

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: P973032

Luminaire Tested: 24CGRK-L3C3-UNV-MP4-LOW-4000K

Issue Date: 3/12/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973032  
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: 24CGRK-L3C3-UNV-MP4-LOW-4000K  
Description: 2x4 CGRK Backlit Panel Retrofit Kit at, LOW lumen, 4000K CCT settings  
Light Source: -  
Ballast/Driver: -

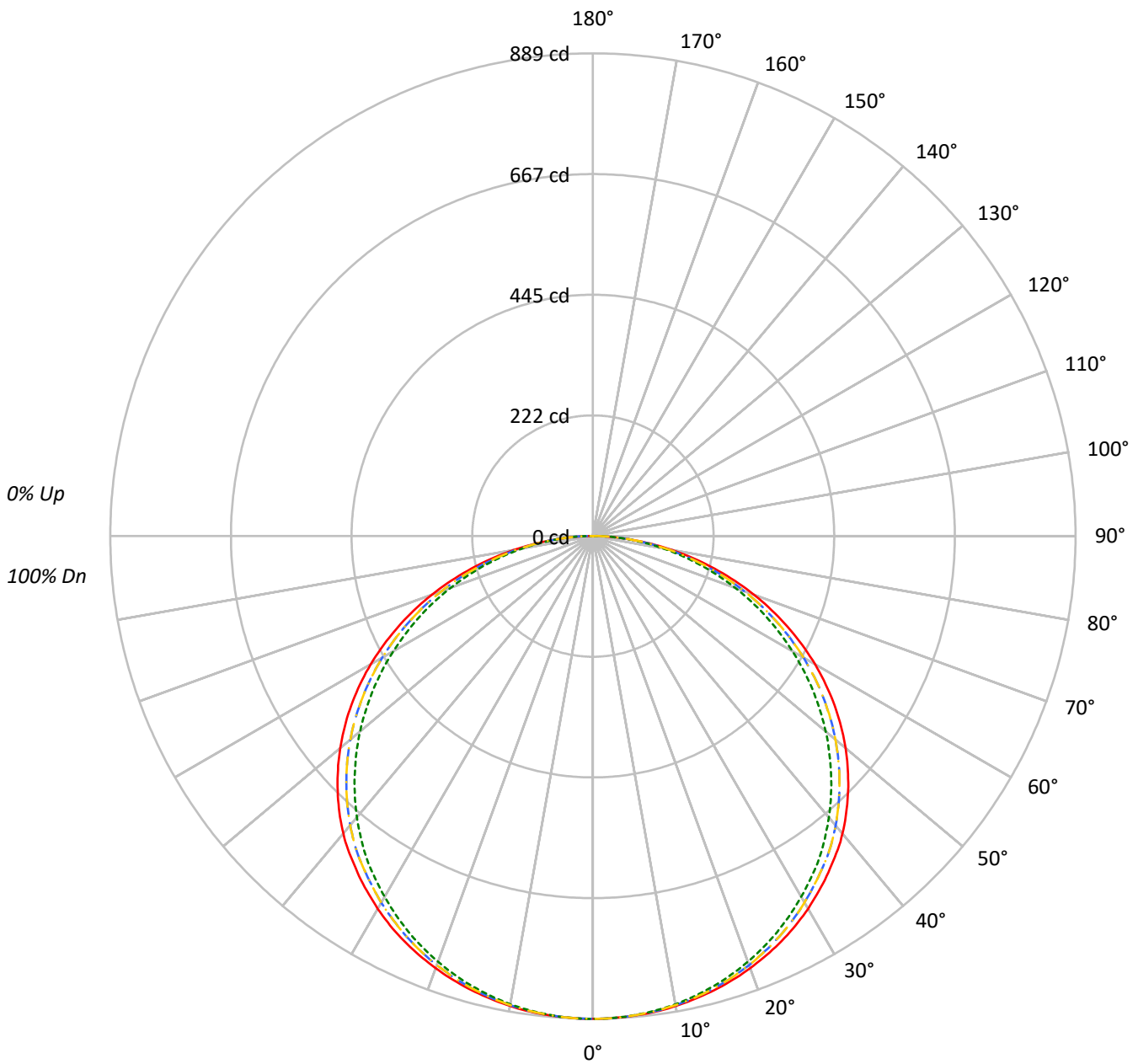
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2800.0 lumens  
Efficiency: N/A  
Efficacy: 142.9 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.28 / 1.43  
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 19.6  
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: P973032  
CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-LOW-4000K

### Luminous Intensity Polar Plot



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



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				
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	98	94	105	101	96	93	96	93	90	92	90	87	89	87	84	84	84	84	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	70	70	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	65	60	68	63	59	59	59	59	56
4	81	69	60	53	79	67	59	52	65	57	51	62	56	51	60	55	50	50	50	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	43	43	43	41
6	69	55	46	39	67	54	45	39	52	44	38	50	43	38	49	43	38	38	38	38	36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	33	33	33	31
8	59	45	36	31	57	45	36	30	43	36	30	42	35	30	41	34	30	30	30	30	28
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	27	27	27	25
10	52	38	30	25	50	38	30	25	37	29	25	36	29	24	35	29	24	24	24	24	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	1362	1362	1362	1362
5°	1363	1362	1363	1362
10°	1367	1361	1367	1361
15°	1373	1361	1373	1361
20°	1380	1360	1380	1360
25°	1391	1359	1391	1359
30°	1402	1357	1402	1357
35°	1414	1357	1414	1357
40°	1430	1352	1430	1352
45°	1440	1343	1440	1343
50°	1448	1334	1448	1334
55°	1451	1320	1451	1320
60°	1447	1301	1447	1301
65°	1435	1278	1435	1278
70°	1414	1249	1414	1249
75°	1373	1211	1373	1211
80°	1311	1161	1311	1161
85°	1186	1151	1186	1151

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 60°  
 Vertical Angle: 89°  
 Luminance: 1729 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.3	3.0
10°-20°	243.5	8.7
20°-30°	375.1	13.4
30°-40°	463.6	16.6
40°-50°	495.6	17.7
50°-60°	463.1	16.5
60°-70°	369.7	13.2
70°-80°	230.2	8.2
80°-90°	74.9	2.7
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°	702.9	25.1
0°-40°	1166.5	41.7
0°-60°	2125.1	75.9
0°-90°	2800.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2800.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	889	889	889	889	889	
5°	886	886	886	886	886	84
15°	866	858	866	858	866	245
25°	823	804	823	804	823	380
35°	756	726	756	726	756	474
45°	665	620	665	620	665	513
55°	543	494	543	494	543	485
65°	396	353	396	353	396	391
75°	232	205	232	205	232	245
85°	68	66	68	66	68	72
90°	0	0	0	0	0	5
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: P973032  
 CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-LOW-4000K

**CANDELA DISTRIBUTION (FULL):**

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1
1°	889.1	889.2	888.9	888.9	889.2	888.9	889.4	888.9	889.2	888.9	888.9
2°	888.8	888.9	888.4	888.6	888.9	888.4	888.8	888.4	888.9	888.6	888.4
3°	888.1	888.3	887.9	888.1	888.1	887.8	887.7	887.8	888.1	888.1	887.9
4°	887.5	887.3	887.0	887.1	887.2	886.8	887.1	886.8	887.2	887.1	887.0
5°	886.4	886.4	886.3	886.0	885.9	885.5	885.7	885.5	885.9	886.0	886.3
6°	885.5	885.1	884.9	884.7	884.5	884.2	884.2	884.2	884.5	884.7	884.9
7°	884.2	883.7	883.5	883.3	882.7	882.5	882.4	882.5	882.7	883.3	883.5
8°	882.7	882.3	881.9	881.6	880.9	880.3	880.3	880.3	880.9	881.6	881.9
9°	880.9	880.5	880.0	879.3	878.6	878.1	878.1	878.1	878.6	879.3	880.0
10°	878.9	878.5	878.0	877.1	876.3	875.7	875.4	875.7	876.3	877.1	878.0
11°	876.6	876.3	875.6	874.6	873.6	872.7	872.4	872.7	873.6	874.6	875.6
12°	874.1	873.7	873.1	871.9	870.5	869.7	869.2	869.7	870.5	871.9	873.1
13°	871.4	870.9	870.3	868.8	867.2	866.5	865.8	866.5	867.2	868.8	870.3
14°	868.4	868.0	867.3	865.6	863.8	862.8	862.0	862.8	863.8	865.6	867.3
15°	865.6	865.1	864.0	862.2	860.2	858.9	858.1	858.9	860.2	862.2	864.0
16°	862.5	861.4	860.5	858.5	856.0	854.7	854.0	854.7	856.0	858.5	860.5
17°	858.7	858.2	856.7	854.4	851.7	850.3	849.4	850.3	851.7	854.4	856.7
18°	855.1	854.3	852.8	850.1	847.2	845.7	844.5	845.7	847.2	850.1	852.8
19°	851.0	850.5	848.5	845.5	842.4	840.5	839.7	840.5	842.4	845.5	848.5
20°	846.9	846.0	844.0	840.8	837.5	835.4	834.1	835.4	837.5	840.8	844.0
21°	842.4	841.6	839.2	835.8	832.2	830.0	828.7	830.0	832.2	835.8	839.2
22°	837.8	836.8	834.3	830.5	826.8	824.2	822.8	824.2	826.8	830.5	834.3
23°	833.1	832.0	829.1	824.9	821.1	818.2	816.8	818.2	821.1	824.9	829.1
24°	828.1	826.8	823.5	819.2	815.1	812.0	810.6	812.0	815.1	819.2	823.5
25°	822.9	821.4	817.9	813.3	808.6	805.3	803.9	805.3	808.6	813.3	817.9
26°	817.3	815.7	812.0	806.9	802.4	798.5	797.1	798.5	802.4	806.9	812.0
27°	811.6	809.8	805.9	800.3	795.4	791.5	789.9	791.5	795.4	800.3	805.9
28°	805.4	803.8	799.4	793.6	788.2	784.0	782.5	784.0	788.2	793.6	799.4
29°	799.1	797.3	792.9	786.7	781.0	776.4	774.9	776.4	781.0	786.7	792.9
30°	792.6	790.7	786.0	779.5	773.4	768.6	767.2	768.6	773.4	779.5	786.0
31°	785.4	783.8	778.7	771.9	765.4	760.6	759.2	760.6	765.4	771.9	778.7
32°	778.5	776.6	771.3	764.1	757.5	752.3	750.9	752.3	757.5	764.1	771.3
33°	771.2	769.1	763.6	756.2	749.2	744.3	742.8	744.3	749.2	756.2	763.6
34°	763.9	761.5	755.7	748.2	741.4	736.6	734.8	736.6	741.4	748.2	755.7
35°	756.1	753.6	748.1	740.5	733.5	728.3	726.0	728.3	733.5	740.5	748.1
36°	748.1	746.1	740.5	732.9	724.8	718.9	716.7	718.9	724.8	732.9	740.5
37°	740.4	738.7	732.8	724.1	715.4	709.2	706.9	709.2	715.4	724.1	732.8
38°	732.6	730.9	724.0	714.9	705.8	699.3	696.7	699.3	705.8	714.9	724.0
39°	724.4	721.8	714.8	705.1	695.8	689.1	686.5	689.1	695.8	705.1	714.8
40°	715.1	712.5	705.2	695.5	685.7	678.8	676.3	678.8	685.7	695.5	705.2
41°	705.8	702.8	695.6	685.4	675.1	668.3	665.5	668.3	675.1	685.4	695.6
42°	696.0	692.9	685.5	674.9	664.6	657.4	654.6	657.4	664.6	674.9	685.5
43°	685.8	682.9	675.1	664.4	653.6	646.4	643.3	646.4	653.6	664.4	675.1
44°	675.4	672.5	664.5	653.6	642.7	635.0	632.2	635.0	642.7	653.6	664.5



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CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-LOW-4000K

**CANDELA DISTRIBUTION (continued):**

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	664.8	661.8	653.7	642.3	631.3	623.6	620.2	623.6	631.3	642.3	653.7
46°	654.0	650.9	642.6	631.0	619.9	611.8	608.7	611.8	619.9	631.0	642.6
47°	642.5	639.5	631.0	619.3	608.0	599.9	596.7	599.9	608.0	619.3	631.0
48°	631.4	628.2	619.3	607.6	596.1	587.7	584.6	587.7	596.1	607.6	619.3
49°	619.6	616.3	607.3	595.4	583.8	575.4	572.5	575.4	583.8	595.4	607.3
50°	607.6	604.2	595.3	583.1	571.4	563.0	559.9	563.0	571.4	583.1	595.3
51°	595.2	591.9	582.8	570.5	558.7	550.2	547.0	550.2	558.7	570.5	582.8
52°	582.6	579.3	570.1	557.7	545.9	537.3	534.0	537.3	545.9	557.7	570.1
53°	569.9	566.5	557.1	544.7	532.8	524.1	520.8	524.1	532.8	544.7	557.1
54°	556.7	553.3	543.9	531.4	519.4	510.7	507.4	510.7	519.4	531.4	543.9
55°	543.3	539.8	530.5	518.0	506.0	497.3	494.3	497.3	506.0	518.0	530.5
56°	529.6	526.3	516.8	504.4	492.4	483.6	480.7	483.6	492.4	504.4	516.8
57°	515.7	512.3	502.9	490.5	478.5	469.9	466.8	469.9	478.5	490.5	502.9
58°	501.5	498.1	488.8	476.4	464.6	456.0	453.1	456.0	464.6	476.4	488.8
59°	487.1	483.5	474.4	462.2	450.3	441.9	438.9	441.9	450.3	462.2	474.4
60°	472.5	469.0	460.0	447.9	436.0	427.7	424.6	427.7	436.0	447.9	460.0
61°	457.5	454.3	445.2	433.3	421.6	413.3	410.3	413.3	421.6	433.3	445.2
62°	442.3	439.2	430.3	418.4	407.1	398.9	396.0	398.9	407.1	418.4	430.3
63°	426.8	423.8	415.2	403.6	392.2	384.3	381.5	384.3	392.2	403.6	415.2
64°	411.4	408.3	399.9	388.5	377.4	369.7	366.9	369.7	377.4	388.5	399.9
65°	395.9	392.6	384.5	373.3	363.5	355.4	352.7	355.4	363.5	373.3	384.5
66°	379.9	376.7	368.8	358.0	348.5	341.1	338.4	341.1	348.5	358.0	368.8
67°	364.4	361.0	353.5	343.2	333.5	326.3	323.6	326.3	333.5	343.2	353.5
68°	348.3	345.2	337.9	328.1	318.1	311.3	308.8	311.3	318.1	328.1	337.9
69°	332.2	329.5	322.2	312.6	302.9	296.4	293.8	296.4	302.9	312.6	322.2
70°	315.7	313.0	306.0	296.8	287.7	281.3	278.9	281.3	287.7	296.8	306.0
71°	299.1	296.6	289.9	281.1	272.3	266.2	263.9	266.2	272.3	281.1	289.9
72°	282.4	280.1	273.7	265.3	257.0	251.3	248.9	251.3	257.0	265.3	273.7
73°	265.5	263.4	257.4	249.4	241.6	236.2	234.1	236.2	241.6	249.4	257.4
74°	248.8	246.8	241.2	233.8	226.3	221.2	219.3	221.2	226.3	233.8	241.2
75°	232.0	230.1	224.9	218.0	211.0	206.3	204.6	206.3	211.0	218.0	224.9
76°	215.1	213.3	208.6	202.1	195.8	191.4	189.7	191.4	195.8	202.1	208.6
77°	198.3	196.8	192.4	186.5	180.7	176.6	175.0	176.6	180.7	186.5	192.4
78°	181.6	180.2	176.3	170.9	165.6	161.8	160.4	161.8	165.6	170.9	176.3
79°	165.2	163.8	160.2	155.4	150.6	147.2	145.9	147.2	150.6	155.4	160.2
80°	148.6	147.4	144.3	140.0	135.7	132.9	131.6	132.9	135.7	140.0	144.3
81°	131.9	131.1	128.6	124.8	121.2	118.8	117.8	118.8	121.2	124.8	128.6
82°	115.5	114.9	112.9	109.8	106.9	105.1	104.2	105.1	106.9	109.8	112.9
83°	99.2	98.8	97.5	95.3	93.1	91.7	91.1	91.7	93.1	95.3	97.5
84°	83.3	83.0	82.2	81.1	79.5	78.6	78.1	78.6	79.5	81.1	82.2
85°	67.5	67.4	67.2	67.0	66.5	65.8	65.5	65.8	66.5	67.0	67.2
86°	52.7	52.7	53.3	53.9	53.9	53.4	53.1	53.4	53.9	53.9	53.3
87°	38.4	38.7	40.2	41.3	41.7	41.2	40.8	41.2	41.7	41.3	40.2
88°	25.9	26.7	28.3	29.6	30.2	29.9	29.8	29.9	30.2	29.6	28.3
89°	15.2	16.2	17.6	18.8	19.7	19.7	19.2	19.7	19.7	18.8	17.6



TEST NUMBER: P973032  
 CATALOG NUMBER: 24CGRK-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: P973032  
 CATALOG NUMBER: 24CGRK-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: P973032  
CATALOG NUMBER: 24CGRK-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: P973032

CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-LOW-4000K

**CANDELA DISTRIBUTION (continued):**

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1
1°	889.2	889.1	889.2	888.9	888.9	889.2	888.9	889.4	888.9	889.2	888.9
2°	888.9	888.8	888.9	888.4	888.6	888.9	888.4	888.8	888.4	888.9	888.6
3°	888.3	888.1	888.3	887.9	888.1	888.1	887.8	887.7	887.8	888.1	888.1
4°	887.3	887.5	887.3	887.0	887.1	887.2	886.8	887.1	886.8	887.2	887.1
5°	886.4	886.4	886.4	886.3	886.0	885.9	885.5	885.7	885.5	885.9	886.0
6°	885.1	885.5	885.1	884.9	884.7	884.5	884.2	884.2	884.2	884.5	884.7
7°	883.7	884.2	883.7	883.5	883.3	882.7	882.5	882.4	882.5	882.7	883.3
8°	882.3	882.7	882.3	881.9	881.6	880.9	880.3	880.3	880.3	880.9	881.6
9°	880.5	880.9	880.5	880.0	879.3	878.6	878.1	878.1	878.1	878.6	879.3
10°	878.5	878.9	878.5	878.0	877.1	876.3	875.7	875.4	875.7	876.3	877.1
11°	876.3	876.6	876.3	875.6	874.6	873.6	872.7	872.4	872.7	873.6	874.6
12°	873.7	874.1	873.7	873.1	871.9	870.5	869.7	869.2	869.7	870.5	871.9
13°	870.9	871.4	870.9	870.3	868.8	867.2	866.5	865.8	866.5	867.2	868.8
14°	868.0	868.4	868.0	867.3	865.6	863.8	862.8	862.0	862.8	863.8	865.6
15°	865.1	865.6	865.1	864.0	862.2	860.2	858.9	858.1	858.9	860.2	862.2
16°	861.4	862.5	861.4	860.5	858.5	856.0	854.7	854.0	854.7	856.0	858.5
17°	858.2	858.7	858.2	856.7	854.4	851.7	850.3	849.4	850.3	851.7	854.4
18°	854.3	855.1	854.3	852.8	850.1	847.2	845.7	844.5	845.7	847.2	850.1
19°	850.5	851.0	850.5	848.5	845.5	842.4	840.5	839.7	840.5	842.4	845.5
20°	846.0	846.9	846.0	844.0	840.8	837.5	835.4	834.1	835.4	837.5	840.8
21°	841.6	842.4	841.6	839.2	835.8	832.2	830.0	828.7	830.0	832.2	835.8
22°	836.8	837.8	836.8	834.3	830.5	826.8	824.2	822.8	824.2	826.8	830.5
23°	832.0	833.1	832.0	829.1	824.9	821.1	818.2	816.8	818.2	821.1	824.9
24°	826.8	828.1	826.8	823.5	819.2	815.1	812.0	810.6	812.0	815.1	819.2
25°	821.4	822.9	821.4	817.9	813.3	808.6	805.3	803.9	805.3	808.6	813.3
26°	815.7	817.3	815.7	812.0	806.9	802.4	798.5	797.1	798.5	802.4	806.9
27°	809.8	811.6	809.8	805.9	800.3	795.4	791.5	789.9	791.5	795.4	800.3
28°	803.8	805.4	803.8	799.4	793.6	788.2	784.0	782.5	784.0	788.2	793.6
29°	797.3	799.1	797.3	792.9	786.7	781.0	776.4	774.9	776.4	781.0	786.7
30°	790.7	792.6	790.7	786.0	779.5	773.4	768.6	767.2	768.6	773.4	779.5
31°	783.8	785.4	783.8	778.7	771.9	765.4	760.6	759.2	760.6	765.4	771.9
32°	776.6	778.5	776.6	771.3	764.1	757.5	752.3	750.9	752.3	757.5	764.1
33°	769.1	771.2	769.1	763.6	756.2	749.2	744.3	742.8	744.3	749.2	756.2
34°	761.5	763.9	761.5	755.7	748.2	741.4	736.6	734.8	736.6	741.4	748.2
35°	753.6	756.1	753.6	748.1	740.5	733.5	728.3	726.0	728.3	733.5	740.5
36°	746.1	748.1	746.1	740.5	732.9	724.8	718.9	716.7	718.9	724.8	732.9
37°	738.7	740.4	738.7	732.8	724.1	715.4	709.2	706.9	709.2	715.4	724.1
38°	730.9	732.6	730.9	724.0	714.9	705.8	699.3	696.7	699.3	705.8	714.9
39°	721.8	724.4	721.8	714.8	705.1	695.8	689.1	686.5	689.1	695.8	705.1
40°	712.5	715.1	712.5	705.2	695.5	685.7	678.8	676.3	678.8	685.7	695.5
41°	702.8	705.8	702.8	695.6	685.4	675.1	668.3	665.5	668.3	675.1	685.4
42°	692.9	696.0	692.9	685.5	674.9	664.6	657.4	654.6	657.4	664.6	674.9
43°	682.9	685.8	682.9	675.1	664.4	653.6	646.4	643.3	646.4	653.6	664.4
44°	672.5	675.4	672.5	664.5	653.6	642.7	635.0	632.2	635.0	642.7	653.6



TEST NUMBER: P973032

CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-LOW-4000K

**CANDELA DISTRIBUTION (continued):**

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	661.8	664.8	661.8	653.7	642.3	631.3	623.6	620.2	623.6	631.3	642.3
46°	650.9	654.0	650.9	642.6	631.0	619.9	611.8	608.7	611.8	619.9	631.0
47°	639.5	642.5	639.5	631.0	619.3	608.0	599.9	596.7	599.9	608.0	619.3
48°	628.2	631.4	628.2	619.3	607.6	596.1	587.7	584.6	587.7	596.1	607.6
49°	616.3	619.6	616.3	607.3	595.4	583.8	575.4	572.5	575.4	583.8	595.4
50°	604.2	607.6	604.2	595.3	583.1	571.4	563.0	559.9	563.0	571.4	583.1
51°	591.9	595.2	591.9	582.8	570.5	558.7	550.2	547.0	550.2	558.7	570.5
52°	579.3	582.6	579.3	570.1	557.7	545.9	537.3	534.0	537.3	545.9	557.7
53°	566.5	569.9	566.5	557.1	544.7	532.8	524.1	520.8	524.1	532.8	544.7
54°	553.3	556.7	553.3	543.9	531.4	519.4	510.7	507.4	510.7	519.4	531.4
55°	539.8	543.3	539.8	530.5	518.0	506.0	497.3	494.3	497.3	506.0	518.0
56°	526.3	529.6	526.3	516.8	504.4	492.4	483.6	480.7	483.6	492.4	504.4
57°	512.3	515.7	512.3	502.9	490.5	478.5	469.9	466.8	469.9	478.5	490.5
58°	498.1	501.5	498.1	488.8	476.4	464.6	456.0	453.1	456.0	464.6	476.4
59°	483.5	487.1	483.5	474.4	462.2	450.3	441.9	438.9	441.9	450.3	462.2
60°	469.0	472.5	469.0	460.0	447.9	436.0	427.7	424.6	427.7	436.0	447.9
61°	454.3	457.5	454.3	445.2	433.3	421.6	413.3	410.3	413.3	421.6	433.3
62°	439.2	442.3	439.2	430.3	418.4	407.1	398.9	396.0	398.9	407.1	418.4
63°	423.8	426.8	423.8	415.2	403.6	392.2	384.3	381.5	384.3	392.2	403.6
64°	408.3	411.4	408.3	399.9	388.5	377.4	369.7	366.9	369.7	377.4	388.5
65°	392.6	395.9	392.6	384.5	373.3	363.5	355.4	352.7	355.4	363.5	373.3
66°	376.7	379.9	376.7	368.8	358.0	348.5	341.1	338.4	341.1	348.5	358.0
67°	361.0	364.4	361.0	353.5	343.2	333.5	326.3	323.6	326.3	333.5	343.2
68°	345.2	348.3	345.2	337.9	328.1	318.1	311.3	308.8	311.3	318.1	328.1
69°	329.5	332.2	329.5	322.2	312.6	302.9	296.4	293.8	296.4	302.9	312.6
70°	313.0	315.7	313.0	306.0	296.8	287.7	281.3	278.9	281.3	287.7	296.8
71°	296.6	299.1	296.6	289.9	281.1	272.3	266.2	263.9	266.2	272.3	281.1
72°	280.1	282.4	280.1	273.7	265.3	257.0	251.3	248.9	251.3	257.0	265.3
73°	263.4	265.5	263.4	257.4	249.4	241.6	236.2	234.1	236.2	241.6	249.4
74°	246.8	248.8	246.8	241.2	233.8	226.3	221.2	219.3	221.2	226.3	233.8
75°	230.1	232.0	230.1	224.9	218.0	211.0	206.3	204.6	206.3	211.0	218.0
76°	213.3	215.1	213.3	208.6	202.1	195.8	191.4	189.7	191.4	195.8	202.1
77°	196.8	198.3	196.8	192.4	186.5	180.7	176.6	175.0	176.6	180.7	186.5
78°	180.2	181.6	180.2	176.3	170.9	165.6	161.8	160.4	161.8	165.6	170.9
79°	163.8	165.2	163.8	160.2	155.4	150.6	147.2	145.9	147.2	150.6	155.4
80°	147.4	148.6	147.4	144.3	140.0	135.7	132.9	131.6	132.9	135.7	140.0
81°	131.1	131.9	131.1	128.6	124.8	121.2	118.8	117.8	118.8	121.2	124.8
82°	114.9	115.5	114.9	112.9	109.8	106.9	105.1	104.2	105.1	106.9	109.8
83°	98.8	99.2	98.8	97.5	95.3	93.1	91.7	91.1	91.7	93.1	95.3
84°	83.0	83.3	83.0	82.2	81.1	79.5	78.6	78.1	78.6	79.5	81.1
85°	67.4	67.5	67.4	67.2	67.0	66.5	65.8	65.5	65.8	66.5	67.0
86°	52.7	52.7	52.7	53.3	53.9	53.9	53.4	53.1	53.4	53.9	53.9
87°	38.7	38.4	38.7	40.2	41.3	41.7	41.2	40.8	41.2	41.7	41.3
88°	26.7	25.9	26.7	28.3	29.6	30.2	29.9	29.8	29.9	30.2	29.6
89°	16.2	15.2	16.2	17.6	18.8	19.7	19.7	19.2	19.7	19.7	18.8



TEST NUMBER: P973032  
 CATALOG NUMBER: 24CGRK-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: P973032  
 CATALOG NUMBER: 24CGRK-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: P973032  
CATALOG NUMBER: 24CGRK-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: P973032

CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-LOW-4000K

**CANDELA DISTRIBUTION (continued):**

	330°	345°	360°
0°	889.1	889.1	889.1
1°	888.9	889.2	889.1
2°	888.4	888.9	888.8
3°	887.9	888.3	888.1
4°	887.0	887.3	887.5
5°	886.3	886.4	886.4
6°	884.9	885.1	885.5
7°	883.5	883.7	884.2
8°	881.9	882.3	882.7
9°	880.0	880.5	880.9
10°	878.0	878.5	878.9
11°	875.6	876.3	876.6
12°	873.1	873.7	874.1
13°	870.3	870.9	871.4
14°	867.3	868.0	868.4
15°	864.0	865.1	865.6
16°	860.5	861.4	862.5
17°	856.7	858.2	858.7
18°	852.8	854.3	855.1
19°	848.5	850.5	851.0
20°	844.0	846.0	846.9
21°	839.2	841.6	842.4
22°	834.3	836.8	837.8
23°	829.1	832.0	833.1
24°	823.5	826.8	828.1
25°	817.9	821.4	822.9
26°	812.0	815.7	817.3
27°	805.9	809.8	811.6
28°	799.4	803.8	805.4
29°	792.9	797.3	799.1
30°	786.0	790.7	792.6
31°	778.7	783.8	785.4
32°	771.3	776.6	778.5
33°	763.6	769.1	771.2
34°	755.7	761.5	763.9
35°	748.1	753.6	756.1
36°	740.5	746.1	748.1
37°	732.8	738.7	740.4
38°	724.0	730.9	732.6
39°	714.8	721.8	724.4
40°	705.2	712.5	715.1
41°	695.6	702.8	705.8
42°	685.5	692.9	696.0
43°	675.1	682.9	685.8
44°	664.5	672.5	675.4





TEST NUMBER: P973032

CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-LOW-4000K

**CANDELA DISTRIBUTION (continued):**

	330°	345°	360°
45°	653.7	661.8	664.8
46°	642.6	650.9	654.0
47°	631.0	639.5	642.5
48°	619.3	628.2	631.4
49°	607.3	616.3	619.6
50°	595.3	604.2	607.6
51°	582.8	591.9	595.2
52°	570.1	579.3	582.6
53°	557.1	566.5	569.9
54°	543.9	553.3	556.7
55°	530.5	539.8	543.3
56°	516.8	526.3	529.6
57°	502.9	512.3	515.7
58°	488.8	498.1	501.5
59°	474.4	483.5	487.1
60°	460.0	469.0	472.5
61°	445.2	454.3	457.5
62°	430.3	439.2	442.3
63°	415.2	423.8	426.8
64°	399.9	408.3	411.4
65°	384.5	392.6	395.9
66°	368.8	376.7	379.9
67°	353.5	361.0	364.4
68°	337.9	345.2	348.3
69°	322.2	329.5	332.2
70°	306.0	313.0	315.7
71°	289.9	296.6	299.1
72°	273.7	280.1	282.4
73°	257.4	263.4	265.5
74°	241.2	246.8	248.8
75°	224.9	230.1	232.0
76°	208.6	213.3	215.1
77°	192.4	196.8	198.3
78°	176.3	180.2	181.6
79°	160.2	163.8	165.2
80°	144.3	147.4	148.6
81°	128.6	131.1	131.9
82°	112.9	114.9	115.5
83°	97.5	98.8	99.2
84°	82.2	83.0	83.3
85°	67.2	67.4	67.5
86°	53.3	52.7	52.7
87°	40.2	38.7	38.4
88°	28.3	26.7	25.9
89°	17.6	16.2	15.2



TEST NUMBER: P973032  
CATALOG NUMBER: 24CGRK-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: P973032  
CATALOG NUMBER: 24CGRK-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: P973032  
CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-LOW-4000K

**CANDELA DISTRIBUTION (continued):**

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)