

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: P973030

Luminaire Tested: 24CGRK-L3C3-UNV-MP4-HI-5000K

Issue Date: 3/12/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973030  
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-HI-5000K  
Description: 2x4 CGRK Backlit Panel Retrofit Kit at, HI lumen, 5000K CCT settings  
Light Source: -  
Ballast/Driver: -

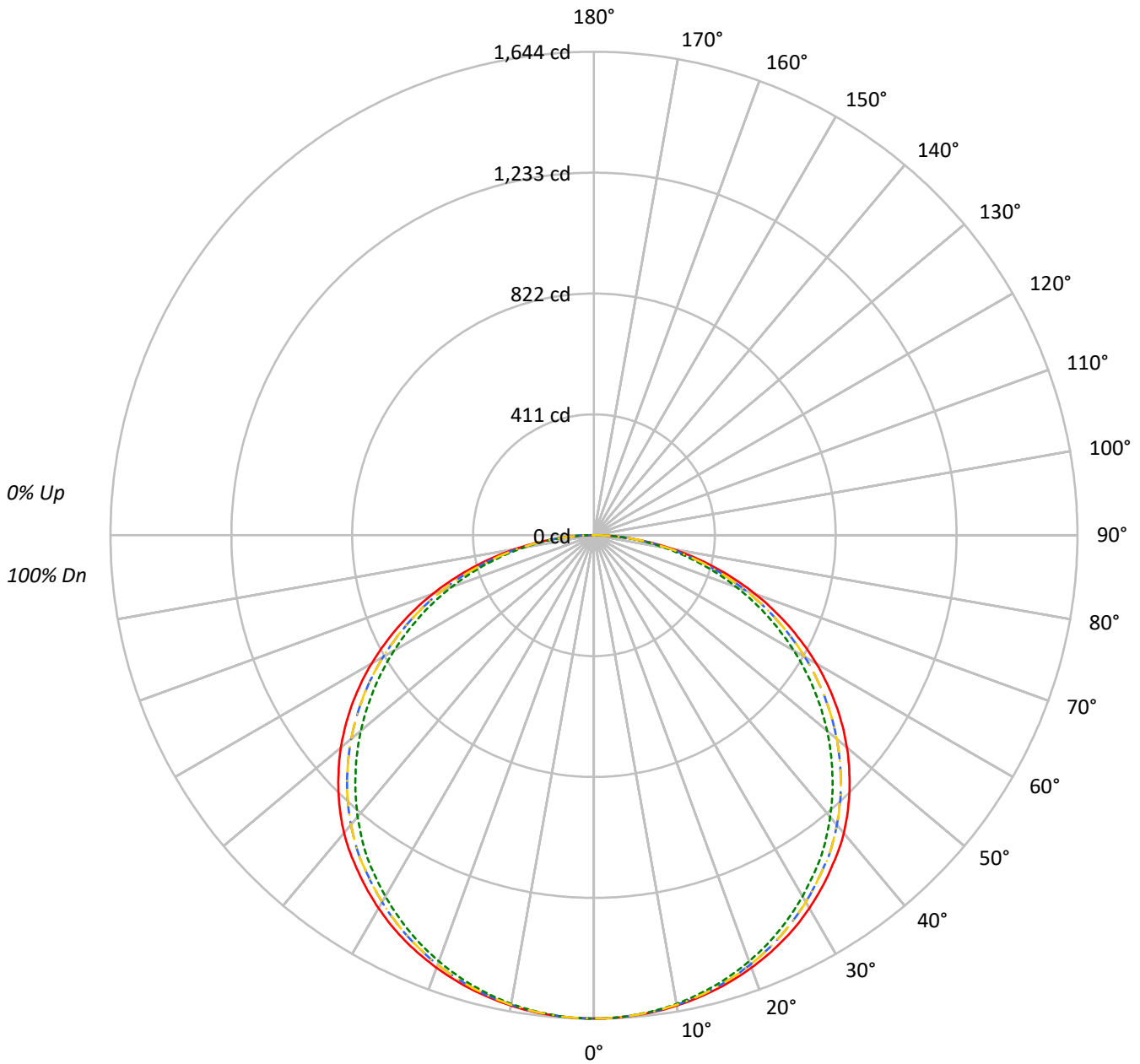
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5175.0 lumens  
Efficiency: N/A  
Efficacy: 139.9 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): 37  
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: P973030  
CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-HI-5000K

### 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°	2517	2517	2517	2517
5°	2519	2517	2519	2517
10°	2526	2516	2526	2516
15°	2537	2515	2537	2515
20°	2551	2513	2551	2513
25°	2570	2511	2570	2511
30°	2591	2508	2591	2508
35°	2613	2509	2613	2509
40°	2643	2499	2643	2499
45°	2661	2483	2661	2483
50°	2676	2466	2676	2466
55°	2682	2439	2682	2439
60°	2675	2404	2675	2404
65°	2652	2363	2652	2363
70°	2613	2308	2613	2308
75°	2537	2237	2537	2237
80°	2422	2145	2422	2145
85°	2193	2126	2193	2126

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 60°  
 Vertical Angle: 89°  
 Luminance: 3194 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.8	3.0
10°-20°	450.0	8.7
20°-30°	693.2	13.4
30°-40°	856.9	16.6
40°-50°	915.9	17.7
50°-60°	855.8	16.5
60°-70°	683.3	13.2
70°-80°	425.5	8.2
80°-90°	138.5	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°	1299.1	25.1
0°-40°	2155.9	41.7
0°-60°	3927.7	75.9
0°-90°	5175.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5175.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1643	1643	1643	1643	1643	
5°	1638	1637	1638	1637	1638	156
15°	1600	1586	1600	1586	1600	452
25°	1521	1486	1521	1486	1521	702
35°	1397	1342	1397	1342	1397	875
45°	1229	1146	1229	1146	1229	948
55°	1004	914	1004	914	1004	897
65°	732	652	732	652	732	723
75°	429	378	429	378	429	452
85°	125	121	125	121	125	133
90°	0	0	0	0	0	9
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: P973030  
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**CANDELA DISTRIBUTION (FULL):**

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	1643.2	1643.2	1643.2	1643.2	1643.2	1643.2	1643.2	1643.2	1643.2	1643.2	1643.2
1°	1643.2	1643.3	1642.9	1642.9	1643.4	1642.9	1643.8	1642.9	1643.4	1642.9	1642.9
2°	1642.6	1642.8	1642.0	1642.3	1642.8	1641.9	1642.7	1641.9	1642.8	1642.3	1642.0
3°	1641.5	1641.8	1641.0	1641.4	1641.5	1640.8	1640.7	1640.8	1641.5	1641.4	1641.0
4°	1640.2	1640.0	1639.4	1639.6	1639.7	1639.1	1639.6	1639.1	1639.7	1639.6	1639.4
5°	1638.3	1638.3	1638.0	1637.6	1637.4	1636.7	1636.9	1636.7	1637.4	1637.6	1638.0
6°	1636.6	1635.8	1635.5	1635.1	1634.8	1634.3	1634.2	1634.3	1634.8	1635.1	1635.5
7°	1634.2	1633.2	1632.9	1632.5	1631.4	1631.0	1630.9	1631.0	1631.4	1632.5	1632.9
8°	1631.4	1630.6	1629.9	1629.4	1628.0	1627.1	1627.1	1627.1	1628.0	1629.4	1629.9
9°	1628.0	1627.4	1626.3	1625.1	1623.8	1623.0	1623.0	1623.0	1623.8	1625.1	1626.3
10°	1624.4	1623.6	1622.7	1621.0	1619.6	1618.4	1618.0	1618.4	1619.6	1621.0	1622.7
11°	1620.1	1619.7	1618.2	1616.4	1614.6	1613.0	1612.4	1613.0	1614.6	1616.4	1618.2
12°	1615.5	1614.8	1613.7	1611.4	1608.9	1607.4	1606.5	1607.4	1608.9	1611.4	1613.7
13°	1610.6	1609.7	1608.4	1605.7	1602.8	1601.4	1600.2	1601.4	1602.8	1605.7	1608.4
14°	1605.1	1604.2	1603.0	1599.8	1596.5	1594.6	1593.2	1594.6	1596.5	1599.8	1603.0
15°	1599.9	1598.8	1596.8	1593.6	1589.8	1587.3	1585.9	1587.3	1589.8	1593.6	1596.8
16°	1594.0	1592.1	1590.5	1586.6	1582.1	1579.6	1578.4	1579.6	1582.1	1586.6	1590.5
17°	1587.1	1586.2	1583.3	1579.1	1574.2	1571.5	1569.9	1571.5	1574.2	1579.1	1583.3
18°	1580.4	1579.0	1576.1	1571.1	1565.8	1562.9	1560.9	1562.9	1565.8	1571.1	1576.1
19°	1572.8	1571.9	1568.2	1562.7	1557.0	1553.5	1551.9	1553.5	1557.0	1562.7	1568.2
20°	1565.3	1563.7	1559.8	1554.0	1547.8	1544.1	1541.6	1544.1	1547.8	1554.0	1559.8
21°	1557.0	1555.4	1551.0	1544.8	1538.0	1534.0	1531.6	1534.0	1538.0	1544.8	1551.0
22°	1548.4	1546.7	1542.0	1534.9	1528.1	1523.3	1520.7	1523.3	1528.1	1534.9	1542.0
23°	1539.7	1537.7	1532.3	1524.6	1517.5	1512.2	1509.7	1512.2	1517.5	1524.6	1532.3
24°	1530.5	1528.1	1522.0	1514.1	1506.4	1500.8	1498.1	1500.8	1506.4	1514.1	1522.0
25°	1520.9	1518.2	1511.7	1503.1	1494.4	1488.4	1485.8	1488.4	1494.4	1503.1	1511.7
26°	1510.6	1507.7	1500.8	1491.3	1483.0	1475.8	1473.3	1475.8	1483.0	1491.3	1500.8
27°	1500.0	1496.7	1489.5	1479.2	1470.1	1462.8	1459.9	1462.8	1470.1	1479.2	1489.5
28°	1488.6	1485.6	1477.5	1466.8	1456.7	1449.1	1446.2	1449.1	1456.7	1466.8	1477.5
29°	1476.9	1473.6	1465.4	1454.0	1443.4	1435.0	1432.2	1435.0	1443.4	1454.0	1465.4
30°	1464.8	1461.4	1452.6	1440.6	1429.5	1420.5	1418.0	1420.5	1429.5	1440.6	1452.6
31°	1451.7	1448.5	1439.3	1426.5	1414.7	1405.7	1403.1	1405.7	1414.7	1426.5	1439.3
32°	1438.9	1435.4	1425.5	1412.2	1400.1	1390.5	1387.8	1390.5	1400.1	1412.2	1425.5
33°	1425.4	1421.5	1411.3	1397.6	1384.7	1375.7	1372.9	1375.7	1384.7	1397.6	1411.3
34°	1411.8	1407.4	1396.6	1382.9	1370.2	1361.4	1358.0	1361.4	1370.2	1382.9	1396.6
35°	1397.3	1392.9	1382.6	1368.7	1355.6	1346.0	1341.9	1346.0	1355.6	1368.7	1382.6
36°	1382.6	1379.0	1368.7	1354.6	1339.6	1328.6	1324.6	1328.6	1339.6	1354.6	1368.7
37°	1368.5	1365.2	1354.3	1338.3	1322.3	1310.8	1306.4	1310.8	1322.3	1338.3	1354.3
38°	1354.1	1350.9	1338.1	1321.2	1304.5	1292.4	1287.6	1292.4	1304.5	1321.2	1338.1
39°	1338.8	1334.0	1321.0	1303.2	1286.0	1273.6	1268.8	1273.6	1286.0	1303.2	1321.0
40°	1321.7	1316.8	1303.4	1285.5	1267.3	1254.6	1249.9	1254.6	1267.3	1285.5	1303.4
41°	1304.4	1298.9	1285.6	1266.8	1247.8	1235.2	1230.0	1235.2	1247.8	1266.8	1285.6
42°	1286.3	1280.7	1267.0	1247.4	1228.4	1215.1	1209.9	1215.1	1228.4	1247.4	1267.0
43°	1267.5	1262.1	1247.8	1228.0	1208.1	1194.6	1189.0	1194.6	1208.1	1228.0	1247.8
44°	1248.2	1243.0	1228.2	1208.1	1187.8	1173.6	1168.3	1173.6	1187.8	1208.1	1228.2



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**CANDELA DISTRIBUTION (continued):**

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	1228.6	1223.2	1208.2	1187.1	1166.8	1152.5	1146.2	1152.5	1166.8	1187.1	1208.2
46°	1208.7	1203.1	1187.6	1166.2	1145.6	1130.8	1125.1	1130.8	1145.6	1166.2	1187.6
47°	1187.5	1182.0	1166.2	1144.7	1123.7	1108.8	1102.9	1108.8	1123.7	1144.7	1166.2
48°	1166.9	1161.0	1144.7	1122.9	1101.7	1086.2	1080.5	1086.2	1101.7	1122.9	1144.7
49°	1145.2	1139.0	1122.5	1100.4	1079.0	1063.4	1058.0	1063.4	1079.0	1100.4	1122.5
50°	1123.0	1116.7	1100.2	1077.7	1056.0	1040.5	1034.8	1040.5	1056.0	1077.7	1100.2
51°	1100.0	1093.9	1077.1	1054.4	1032.6	1016.9	1010.9	1016.9	1032.6	1054.4	1077.1
52°	1076.8	1070.7	1053.6	1030.8	1008.9	993.0	986.9	993.0	1008.9	1030.8	1053.6
53°	1053.2	1047.0	1029.6	1006.8	984.8	968.6	962.5	968.6	984.8	1006.8	1029.6
54°	1028.9	1022.6	1005.3	982.2	960.1	943.8	937.9	943.8	960.1	982.2	1005.3
55°	1004.2	997.7	980.5	957.4	935.1	919.1	913.5	919.1	935.1	957.4	980.5
56°	978.8	972.6	955.2	932.2	910.0	893.7	888.4	893.7	910.0	932.2	955.2
57°	953.1	946.8	929.5	906.6	884.4	868.5	862.7	868.5	884.4	906.6	929.5
58°	926.9	920.6	903.4	880.5	858.7	842.7	837.5	842.7	858.7	880.5	903.4
59°	900.3	893.7	876.8	854.2	832.2	816.8	811.2	816.8	832.2	854.2	876.8
60°	873.2	866.7	850.1	827.9	805.8	790.5	784.8	790.5	805.8	827.9	850.1
61°	845.5	839.6	822.9	800.8	779.2	763.9	758.3	763.9	779.2	800.8	822.9
62°	817.5	811.8	795.3	773.2	752.3	737.3	731.9	737.3	752.3	773.2	795.3
63°	788.8	783.2	767.3	746.0	724.8	710.2	705.1	710.2	724.8	746.0	767.3
64°	760.4	754.7	739.2	718.0	697.5	683.2	678.2	683.2	697.5	718.0	739.2
65°	731.7	725.6	710.6	690.0	671.8	656.8	651.9	656.8	671.8	690.0	710.6
66°	702.1	696.3	681.6	661.6	644.1	630.5	625.4	630.5	644.1	661.6	681.6
67°	673.4	667.1	653.3	634.4	616.3	603.1	598.1	603.1	616.3	634.4	653.3
68°	643.7	638.0	624.6	606.5	588.0	575.4	570.8	575.4	588.0	606.5	624.6
69°	613.9	609.0	595.4	577.7	559.8	547.8	543.0	547.8	559.8	577.7	595.4
70°	583.4	578.6	565.6	548.5	531.7	520.0	515.4	520.0	531.7	548.5	565.6
71°	552.8	548.2	535.8	519.5	503.2	492.1	487.7	492.1	503.2	519.5	535.8
72°	521.9	517.6	505.9	490.4	475.0	464.5	460.1	464.5	475.0	490.4	505.9
73°	490.8	486.8	475.7	461.0	446.5	436.5	432.6	436.5	446.5	461.0	475.7
74°	459.9	456.2	445.8	432.0	418.3	408.8	405.3	408.8	418.3	432.0	445.8
75°	428.7	425.3	415.6	402.9	390.0	381.3	378.1	381.3	390.0	402.9	415.6
76°	397.6	394.3	385.6	373.6	361.9	353.7	350.6	353.7	361.9	373.6	385.6
77°	366.6	363.7	355.7	344.7	334.1	326.3	323.4	326.3	334.1	344.7	355.7
78°	335.7	333.0	325.9	315.9	306.0	299.0	296.4	299.0	306.0	315.9	325.9
79°	305.3	302.8	296.2	287.3	278.3	272.1	269.7	272.1	278.3	287.3	296.2
80°	274.6	272.5	266.7	258.8	250.8	245.7	243.2	245.7	250.8	258.8	266.7
81°	243.8	242.4	237.7	230.7	223.9	219.6	217.8	219.6	223.9	230.7	237.7
82°	213.4	212.3	208.7	203.0	197.5	194.2	192.6	194.2	197.5	203.0	208.7
83°	183.3	182.5	180.2	176.2	172.0	169.5	168.4	169.5	172.0	176.2	180.2
84°	154.0	153.3	151.9	149.8	147.0	145.3	144.3	145.3	147.0	149.8	151.9
85°	124.8	124.6	124.1	123.9	122.9	121.7	121.0	121.7	122.9	123.9	124.1
86°	97.3	97.3	98.4	99.7	99.6	98.7	98.1	98.7	99.6	99.7	98.4
87°	70.9	71.5	74.3	76.4	77.0	76.1	75.4	76.1	77.0	76.4	74.3
88°	47.9	49.4	52.3	54.7	55.8	55.2	55.0	55.2	55.8	54.7	52.3
89°	28.1	29.9	32.6	34.7	36.4	36.3	35.5	36.3	36.4	34.7	32.6



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 CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-HI-5000K

**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: P973030  
 CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-HI-5000K

**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: P973030  
CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-HI-5000K

**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: P973030  
 CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-HI-5000K

**CANDELA DISTRIBUTION (continued):**

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	1643.2	1643.2	1643.2	1643.2	1643.2	1643.2	1643.2	1643.2	1643.2	1643.2	1643.2
1°	1643.3	1643.2	1643.3	1642.9	1642.9	1643.4	1642.9	1643.8	1642.9	1643.4	1642.9
2°	1642.8	1642.6	1642.8	1642.0	1642.3	1642.8	1641.9	1642.7	1641.9	1642.8	1642.3
3°	1641.8	1641.5	1641.8	1641.0	1641.4	1641.5	1640.8	1640.7	1640.8	1641.5	1641.4
4°	1640.0	1640.2	1640.0	1639.4	1639.6	1639.7	1639.1	1639.6	1639.1	1639.7	1639.6
5°	1638.3	1638.3	1638.3	1638.0	1637.6	1637.4	1636.7	1636.9	1636.7	1637.4	1637.6
6°	1635.8	1636.6	1635.8	1635.5	1635.1	1634.8	1634.3	1634.2	1634.3	1634.8	1635.1
7°	1633.2	1634.2	1633.2	1632.9	1632.5	1631.4	1631.0	1630.9	1631.0	1631.4	1632.5
8°	1630.6	1631.4	1630.6	1629.9	1629.4	1628.0	1627.1	1627.1	1627.1	1628.0	1629.4
9°	1627.4	1628.0	1627.4	1626.3	1625.1	1623.8	1623.0	1623.0	1623.0	1623.8	1625.1
10°	1623.6	1624.4	1623.6	1622.7	1621.0	1619.6	1618.4	1618.0	1618.4	1619.6	1621.0
11°	1619.7	1620.1	1619.7	1618.2	1616.4	1614.6	1613.0	1612.4	1613.0	1614.6	1616.4
12°	1614.8	1615.5	1614.8	1613.7	1611.4	1608.9	1607.4	1606.5	1607.4	1608.9	1611.4
13°	1609.7	1610.6	1609.7	1608.4	1605.7	1602.8	1601.4	1600.2	1601.4	1602.8	1605.7
14°	1604.2	1605.1	1604.2	1603.0	1599.8	1596.5	1594.6	1593.2	1594.6	1596.5	1599.8
15°	1598.8	1599.9	1598.8	1596.8	1593.6	1589.8	1587.3	1585.9	1587.3	1589.8	1593.6
16°	1592.1	1594.0	1592.1	1590.5	1586.6	1582.1	1579.6	1578.4	1579.6	1582.1	1586.6
17°	1586.2	1587.1	1586.2	1583.3	1579.1	1574.2	1571.5	1569.9	1571.5	1574.2	1579.1
18°	1579.0	1580.4	1579.0	1576.1	1571.1	1565.8	1562.9	1560.9	1562.9	1565.8	1571.1
19°	1571.9	1572.8	1571.9	1568.2	1562.7	1557.0	1553.5	1551.9	1553.5	1557.0	1562.7
20°	1563.7	1565.3	1563.7	1559.8	1554.0	1547.8	1544.1	1541.6	1544.1	1547.8	1554.0
21°	1555.4	1557.0	1555.4	1551.0	1544.8	1538.0	1534.0	1531.6	1534.0	1538.0	1544.8
22°	1546.7	1548.4	1546.7	1542.0	1534.9	1528.1	1523.3	1520.7	1523.3	1528.1	1534.9
23°	1537.7	1539.7	1537.7	1532.3	1524.6	1517.5	1512.2	1509.7	1512.2	1517.5	1524.6
24°	1528.1	1530.5	1528.1	1522.0	1514.1	1506.4	1500.8	1498.1	1500.8	1506.4	1514.1
25°	1518.2	1520.9	1518.2	1511.7	1503.1	1494.4	1488.4	1485.8	1488.4	1494.4	1503.1
26°	1507.7	1510.6	1507.7	1500.8	1491.3	1483.0	1475.8	1473.3	1475.8	1483.0	1491.3
27°	1496.7	1500.0	1496.7	1489.5	1479.2	1470.1	1462.8	1459.9	1462.8	1470.1	1479.2
28°	1485.6	1488.6	1485.6	1477.5	1466.8	1456.7	1449.1	1446.2	1449.1	1456.7	1466.8
29°	1473.6	1476.9	1473.6	1465.4	1454.0	1443.4	1435.0	1432.2	1435.0	1443.4	1454.0
30°	1461.4	1464.8	1461.4	1452.6	1440.6	1429.5	1420.5	1418.0	1420.5	1429.5	1440.6
31°	1448.5	1451.7	1448.5	1439.3	1426.5	1414.7	1405.7	1403.1	1405.7	1414.7	1426.5
32°	1435.4	1438.9	1435.4	1425.5	1412.2	1400.1	1390.5	1387.8	1390.5	1400.1	1412.2
33°	1421.5	1425.4	1421.5	1411.3	1397.6	1384.7	1375.7	1372.9	1375.7	1384.7	1397.6
34°	1407.4	1411.8	1407.4	1396.6	1382.9	1370.2	1361.4	1358.0	1361.4	1370.2	1382.9
35°	1392.9	1397.3	1392.9	1382.6	1368.7	1355.6	1346.0	1341.9	1346.0	1355.6	1368.7
36°	1379.0	1382.6	1379.0	1368.7	1354.6	1339.6	1328.6	1324.6	1328.6	1339.6	1354.6
37°	1365.2	1368.5	1365.2	1354.3	1338.3	1322.3	1310.8	1306.4	1310.8	1322.3	1338.3
38°	1350.9	1354.1	1350.9	1338.1	1321.2	1304.5	1292.4	1287.6	1292.4	1304.5	1321.2
39°	1334.0	1338.8	1334.0	1321.0	1303.2	1286.0	1273.6	1268.8	1273.6	1286.0	1303.2
40°	1316.8	1321.7	1316.8	1303.4	1285.5	1267.3	1254.6	1249.9	1254.6	1267.3	1285.5
41°	1298.9	1304.4	1298.9	1285.6	1266.8	1247.8	1235.2	1230.0	1235.2	1247.8	1266.8
42°	1280.7	1286.3	1280.7	1267.0	1247.4	1228.4	1215.1	1209.9	1215.1	1228.4	1247.4
43°	1262.1	1267.5	1262.1	1247.8	1228.0	1208.1	1194.6	1189.0	1194.6	1208.1	1228.0
44°	1243.0	1248.2	1243.0	1228.2	1208.1	1187.8	1173.6	1168.3	1173.6	1187.8	1208.1



TEST NUMBER: P973030  
 CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-HI-5000K

**CANDELA DISTRIBUTION (continued):**

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	1223.2	1228.6	1223.2	1208.2	1187.1	1166.8	1152.5	1146.2	1152.5	1166.8	1187.1
46°	1203.1	1208.7	1203.1	1187.6	1166.2	1145.6	1130.8	1125.1	1130.8	1145.6	1166.2
47°	1182.0	1187.5	1182.0	1166.2	1144.7	1123.7	1108.8	1102.9	1108.8	1123.7	1144.7
48°	1161.0	1166.9	1161.0	1144.7	1122.9	1101.7	1086.2	1080.5	1086.2	1101.7	1122.9
49°	1139.0	1145.2	1139.0	1122.5	1100.4	1079.0	1063.4	1058.0	1063.4	1079.0	1100.4
50°	1116.7	1123.0	1116.7	1100.2	1077.7	1056.0	1040.5	1034.8	1040.5	1056.0	1077.7
51°	1093.9	1100.0	1093.9	1077.1	1054.4	1032.6	1016.9	1010.9	1016.9	1032.6	1054.4
52°	1070.7	1076.8	1070.7	1053.6	1030.8	1008.9	993.0	986.9	993.0	1008.9	1030.8
53°	1047.0	1053.2	1047.0	1029.6	1006.8	984.8	968.6	962.5	968.6	984.8	1006.8
54°	1022.6	1028.9	1022.6	1005.3	982.2	960.1	943.8	937.9	943.8	960.1	982.2
55°	997.7	1004.2	997.7	980.5	957.4	935.1	919.1	913.5	919.1	935.1	957.4
56°	972.6	978.8	972.6	955.2	932.2	910.0	893.7	888.4	893.7	910.0	932.2
57°	946.8	953.1	946.8	929.5	906.6	884.4	868.5	862.7	868.5	884.4	906.6
58°	920.6	926.9	920.6	903.4	880.5	858.7	842.7	837.5	842.7	858.7	880.5
59°	893.7	900.3	893.7	876.8	854.2	832.2	816.8	811.2	816.8	832.2	854.2
60°	866.7	873.2	866.7	850.1	827.9	805.8	790.5	784.8	790.5	805.8	827.9
61°	839.6	845.5	839.6	822.9	800.8	779.2	763.9	758.3	763.9	779.2	800.8
62°	811.8	817.5	811.8	795.3	773.2	752.3	737.3	731.9	737.3	752.3	773.2
63°	783.2	788.8	783.2	767.3	746.0	724.8	710.2	705.1	710.2	724.8	746.0
64°	754.7	760.4	754.7	739.2	718.0	697.5	683.2	678.2	683.2	697.5	718.0
65°	725.6	731.7	725.6	710.6	690.0	671.8	656.8	651.9	656.8	671.8	690.0
66°	696.3	702.1	696.3	681.6	661.6	644.1	630.5	625.4	630.5	644.1	661.6
67°	667.1	673.4	667.1	653.3	634.4	616.3	603.1	598.1	603.1	616.3	634.4
68°	638.0	643.7	638.0	624.6	606.5	588.0	575.4	570.8	575.4	588.0	606.5
69°	609.0	613.9	609.0	595.4	577.7	559.8	547.8	543.0	547.8	559.8	577.7
70°	578.6	583.4	578.6	565.6	548.5	531.7	520.0	515.4	520.0	531.7	548.5
71°	548.2	552.8	548.2	535.8	519.5	503.2	492.1	487.7	492.1	503.2	519.5
72°	517.6	521.9	517.6	505.9	490.4	475.0	464.5	460.1	464.5	475.0	490.4
73°	486.8	490.8	486.8	475.7	461.0	446.5	436.5	432.6	436.5	446.5	461.0
74°	456.2	459.9	456.2	445.8	432.0	418.3	408.8	405.3	408.8	418.3	432.0
75°	425.3	428.7	425.3	415.6	402.9	390.0	381.3	378.1	381.3	390.0	402.9
76°	394.3	397.6	394.3	385.6	373.6	361.9	353.7	350.6	353.7	361.9	373.6
77°	363.7	366.6	363.7	355.7	344.7	334.1	326.3	323.4	326.3	334.1	344.7
78°	333.0	335.7	333.0	325.9	315.9	306.0	299.0	296.4	299.0	306.0	315.9
79°	302.8	305.3	302.8	296.2	287.3	278.3	272.1	269.7	272.1	278.3	287.3
80°	272.5	274.6	272.5	266.7	258.8	250.8	245.7	243.2	245.7	250.8	258.8
81°	242.4	243.8	242.4	237.7	230.7	223.9	219.6	217.8	219.6	223.9	230.7
82°	212.3	213.4	212.3	208.7	203.0	197.5	194.2	192.6	194.2	197.5	203.0
83°	182.5	183.3	182.5	180.2	176.2	172.0	169.5	168.4	169.5	172.0	176.2
84°	153.3	154.0	153.3	151.9	149.8	147.0	145.3	144.3	145.3	147.0	149.8
85°	124.6	124.8	124.6	124.1	123.9	122.9	121.7	121.0	121.7	122.9	123.9
86°	97.3	97.3	97.3	98.4	99.7	99.6	98.7	98.1	98.7	99.6	99.7
87°	71.5	70.9	71.5	74.3	76.4	77.0	76.1	75.4	76.1	77.0	76.4
88°	49.4	47.9	49.4	52.3	54.7	55.8	55.2	55.0	55.2	55.8	54.7
89°	29.9	28.1	29.9	32.6	34.7	36.4	36.3	35.5	36.3	36.4	34.7



TEST NUMBER: P973030  
 CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-HI-5000K

**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: P973030  
 CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-HI-5000K

**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: P973030  
CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-HI-5000K

**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: P973030  
 CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-HI-5000K

**CANDELA DISTRIBUTION (continued):**

	330°	345°	360°
0°	1643.2	1643.2	1643.2
1°	1642.9	1643.3	1643.2
2°	1642.0	1642.8	1642.6
3°	1641.0	1641.8	1641.5
4°	1639.4	1640.0	1640.2
5°	1638.0	1638.3	1638.3
6°	1635.5	1635.8	1636.6
7°	1632.9	1633.2	1634.2
8°	1629.9	1630.6	1631.4
9°	1626.3	1627.4	1628.0
10°	1622.7	1623.6	1624.4
11°	1618.2	1619.7	1620.1
12°	1613.7	1614.8	1615.5
13°	1608.4	1609.7	1610.6
14°	1603.0	1604.2	1605.1
15°	1596.8	1598.8	1599.9
16°	1590.5	1592.1	1594.0
17°	1583.3	1586.2	1587.1
18°	1576.1	1579.0	1580.4
19°	1568.2	1571.9	1572.8
20°	1559.8	1563.7	1565.3
21°	1551.0	1555.4	1557.0
22°	1542.0	1546.7	1548.4
23°	1532.3	1537.7	1539.7
24°	1522.0	1528.1	1530.5
25°	1511.7	1518.2	1520.9
26°	1500.8	1507.7	1510.6
27°	1489.5	1496.7	1500.0
28°	1477.5	1485.6	1488.6
29°	1465.4	1473.6	1476.9
30°	1452.6	1461.4	1464.8
31°	1439.3	1448.5	1451.7
32°	1425.5	1435.4	1438.9
33°	1411.3	1421.5	1425.4
34°	1396.6	1407.4	1411.8
35°	1382.6	1392.9	1397.3
36°	1368.7	1379.0	1382.6
37°	1354.3	1365.2	1368.5
38°	1338.1	1350.9	1354.1
39°	1321.0	1334.0	1338.8
40°	1303.4	1316.8	1321.7
41°	1285.6	1298.9	1304.4
42°	1267.0	1280.7	1286.3
43°	1247.8	1262.1	1267.5
44°	1228.2	1243.0	1248.2





TEST NUMBER: P973030  
CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-HI-5000K

**CANDELA DISTRIBUTION (continued):**

	330°	345°	360°
45°	1208.2	1223.2	1228.6
46°	1187.6	1203.1	1208.7
47°	1166.2	1182.0	1187.5
48°	1144.7	1161.0	1166.9
49°	1122.5	1139.0	1145.2
50°	1100.2	1116.7	1123.0
51°	1077.1	1093.9	1100.0
52°	1053.6	1070.7	1076.8
53°	1029.6	1047.0	1053.2
54°	1005.3	1022.6	1028.9
55°	980.5	997.7	1004.2
56°	955.2	972.6	978.8
57°	929.5	946.8	953.1
58°	903.4	920.6	926.9
59°	876.8	893.7	900.3
60°	850.1	866.7	873.2
61°	822.9	839.6	845.5
62°	795.3	811.8	817.5
63°	767.3	783.2	788.8
64°	739.2	754.7	760.4
65°	710.6	725.6	731.7
66°	681.6	696.3	702.1
67°	653.3	667.1	673.4
68°	624.6	638.0	643.7
69°	595.4	609.0	613.9
70°	565.6	578.6	583.4
71°	535.8	548.2	552.8
72°	505.9	517.6	521.9
73°	475.7	486.8	490.8
74°	445.8	456.2	459.9
75°	415.6	425.3	428.7
76°	385.6	394.3	397.6
77°	355.7	363.7	366.6
78°	325.9	333.0	335.7
79°	296.2	302.8	305.3
80°	266.7	272.5	274.6
81°	237.7	242.4	243.8
82°	208.7	212.3	213.4
83°	180.2	182.5	183.3
84°	151.9	153.3	154.0
85°	124.1	124.6	124.8
86°	98.4	97.3	97.3
87°	74.3	71.5	70.9
88°	52.3	49.4	47.9
89°	32.6	29.9	28.1



TEST NUMBER: P973030  
CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-HI-5000K

**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: P973030  
CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-HI-5000K

**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: P973030  
CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-HI-5000K

**CANDELA DISTRIBUTION (continued):**

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)