

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: P973028

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

Issue Date: 3/12/2025

Test Information

Test Method: LM-79-2019
Report Number: P973028
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-3500K
Description: 2x4 CGRK Backlit Panel Retrofit Kit at, HI lumen, 3500K CCT settings
Light Source: -
Ballast/Driver: -

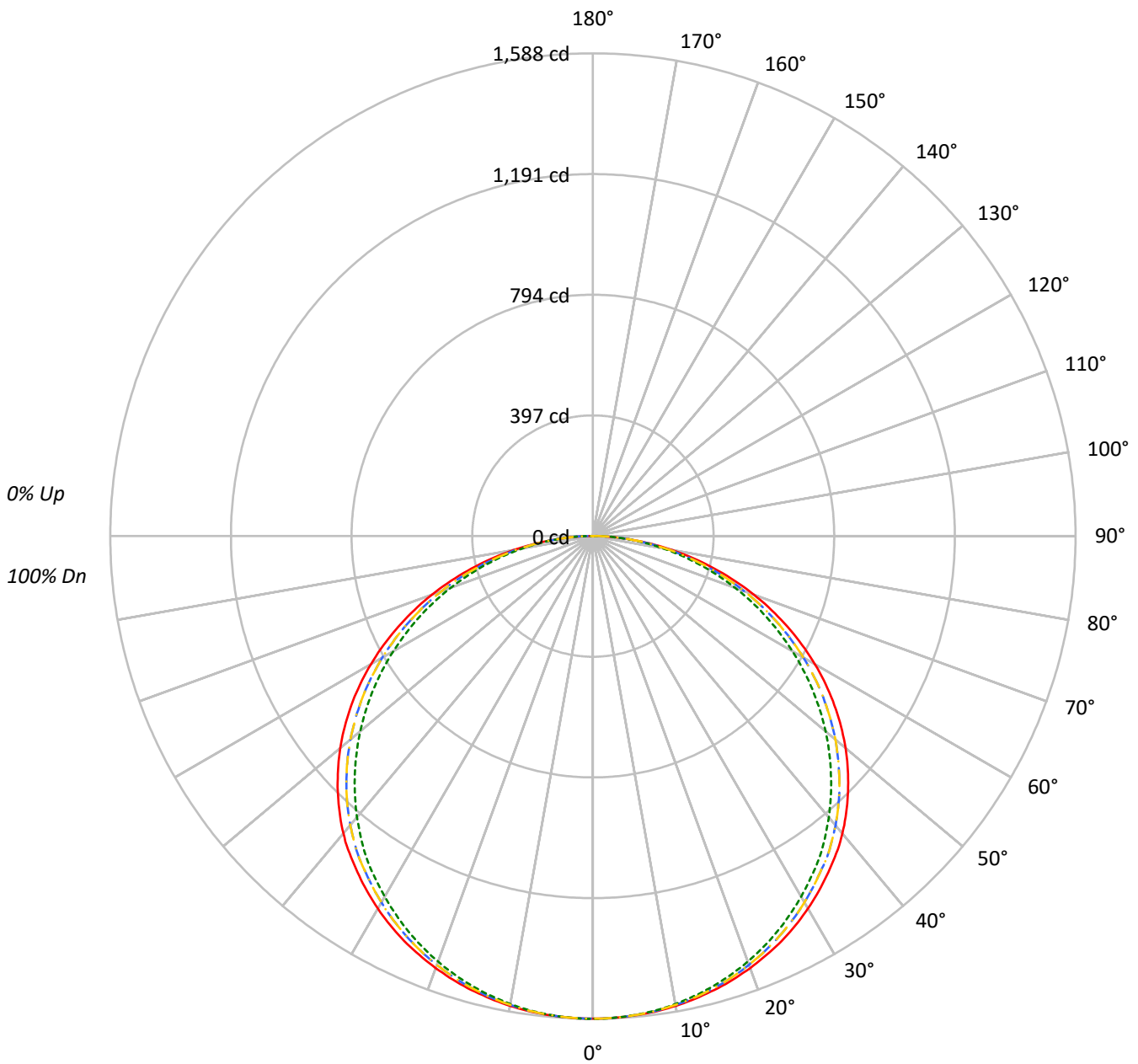
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5000.0 lumens
Efficiency: N/A
Efficacy: 147.1 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): 34
Input Voltage (V): NR
Input Current (A_{in}): 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°	2432	2432	2432	2432
5°	2434	2432	2434	2432
10°	2441	2431	2441	2431
15°	2451	2430	2451	2430
20°	2465	2428	2465	2428
25°	2483	2426	2483	2426
30°	2503	2423	2503	2423
35°	2524	2424	2524	2424
40°	2553	2414	2553	2414
45°	2571	2399	2571	2399
50°	2585	2382	2585	2382
55°	2591	2357	2591	2357
60°	2584	2323	2584	2323
65°	2562	2283	2562	2283
70°	2524	2230	2524	2230
75°	2451	2162	2451	2162
80°	2340	2073	2340	2073
85°	2119	2056	2119	2056

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 60°
 Vertical Angle: 89°
 Luminance: 3089 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.5	3.0
10°-20°	434.8	8.7
20°-30°	669.8	13.4
30°-40°	827.9	16.6
40°-50°	884.9	17.7
50°-60°	826.9	16.5
60°-70°	660.2	13.2
70°-80°	411.1	8.2
80°-90°	133.8	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°	1255.1	25.1
0°-40°	2083.0	41.7
0°-60°	3794.9	75.9
0°-90°	5000.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5000.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1588	1588	1588	1588	1588	
5°	1583	1582	1583	1582	1583	151
15°	1546	1532	1546	1532	1546	437
25°	1470	1436	1470	1436	1470	678
35°	1350	1296	1350	1296	1350	846
45°	1187	1108	1187	1108	1187	916
55°	970	883	970	883	970	866
65°	707	630	707	630	707	699
75°	414	365	414	365	414	437
85°	121	117	121	117	121	128
90°	0	0	0	0	0	8
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°	1587.7	1587.7	1587.7	1587.7	1587.7	1587.7	1587.7	1587.7	1587.7	1587.7	1587.7
1°	1587.7	1587.8	1587.4	1587.4	1587.9	1587.4	1588.2	1587.4	1587.9	1587.4	1587.4
2°	1587.1	1587.3	1586.5	1586.8	1587.3	1586.4	1587.2	1586.4	1587.3	1586.8	1586.5
3°	1586.0	1586.3	1585.6	1585.9	1586.0	1585.4	1585.3	1585.4	1586.0	1585.9	1585.6
4°	1584.7	1584.5	1583.9	1584.1	1584.2	1583.6	1584.1	1583.6	1584.2	1584.1	1583.9
5°	1582.9	1582.9	1582.6	1582.2	1582.0	1581.3	1581.5	1581.3	1582.0	1582.2	1582.6
6°	1581.2	1580.5	1580.2	1579.8	1579.5	1579.0	1578.9	1579.0	1579.5	1579.8	1580.2
7°	1578.9	1578.0	1577.7	1577.3	1576.2	1575.9	1575.8	1575.9	1576.2	1577.3	1577.7
8°	1576.2	1575.5	1574.8	1574.3	1573.0	1572.1	1572.1	1572.1	1573.0	1574.3	1574.8
9°	1573.0	1572.4	1571.3	1570.1	1568.9	1568.1	1568.1	1568.1	1568.9	1570.1	1571.3
10°	1569.4	1568.7	1567.8	1566.2	1564.8	1563.7	1563.3	1563.7	1564.8	1566.2	1567.8
11°	1565.3	1564.9	1563.5	1561.8	1560.0	1558.5	1557.8	1558.5	1560.0	1561.8	1563.5
12°	1560.9	1560.2	1559.2	1556.9	1554.5	1553.0	1552.2	1553.0	1554.5	1556.9	1559.2
13°	1556.1	1555.2	1554.0	1551.4	1548.6	1547.3	1546.1	1547.3	1548.6	1551.4	1554.0
14°	1550.8	1550.0	1548.8	1545.7	1542.5	1540.7	1539.3	1540.7	1542.5	1545.7	1548.8
15°	1545.8	1544.7	1542.8	1539.7	1536.1	1533.7	1532.3	1533.7	1536.1	1539.7	1542.8
16°	1540.1	1538.3	1536.7	1533.0	1528.6	1526.2	1525.0	1526.2	1528.6	1533.0	1536.7
17°	1533.5	1532.6	1529.7	1525.7	1521.0	1518.4	1516.8	1518.4	1521.0	1525.7	1529.7
18°	1526.9	1525.6	1522.8	1517.9	1512.8	1510.1	1508.1	1510.1	1512.8	1517.9	1522.8
19°	1519.7	1518.8	1515.1	1509.9	1504.3	1500.9	1499.4	1500.9	1504.3	1509.9	1515.1
20°	1512.4	1510.8	1507.1	1501.4	1495.5	1491.9	1489.4	1491.9	1495.5	1501.4	1507.1
21°	1504.3	1502.8	1498.5	1492.6	1486.0	1482.1	1479.8	1482.1	1486.0	1492.6	1498.5
22°	1496.1	1494.4	1489.8	1483.0	1476.4	1471.8	1469.3	1471.8	1476.4	1483.0	1489.8
23°	1487.6	1485.7	1480.5	1473.0	1466.2	1461.0	1458.6	1461.0	1466.2	1473.0	1480.5
24°	1478.8	1476.4	1470.5	1462.9	1455.5	1450.0	1447.4	1450.0	1455.5	1462.9	1470.5
25°	1469.5	1466.9	1460.6	1452.3	1443.9	1438.1	1435.5	1438.1	1443.9	1452.3	1460.6
26°	1459.5	1456.7	1450.0	1440.9	1432.8	1425.9	1423.4	1425.9	1432.8	1440.9	1450.0
27°	1449.2	1446.1	1439.2	1429.2	1420.4	1413.4	1410.5	1413.4	1420.4	1429.2	1439.2
28°	1438.3	1435.3	1427.6	1417.2	1407.4	1400.1	1397.2	1400.1	1407.4	1417.2	1427.6
29°	1427.0	1423.7	1415.9	1404.8	1394.6	1386.5	1383.7	1386.5	1394.6	1404.8	1415.9
30°	1415.3	1412.0	1403.5	1391.9	1381.1	1372.5	1370.0	1372.5	1381.1	1391.9	1403.5
31°	1402.6	1399.6	1390.6	1378.3	1366.8	1358.2	1355.6	1358.2	1366.8	1378.3	1390.6
32°	1390.2	1386.9	1377.3	1364.4	1352.7	1343.4	1340.8	1343.4	1352.7	1364.4	1377.3
33°	1377.2	1373.5	1363.6	1350.3	1337.9	1329.1	1326.5	1329.1	1337.9	1350.3	1363.6
34°	1364.1	1359.8	1349.4	1336.1	1323.9	1315.3	1312.1	1315.3	1323.9	1336.1	1349.4
35°	1350.1	1345.8	1335.9	1322.4	1309.8	1300.5	1296.5	1300.5	1309.8	1322.4	1335.9
36°	1335.9	1332.4	1322.4	1308.8	1294.3	1283.7	1279.8	1283.7	1294.3	1308.8	1322.4
37°	1322.2	1319.1	1308.5	1293.1	1277.6	1266.5	1262.2	1266.5	1277.6	1293.1	1308.5
38°	1308.3	1305.3	1292.9	1276.5	1260.4	1248.7	1244.1	1248.7	1260.4	1276.5	1292.9
39°	1293.6	1288.9	1276.3	1259.1	1242.5	1230.5	1225.9	1230.5	1242.5	1259.1	1276.3
40°	1277.0	1272.3	1259.3	1242.0	1224.5	1212.2	1207.6	1212.2	1224.5	1242.0	1259.3
41°	1260.3	1255.0	1242.1	1224.0	1205.6	1193.4	1188.4	1193.4	1205.6	1224.0	1242.1
42°	1242.8	1237.4	1224.2	1205.2	1186.9	1174.0	1168.9	1174.0	1186.9	1205.2	1224.2
43°	1224.7	1219.4	1205.6	1186.5	1167.2	1154.2	1148.8	1154.2	1167.2	1186.5	1205.6
44°	1206.0	1201.0	1186.7	1167.2	1147.7	1133.9	1128.8	1133.9	1147.7	1167.2	1186.7



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CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	1187.1	1181.8	1167.3	1147.0	1127.3	1113.5	1107.5	1113.5	1127.3	1147.0	1167.3
46°	1167.8	1162.4	1147.5	1126.7	1106.9	1092.6	1087.0	1092.6	1106.9	1126.7	1147.5
47°	1147.4	1142.0	1126.7	1106.0	1085.7	1071.3	1065.6	1071.3	1085.7	1106.0	1126.7
48°	1127.4	1121.8	1106.0	1084.9	1064.5	1049.4	1044.0	1049.4	1064.5	1084.9	1106.0
49°	1106.5	1100.5	1084.5	1063.1	1042.5	1027.5	1022.2	1027.5	1042.5	1063.1	1084.5
50°	1085.0	1079.0	1062.9	1041.3	1020.3	1005.3	999.8	1005.3	1020.3	1041.3	1062.9
51°	1062.8	1056.9	1040.7	1018.7	997.7	982.5	976.7	982.5	997.7	1018.7	1040.7
52°	1040.4	1034.5	1018.0	995.9	974.8	959.5	953.5	959.5	974.8	995.9	1018.0
53°	1017.6	1011.6	994.7	972.8	951.5	935.8	929.9	935.8	951.5	972.8	994.7
54°	994.1	988.0	971.3	948.9	927.6	911.9	906.2	911.9	927.6	948.9	971.3
55°	970.2	964.0	947.4	925.0	903.5	888.0	882.6	888.0	903.5	925.0	947.4
56°	945.7	939.7	922.9	900.7	879.3	863.5	858.4	863.5	879.3	900.7	922.9
57°	920.8	914.7	898.1	875.9	854.5	839.1	833.5	839.1	854.5	875.9	898.1
58°	895.5	889.5	872.9	850.7	829.6	814.2	809.1	814.2	829.6	850.7	872.9
59°	869.8	863.4	847.1	825.3	804.1	789.1	783.7	789.1	804.1	825.3	847.1
60°	843.7	837.4	821.4	799.9	778.5	763.7	758.2	763.7	778.5	799.9	821.4
61°	816.9	811.2	795.1	773.7	752.8	738.0	732.6	738.0	752.8	773.7	795.1
62°	789.9	784.4	768.4	747.1	726.9	712.4	707.1	712.4	726.9	747.1	768.4
63°	762.1	756.7	741.4	720.8	700.3	686.2	681.2	686.2	700.3	720.8	741.4
64°	734.7	729.2	714.2	693.7	673.9	660.1	655.2	660.1	673.9	693.7	714.2
65°	707.0	701.1	686.6	666.6	649.1	634.6	629.9	634.6	649.1	666.6	686.6
66°	678.4	672.8	658.5	639.2	622.3	609.2	604.2	609.2	622.3	639.2	658.5
67°	650.6	644.6	631.2	612.9	595.5	582.7	577.9	582.7	595.5	612.9	631.2
68°	621.9	616.4	603.5	586.0	568.1	555.9	551.5	555.9	568.1	586.0	603.5
69°	593.2	588.4	575.3	558.1	540.9	529.3	524.7	529.3	540.9	558.1	575.3
70°	563.7	559.0	546.5	529.9	513.7	502.4	498.0	502.4	513.7	529.9	546.5
71°	534.1	529.6	517.7	501.9	486.2	475.4	471.2	475.4	486.2	501.9	517.7
72°	504.3	500.1	488.7	473.8	459.0	448.8	444.5	448.8	459.0	473.8	488.7
73°	474.2	470.4	459.6	445.4	431.4	421.8	418.0	421.8	431.4	445.4	459.6
74°	444.3	440.8	430.7	417.4	404.2	395.0	391.6	395.0	404.2	417.4	430.7
75°	414.2	410.9	401.6	389.2	376.8	368.4	365.4	368.4	376.8	389.2	401.6
76°	384.2	381.0	372.5	361.0	349.6	341.7	338.7	341.7	349.6	361.0	372.5
77°	354.2	351.4	343.6	333.1	322.8	315.3	312.5	315.3	322.8	333.1	343.6
78°	324.4	321.7	314.9	305.2	295.6	288.9	286.4	288.9	295.6	305.2	314.9
79°	294.9	292.5	286.2	277.5	268.9	262.9	260.6	262.9	268.9	277.5	286.2
80°	265.3	263.3	257.7	250.0	242.3	237.4	235.0	237.4	242.3	250.0	257.7
81°	235.5	234.2	229.7	222.9	216.4	212.1	210.4	212.1	216.4	222.9	229.7
82°	206.2	205.1	201.7	196.1	190.9	187.7	186.1	187.7	190.9	196.1	201.7
83°	177.1	176.4	174.2	170.2	166.2	163.8	162.7	163.8	166.2	170.2	174.2
84°	148.8	148.2	146.7	144.7	142.0	140.4	139.4	140.4	142.0	144.7	146.7
85°	120.6	120.4	119.9	119.7	118.7	117.6	117.0	117.6	118.7	119.7	119.9
86°	94.0	94.0	95.1	96.3	96.2	95.4	94.8	95.4	96.2	96.3	95.1
87°	68.5	69.1	71.8	73.8	74.4	73.5	72.8	73.5	74.4	73.8	71.8
88°	46.3	47.7	50.6	52.9	53.9	53.3	53.1	53.3	53.9	52.9	50.6
89°	27.1	28.9	31.5	33.5	35.2	35.1	34.3	35.1	35.2	33.5	31.5



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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: P973028
 CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-HI-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: P973028
CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-HI-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: P973028
 CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-HI-3500K

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	1587.7	1587.7	1587.7	1587.7	1587.7	1587.7	1587.7	1587.7	1587.7	1587.7	1587.7
1°	1587.8	1587.7	1587.8	1587.4	1587.4	1587.9	1587.4	1588.2	1587.4	1587.9	1587.4
2°	1587.3	1587.1	1587.3	1586.5	1586.8	1587.3	1586.4	1587.2	1586.4	1587.3	1586.8
3°	1586.3	1586.0	1586.3	1585.6	1585.9	1586.0	1585.4	1585.3	1585.4	1586.0	1585.9
4°	1584.5	1584.7	1584.5	1583.9	1584.1	1584.2	1583.6	1584.1	1583.6	1584.2	1584.1
5°	1582.9	1582.9	1582.9	1582.6	1582.2	1582.0	1581.3	1581.5	1581.3	1582.0	1582.2
6°	1580.5	1581.2	1580.5	1580.2	1579.8	1579.5	1579.0	1578.9	1579.0	1579.5	1579.8
7°	1578.0	1578.9	1578.0	1577.7	1577.3	1576.2	1575.9	1575.8	1575.9	1576.2	1577.3
8°	1575.5	1576.2	1575.5	1574.8	1574.3	1573.0	1572.1	1572.1	1572.1	1573.0	1574.3
9°	1572.4	1573.0	1572.4	1571.3	1570.1	1568.9	1568.1	1568.1	1568.1	1568.9	1570.1
10°	1568.7	1569.4	1568.7	1567.8	1566.2	1564.8	1563.7	1563.3	1563.7	1564.8	1566.2
11°	1564.9	1565.3	1564.9	1563.5	1561.8	1560.0	1558.5	1557.8	1558.5	1560.0	1561.8
12°	1560.2	1560.9	1560.2	1559.2	1556.9	1554.5	1553.0	1552.2	1553.0	1554.5	1556.9
13°	1555.2	1556.1	1555.2	1554.0	1551.4	1548.6	1547.3	1546.1	1547.3	1548.6	1551.4
14°	1550.0	1550.8	1550.0	1548.8	1545.7	1542.5	1540.7	1539.3	1540.7	1542.5	1545.7
15°	1544.7	1545.8	1544.7	1542.8	1539.7	1536.1	1533.7	1532.3	1533.7	1536.1	1539.7
16°	1538.3	1540.1	1538.3	1536.7	1533.0	1528.6	1526.2	1525.0	1526.2	1528.6	1533.0
17°	1532.6	1533.5	1532.6	1529.7	1525.7	1521.0	1518.4	1516.8	1518.4	1521.0	1525.7
18°	1525.6	1526.9	1525.6	1522.8	1517.9	1512.8	1510.1	1508.1	1510.1	1512.8	1517.9
19°	1518.8	1519.7	1518.8	1515.1	1509.9	1504.3	1500.9	1499.4	1500.9	1504.3	1509.9
20°	1510.8	1512.4	1510.8	1507.1	1501.4	1495.5	1491.9	1489.4	1491.9	1495.5	1501.4
21°	1502.8	1504.3	1502.8	1498.5	1492.6	1486.0	1482.1	1479.8	1482.1	1486.0	1492.6
22°	1494.4	1496.1	1494.4	1489.8	1483.0	1476.4	1471.8	1469.3	1471.8	1476.4	1483.0
23°	1485.7	1487.6	1485.7	1480.5	1473.0	1466.2	1461.0	1458.6	1461.0	1466.2	1473.0
24°	1476.4	1478.8	1476.4	1470.5	1462.9	1455.5	1450.0	1447.4	1450.0	1455.5	1462.9
25°	1466.9	1469.5	1466.9	1460.6	1452.3	1443.9	1438.1	1435.5	1438.1	1443.9	1452.3
26°	1456.7	1459.5	1456.7	1450.0	1440.9	1432.8	1425.9	1423.4	1425.9	1432.8	1440.9
27°	1446.1	1449.2	1446.1	1439.2	1429.2	1420.4	1413.4	1410.5	1413.4	1420.4	1429.2
28°	1435.3	1438.3	1435.3	1427.6	1417.2	1407.4	1400.1	1397.2	1400.1	1407.4	1417.2
29°	1423.7	1427.0	1423.7	1415.9	1404.8	1394.6	1386.5	1383.7	1386.5	1394.6	1404.8
30°	1412.0	1415.3	1412.0	1403.5	1391.9	1381.1	1372.5	1370.0	1372.5	1381.1	1391.9
31°	1399.6	1402.6	1399.6	1390.6	1378.3	1366.8	1358.2	1355.6	1358.2	1366.8	1378.3
32°	1386.9	1390.2	1386.9	1377.3	1364.4	1352.7	1343.4	1340.8	1343.4	1352.7	1364.4
33°	1373.5	1377.2	1373.5	1363.6	1350.3	1337.9	1329.1	1326.5	1329.1	1337.9	1350.3
34°	1359.8	1364.1	1359.8	1349.4	1336.1	1323.9	1315.3	1312.1	1315.3	1323.9	1336.1
35°	1345.8	1350.1	1345.8	1335.9	1322.4	1309.8	1300.5	1296.5	1300.5	1309.8	1322.4
36°	1332.4	1335.9	1332.4	1322.4	1308.8	1294.3	1283.7	1279.8	1283.7	1294.3	1308.8
37°	1319.1	1322.2	1319.1	1308.5	1293.1	1277.6	1266.5	1262.2	1266.5	1277.6	1293.1
38°	1305.3	1308.3	1305.3	1292.9	1276.5	1260.4	1248.7	1244.1	1248.7	1260.4	1276.5
39°	1288.9	1293.6	1288.9	1276.3	1259.1	1242.5	1230.5	1225.9	1230.5	1242.5	1259.1
40°	1272.3	1277.0	1272.3	1259.3	1242.0	1224.5	1212.2	1207.6	1212.2	1224.5	1242.0
41°	1255.0	1260.3	1255.0	1242.1	1224.0	1205.6	1193.4	1188.4	1193.4	1205.6	1224.0
42°	1237.4	1242.8	1237.4	1224.2	1205.2	1186.9	1174.0	1168.9	1174.0	1186.9	1205.2
43°	1219.4	1224.7	1219.4	1205.6	1186.5	1167.2	1154.2	1148.8	1154.2	1167.2	1186.5
44°	1201.0	1206.0	1201.0	1186.7	1167.2	1147.7	1133.9	1128.8	1133.9	1147.7	1167.2



TEST NUMBER: P973028
 CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-HI-3500K

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	1181.8	1187.1	1181.8	1167.3	1147.0	1127.3	1113.5	1107.5	1113.5	1127.3	1147.0
46°	1162.4	1167.8	1162.4	1147.5	1126.7	1106.9	1092.6	1087.0	1092.6	1106.9	1126.7
47°	1142.0	1147.4	1142.0	1126.7	1106.0	1085.7	1071.3	1065.6	1071.3	1085.7	1106.0
48°	1121.8	1127.4	1121.8	1106.0	1084.9	1064.5	1049.4	1044.0	1049.4	1064.5	1084.9
49°	1100.5	1106.5	1100.5	1084.5	1063.1	1042.5	1027.5	1022.2	1027.5	1042.5	1063.1
50°	1079.0	1085.0	1079.0	1062.9	1041.3	1020.3	1005.3	999.8	1005.3	1020.3	1041.3
51°	1056.9	1062.8	1056.9	1040.7	1018.7	997.7	982.5	976.7	982.5	997.7	1018.7
52°	1034.5	1040.4	1034.5	1018.0	995.9	974.8	959.5	953.5	959.5	974.8	995.9
53°	1011.6	1017.6	1011.6	994.7	972.8	951.5	935.8	929.9	935.8	951.5	972.8
54°	988.0	994.1	988.0	971.3	948.9	927.6	911.9	906.2	911.9	927.6	948.9
55°	964.0	970.2	964.0	947.4	925.0	903.5	888.0	882.6	888.0	903.5	925.0
56°	939.7	945.7	939.7	922.9	900.7	879.3	863.5	858.4	863.5	879.3	900.7
57°	914.7	920.8	914.7	898.1	875.9	854.5	839.1	833.5	839.1	854.5	875.9
58°	889.5	895.5	889.5	872.9	850.7	829.6	814.2	809.1	814.2	829.6	850.7
59°	863.4	869.8	863.4	847.1	825.3	804.1	789.1	783.7	789.1	804.1	825.3
60°	837.4	843.7	837.4	821.4	799.9	778.5	763.7	758.2	763.7	778.5	799.9
61°	811.2	816.9	811.2	795.1	773.7	752.8	738.0	732.6	738.0	752.8	773.7
62°	784.4	789.9	784.4	768.4	747.1	726.9	712.4	707.1	712.4	726.9	747.1
63°	756.7	762.1	756.7	741.4	720.8	700.3	686.2	681.2	686.2	700.3	720.8
64°	729.2	734.7	729.2	714.2	693.7	673.9	660.1	655.2	660.1	673.9	693.7
65°	701.1	707.0	701.1	686.6	666.6	649.1	634.6	629.9	634.6	649.1	666.6
66°	672.8	678.4	672.8	658.5	639.2	622.3	609.2	604.2	609.2	622.3	639.2
67°	644.6	650.6	644.6	631.2	612.9	595.5	582.7	577.9	582.7	595.5	612.9
68°	616.4	621.9	616.4	603.5	586.0	568.1	555.9	551.5	555.9	568.1	586.0
69°	588.4	593.2	588.4	575.3	558.1	540.9	529.3	524.7	529.3	540.9	558.1
70°	559.0	563.7	559.0	546.5	529.9	513.7	502.4	498.0	502.4	513.7	529.9
71°	529.6	534.1	529.6	517.7	501.9	486.2	475.4	471.2	475.4	486.2	501.9
72°	500.1	504.3	500.1	488.7	473.8	459.0	448.8	444.5	448.8	459.0	473.8
73°	470.4	474.2	470.4	459.6	445.4	431.4	421.8	418.0	421.8	431.4	445.4
74°	440.8	444.3	440.8	430.7	417.4	404.2	395.0	391.6	395.0	404.2	417.4
75°	410.9	414.2	410.9	401.6	389.2	376.8	368.4	365.4	368.4	376.8	389.2
76°	381.0	384.2	381.0	372.5	361.0	349.6	341.7	338.7	341.7	349.6	361.0
77°	351.4	354.2	351.4	343.6	333.1	322.8	315.3	312.5	315.3	322.8	333.1
78°	321.7	324.4	321.7	314.9	305.2	295.6	288.9	286.4	288.9	295.6	305.2
79°	292.5	294.9	292.5	286.2	277.5	268.9	262.9	260.6	262.9	268.9	277.5
80°	263.3	265.3	263.3	257.7	250.0	242.3	237.4	235.0	237.4	242.3	250.0
81°	234.2	235.5	234.2	229.7	222.9	216.4	212.1	210.4	212.1	216.4	222.9
82°	205.1	206.2	205.1	201.7	196.1	190.9	187.7	186.1	187.7	190.9	196.1
83°	176.4	177.1	176.4	174.2	170.2	166.2	163.8	162.7	163.8	166.2	170.2
84°	148.2	148.8	148.2	146.7	144.7	142.0	140.4	139.4	140.4	142.0	144.7
85°	120.4	120.6	120.4	119.9	119.7	118.7	117.6	117.0	117.6	118.7	119.7
86°	94.0	94.0	94.0	95.1	96.3	96.2	95.4	94.8	95.4	96.2	96.3
87°	69.1	68.5	69.1	71.8	73.8	74.4	73.5	72.8	73.5	74.4	73.8
88°	47.7	46.3	47.7	50.6	52.9	53.9	53.3	53.1	53.3	53.9	52.9
89°	28.9	27.1	28.9	31.5	33.5	35.2	35.1	34.3	35.1	35.2	33.5



TEST NUMBER: P973028
 CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-HI-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: P973028
 CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-HI-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: P973028
CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-HI-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: P973028
CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-HI-3500K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	1587.7	1587.7	1587.7
1°	1587.4	1587.8	1587.7
2°	1586.5	1587.3	1587.1
3°	1585.6	1586.3	1586.0
4°	1583.9	1584.5	1584.7
5°	1582.6	1582.9	1582.9
6°	1580.2	1580.5	1581.2
7°	1577.7	1578.0	1578.9
8°	1574.8	1575.5	1576.2
9°	1571.3	1572.4	1573.0
10°	1567.8	1568.7	1569.4
11°	1563.5	1564.9	1565.3
12°	1559.2	1560.2	1560.9
13°	1554.0	1555.2	1556.1
14°	1548.8	1550.0	1550.8
15°	1542.8	1544.7	1545.8
16°	1536.7	1538.3	1540.1
17°	1529.7	1532.6	1533.5
18°	1522.8	1525.6	1526.9
19°	1515.1	1518.8	1519.7
20°	1507.1	1510.8	1512.4
21°	1498.5	1502.8	1504.3
22°	1489.8	1494.4	1496.1
23°	1480.5	1485.7	1487.6
24°	1470.5	1476.4	1478.8
25°	1460.6	1466.9	1469.5
26°	1450.0	1456.7	1459.5
27°	1439.2	1446.1	1449.2
28°	1427.6	1435.3	1438.3
29°	1415.9	1423.7	1427.0
30°	1403.5	1412.0	1415.3
31°	1390.6	1399.6	1402.6
32°	1377.3	1386.9	1390.2
33°	1363.6	1373.5	1377.2
34°	1349.4	1359.8	1364.1
35°	1335.9	1345.8	1350.1
36°	1322.4	1332.4	1335.9
37°	1308.5	1319.1	1322.2
38°	1292.9	1305.3	1308.3
39°	1276.3	1288.9	1293.6
40°	1259.3	1272.3	1277.0
41°	1242.1	1255.0	1260.3
42°	1224.2	1237.4	1242.8
43°	1205.6	1219.4	1224.7
44°	1186.7	1201.0	1206.0



TEST NUMBER: P973028
CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-HI-3500K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	1167.3	1181.8	1187.1
46°	1147.5	1162.4	1167.8
47°	1126.7	1142.0	1147.4
48°	1106.0	1121.8	1127.4
49°	1084.5	1100.5	1106.5
50°	1062.9	1079.0	1085.0
51°	1040.7	1056.9	1062.8
52°	1018.0	1034.5	1040.4
53°	994.7	1011.6	1017.6
54°	971.3	988.0	994.1
55°	947.4	964.0	970.2
56°	922.9	939.7	945.7
57°	898.1	914.7	920.8
58°	872.9	889.5	895.5
59°	847.1	863.4	869.8
60°	821.4	837.4	843.7
61°	795.1	811.2	816.9
62°	768.4	784.4	789.9
63°	741.4	756.7	762.1
64°	714.2	729.2	734.7
65°	686.6	701.1	707.0
66°	658.5	672.8	678.4
67°	631.2	644.6	650.6
68°	603.5	616.4	621.9
69°	575.3	588.4	593.2
70°	546.5	559.0	563.7
71°	517.7	529.6	534.1
72°	488.7	500.1	504.3
73°	459.6	470.4	474.2
74°	430.7	440.8	444.3
75°	401.6	410.9	414.2
76°	372.5	381.0	384.2
77°	343.6	351.4	354.2
78°	314.9	321.7	324.4
79°	286.2	292.5	294.9
80°	257.7	263.3	265.3
81°	229.7	234.2	235.5
82°	201.7	205.1	206.2
83°	174.2	176.4	177.1
84°	146.7	148.2	148.8
85°	119.9	120.4	120.6
86°	95.1	94.0	94.0
87°	71.8	69.1	68.5
88°	50.6	47.7	46.3
89°	31.5	28.9	27.1



TEST NUMBER: P973028
CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-HI-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: P973028
CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-HI-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: P973028
CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-HI-3500K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)