

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P973024

Luminaire Tested: 22CGRK-L3C3-UNV-MP4-LOW-5000K

Issue Date: 3/12/2025

Test Information

Test Method: LM-79-2019
Report Number: P973024
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (DLF2412105-2a)
Test Lab: INNOVATION CENTER
Issue Date: 3/12/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CGRK-L3C3-UNV-MP4-LOW-5000K
Description: 2x2 CGRK Backlit Panel Retrofit Kit at, LOW lumen, 5000K CCT settings
Light Source: -
Ballast/Driver: -

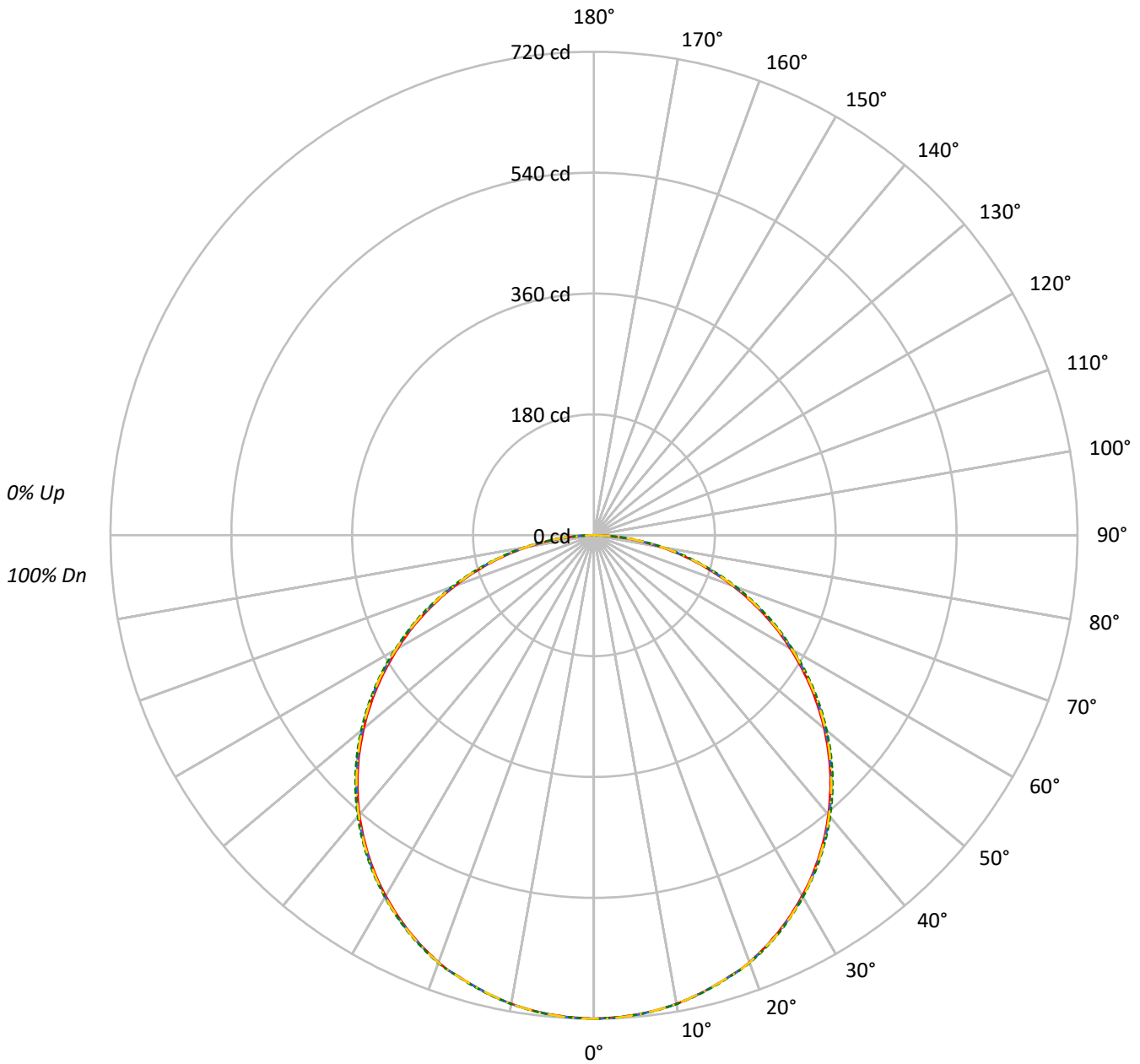
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2175.0 lumens
Efficiency: N/A
Efficacy: 143.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 15.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - · - 135°-315°



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	85	85	85	83
2	98	90	82	77	95	88	81	76	84	79	74	81	76	72	78	74	70	70	70	70	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	64	59	59	59	59	57
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	51	51	51	48
5	75	62	53	46	73	61	52	45	58	51	45	56	50	44	55	49	44	44	44	44	42
6	69	55	46	40	67	55	46	40	53	45	39	51	44	39	49	43	38	38	38	38	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	34	34	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	30	30	30	29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	27	27	27	26
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	25	25	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	2306	2306	2306	2306
5°	2304	2305	2304	2305
10°	2304	2306	2304	2306
15°	2302	2305	2302	2305
20°	2307	2311	2307	2311
25°	2301	2307	2301	2307
30°	2293	2302	2293	2302
35°	2284	2296	2284	2296
40°	2270	2288	2270	2288
45°	2253	2275	2253	2275
50°	2229	2256	2229	2256
55°	2199	2230	2199	2230
60°	2160	2198	2160	2198
65°	2119	2165	2119	2165
70°	2057	2112	2057	2112
75°	1977	2044	1977	2044
80°	1846	1951	1846	1951
85°	1606	1800	1606	1800

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2275 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.2	3.1
10°-20°	196.3	9.0
20°-30°	300.6	13.8
30°-40°	366.5	16.8
40°-50°	385.4	17.7
50°-60°	354.5	16.3
60°-70°	279.5	12.8
70°-80°	171.8	7.9
80°-90°	52.3	2.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	565.0	26.0
0°-40°	931.5	42.8
0°-60°	1671.4	76.8
0°-90°	2175.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2175.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	720	720	720	720	720	
5°	717	717	717	717	717	68
15°	694	695	694	695	694	196
25°	651	653	651	653	651	300
35°	584	587	584	587	584	365
45°	497	502	497	502	497	384
55°	394	399	394	399	394	352
65°	280	286	280	286	280	276
75°	160	165	160	165	160	169
85°	44	49	44	49	44	47
90°	0	0	0	0	0	3
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	720.0	720.0	720.0	720.0	720.0	720.0	720.0	720.0	720.0	720.0	720.0
1°	719.5	720.1	719.7	719.9	719.7	719.8	719.4	719.8	719.7	719.9	719.7
2°	719.1	719.6	719.4	719.7	719.4	719.3	719.2	719.3	719.4	719.7	719.4
3°	718.6	718.9	718.7	719.1	718.9	718.9	718.6	718.9	718.9	719.1	718.7
4°	717.6	718.3	718.1	718.2	718.0	717.9	718.0	717.9	718.0	718.2	718.1
5°	716.8	717.2	717.1	717.1	717.1	717.0	717.0	717.0	717.1	717.1	717.1
6°	715.4	716.0	715.7	715.7	715.7	715.8	716.0	715.8	715.7	715.7	715.7
7°	714.3	714.4	714.3	714.2	714.2	714.4	714.6	714.4	714.2	714.2	714.3
8°	712.5	712.6	712.6	712.6	712.7	712.7	712.8	712.7	712.7	712.6	712.6
9°	710.7	710.6	710.8	710.7	710.6	710.7	710.9	710.7	710.6	710.7	710.8
10°	708.4	708.6	708.4	708.4	708.5	708.8	709.0	708.8	708.5	708.4	708.4
11°	706.2	705.8	705.9	706.1	706.0	706.3	706.3	706.3	706.0	706.1	705.9
12°	703.5	703.2	703.4	703.4	703.5	703.9	704.1	703.9	703.5	703.4	703.4
13°	700.7	700.5	700.5	700.5	700.8	701.0	701.2	701.0	700.8	700.5	700.5
14°	697.6	697.5	697.4	697.5	697.8	697.9	698.2	697.9	697.8	697.5	697.4
15°	694.3	694.1	694.2	694.2	694.6	694.7	695.1	694.7	694.6	694.2	694.2
16°	691.0	690.6	690.7	691.0	691.2	691.3	691.7	691.3	691.2	691.0	690.7
17°	687.5	687.6	687.5	687.9	687.5	688.0	688.1	688.0	687.5	687.9	687.5
18°	684.6	684.5	684.5	684.7	684.7	684.9	684.9	684.9	684.7	684.7	684.5
19°	681.3	680.9	681.3	681.5	681.6	681.7	681.8	681.7	681.6	681.5	681.3
20°	676.8	676.5	676.8	677.2	677.5	677.8	678.0	677.8	677.5	677.2	676.8
21°	672.0	671.8	672.1	672.6	673.0	673.2	673.3	673.2	673.0	672.6	672.1
22°	667.1	666.9	667.3	667.6	668.1	668.4	668.6	668.4	668.1	667.6	667.3
23°	662.1	662.0	662.2	662.7	663.3	663.6	663.5	663.6	663.3	662.7	662.2
24°	656.4	656.6	656.8	657.6	657.9	658.3	658.5	658.3	657.9	657.6	656.8
25°	651.1	651.0	651.4	652.1	652.5	653.0	653.0	653.0	652.5	652.1	651.4
26°	645.2	645.4	645.7	646.4	647.0	647.3	647.3	647.3	647.0	646.4	645.7
27°	639.4	639.4	639.9	640.6	641.0	641.4	641.3	641.4	641.0	640.6	639.9
28°	633.0	633.3	633.9	634.5	635.0	635.3	635.3	635.3	635.0	634.5	633.9
29°	626.5	626.8	627.5	628.1	628.8	629.0	629.0	629.0	628.8	628.1	627.5
30°	620.0	620.4	620.9	621.6	622.2	622.6	622.5	622.6	622.2	621.6	620.9
31°	613.5	613.5	614.0	614.9	615.4	615.8	615.9	615.8	615.4	614.9	614.0
32°	606.5	606.7	607.3	607.9	608.6	609.0	609.0	609.0	608.6	607.9	607.3
33°	599.3	599.4	600.0	600.6	601.4	601.9	602.1	601.9	601.4	600.6	600.0
34°	591.8	592.1	592.6	593.3	594.2	594.6	594.7	594.6	594.2	593.3	592.6
35°	584.2	584.5	585.0	585.8	586.6	587.2	587.4	587.2	586.6	585.8	585.0
36°	576.4	576.8	577.2	577.9	578.9	579.6	579.8	579.6	578.9	577.9	577.2
37°	568.3	568.6	569.3	570.1	571.0	571.6	571.8	571.6	571.0	570.1	569.3
38°	560.3	560.4	561.1	561.8	562.9	563.4	563.9	563.4	562.9	561.8	561.1
39°	551.8	552.1	552.8	553.5	554.7	555.4	555.6	555.4	554.7	553.5	552.8
40°	543.1	543.5	544.3	544.8	546.2	546.8	547.2	546.8	546.2	544.8	544.3
41°	534.3	534.7	535.3	536.2	537.6	538.1	538.4	538.1	537.6	536.2	535.3
42°	525.3	525.8	526.6	527.4	528.7	529.2	529.9	529.2	528.7	527.4	526.6
43°	516.2	516.6	517.4	518.2	519.5	520.2	520.9	520.2	519.5	518.2	517.4
44°	506.8	507.3	508.3	509.0	510.4	511.0	511.5	511.0	510.4	509.0	508.3



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CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	497.4	497.9	498.7	499.6	501.0	501.7	502.3	501.7	501.0	499.6	498.7
46°	487.9	488.2	489.1	489.9	491.4	492.1	492.6	492.1	491.4	489.9	489.1
47°	477.8	478.2	479.2	480.3	481.7	482.3	482.9	482.3	481.7	480.3	479.2
48°	467.7	468.2	469.3	470.4	471.9	472.5	473.1	472.5	471.9	470.4	469.3
49°	457.6	458.0	459.2	460.5	461.7	462.3	463.0	462.3	461.7	460.5	459.2
50°	447.4	447.7	448.9	450.2	451.5	452.3	452.8	452.3	451.5	450.2	448.9
51°	436.9	437.3	438.5	439.8	441.0	442.0	442.3	442.0	441.0	439.8	438.5
52°	426.3	426.8	427.8	429.4	430.6	431.4	431.8	431.4	430.6	429.4	427.8
53°	415.8	416.0	417.2	418.9	419.9	420.9	421.2	420.9	419.9	418.9	417.2
54°	404.7	405.2	406.3	407.9	409.1	410.1	410.3	410.1	409.1	407.9	406.3
55°	393.8	394.2	395.5	397.1	398.2	399.3	399.4	399.3	398.2	397.1	395.5
56°	382.8	383.1	384.2	386.1	387.3	388.2	388.3	388.2	387.3	386.1	384.2
57°	371.5	371.9	373.1	374.8	376.0	377.1	377.4	377.1	376.0	374.8	373.1
58°	360.2	360.6	361.9	363.6	364.7	365.8	366.1	365.8	364.7	363.6	361.9
59°	348.9	349.2	350.3	352.1	353.3	354.4	354.7	354.4	353.3	352.1	350.3
60°	337.3	337.7	338.9	340.6	341.9	343.0	343.2	343.0	341.9	340.6	338.9
61°	326.2	326.5	327.7	329.9	330.3	331.4	331.0	331.4	330.3	329.9	327.7
62°	315.0	315.4	316.4	318.1	319.2	320.5	320.5	320.5	319.2	318.1	316.4
63°	303.5	303.8	305.0	306.5	307.9	309.0	309.4	309.0	307.9	306.5	305.0
64°	291.5	292.0	293.2	294.8	296.2	297.2	297.6	297.2	296.2	294.8	293.2
65°	279.6	280.2	281.3	282.8	284.3	285.3	285.7	285.3	284.3	282.8	281.3
66°	267.7	268.2	269.4	270.8	272.3	273.3	273.8	273.3	272.3	270.8	269.4
67°	255.8	256.3	257.3	258.9	260.4	261.4	261.8	261.4	260.4	258.9	257.3
68°	243.8	244.3	245.3	246.8	248.3	249.3	249.7	249.3	248.3	246.8	245.3
69°	231.8	232.2	233.3	234.8	236.3	237.2	237.7	237.2	236.3	234.8	233.3
70°	219.7	220.2	221.3	222.8	224.2	225.1	225.6	225.1	224.2	222.8	221.3
71°	207.7	208.2	209.2	210.7	212.1	213.1	213.6	213.1	212.1	210.7	209.2
72°	195.8	196.2	197.3	198.7	200.1	200.9	201.4	200.9	200.1	198.7	197.3
73°	183.7	184.1	185.3	186.6	188.0	188.9	189.2	188.9	188.0	186.6	185.3
74°	171.7	172.2	173.3	174.8	176.0	176.9	177.3	176.9	176.0	174.8	173.3
75°	159.8	160.3	161.4	162.8	164.1	164.9	165.2	164.9	164.1	162.8	161.4
76°	148.0	148.3	149.6	150.9	152.2	152.9	153.2	152.9	152.2	150.9	149.6
77°	136.1	136.5	137.8	139.1	140.3	141.1	141.3	141.1	140.3	139.1	137.8
78°	124.1	124.6	125.9	127.4	128.5	129.2	129.3	129.2	128.5	127.4	125.9
79°	112.0	112.7	114.3	115.7	116.7	117.4	117.6	117.4	116.7	115.7	114.3
80°	100.1	100.7	102.4	104.1	105.1	105.8	105.8	105.8	105.1	104.1	102.4
81°	88.4	89.0	90.5	92.5	93.6	94.2	94.2	94.2	93.6	92.5	90.5
82°	76.9	77.4	78.9	80.8	82.2	82.7	82.8	82.7	82.2	80.8	78.9
83°	65.4	65.9	67.2	69.1	70.7	71.3	71.4	71.3	70.7	69.1	67.2
84°	54.4	54.9	56.0	57.7	59.5	60.2	60.2	60.2	59.5	57.7	56.0
85°	43.7	44.0	45.1	46.6	48.3	49.2	49.0	49.2	48.3	46.6	45.1
86°	33.3	33.6	34.6	35.8	37.1	37.9	37.7	37.9	37.1	35.8	34.6
87°	23.7	23.9	24.6	25.3	25.9	26.7	26.6	26.7	25.9	25.3	24.6
88°	15.0	15.1	15.5	16.0	15.9	16.7	16.5	16.7	15.9	16.0	15.5
89°	7.2	7.3	7.4	7.6	7.0	7.3	7.3	7.3	7.0	7.6	7.4



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CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
101°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
103°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
104°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
106°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
108°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
109°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
111°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
113°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
114°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
116°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
118°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
119°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
121°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
124°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
126°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
128°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
129°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
131°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
133°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
134°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P973024
 CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-LOW-5000K

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
136°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
138°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
139°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
141°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
144°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
146°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
148°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
149°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
151°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
153°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
154°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
156°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
158°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
159°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
161°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
163°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
164°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
166°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
168°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
169°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
171°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
173°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
174°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
176°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
178°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
179°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P973024
CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-LOW-5000K

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P973024
 CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-LOW-5000K

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	720.0	720.0	720.0	720.0	720.0	720.0	720.0	720.0	720.0	720.0	720.0
1°	720.1	719.5	720.1	719.7	719.9	719.7	719.8	719.4	719.8	719.7	719.9
2°	719.6	719.1	719.6	719.4	719.7	719.4	719.3	719.2	719.3	719.4	719.7
3°	718.9	718.6	718.9	718.7	719.1	718.9	718.9	718.6	718.9	718.9	719.1
4°	718.3	717.6	718.3	718.1	718.2	718.0	717.9	718.0	717.9	718.0	718.2
5°	717.2	716.8	717.2	717.1	717.1	717.1	717.0	717.0	717.0	717.1	717.1
6°	716.0	715.4	716.0	715.7	715.7	715.7	715.8	716.0	715.8	715.7	715.7
7°	714.4	714.3	714.4	714.3	714.2	714.2	714.4	714.6	714.4	714.2	714.2
8°	712.6	712.5	712.6	712.6	712.6	712.7	712.7	712.8	712.7	712.7	712.6
9°	710.6	710.7	710.6	710.8	710.7	710.6	710.7	710.9	710.7	710.6	710.7
10°	708.6	708.4	708.6	708.4	708.4	708.5	708.8	709.0	708.8	708.5	708.4
11°	705.8	706.2	705.8	705.9	706.1	706.0	706.3	706.3	706.3	706.0	706.1
12°	703.2	703.5	703.2	703.4	703.4	703.5	703.9	704.1	703.9	703.5	703.4
13°	700.5	700.7	700.5	700.5	700.5	700.8	701.0	701.2	701.0	700.8	700.5
14°	697.5	697.6	697.5	697.4	697.5	697.8	697.9	698.2	697.9	697.8	697.5
15°	694.1	694.3	694.1	694.2	694.2	694.6	694.7	695.1	694.7	694.6	694.2
16°	690.6	691.0	690.6	690.7	691.0	691.2	691.3	691.7	691.3	691.2	691.0
17°	687.6	687.5	687.6	687.5	687.9	687.5	688.0	688.1	688.0	687.5	687.9
18°	684.5	684.6	684.5	684.5	684.7	684.7	684.9	684.9	684.9	684.7	684.7
19°	680.9	681.3	680.9	681.3	681.5	681.6	681.7	681.8	681.7	681.6	681.5
20°	676.5	676.8	676.5	676.8	677.2	677.5	677.8	678.0	677.8	677.5	677.2
21°	671.8	672.0	671.8	672.1	672.6	673.0	673.2	673.3	673.2	673.0	672.6
22°	666.9	667.1	666.9	667.3	667.6	668.1	668.4	668.6	668.4	668.1	667.6
23°	662.0	662.1	662.0	662.2	662.7	663.3	663.6	663.5	663.6	663.3	662.7
24°	656.6	656.4	656.6	656.8	657.6	657.9	658.3	658.5	658.3	657.9	657.6
25°	651.0	651.1	651.0	651.4	652.1	652.5	653.0	653.0	653.0	652.5	652.1
26°	645.4	645.2	645.4	645.7	646.4	647.0	647.3	647.3	647.3	647.0	646.4
27°	639.4	639.4	639.4	639.9	640.6	641.0	641.4	641.3	641.4	641.0	640.6
28°	633.3	633.0	633.3	633.9	634.5	635.0	635.3	635.3	635.3	635.0	634.5
29°	626.8	626.5	626.8	627.5	628.1	628.8	629.0	629.0	629.0	628.8	628.1
30°	620.4	620.0	620.4	620.9	621.6	622.2	622.6	622.5	622.6	622.2	621.6
31°	613.5	613.5	613.5	614.0	614.9	615.4	615.8	615.9	615.8	615.4	614.9
32°	606.7	606.5	606.7	607.3	607.9	608.6	609.0	609.0	609.0	608.6	607.9
33°	599.4	599.3	599.4	600.0	600.6	601.4	601.9	602.1	601.9	601.4	600.6
34°	592.1	591.8	592.1	592.6	593.3	594.2	594.6	594.7	594.6	594.2	593.3
35°	584.5	584.2	584.5	585.0	585.8	586.6	587.2	587.4	587.2	586.6	585.8
36°	576.8	576.4	576.8	577.2	577.9	578.9	579.6	579.8	579.6	578.9	577.9
37°	568.6	568.3	568.6	569.3	570.1	571.0	571.6	571.8	571.6	571.0	570.1
38°	560.4	560.3	560.4	561.1	561.8	562.9	563.4	563.9	563.4	562.9	561.8
39°	552.1	551.8	552.1	552.8	553.5	554.7	555.4	555.6	555.4	554.7	553.5
40°	543.5	543.1	543.5	544.3	544.8	546.2	546.8	547.2	546.8	546.2	544.8
41°	534.7	534.3	534.7	535.3	536.2	537.6	538.1	538.4	538.1	537.6	536.2
42°	525.8	525.3	525.8	526.6	527.4	528.7	529.2	529.9	529.2	528.7	527.4
43°	516.6	516.2	516.6	517.4	518.2	519.5	520.2	520.9	520.2	519.5	518.2
44°	507.3	506.8	507.3	508.3	509.0	510.4	511.0	511.5	511.0	510.4	509.0



TEST NUMBER: P973024

CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-LOW-5000K

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	497.9	497.4	497.9	498.7	499.6	501.0	501.7	502.3	501.7	501.0	499.6
46°	488.2	487.9	488.2	489.1	489.9	491.4	492.1	492.6	492.1	491.4	489.9
47°	478.2	477.8	478.2	479.2	480.3	481.7	482.3	482.9	482.3	481.7	480.3
48°	468.2	467.7	468.2	469.3	470.4	471.9	472.5	473.1	472.5	471.9	470.4
49°	458.0	457.6	458.0	459.2	460.5	461.7	462.3	463.0	462.3	461.7	460.5
50°	447.7	447.4	447.7	448.9	450.2	451.5	452.3	452.8	452.3	451.5	450.2
51°	437.3	436.9	437.3	438.5	439.8	441.0	442.0	442.3	442.0	441.0	439.8
52°	426.8	426.3	426.8	427.8	429.4	430.6	431.4	431.8	431.4	430.6	429.4
53°	416.0	415.8	416.0	417.2	418.9	419.9	420.9	421.2	420.9	419.9	418.9
54°	405.2	404.7	405.2	406.3	407.9	409.1	410.1	410.3	410.1	409.1	407.9
55°	394.2	393.8	394.2	395.5	397.1	398.2	399.3	399.4	399.3	398.2	397.1
56°	383.1	382.8	383.1	384.2	386.1	387.3	388.2	388.3	388.2	387.3	386.1
57°	371.9	371.5	371.9	373.1	374.8	376.0	377.1	377.4	377.1	376.0	374.8
58°	360.6	360.2	360.6	361.9	363.6	364.7	365.8	366.1	365.8	364.7	363.6
59°	349.2	348.9	349.2	350.3	352.1	353.3	354.4	354.7	354.4	353.3	352.1
60°	337.7	337.3	337.7	338.9	340.6	341.9	343.0	343.2	343.0	341.9	340.6
61°	326.5	326.2	326.5	327.7	329.9	330.3	331.4	331.0	331.4	330.3	329.9
62°	315.4	315.0	315.4	316.4	318.1	319.2	320.5	320.5	320.5	319.2	318.1
63°	303.8	303.5	303.8	305.0	306.5	307.9	309.0	309.4	309.0	307.9	306.5
64°	292.0	291.5	292.0	293.2	294.8	296.2	297.2	297.6	297.2	296.2	294.8
65°	280.2	279.6	280.2	281.3	282.8	284.3	285.3	285.7	285.3	284.3	282.8
66°	268.2	267.7	268.2	269.4	270.8	272.3	273.3	273.8	273.3	272.3	270.8
67°	256.3	255.8	256.3	257.3	258.9	260.4	261.4	261.8	261.4	260.4	258.9
68°	244.3	243.8	244.3	245.3	246.8	248.3	249.3	249.7	249.3	248.3	246.8
69°	232.2	231.8	232.2	233.3	234.8	236.3	237.2	237.7	237.2	236.3	234.8
70°	220.2	219.7	220.2	221.3	222.8	224.2	225.1	225.6	225.1	224.2	222.8
71°	208.2	207.7	208.2	209.2	210.7	212.1	213.1	213.6	213.1	212.1	210.7
72°	196.2	195.8	196.2	197.3	198.7	200.1	200.9	201.4	200.9	200.1	198.7
73°	184.1	183.7	184.1	185.3	186.6	188.0	188.9	189.2	188.9	188.0	186.6
74°	172.2	171.7	172.2	173.3	174.8	176.0	176.9	177.3	176.9	176.0	174.8
75°	160.3	159.8	160.3	161.4	162.8	164.1	164.9	165.2	164.9	164.1	162.8
76°	148.3	148.0	148.3	149.6	150.9	152.2	152.9	153.2	152.9	152.2	150.9
77°	136.5	136.1	136.5	137.8	139.1	140.3	141.1	141.3	141.1	140.3	139.1
78°	124.6	124.1	124.6	125.9	127.4	128.5	129.2	129.3	129.2	128.5	127.4
79°	112.7	112.0	112.7	114.3	115.7	116.7	117.4	117.6	117.4	116.7	115.7
80°	100.7	100.1	100.7	102.4	104.1	105.1	105.8	105.8	105.8	105.1	104.1
81°	89.0	88.4	89.0	90.5	92.5	93.6	94.2	94.2	94.2	93.6	92.5
82°	77.4	76.9	77.4	78.9	80.8	82.2	82.7	82.8	82.7	82.2	80.8
83°	65.9	65.4	65.9	67.2	69.1	70.7	71.3	71.4	71.3	70.7	69.1
84°	54.9	54.4	54.9	56.0	57.7	59.5	60.2	60.2	60.2	59.5	57.7
85°	44.0	43.7	44.0	45.1	46.6	48.3	49.2	49.0	49.2	48.3	46.6
86°	33.6	33.3	33.6	34.6	35.8	37.1	37.9	37.7	37.9	37.1	35.8
87°	23.9	23.7	23.9	24.6	25.3	25.9	26.7	26.6	26.7	25.9	25.3
88°	15.1	15.0	15.1	15.5	16.0	15.9	16.7	16.5	16.7	15.9	16.0
89°	7.3	7.2	7.3	7.4	7.6	7.0	7.3	7.3	7.3	7.0	7.6



TEST NUMBER: P973024
 CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-LOW-5000K

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
101°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
103°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
104°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
106°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
108°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
109°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
111°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
113°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
114°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
116°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
118°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
119°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
121°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
124°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
126°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
128°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
129°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
131°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
133°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
134°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P973024
 CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-LOW-5000K

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
136°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
138°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
139°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
141°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
144°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
146°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
148°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
149°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
151°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
153°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
154°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
156°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
158°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
159°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
161°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
163°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
164°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
166°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
168°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
169°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
171°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
173°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
174°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
176°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
178°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
179°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P973024

CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-LOW-5000K

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P973024
 CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-LOW-5000K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	720.0	720.0	720.0
1°	719.7	720.1	719.5
2°	719.4	719.6	719.1
3°	718.7	718.9	718.6
4°	718.1	718.3	717.6
5°	717.1	717.2	716.8
6°	715.7	716.0	715.4
7°	714.3	714.4	714.3
8°	712.6	712.6	712.5
9°	710.8	710.6	710.7
10°	708.4	708.6	708.4
11°	705.9	705.8	706.2
12°	703.4	703.2	703.5
13°	700.5	700.5	700.7
14°	697.4	697.5	697.6
15°	694.2	694.1	694.3
16°	690.7	690.6	691.0
17°	687.5	687.6	687.5
18°	684.5	684.5	684.6
19°	681.3	680.9	681.3
20°	676.8	676.5	676.8
21°	672.1	671.8	672.0
22°	667.3	666.9	667.1
23°	662.2	662.0	662.1
24°	656.8	656.6	656.4
25°	651.4	651.0	651.1
26°	645.7	645.4	645.2
27°	639.9	639.4	639.4
28°	633.9	633.3	633.0
29°	627.5	626.8	626.5
30°	620.9	620.4	620.0
31°	614.0	613.5	613.5
32°	607.3	606.7	606.5
33°	600.0	599.4	599.3
34°	592.6	592.1	591.8
35°	585.0	584.5	584.2
36°	577.2	576.8	576.4
37°	569.3	568.6	568.3
38°	561.1	560.4	560.3
39°	552.8	552.1	551.8
40°	544.3	543.5	543.1
41°	535.3	534.7	534.3
42°	526.6	525.8	525.3
43°	517.4	516.6	516.2
44°	508.3	507.3	506.8



TEST NUMBER: P973024

CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-LOW-5000K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	498.7	497.9	497.4
46°	489.1	488.2	487.9
47°	479.2	478.2	477.8
48°	469.3	468.2	467.7
49°	459.2	458.0	457.6
50°	448.9	447.7	447.4
51°	438.5	437.3	436.9
52°	427.8	426.8	426.3
53°	417.2	416.0	415.8
54°	406.3	405.2	404.7
55°	395.5	394.2	393.8
56°	384.2	383.1	382.8
57°	373.1	371.9	371.5
58°	361.9	360.6	360.2
59°	350.3	349.2	348.9
60°	338.9	337.7	337.3
61°	327.7	326.5	326.2
62°	316.4	315.4	315.0
63°	305.0	303.8	303.5
64°	293.2	292.0	291.5
65°	281.3	280.2	279.6
66°	269.4	268.2	267.7
67°	257.3	256.3	255.8
68°	245.3	244.3	243.8
69°	233.3	232.2	231.8
70°	221.3	220.2	219.7
71°	209.2	208.2	207.7
72°	197.3	196.2	195.8
73°	185.3	184.1	183.7
74°	173.3	172.2	171.7
75°	161.4	160.3	159.8
76°	149.6	148.3	148.0
77°	137.8	136.5	136.1
78°	125.9	124.6	124.1
79°	114.3	112.7	112.0
80°	102.4	100.7	100.1
81°	90.5	89.0	88.4
82°	78.9	77.4	76.9
83°	67.2	65.9	65.4
84°	56.0	54.9	54.4
85°	45.1	44.0	43.7
86°	34.6	33.6	33.3
87°	24.6	23.9	23.7
88°	15.5	15.1	15.0
89°	7.4	7.3	7.2



TEST NUMBER: P973024
CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-LOW-5000K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
90°	0.0	0.0	0.0
91°	0.0	0.0	0.0
92°	0.0	0.0	0.0
93°	0.0	0.0	0.0
94°	0.0	0.0	0.0
95°	0.0	0.0	0.0
96°	0.0	0.0	0.0
97°	0.0	0.0	0.0
98°	0.0	0.0	0.0
99°	0.0	0.0	0.0
100°	0.0	0.0	0.0
101°	0.0	0.0	0.0
102°	0.0	0.0	0.0
103°	0.0	0.0	0.0
104°	0.0	0.0	0.0
105°	0.0	0.0	0.0
106°	0.0	0.0	0.0
107°	0.0	0.0	0.0
108°	0.0	0.0	0.0
109°	0.0	0.0	0.0
110°	0.0	0.0	0.0
111°	0.0	0.0	0.0
112°	0.0	0.0	0.0
113°	0.0	0.0	0.0
114°	0.0	0.0	0.0
115°	0.0	0.0	0.0
116°	0.0	0.0	0.0
117°	0.0	0.0	0.0
118°	0.0	0.0	0.0
119°	0.0	0.0	0.0
120°	0.0	0.0	0.0
121°	0.0	0.0	0.0
122°	0.0	0.0	0.0
123°	0.0	0.0	0.0
124°	0.0	0.0	0.0
125°	0.0	0.0	0.0
126°	0.0	0.0	0.0
127°	0.0	0.0	0.0
128°	0.0	0.0	0.0
129°	0.0	0.0	0.0
130°	0.0	0.0	0.0
131°	0.0	0.0	0.0
132°	0.0	0.0	0.0
133°	0.0	0.0	0.0
134°	0.0	0.0	0.0



TEST NUMBER: P973024
CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-LOW-5000K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
135°	0.0	0.0	0.0
136°	0.0	0.0	0.0
137°	0.0	0.0	0.0
138°	0.0	0.0	0.0
139°	0.0	0.0	0.0
140°	0.0	0.0	0.0
141°	0.0	0.0	0.0
142°	0.0	0.0	0.0
143°	0.0	0.0	0.0
144°	0.0	0.0	0.0
145°	0.0	0.0	0.0
146°	0.0	0.0	0.0
147°	0.0	0.0	0.0
148°	0.0	0.0	0.0
149°	0.0	0.0	0.0
150°	0.0	0.0	0.0
151°	0.0	0.0	0.0
152°	0.0	0.0	0.0
153°	0.0	0.0	0.0
154°	0.0	0.0	0.0
155°	0.0	0.0	0.0
156°	0.0	0.0	0.0
157°	0.0	0.0	0.0
158°	0.0	0.0	0.0
159°	0.0	0.0	0.0
160°	0.0	0.0	0.0
161°	0.0	0.0	0.0
162°	0.0	0.0	0.0
163°	0.0	0.0	0.0
164°	0.0	0.0	0.0
165°	0.0	0.0	0.0
166°	0.0	0.0	0.0
167°	0.0	0.0	0.0
168°	0.0	0.0	0.0
169°	0.0	0.0	0.0
170°	0.0	0.0	0.0
171°	0.0	0.0	0.0
172°	0.0	0.0	0.0
173°	0.0	0.0	0.0
174°	0.0	0.0	0.0
175°	0.0	0.0	0.0
176°	0.0	0.0	0.0
177°	0.0	0.0	0.0
178°	0.0	0.0	0.0
179°	0.0	0.0	0.0



TEST NUMBER: P973024
CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-LOW-5000K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0



TEST NUMBER: P973024
 CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-LOW-5000K

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	14.92	16.59	15.28	16.90	17.21	15.01	16.67	15.37	16.99	17.30
	3H	16.86	18.37	17.24	18.70	19.06	16.98	18.49	17.35	18.82	19.18
	4H	17.62	19.05	18.02	19.40	19.77	17.76	19.19	18.15	19.53	19.91
	6H	18.21	19.54	18.62	19.90	20.29	18.38	19.70	18.79	20.07	20.46
	8H	18.41	19.68	18.83	20.07	20.47	18.60	19.86	19.02	20.25	20.65
	12H	18.50	19.72	18.93	20.10	20.53	18.71	19.92	19.13	20.30	20.73
4H	2H	15.61	17.04	16.01	17.38	17.76	15.68	17.11	16.08	17.45	17.83
	3H	17.78	18.98	18.19	19.38	19.78	17.88	19.08	18.29	19.48	19.88
	4H	18.68	19.77	19.11	20.18	20.62	18.80	19.89	19.23	20.30	20.74
	6H	19.41	20.36	19.86	20.80	21.26	19.56	20.52	20.01	20.96	21.41
	8H	19.66	20.55	20.12	21.00	21.46	19.84	20.74	20.30	21.18	21.64
	12H	19.81	20.62	20.29	21.10	21.56	20.02	20.83	20.50	21.30	21.77
8H	4H	19.05	19.95	19.51	20.39	20.85	19.16	20.05	19.62	20.50	20.96
	6H	19.92	20.67	20.41	21.16	21.63	20.06	20.81	20.56	21.30	21.77
	8H	20.26	20.93	20.76	21.43	21.92	20.43	21.10	20.94	21.61	22.09
	12H	20.50	21.09	21.00	21.58	22.14	20.71	21.31	21.21	21.79	22.35
12H	4H	19.11	19.91	19.58	20.39	20.86	19.21	20.01	19.68	20.49	20.96
	6H	20.01	20.68	20.51	21.18	21.67	20.14	20.81	20.65	21.32	21.80
	8H	20.40	21.00	20.91	21.49	22.05	20.57	21.17	21.08	21.66	22.22