

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: P973029

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

Issue Date: 3/12/2025

Test Information

Test Method: LM-79-2019
Report Number: P973029
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-4000K
Description: 2x4 CGRK Backlit Panel Retrofit Kit at, HI lumen, 4000K CCT settings
Light Source: -
Ballast/Driver: -

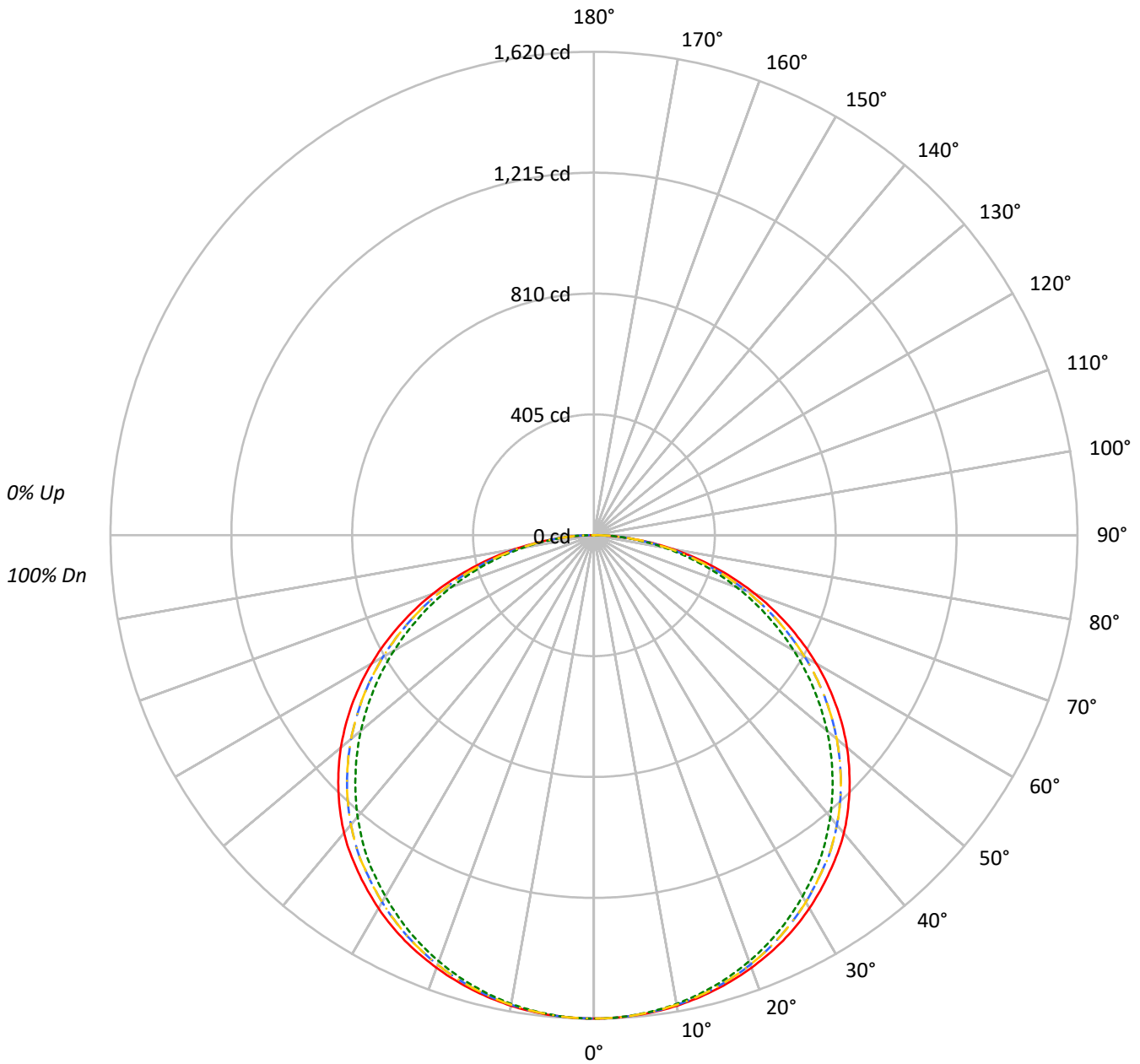
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5100.0 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): 35.7
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

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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°	2480	2480	2480	2480
5°	2482	2480	2482	2480
10°	2490	2480	2490	2480
15°	2500	2478	2500	2478
20°	2514	2476	2514	2476
25°	2533	2474	2533	2474
30°	2553	2471	2553	2471
35°	2575	2473	2575	2473
40°	2604	2463	2604	2463
45°	2623	2447	2623	2447
50°	2637	2430	2637	2430
55°	2643	2404	2643	2404
60°	2636	2369	2636	2369
65°	2613	2329	2613	2329
70°	2575	2275	2575	2275
75°	2500	2206	2500	2206
80°	2387	2114	2387	2114
85°	2162	2097	2162	2097

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 60°
 Vertical Angle: 89°
 Luminance: 3151 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.5	3.0
10°-20°	443.5	8.7
20°-30°	683.2	13.4
30°-40°	844.4	16.6
40°-50°	902.6	17.7
50°-60°	843.4	16.5
60°-70°	673.4	13.2
70°-80°	419.3	8.2
80°-90°	136.5	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°	1280.2	25.1
0°-40°	2124.7	41.7
0°-60°	3870.8	75.9
0°-90°	5100.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5100.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1619	1619	1619	1619	1619	
5°	1615	1613	1615	1613	1615	154
15°	1577	1563	1577	1563	1577	446
25°	1499	1464	1499	1464	1499	691
35°	1377	1322	1377	1322	1377	863
45°	1211	1130	1211	1130	1211	934
55°	990	900	990	900	990	884
65°	721	642	721	642	721	713
75°	422	373	422	373	422	446
85°	123	119	123	119	123	131
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: P973029
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CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	1619.4	1619.4	1619.4	1619.4	1619.4	1619.4	1619.4	1619.4	1619.4	1619.4	1619.4
1°	1619.4	1619.5	1619.1	1619.1	1619.6	1619.1	1619.9	1619.1	1619.6	1619.1	1619.1
2°	1618.8	1619.0	1618.2	1618.5	1619.0	1618.1	1618.9	1618.1	1619.0	1618.5	1618.2
3°	1617.7	1618.0	1617.3	1617.6	1617.7	1617.1	1617.0	1617.1	1617.7	1617.6	1617.3
4°	1616.4	1616.2	1615.6	1615.8	1615.9	1615.3	1615.8	1615.3	1615.9	1615.8	1615.6
5°	1614.6	1614.6	1614.3	1613.9	1613.7	1612.9	1613.2	1612.9	1613.7	1613.9	1614.3
6°	1612.8	1612.1	1611.8	1611.4	1611.1	1610.6	1610.5	1610.6	1611.1	1611.4	1611.8
7°	1610.5	1609.6	1609.2	1608.8	1607.7	1607.4	1607.3	1607.4	1607.7	1608.8	1609.2
8°	1607.7	1607.0	1606.3	1605.8	1604.4	1603.5	1603.5	1603.5	1604.4	1605.8	1606.3
9°	1604.4	1603.8	1602.8	1601.5	1600.3	1599.5	1599.5	1599.5	1600.3	1601.5	1602.8
10°	1600.8	1600.1	1599.2	1597.5	1596.1	1595.0	1594.6	1595.0	1596.1	1597.5	1599.2
11°	1596.6	1596.2	1594.8	1593.0	1591.2	1589.6	1589.0	1589.6	1591.2	1593.0	1594.8
12°	1592.1	1591.4	1590.3	1588.1	1585.6	1584.1	1583.2	1584.1	1585.6	1588.1	1590.3
13°	1587.3	1586.3	1585.1	1582.4	1579.5	1578.2	1577.0	1578.2	1579.5	1582.4	1585.1
14°	1581.8	1581.0	1579.8	1576.6	1573.4	1571.5	1570.1	1571.5	1573.4	1576.6	1579.8
15°	1576.7	1575.6	1573.7	1570.5	1566.8	1564.3	1562.9	1564.3	1566.8	1570.5	1573.7
16°	1570.9	1569.1	1567.4	1563.6	1559.2	1556.7	1555.5	1556.7	1559.2	1563.6	1567.4
17°	1564.1	1563.2	1560.3	1556.2	1551.4	1548.7	1547.2	1548.7	1551.4	1556.2	1560.3
18°	1557.5	1556.1	1553.2	1548.3	1543.1	1540.3	1538.2	1540.3	1543.1	1548.3	1553.2
19°	1550.1	1549.1	1545.4	1540.1	1534.4	1530.9	1529.4	1530.9	1534.4	1540.1	1545.4
20°	1542.7	1541.0	1537.2	1531.5	1525.4	1521.7	1519.2	1521.7	1525.4	1531.5	1537.2
21°	1534.4	1532.9	1528.5	1522.4	1515.7	1511.7	1509.4	1511.7	1515.7	1522.4	1528.5
22°	1526.0	1524.3	1519.6	1512.6	1506.0	1501.2	1498.7	1501.2	1506.0	1512.6	1519.6
23°	1517.4	1515.4	1510.1	1502.5	1495.5	1490.2	1487.8	1490.2	1495.5	1502.5	1510.1
24°	1508.3	1506.0	1499.9	1492.2	1484.6	1479.0	1476.4	1479.0	1484.6	1492.2	1499.9
25°	1498.9	1496.2	1489.8	1481.3	1472.8	1466.8	1464.2	1466.8	1472.8	1481.3	1489.8
26°	1488.7	1485.8	1479.0	1469.7	1461.5	1454.4	1451.9	1454.4	1461.5	1469.7	1479.0
27°	1478.2	1475.0	1467.9	1457.8	1448.8	1441.6	1438.8	1441.6	1448.8	1457.8	1467.9
28°	1467.0	1464.0	1456.1	1445.5	1435.6	1428.1	1425.2	1428.1	1435.6	1445.5	1456.1
29°	1455.5	1452.2	1444.2	1432.9	1422.5	1414.2	1411.4	1414.2	1422.5	1432.9	1444.2
30°	1443.6	1440.2	1431.6	1419.7	1408.7	1399.9	1397.4	1399.9	1408.7	1419.7	1431.6
31°	1430.6	1427.6	1418.4	1405.9	1394.2	1385.3	1382.7	1385.3	1394.2	1405.9	1418.4
32°	1418.0	1414.6	1404.8	1391.7	1379.8	1370.3	1367.6	1370.3	1379.8	1391.7	1404.8
33°	1404.7	1400.9	1390.9	1377.3	1364.7	1355.7	1353.0	1355.7	1364.7	1377.3	1390.9
34°	1391.4	1387.0	1376.4	1362.8	1350.4	1341.6	1338.4	1341.6	1350.4	1362.8	1376.4
35°	1377.1	1372.7	1362.6	1348.8	1336.0	1326.5	1322.4	1326.5	1336.0	1348.8	1362.6
36°	1362.6	1359.0	1348.8	1335.0	1320.2	1309.4	1305.4	1309.4	1320.2	1335.0	1348.8
37°	1348.6	1345.4	1334.7	1318.9	1303.1	1291.8	1287.5	1291.8	1303.1	1318.9	1334.7
38°	1334.4	1331.4	1318.7	1302.1	1285.6	1273.7	1269.0	1273.7	1285.6	1302.1	1318.7
39°	1319.4	1314.7	1301.9	1284.3	1267.3	1255.1	1250.4	1255.1	1267.3	1284.3	1301.9
40°	1302.6	1297.8	1284.5	1266.8	1248.9	1236.4	1231.8	1236.4	1248.9	1266.8	1284.5
41°	1285.5	1280.1	1266.9	1248.4	1229.7	1217.3	1212.2	1217.3	1229.7	1248.4	1266.9
42°	1267.6	1262.1	1248.6	1229.3	1210.6	1197.5	1192.3	1197.5	1210.6	1229.3	1248.6
43°	1249.1	1243.8	1229.7	1210.2	1190.6	1177.3	1171.8	1177.3	1190.6	1210.2	1229.7
44°	1230.1	1225.0	1210.4	1190.6	1170.6	1156.6	1151.4	1156.6	1170.6	1190.6	1210.4



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CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	1210.8	1205.5	1190.7	1169.9	1149.9	1135.8	1129.6	1135.8	1149.9	1169.9	1190.7
46°	1191.2	1185.6	1170.4	1149.3	1129.0	1114.4	1108.8	1114.4	1129.0	1149.3	1170.4
47°	1170.3	1164.9	1149.3	1128.1	1107.4	1092.7	1086.9	1092.7	1107.4	1128.1	1149.3
48°	1150.0	1144.2	1128.1	1106.6	1085.7	1070.4	1064.9	1070.4	1085.7	1106.6	1128.1
49°	1128.6	1122.5	1106.2	1084.4	1063.3	1048.0	1042.7	1048.0	1063.3	1084.4	1106.2
50°	1106.7	1100.5	1084.2	1062.1	1040.7	1025.4	1019.8	1025.4	1040.7	1062.1	1084.2
51°	1084.1	1078.0	1061.5	1039.1	1017.6	1002.1	996.3	1002.1	1017.6	1039.1	1061.5
52°	1061.2	1055.2	1038.4	1015.8	994.3	978.7	972.6	978.7	994.3	1015.8	1038.4
53°	1038.0	1031.8	1014.6	992.2	970.5	954.6	948.5	954.6	970.5	992.2	1014.6
54°	1014.0	1007.8	990.7	967.9	946.1	930.2	924.3	930.2	946.1	967.9	990.7
55°	989.6	983.3	966.3	943.5	921.6	905.7	900.3	905.7	921.6	943.5	966.3
56°	964.6	958.5	941.3	918.7	896.8	880.8	875.5	880.8	896.8	918.7	941.3
57°	939.2	933.0	916.1	893.4	871.6	855.9	850.2	855.9	871.6	893.4	916.1
58°	913.5	907.3	890.3	867.7	846.2	830.5	825.3	830.5	846.2	867.7	890.3
59°	887.2	880.7	864.1	841.8	820.1	804.9	799.4	804.9	820.1	841.8	864.1
60°	860.6	854.2	837.8	815.9	794.1	779.0	773.4	779.0	794.1	815.9	837.8
61°	833.2	827.4	811.0	789.2	767.9	752.8	747.3	752.8	767.9	789.2	811.0
62°	805.7	800.1	783.8	762.0	741.4	726.6	721.3	726.6	741.4	762.0	783.8
63°	777.4	771.9	756.2	735.2	714.3	699.9	694.8	699.9	714.3	735.2	756.2
64°	749.4	743.7	728.4	707.5	687.4	673.3	668.3	673.3	687.4	707.5	728.4
65°	721.1	715.1	700.3	680.0	662.0	647.3	642.5	647.3	662.0	680.0	700.3
66°	691.9	686.2	671.7	652.0	634.7	621.4	616.3	621.4	634.7	652.0	671.7
67°	663.6	657.5	643.9	625.2	607.4	594.3	589.4	594.3	607.4	625.2	643.9
68°	634.4	628.7	615.5	597.7	579.5	567.1	562.5	567.1	579.5	597.7	615.5
69°	605.0	600.2	586.8	569.3	551.7	539.9	535.2	539.9	551.7	569.3	586.8
70°	575.0	570.2	557.4	540.5	524.0	512.4	508.0	512.4	524.0	540.5	557.4
71°	544.8	540.2	528.0	512.0	495.9	484.9	480.6	484.9	495.9	512.0	528.0
72°	514.4	510.1	498.5	483.3	468.1	457.8	453.4	457.8	468.1	483.3	498.5
73°	483.7	479.8	468.8	454.3	440.0	430.2	426.3	430.2	440.0	454.3	468.8
74°	453.2	449.6	439.3	425.8	412.2	402.9	399.4	402.9	412.2	425.8	439.3
75°	422.5	419.1	409.6	397.0	384.3	375.8	372.7	375.8	384.3	397.0	409.6
76°	391.8	388.6	380.0	368.2	356.6	348.6	345.5	348.6	356.6	368.2	380.0
77°	361.2	358.4	350.5	339.7	329.2	321.6	318.7	321.6	329.2	339.7	350.5
78°	330.8	328.2	321.2	311.3	301.6	294.7	292.1	294.7	301.6	311.3	321.2
79°	300.8	298.4	291.9	283.1	274.3	268.1	265.8	268.1	274.3	283.1	291.9
80°	270.6	268.6	262.9	255.0	247.2	242.1	239.7	242.1	247.2	255.0	262.9
81°	240.2	238.8	234.3	227.4	220.7	216.4	214.6	216.4	220.7	227.4	234.3
82°	210.3	209.2	205.7	200.0	194.7	191.4	189.8	191.4	194.7	200.0	205.7
83°	180.6	179.9	177.6	173.6	169.5	167.0	166.0	167.0	169.5	173.6	177.6
84°	151.7	151.1	149.7	147.6	144.9	143.2	142.2	143.2	144.9	147.6	149.7
85°	123.0	122.8	122.3	122.1	121.1	119.9	119.3	119.9	121.1	122.1	122.3
86°	95.9	95.9	97.0	98.2	98.2	97.3	96.7	97.3	98.2	98.2	97.0
87°	69.9	70.5	73.3	75.2	75.9	75.0	74.3	75.0	75.9	75.2	73.3
88°	47.2	48.7	51.6	53.9	55.0	54.4	54.2	54.4	55.0	53.9	51.6
89°	27.7	29.5	32.1	34.2	35.9	35.8	35.0	35.8	35.9	34.2	32.1



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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: P973029
 CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-HI-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: P973029
CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-HI-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: P973029
 CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-HI-4000K

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	1619.4	1619.4	1619.4	1619.4	1619.4	1619.4	1619.4	1619.4	1619.4	1619.4	1619.4
1°	1619.5	1619.4	1619.5	1619.1	1619.1	1619.6	1619.1	1619.9	1619.1	1619.6	1619.1
2°	1619.0	1618.8	1619.0	1618.2	1618.5	1619.0	1618.1	1618.9	1618.1	1619.0	1618.5
3°	1618.0	1617.7	1618.0	1617.3	1617.6	1617.7	1617.1	1617.0	1617.1	1617.7	1617.6
4°	1616.2	1616.4	1616.2	1615.6	1615.8	1615.9	1615.3	1615.8	1615.3	1615.9	1615.8
5°	1614.6	1614.6	1614.6	1614.3	1613.9	1613.7	1612.9	1613.2	1612.9	1613.7	1613.9
6°	1612.1	1612.8	1612.1	1611.8	1611.4	1611.1	1610.6	1610.5	1610.6	1611.1	1611.4
7°	1609.6	1610.5	1609.6	1609.2	1608.8	1607.7	1607.4	1607.3	1607.4	1607.7	1608.8
8°	1607.0	1607.7	1607.0	1606.3	1605.8	1604.4	1603.5	1603.5	1603.5	1604.4	1605.8
9°	1603.8	1604.4	1603.8	1602.8	1601.5	1600.3	1599.5	1599.5	1599.5	1600.3	1601.5
10°	1600.1	1600.8	1600.1	1599.2	1597.5	1596.1	1595.0	1594.6	1595.0	1596.1	1597.5
11°	1596.2	1596.6	1596.2	1594.8	1593.0	1591.2	1589.6	1589.0	1589.6	1591.2	1593.0
12°	1591.4	1592.1	1591.4	1590.3	1588.1	1585.6	1584.1	1583.2	1584.1	1585.6	1588.1
13°	1586.3	1587.3	1586.3	1585.1	1582.4	1579.5	1578.2	1577.0	1578.2	1579.5	1582.4
14°	1581.0	1581.8	1581.0	1579.8	1576.6	1573.4	1571.5	1570.1	1571.5	1573.4	1576.6
15°	1575.6	1576.7	1575.6	1573.7	1570.5	1566.8	1564.3	1562.9	1564.3	1566.8	1570.5
16°	1569.1	1570.9	1569.1	1567.4	1563.6	1559.2	1556.7	1555.5	1556.7	1559.2	1563.6
17°	1563.2	1564.1	1563.2	1560.3	1556.2	1551.4	1548.7	1547.2	1548.7	1551.4	1556.2
18°	1556.1	1557.5	1556.1	1553.2	1548.3	1543.1	1540.3	1538.2	1540.3	1543.1	1548.3
19°	1549.1	1550.1	1549.1	1545.4	1540.1	1534.4	1530.9	1529.4	1530.9	1534.4	1540.1
20°	1541.0	1542.7	1541.0	1537.2	1531.5	1525.4	1521.7	1519.2	1521.7	1525.4	1531.5
21°	1532.9	1534.4	1532.9	1528.5	1522.4	1515.7	1511.7	1509.4	1511.7	1515.7	1522.4
22°	1524.3	1526.0	1524.3	1519.6	1512.6	1506.0	1501.2	1498.7	1501.2	1506.0	1512.6
23°	1515.4	1517.4	1515.4	1510.1	1502.5	1495.5	1490.2	1487.8	1490.2	1495.5	1502.5
24°	1506.0	1508.3	1506.0	1499.9	1492.2	1484.6	1479.0	1476.4	1479.0	1484.6	1492.2
25°	1496.2	1498.9	1496.2	1489.8	1481.3	1472.8	1466.8	1464.2	1466.8	1472.8	1481.3
26°	1485.8	1488.7	1485.8	1479.0	1469.7	1461.5	1454.4	1451.9	1454.4	1461.5	1469.7
27°	1475.0	1478.2	1475.0	1467.9	1457.8	1448.8	1441.6	1438.8	1441.6	1448.8	1457.8
28°	1464.0	1467.0	1464.0	1456.1	1445.5	1435.6	1428.1	1425.2	1428.1	1435.6	1445.5
29°	1452.2	1455.5	1452.2	1444.2	1432.9	1422.5	1414.2	1411.4	1414.2	1422.5	1432.9
30°	1440.2	1443.6	1440.2	1431.6	1419.7	1408.7	1399.9	1397.4	1399.9	1408.7	1419.7
31°	1427.6	1430.6	1427.6	1418.4	1405.9	1394.2	1385.3	1382.7	1385.3	1394.2	1405.9
32°	1414.6	1418.0	1414.6	1404.8	1391.7	1379.8	1370.3	1367.6	1370.3	1379.8	1391.7
33°	1400.9	1404.7	1400.9	1390.9	1377.3	1364.7	1355.7	1353.0	1355.7	1364.7	1377.3
34°	1387.0	1391.4	1387.0	1376.4	1362.8	1350.4	1341.6	1338.4	1341.6	1350.4	1362.8
35°	1372.7	1377.1	1372.7	1362.6	1348.8	1336.0	1326.5	1322.4	1326.5	1336.0	1348.8
36°	1359.0	1362.6	1359.0	1348.8	1335.0	1320.2	1309.4	1305.4	1309.4	1320.2	1335.0
37°	1345.4	1348.6	1345.4	1334.7	1318.9	1303.1	1291.8	1287.5	1291.8	1303.1	1318.9
38°	1331.4	1334.4	1331.4	1318.7	1302.1	1285.6	1273.7	1269.0	1273.7	1285.6	1302.1
39°	1314.7	1319.4	1314.7	1301.9	1284.3	1267.3	1255.1	1250.4	1255.1	1267.3	1284.3
40°	1297.8	1302.6	1297.8	1284.5	1266.8	1248.9	1236.4	1231.8	1236.4	1248.9	1266.8
41°	1280.1	1285.5	1280.1	1266.9	1248.4	1229.7	1217.3	1212.2	1217.3	1229.7	1248.4
42°	1262.1	1267.6	1262.1	1248.6	1229.3	1210.6	1197.5	1192.3	1197.5	1210.6	1229.3
43°	1243.8	1249.1	1243.8	1229.7	1210.2	1190.6	1177.3	1171.8	1177.3	1190.6	1210.2
44°	1225.0	1230.1	1225.0	1210.4	1190.6	1170.6	1156.6	1151.4	1156.6	1170.6	1190.6



TEST NUMBER: P973029
 CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-HI-4000K

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	1205.5	1210.8	1205.5	1190.7	1169.9	1149.9	1135.8	1129.6	1135.8	1149.9	1169.9
46°	1185.6	1191.2	1185.6	1170.4	1149.3	1129.0	1114.4	1108.8	1114.4	1129.0	1149.3
47°	1164.9	1170.3	1164.9	1149.3	1128.1	1107.4	1092.7	1086.9	1092.7	1107.4	1128.1
48°	1144.2	1150.0	1144.2	1128.1	1106.6	1085.7	1070.4	1064.9	1070.4	1085.7	1106.6
49°	1122.5	1128.6	1122.5	1106.2	1084.4	1063.3	1048.0	1042.7	1048.0	1063.3	1084.4
50°	1100.5	1106.7	1100.5	1084.2	1062.1	1040.7	1025.4	1019.8	1025.4	1040.7	1062.1
51°	1078.0	1084.1	1078.0	1061.5	1039.1	1017.6	1002.1	996.3	1002.1	1017.6	1039.1
52°	1055.2	1061.2	1055.2	1038.4	1015.8	994.3	978.7	972.6	978.7	994.3	1015.8
53°	1031.8	1038.0	1031.8	1014.6	992.2	970.5	954.6	948.5	954.6	970.5	992.2
54°	1007.8	1014.0	1007.8	990.7	967.9	946.1	930.2	924.3	930.2	946.1	967.9
55°	983.3	989.6	983.3	966.3	943.5	921.6	905.7	900.3	905.7	921.6	943.5
56°	958.5	964.6	958.5	941.3	918.7	896.8	880.8	875.5	880.8	896.8	918.7
57°	933.0	939.2	933.0	916.1	893.4	871.6	855.9	850.2	855.9	871.6	893.4
58°	907.3	913.5	907.3	890.3	867.7	846.2	830.5	825.3	830.5	846.2	867.7
59°	880.7	887.2	880.7	864.1	841.8	820.1	804.9	799.4	804.9	820.1	841.8
60°	854.2	860.6	854.2	837.8	815.9	794.1	779.0	773.4	779.0	794.1	815.9
61°	827.4	833.2	827.4	811.0	789.2	767.9	752.8	747.3	752.8	767.9	789.2
62°	800.1	805.7	800.1	783.8	762.0	741.4	726.6	721.3	726.6	741.4	762.0
63°	771.9	777.4	771.9	756.2	735.2	714.3	699.9	694.8	699.9	714.3	735.2
64°	743.7	749.4	743.7	728.4	707.5	687.4	673.3	668.3	673.3	687.4	707.5
65°	715.1	721.1	715.1	700.3	680.0	662.0	647.3	642.5	647.3	662.0	680.0
66°	686.2	691.9	686.2	671.7	652.0	634.7	621.4	616.3	621.4	634.7	652.0
67°	657.5	663.6	657.5	643.9	625.2	607.4	594.3	589.4	594.3	607.4	625.2
68°	628.7	634.4	628.7	615.5	597.7	579.5	567.1	562.5	567.1	579.5	597.7
69°	600.2	605.0	600.2	586.8	569.3	551.7	539.9	535.2	539.9	551.7	569.3
70°	570.2	575.0	570.2	557.4	540.5	524.0	512.4	508.0	512.4	524.0	540.5
71°	540.2	544.8	540.2	528.0	512.0	495.9	484.9	480.6	484.9	495.9	512.0
72°	510.1	514.4	510.1	498.5	483.3	468.1	457.8	453.4	457.8	468.1	483.3
73°	479.8	483.7	479.8	468.8	454.3	440.0	430.2	426.3	430.2	440.0	454.3
74°	449.6	453.2	449.6	439.3	425.8	412.2	402.9	399.4	402.9	412.2	425.8
75°	419.1	422.5	419.1	409.6	397.0	384.3	375.8	372.7	375.8	384.3	397.0
76°	388.6	391.8	388.6	380.0	368.2	356.6	348.6	345.5	348.6	356.6	368.2
77°	358.4	361.2	358.4	350.5	339.7	329.2	321.6	318.7	321.6	329.2	339.7
78°	328.2	330.8	328.2	321.2	311.3	301.6	294.7	292.1	294.7	301.6	311.3
79°	298.4	300.8	298.4	291.9	283.1	274.3	268.1	265.8	268.1	274.3	283.1
80°	268.6	270.6	268.6	262.9	255.0	247.2	242.1	239.7	242.1	247.2	255.0
81°	238.8	240.2	238.8	234.3	227.4	220.7	216.4	214.6	216.4	220.7	227.4
82°	209.2	210.3	209.2	205.7	200.0	194.7	191.4	189.8	191.4	194.7	200.0
83°	179.9	180.6	179.9	177.6	173.6	169.5	167.0	166.0	167.0	169.5	173.6
84°	151.1	151.7	151.1	149.7	147.6	144.9	143.2	142.2	143.2	144.9	147.6
85°	122.8	123.0	122.8	122.3	122.1	121.1	119.9	119.3	119.9	121.1	122.1
86°	95.9	95.9	95.9	97.0	98.2	98.2	97.3	96.7	97.3	98.2	98.2
87°	70.5	69.9	70.5	73.3	75.2	75.9	75.0	74.3	75.0	75.9	75.2
88°	48.7	47.2	48.7	51.6	53.9	55.0	54.4	54.2	54.4	55.0	53.9
89°	29.5	27.7	29.5	32.1	34.2	35.9	35.8	35.0	35.8	35.9	34.2



TEST NUMBER: P973029
 CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-HI-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: P973029
 CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-HI-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: P973029
CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-HI-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: P973029
 CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-HI-4000K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	1619.4	1619.4	1619.4
1°	1619.1	1619.5	1619.4
2°	1618.2	1619.0	1618.8
3°	1617.3	1618.0	1617.7
4°	1615.6	1616.2	1616.4
5°	1614.3	1614.6	1614.6
6°	1611.8	1612.1	1612.8
7°	1609.2	1609.6	1610.5
8°	1606.3	1607.0	1607.7
9°	1602.8	1603.8	1604.4
10°	1599.2	1600.1	1600.8
11°	1594.8	1596.2	1596.6
12°	1590.3	1591.4	1592.1
13°	1585.1	1586.3	1587.3
14°	1579.8	1581.0	1581.8
15°	1573.7	1575.6	1576.7
16°	1567.4	1569.1	1570.9
17°	1560.3	1563.2	1564.1
18°	1553.2	1556.1	1557.5
19°	1545.4	1549.1	1550.1
20°	1537.2	1541.0	1542.7
21°	1528.5	1532.9	1534.4
22°	1519.6	1524.3	1526.0
23°	1510.1	1515.4	1517.4
24°	1499.9	1506.0	1508.3
25°	1489.8	1496.2	1498.9
26°	1479.0	1485.8	1488.7
27°	1467.9	1475.0	1478.2
28°	1456.1	1464.0	1467.0
29°	1444.2	1452.2	1455.5
30°	1431.6	1440.2	1443.6
31°	1418.4	1427.6	1430.6
32°	1404.8	1414.6	1418.0
33°	1390.9	1400.9	1404.7
34°	1376.4	1387.0	1391.4
35°	1362.6	1372.7	1377.1
36°	1348.8	1359.0	1362.6
37°	1334.7	1345.4	1348.6
38°	1318.7	1331.4	1334.4
39°	1301.9	1314.7	1319.4
40°	1284.5	1297.8	1302.6
41°	1266.9	1280.1	1285.5
42°	1248.6	1262.1	1267.6
43°	1229.7	1243.8	1249.1
44°	1210.4	1225.0	1230.1



TEST NUMBER: P973029
CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-HI-4000K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	1190.7	1205.5	1210.8
46°	1170.4	1185.6	1191.2
47°	1149.3	1164.9	1170.3
48°	1128.1	1144.2	1150.0
49°	1106.2	1122.5	1128.6
50°	1084.2	1100.5	1106.7
51°	1061.5	1078.0	1084.1
52°	1038.4	1055.2	1061.2
53°	1014.6	1031.8	1038.0
54°	990.7	1007.8	1014.0
55°	966.3	983.3	989.6
56°	941.3	958.5	964.6
57°	916.1	933.0	939.2
58°	890.3	907.3	913.5
59°	864.1	880.7	887.2
60°	837.8	854.2	860.6
61°	811.0	827.4	833.2
62°	783.8	800.1	805.7
63°	756.2	771.9	777.4
64°	728.4	743.7	749.4
65°	700.3	715.1	721.1
66°	671.7	686.2	691.9
67°	643.9	657.5	663.6
68°	615.5	628.7	634.4
69°	586.8	600.2	605.0
70°	557.4	570.2	575.0
71°	528.0	540.2	544.8
72°	498.5	510.1	514.4
73°	468.8	479.8	483.7
74°	439.3	449.6	453.2
75°	409.6	419.1	422.5
76°	380.0	388.6	391.8
77°	350.5	358.4	361.2
78°	321.2	328.2	330.8
79°	291.9	298.4	300.8
80°	262.9	268.6	270.6
81°	234.3	238.8	240.2
82°	205.7	209.2	210.3
83°	177.6	179.9	180.6
84°	149.7	151.1	151.7
85°	122.3	122.8	123.0
86°	97.0	95.9	95.9
87°	73.3	70.5	69.9
88°	51.6	48.7	47.2
89°	32.1	29.5	27.7



TEST NUMBER: P973029
CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-HI-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: P973029
CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-HI-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: P973029
CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-HI-4000K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)