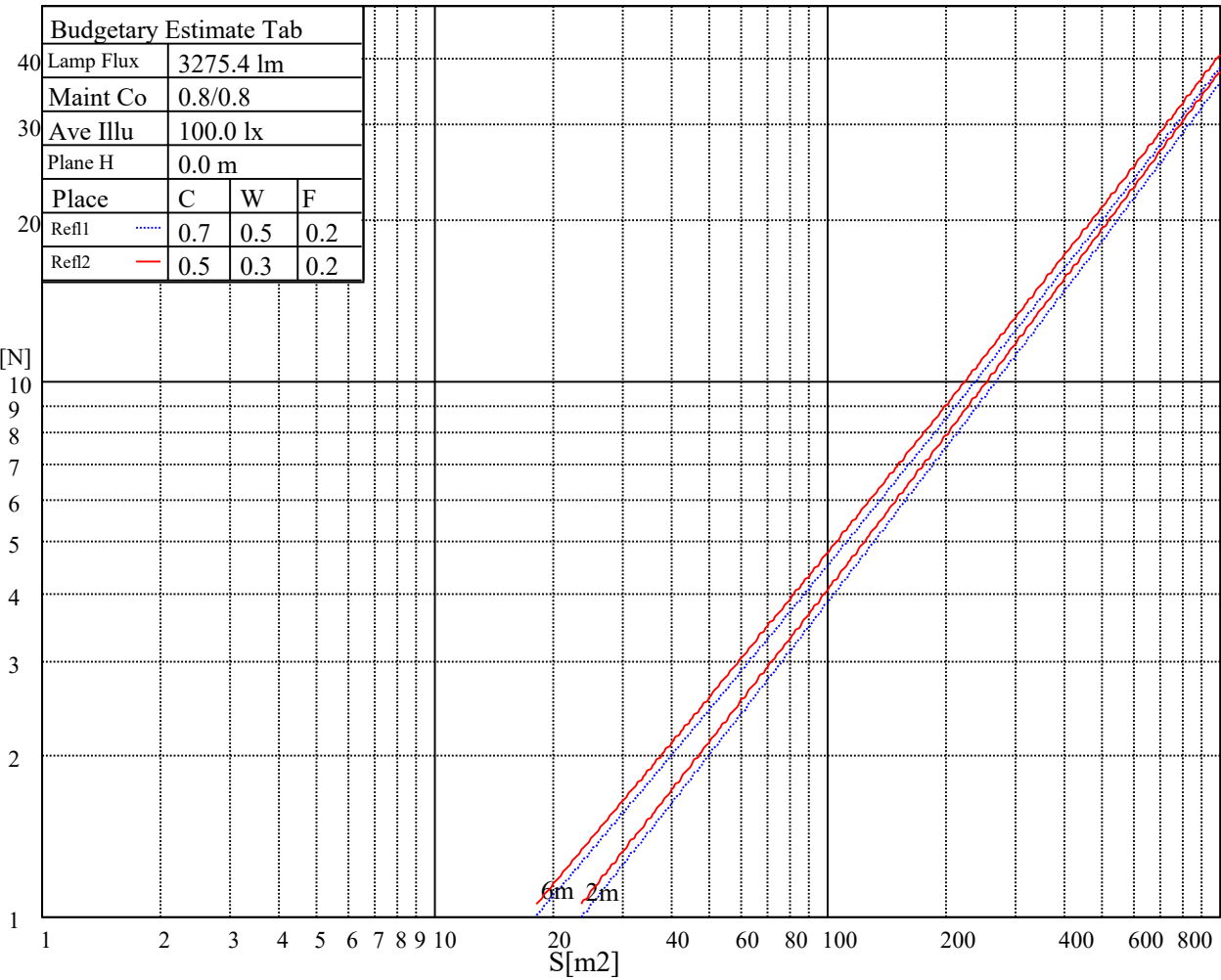
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

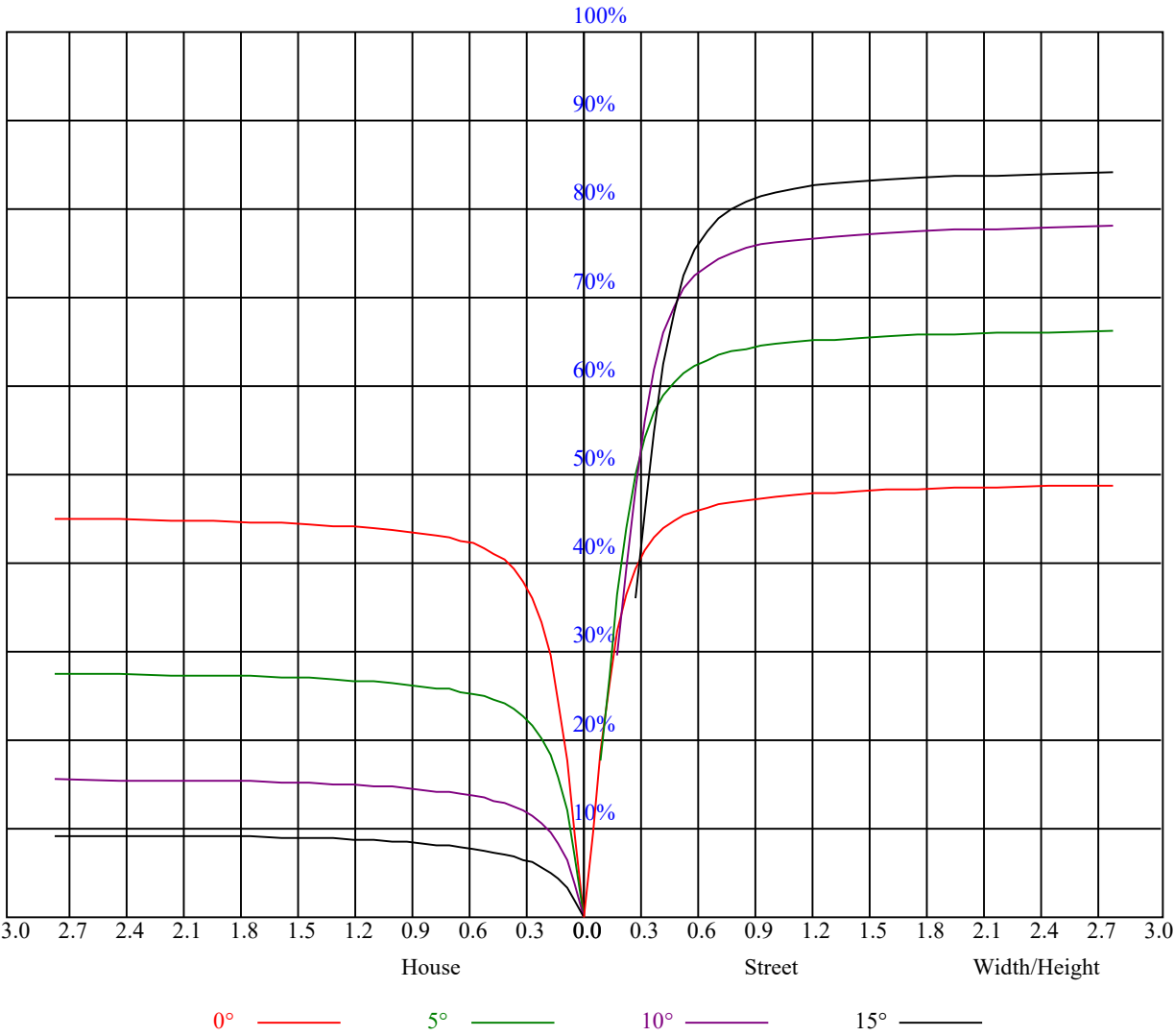


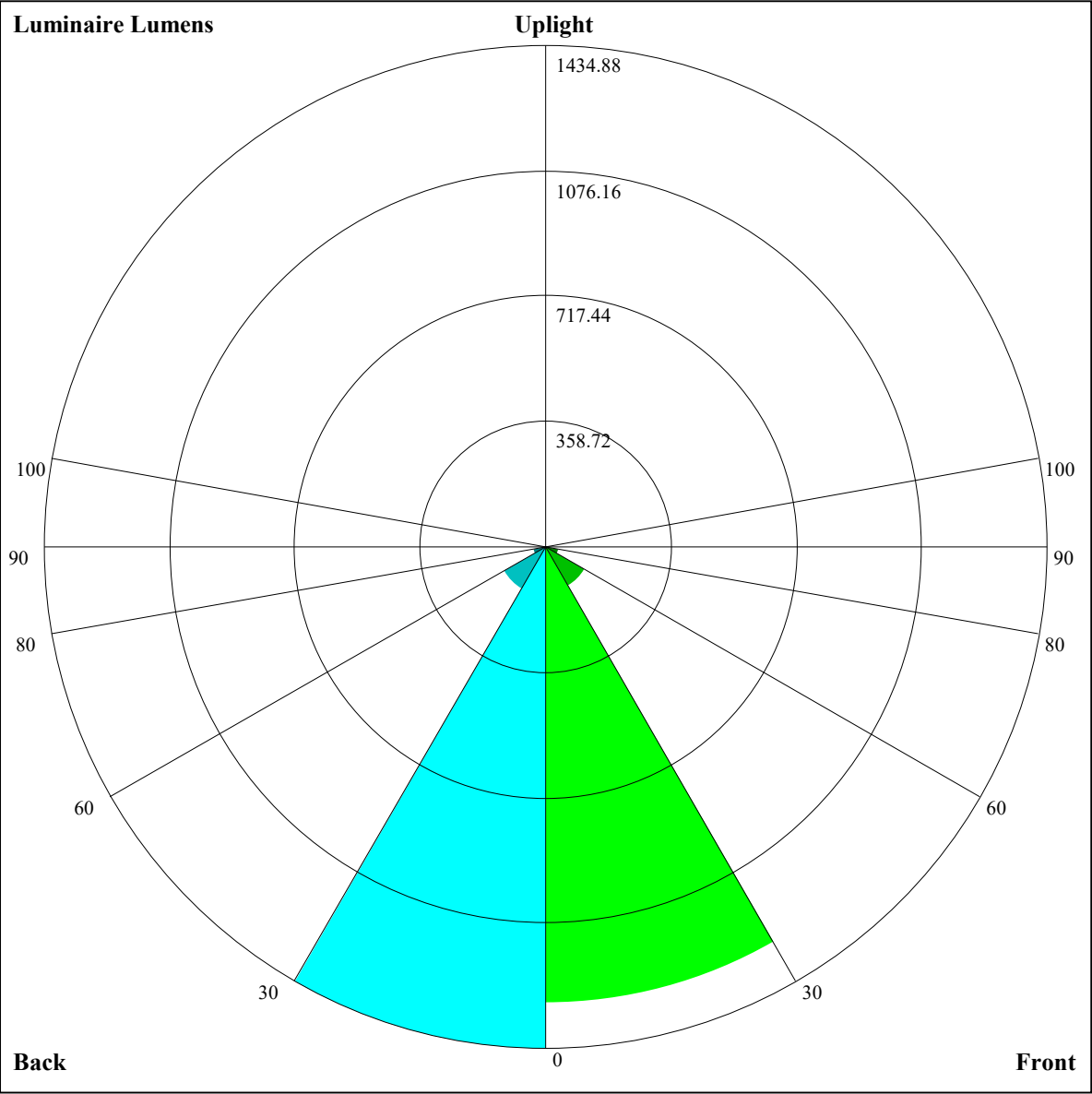
Illumination assessment according UGR											
Rf of Ceiling		70	70	50	50	30	70	70	50	50	30
Rf of Wall		50	30	50	30	30	50	30	50	30	30
Rf of Floor		20	20	20	20	20	20	20	20	20	20
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	14.58	15.57	14.94	15.88	16.19	14.86	15.85	15.22	16.16	16.47
	3H	15.68	16.56	16.07	16.90	17.25	15.97	16.85	16.36	17.19	17.53
	4H	16.05	16.87	16.45	17.22	17.59	16.36	17.17	16.76	17.53	17.89
	6H	16.33	17.07	16.74	17.45	17.85	16.65	17.40	17.07	17.77	18.17
	8H	16.39	17.11	16.82	17.49	17.90	16.73	17.44	17.15	17.83	18.23
	12H	16.44	17.11	16.86	17.51	17.92	16.78	17.45	17.20	17.85	18.27
4H	2H	15.06	15.87	15.46	16.23	16.59	15.28	16.10	15.68	16.45	16.82
	3H	16.29	16.98	16.72	17.37	17.79	16.53	17.21	16.95	17.61	18.02
	4H	16.80	17.39	17.24	17.82	18.27	17.06	17.65	17.49	18.07	18.52
	6H	17.13	17.65	17.60	18.10	18.55	17.40	17.93	17.88	18.38	18.83
	8H	17.25	17.74	17.74	18.20	18.67	17.54	18.03	18.03	18.49	18.96
	12H	17.35	17.80	17.84	18.25	18.77	17.66	18.10	18.14	18.55	19.07
8H	4H	16.93	17.42	17.42	17.88	18.35	17.16	17.65	17.65	18.11	18.58
	6H	17.37	17.76	17.87	18.24	18.75	17.62	18.02	18.12	18.49	19.01
	8H	17.61	17.94	18.14	18.47	18.96	17.87	18.21	18.41	18.73	19.23
	12H	17.78	18.03	18.32	18.55	19.07	18.05	18.31	18.60	18.83	19.35
12H	4H	16.92	17.37	17.41	17.82	18.34	17.15	17.60	17.64	18.05	18.57
	6H	17.43	17.77	17.97	18.29	18.79	17.68	18.01	18.21	18.53	19.03
	8H	17.68	17.93	18.22	18.45	18.97	17.93	18.19	18.47	18.70	19.23
Variation with the observer position at spacings:											
S = 1.0H		0.8/-0.7					0.6/-0.7				
S = 1.5H		1.3/-0.9					1.0/-1.0				
S = 2.0H		2.7/-1.2					2.4/-1.2				
Standard tables:		BK3					BK3				
Uncorrected UGR		-0.8					-1.1				

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	1.13	1.13	1.13	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	0.97	0.97	0.97	0.95
1	1.06	1.04	1.02	1.04	1.02	1.01	1.00	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.90
2	1.01	0.98	0.95	0.99	0.96	0.94	0.96	0.94	0.92	0.93	0.92	0.90	0.91	0.90	0.88	0.87
3	0.96	0.93	0.90	0.95	0.92	0.89	0.93	0.90	0.88	0.90	0.88	0.86	0.88	0.86	0.85	0.84
4	0.92	0.88	0.85	0.91	0.88	0.85	0.89	0.86	0.84	0.88	0.85	0.83	0.86	0.84	0.82	0.81
5	0.89	0.85	0.82	0.88	0.84	0.81	0.87	0.83	0.81	0.85	0.82	0.80	0.84	0.81	0.79	0.78
6	0.86	0.82	0.79	0.85	0.81	0.79	0.84	0.81	0.78	0.83	0.80	0.78	0.82	0.79	0.77	0.76
7	0.83	0.79	0.76	0.83	0.79	0.76	0.82	0.78	0.76	0.81	0.78	0.75	0.80	0.77	0.75	0.74
8	0.81	0.77	0.74	0.80	0.77	0.74	0.79	0.76	0.74	0.79	0.76	0.73	0.78	0.75	0.73	0.72
9	0.79	0.75	0.72	0.78	0.75	0.72	0.78	0.74	0.72	0.77	0.74	0.72	0.76	0.73	0.71	0.70
10	0.77	0.73	0.70	0.76	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.70	0.75	0.72	0.70	0.69





Luminaire Lumens:

FL=1303.99,FM=131.6,FH=35.95,FVH=5.93

BL=1434.88,BM=139.15,BH=37.16,BVH=6.25

UL=0,UH=0

BUG Rating:B3-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	19744.64	19382.27	18577.59	17831.53	16627.17	14847.29	13536.35	10125.79	10125.79
45.0	19947.14	19920.49	19702.01	19185.09	18407.06	17799.55	16568.55	14426.30	13403.13
90.0	19979.11	19872.53	19414.24	18753.44	17980.74	16760.40	15268.28	13594.97	10030.94
135.0	19856.55	19968.46	19872.53	19526.15	18902.66	17986.07	16803.03	15321.57	13658.92
180.0	19744.64	19936.48	19936.48	19696.68	19201.08	18412.39	17341.26	15961.05	14378.33
225.0	19947.14	19760.62	19328.98	18614.89	17586.39	16286.12	14724.72	10616.59	9947.80
270.0	19979.11	19947.14	19691.35	19153.12	18369.76	17271.98	15907.76	14309.06	12609.11
315.0	19856.55	19520.82	18923.97	18039.36	16904.28	15513.41	13920.04	10491.90	10491.90
360.0	19744.64	19382.27	18577.59	17831.53	16627.17	14847.29	13536.35	10125.79	10125.79
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	8525.49	7093.59	5872.18	4867.14	4004.37	3278.56	2672.12	2193.04	1829.61
45.0	11617.91	9912.63	8303.27	6896.42	5702.72	4706.20	3880.20	3171.45	2697.17
90.0	10030.94	8396.00	6960.90	5748.55	4742.44	3903.65	3190.63	2608.17	2149.35
135.0	11911.01	10221.71	8633.67	7765.05	6475.43	4983.31	4445.08	3672.37	3011.58
180.0	12673.05	10951.79	9326.44	7844.98	6550.03	5446.93	4519.68	4024.09	3022.24
225.0	9628.06	8369.35	6993.94	5593.48	4817.58	3969.73	3244.46	2628.96	2136.02
270.0	10909.16	9257.17	7743.73	6432.80	5335.02	4418.43	3629.74	2958.29	2841.05
315.0	9202.28	7711.76	6409.88	5304.65	4391.26	3621.75	2969.48	2429.12	2006.00
360.0	8525.49	7093.59	5872.18	4867.14	4004.37	3278.56	2672.12	2193.04	1829.61
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1651.08	1335.07	1017.95	1017.95	913.12	797.75	699.27	610.92	534.02
45.0	2697.17	1727.29	1571.68	1280.19	1120.32	1033.99	907.16	795.78	698.26
90.0	1802.96	1636.70	1332.41	1025.89	1025.89	925.33	815.71	715.95	632.77
135.0	2782.43	2268.72	1658.54	1416.61	1225.83	1069.16	934.87	817.63	713.71
180.0	2899.67	2899.67	1817.88	1527.45	1309.50	1133.64	986.56	857.60	746.75
225.0	1766.72	1489.62	1056.10	1027.00	971.69	846.78	740.94	684.24	567.27
270.0	2841.05	1781.64	1508.27	1298.30	1125.11	983.36	859.73	753.15	660.42
315.0	1680.93	1431.00	1024.39	1024.39	996.26	869.53	760.18	663.94	581.50
360.0	1651.08	1335.07	1017.95	1017.95	913.12	797.75	699.27	610.92	534.02
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	467.30	408.73	356.99	311.27	271.46	238.85	209.06	183.05	161.52
45.0	614.06	543.18	477.11	419.55	368.93	324.16	283.13	268.21	236.39
90.0	559.28	495.97	436.66	382.78	335.94	293.79	255.05	221.21	191.36
135.0	656.69	541.59	472.84	435.54	381.72	333.22	288.99	274.60	267.14
180.0	651.36	569.83	498.42	433.94	377.99	328.96	287.39	271.94	271.94
225.0	525.01	461.81	405.70	356.88	312.76	274.23	242.36	211.24	185.88
270.0	582.62	514.41	452.59	397.70	348.68	303.38	273.54	273.54	209.11
315.0	509.88	449.66	396.16	348.68	307.48	268.48	235.38	205.38	180.39
360.0	467.30	408.73	356.99	311.27	271.46	238.85	209.06	183.05	161.52
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	149.90	130.67	123.21	111.48	102.69	96.99	92.88	89.37	86.54
45.0	190.88	167.49	151.66	132.27	121.98	112.66	104.40	97.15	92.24
90.0	177.99	158.00	139.89	124.75	113.67	105.57	99.65	94.22	90.06
135.0	194.46	171.86	151.88	136.85	124.06	112.55	103.86	97.84	94.00
180.0	197.81	173.89	154.17	138.50	123.85	116.17	107.27	99.17	94.38
225.0	167.65	150.01	134.45	123.74	112.02	105.25	100.56	95.18	91.34
270.0	185.08	163.60	146.01	133.07	121.39	111.11	103.92	98.59	94.16
315.0	161.15	142.87	127.74	117.88	107.17	100.98	96.51	92.30	89.53
360.0	149.90	130.67	123.21	111.48	102.69	96.99	92.88	89.37	86.54

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	84.20	82.71	81.48	80.09	78.76	77.38	75.99	74.18	72.21
45.0	89.15	86.92	84.84	83.08	81.53	80.47	79.24	78.02	76.58
90.0	87.18	85.00	83.35	81.85	80.52	79.35	77.80	76.36	74.71
135.0	91.18	87.24	85.64	83.93	82.33	81.32	79.88	78.66	77.43
180.0	91.02	88.57	86.92	84.94	83.29	81.85	81.16	79.56	78.76
225.0	88.99	87.18	85.48	83.77	82.55	80.89	79.14	77.38	75.09
270.0	91.29	88.94	86.97	85.21	83.77	82.87	80.68	79.03	77.86
315.0	87.13	85.58	83.93	82.33	80.79	79.51	77.96	76.31	74.23
360.0	84.20	82.71	81.48	80.09	78.76	77.38	75.99	74.18	72.21
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	69.92	67.41	64.69	63.10	59.26	57.66	55.00	51.48	50.04
45.0	74.77	72.90	71.57	68.16	65.55	63.95	60.06	58.46	55.74
90.0	72.74	70.34	68.00	66.51	62.67	59.90	58.30	55.53	53.02
135.0	75.67	73.65	71.68	69.17	66.51	63.79	61.07	58.35	55.63
180.0	77.00	75.30	73.38	71.09	68.53	65.97	63.10	60.16	57.29
225.0	72.69	70.08	67.47	64.59	61.60	58.78	55.85	53.24	50.63
270.0	75.83	73.49	71.09	68.32	65.60	62.78	59.79	57.02	54.41
315.0	71.99	69.54	66.72	64.00	61.28	58.35	55.74	53.13	50.63
360.0	69.92	67.41	64.69	63.10	59.26	57.66	55.00	51.48	50.04
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	47.43	45.03	42.79	40.66	38.69	36.66	34.59	32.61	30.59
45.0	53.13	50.57	47.91	45.51	43.22	40.98	38.90	36.72	34.69
90.0	50.52	47.85	45.35	43.11	40.93	38.80	36.72	34.64	32.56
135.0	53.08	50.68	48.01	46.58	43.48	42.21	40.07	37.94	35.86
180.0	54.62	52.06	49.45	46.68	44.39	42.10	39.97	37.78	35.65
225.0	47.96	45.40	43.11	40.87	38.69	37.46	34.64	33.36	31.28
270.0	51.90	49.29	46.79	44.55	42.37	40.23	38.21	36.18	34.05
315.0	49.13	46.52	43.32	42.05	39.91	37.89	35.81	33.73	31.65
360.0	47.43	45.03	42.79	40.66	38.69	36.66	34.59	32.61	30.59
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	28.51	26.54	24.62	22.70	20.94	19.45	17.96	16.52	15.40
45.0	32.61	30.38	28.40	26.43	24.51	23.45	20.89	19.40	18.44
90.0	30.54	28.46	26.49	24.67	22.81	21.00	19.82	18.01	16.57
135.0	33.79	31.65	29.52	27.55	25.63	23.77	21.80	20.30	18.81
180.0	34.00	31.55	29.90	27.82	25.47	24.03	22.17	20.46	19.02
225.0	28.46	27.39	25.47	23.61	21.85	20.14	18.60	17.21	15.88
270.0	32.08	30.06	28.46	26.65	24.78	22.81	21.21	19.66	18.23
315.0	29.63	27.60	25.74	23.93	22.01	20.41	18.92	17.53	16.09
360.0	28.51	26.54	24.62	22.70	20.94	19.45	17.96	16.52	15.40
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	13.91	12.90	11.88	10.60	9.49	8.31	7.35	6.45	5.76
45.0	16.41	15.08	13.96	12.47	11.08	10.02	8.90	7.94	6.93
90.0	15.19	14.12	12.63	11.72	10.55	9.33	8.31	7.35	6.50
135.0	17.37	15.99	14.39	13.16	11.94	10.66	9.33	8.26	7.41
180.0	17.64	15.99	14.81	13.43	12.04	10.98	9.86	8.58	7.67
225.0	14.65	13.59	12.31	11.24	10.13	9.01	7.94	6.98	6.02
270.0	16.73	15.29	14.18	12.84	11.62	10.28	9.17	8.05	7.14
315.0	14.81	13.80	12.42	11.40	10.18	9.06	8.26	7.14	6.23
360.0	13.91	12.90	11.88	10.60	9.49	8.31	7.35	6.45	5.76

Intensity data(cd)

C/ $\gamma(^{\circ})$	90.0
0.0	5.65
45.0	6.08
90.0	6.02
135.0	6.50
180.0	6.66
225.0	5.60
270.0	6.29
315.0	5.81
360.0	5.65