

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: P973023

Luminaire Tested: 22CGRK-L3C3-UNV-MP4-LOW-4000K

Issue Date: 3/12/2025

Test Information

Test Method: LM-79-2019
Report Number: P973023
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-4000K
Description: 2x2 CGRK Backlit Panel Retrofit Kit at, LOW lumen, 4000K CCT settings
Light Source: -
Ballast/Driver: -

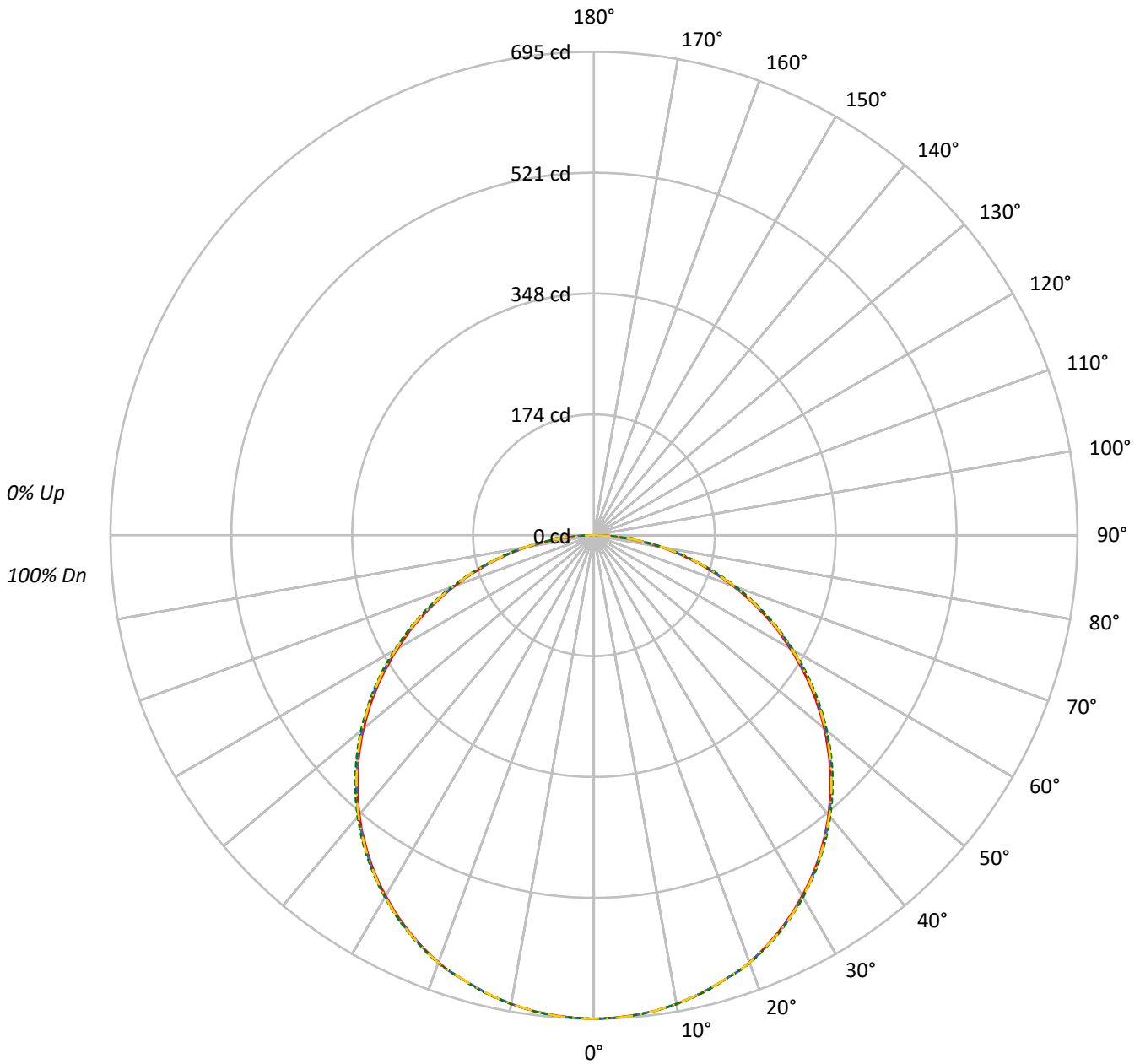
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2100.0 lumens
Efficiency: N/A
Efficacy: 146.9 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): 14.3
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

TEST NUMBER: P973023
CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-LOW-4000K

Luminous Intensity Polar Plot



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



TEST NUMBER: P973023

CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-LOW-4000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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°	2226	2226	2226	2226
5°	2225	2226	2225	2226
10°	2224	2226	2224	2226
15°	2223	2225	2223	2225
20°	2227	2231	2227	2231
25°	2222	2228	2222	2228
30°	2214	2222	2214	2222
35°	2205	2217	2205	2217
40°	2192	2209	2192	2209
45°	2175	2196	2175	2196
50°	2152	2178	2152	2178
55°	2123	2154	2123	2154
60°	2086	2122	2086	2122
65°	2046	2090	2046	2090
70°	1987	2039	1987	2039
75°	1909	1974	1909	1974
80°	1783	1883	1783	1883
85°	1551	1742	1551	1742

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2196 cd/sqm



TEST NUMBER: P973023

CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-LOW-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.8	3.1
10°-20°	189.5	9.0
20°-30°	290.2	13.8
30°-40°	353.8	16.8
40°-50°	372.1	17.7
50°-60°	342.3	16.3
60°-70°	269.8	12.8
70°-80°	165.8	7.9
80°-90°	50.5	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°	545.5	26.0
0°-40°	899.4	42.8
0°-60°	1613.8	76.8
0°-90°	2100.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2100.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	695	695	695	695	695	
5°	692	692	692	692	692	66
15°	670	671	670	671	670	189
25°	629	630	629	630	629	290
35°	564	567	564	567	564	353
45°	480	485	480	485	480	370
55°	380	386	380	386	380	340
65°	270	276	270	276	270	267
75°	154	160	154	160	154	163
85°	42	47	42	47	42	46
90°	0	0	0	0	0	2
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



TEST NUMBER: P973023
 CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-LOW-4000K

CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	695.2	695.2	695.2	695.2	695.2	695.2	695.2	695.2	695.2	695.2	695.2
1°	694.7	695.2	694.9	695.1	694.9	695.0	694.6	695.0	694.9	695.1	694.9
2°	694.3	694.8	694.6	694.9	694.6	694.5	694.4	694.5	694.6	694.9	694.6
3°	693.9	694.1	694.0	694.3	694.1	694.1	693.9	694.1	694.1	694.3	694.0
4°	692.9	693.5	693.3	693.4	693.3	693.1	693.2	693.1	693.3	693.4	693.3
5°	692.0	692.5	692.4	692.4	692.4	692.3	692.3	692.3	692.4	692.4	692.4
6°	690.7	691.3	691.0	691.0	691.0	691.1	691.3	691.1	691.0	691.0	691.0
7°	689.7	689.8	689.6	689.6	689.5	689.7	690.0	689.7	689.5	689.6	689.6
8°	687.9	688.1	688.1	688.0	688.1	688.1	688.2	688.1	688.1	688.0	688.1
9°	686.2	686.1	686.3	686.2	686.1	686.2	686.4	686.2	686.1	686.2	686.3
10°	684.0	684.2	683.9	683.9	684.1	684.4	684.5	684.4	684.1	683.9	683.9
11°	681.8	681.4	681.6	681.7	681.7	681.9	682.0	681.9	681.7	681.7	681.6
12°	679.2	678.9	679.1	679.1	679.2	679.6	679.8	679.6	679.2	679.1	679.1
13°	676.6	676.4	676.3	676.4	676.7	676.8	677.0	676.8	676.7	676.4	676.3
14°	673.6	673.4	673.4	673.5	673.7	673.8	674.2	673.8	673.7	673.5	673.4
15°	670.4	670.1	670.3	670.3	670.7	670.8	671.1	670.8	670.7	670.3	670.3
16°	667.2	666.8	666.9	667.2	667.4	667.5	667.8	667.5	667.4	667.2	666.9
17°	663.8	663.9	663.8	664.1	663.8	664.3	664.3	664.3	663.8	664.1	663.8
18°	661.0	660.9	660.9	661.1	661.1	661.3	661.3	661.3	661.1	661.1	660.9
19°	657.8	657.4	657.8	658.0	658.1	658.2	658.3	658.2	658.1	658.0	657.8
20°	653.4	653.1	653.5	653.9	654.1	654.5	654.7	654.5	654.1	653.9	653.5
21°	648.8	648.6	649.0	649.4	649.8	650.0	650.1	650.0	649.8	649.4	649.0
22°	644.1	643.9	644.3	644.6	645.1	645.3	645.6	645.3	645.1	644.6	644.3
23°	639.3	639.1	639.3	639.8	640.4	640.7	640.6	640.7	640.4	639.8	639.3
24°	633.8	633.9	634.2	635.0	635.3	635.6	635.8	635.6	635.3	635.0	634.2
25°	628.7	628.6	629.0	629.6	630.0	630.5	630.5	630.5	630.0	629.6	629.0
26°	622.9	623.1	623.4	624.1	624.7	625.0	625.0	625.0	624.7	624.1	623.4
27°	617.3	617.3	617.9	618.5	618.9	619.3	619.2	619.3	618.9	618.5	617.9
28°	611.2	611.5	612.0	612.6	613.1	613.4	613.4	613.4	613.1	612.6	612.0
29°	604.9	605.2	605.8	606.4	607.1	607.3	607.3	607.3	607.1	606.4	605.8
30°	598.6	599.0	599.5	600.2	600.8	601.1	601.0	601.1	600.8	600.2	599.5
31°	592.3	592.4	592.9	593.7	594.2	594.6	594.7	594.6	594.2	593.7	592.9
32°	585.6	585.8	586.3	587.0	587.6	588.0	588.0	588.0	587.6	587.0	586.3
33°	578.7	578.7	579.3	579.9	580.6	581.2	581.3	581.2	580.6	579.9	579.3
34°	571.4	571.7	572.2	572.8	573.7	574.1	574.2	574.1	573.7	572.8	572.2
35°	564.1	564.3	564.9	565.6	566.4	567.0	567.2	567.0	566.4	565.6	564.9
36°	556.5	556.9	557.3	558.0	559.0	559.6	559.8	559.6	559.0	558.0	557.3
37°	548.7	549.0	549.6	550.4	551.3	551.9	552.1	551.9	551.3	550.4	549.6
38°	541.0	541.1	541.7	542.4	543.5	544.0	544.5	544.0	543.5	542.4	541.7
39°	532.8	533.1	533.7	534.4	535.5	536.2	536.5	536.2	535.5	534.4	533.7
40°	524.4	524.7	525.5	526.1	527.4	527.9	528.4	527.9	527.4	526.1	525.5
41°	515.9	516.2	516.8	517.7	519.0	519.5	519.9	519.5	519.0	517.7	516.8
42°	507.2	507.7	508.4	509.2	510.5	511.0	511.6	511.0	510.5	509.2	508.4
43°	498.4	498.8	499.5	500.4	501.6	502.2	502.9	502.2	501.6	500.4	499.5
44°	489.3	489.8	490.7	491.4	492.8	493.3	493.8	493.3	492.8	491.4	490.7



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 CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-LOW-4000K

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	480.2	480.7	481.5	482.4	483.8	484.4	484.9	484.4	483.8	482.4	481.5
46°	471.1	471.3	472.2	473.0	474.5	475.2	475.6	475.2	474.5	473.0	472.2
47°	461.3	461.8	462.7	463.8	465.0	465.7	466.2	465.7	465.0	463.8	462.7
48°	451.6	452.1	453.2	454.2	455.6	456.2	456.8	456.2	455.6	454.2	453.2
49°	441.9	442.2	443.4	444.6	445.8	446.4	447.0	446.4	445.8	444.6	443.4
50°	432.0	432.3	433.4	434.7	435.9	436.7	437.2	436.7	435.9	434.7	433.4
51°	421.8	422.2	423.3	424.6	425.8	426.8	427.1	426.8	425.8	424.6	423.3
52°	411.6	412.0	413.1	414.6	415.8	416.5	416.9	416.5	415.8	414.6	413.1
53°	401.5	401.6	402.8	404.4	405.4	406.3	406.7	406.3	405.4	404.4	402.8
54°	390.8	391.3	392.3	393.8	395.0	396.0	396.2	396.0	395.0	393.8	392.3
55°	380.2	380.6	381.8	383.4	384.5	385.5	385.7	385.5	384.5	383.4	381.8
56°	369.6	369.9	371.0	372.7	373.9	374.8	375.0	374.8	373.9	372.7	371.0
57°	358.7	359.1	360.3	361.9	363.0	364.1	364.4	364.1	363.0	361.9	360.3
58°	347.8	348.2	349.5	351.1	352.1	353.2	353.5	353.2	352.1	351.1	349.5
59°	336.9	337.2	338.2	340.0	341.1	342.1	342.5	342.1	341.1	340.0	338.2
60°	325.7	326.1	327.2	328.9	330.1	331.1	331.3	331.1	330.1	328.9	327.2
61°	315.0	315.3	316.4	318.5	318.9	319.9	319.6	319.9	318.9	318.5	316.4
62°	304.1	304.5	305.5	307.1	308.2	309.4	309.4	309.4	308.2	307.1	305.5
63°	293.0	293.3	294.5	296.0	297.3	298.4	298.7	298.4	297.3	296.0	294.5
64°	281.4	282.0	283.1	284.6	286.0	287.0	287.4	287.0	286.0	284.6	283.1
65°	270.0	270.5	271.6	273.1	274.5	275.5	275.8	275.5	274.5	273.1	271.6
66°	258.5	259.0	260.1	261.5	262.9	263.9	264.3	263.9	262.9	261.5	260.1
67°	247.0	247.4	248.5	249.9	251.4	252.4	252.8	252.4	251.4	249.9	248.5
68°	235.4	235.8	236.9	238.3	239.8	240.7	241.1	240.7	239.8	238.3	236.9
69°	223.8	224.2	225.3	226.7	228.1	229.0	229.5	229.0	228.1	226.7	225.3
70°	212.2	212.6	213.6	215.1	216.4	217.4	217.8	217.4	216.4	215.1	213.6
71°	200.6	201.0	202.0	203.4	204.8	205.8	206.2	205.8	204.8	203.4	202.0
72°	189.0	189.4	190.5	191.8	193.2	194.0	194.5	194.0	193.2	191.8	190.5
73°	177.4	177.8	178.9	180.2	181.6	182.4	182.7	182.4	181.6	180.2	178.9
74°	165.8	166.2	167.4	168.7	170.0	170.8	171.1	170.8	170.0	168.7	167.4
75°	154.3	154.8	155.9	157.2	158.4	159.2	159.5	159.2	158.4	157.2	155.9
76°	142.8	143.2	144.5	145.7	146.9	147.7	147.9	147.7	146.9	145.7	144.5
77°	131.4	131.8	133.0	134.3	135.5	136.2	136.4	136.2	135.5	134.3	133.0
78°	119.8	120.3	121.6	123.0	124.1	124.8	124.8	124.8	124.1	123.0	121.6
79°	108.1	108.8	110.3	111.7	112.7	113.4	113.5	113.4	112.7	111.7	110.3
80°	96.7	97.2	98.9	100.5	101.5	102.1	102.1	102.1	101.5	100.5	98.9
81°	85.4	85.9	87.4	89.3	90.4	90.9	90.9	90.9	90.4	89.3	87.4
82°	74.3	74.7	76.2	78.0	79.3	79.9	80.0	79.9	79.3	78.0	76.2
83°	63.2	63.6	64.9	66.7	68.3	68.9	68.9	68.9	68.3	66.7	64.9
84°	52.6	53.0	54.0	55.7	57.4	58.1	58.2	58.1	57.4	55.7	54.0
85°	42.2	42.5	43.5	45.0	46.6	47.5	47.4	47.5	46.6	45.0	43.5
86°	32.2	32.5	33.4	34.6	35.8	36.6	36.4	36.6	35.8	34.6	33.4
87°	22.9	23.1	23.8	24.4	25.0	25.8	25.7	25.8	25.0	24.4	23.8
88°	14.5	14.6	14.9	15.4	15.4	16.1	16.0	16.1	15.4	15.4	14.9
89°	6.9	7.0	7.1	7.4	6.7	7.0	7.0	7.0	6.7	7.4	7.1



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 CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-LOW-4000K

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: P973023
 CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-LOW-4000K

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: P973023

CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-LOW-4000K

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: P973023

CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-LOW-4000K

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	695.2	695.2	695.2	695.2	695.2	695.2	695.2	695.2	695.2	695.2	695.2
1°	695.2	694.7	695.2	694.9	695.1	694.9	695.0	694.6	695.0	694.9	695.1
2°	694.8	694.3	694.8	694.6	694.9	694.6	694.5	694.4	694.5	694.6	694.9
3°	694.1	693.9	694.1	694.0	694.3	694.1	694.1	693.9	694.1	694.1	694.3
4°	693.5	692.9	693.5	693.3	693.4	693.3	693.1	693.2	693.1	693.3	693.4
5°	692.5	692.0	692.5	692.4	692.4	692.4	692.3	692.3	692.3	692.4	692.4
6°	691.3	690.7	691.3	691.0	691.0	691.0	691.1	691.3	691.1	691.0	691.0
7°	689.8	689.7	689.8	689.6	689.6	689.5	689.7	690.0	689.7	689.5	689.6
8°	688.1	687.9	688.1	688.1	688.0	688.1	688.1	688.2	688.1	688.1	688.0
9°	686.1	686.2	686.1	686.3	686.2	686.1	686.2	686.4	686.2	686.1	686.2
10°	684.2	684.0	684.2	683.9	683.9	684.1	684.4	684.5	684.4	684.1	683.9
11°	681.4	681.8	681.4	681.6	681.7	681.7	681.9	682.0	681.9	681.7	681.7
12°	678.9	679.2	678.9	679.1	679.1	679.2	679.6	679.8	679.6	679.2	679.1
13°	676.4	676.6	676.4	676.3	676.4	676.7	676.8	677.0	676.8	676.7	676.4
14°	673.4	673.6	673.4	673.4	673.5	673.7	673.8	674.2	673.8	673.7	673.5
15°	670.1	670.4	670.1	670.3	670.3	670.7	670.8	671.1	670.8	670.7	670.3
16°	666.8	667.2	666.8	666.9	667.2	667.4	667.5	667.8	667.5	667.4	667.2
17°	663.9	663.8	663.9	663.8	664.1	663.8	664.3	664.3	664.3	663.8	664.1
18°	660.9	661.0	660.9	660.9	661.1	661.1	661.3	661.3	661.3	661.1	661.1
19°	657.4	657.8	657.4	657.8	658.0	658.1	658.2	658.3	658.2	658.1	658.0
20°	653.1	653.4	653.1	653.5	653.9	654.1	654.5	654.7	654.5	654.1	653.9
21°	648.6	648.8	648.6	649.0	649.4	649.8	650.0	650.1	650.0	649.8	649.4
22°	643.9	644.1	643.9	644.3	644.6	645.1	645.3	645.6	645.3	645.1	644.6
23°	639.1	639.3	639.1	639.3	639.8	640.4	640.7	640.6	640.7	640.4	639.8
24°	633.9	633.8	633.9	634.2	635.0	635.3	635.6	635.8	635.6	635.3	635.0
25°	628.6	628.7	628.6	629.0	629.6	630.0	630.5	630.5	630.5	630.0	629.6
26°	623.1	622.9	623.1	623.4	624.1	624.7	625.0	625.0	625.0	624.7	624.1
27°	617.3	617.3	617.3	617.9	618.5	618.9	619.3	619.2	619.3	618.9	618.5
28°	611.5	611.2	611.5	612.0	612.6	613.1	613.4	613.4	613.4	613.1	612.6
29°	605.2	604.9	605.2	605.8	606.4	607.1	607.3	607.3	607.3	607.1	606.4
30°	599.0	598.6	599.0	599.5	600.2	600.8	601.1	601.0	601.1	600.8	600.2
31°	592.4	592.3	592.4	592.9	593.7	594.2	594.6	594.7	594.6	594.2	593.7
32°	585.8	585.6	585.8	586.3	587.0	587.6	588.0	588.0	588.0	587.6	587.0
33°	578.7	578.7	578.7	579.3	579.9	580.6	581.2	581.3	581.2	580.6	579.9
34°	571.7	571.4	571.7	572.2	572.8	573.7	574.1	574.2	574.1	573.7	572.8
35°	564.3	564.1	564.3	564.9	565.6	566.4	567.0	567.2	567.0	566.4	565.6
36°	556.9	556.5	556.9	557.3	558.0	559.0	559.6	559.8	559.6	559.0	558.0
37°	549.0	548.7	549.0	549.6	550.4	551.3	551.9	552.1	551.9	551.3	550.4
38°	541.1	541.0	541.1	541.7	542.4	543.5	544.0	544.5	544.0	543.5	542.4
39°	533.1	532.8	533.1	533.7	534.4	535.5	536.2	536.5	536.2	535.5	534.4
40°	524.7	524.4	524.7	525.5	526.1	527.4	527.9	528.4	527.9	527.4	526.1
41°	516.2	515.9	516.2	516.8	517.7	519.0	519.5	519.9	519.5	519.0	517.7
42°	507.7	507.2	507.7	508.4	509.2	510.5	511.0	511.6	511.0	510.5	509.2
43°	498.8	498.4	498.8	499.5	500.4	501.6	502.2	502.9	502.2	501.6	500.4
44°	489.8	489.3	489.8	490.7	491.4	492.8	493.3	493.8	493.3	492.8	491.4



TEST NUMBER: P973023

CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-LOW-4000K

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	480.7	480.2	480.7	481.5	482.4	483.8	484.4	484.9	484.4	483.8	482.4
46°	471.3	471.1	471.3	472.2	473.0	474.5	475.2	475.6	475.2	474.5	473.0
47°	461.8	461.3	461.8	462.7	463.8	465.0	465.7	466.2	465.7	465.0	463.8
48°	452.1	451.6	452.1	453.2	454.2	455.6	456.2	456.8	456.2	455.6	454.2
49°	442.2	441.9	442.2	443.4	444.6	445.8	446.4	447.0	446.4	445.8	444.6
50°	432.3	432.0	432.3	433.4	434.7	435.9	436.7	437.2	436.7	435.9	434.7
51°	422.2	421.8	422.2	423.3	424.6	425.8	426.8	427.1	426.8	425.8	424.6
52°	412.0	411.6	412.0	413.1	414.6	415.8	416.5	416.9	416.5	415.8	414.6
53°	401.6	401.5	401.6	402.8	404.4	405.4	406.3	406.7	406.3	405.4	404.4
54°	391.3	390.8	391.3	392.3	393.8	395.0	396.0	396.2	396.0	395.0	393.8
55°	380.6	380.2	380.6	381.8	383.4	384.5	385.5	385.7	385.5	384.5	383.4
56°	369.9	369.6	369.9	371.0	372.7	373.9	374.8	375.0	374.8	373.9	372.7
57°	359.1	358.7	359.1	360.3	361.9	363.0	364.1	364.4	364.1	363.0	361.9
58°	348.2	347.8	348.2	349.5	351.1	352.1	353.2	353.5	353.2	352.1	351.1
59°	337.2	336.9	337.2	338.2	340.0	341.1	342.1	342.5	342.1	341.1	340.0
60°	326.1	325.7	326.1	327.2	328.9	330.1	331.1	331.3	331.1	330.1	328.9
61°	315.3	315.0	315.3	316.4	318.5	318.9	319.9	319.6	319.9	318.9	318.5
62°	304.5	304.1	304.5	305.5	307.1	308.2	309.4	309.4	309.4	308.2	307.1
63°	293.3	293.0	293.3	294.5	296.0	297.3	298.4	298.7	298.4	297.3	296.0
64°	282.0	281.4	282.0	283.1	284.6	286.0	287.0	287.4	287.0	286.0	284.6
65°	270.5	270.0	270.5	271.6	273.1	274.5	275.5	275.8	275.5	274.5	273.1
66°	259.0	258.5	259.0	260.1	261.5	262.9	263.9	264.3	263.9	262.9	261.5
67°	247.4	247.0	247.4	248.5	249.9	251.4	252.4	252.8	252.4	251.4	249.9
68°	235.8	235.4	235.8	236.9	238.3	239.8	240.7	241.1	240.7	239.8	238.3
69°	224.2	223.8	224.2	225.3	226.7	228.1	229.0	229.5	229.0	228.1	226.7
70°	212.6	212.2	212.6	213.6	215.1	216.4	217.4	217.8	217.4	216.4	215.1
71°	201.0	200.6	201.0	202.0	203.4	204.8	205.8	206.2	205.8	204.8	203.4
72°	189.4	189.0	189.4	190.5	191.8	193.2	194.0	194.5	194.0	193.2	191.8
73°	177.8	177.4	177.8	178.9	180.2	181.6	182.4	182.7	182.4	181.6	180.2
74°	166.2	165.8	166.2	167.4	168.7	170.0	170.8	171.1	170.8	170.0	168.7
75°	154.8	154.3	154.8	155.9	157.2	158.4	159.2	159.5	159.2	158.4	157.2
76°	143.2	142.8	143.2	144.5	145.7	146.9	147.7	147.9	147.7	146.9	145.7
77°	131.8	131.4	131.8	133.0	134.3	135.5	136.2	136.4	136.2	135.5	134.3
78°	120.3	119.8	120.3	121.6	123.0	124.1	124.8	124.8	124.8	124.1	123.0
79°	108.8	108.1	108.8	110.3	111.7	112.7	113.4	113.5	113.4	112.7	111.7
80°	97.2	96.7	97.2	98.9	100.5	101.5	102.1	102.1	102.1	101.5	100.5
81°	85.9	85.4	85.9	87.4	89.3	90.4	90.9	90.9	90.9	90.4	89.3
82°	74.7	74.3	74.7	76.2	78.0	79.3	79.9	80.0	79.9	79.3	78.0
83°	63.6	63.2	63.6	64.9	66.7	68.3	68.9	68.9	68.9	68.3	66.7
84°	53.0	52.6	53.0	54.0	55.7	57.4	58.1	58.2	58.1	57.4	55.7
85°	42.5	42.2	42.5	43.5	45.0	46.6	47.5	47.4	47.5	46.6	45.0
86°	32.5	32.2	32.5	33.4	34.6	35.8	36.6	36.4	36.6	35.8	34.6
87°	23.1	22.9	23.1	23.8	24.4	25.0	25.8	25.7	25.8	25.0	24.4
88°	14.6	14.5	14.6	14.9	15.4	15.4	16.1	16.0	16.1	15.4	15.4
89°	7.0	6.9	7.0	7.1	7.4	6.7	7.0	7.0	7.0	6.7	7.4



TEST NUMBER: P973023
 CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-LOW-4000K

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: P973023
 CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-LOW-4000K

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: P973023
CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-LOW-4000K

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: P973023

CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-LOW-4000K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	695.2	695.2	695.2
1°	694.9	695.2	694.7
2°	694.6	694.8	694.3
3°	694.0	694.1	693.9
4°	693.3	693.5	692.9
5°	692.4	692.5	692.0
6°	691.0	691.3	690.7
7°	689.6	689.8	689.7
8°	688.1	688.1	687.9
9°	686.3	686.1	686.2
10°	683.9	684.2	684.0
11°	681.6	681.4	681.8
12°	679.1	678.9	679.2
13°	676.3	676.4	676.6
14°	673.4	673.4	673.6
15°	670.3	670.1	670.4
16°	666.9	666.8	667.2
17°	663.8	663.9	663.8
18°	660.9	660.9	661.0
19°	657.8	657.4	657.8
20°	653.5	653.1	653.4
21°	649.0	648.6	648.8
22°	644.3	643.9	644.1
23°	639.3	639.1	639.3
24°	634.2	633.9	633.8
25°	629.0	628.6	628.7
26°	623.4	623.1	622.9
27°	617.9	617.3	617.3
28°	612.0	611.5	611.2
29°	605.8	605.2	604.9
30°	599.5	599.0	598.6
31°	592.9	592.4	592.3
32°	586.3	585.8	585.6
33°	579.3	578.7	578.7
34°	572.2	571.7	571.4
35°	564.9	564.3	564.1
36°	557.3	556.9	556.5
37°	549.6	549.0	548.7
38°	541.7	541.1	541.0
39°	533.7	533.1	532.8
40°	525.5	524.7	524.4
41°	516.8	516.2	515.9
42°	508.4	507.7	507.2
43°	499.5	498.8	498.4
44°	490.7	489.8	489.3



TEST NUMBER: P973023

CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-LOW-4000K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	481.5	480.7	480.2
46°	472.2	471.3	471.1
47°	462.7	461.8	461.3
48°	453.2	452.1	451.6
49°	443.4	442.2	441.9
50°	433.4	432.3	432.0
51°	423.3	422.2	421.8
52°	413.1	412.0	411.6
53°	402.8	401.6	401.5
54°	392.3	391.3	390.8
55°	381.8	380.6	380.2
56°	371.0	369.9	369.6
57°	360.3	359.1	358.7
58°	349.5	348.2	347.8
59°	338.2	337.2	336.9
60°	327.2	326.1	325.7
61°	316.4	315.3	315.0
62°	305.5	304.5	304.1
63°	294.5	293.3	293.0
64°	283.1	282.0	281.4
65°	271.6	270.5	270.0
66°	260.1	259.0	258.5
67°	248.5	247.4	247.0
68°	236.9	235.8	235.4
69°	225.3	224.2	223.8
70°	213.6	212.6	212.2
71°	202.0	201.0	200.6
72°	190.5	189.4	189.0
73°	178.9	177.8	177.4
74°	167.4	166.2	165.8
75°	155.9	154.8	154.3
76°	144.5	143.2	142.8
77°	133.0	131.8	131.4
78°	121.6	120.3	119.8
79°	110.3	108.8	108.1
80°	98.9	97.2	96.7
81°	87.4	85.9	85.4
82°	76.2	74.7	74.3
83°	64.9	63.6	63.2
84°	54.0	53.0	52.6
85°	43.5	42.5	42.2
86°	33.4	32.5	32.2
87°	23.8	23.1	22.9
88°	14.9	14.6	14.5
89°	7.1	7.0	6.9



TEST NUMBER: P973023
CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-LOW-4000K

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: P973023
CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-LOW-4000K

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: P973023
CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-LOW-4000K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0



TEST NUMBER: P973023
 CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-LOW-4000K

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	14.80	16.47	15.16	16.78	17.09	14.88	16.55	15.25	16.87	17.18
	3H	16.74	18.25	17.11	18.58	18.94	16.85	18.37	17.23	18.69	19.05
	4H	17.50	18.93	17.90	19.28	19.65	17.64	19.06	18.03	19.41	19.79
	6H	18.09	19.42	18.50	19.78	20.17	18.25	19.58	18.67	19.94	20.33
	8H	18.29	19.56	18.71	19.95	20.34	18.47	19.74	18.90	20.13	20.53
	12H	18.38	19.60	18.81	19.98	20.41	18.58	19.80	19.01	20.18	20.61
4H	2H	15.49	16.92	15.89	17.26	17.64	15.56	16.98	15.95	17.33	17.71
	3H	17.66	18.86	18.06	19.26	19.65	17.75	18.96	18.16	19.35	19.75
	4H	18.56	19.65	18.99	20.06	20.49	18.68	19.77	19.11	20.18	20.61
	6H	19.28	20.24	19.74	20.68	21.13	19.44	20.40	19.89	20.84	21.29
	8H	19.54	20.43	19.99	20.87	21.34	19.72	20.61	20.18	21.05	21.52
	12H	19.69	20.50	20.17	20.97	21.44	19.90	20.71	20.38	21.18	21.65
8H	4H	18.93	19.83	19.39	20.27	20.73	19.04	19.93	19.49	20.37	20.84
	6H	19.80	20.55	20.29	21.03	21.51	19.94	20.69	20.43	21.18	21.65
	8H	20.13	20.81	20.64	21.31	21.80	20.31	20.98	20.81	21.48	21.97
	12H	20.38	20.97	20.88	21.46	22.02	20.59	21.18	21.09	21.67	22.23
12H	4H	18.98	19.79	19.46	20.27	20.73	19.08	19.89	19.56	20.37	20.83
	6H	19.88	20.56	20.39	21.06	21.55	20.02	20.69	20.52	21.20	21.68
	8H	20.28	20.88	20.79	21.37	21.93	20.45	21.05	20.96	21.54	22.09