

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: P973022

Luminaire Tested: 22CGRK-L3C3-UNV-MP4-LOW-3500K

Issue Date: 3/12/2025

Test Information

Test Method: LM-79-2019
Report Number: P973022
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-3500K
Description: 2x2 CGRK Backlit Panel Retrofit Kit at, LOW lumen, 3500K CCT settings
Light Source: -
Ballast/Driver: -

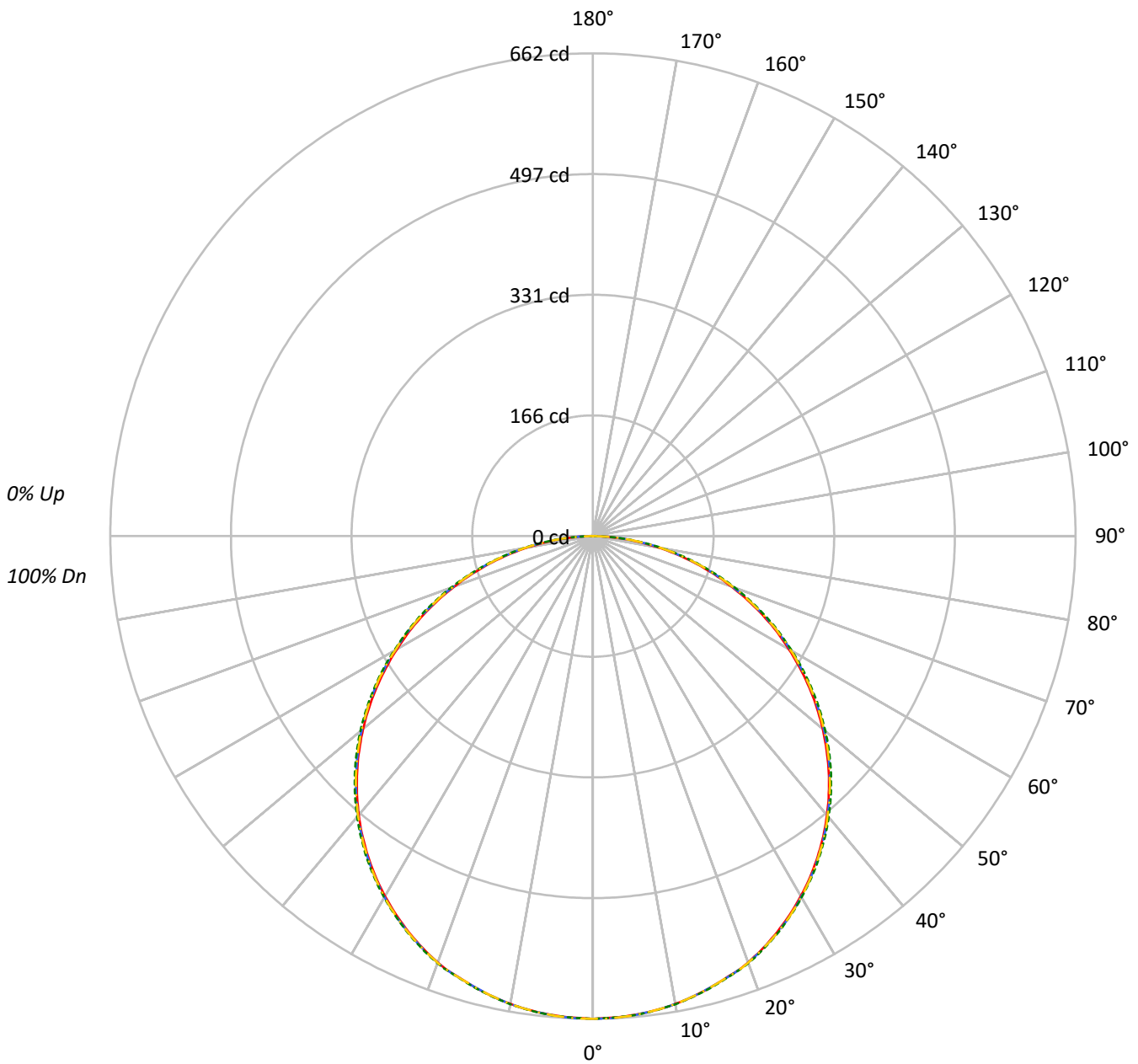
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2000.0 lumens
Efficiency: N/A
Efficacy: 139.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 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: P973022
CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-LOW-3500K

Luminous Intensity Polar Plot



0% Up
100% Dn

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



TEST NUMBER: P973022

CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-LOW-3500K

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°	2120	2120	2120	2120
5°	2119	2119	2119	2119
10°	2118	2120	2118	2120
15°	2117	2119	2117	2119
20°	2121	2125	2121	2125
25°	2116	2122	2116	2122
30°	2108	2117	2108	2117
35°	2100	2112	2100	2112
40°	2088	2104	2088	2104
45°	2071	2091	2071	2091
50°	2050	2074	2050	2074
55°	2022	2051	2022	2051
60°	1987	2021	1987	2021
65°	1948	1991	1948	1991
70°	1891	1942	1891	1942
75°	1819	1880	1819	1880
80°	1699	1794	1699	1794
85°	1477	1657	1477	1657

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2091 cd/sqm



TEST NUMBER: P973022

CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-LOW-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.7	3.1
10°-20°	180.5	9.0
20°-30°	276.4	13.8
30°-40°	337.0	16.9
40°-50°	354.4	17.7
50°-60°	326.0	16.3
60°-70°	257.0	12.9
70°-80°	157.9	7.9
80°-90°	48.1	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°	519.5	26.0
0°-40°	856.5	42.8
0°-60°	1536.9	76.8
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°	662	662	662	662	662	
5°	659	659	659	659	659	63
15°	638	639	638	639	638	180
25°	599	600	599	600	599	276
35°	537	540	537	540	537	336
45°	457	462	457	462	457	353
55°	362	367	362	367	362	324
65°	257	263	257	263	257	254
75°	147	152	147	152	147	155
85°	40	45	40	45	40	43
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: P973022

CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-LOW-3500K

CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1
1°	661.6	662.1	661.8	662.0	661.8	661.9	661.5	661.9	661.8	662.0	661.8
2°	661.2	661.7	661.5	661.8	661.5	661.4	661.3	661.4	661.5	661.8	661.5
3°	660.8	661.1	660.9	661.3	661.1	661.1	660.8	661.1	661.1	661.3	660.9
4°	659.9	660.5	660.3	660.4	660.2	660.1	660.2	660.1	660.2	660.4	660.3
5°	659.1	659.5	659.4	659.4	659.4	659.3	659.3	659.3	659.4	659.4	659.4
6°	657.8	658.4	658.1	658.1	658.1	658.2	658.4	658.2	658.1	658.1	658.1
7°	656.8	656.9	656.8	656.7	656.7	656.9	657.1	656.9	656.7	656.7	656.8
8°	655.2	655.3	655.3	655.3	655.4	655.4	655.4	655.4	655.4	655.3	655.3
9°	653.5	653.4	653.6	653.5	653.4	653.5	653.7	653.5	653.4	653.5	653.6
10°	651.4	651.6	651.4	651.4	651.5	651.8	651.9	651.8	651.5	651.4	651.4
11°	649.4	649.0	649.1	649.3	649.2	649.4	649.5	649.4	649.2	649.3	649.1
12°	646.9	646.6	646.8	646.8	646.9	647.2	647.4	647.2	646.9	646.8	646.8
13°	644.4	644.2	644.1	644.2	644.5	644.6	644.7	644.6	644.5	644.2	644.1
14°	641.5	641.3	641.3	641.4	641.6	641.7	642.1	641.7	641.6	641.4	641.3
15°	638.5	638.2	638.4	638.4	638.7	638.8	639.2	638.8	638.7	638.4	638.4
16°	635.4	635.0	635.1	635.4	635.6	635.7	636.0	635.7	635.6	635.4	635.1
17°	632.2	632.3	632.2	632.5	632.2	632.7	632.7	632.7	632.2	632.5	632.2
18°	629.5	629.4	629.4	629.6	629.6	629.8	629.8	629.8	629.6	629.6	629.4
19°	626.5	626.1	626.5	626.7	626.7	626.9	627.0	626.9	626.7	626.7	626.5
20°	622.3	622.0	622.4	622.7	623.0	623.3	623.5	623.3	623.0	622.7	622.4
21°	617.9	617.7	618.1	618.5	618.9	619.0	619.2	619.0	618.9	618.5	618.1
22°	613.5	613.3	613.6	613.9	614.4	614.6	614.8	614.6	614.4	613.9	613.6
23°	608.8	608.7	608.9	609.4	609.9	610.2	610.1	610.2	609.9	609.4	608.9
24°	603.6	603.8	604.0	604.7	605.0	605.3	605.5	605.3	605.0	604.7	604.0
25°	598.7	598.6	599.0	599.6	600.0	600.5	600.5	600.5	600.0	599.6	599.0
26°	593.2	593.4	593.7	594.4	594.9	595.2	595.2	595.2	594.9	594.4	593.7
27°	587.9	587.9	588.4	589.1	589.5	589.8	589.7	589.8	589.5	589.1	588.4
28°	582.1	582.4	582.9	583.4	583.9	584.2	584.2	584.2	583.9	583.4	582.9
29°	576.1	576.4	577.0	577.6	578.2	578.4	578.4	578.4	578.2	577.6	577.0
30°	570.1	570.5	571.0	571.6	572.2	572.5	572.4	572.5	572.2	571.6	571.0
31°	564.1	564.2	564.6	565.4	565.9	566.3	566.4	566.3	565.9	565.4	564.6
32°	557.7	557.9	558.4	559.0	559.6	560.0	560.0	560.0	559.6	559.0	558.4
33°	551.1	551.2	551.7	552.3	553.0	553.5	553.7	553.5	553.0	552.3	551.7
34°	544.2	544.5	544.9	545.5	546.4	546.8	546.9	546.8	546.4	545.5	544.9
35°	537.2	537.4	538.0	538.7	539.4	540.0	540.2	540.0	539.4	538.7	538.0
36°	530.0	530.4	530.8	531.4	532.3	533.0	533.2	533.0	532.3	531.4	530.8
37°	522.6	522.9	523.5	524.2	525.0	525.6	525.8	525.6	525.0	524.2	523.5
38°	515.3	515.4	515.9	516.6	517.6	518.1	518.6	518.1	517.6	516.6	515.9
39°	507.4	507.7	508.3	509.0	510.0	510.7	510.9	510.7	510.0	509.0	508.3
40°	499.4	499.8	500.5	501.0	502.3	502.8	503.2	502.8	502.3	501.0	500.5
41°	491.3	491.6	492.2	493.0	494.3	494.8	495.1	494.8	494.3	493.0	492.2
42°	483.1	483.5	484.2	484.9	486.2	486.7	487.2	486.7	486.2	484.9	484.2
43°	474.6	475.0	475.7	476.5	477.7	478.3	478.9	478.3	477.7	476.5	475.7
44°	466.0	466.5	467.4	468.0	469.4	469.9	470.3	469.9	469.4	468.0	467.4



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CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-LOW-3500K

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	457.3	457.8	458.6	459.4	460.7	461.3	461.8	461.3	460.7	459.4	458.6
46°	448.6	448.9	449.7	450.5	451.9	452.5	453.0	452.5	451.9	450.5	449.7
47°	439.3	439.8	440.7	441.7	442.9	443.5	444.0	443.5	442.9	441.7	440.7
48°	430.1	430.6	431.6	432.5	433.9	434.5	435.0	434.5	433.9	432.5	431.6
49°	420.8	421.2	422.2	423.4	424.5	425.1	425.8	425.1	424.5	423.4	422.2
50°	411.4	411.7	412.8	414.0	415.2	415.9	416.3	415.9	415.2	414.0	412.8
51°	401.7	402.1	403.2	404.4	405.5	406.4	406.8	406.4	405.5	404.4	403.2
52°	392.0	392.4	393.4	394.8	396.0	396.7	397.0	396.7	396.0	394.8	393.4
53°	382.3	382.5	383.7	385.2	386.1	387.0	387.3	387.0	386.1	385.2	383.7
54°	372.2	372.6	373.6	375.0	376.2	377.1	377.3	377.1	376.2	375.0	373.6
55°	362.1	362.5	363.7	365.1	366.2	367.2	367.3	367.2	366.2	365.1	363.7
56°	352.0	352.3	353.3	355.0	356.1	356.9	357.1	356.9	356.1	355.0	353.3
57°	341.6	342.0	343.1	344.6	345.7	346.7	347.0	346.7	345.7	344.6	343.1
58°	331.2	331.6	332.8	334.4	335.4	336.4	336.6	336.4	335.4	334.4	332.8
59°	320.9	321.1	322.1	323.8	324.8	325.9	326.2	325.9	324.8	323.8	322.1
60°	310.2	310.5	311.7	313.2	314.4	315.4	315.6	315.4	314.4	313.2	311.7
61°	300.0	300.3	301.4	303.4	303.7	304.7	304.4	304.7	303.7	303.4	301.4
62°	289.6	290.0	291.0	292.5	293.5	294.7	294.7	294.7	293.5	292.5	291.0
63°	279.1	279.4	280.4	281.9	283.2	284.2	284.5	284.2	283.2	281.9	280.4
64°	268.0	268.5	269.6	271.1	272.4	273.3	273.7	273.3	272.4	271.1	269.6
65°	257.1	257.6	258.7	260.1	261.4	262.4	262.7	262.4	261.4	260.1	258.7
66°	246.2	246.6	247.7	249.0	250.4	251.3	251.7	251.3	250.4	249.0	247.7
67°	235.2	235.6	236.6	238.0	239.4	240.4	240.7	240.4	239.4	238.0	236.6
68°	224.2	224.6	225.6	226.9	228.4	229.2	229.6	229.2	228.4	226.9	225.6
69°	213.1	213.6	214.6	215.9	217.3	218.1	218.6	218.1	217.3	215.9	214.6
70°	202.0	202.5	203.5	204.9	206.1	207.0	207.4	207.0	206.1	204.9	203.5
71°	191.0	191.4	192.4	193.7	195.0	196.0	196.4	196.0	195.0	193.7	192.4
72°	180.0	180.4	181.4	182.7	184.0	184.8	185.2	184.8	184.0	182.7	181.4
73°	169.0	169.3	170.4	171.6	172.9	173.7	174.0	173.7	172.9	171.6	170.4
74°	157.9	158.3	159.4	160.7	161.9	162.7	163.0	162.7	161.9	160.7	159.4
75°	147.0	147.4	148.4	149.7	150.9	151.6	151.9	151.6	150.9	149.7	148.4
76°	136.0	136.4	137.6	138.8	139.9	140.6	140.9	140.6	139.9	138.8	137.6
77°	125.1	125.6	126.7	127.9	129.0	129.7	129.9	129.7	129.0	127.9	126.7
78°	114.1	114.6	115.8	117.1	118.2	118.8	118.9	118.8	118.2	117.1	115.8
79°	103.0	103.6	105.1	106.4	107.3	108.0	108.1	108.0	107.3	106.4	105.1
80°	92.1	92.6	94.1	95.7	96.6	97.2	97.3	97.2	96.6	95.7	94.1
81°	81.3	81.8	83.3	85.1	86.1	86.6	86.6	86.6	86.1	85.1	83.3
82°	70.7	71.2	72.6	74.3	75.6	76.1	76.2	76.1	75.6	74.3	72.6
83°	60.2	60.6	61.8	63.6	65.0	65.6	65.6	65.6	65.0	63.6	61.8
84°	50.1	50.4	51.5	53.0	54.7	55.4	55.4	55.4	54.7	53.0	51.5
85°	40.2	40.5	41.4	42.8	44.4	45.3	45.1	45.3	44.4	42.8	41.4
86°	30.6	30.9	31.8	32.9	34.1	34.8	34.7	34.8	34.1	32.9	31.8
87°	21.8	22.0	22.6	23.3	23.8	24.6	24.5	24.6	23.8	23.3	22.6
88°	13.8	13.9	14.2	14.7	14.6	15.4	15.2	15.4	14.6	14.7	14.2
89°	6.6	6.7	6.8	7.0	6.4	6.7	6.7	6.7	6.4	7.0	6.8



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 CATALOG NUMBER: 22CGRK-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: P973022
 CATALOG NUMBER: 22CGRK-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: P973022

CATALOG NUMBER: 22CGRK-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: P973022

CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-LOW-3500K

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1
1°	662.1	661.6	662.1	661.8	662.0	661.8	661.9	661.5	661.9	661.8	662.0
2°	661.7	661.2	661.7	661.5	661.8	661.5	661.4	661.3	661.4	661.5	661.8
3°	661.1	660.8	661.1	660.9	661.3	661.1	661.1	660.8	661.1	661.1	661.3
4°	660.5	659.9	660.5	660.3	660.4	660.2	660.1	660.2	660.1	660.2	660.4
5°	659.5	659.1	659.5	659.4	659.4	659.4	659.3	659.3	659.3	659.4	659.4
6°	658.4	657.8	658.4	658.1	658.1	658.1	658.2	658.4	658.2	658.1	658.1
7°	656.9	656.8	656.9	656.8	656.7	656.7	656.9	657.1	656.9	656.7	656.7
8°	655.3	655.2	655.3	655.3	655.3	655.4	655.4	655.4	655.4	655.4	655.3
9°	653.4	653.5	653.4	653.6	653.5	653.4	653.5	653.7	653.5	653.4	653.5
10°	651.6	651.4	651.6	651.4	651.4	651.5	651.8	651.9	651.8	651.5	651.4
11°	649.0	649.4	649.0	649.1	649.3	649.2	649.4	649.5	649.4	649.2	649.3
12°	646.6	646.9	646.6	646.8	646.8	646.9	647.2	647.4	647.2	646.9	646.8
13°	644.2	644.4	644.2	644.1	644.2	644.5	644.6	644.7	644.6	644.5	644.2
14°	641.3	641.5	641.3	641.3	641.4	641.6	641.7	642.1	641.7	641.6	641.4
15°	638.2	638.5	638.2	638.4	638.4	638.7	638.8	639.2	638.8	638.7	638.4
16°	635.0	635.4	635.0	635.1	635.4	635.6	635.7	636.0	635.7	635.6	635.4
17°	632.3	632.2	632.3	632.2	632.5	632.2	632.7	632.7	632.7	632.2	632.5
18°	629.4	629.5	629.4	629.4	629.6	629.6	629.8	629.8	629.8	629.6	629.6
19°	626.1	626.5	626.1	626.5	626.7	626.7	626.9	627.0	626.9	626.7	626.7
20°	622.0	622.3	622.0	622.4	622.7	623.0	623.3	623.5	623.3	623.0	622.7
21°	617.7	617.9	617.7	618.1	618.5	618.9	619.0	619.2	619.0	618.9	618.5
22°	613.3	613.5	613.3	613.6	613.9	614.4	614.6	614.8	614.6	614.4	613.9
23°	608.7	608.8	608.7	608.9	609.4	609.9	610.2	610.1	610.2	609.9	609.4
24°	603.8	603.6	603.8	604.0	604.7	605.0	605.3	605.5	605.3	605.0	604.7
25°	598.6	598.7	598.6	599.0	599.6	600.0	600.5	600.5	600.5	600.0	599.6
26°	593.4	593.2	593.4	593.7	594.4	594.9	595.2	595.2	595.2	594.9	594.4
27°	587.9	587.9	587.9	588.4	589.1	589.5	589.8	589.7	589.8	589.5	589.1
28°	582.4	582.1	582.4	582.9	583.4	583.9	584.2	584.2	584.2	583.9	583.4
29°	576.4	576.1	576.4	577.0	577.6	578.2	578.4	578.4	578.4	578.2	577.6
30°	570.5	570.1	570.5	571.0	571.6	572.2	572.5	572.4	572.5	572.2	571.6
31°	564.2	564.1	564.2	564.6	565.4	565.9	566.3	566.4	566.3	565.9	565.4
32°	557.9	557.7	557.9	558.4	559.0	559.6	560.0	560.0	560.0	559.6	559.0
33°	551.2	551.1	551.2	551.7	552.3	553.0	553.5	553.7	553.5	553.0	552.3
34°	544.5	544.2	544.5	544.9	545.5	546.4	546.8	546.9	546.8	546.4	545.5
35°	537.4	537.2	537.4	538.0	538.7	539.4	540.0	540.2	540.0	539.4	538.7
36°	530.4	530.0	530.4	530.8	531.4	532.3	533.0	533.2	533.0	532.3	531.4
37°	522.9	522.6	522.9	523.5	524.2	525.0	525.6	525.8	525.6	525.0	524.2
38°	515.4	515.3	515.4	515.9	516.6	517.6	518.1	518.6	518.1	517.6	516.6
39°	507.7	507.4	507.7	508.3	509.0	510.0	510.7	510.9	510.7	510.0	509.0
40°	499.8	499.4	499.8	500.5	501.0	502.3	502.8	503.2	502.8	502.3	501.0
41°	491.6	491.3	491.6	492.2	493.0	494.3	494.8	495.1	494.8	494.3	493.0
42°	483.5	483.1	483.5	484.2	484.9	486.2	486.7	487.2	486.7	486.2	484.9
43°	475.0	474.6	475.0	475.7	476.5	477.7	478.3	478.9	478.3	477.7	476.5
44°	466.5	466.0	466.5	467.4	468.0	469.4	469.9	470.3	469.9	469.4	468.0



TEST NUMBER: P973022
 CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-LOW-3500K

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	457.8	457.3	457.8	458.6	459.4	460.7	461.3	461.8	461.3	460.7	459.4
46°	448.9	448.6	448.9	449.7	450.5	451.9	452.5	453.0	452.5	451.9	450.5
47°	439.8	439.3	439.8	440.7	441.7	442.9	443.5	444.0	443.5	442.9	441.7
48°	430.6	430.1	430.6	431.6	432.5	433.9	434.5	435.0	434.5	433.9	432.5
49°	421.2	420.8	421.2	422.2	423.4	424.5	425.1	425.8	425.1	424.5	423.4
50°	411.7	411.4	411.7	412.8	414.0	415.2	415.9	416.3	415.9	415.2	414.0
51°	402.1	401.7	402.1	403.2	404.4	405.5	406.4	406.8	406.4	405.5	404.4
52°	392.4	392.0	392.4	393.4	394.8	396.0	396.7	397.0	396.7	396.0	394.8
53°	382.5	382.3	382.5	383.7	385.2	386.1	387.0	387.3	387.0	386.1	385.2
54°	372.6	372.2	372.6	373.6	375.0	376.2	377.1	377.3	377.1	376.2	375.0
55°	362.5	362.1	362.5	363.7	365.1	366.2	367.2	367.3	367.2	366.2	365.1
56°	352.3	352.0	352.3	353.3	355.0	356.1	356.9	357.1	356.9	356.1	355.0
57°	342.0	341.6	342.0	343.1	344.6	345.7	346.7	347.0	346.7	345.7	344.6
58°	331.6	331.2	331.6	332.8	334.4	335.4	336.4	336.6	336.4	335.4	334.4
59°	321.1	320.9	321.1	322.1	323.8	324.8	325.9	326.2	325.9	324.8	323.8
60°	310.5	310.2	310.5	311.7	313.2	314.4	315.4	315.6	315.4	314.4	313.2
61°	300.3	300.0	300.3	301.4	303.4	303.7	304.7	304.4	304.7	303.7	303.4
62°	290.0	289.6	290.0	291.0	292.5	293.5	294.7	294.7	294.7	293.5	292.5
63°	279.4	279.1	279.4	280.4	281.9	283.2	284.2	284.5	284.2	283.2	281.9
64°	268.5	268.0	268.5	269.6	271.1	272.4	273.3	273.7	273.3	272.4	271.1
65°	257.6	257.1	257.6	258.7	260.1	261.4	262.4	262.7	262.4	261.4	260.1
66°	246.6	246.2	246.6	247.7	249.0	250.4	251.3	251.7	251.3	250.4	249.0
67°	235.6	235.2	235.6	236.6	238.0	239.4	240.4	240.7	240.4	239.4	238.0
68°	224.6	224.2	224.6	225.6	226.9	228.4	229.2	229.6	229.2	228.4	226.9
69°	213.6	213.1	213.6	214.6	215.9	217.3	218.1	218.6	218.1	217.3	215.9
70°	202.5	202.0	202.5	203.5	204.9	206.1	207.0	207.4	207.0	206.1	204.9
71°	191.4	191.0	191.4	192.4	193.7	195.0	196.0	196.4	196.0	195.0	193.7
72°	180.4	180.0	180.4	181.4	182.7	184.0	184.8	185.2	184.8	184.0	182.7
73°	169.3	169.0	169.3	170.4	171.6	172.9	173.7	174.0	173.7	172.9	171.6
74°	158.3	157.9	158.3	159.4	160.7	161.9	162.7	163.0	162.7	161.9	160.7
75°	147.4	147.0	147.4	148.4	149.7	150.9	151.6	151.9	151.6	150.9	149.7
76°	136.4	136.0	136.4	137.6	138.8	139.9	140.6	140.9	140.6	139.9	138.8
77°	125.6	125.1	125.6	126.7	127.9	129.0	129.7	129.9	129.7	129.0	127.9
78°	114.6	114.1	114.6	115.8	117.1	118.2	118.8	118.9	118.8	118.2	117.1
79°	103.6	103.0	103.6	105.1	106.4	107.3	108.0	108.1	108.0	107.3	106.4
80°	92.6	92.1	92.6	94.1	95.7	96.6	97.2	97.3	97.2	96.6	95.7
81°	81.8	81.3	81.8	83.3	85.1	86.1	86.6	86.6	86.6	86.1	85.1
82°	71.2	70.7	71.2	72.6	74.3	75.6	76.1	76.2	76.1	75.6	74.3
83°	60.6	60.2	60.6	61.8	63.6	65.0	65.6	65.6	65.6	65.0	63.6
84°	50.4	50.1	50.4	51.5	53.0	54.7	55.4	55.4	55.4	54.7	53.0
85°	40.5	40.2	40.5	41.4	42.8	44.4	45.3	45.1	45.3	44.4	42.8
86°	30.9	30.6	30.9	31.8	32.9	34.1	34.8	34.7	34.8	34.1	32.9
87°	22.0	21.8	22.0	22.6	23.3	23.8	24.6	24.5	24.6	23.8	23.3
88°	13.9	13.8	13.9	14.2	14.7	14.6	15.4	15.2	15.4	14.6	14.7
89°	6.7	6.6	6.7	6.8	7.0	6.4	6.7	6.7	6.7	6.4	7.0



TEST NUMBER: P973022

CATALOG NUMBER: 22CGRK-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: P973022
 CATALOG NUMBER: 22CGRK-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: P973022
CATALOG NUMBER: 22CGRK-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: P973022

CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-LOW-3500K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	662.1	662.1	662.1
1°	661.8	662.1	661.6
2°	661.5	661.7	661.2
3°	660.9	661.1	660.8
4°	660.3	660.5	659.9
5°	659.4	659.5	659.1
6°	658.1	658.4	657.8
7°	656.8	656.9	656.8
8°	655.3	655.3	655.2
9°	653.6	653.4	653.5
10°	651.4	651.6	651.4
11°	649.1	649.0	649.4
12°	646.8	646.6	646.9
13°	644.1	644.2	644.4
14°	641.3	641.3	641.5
15°	638.4	638.2	638.5
16°	635.1	635.0	635.4
17°	632.2	632.3	632.2
18°	629.4	629.4	629.5
19°	626.5	626.1	626.5
20°	622.4	622.0	622.3
21°	618.1	617.7	617.9
22°	613.6	613.3	613.5
23°	608.9	608.7	608.8
24°	604.0	603.8	603.6
25°	599.0	598.6	598.7
26°	593.7	593.4	593.2
27°	588.4	587.9	587.9
28°	582.9	582.4	582.1
29°	577.0	576.4	576.1
30°	571.0	570.5	570.1
31°	564.6	564.2	564.1
32°	558.4	557.9	557.7
33°	551.7	551.2	551.1
34°	544.9	544.5	544.2
35°	538.0	537.4	537.2
36°	530.8	530.4	530.0
37°	523.5	522.9	522.6
38°	515.9	515.4	515.3
39°	508.3	507.7	507.4
40°	500.5	499.8	499.4
41°	492.2	491.6	491.3
42°	484.2	483.5	483.1
43°	475.7	475.0	474.6
44°	467.4	466.5	466.0



TEST NUMBER: P973022

CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-LOW-3500K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	458.6	457.8	457.3
46°	449.7	448.9	448.6
47°	440.7	439.8	439.3
48°	431.6	430.6	430.1
49°	422.2	421.2	420.8
50°	412.8	411.7	411.4
51°	403.2	402.1	401.7
52°	393.4	392.4	392.0
53°	383.7	382.5	382.3
54°	373.6	372.6	372.2
55°	363.7	362.5	362.1
56°	353.3	352.3	352.0
57°	343.1	342.0	341.6
58°	332.8	331.6	331.2
59°	322.1	321.1	320.9
60°	311.7	310.5	310.2
61°	301.4	300.3	300.0
62°	291.0	290.0	289.6
63°	280.4	279.4	279.1
64°	269.6	268.5	268.0
65°	258.7	257.6	257.1
66°	247.7	246.6	246.2
67°	236.6	235.6	235.2
68°	225.6	224.6	224.2
69°	214.6	213.6	213.1
70°	203.5	202.5	202.0
71°	192.4	191.4	191.0
72°	181.4	180.4	180.0
73°	170.4	169.3	169.0
74°	159.4	158.3	157.9
75°	148.4	147.4	147.0
76°	137.6	136.4	136.0
77°	126.7	125.6	125.1
78°	115.8	114.6	114.1
79°	105.1	103.6	103.0
80°	94.1	92.6	92.1
81°	83.3	81.8	81.3
82°	72.6	71.2	70.7
83°	61.8	60.6	60.2
84°	51.5	50.4	50.1
85°	41.4	40.5	40.2
86°	31.8	30.9	30.6
87°	22.6	22.0	21.8
88°	14.2	13.9	13.8
89°	6.8	6.7	6.6



TEST NUMBER: P973022
CATALOG NUMBER: 22CGRK-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: P973022

CATALOG NUMBER: 22CGRK-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: P973022
CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-LOW-3500K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0



TEST NUMBER: P973022
 CATALOG NUMBER: 22CGRK-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	14.63	16.30	14.99	16.61	16.92	14.71	16.38	15.08	16.70	17.01
	3H	16.57	18.08	16.94	18.41	18.77	16.68	18.20	17.06	18.52	18.88
	4H	17.33	18.76	17.73	19.11	19.48	17.47	18.89	17.86	19.24	19.62
	6H	17.92	19.25	18.33	19.61	20.00	18.09	19.41	18.50	19.78	20.17
	8H	18.12	19.39	18.54	19.78	20.18	18.30	19.57	18.73	19.96	20.36
	12H	18.21	19.43	18.64	19.81	20.24	18.41	19.63	18.84	20.01	20.44
4H	2H	15.32	16.75	15.72	17.09	17.47	15.39	16.82	15.78	17.16	17.54
	3H	17.49	18.69	17.90	19.09	19.49	17.58	18.79	17.99	19.18	19.58
	4H	18.39	19.48	18.82	19.89	20.32	18.51	19.60	18.94	20.01	20.44
	6H	19.12	20.07	19.57	20.51	20.97	19.27	20.23	19.72	20.67	21.12
	8H	19.37	20.26	19.83	20.70	21.17	19.55	20.44	20.01	20.89	21.35
	12H	19.52	20.33	20.00	20.80	21.27	19.73	20.54	20.21	21.01	21.48
8H	4H	18.76	19.66	19.22	20.10	20.56	18.87	19.76	19.32	20.20	20.67
	6H	19.63	20.38	20.12	20.87	21.34	19.77	20.52	20.26	21.01	21.48
	8H	19.96	20.64	20.47	21.14	21.63	20.14	20.81	20.65	21.32	21.80
	12H	20.21	20.80	20.71	21.29	21.85	20.42	21.01	20.92	21.50	22.06
12H	4H	18.81	19.62	19.29	20.10	20.56	18.91	19.72	19.39	20.20	20.66
	6H	19.71	20.39	20.22	20.89	21.38	19.85	20.52	20.35	21.03	21.51
	8H	20.11	20.71	20.62	21.20	21.76	20.28	20.88	20.79	21.37	21.92