

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: P973034

Luminaire Tested: 24CGRK-L3C3-UNV-MP4-MID-3500K

Issue Date: 3/12/2025

**Test Information**

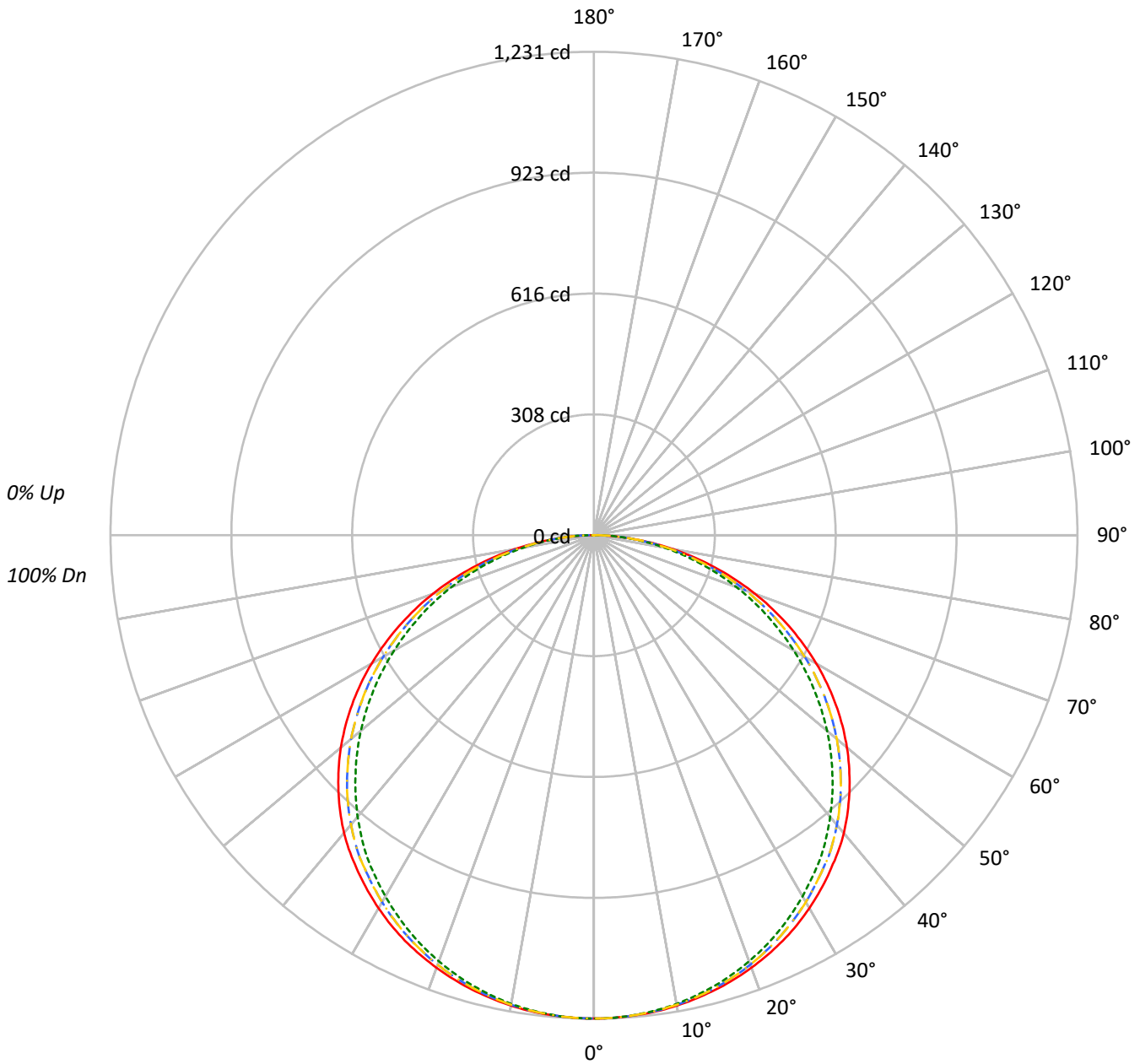
Test Method: LM-79-2019  
Report Number: P973034  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( DLF2412105-2a)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/12/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 24CGRK-L3C3-UNV-MP4-MID-3500K  
Description: 2x4 CGRK Backlit Panel Retrofit Kit at, MID lumen, 3500K CCT settings  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3875.0 lumens  
Efficiency: N/A  
Efficacy: 146.8 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): 26.4  
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: P973034  
CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-MID-3500K

### Luminous Intensity Polar Plot



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



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

RF	20				20				20				20				20				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	108	103	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°	1885	1885	1885	1885
5°	1886	1884	1886	1884
10°	1892	1884	1892	1884
15°	1900	1883	1900	1883
20°	1910	1881	1910	1881
25°	1925	1880	1925	1880
30°	1940	1878	1940	1878
35°	1956	1879	1956	1879
40°	1979	1871	1979	1871
45°	1993	1859	1993	1859
50°	2004	1846	2004	1846
55°	2008	1826	2008	1826
60°	2003	1800	2003	1800
65°	1986	1769	1986	1769
70°	1957	1729	1957	1729
75°	1900	1675	1900	1675
80°	1813	1606	1813	1606
85°	1643	1592	1643	1592

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 60°  
 Vertical Angle: 89°  
 Luminance: 2396 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.7	3.0
10°-20°	337.0	8.7
20°-30°	519.1	13.4
30°-40°	641.6	16.6
40°-50°	685.8	17.7
50°-60°	640.9	16.5
60°-70°	511.7	13.2
70°-80°	318.6	8.2
80°-90°	103.7	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°	972.7	25.1
0°-40°	1614.3	41.7
0°-60°	2941.0	75.9
0°-90°	3875.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3875.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1230	1230	1230	1230	1230	
5°	1227	1226	1227	1226	1227	117
15°	1198	1188	1198	1188	1198	339
25°	1139	1112	1139	1112	1139	525
35°	1046	1005	1046	1005	1046	655
45°	920	858	920	858	920	710
55°	752	684	752	684	752	671
65°	548	488	548	488	548	542
75°	321	283	321	283	321	339
85°	94	91	94	91	94	100
90°	0	0	0	0	0	7
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	1230.4	1230.4	1230.4	1230.4	1230.4	1230.4	1230.4	1230.4	1230.4	1230.4	1230.4
1°	1230.4	1230.5	1230.2	1230.2	1230.6	1230.2	1230.8	1230.2	1230.6	1230.2	1230.2
2°	1230.0	1230.1	1229.5	1229.7	1230.1	1229.4	1230.1	1229.4	1230.1	1229.7	1229.5
3°	1229.1	1229.4	1228.8	1229.0	1229.1	1228.6	1228.6	1228.6	1229.1	1229.0	1228.8
4°	1228.2	1228.0	1227.6	1227.7	1227.8	1227.3	1227.7	1227.3	1227.8	1227.7	1227.6
5°	1226.8	1226.8	1226.5	1226.2	1226.1	1225.5	1225.7	1225.5	1226.1	1226.2	1226.5
6°	1225.4	1224.9	1224.7	1224.4	1224.1	1223.7	1223.7	1223.7	1224.1	1224.4	1224.7
7°	1223.7	1222.9	1222.7	1222.4	1221.5	1221.3	1221.2	1221.3	1221.5	1222.4	1222.7
8°	1221.5	1221.0	1220.4	1220.1	1219.0	1218.3	1218.3	1218.3	1219.0	1220.1	1220.4
9°	1219.0	1218.6	1217.8	1216.9	1215.9	1215.3	1215.3	1215.3	1215.9	1216.9	1217.8
10°	1216.3	1215.8	1215.1	1213.8	1212.7	1211.9	1211.5	1211.9	1212.7	1213.8	1215.1
11°	1213.1	1212.8	1211.7	1210.4	1209.0	1207.8	1207.3	1207.8	1209.0	1210.4	1211.7
12°	1209.7	1209.1	1208.3	1206.6	1204.8	1203.6	1203.0	1203.6	1204.8	1206.6	1208.3
13°	1206.0	1205.3	1204.4	1202.3	1200.1	1199.1	1198.2	1199.1	1200.1	1202.3	1204.4
14°	1201.9	1201.2	1200.3	1197.9	1195.5	1194.1	1193.0	1194.1	1195.5	1197.9	1200.3
15°	1198.0	1197.2	1195.7	1193.3	1190.5	1188.6	1187.5	1188.6	1190.5	1193.3	1195.7
16°	1193.6	1192.2	1190.9	1188.0	1184.7	1182.8	1181.9	1182.8	1184.7	1188.0	1190.9
17°	1188.4	1187.7	1185.5	1182.4	1178.8	1176.7	1175.6	1176.7	1178.8	1182.4	1185.5
18°	1183.4	1182.3	1180.2	1176.4	1172.4	1170.3	1168.8	1170.3	1172.4	1176.4	1180.2
19°	1177.7	1177.0	1174.2	1170.2	1165.9	1163.2	1162.0	1163.2	1165.9	1170.2	1174.2
20°	1172.1	1170.9	1168.0	1163.6	1159.0	1156.2	1154.3	1156.2	1159.0	1163.6	1168.0
21°	1165.9	1164.7	1161.3	1156.7	1151.7	1148.6	1146.8	1148.6	1151.7	1156.7	1161.3
22°	1159.5	1158.1	1154.6	1149.3	1144.2	1140.6	1138.7	1140.6	1144.2	1149.3	1154.6
23°	1152.9	1151.4	1147.4	1141.6	1136.3	1132.3	1130.4	1132.3	1136.3	1141.6	1147.4
24°	1146.0	1144.2	1139.6	1133.8	1128.0	1123.8	1121.8	1123.8	1128.0	1133.8	1139.6
25°	1138.9	1136.8	1132.0	1125.5	1119.0	1114.5	1112.5	1114.5	1119.0	1125.5	1132.0
26°	1131.1	1128.9	1123.8	1116.7	1110.4	1105.0	1103.2	1105.0	1110.4	1116.7	1123.8
27°	1123.2	1120.7	1115.3	1107.6	1100.8	1095.4	1093.2	1095.4	1100.8	1107.6	1115.3
28°	1114.6	1112.4	1106.4	1098.3	1090.8	1085.1	1082.9	1085.1	1090.8	1098.3	1106.4
29°	1105.9	1103.4	1097.3	1088.7	1080.8	1074.5	1072.4	1074.5	1080.8	1088.7	1097.3
30°	1096.8	1094.3	1087.7	1078.7	1070.4	1063.7	1061.8	1063.7	1070.4	1078.7	1087.7
31°	1087.0	1084.7	1077.7	1068.2	1059.3	1052.6	1050.6	1052.6	1059.3	1068.2	1077.7
32°	1077.4	1074.8	1067.4	1057.4	1048.4	1041.2	1039.1	1041.2	1048.4	1057.4	1067.4
33°	1067.3	1064.4	1056.8	1046.5	1036.9	1030.1	1028.1	1030.1	1036.9	1046.5	1056.8
34°	1057.2	1053.8	1045.8	1035.5	1026.0	1019.4	1016.9	1019.4	1026.0	1035.5	1045.8
35°	1046.3	1043.0	1035.3	1024.8	1015.1	1007.9	1004.8	1007.9	1015.1	1024.8	1035.3
36°	1035.3	1032.6	1024.8	1014.3	1003.1	994.9	991.8	994.9	1003.1	1014.3	1024.8
37°	1024.7	1022.3	1014.1	1002.1	990.1	981.5	978.2	981.5	990.1	1002.1	1014.1
38°	1013.9	1011.6	1002.0	989.3	976.8	967.8	964.2	967.8	976.8	989.3	1002.0
39°	1002.5	998.9	989.2	975.8	962.9	953.6	950.0	953.6	962.9	975.8	989.2
40°	989.7	986.0	976.0	962.5	949.0	939.4	935.9	939.4	949.0	962.5	976.0
41°	976.8	972.6	962.6	948.6	934.4	924.9	921.0	924.9	934.4	948.6	962.6
42°	963.2	958.9	948.7	934.0	919.8	909.8	905.9	909.8	919.8	934.0	948.7
43°	949.1	945.0	934.4	919.5	904.6	894.5	890.3	894.5	904.6	919.5	934.4
44°	934.7	930.8	919.7	904.6	889.5	878.8	874.9	878.8	889.5	904.6	919.7



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**CANDELA DISTRIBUTION (continued):**

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	920.0	915.9	904.7	888.9	873.7	863.0	858.3	863.0	873.7	888.9	904.7
46°	905.1	900.9	889.3	873.2	857.8	846.7	842.4	846.7	857.8	873.2	889.3
47°	889.2	885.1	873.2	857.1	841.4	830.3	825.8	830.3	841.4	857.1	873.2
48°	873.8	869.4	857.1	840.8	825.0	813.3	809.1	813.3	825.0	840.8	857.1
49°	857.5	852.9	840.5	823.9	807.9	796.3	792.2	796.3	807.9	823.9	840.5
50°	840.9	836.2	823.8	807.0	790.8	779.1	774.9	779.1	790.8	807.0	823.8
51°	823.7	819.1	806.5	789.5	773.2	761.4	757.0	761.4	773.2	789.5	806.5
52°	806.3	801.8	789.0	771.8	755.5	743.6	739.0	743.6	755.5	771.8	789.0
53°	788.6	784.0	770.9	753.9	737.4	725.3	720.7	725.3	737.4	753.9	770.9
54°	770.5	765.7	752.8	735.4	718.9	706.7	702.3	706.7	718.9	735.4	752.8
55°	751.9	747.1	734.2	716.9	700.2	688.2	684.0	688.2	700.2	716.9	734.2
56°	732.9	728.3	715.2	698.1	681.4	669.2	665.2	669.2	681.4	698.1	715.2
57°	713.6	708.9	696.0	678.8	662.3	650.3	646.0	650.3	662.3	678.8	696.0
58°	694.0	689.4	676.5	659.3	643.0	631.0	627.1	631.0	643.0	659.3	676.5
59°	674.1	669.2	656.5	639.6	623.1	611.6	607.4	611.6	623.1	639.6	656.5
60°	653.9	649.0	636.6	619.9	603.4	591.9	587.6	591.9	603.4	619.9	636.6
61°	633.1	628.7	616.2	599.6	583.4	572.0	567.8	572.0	583.4	599.6	616.2
62°	612.1	607.9	595.5	579.0	563.4	552.1	548.0	552.1	563.4	579.0	595.5
63°	590.6	586.5	574.5	558.6	542.7	531.8	527.9	531.8	542.7	558.6	574.5
64°	569.4	565.1	553.5	537.6	522.3	511.6	507.8	511.6	522.3	537.6	553.5
65°	547.9	543.3	532.1	516.6	503.0	491.8	488.1	491.8	503.0	516.6	532.1
66°	525.7	521.4	510.3	495.4	482.3	472.1	468.3	472.1	482.3	495.4	510.3
67°	504.2	499.5	489.2	475.0	461.5	451.6	447.9	451.6	461.5	475.0	489.2
68°	482.0	477.7	467.7	454.1	440.3	430.9	427.4	430.9	440.3	454.1	467.7
69°	459.7	456.0	445.9	432.6	419.2	410.2	406.6	410.2	419.2	432.6	445.9
70°	436.9	433.2	423.5	410.7	398.1	389.4	386.0	389.4	398.1	410.7	423.5
71°	413.9	410.5	401.2	389.0	376.8	368.5	365.2	368.5	376.8	389.0	401.2
72°	390.8	387.6	378.8	367.2	355.7	347.8	344.5	347.8	355.7	367.2	378.8
73°	367.5	364.5	356.2	345.2	334.3	326.9	323.9	326.9	334.3	345.2	356.2
74°	344.4	341.6	333.8	323.5	313.2	306.1	303.5	306.1	313.2	323.5	333.8
75°	321.0	318.4	311.2	301.7	292.0	285.5	283.1	285.5	292.0	301.7	311.2
76°	297.7	295.3	288.7	279.8	271.0	264.8	262.5	264.8	271.0	279.8	288.7
77°	274.5	272.3	266.3	258.1	250.1	244.4	242.2	244.4	250.1	258.1	266.3
78°	251.4	249.4	244.0	236.5	229.1	223.9	222.0	223.9	229.1	236.5	244.0
79°	228.6	226.7	221.8	215.1	208.4	203.7	202.0	203.7	208.4	215.1	221.8
80°	205.6	204.0	199.7	193.8	187.8	184.0	182.1	184.0	187.8	193.8	199.7
81°	182.5	181.5	178.0	172.8	167.7	164.4	163.1	164.4	167.7	172.8	178.0
82°	159.8	159.0	156.3	152.0	147.9	145.4	144.2	145.4	147.9	152.0	156.3
83°	137.2	136.7	135.0	131.9	128.8	126.9	126.1	126.9	128.8	131.9	135.0
84°	115.3	114.8	113.7	112.2	110.1	108.8	108.0	108.8	110.1	112.2	113.7
85°	93.5	93.3	93.0	92.8	92.0	91.1	90.6	91.1	92.0	92.8	93.0
86°	72.9	72.9	73.7	74.6	74.6	73.9	73.5	73.9	74.6	74.6	73.7
87°	53.1	53.5	55.7	57.2	57.7	57.0	56.4	57.0	57.7	57.2	55.7
88°	35.9	37.0	39.2	41.0	41.8	41.3	41.2	41.3	41.8	41.0	39.2
89°	21.0	22.4	24.4	26.0	27.3	27.2	26.6	27.2	27.3	26.0	24.4



TEST NUMBER: P973034  
 CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-MID-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: P973034  
 CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-MID-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: P973034  
CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-MID-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: P973034  
 CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-MID-3500K

**CANDELA DISTRIBUTION (continued):**

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	1230.4	1230.4	1230.4	1230.4	1230.4	1230.4	1230.4	1230.4	1230.4	1230.4	1230.4
1°	1230.5	1230.4	1230.5	1230.2	1230.2	1230.6	1230.2	1230.8	1230.2	1230.6	1230.2
2°	1230.1	1230.0	1230.1	1229.5	1229.7	1230.1	1229.4	1230.1	1229.4	1230.1	1229.7
3°	1229.4	1229.1	1229.4	1228.8	1229.0	1229.1	1228.6	1228.6	1228.6	1229.1	1229.0
4°	1228.0	1228.2	1228.0	1227.6	1227.7	1227.8	1227.3	1227.7	1227.3	1227.8	1227.7
5°	1226.8	1226.8	1226.8	1226.5	1226.2	1226.1	1225.5	1225.7	1225.5	1226.1	1226.2
6°	1224.9	1225.4	1224.9	1224.7	1224.4	1224.1	1223.7	1223.7	1223.7	1224.1	1224.4
7°	1222.9	1223.7	1222.9	1222.7	1222.4	1221.5	1221.3	1221.2	1221.3	1221.5	1222.4
8°	1221.0	1221.5	1221.0	1220.4	1220.1	1219.0	1218.3	1218.3	1218.3	1219.0	1220.1
9°	1218.6	1219.0	1218.6	1217.8	1216.9	1215.9	1215.3	1215.3	1215.3	1215.9	1216.9
10°	1215.8	1216.3	1215.8	1215.1	1213.8	1212.7	1211.9	1211.5	1211.9	1212.7	1213.8
11°	1212.8	1213.1	1212.8	1211.7	1210.4	1209.0	1207.8	1207.3	1207.8	1209.0	1210.4
12°	1209.1	1209.7	1209.1	1208.3	1206.6	1204.8	1203.6	1203.0	1203.6	1204.8	1206.6
13°	1205.3	1206.0	1205.3	1204.4	1202.3	1200.1	1199.1	1198.2	1199.1	1200.1	1202.3
14°	1201.2	1201.9	1201.2	1200.3	1197.9	1195.5	1194.1	1193.0	1194.1	1195.5	1197.9
15°	1197.2	1198.0	1197.2	1195.7	1193.3	1190.5	1188.6	1187.5	1188.6	1190.5	1193.3
16°	1192.2	1193.6	1192.2	1190.9	1188.0	1184.7	1182.8	1181.9	1182.8	1184.7	1188.0
17°	1187.7	1188.4	1187.7	1185.5	1182.4	1178.8	1176.7	1175.6	1176.7	1178.8	1182.4
18°	1182.3	1183.4	1182.3	1180.2	1176.4	1172.4	1170.3	1168.8	1170.3	1172.4	1176.4
19°	1177.0	1177.7	1177.0	1174.2	1170.2	1165.9	1163.2	1162.0	1163.2	1165.9	1170.2
20°	1170.9	1172.1	1170.9	1168.0	1163.6	1159.0	1156.2	1154.3	1156.2	1159.0	1163.6
21°	1164.7	1165.9	1164.7	1161.3	1156.7	1151.7	1148.6	1146.8	1148.6	1151.7	1156.7
22°	1158.1	1159.5	1158.1	1154.6	1149.3	1144.2	1140.6	1138.7	1140.6	1144.2	1149.3
23°	1151.4	1152.9	1151.4	1147.4	1141.6	1136.3	1132.3	1130.4	1132.3	1136.3	1141.6
24°	1144.2	1146.0	1144.2	1139.6	1133.8	1128.0	1123.8	1121.8	1123.8	1128.0	1133.8
25°	1136.8	1138.9	1136.8	1132.0	1125.5	1119.0	1114.5	1112.5	1114.5	1119.0	1125.5
26°	1128.9	1131.1	1128.9	1123.8	1116.7	1110.4	1105.0	1103.2	1105.0	1110.4	1116.7
27°	1120.7	1123.2	1120.7	1115.3	1107.6	1100.8	1095.4	1093.2	1095.4	1100.8	1107.6
28°	1112.4	1114.6	1112.4	1106.4	1098.3	1090.8	1085.1	1082.9	1085.1	1090.8	1098.3
29°	1103.4	1105.9	1103.4	1097.3	1088.7	1080.8	1074.5	1072.4	1074.5	1080.8	1088.7
30°	1094.3	1096.8	1094.3	1087.7	1078.7	1070.4	1063.7	1061.8	1063.7	1070.4	1078.7
31°	1084.7	1087.0	1084.7	1077.7	1068.2	1059.3	1052.6	1050.6	1052.6	1059.3	1068.2
32°	1074.8	1077.4	1074.8	1067.4	1057.4	1048.4	1041.2	1039.1	1041.2	1048.4	1057.4
33°	1064.4	1067.3	1064.4	1056.8	1046.5	1036.9	1030.1	1028.1	1030.1	1036.9	1046.5
34°	1053.8	1057.2	1053.8	1045.8	1035.5	1026.0	1019.4	1016.9	1019.4	1026.0	1035.5
35°	1043.0	1046.3	1043.0	1035.3	1024.8	1015.1	1007.9	1004.8	1007.9	1015.1	1024.8
36°	1032.6	1035.3	1032.6	1024.8	1014.3	1003.1	994.9	991.8	994.9	1003.1	1014.3
37°	1022.3	1024.7	1022.3	1014.1	1002.1	990.1	981.5	978.2	981.5	990.1	1002.1
38°	1011.6	1013.9	1011.6	1002.0	989.3	976.8	967.8	964.2	967.8	976.8	989.3
39°	998.9	1002.5	998.9	989.2	975.8	962.9	953.6	950.0	953.6	962.9	975.8
40°	986.0	989.7	986.0	976.0	962.5	949.0	939.4	935.9	939.4	949.0	962.5
41°	972.6	976.8	972.6	962.6	948.6	934.4	924.9	921.0	924.9	934.4	948.6
42°	958.9	963.2	958.9	948.7	934.0	919.8	909.8	905.9	909.8	919.8	934.0
43°	945.0	949.1	945.0	934.4	919.5	904.6	894.5	890.3	894.5	904.6	919.5
44°	930.8	934.7	930.8	919.7	904.6	889.5	878.8	874.9	878.8	889.5	904.6



TEST NUMBER: P973034  
 CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-MID-3500K

**CANDELA DISTRIBUTION (continued):**

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	915.9	920.0	915.9	904.7	888.9	873.7	863.0	858.3	863.0	873.7	888.9
46°	900.9	905.1	900.9	889.3	873.2	857.8	846.7	842.4	846.7	857.8	873.2
47°	885.1	889.2	885.1	873.2	857.1	841.4	830.3	825.8	830.3	841.4	857.1
48°	869.4	873.8	869.4	857.1	840.8	825.0	813.3	809.1	813.3	825.0	840.8
49°	852.9	857.5	852.9	840.5	823.9	807.9	796.3	792.2	796.3	807.9	823.9
50°	836.2	840.9	836.2	823.8	807.0	790.8	779.1	774.9	779.1	790.8	807.0
51°	819.1	823.7	819.1	806.5	789.5	773.2	761.4	757.0	761.4	773.2	789.5
52°	801.8	806.3	801.8	789.0	771.8	755.5	743.6	739.0	743.6	755.5	771.8
53°	784.0	788.6	784.0	770.9	753.9	737.4	725.3	720.7	725.3	737.4	753.9
54°	765.7	770.5	765.7	752.8	735.4	718.9	706.7	702.3	706.7	718.9	735.4
55°	747.1	751.9	747.1	734.2	716.9	700.2	688.2	684.0	688.2	700.2	716.9
56°	728.3	732.9	728.3	715.2	698.1	681.4	669.2	665.2	669.2	681.4	698.1
57°	708.9	713.6	708.9	696.0	678.8	662.3	650.3	646.0	650.3	662.3	678.8
58°	689.4	694.0	689.4	676.5	659.3	643.0	631.0	627.1	631.0	643.0	659.3
59°	669.2	674.1	669.2	656.5	639.6	623.1	611.6	607.4	611.6	623.1	639.6
60°	649.0	653.9	649.0	636.6	619.9	603.4	591.9	587.6	591.9	603.4	619.9
61°	628.7	633.1	628.7	616.2	599.6	583.4	572.0	567.8	572.0	583.4	599.6
62°	607.9	612.1	607.9	595.5	579.0	563.4	552.1	548.0	552.1	563.4	579.0
63°	586.5	590.6	586.5	574.5	558.6	542.7	531.8	527.9	531.8	542.7	558.6
64°	565.1	569.4	565.1	553.5	537.6	522.3	511.6	507.8	511.6	522.3	537.6
65°	543.3	547.9	543.3	532.1	516.6	503.0	491.8	488.1	491.8	503.0	516.6
66°	521.4	525.7	521.4	510.3	495.4	482.3	472.1	468.3	472.1	482.3	495.4
67°	499.5	504.2	499.5	489.2	475.0	461.5	451.6	447.9	451.6	461.5	475.0
68°	477.7	482.0	477.7	467.7	454.1	440.3	430.9	427.4	430.9	440.3	454.1
69°	456.0	459.7	456.0	445.9	432.6	419.2	410.2	406.6	410.2	419.2	432.6
70°	433.2	436.9	433.2	423.5	410.7	398.1	389.4	386.0	389.4	398.1	410.7
71°	410.5	413.9	410.5	401.2	389.0	376.8	368.5	365.2	368.5	376.8	389.0
72°	387.6	390.8	387.6	378.8	367.2	355.7	347.8	344.5	347.8	355.7	367.2
73°	364.5	367.5	364.5	356.2	345.2	334.3	326.9	323.9	326.9	334.3	345.2
74°	341.6	344.4	341.6	333.8	323.5	313.2	306.1	303.5	306.1	313.2	323.5
75°	318.4	321.0	318.4	311.2	301.7	292.0	285.5	283.1	285.5	292.0	301.7
76°	295.3	297.7	295.3	288.7	279.8	271.0	264.8	262.5	264.8	271.0	279.8
77°	272.3	274.5	272.3	266.3	258.1	250.1	244.4	242.2	244.4	250.1	258.1
78°	249.4	251.4	249.4	244.0	236.5	229.1	223.9	222.0	223.9	229.1	236.5
79°	226.7	228.6	226.7	221.8	215.1	208.4	203.7	202.0	203.7	208.4	215.1
80°	204.0	205.6	204.0	199.7	193.8	187.8	184.0	182.1	184.0	187.8	193.8
81°	181.5	182.5	181.5	178.0	172.8	167.7	164.4	163.1	164.4	167.7	172.8
82°	159.0	159.8	159.0	156.3	152.0	147.9	145.4	144.2	145.4	147.9	152.0
83°	136.7	137.2	136.7	135.0	131.9	128.8	126.9	126.1	126.9	128.8	131.9
84°	114.8	115.3	114.8	113.7	112.2	110.1	108.8	108.0	108.8	110.1	112.2
85°	93.3	93.5	93.3	93.0	92.8	92.0	91.1	90.6	91.1	92.0	92.8
86°	72.9	72.9	72.9	73.7	74.6	74.6	73.9	73.5	73.9	74.6	74.6
87°	53.5	53.1	53.5	55.7	57.2	57.7	57.0	56.4	57.0	57.7	57.2
88°	37.0	35.9	37.0	39.2	41.0	41.8	41.3	41.2	41.3	41.8	41.0
89°	22.4	21.0	22.4	24.4	26.0	27.3	27.2	26.6	27.2	27.3	26.0



TEST NUMBER: P973034

CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-MID-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: P973034  
 CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-MID-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: P973034  
CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-MID-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: P973034

CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-MID-3500K

**CANDELA DISTRIBUTION (continued):**

	330°	345°	360°
0°	1230.4	1230.4	1230.4
1°	1230.2	1230.5	1230.4
2°	1229.5	1230.1	1230.0
3°	1228.8	1229.4	1229.1
4°	1227.6	1228.0	1228.2
5°	1226.5	1226.8	1226.8
6°	1224.7	1224.9	1225.4
7°	1222.7	1222.9	1223.7
8°	1220.4	1221.0	1221.5
9°	1217.8	1218.6	1219.0
10°	1215.1	1215.8	1216.3
11°	1211.7	1212.8	1213.1
12°	1208.3	1209.1	1209.7
13°	1204.4	1205.3	1206.0
14°	1200.3	1201.2	1201.9
15°	1195.7	1197.2	1198.0
16°	1190.9	1192.2	1193.6
17°	1185.5	1187.7	1188.4
18°	1180.2	1182.3	1183.4
19°	1174.2	1177.0	1177.7
20°	1168.0	1170.9	1172.1
21°	1161.3	1164.7	1165.9
22°	1154.6	1158.1	1159.5
23°	1147.4	1151.4	1152.9
24°	1139.6	1144.2	1146.0
25°	1132.0	1136.8	1138.9
26°	1123.8	1128.9	1131.1
27°	1115.3	1120.7	1123.2
28°	1106.4	1112.4	1114.6
29°	1097.3	1103.4	1105.9
30°	1087.7	1094.3	1096.8
31°	1077.7	1084.7	1087.0
32°	1067.4	1074.8	1077.4
33°	1056.8	1064.4	1067.3
34°	1045.8	1053.8	1057.2
35°	1035.3	1043.0	1046.3
36°	1024.8	1032.6	1035.3
37°	1014.1	1022.3	1024.7
38°	1002.0	1011.6	1013.9
39°	989.2	998.9	1002.5
40°	976.0	986.0	989.7
41°	962.6	972.6	976.8
42°	948.7	958.9	963.2
43°	934.4	945.0	949.1
44°	919.7	930.8	934.7





TEST NUMBER: P973034  
CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-MID-3500K

**CANDELA DISTRIBUTION (continued):**

	330°	345°	360°
45°	904.7	915.9	920.0
46°	889.3	900.9	905.1
47°	873.2	885.1	889.2
48°	857.1	869.4	873.8
49°	840.5	852.9	857.5
50°	823.8	836.2	840.9
51°	806.5	819.1	823.7
52°	789.0	801.8	806.3
53°	770.9	784.0	788.6
54°	752.8	765.7	770.5
55°	734.2	747.1	751.9
56°	715.2	728.3	732.9
57°	696.0	708.9	713.6
58°	676.5	689.4	694.0
59°	656.5	669.2	674.1
60°	636.6	649.0	653.9
61°	616.2	628.7	633.1
62°	595.5	607.9	612.1
63°	574.5	586.5	590.6
64°	553.5	565.1	569.4
65°	532.1	543.3	547.9
66°	510.3	521.4	525.7
67°	489.2	499.5	504.2
68°	467.7	477.7	482.0
69°	445.9	456.0	459.7
70°	423.5	433.2	436.9
71°	401.2	410.5	413.9
72°	378.8	387.6	390.8
73°	356.2	364.5	367.5
74°	333.8	341.6	344.4
75°	311.2	318.4	321.0
76°	288.7	295.3	297.7
77°	266.3	272.3	274.5
78°	244.0	249.4	251.4
79°	221.8	226.7	228.6
80°	199.7	204.0	205.6
81°	178.0	181.5	182.5
82°	156.3	159.0	159.8
83°	135.0	136.7	137.2
84°	113.7	114.8	115.3
85°	93.0	93.3	93.5
86°	73.7	72.9	72.9
87°	55.7	53.5	53.1
88°	39.2	37.0	35.9
89°	24.4	22.4	21.0



TEST NUMBER: P973034  
CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-MID-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: P973034  
CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-MID-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: P973034  
CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-MID-3500K

**CANDELA DISTRIBUTION (continued):**

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)