

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: P973013

Luminaire Tested: 14CGRK-L3C3-UNV-MP4-LOW-3500K

Issue Date: 3/12/2025

Test Information

Test Method: LM-79-2019
Report Number: P973013
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (DLF2412105-1a)
Test Lab: INNOVATION CENTER
Issue Date: 3/12/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CGRK-L3C3-UNV-MP4-LOW-3500K
Description: 1x4 CGRK Backlit Panel Retrofit Kit at, LOW lumen, 3500K CCT settings
Light Source: -
Ballast/Driver: -

Summary

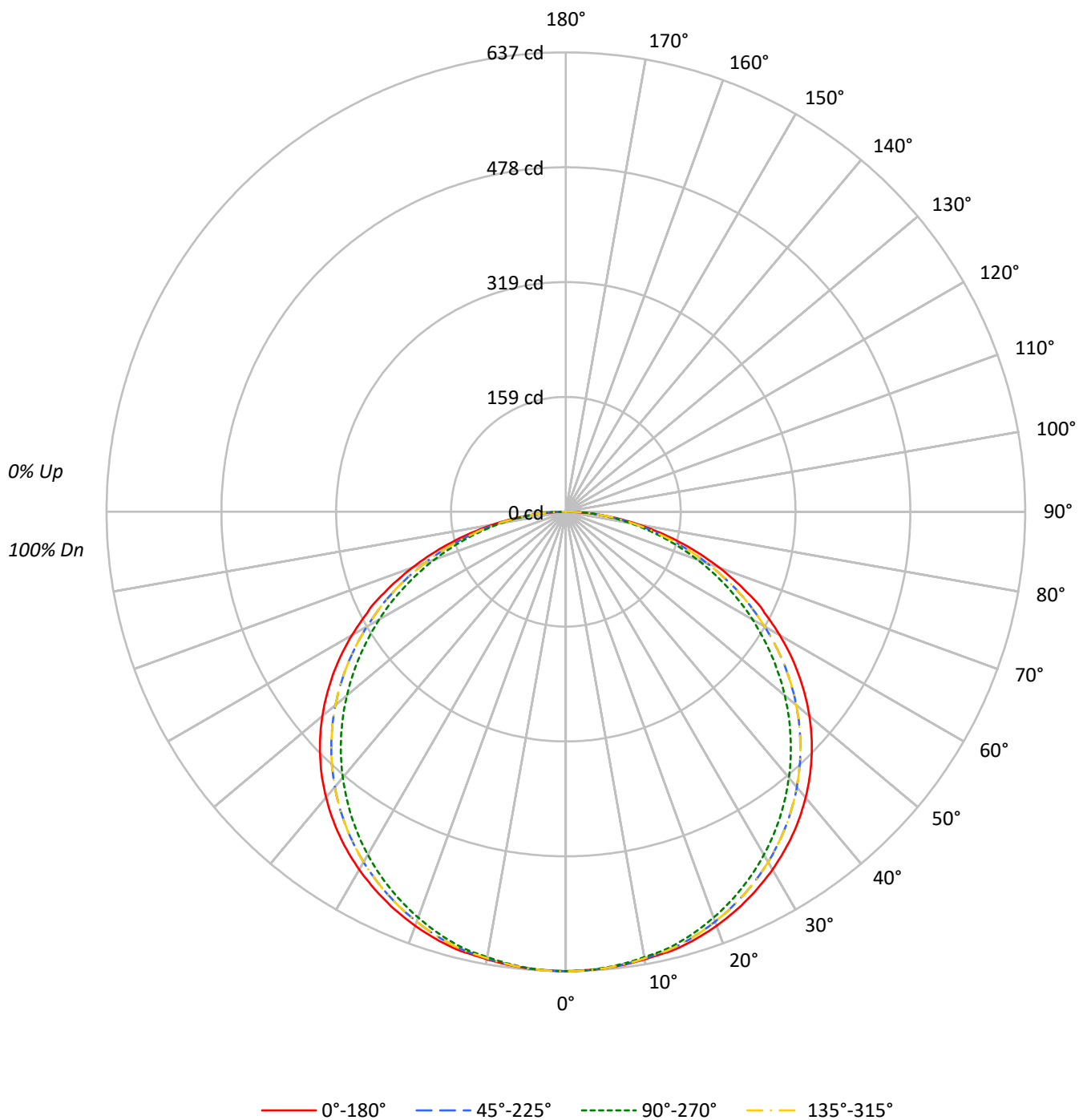
Lumens per Lamp: N/A
Luminaire Lumens: 2000.0 lumens
Efficiency: N/A
Efficacy: 139.9 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.28 / 1.43
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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: P973013

CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-LOW-3500K

Luminous Intensity Polar Plot



TEST NUMBER: P973013

CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-LOW-3500K

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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	108	103	99	94	105	101	97	93	96	93	90		93	90	87		89	87	85	82
2	98	89	82	76	95	87	81	75	84	78	73		80	76	72		77	74	70	68
3	89	78	69	63	86	76	68	62	73	67	61		71	65	60		68	63	59	57
4	81	69	60	53	79	67	59	52	65	57	52		63	56	51		60	55	50	48
5	75	61	52	45	72	60	51	45	58	50	44		56	49	44		54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39		51	44	38		49	43	38	36
7	64	50	41	34	62	49	40	34	47	40	34		46	39	34		45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30		42	35	30		41	35	30	28
9	55	42	33	27	54	41	33	27	40	32	27		39	32	27		38	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25		36	29	25		35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	2147	2147	2147	2147
5°	2149	2146	2149	2146
10°	2157	2145	2157	2145
15°	2175	2151	2175	2151
20°	2191	2148	2191	2148
25°	2208	2143	2208	2143
30°	2230	2137	2230	2137
35°	2253	2129	2253	2129
40°	2276	2117	2276	2117
45°	2296	2100	2296	2100
50°	2312	2077	2312	2077
55°	2317	2048	2317	2048
60°	2310	2018	2310	2018
65°	2295	1970	2295	1970
70°	2232	1910	2232	1910
75°	2136	1838	2136	1838
80°	2001	1758	2001	1758
85°	1767	1775	1767	1775

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 75°

Vertical Angle: 89°

Luminance: 3417 cd/sqm

TEST NUMBER: P973013

CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-LOW-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.4	3.0
10°-20°	175.1	8.8
20°-30°	269.9	13.5
30°-40°	333.1	16.7
40°-50°	355.2	17.8
50°-60°	331.1	16.6
60°-70°	262.7	13.1
70°-80°	160.7	8.0
80°-90°	51.8	2.6
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°	505.4	25.3
0°-40°	838.5	41.9
0°-60°	1524.8	76.2
0°-90°	2000.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2000.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	637	637	637	637	637	
5°	635	634	635	634	635	60
15°	624	617	624	617	624	176
25°	594	576	594	576	594	274
35°	548	518	548	518	548	343
45°	482	441	482	441	482	372
55°	394	349	394	349	394	352
65°	288	247	288	247	288	283
75°	164	141	164	141	164	173
85°	46	46	46	46	46	49
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	

TEST NUMBER: P973013

CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-LOW-3500K

CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	637.1	637.1	637.1	637.1	637.1	637.1	637.1	637.1	637.1	637.1	637.1
1°	636.8	637.1	637.0	637.1	636.8	637.0	636.8	637.0	636.8	637.1	637.0
2°	636.5	636.9	636.8	636.8	636.6	636.6	636.5	636.6	636.6	636.8	636.8
3°	636.2	636.6	636.4	636.4	636.1	636.3	636.1	636.3	636.1	636.4	636.4
4°	635.8	636.0	635.9	635.7	635.5	635.6	635.4	635.6	635.5	635.7	635.9
5°	635.2	635.3	635.2	635.1	634.7	634.6	634.5	634.6	634.7	635.1	635.2
6°	634.4	634.6	634.3	634.2	633.7	633.6	633.5	633.6	633.7	634.2	634.3
7°	633.6	633.7	633.4	633.0	632.5	632.3	632.0	632.3	632.5	633.0	633.4
8°	632.7	632.5	632.2	631.7	631.2	630.9	630.6	630.9	631.2	631.7	632.2
9°	631.3	631.3	630.9	630.5	629.7	629.2	628.9	629.2	629.7	630.5	630.9
10°	630.3	630.0	629.4	628.7	628.1	627.4	627.0	627.4	628.1	628.7	629.4
11°	628.9	628.6	627.8	627.3	626.6	625.8	625.4	625.8	626.6	627.3	627.8
12°	627.7	627.5	626.8	625.8	625.0	624.1	624.0	624.1	625.0	625.8	626.8
13°	626.7	626.6	625.7	624.5	623.3	622.3	622.2	622.3	623.3	624.5	625.7
14°	625.6	625.3	624.0	622.6	621.3	620.1	619.4	620.1	621.3	622.6	624.0
15°	623.6	623.1	621.7	620.1	618.5	617.3	616.6	617.3	618.5	620.1	621.7
16°	621.4	620.7	619.4	617.5	615.6	614.2	613.4	614.2	615.6	617.5	619.4
17°	619.0	618.3	616.6	614.6	612.6	610.9	610.2	610.9	612.6	614.6	616.6
18°	616.5	615.6	613.9	611.5	609.3	607.5	606.6	607.5	609.3	611.5	613.9
19°	613.8	612.9	610.9	608.3	605.8	603.8	602.8	603.8	605.8	608.3	610.9
20°	610.9	610.0	607.8	604.9	602.1	599.9	598.9	599.9	602.1	604.9	607.8
21°	607.9	606.9	604.4	601.3	598.4	596.0	594.9	596.0	598.4	601.3	604.4
22°	604.8	603.6	601.0	597.7	594.2	591.7	590.6	591.7	594.2	597.7	601.0
23°	601.4	600.3	597.4	593.6	590.0	587.3	586.0	587.3	590.0	593.6	597.4
24°	597.9	596.6	593.5	589.4	585.5	582.6	581.4	582.6	585.5	589.4	593.5
25°	594.0	592.8	589.5	585.2	581.0	577.8	576.4	577.8	581.0	585.2	589.5
26°	590.2	588.8	585.4	580.6	576.2	572.7	571.4	572.7	576.2	580.6	585.4
27°	586.2	584.7	581.2	576.0	571.2	567.5	566.0	567.5	571.2	576.0	581.2
28°	581.9	580.6	576.6	571.1	566.0	562.1	560.8	562.1	566.0	571.1	576.6
29°	577.6	576.0	571.9	566.1	560.6	556.6	555.1	556.6	560.6	566.1	571.9
30°	573.1	571.4	567.0	560.9	555.1	550.8	549.2	550.8	555.1	560.9	567.0
31°	568.3	566.6	562.0	555.5	549.4	544.9	543.3	544.9	549.4	555.5	562.0
32°	563.5	561.6	556.7	549.8	543.4	538.8	537.1	538.8	543.4	549.8	556.7
33°	558.3	556.4	551.2	544.0	537.2	532.4	530.6	532.4	537.2	544.0	551.2
34°	553.1	551.0	545.5	538.2	531.1	525.8	524.1	525.8	531.1	538.2	545.5
35°	547.6	545.4	539.8	532.0	524.6	519.4	517.5	519.4	524.6	532.0	539.8
36°	542.0	539.7	533.7	525.6	517.9	512.4	510.6	512.4	517.9	525.6	533.7
37°	536.1	533.7	527.5	519.1	511.2	505.5	503.5	505.5	511.2	519.1	527.5
38°	530.1	527.6	521.0	512.4	504.1	498.4	496.3	498.4	504.1	512.4	521.0
39°	523.8	521.2	514.4	505.5	497.0	491.0	488.7	491.0	497.0	505.5	514.4
40°	517.4	514.7	507.5	498.3	489.6	483.4	481.2	483.4	489.6	498.3	507.5
41°	510.6	507.9	500.6	491.1	482.1	475.7	473.5	475.7	482.1	491.1	500.6
42°	503.8	500.9	493.3	483.6	474.4	467.8	465.5	467.8	474.4	483.6	493.3
43°	496.7	493.8	486.0	475.9	466.5	459.8	457.5	459.8	466.5	475.9	486.0
44°	489.5	486.4	478.4	468.1	458.4	451.6	449.1	451.6	458.4	468.1	478.4

TEST NUMBER: P973013

CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-LOW-3500K

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	481.8	478.8	470.5	460.0	450.2	443.2	440.7	443.2	450.2	460.0	470.5
46°	474.1	470.9	462.4	451.7	441.8	434.7	432.1	434.7	441.8	451.7	462.4
47°	466.1	462.9	454.2	443.4	433.2	425.9	423.4	425.9	433.2	443.4	454.2
48°	458.0	454.7	445.9	434.9	424.5	417.1	414.6	417.1	424.5	434.9	445.9
49°	449.4	446.1	437.2	426.0	415.5	408.1	405.4	408.1	415.5	426.0	437.2
50°	441.0	437.5	428.4	417.1	406.4	398.9	396.3	398.9	406.4	417.1	428.4
51°	432.0	428.6	419.5	408.0	397.3	389.8	387.1	389.8	397.3	408.0	419.5
52°	422.8	419.3	410.2	398.6	387.8	380.3	377.7	380.3	387.8	398.6	410.2
53°	413.6	410.1	400.9	389.2	378.4	370.9	368.0	370.9	378.4	389.2	400.9
54°	404.0	400.5	391.2	379.5	368.8	361.3	358.7	361.3	368.8	379.5	391.2
55°	394.4	390.8	381.5	369.7	358.9	351.5	348.6	351.5	358.9	369.7	381.5
56°	384.4	380.8	371.5	359.8	349.0	341.6	338.9	341.6	349.0	359.8	371.5
57°	374.4	370.7	361.5	349.7	339.0	331.7	328.9	331.7	339.0	349.7	361.5
58°	364.0	360.4	351.1	339.5	328.8	321.5	318.8	321.5	328.8	339.5	351.1
59°	353.4	349.8	340.7	329.0	318.5	311.3	308.7	311.3	318.5	329.0	340.7
60°	342.7	339.1	330.1	318.5	308.2	301.3	299.4	301.3	308.2	318.5	330.1
61°	331.6	328.1	319.1	307.8	298.0	291.2	289.0	291.2	298.0	307.8	319.1
62°	320.6	317.0	308.2	297.2	287.6	281.0	278.8	281.0	287.6	297.2	308.2
63°	309.3	305.8	296.8	286.8	277.2	270.7	268.3	270.7	277.2	286.8	296.8
64°	300.7	294.6	286.3	276.1	266.4	260.1	257.7	260.1	266.4	276.1	286.3
65°	287.9	283.5	275.4	264.9	255.6	249.4	247.1	249.4	255.6	264.9	275.4
66°	275.2	272.0	263.8	253.7	244.7	238.7	236.5	238.7	244.7	253.7	263.8
67°	263.3	260.2	252.2	242.5	233.8	227.9	225.9	227.9	233.8	242.5	252.2
68°	251.1	248.1	240.5	231.2	222.7	217.2	215.2	217.2	222.7	231.2	240.5
69°	238.9	236.0	228.7	219.7	211.7	206.5	204.6	206.5	211.7	219.7	228.7
70°	226.6	223.8	216.8	208.4	200.7	195.7	193.9	195.7	200.7	208.4	216.8
71°	214.1	211.5	204.9	196.9	189.7	185.0	183.3	185.0	189.7	196.9	204.9
72°	201.6	199.2	193.0	185.5	178.7	174.3	172.7	174.3	178.7	185.5	193.0
73°	189.2	187.0	181.0	174.1	167.7	163.6	162.1	163.6	167.7	174.1	181.0
74°	176.6	174.6	169.2	162.7	156.9	153.1	151.7	153.1	156.9	162.7	169.2
75°	164.1	162.2	157.3	151.3	146.0	142.5	141.2	142.5	146.0	151.3	157.3
76°	151.8	150.0	145.6	140.2	135.3	132.1	131.0	132.1	135.3	140.2	145.6
77°	139.4	137.9	133.9	129.0	124.6	121.7	120.6	121.7	124.6	129.0	133.9
78°	127.2	125.7	122.2	117.9	114.1	111.5	110.5	111.5	114.1	117.9	122.2
79°	115.1	113.9	110.9	107.1	103.6	101.3	100.5	101.3	103.6	107.1	110.9
80°	103.1	102.2	99.6	96.3	93.3	91.3	90.6	91.3	93.3	96.3	99.6
81°	91.2	90.5	88.5	85.7	83.2	81.6	81.0	81.6	83.2	85.7	88.5
82°	79.5	79.0	77.5	75.3	73.2	72.1	71.7	72.1	73.2	75.3	77.5
83°	67.9	67.5	66.6	65.0	63.5	62.7	62.3	62.7	63.5	65.0	66.6
84°	56.6	56.5	55.9	55.1	54.2	53.9	53.7	53.9	54.2	55.1	55.9
85°	45.7	45.7	45.5	45.4	45.6	45.9	45.9	45.9	45.6	45.4	45.5
86°	35.3	35.4	35.7	36.7	37.9	38.5	38.7	38.5	37.9	36.7	35.7
87°	25.3	25.8	26.9	28.8	30.7	31.7	31.9	31.7	30.7	28.8	26.9
88°	16.4	17.0	19.3	21.9	23.8	25.1	25.0	25.1	23.8	21.9	19.3
89°	7.9	9.4	12.0	14.8	16.4	17.7	16.8	17.7	16.4	14.8	12.0



TEST NUMBER: P973013

CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-LOW-3500K

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: P973013

CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-LOW-3500K

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: P973013
CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-LOW-3500K

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: P973013

CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-LOW-3500K

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	637.1	637.1	637.1	637.1	637.1	637.1	637.1	637.1	637.1	637.1	637.1
1°	637.1	636.8	637.1	637.0	637.1	636.8	637.0	636.8	637.0	636.8	637.1
2°	636.9	636.5	636.9	636.8	636.8	636.6	636.6	636.5	636.6	636.6	636.8
3°	636.6	636.2	636.6	636.4	636.4	636.1	636.3	636.1	636.3	636.1	636.4
4°	636.0	635.8	636.0	635.9	635.7	635.5	635.6	635.4	635.6	635.5	635.7
5°	635.3	635.2	635.3	635.2	635.1	634.7	634.6	634.5	634.6	634.7	635.1
6°	634.6	634.4	634.6	634.3	634.2	633.7	633.6	633.5	633.6	633.7	634.2
7°	633.7	633.6	633.7	633.4	633.0	632.5	632.3	632.0	632.3	632.5	633.0
8°	632.5	632.7	632.5	632.2	631.7	631.2	630.9	630.6	630.9	631.2	631.7
9°	631.3	631.3	631.3	630.9	630.5	629.7	629.2	628.9	629.2	629.7	630.5
10°	630.0	630.3	630.0	629.4	628.7	628.1	627.4	627.0	627.4	628.1	628.7
11°	628.6	628.9	628.6	627.8	627.3	626.6	625.8	625.4	625.8	626.6	627.3
12°	627.5	627.7	627.5	626.8	625.8	625.0	624.1	624.0	624.1	625.0	625.8
13°	626.6	626.7	626.6	625.7	624.5	623.3	622.3	622.2	622.3	623.3	624.5
14°	625.3	625.6	625.3	624.0	622.6	621.3	620.1	619.4	620.1	621.3	622.6
15°	623.1	623.6	623.1	621.7	620.1	618.5	617.3	616.6	617.3	618.5	620.1
16°	620.7	621.4	620.7	619.4	617.5	615.6	614.2	613.4	614.2	615.6	617.5
17°	618.3	619.0	618.3	616.6	614.6	612.6	610.9	610.2	610.9	612.6	614.6
18°	615.6	616.5	615.6	613.9	611.5	609.3	607.5	606.6	607.5	609.3	611.5
19°	612.9	613.8	612.9	610.9	608.3	605.8	603.8	602.8	603.8	605.8	608.3
20°	610.0	610.9	610.0	607.8	604.9	602.1	599.9	598.9	599.9	602.1	604.9
21°	606.9	607.9	606.9	604.4	601.3	598.4	596.0	594.9	596.0	598.4	601.3
22°	603.6	604.8	603.6	601.0	597.7	594.2	591.7	590.6	591.7	594.2	597.7
23°	600.3	601.4	600.3	597.4	593.6	590.0	587.3	586.0	587.3	590.0	593.6
24°	596.6	597.9	596.6	593.5	589.4	585.5	582.6	581.4	582.6	585.5	589.4
25°	592.8	594.0	592.8	589.5	585.2	581.0	577.8	576.4	577.8	581.0	585.2
26°	588.8	590.2	588.8	585.4	580.6	576.2	572.7	571.4	572.7	576.2	580.6
27°	584.7	586.2	584.7	581.2	576.0	571.2	567.5	566.0	567.5	571.2	576.0
28°	580.6	581.9	580.6	576.6	571.1	566.0	562.1	560.8	562.1	566.0	571.1
29°	576.0	577.6	576.0	571.9	566.1	560.6	556.6	555.1	556.6	560.6	566.1
30°	571.4	573.1	571.4	567.0	560.9	555.1	550.8	549.2	550.8	555.1	560.9
31°	566.6	568.3	566.6	562.0	555.5	549.4	544.9	543.3	544.9	549.4	555.5
32°	561.6	563.5	561.6	556.7	549.8	543.4	538.8	537.1	538.8	543.4	549.8
33°	556.4	558.3	556.4	551.2	544.0	537.2	532.4	530.6	532.4	537.2	544.0
34°	551.0	553.1	551.0	545.5	538.2	531.1	525.8	524.1	525.8	531.1	538.2
35°	545.4	547.6	545.4	539.8	532.0	524.6	519.4	517.5	519.4	524.6	532.0
36°	539.7	542.0	539.7	533.7	525.6	517.9	512.4	510.6	512.4	517.9	525.6
37°	533.7	536.1	533.7	527.5	519.1	511.2	505.5	503.5	505.5	511.2	519.1
38°	527.6	530.1	527.6	521.0	512.4	504.1	498.4	496.3	498.4	504.1	512.4
39°	521.2	523.8	521.2	514.4	505.5	497.0	491.0	488.7	491.0	497.0	505.5
40°	514.7	517.4	514.7	507.5	498.3	489.6	483.4	481.2	483.4	489.6	498.3
41°	507.9	510.6	507.9	500.6	491.1	482.1	475.7	473.5	475.7	482.1	491.1
42°	500.9	503.8	500.9	493.3	483.6	474.4	467.8	465.5	467.8	474.4	483.6
43°	493.8	496.7	493.8	486.0	475.9	466.5	459.8	457.5	459.8	466.5	475.9
44°	486.4	489.5	486.4	478.4	468.1	458.4	451.6	449.1	451.6	458.4	468.1

TEST NUMBER: P973013

CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-LOW-3500K

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	478.8	481.8	478.8	470.5	460.0	450.2	443.2	440.7	443.2	450.2	460.0
46°	470.9	474.1	470.9	462.4	451.7	441.8	434.7	432.1	434.7	441.8	451.7
47°	462.9	466.1	462.9	454.2	443.4	433.2	425.9	423.4	425.9	433.2	443.4
48°	454.7	458.0	454.7	445.9	434.9	424.5	417.1	414.6	417.1	424.5	434.9
49°	446.1	449.4	446.1	437.2	426.0	415.5	408.1	405.4	408.1	415.5	426.0
50°	437.5	441.0	437.5	428.4	417.1	406.4	398.9	396.3	398.9	406.4	417.1
51°	428.6	432.0	428.6	419.5	408.0	397.3	389.8	387.1	389.8	397.3	408.0
52°	419.3	422.8	419.3	410.2	398.6	387.8	380.3	377.7	380.3	387.8	398.6
53°	410.1	413.6	410.1	400.9	389.2	378.4	370.9	368.0	370.9	378.4	389.2
54°	400.5	404.0	400.5	391.2	379.5	368.8	361.3	358.7	361.3	368.8	379.5
55°	390.8	394.4	390.8	381.5	369.7	358.9	351.5	348.6	351.5	358.9	369.7
56°	380.8	384.4	380.8	371.5	359.8	349.0	341.6	338.9	341.6	349.0	359.8
57°	370.7	374.4	370.7	361.5	349.7	339.0	331.7	328.9	331.7	339.0	349.7
58°	360.4	364.0	360.4	351.1	339.5	328.8	321.5	318.8	321.5	328.8	339.5
59°	349.8	353.4	349.8	340.7	329.0	318.5	311.3	308.7	311.3	318.5	329.0
60°	339.1	342.7	339.1	330.1	318.5	308.2	301.3	299.4	301.3	308.2	318.5
61°	328.1	331.6	328.1	319.1	307.8	298.0	291.2	289.0	291.2	298.0	307.8
62°	317.0	320.6	317.0	308.2	297.2	287.6	281.0	278.8	281.0	287.6	297.2
63°	305.8	309.3	305.8	296.8	286.8	277.2	270.7	268.3	270.7	277.2	286.8
64°	294.6	300.7	294.6	286.3	276.1	266.4	260.1	257.7	260.1	266.4	276.1
65°	283.5	287.9	283.5	275.4	264.9	255.6	249.4	247.1	249.4	255.6	264.9
66°	272.0	275.2	272.0	263.8	253.7	244.7	238.7	236.5	238.7	244.7	253.7
67°	260.2	263.3	260.2	252.2	242.5	233.8	227.9	225.9	227.9	233.8	242.5
68°	248.1	251.1	248.1	240.5	231.2	222.7	217.2	215.2	217.2	222.7	231.2
69°	236.0	238.9	236.0	228.7	219.7	211.7	206.5	204.6	206.5	211.7	219.7
70°	223.8	226.6	223.8	216.8	208.4	200.7	195.7	193.9	195.7	200.7	208.4
71°	211.5	214.1	211.5	204.9	196.9	189.7	185.0	183.3	185.0	189.7	196.9
72°	199.2	201.6	199.2	193.0	185.5	178.7	174.3	172.7	174.3	178.7	185.5
73°	187.0	189.2	187.0	181.0	174.1	167.7	163.6	162.1	163.6	167.7	174.1
74°	174.6	176.6	174.6	169.2	162.7	156.9	153.1	151.7	153.1	156.9	162.7
75°	162.2	164.1	162.2	157.3	151.3	146.0	142.5	141.2	142.5	146.0	151.3
76°	150.0	151.8	150.0	145.6	140.2	135.3	132.1	131.0	132.1	135.3	140.2
77°	137.9	139.4	137.9	133.9	129.0	124.6	121.7	120.6	121.7	124.6	129.0
78°	125.7	127.2	125.7	122.2	117.9	114.1	111.5	110.5	111.5	114.1	117.9
79°	113.9	115.1	113.9	110.9	107.1	103.6	101.3	100.5	101.3	103.6	107.1
80°	102.2	103.1	102.2	99.6	96.3	93.3	91.3	90.6	91.3	93.3	96.3
81°	90.5	91.2	90.5	88.5	85.7	83.2	81.6	81.0	81.6	83.2	85.7
82°	79.0	79.5	79.0	77.5	75.3	73.2	72.1	71.7	72.1	73.2	75.3
83°	67.5	67.9	67.5	66.6	65.0	63.5	62.7	62.3	62.7	63.5	65.0
84°	56.5	56.6	56.5	55.9	55.1	54.2	53.9	53.7	53.9	54.2	55.1
85°	45.7	45.7	45.7	45.5	45.4	45.6	45.9	45.9	45.9	45.6	45.4
86°	35.4	35.3	35.4	35.7	36.7	37.9	38.5	38.7	38.5	37.9	36.7
87°	25.8	25.3	25.8	26.9	28.8	30.7	31.7	31.9	31.7	30.7	28.8
88°	17.0	16.4	17.0	19.3	21.9	23.8	25.1	25.0	25.1	23.8	21.9
89°	9.4	7.9	9.4	12.0	14.8	16.4	17.7	16.8	17.7	16.4	14.8



TEST NUMBER: P973013

CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-LOW-3500K

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: P973013

CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-LOW-3500K

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: P973013
CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-LOW-3500K

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: P973013

CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-LOW-3500K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	637.1	637.1	637.1
1°	637.0	637.1	636.8
2°	636.8	636.9	636.5
3°	636.4	636.6	636.2
4°	635.9	636.0	635.8
5°	635.2	635.3	635.2
6°	634.3	634.6	634.4
7°	633.4	633.7	633.6
8°	632.2	632.5	632.7
9°	630.9	631.3	631.3
10°	629.4	630.0	630.3
11°	627.8	628.6	628.9
12°	626.8	627.5	627.7
13°	625.7	626.6	626.7
14°	624.0	625.3	625.6
15°	621.7	623.1	623.6
16°	619.4	620.7	621.4
17°	616.6	618.3	619.0
18°	613.9	615.6	616.5
19°	610.9	612.9	613.8
20°	607.8	610.0	610.9
21°	604.4	606.9	607.9
22°	601.0	603.6	604.8
23°	597.4	600.3	601.4
24°	593.5	596.6	597.9
25°	589.5	592.8	594.0
26°	585.4	588.8	590.2
27°	581.2	584.7	586.2
28°	576.6	580.6	581.9
29°	571.9	576.0	577.6
30°	567.0	571.4	573.1
31°	562.0	566.6	568.3
32°	556.7	561.6	563.5
33°	551.2	556.4	558.3
34°	545.5	551.0	553.1
35°	539.8	545.4	547.6
36°	533.7	539.7	542.0
37°	527.5	533.7	536.1
38°	521.0	527.6	530.1
39°	514.4	521.2	523.8
40°	507.5	514.7	517.4
41°	500.6	507.9	510.6
42°	493.3	500.9	503.8
43°	486.0	493.8	496.7
44°	478.4	486.4	489.5

TEST NUMBER: P973013

CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-LOW-3500K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	470.5	478.8	481.8
46°	462.4	470.9	474.1
47°	454.2	462.9	466.1
48°	445.9	454.7	458.0
49°	437.2	446.1	449.4
50°	428.4	437.5	441.0
51°	419.5	428.6	432.0
52°	410.2	419.3	422.8
53°	400.9	410.1	413.6
54°	391.2	400.5	404.0
55°	381.5	390.8	394.4
56°	371.5	380.8	384.4
57°	361.5	370.7	374.4
58°	351.1	360.4	364.0
59°	340.7	349.8	353.4
60°	330.1	339.1	342.7
61°	319.1	328.1	331.6
62°	308.2	317.0	320.6
63°	296.8	305.8	309.3
64°	286.3	294.6	300.7
65°	275.4	283.5	287.9
66°	263.8	272.0	275.2
67°	252.2	260.2	263.3
68°	240.5	248.1	251.1
69°	228.7	236.0	238.9
70°	216.8	223.8	226.6
71°	204.9	211.5	214.1
72°	193.0	199.2	201.6
73°	181.0	187.0	189.2
74°	169.2	174.6	176.6
75°	157.3	162.2	164.1
76°	145.6	150.0	151.8
77°	133.9	137.9	139.4
78°	122.2	125.7	127.2
79°	110.9	113.9	115.1
80°	99.6	102.2	103.1
81°	88.5	90.5	91.2
82°	77.5	79.0	79.5
83°	66.6	67.5	67.9
84°	55.9	56.5	56.6
85°	45.5	45.7	45.7
86°	35.7	35.4	35.3
87°	26.9	25.8	25.3
88°	19.3	17.0	16.4
89°	12.0	9.4	7.9

TEST NUMBER: P973013

CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-LOW-3500K

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: P973013

CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-LOW-3500K

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: P973013

CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-LOW-3500K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0

TEST NUMBER: P973013

CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-LOW-3500K

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	15.31	16.99	15.68	17.31	17.62	14.60	16.28	14.97	16.60	16.91
	3H	17.34	18.87	17.72	19.19	19.55	16.52	18.04	16.90	18.37	18.73
	4H	18.13	19.57	18.53	19.92	20.29	17.27	18.71	17.67	19.06	19.43
	6H	18.74	20.07	19.15	20.44	20.83	17.87	19.21	18.28	19.57	19.96
	8H	18.94	20.22	19.37	20.61	21.01	18.09	19.37	18.51	19.76	20.15
	12H	19.04	20.27	19.47	20.65	21.08	18.21	19.43	18.64	19.82	20.24
4H	2H	15.92	17.36	16.32	17.71	18.08	15.37	16.81	15.77	17.16	17.53
	3H	18.18	19.39	18.59	19.79	20.19	17.50	18.71	17.91	19.11	19.51
	4H	19.11	20.21	19.54	20.62	21.06	18.38	19.49	18.81	19.90	20.33
	6H	19.86	20.83	20.32	21.27	21.72	19.11	20.08	19.57	20.52	20.97
	8H	20.13	21.04	20.59	21.48	21.94	19.39	20.29	19.84	20.73	21.20
	12H	20.30	21.12	20.78	21.59	22.06	19.58	20.40	20.06	20.87	21.34
8H	4H	19.43	20.33	19.88	20.77	21.24	18.79	19.70	19.25	20.14	20.61
	6H	20.32	21.08	20.81	21.56	22.04	19.66	20.42	20.16	20.91	21.38
	8H	20.67	21.35	21.18	21.86	22.34	20.02	20.70	20.53	21.21	21.69
	12H	20.94	21.54	21.44	22.03	22.59	20.32	20.92	20.82	21.41	21.97
12H	4H	19.47	20.28	19.95	20.76	21.23	18.86	19.67	19.33	20.15	20.61
	6H	20.39	21.07	20.89	21.57	22.06	19.76	20.44	20.26	20.94	21.43
	8H	20.80	21.41	21.31	21.90	22.45	20.19	20.79	20.69	21.28	21.84