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Nata

Client: NT

LumCAT: 62-0094-1

Luminaire: 92.70.412.00

Report No: 20261006-B005

Ballast type: DC

Test No: 20261006-C005

LampCAT: CITIZEN CLU038

Lamp flux(lm): 2335.0

Number of Lamps: 1

Length(mm): 0

Phm Type: C

Voltage(V): 34.670

Current(A): 0.521

Power (W): 18.060

PF: 0.000

Width(mm): 0

Height(mm): 0

Photometric Results

Lumens(lm): 2073.23, Efficiency(%): 88.79% , Luminous Efficacy(lm/W): 114.80

Central intensity(cd): 13504.400, Maximum intensity(cd): 13529.790

Angle of maximum intensity: C=180.0 γ =1.0

Beam Angle(50%Imax): [C0/180]Total=19.0

[C90/270]Total=18.8

Field angle(10%Imax): [C0/180]Total=34.6

[C90/270]Total=33.9

Maximum s/h(1/2): C0_180=0.34 C90_270=0.34

Maximum s/h(1/4): C0_180=0.32 C90_270=0.32

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 88.79%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 96.845%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	13396.269	0.000	0	0.00%	0.00%
1.0	13324.325	12.785	12.785	0.55%	0.62%
2.0	13092.094	37.915	50.701	1.62%	2.45%
3.0	12724.862	61.746	112.446	2.64%	5.42%
4.0	12191.313	83.402	195.849	3.57%	9.45%
5.0	11483.405	101.847	297.696	4.36%	14.36%
6.0	10594.791	116.027	413.723	4.97%	19.96%
7.0	9570.224	125.164	538.887	5.36%	25.99%
8.0	8448.955	128.960	667.847	5.52%	32.21%
9.0	7342.605	127.982	795.829	5.48%	38.39%
10.0	6110.458	121.745	917.574	5.21%	44.26%
11.0	5074.041	111.756	1029.33	4.79%	49.65%
12.0	4028.578	99.505	1128.835	4.26%	54.45%
13.0	3209.475	85.897	1214.732	3.68%	58.59%
14.0	2512.179	73.237	1287.969	3.14%	62.12%
15.0	2024.684	62.284	1350.253	2.67%	65.13%
16.0	1697.593	54.542	1404.795	2.34%	67.76%
17.0	1422.015	48.581	1453.375	2.08%	70.10%
18.0	1209.051	43.381	1496.756	1.86%	72.19%
19.0	1040.617	39.140	1535.896	1.68%	74.08%
20.0	907.182	35.650	1571.546	1.53%	75.80%
21.0	798.610	32.755	1604.3	1.40%	77.38%
22.0	702.650	30.168	1634.469	1.29%	78.84%
23.0	628.008	27.921	1662.39	1.20%	80.18%
24.0	558.994	25.952	1688.342	1.11%	81.44%
25.0	501.555	24.115	1712.456	1.03%	82.60%
26.0	450.867	22.482	1734.938	0.96%	83.68%
27.0	405.828	20.959	1755.897	0.90%	84.69%
28.0	364.375	19.500	1775.397	0.84%	85.63%
29.0	312.332	17.705	1793.102	0.76%	86.49%
30.0	281.238	16.026	1809.128	0.69%	87.26%
31.0	238.315	14.458	1823.587	0.62%	87.96%
32.0	210.542	12.859	1836.446	0.55%	88.58%
33.0	186.187	11.688	1848.134	0.50%	89.14%
34.0	165.122	10.632	1858.765	0.46%	89.66%
35.0	147.972	9.724	1868.489	0.42%	90.12%
36.0	132.917	8.944	1877.432	0.38%	90.56%
37.0	120.094	8.252	1885.684	0.35%	90.95%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	109.143	7.652	1893.336	0.33%	91.32%
39.0	99.939	7.137	1900.472	0.31%	91.67%
40.0	93.009	6.729	1907.202	0.29%	91.99%
41.0	86.068	6.377	1913.578	0.27%	92.30%
42.0	81.498	6.088	1919.666	0.26%	92.59%
43.0	76.853	5.866	1925.532	0.25%	92.88%
44.0	73.499	5.675	1931.207	0.24%	93.15%
45.0	70.495	5.534	1936.741	0.24%	93.42%
46.0	68.061	5.419	1942.159	0.23%	93.68%
47.0	65.723	5.321	1947.48	0.23%	93.93%
48.0	63.618	5.229	1952.709	0.22%	94.19%
49.0	61.713	5.147	1957.856	0.22%	94.44%
50.0	59.766	5.065	1962.921	0.22%	94.68%
51.0	58.021	4.983	1967.904	0.21%	94.92%
52.0	56.106	4.897	1972.801	0.21%	95.16%
53.0	54.223	4.799	1977.601	0.21%	95.39%
54.0	52.371	4.698	1982.299	0.20%	95.61%
55.0	50.361	4.586	1986.884	0.20%	95.84%
56.0	48.425	4.464	1991.348	0.19%	96.05%
57.0	46.288	4.330	1995.679	0.19%	96.26%
58.0	44.457	4.196	1999.875	0.18%	96.46%
59.0	42.637	4.072	2003.947	0.17%	96.66%
60.0	40.648	3.935	2007.882	0.17%	96.85%
61.0	38.860	3.794	2011.676	0.16%	97.03%
62.0	36.998	3.655	2015.331	0.16%	97.21%
63.0	35.358	3.519	2018.85	0.15%	97.38%
64.0	33.507	3.379	2022.229	0.14%	97.54%
65.0	31.878	3.236	2025.465	0.14%	97.70%
66.0	30.386	3.107	2028.572	0.13%	97.85%
67.0	28.852	2.979	2031.55	0.13%	97.99%
68.0	27.434	2.851	2034.402	0.12%	98.13%
69.0	25.995	2.726	2037.127	0.12%	98.26%
70.0	24.577	2.597	2039.725	0.11%	98.38%
71.0	23.170	2.468	2042.193	0.11%	98.50%
72.0	21.848	2.341	2044.533	0.10%	98.62%
73.0	20.419	2.210	2046.744	0.09%	98.72%
74.0	19.435	2.095	2048.839	0.09%	98.82%
75.0	19.393	2.052	2050.89	0.09%	98.92%

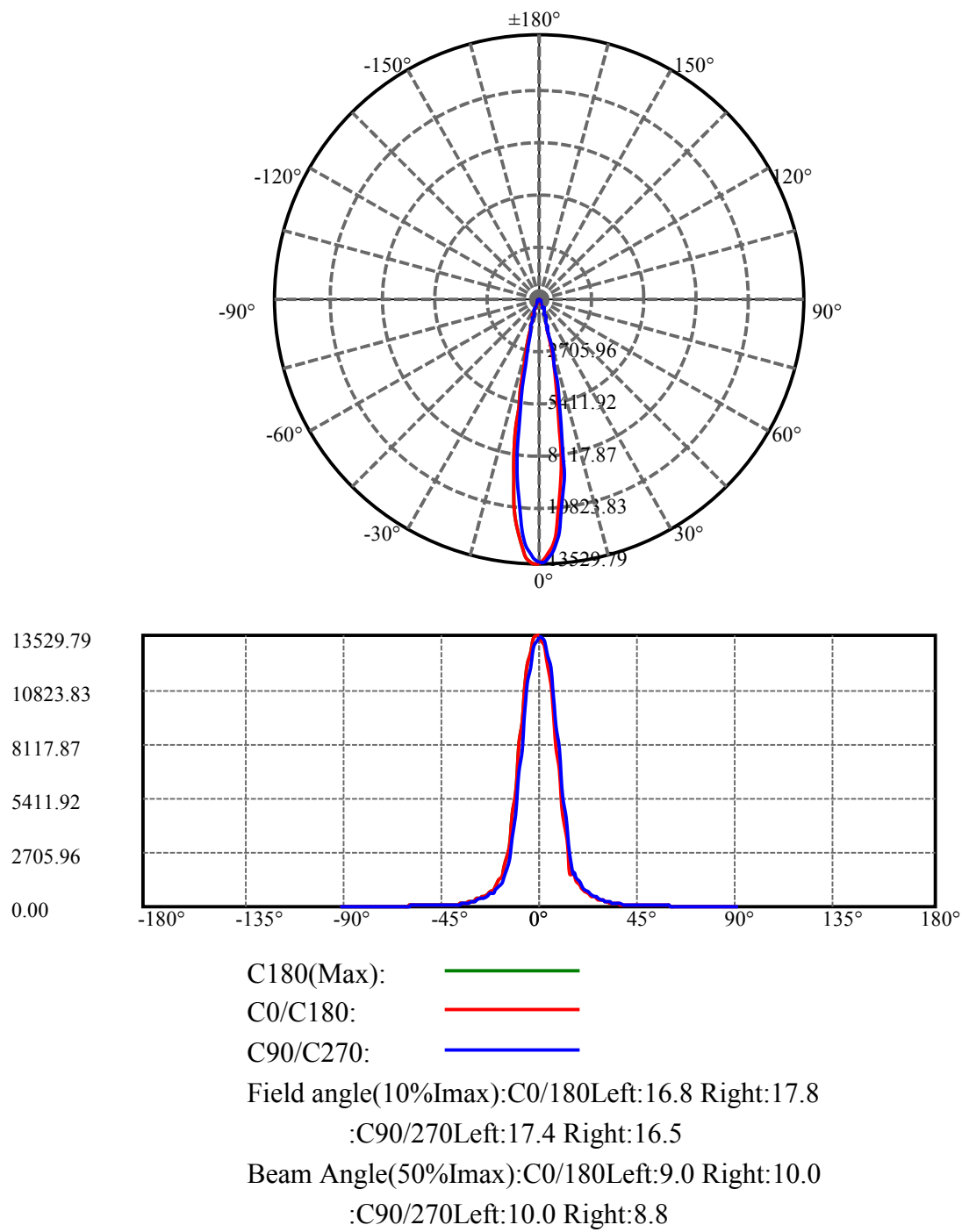
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	19.721	2.076	2052.967	0.09%	99.02%
77.0	20.229	2.130	2055.097	0.09%	99.13%
78.0	20.155	2.162	2057.258	0.09%	99.23%
79.0	19.065	2.107	2059.366	0.09%	99.33%
80.0	17.193	1.955	2061.321	0.08%	99.43%
81.0	15.172	1.750	2063.071	0.07%	99.51%
82.0	13.384	1.549	2064.619	0.07%	99.58%
83.0	12.114	1.386	2066.005	0.06%	99.65%
84.0	11.109	1.265	2067.27	0.05%	99.71%
85.0	10.231	1.165	2068.435	0.05%	99.77%
86.0	9.427	1.075	2069.51	0.05%	99.82%
87.0	8.824	0.999	2070.508	0.04%	99.87%
88.0	8.390	0.943	2071.451	0.04%	99.91%
89.0	8.062	0.902	2072.353	0.04%	99.96%
90.0	7.850	0.872	2073.226	0.04%	100.00%

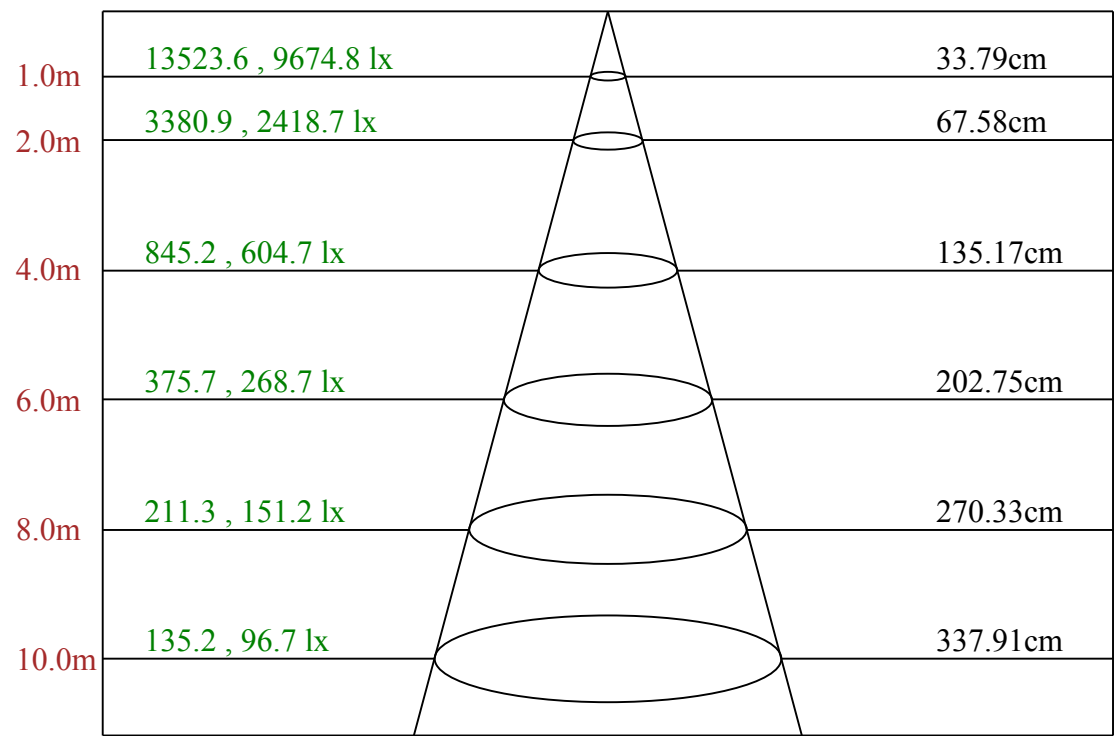
ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1809.13	77.48%	87.26%
0-40	1907.20	81.68%	91.99%
0-60	2007.88	85.99%	96.85%
0-90	2072.35	88.75%	99.96%
0-120	2072.35	88.75%	99.96%
0-180	2073.23	88.79%	100.00%
60-90	64.47	2.76%	3.11%
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%
0-22.86	1658.58	71.03%	80.00%

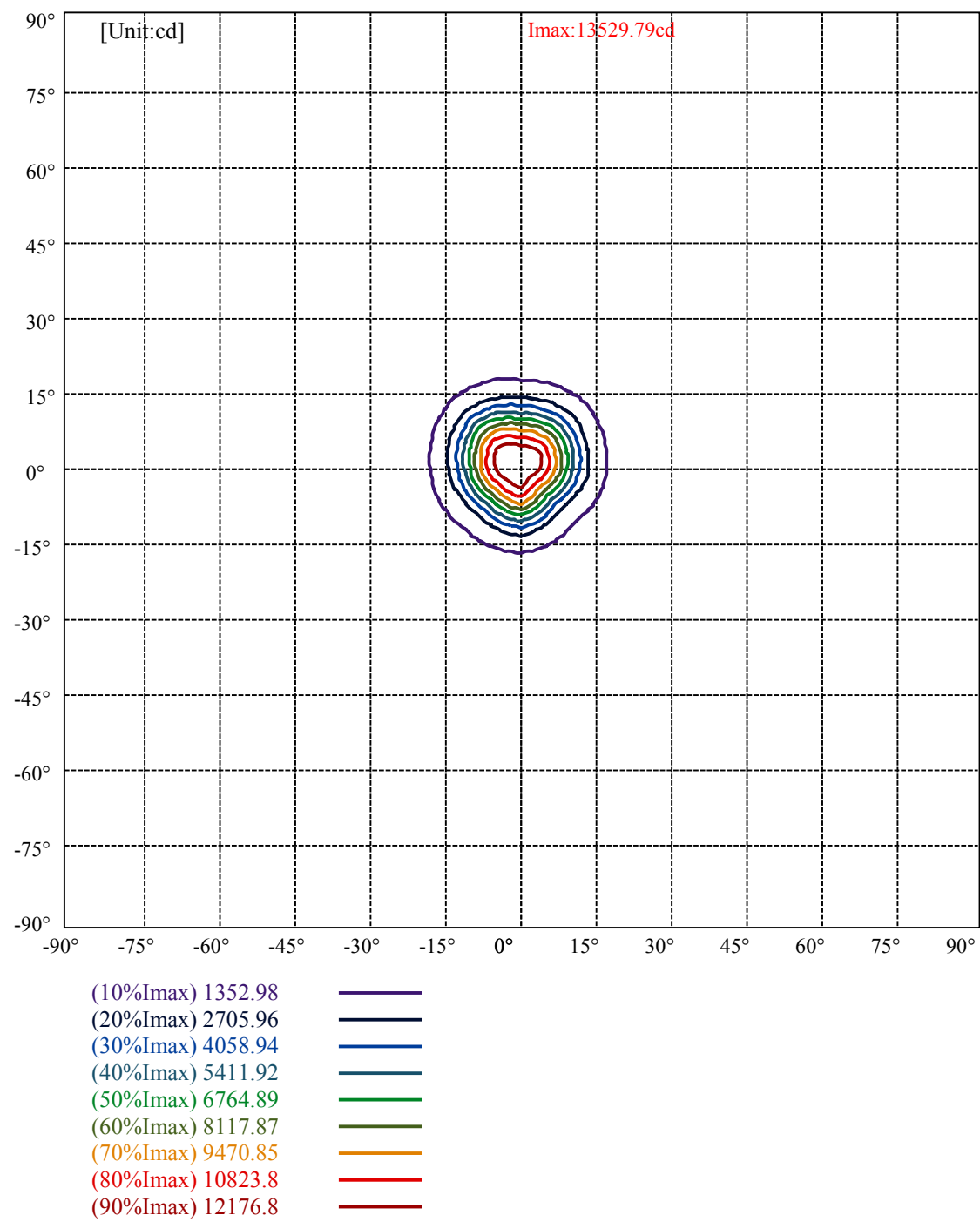
ZONAL LUMEN SUMMARY

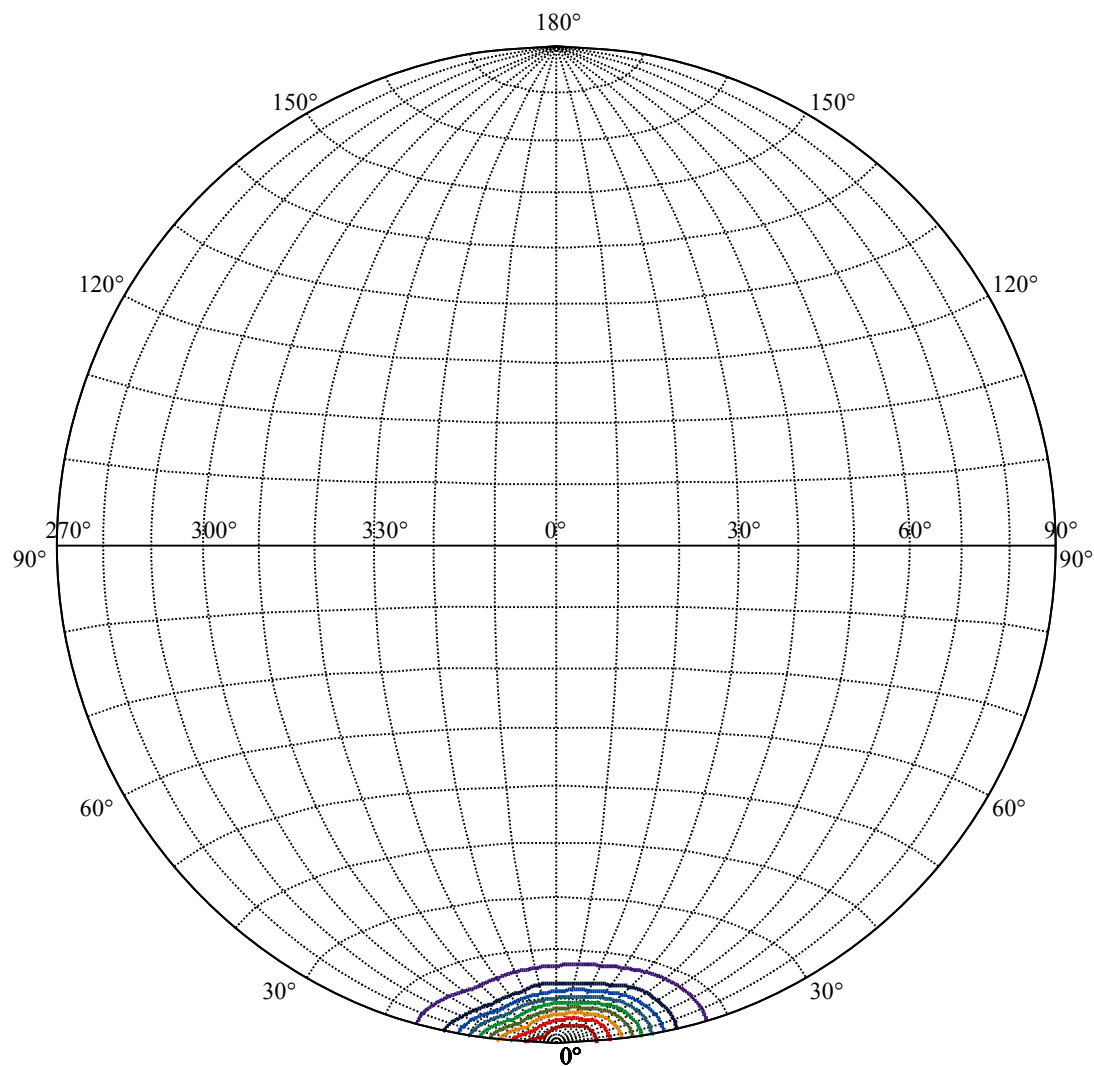
0-10	917.57
10-20	653.97
20-30	237.58
30-40	98.07
40-50	55.72
50-60	44.96
60-70	31.84
70-80	21.60
80-90	11.03
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00





Max , Ave Beam angle of C180 plane 19.18



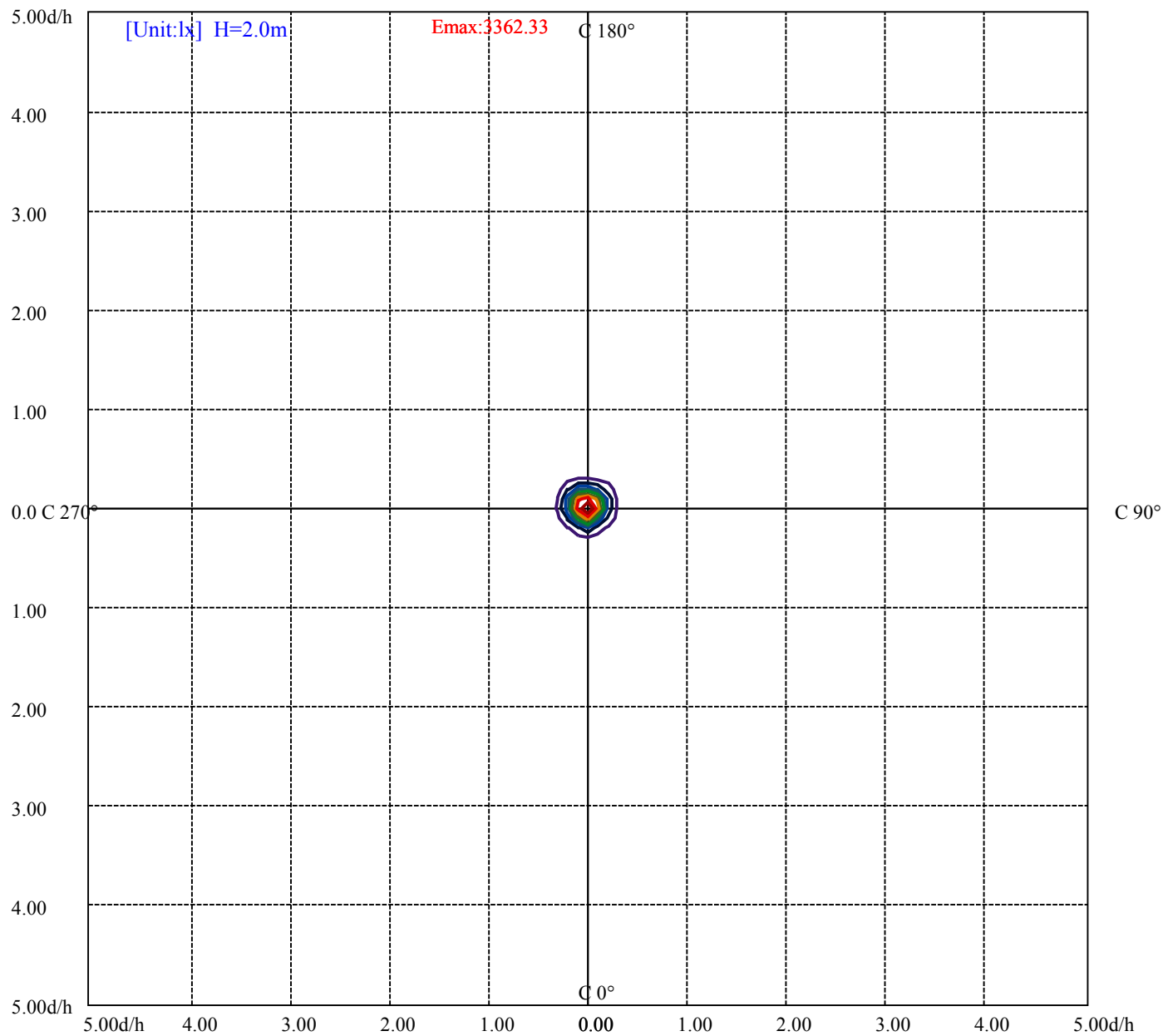


House

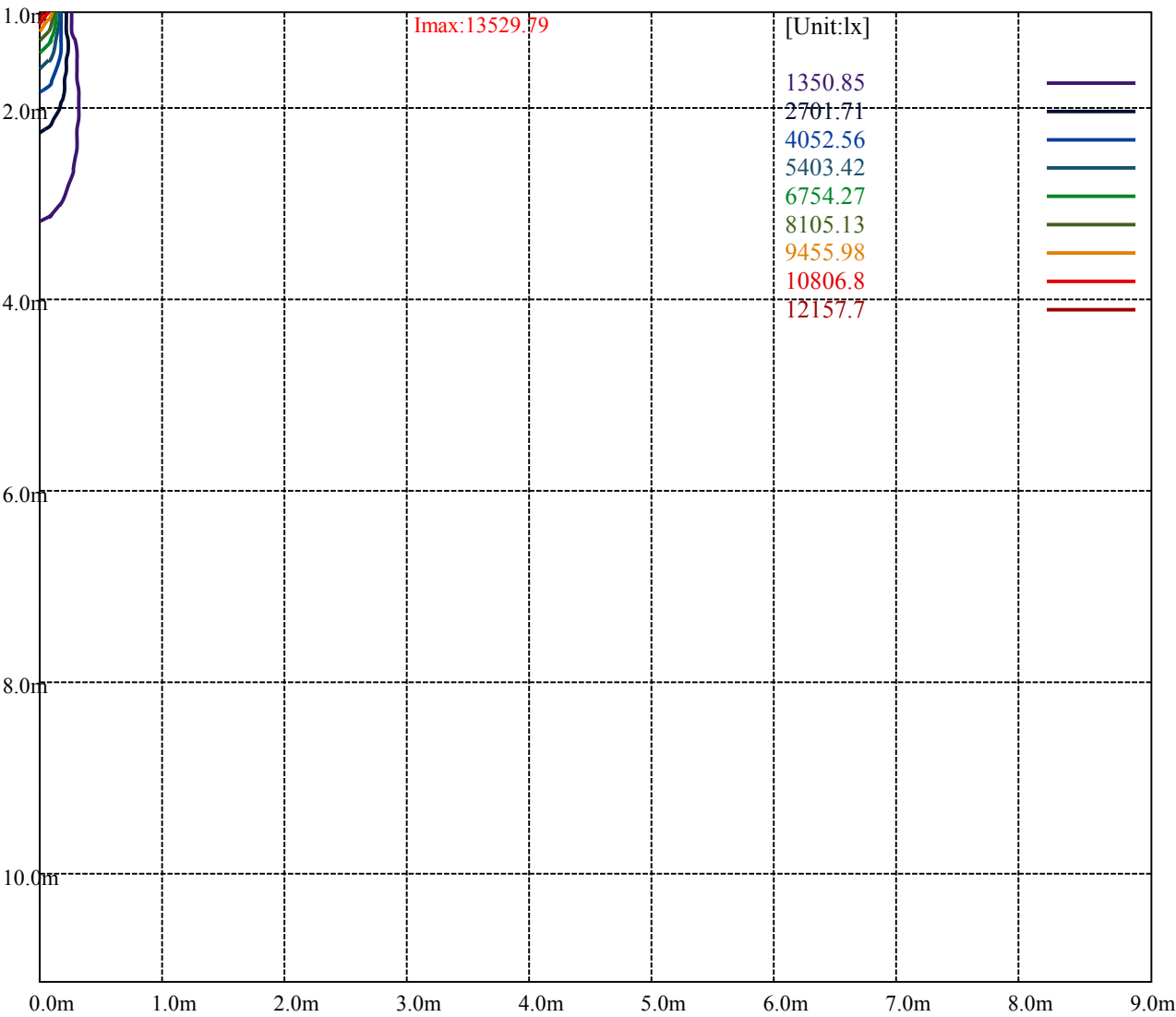
[Unit:cd]

Road

Imax:13529.79	
(10%Imax) 1353.39	—
(20%Imax) 2706.79	—
(30%Imax) 4060.18	—
(40%Imax) 5413.57	—
(50%Imax) 6766.97	—
(60%Imax) 8120.36	—
(70%Imax) 9473.75	—
(80%Imax) 10827.1	—
(90%Imax) 12180.5	—



(10%Emax)	336.2325	
(20%Emax)	672.465	
(30%Emax)	1008.698	
(40%Emax)	1344.93	
(50%Emax)	1681.162	
(60%Emax)	2017.395	
(70%Emax)	2353.627	
(80%Emax)	2689.85	
(90%Emax)	3026.1	



Luminance Limiting Curve(no luminous side)

Appendix Page: 12 Total:20

Luminance Table

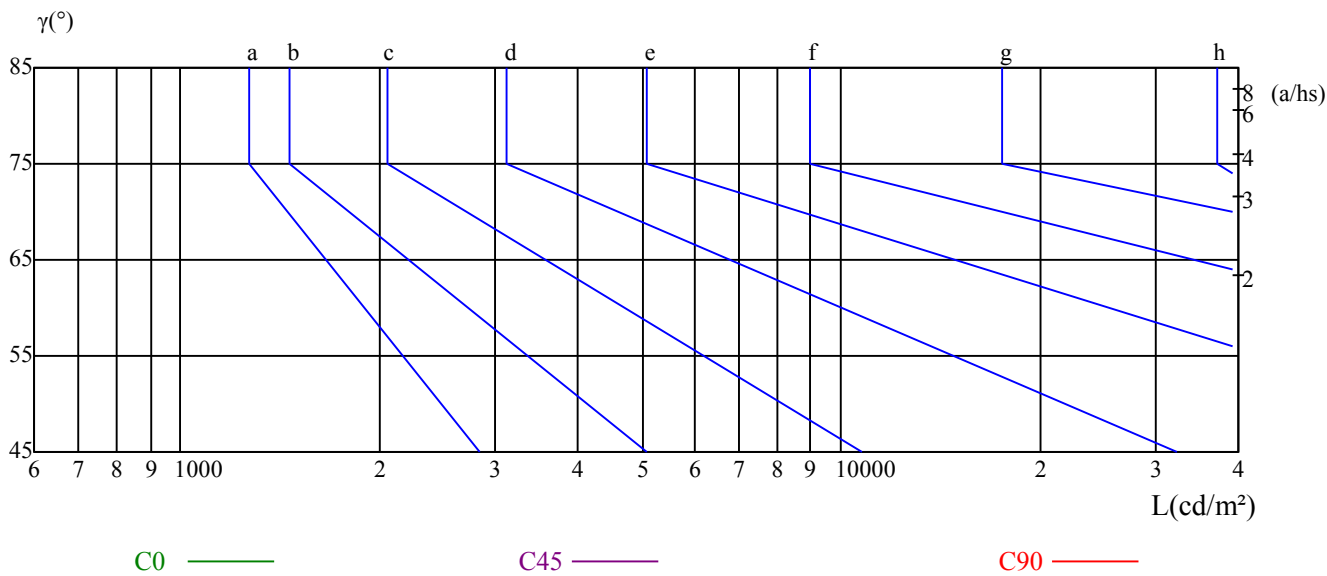
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

Glare Table

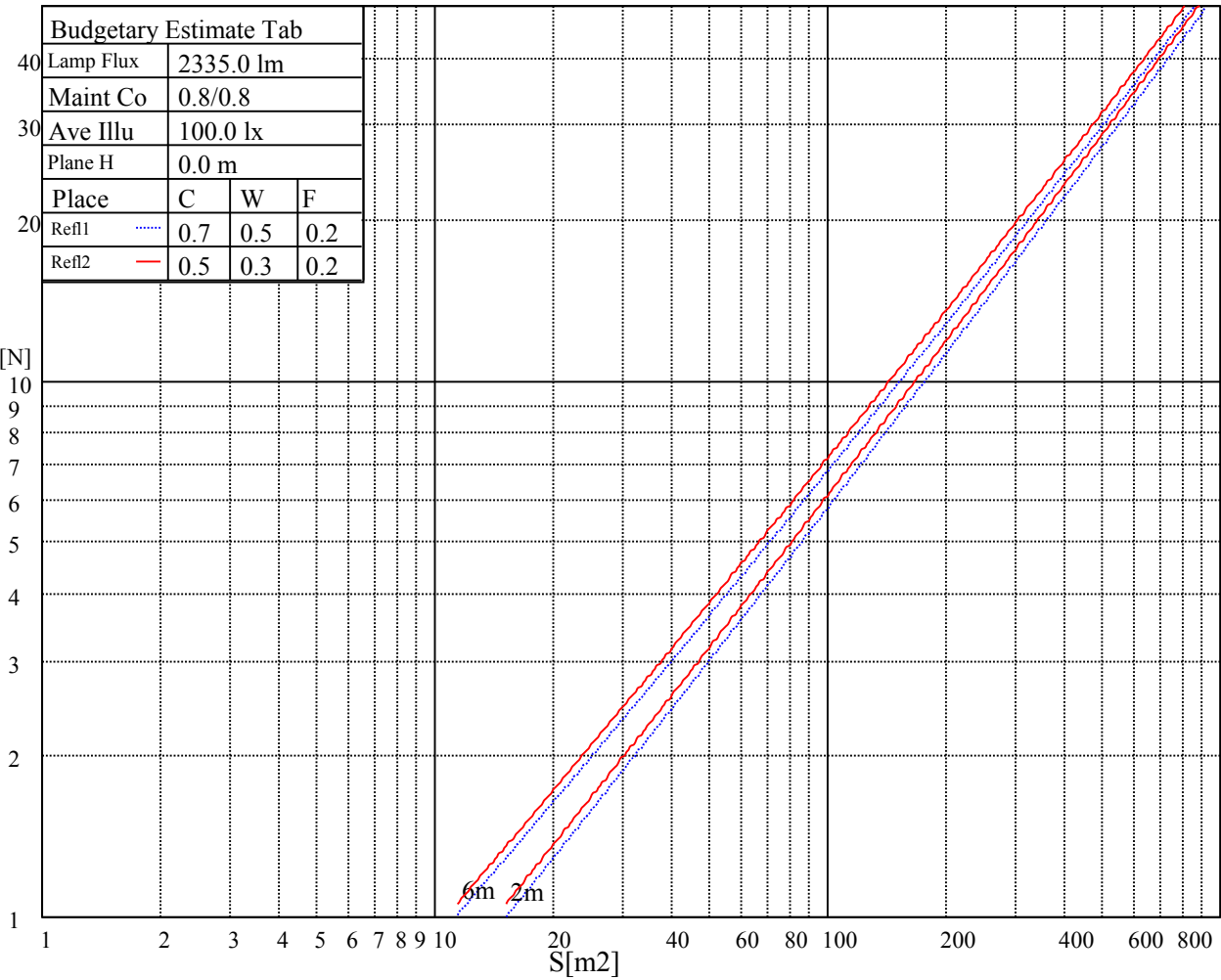
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

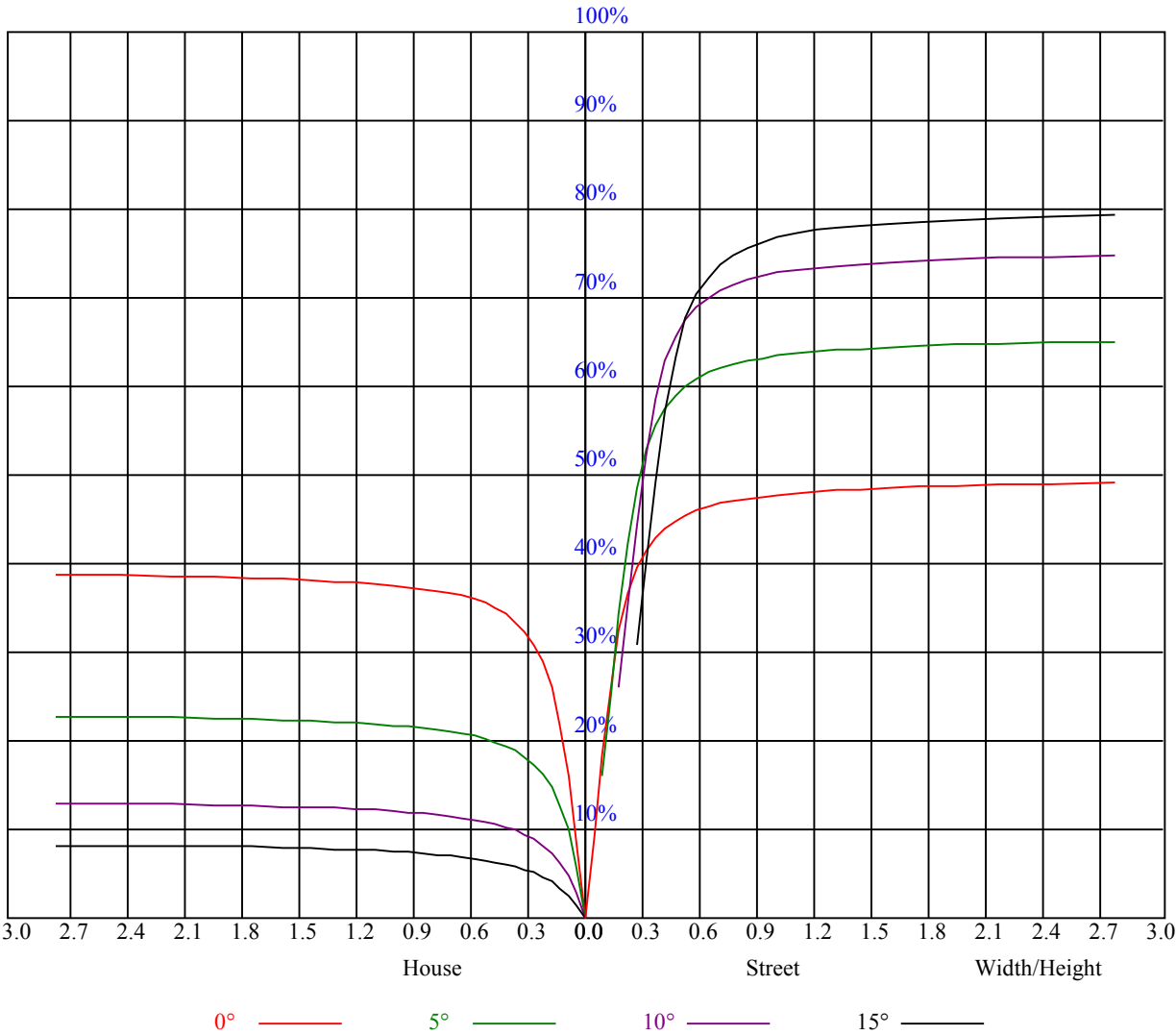


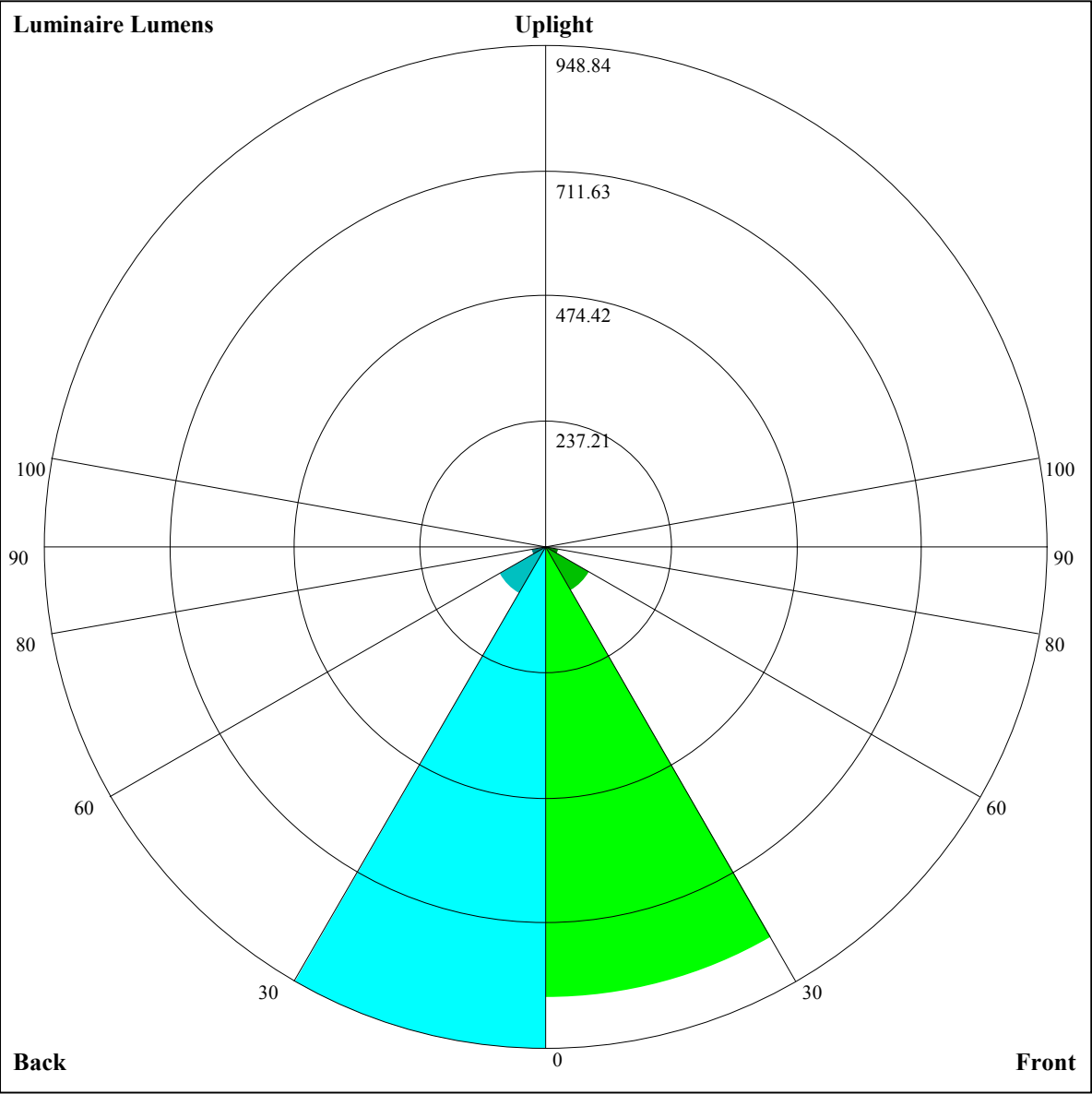
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
4H	12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
8H	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
12H	12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
Variation with the observer position at spacings:											
S = 1.0H		非数字/非数字					非数字/非数字				
S = 1.5H		非数字/非数字					非数字/非数字				
S = 2.0H		非数字/非数字					非数字/非数字				
Standard tables:		BK0					BK0				
Uncorrected UGR		负无穷大					负无穷大				

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	1.06	1.06	1.06	1.03	1.03	1.03	0.99	0.99	0.99	0.94	0.94	0.94	0.91	0.91	0.91	0.89
1	0.99	0.98	0.96	0.98	0.96	0.94	0.94	0.93	0.91	0.91	0.90	0.89	0.88	0.87	0.86	0.85
2	0.94	0.91	0.89	0.93	0.90	0.88	0.90	0.88	0.86	0.87	0.86	0.84	0.85	0.84	0.82	0.81
3	0.90	0.87	0.84	0.89	0.86	0.83	0.87	0.84	0.82	0.85	0.82	0.81	0.83	0.81	0.79	0.78
4	0.86	0.83	0.80	0.85	0.82	0.79	0.84	0.81	0.78	0.82	0.79	0.77	0.80	0.78	0.77	0.75
5	0.83	0.79	0.76	0.82	0.79	0.76	0.81	0.78	0.75	0.80	0.77	0.75	0.78	0.76	0.74	0.73
6	0.80	0.76	0.74	0.80	0.76	0.73	0.78	0.75	0.73	0.77	0.75	0.72	0.76	0.74	0.72	0.71
7	0.78	0.74	0.71	0.77	0.74	0.71	0.76	0.73	0.71	0.75	0.73	0.70	0.74	0.72	0.70	0.69
8	0.76	0.72	0.69	0.75	0.72	0.69	0.74	0.71	0.69	0.74	0.71	0.69	0.73	0.70	0.68	0.67
9	0.74	0.70	0.67	0.73	0.70	0.67	0.72	0.69	0.67	0.72	0.69	0.67	0.71	0.69	0.67	0.66
10	0.72	0.68	0.66	0.71	0.68	0.66	0.71	0.68	0.66	0.70	0.67	0.65	0.70	0.67	0.65	0.64





Luminaire Lumens:

FL=851.74,FM=96.86,FH=26.01,FVH=5.98

BL=948.84,BM=102.74,BH=27.58,BVH=6.2

UL=0,UH=0

BUG Rating:B2-U0-G0

Intensity data(cd)

C/ γ (°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	13504.40	13300.41	12995.71	12556.43	12000.34	11075.23	10186.51	8973.62	7909.69
45.0	13451.07	13495.93	13423.14	13159.07	12778.19	12261.88	11415.48	10591.93	9399.36
90.0	13467.16	13473.93	13308.03	12977.94	12520.03	11903.85	10952.50	10036.70	9016.78
135.0	13162.45	13399.44	13520.48	13479.00	13298.72	13001.64	12516.65	11707.49	10918.64
180.0	13504.40	13529.79	13430.76	13185.30	12679.16	12123.07	11390.09	10519.99	9246.16
225.0	13451.07	13287.72	12871.29	12368.53	11721.03	10910.18	9691.36	8592.74	7446.71
270.0	13467.16	13304.65	13038.88	12609.75	11892.00	11161.56	10261.84	9219.92	7839.44
315.0	13162.45	12802.73	12148.46	11462.88	10641.03	9429.83	8343.90	6919.40	5814.85
360.0	13504.40	13300.41	12995.71	12556.43	12000.34	11075.23	10186.51	8973.62	7909.69
C/ γ (°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	6811.91	5486.45	4512.24	3653.15	2937.94	1678.07	1678.07	1534.95	1299.48
45.0	8354.90	7259.66	6176.27	4898.20	3984.09	3206.25	2561.29	1966.27	1620.94
90.0	7925.77	6513.98	5431.43	4440.30	3571.05	2702.64	1651.41	1651.41	1454.88
135.0	9997.76	8694.31	7576.21	6466.58	5145.35	4190.61	3364.52	2561.29	2076.30
180.0	8133.99	6714.58	5603.25	4600.27	3538.04	2843.99	2300.60	1901.10	1534.61
225.0	6030.68	4966.76	3813.96	3058.97	2097.46	1687.81	1622.38	1390.80	1207.14
270.0	6706.96	5591.40	4549.48	3434.78	2725.49	2182.95	1704.73	1437.27	1190.12
315.0	4778.86	3656.53	2929.48	1676.38	1676.38	1605.11	1314.46	1137.65	992.66
360.0	6811.91	5486.45	4512.24	3653.15	2937.94	1678.07	1678.07	1534.95	1299.48
C/ γ (°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1087.88	954.91	844.03	752.03	655.11	590.19	517.57	466.37	421.17
45.0	1363.64	1164.73	979.37	860.87	744.07	668.74	604.41	532.47	480.84
90.0	1253.52	1088.98	928.50	820.92	715.38	641.66	579.45	521.81	469.67
135.0	1718.28	1399.18	1204.51	1047.93	920.12	793.16	711.06	639.12	575.64
180.0	1315.39	1143.57	1004.76	863.41	770.31	689.05	600.18	539.24	470.68
225.0	1020.17	902.85	805.52	724.60	639.03	578.43	525.19	474.41	414.99
270.0	1039.46	915.04	813.48	709.37	637.42	575.64	507.08	457.14	433.44
315.0	874.08	755.67	677.29	609.75	539.75	487.19	427.01	381.90	340.51
360.0	1087.88	954.91	844.03	752.03	655.11	590.19	517.57	466.37	421.17
C/ γ (°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	369.12	331.45	296.83	257.22	229.37	204.57	182.31	159.38	142.79
45.0	431.75	431.75	330.35	292.43	259.17	230.39	198.40	177.24	159.12
90.0	411.18	366.49	326.20	289.64	249.52	222.77	199.24	174.27	157.94
135.0	503.69	452.06	425.82	425.82	304.28	261.20	230.56	204.41	182.40
180.0	433.44	433.44	332.04	286.93	255.70	226.75	195.10	172.58	154.30
225.0	370.98	329.16	281.94	249.86	215.32	192.30	173.09	156.41	138.81
270.0	433.44	311.73	276.86	245.37	217.44	188.15	168.26	147.02	132.55
315.0	293.02	258.91	228.61	202.63	175.71	158.19	142.53	129.67	115.87
360.0	369.12	331.45	296.83	257.22	229.37	204.57	182.31	159.38	142.79
C/ γ (°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	128.99	117.31	105.04	97.34	90.90	84.64	80.66	76.35	73.72
45.0	139.74	126.37	114.18	102.08	94.29	86.42	81.51	77.11	73.30
90.0	139.99	127.98	118.41	107.66	100.47	94.12	89.04	83.54	79.82
135.0	162.51	141.94	128.31	116.30	106.22	95.81	89.55	82.78	78.29
180.0	138.22	124.59	110.12	100.81	93.44	85.23	80.24	75.33	72.20
225.0	127.21	116.97	108.42	99.28	93.36	88.28	84.13	79.22	75.92
270.0	119.93	106.48	97.67	90.65	84.47	77.95	73.81	70.17	67.12
315.0	106.73	99.11	90.99	85.40	80.92	76.09	73.04	70.34	67.63
360.0	128.99	117.31	105.04	97.34	90.90	84.64	80.66	76.35	73.72

Intensity data(cd)

C/ γ (°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	71.18	69.07	66.53	64.75	62.97	61.11	58.91	57.05	55.10
45.0	69.74	67.46	65.43	63.40	61.36	59.76	58.32	56.79	54.68
90.0	76.68	73.47	70.25	67.97	65.93	63.23	61.19	58.66	56.54
135.0	74.57	71.61	68.56	66.27	63.82	62.04	60.60	58.99	57.13
180.0	69.66	67.03	64.92	63.23	61.62	59.67	58.06	56.62	54.93
225.0	72.28	69.91	67.63	64.92	62.72	60.60	58.49	55.78	53.66
270.0	64.41	62.21	60.43	58.49	57.13	55.27	53.92	52.48	51.12
315.0	65.43	63.73	62.04	59.93	58.15	56.45	54.68	52.48	50.61
360.0	71.18	69.07	66.53	64.75	62.97	61.11	58.91	57.05	55.10
C/ γ (°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	53.24	50.87	49.01	46.64	44.86	43.08	40.80	39.10	37.41
45.0	53.15	51.04	49.26	47.31	45.20	43.34	41.64	39.36	37.66
90.0	54.42	52.22	49.68	47.57	45.62	43.76	41.39	39.61	38.00
135.0	55.52	53.92	52.22	49.85	47.99	46.13	43.93	42.15	39.87
180.0	53.07	51.38	49.68	47.57	45.71	44.01	41.73	39.95	37.92
225.0	51.46	49.35	46.72	44.69	43.00	40.80	39.19	37.50	35.55
270.0	49.26	47.65	46.04	44.10	42.40	40.80	39.27	37.66	35.80
315.0	48.84	46.47	44.77	42.57	40.88	39.19	37.24	35.55	33.77
360.0	53.24	50.87	49.01	46.64	44.86	43.08	40.80	39.10	37.41
C/ γ (°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	35.80	33.69	31.91	30.47	29.12	27.51	26.24	24.71	22.94
45.0	35.97	34.45	32.42	30.98	29.54	28.10	26.41	25.14	23.87
90.0	36.40	34.36	32.84	31.32	29.54	28.19	26.49	25.31	24.04
135.0	38.09	36.48	34.79	32.67	31.15	29.62	28.27	26.66	25.31
180.0	36.31	34.53	32.92	31.49	29.71	28.35	26.92	25.56	23.95
225.0	33.86	31.91	30.47	29.03	27.76	26.49	24.97	23.70	22.43
270.0	34.28	32.33	30.81	29.54	27.68	26.41	25.14	23.36	22.09
315.0	32.16	30.30	28.86	27.59	26.32	24.80	23.53	22.18	20.74
360.0	35.80	33.69	31.91	30.47	29.12	27.51	26.24	24.71	22.94
C/ γ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	21.58	19.98	18.79	17.86	17.61	17.44	16.84	16.34	16.00
45.0	22.18	20.91	19.38	18.20	17.10	16.08	15.07	14.30	13.63
90.0	22.77	21.24	20.06	20.31	23.70	29.03	33.09	34.62	29.79
135.0	24.12	22.51	21.24	19.98	18.87	17.44	16.34	15.40	14.64
180.0	22.51	21.24	19.64	18.37	16.93	16.00	15.24	14.39	13.71
225.0	21.24	19.81	21.24	27.08	31.57	34.96	35.13	29.03	23.02
270.0	20.91	19.64	18.03	16.84	15.91	15.15	14.13	13.46	12.95
315.0	19.47	18.03	17.10	16.50	16.08	15.74	15.40	14.98	13.80
360.0	21.58	19.98	18.79	17.86	17.61	17.44	16.84	16.34	16.00
C/ γ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	15.32	13.54	12.70	11.68	10.83	9.65	9.06	8.72	8.46
45.0	12.95	12.27	11.43	10.66	9.90	9.31	8.55	7.96	7.45
90.0	24.55	18.87	14.30	12.95	11.85	10.24	9.56	9.14	8.63
135.0	13.97	13.54	13.03	12.02	11.09	10.41	9.56	8.97	8.29
180.0	13.37	12.44	11.51	10.92	10.07	9.31	8.72	8.21	7.79
225.0	16.59	13.46	12.61	10.92	9.90	9.40	8.89	8.55	8.55
270.0	12.10	11.34	10.41	9.82	8.97	8.38	7.79	7.19	7.03
315.0	12.53	11.60	10.92	9.90	9.23	8.72	8.46	8.38	8.29
360.0	15.32	13.54	12.70	11.68	10.83	9.65	9.06	8.72	8.46

Intensity data(cd)

C/ $\gamma(^{\circ})$	90.0
0.0	8.46
45.0	7.03
90.0	8.55
135.0	7.87
180.0	7.36
225.0	8.46
270.0	6.86
315.0	8.21
360.0	8.46