

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: HALO

Report Number: P640155

Luminaire Tested: LCR630RD9FSE010-42W-2700K

Issue Date: 2/13/2023

Test Information

Test Method: LM-79-2019
Report Number: P640155
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2208386B001)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: LCR630RD9FSE010-42W-2700K
Description: LCR 6
Light Source: 2700K CCT, 93 CRI LEDS
Ballast/Driver: -

Summary

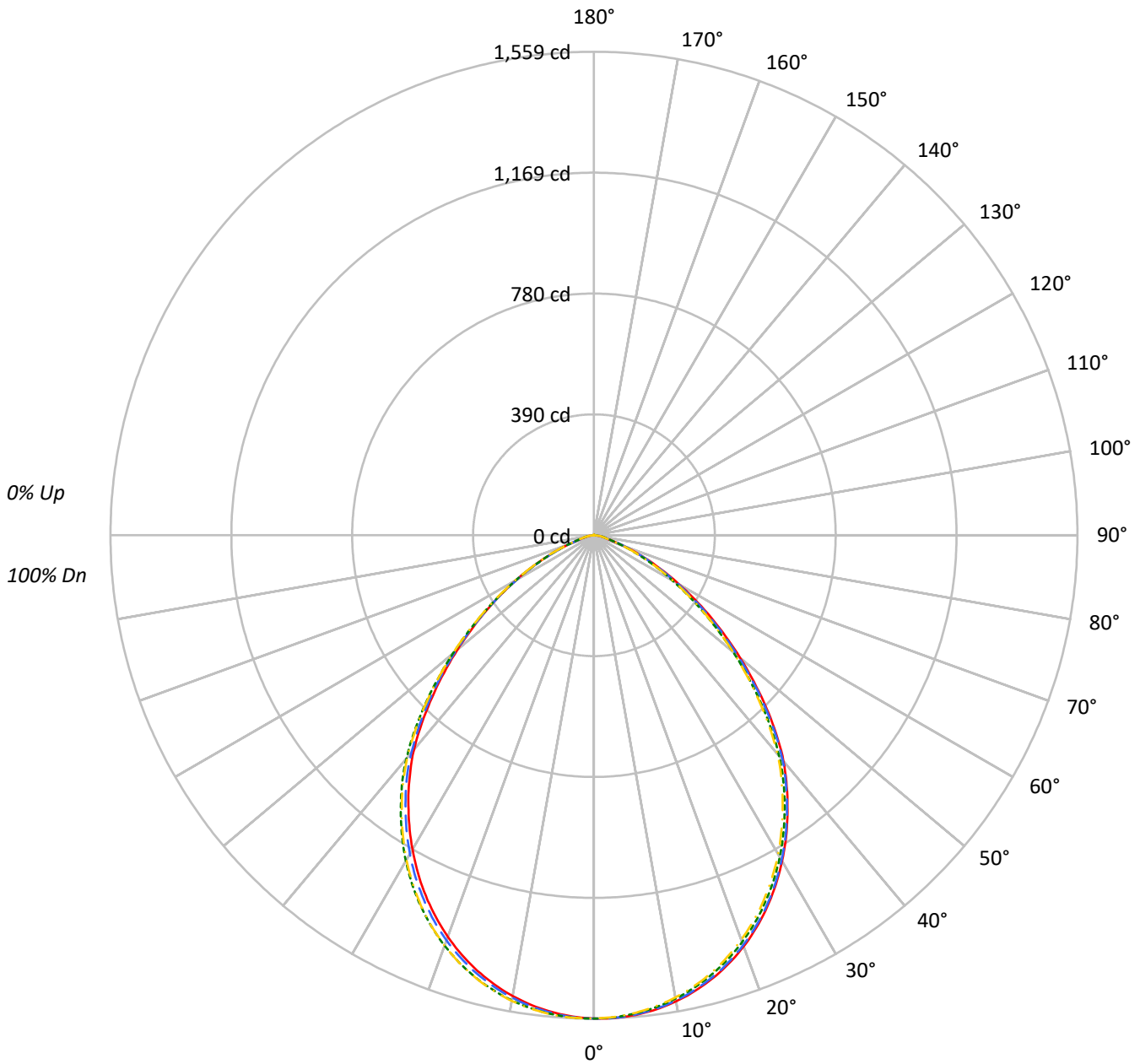
Lumens per Lamp: N/A
Luminaire Lumens: 3060.0 lumens
Efficiency: N/A
Efficacy: 33.3 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.16 / 1.22
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 91.9
Input Voltage (V): 120
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: P640155
CATALOG NUMBER: LCR630RD9FSE010-42W-2700K

Luminous Intensity Polar Plot



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



TEST NUMBER: P640155
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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 |
| RCR | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | |
| 1 | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99 | 101 | 98 | 96 | 97 | 95 | 93 | 94 | 92 | 90 | 89 | | |
| 2 | 103 | 96 | 91 | 86 | 100 | 94 | 89 | 85 | 91 | 87 | 83 | 88 | 84 | 81 | 85 | 82 | 79 | 77 | | |
| 3 | 95 | 86 | 79 | 74 | 93 | 85 | 78 | 73 | 82 | 77 | 72 | 79 | 75 | 71 | 77 | 73 | 70 | 68 | | |
| 4 | 88 | 78 | 70 | 64 | 86 | 77 | 69 | 64 | 74 | 68 | 63 | 72 | 67 | 62 | 70 | 65 | 62 | 60 | | |
| 5 | 82 | 70 | 63 | 57 | 80 | 69 | 62 | 56 | 67 | 61 | 56 | 65 | 60 | 55 | 64 | 59 | 55 | 53 | | |
| 6 | 76 | 64 | 56 | 50 | 74 | 63 | 56 | 50 | 62 | 55 | 50 | 60 | 54 | 49 | 58 | 53 | 49 | 47 | | |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 50 | 45 | 56 | 50 | 45 | 55 | 49 | 44 | 54 | 48 | 44 | 42 | | |
| 8 | 66 | 54 | 46 | 41 | 65 | 53 | 46 | 41 | 52 | 45 | 41 | 51 | 45 | 40 | 50 | 44 | 40 | 38 | | |
| 9 | 62 | 50 | 42 | 37 | 61 | 49 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 37 | 46 | 41 | 37 | 35 | | |
| 10 | 58 | 46 | 39 | 34 | 57 | 46 | 39 | 34 | 45 | 38 | 34 | 44 | 38 | 34 | 43 | 37 | 34 | 32 | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° | 270° |
|-----|-------|-------|-------|-------|
| 0° | 85443 | 85443 | 85443 | 85443 |
| 5° | 85439 | 85147 | 84944 | 85329 |
| 10° | 84957 | 84440 | 83983 | 84785 |
| 15° | 83939 | 83230 | 82492 | 83763 |
| 20° | 82304 | 81458 | 80373 | 82164 |
| 25° | 79964 | 79009 | 77581 | 79861 |
| 30° | 76828 | 75847 | 74062 | 76778 |
| 35° | 72846 | 71755 | 69807 | 72652 |
| 40° | 68056 | 66482 | 64614 | 67333 |
| 45° | 60882 | 58735 | 57161 | 59626 |
| 50° | 52544 | 49977 | 48996 | 50608 |
| 55° | 43841 | 40983 | 40515 | 41327 |
| 60° | 34844 | 32168 | 31840 | 32026 |
| 65° | 25943 | 23738 | 22999 | 22882 |
| 70° | 16862 | 15900 | 14345 | 14281 |
| 75° | 9722 | 10188 | 8557 | 8960 |
| 80° | 8303 | 8808 | 7135 | 7608 |
| 85° | 6604 | 7674 | 4780 | 5724 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 60882 cd/sqm



TEST NUMBER: P640155
 CATALOG NUMBER: LCR630RD9FSE010-42W-2700K

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------------|---------------|--------------|
| 0°-10° | 146.9 | 4.8 |
| 10°-20° | 413.6 | 13.5 |
| 20°-30° | 601.0 | 19.6 |
| 30°-40° | 668.6 | 21.8 |
| 40°-50° | 586.2 | 19.2 |
| 50°-60° | 390.9 | 12.8 |
| 60°-70° | 185.4 | 6.1 |
| 70°-80° | 53.4 | 1.7 |
| 80°-90° | 11.7 | 0.4 |
| 90°-100° | 0.1 | 0.0 |
| 100°-110° | 0.2 | 0.0 |
| 110°-120° | 0.3 | 0.0 |
| 120°-130° | 0.3 | 0.0 |
| 130°-140° | 0.4 | 0.0 |
| 140°-150° | 0.4 | 0.0 |
| 150°-160° | 0.4 | 0.0 |
| 160°-170° | 0.2 | 0.0 |
| 170°-180° | 0.1 | 0.0 |
| 0°-30° | 1161.5 | 38.0 |
| 0°-40° | 1830.0 | 59.8 |
| 0°-60° | 2807.1 | 91.7 |
| 0°-90° | 3057.6 | 99.9 |
| 90°-120° | 0.5 | 0.0 |
| 90°-150° | 1.7 | 0.1 |
| 90°-180° | 2.0 | 0.1 |
| 0°-180° | 3060.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0° | 1559 | 1559 | 1559 | 1559 | 1559 | |
| 5° | 1553 | 1547 | 1544 | 1551 | 1553 | 147 |
| 15° | 1479 | 1466 | 1454 | 1476 | 1479 | 416 |
| 25° | 1322 | 1306 | 1283 | 1320 | 1322 | 608 |
| 35° | 1088 | 1072 | 1043 | 1086 | 1088 | 679 |
| 45° | 785 | 758 | 737 | 769 | 785 | 604 |
| 55° | 459 | 429 | 424 | 432 | 459 | 411 |
| 65° | 200 | 183 | 177 | 176 | 200 | 201 |
| 75° | 46 | 48 | 40 | 42 | 46 | 56 |
| 85° | 10 | 12 | 8 | 9 | 10 | 12 |
| 90° | 0 | 0 | 0 | 0 | 0 | 1 |
| 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° | 1 | 0 | 0 | 0 | 1 | 0 |
| 145° | 1 | 1 | 1 | 1 | 1 | 0 |
| 155° | 1 | 1 | 1 | 1 | 1 | 0 |
| 165° | 1 | 1 | 1 | 1 | 1 | 0 |
| 175° | 1 | 1 | 1 | 1 | 1 | 0 |
| 180° | 1 | 1 | 1 | 1 | 1 | |



TEST NUMBER: P640155

CATALOG NUMBER: LCR630RD9FSE010-42W-2700K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1558.6 | 1558.6 | 1558.6 | 1558.6 | 1558.6 | 1558.6 | 1558.6 | 1558.6 | 1558.6 | 1558.6 | 1558.6 |
| 0.5° | 1558.8 | 1558.9 | 1558.7 | 1558.5 | 1558.3 | 1558.4 | 1558.0 | 1558.0 | 1557.9 | 1558.4 | 1558.4 |
| 1° | 1558.7 | 1558.8 | 1558.7 | 1558.1 | 1558.0 | 1557.9 | 1557.3 | 1557.2 | 1557.2 | 1557.6 | 1557.8 |
| 1.5° | 1558.6 | 1558.9 | 1558.5 | 1557.8 | 1557.2 | 1557.1 | 1556.7 | 1556.0 | 1556.1 | 1556.7 | 1556.9 |
| 2° | 1558.5 | 1558.5 | 1558.2 | 1557.4 | 1556.6 | 1556.4 | 1555.6 | 1554.8 | 1555.0 | 1555.5 | 1556.2 |
| 2.5° | 1557.9 | 1558.0 | 1557.5 | 1556.3 | 1555.5 | 1555.1 | 1554.3 | 1553.4 | 1553.4 | 1554.6 | 1555.2 |
| 3° | 1557.1 | 1557.7 | 1556.7 | 1555.6 | 1554.3 | 1553.4 | 1553.0 | 1552.0 | 1551.9 | 1552.8 | 1554.2 |
| 3.5° | 1556.4 | 1556.0 | 1555.7 | 1554.4 | 1552.7 | 1552.1 | 1551.7 | 1549.8 | 1550.0 | 1551.1 | 1552.6 |
| 4° | 1555.1 | 1554.9 | 1554.0 | 1552.9 | 1551.2 | 1550.4 | 1549.6 | 1548.0 | 1548.2 | 1549.2 | 1550.6 |
| 4.5° | 1554.0 | 1553.6 | 1552.6 | 1551.5 | 1549.1 | 1548.4 | 1547.9 | 1545.9 | 1546.0 | 1547.5 | 1548.6 |
| 5° | 1552.6 | 1552.0 | 1550.9 | 1549.6 | 1547.3 | 1546.5 | 1545.8 | 1543.6 | 1543.6 | 1544.6 | 1546.4 |
| 5.5° | 1550.7 | 1550.3 | 1549.1 | 1547.6 | 1545.2 | 1544.1 | 1543.2 | 1541.0 | 1540.9 | 1542.7 | 1544.2 |
| 6° | 1548.8 | 1548.2 | 1547.1 | 1545.5 | 1542.7 | 1541.5 | 1540.7 | 1538.1 | 1538.2 | 1540.1 | 1541.7 |
| 6.5° | 1546.6 | 1545.6 | 1544.8 | 1543.1 | 1540.0 | 1539.0 | 1538.0 | 1535.5 | 1535.5 | 1537.3 | 1539.0 |
| 7° | 1544.4 | 1543.5 | 1542.4 | 1540.6 | 1537.4 | 1536.3 | 1534.8 | 1531.9 | 1532.0 | 1533.9 | 1536.3 |
| 7.5° | 1541.8 | 1541.0 | 1539.8 | 1537.8 | 1534.7 | 1533.2 | 1531.3 | 1528.8 | 1528.5 | 1530.8 | 1533.0 |
| 8° | 1539.0 | 1537.6 | 1537.0 | 1534.9 | 1531.4 | 1530.2 | 1528.4 | 1525.1 | 1525.2 | 1527.1 | 1529.7 |
| 8.5° | 1536.4 | 1535.4 | 1533.9 | 1531.8 | 1528.3 | 1526.8 | 1524.8 | 1521.4 | 1521.4 | 1523.5 | 1526.4 |
| 9° | 1533.0 | 1532.0 | 1530.6 | 1528.3 | 1524.6 | 1523.3 | 1521.0 | 1517.3 | 1517.3 | 1519.6 | 1522.8 |
| 9.5° | 1529.6 | 1528.3 | 1527.2 | 1525.0 | 1520.9 | 1519.1 | 1517.4 | 1513.1 | 1513.2 | 1515.7 | 1518.6 |
| 10° | 1526.2 | 1524.9 | 1523.3 | 1521.0 | 1516.9 | 1515.2 | 1513.2 | 1508.7 | 1508.7 | 1511.3 | 1514.5 |
| 10.5° | 1522.4 | 1521.2 | 1519.5 | 1517.3 | 1512.8 | 1510.9 | 1508.8 | 1504.0 | 1504.4 | 1507.0 | 1510.4 |
| 11° | 1518.5 | 1517.0 | 1515.3 | 1513.3 | 1508.5 | 1506.5 | 1504.4 | 1498.9 | 1499.3 | 1502.1 | 1505.9 |
| 11.5° | 1514.4 | 1512.7 | 1511.1 | 1508.5 | 1503.9 | 1501.7 | 1499.7 | 1494.1 | 1494.1 | 1497.1 | 1501.1 |
| 12° | 1509.7 | 1507.9 | 1506.5 | 1504.0 | 1499.2 | 1497.0 | 1494.8 | 1488.7 | 1489.0 | 1492.0 | 1496.2 |
| 12.5° | 1505.0 | 1504.1 | 1501.8 | 1499.5 | 1494.4 | 1492.1 | 1489.4 | 1483.5 | 1483.8 | 1486.8 | 1491.1 |
| 13° | 1500.4 | 1498.5 | 1496.6 | 1494.6 | 1489.2 | 1486.7 | 1484.4 | 1478.0 | 1477.9 | 1481.2 | 1485.7 |
| 13.5° | 1495.5 | 1493.9 | 1491.7 | 1489.4 | 1484.0 | 1481.2 | 1478.7 | 1472.1 | 1472.2 | 1475.8 | 1480.2 |
| 14° | 1490.3 | 1488.2 | 1486.4 | 1484.1 | 1478.3 | 1475.7 | 1473.1 | 1465.9 | 1465.9 | 1469.8 | 1474.4 |
| 14.5° | 1484.9 | 1482.8 | 1480.9 | 1478.5 | 1472.7 | 1470.0 | 1466.9 | 1459.6 | 1459.8 | 1463.6 | 1468.6 |
| 15° | 1479.0 | 1476.8 | 1475.4 | 1472.9 | 1466.5 | 1463.9 | 1460.8 | 1453.3 | 1453.5 | 1457.7 | 1462.5 |
| 15.5° | 1473.1 | 1471.8 | 1469.2 | 1466.8 | 1460.5 | 1457.6 | 1454.7 | 1446.7 | 1446.8 | 1450.6 | 1456.1 |
| 16° | 1467.1 | 1465.6 | 1463.2 | 1460.7 | 1454.0 | 1451.4 | 1448.1 | 1440.0 | 1439.8 | 1443.9 | 1449.4 |
| 16.5° | 1460.7 | 1458.8 | 1457.0 | 1454.5 | 1447.7 | 1444.8 | 1441.3 | 1432.8 | 1433.0 | 1437.0 | 1442.9 |
| 17° | 1454.3 | 1452.5 | 1450.3 | 1447.8 | 1441.1 | 1437.8 | 1434.3 | 1425.5 | 1425.5 | 1430.0 | 1435.6 |
| 17.5° | 1447.5 | 1446.3 | 1443.5 | 1441.4 | 1434.2 | 1430.7 | 1427.0 | 1418.1 | 1418.2 | 1422.7 | 1428.6 |
| 18° | 1440.6 | 1439.0 | 1436.8 | 1434.5 | 1426.7 | 1423.7 | 1419.7 | 1410.4 | 1410.4 | 1414.6 | 1421.3 |
| 18.5° | 1433.6 | 1433.0 | 1429.5 | 1427.0 | 1419.5 | 1416.2 | 1412.3 | 1402.7 | 1402.3 | 1407.1 | 1413.8 |
| 19° | 1426.1 | 1424.6 | 1421.9 | 1419.7 | 1412.0 | 1408.6 | 1404.3 | 1394.6 | 1394.1 | 1398.9 | 1405.8 |
| 19.5° | 1418.6 | 1417.1 | 1414.5 | 1412.1 | 1404.4 | 1400.8 | 1396.8 | 1386.5 | 1386.1 | 1391.4 | 1398.3 |
| 20° | 1410.8 | 1408.7 | 1406.5 | 1404.4 | 1396.3 | 1392.9 | 1388.4 | 1378.2 | 1377.7 | 1382.9 | 1390.0 |
| 20.5° | 1403.1 | 1401.1 | 1398.8 | 1396.5 | 1388.1 | 1384.8 | 1380.1 | 1369.5 | 1369.0 | 1374.5 | 1381.8 |
| 21° | 1394.9 | 1392.4 | 1390.4 | 1388.6 | 1380.0 | 1376.4 | 1371.6 | 1360.5 | 1360.1 | 1365.5 | 1373.0 |
| 21.5° | 1386.3 | 1384.5 | 1382.2 | 1379.9 | 1371.6 | 1367.6 | 1362.8 | 1351.6 | 1351.4 | 1356.4 | 1364.2 |
| 22° | 1377.7 | 1375.9 | 1373.6 | 1371.2 | 1362.8 | 1359.1 | 1354.4 | 1342.4 | 1342.0 | 1347.4 | 1355.6 |



TEST NUMBER: P640155

CATALOG NUMBER: LCR630RD9FSE010-42W-2700K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 22.5° | 1369.0 | 1366.6 | 1364.9 | 1362.5 | 1353.8 | 1350.0 | 1344.6 | 1332.9 | 1332.6 | 1338.3 | 1346.3 |
| 23° | 1360.0 | 1357.6 | 1355.7 | 1353.7 | 1344.7 | 1340.8 | 1335.5 | 1323.5 | 1323.0 | 1328.5 | 1337.0 |
| 23.5° | 1350.9 | 1348.2 | 1346.9 | 1344.7 | 1335.4 | 1331.3 | 1326.3 | 1313.7 | 1313.3 | 1318.8 | 1327.2 |
| 24° | 1341.3 | 1337.2 | 1337.4 | 1335.1 | 1326.1 | 1321.9 | 1316.8 | 1303.6 | 1303.1 | 1309.0 | 1317.3 |
| 24.5° | 1331.6 | 1328.0 | 1327.8 | 1325.5 | 1316.1 | 1312.1 | 1306.7 | 1293.7 | 1293.2 | 1299.0 | 1307.9 |
| 25° | 1322.0 | 1321.1 | 1317.7 | 1315.8 | 1306.2 | 1302.2 | 1296.6 | 1283.4 | 1282.6 | 1288.7 | 1297.6 |
| 25.5° | 1311.9 | 1310.2 | 1307.8 | 1305.8 | 1296.4 | 1292.2 | 1286.4 | 1273.1 | 1272.4 | 1278.4 | 1287.4 |
| 26° | 1301.4 | 1299.7 | 1297.8 | 1295.7 | 1286.1 | 1281.7 | 1276.4 | 1262.5 | 1261.5 | 1267.5 | 1276.9 |
| 26.5° | 1291.3 | 1289.4 | 1287.5 | 1285.5 | 1276.0 | 1271.4 | 1265.4 | 1251.4 | 1250.8 | 1256.9 | 1266.5 |
| 27° | 1280.8 | 1278.4 | 1277.0 | 1275.0 | 1265.2 | 1260.7 | 1255.2 | 1240.6 | 1239.7 | 1246.0 | 1255.7 |
| 27.5° | 1270.0 | 1267.7 | 1266.4 | 1264.4 | 1254.4 | 1250.1 | 1244.3 | 1229.4 | 1228.6 | 1234.4 | 1244.6 |
| 28° | 1259.1 | 1256.8 | 1255.4 | 1253.6 | 1243.7 | 1239.0 | 1233.4 | 1218.1 | 1217.0 | 1223.3 | 1233.3 |
| 28.5° | 1247.9 | 1245.9 | 1244.4 | 1242.4 | 1232.6 | 1227.8 | 1221.9 | 1206.8 | 1205.8 | 1212.6 | 1221.8 |
| 29° | 1236.6 | 1234.4 | 1233.3 | 1231.3 | 1221.4 | 1216.8 | 1210.8 | 1194.9 | 1194.0 | 1200.3 | 1210.5 |
| 29.5° | 1225.2 | 1223.0 | 1221.7 | 1220.2 | 1209.8 | 1205.3 | 1199.2 | 1183.3 | 1182.1 | 1188.6 | 1198.8 |
| 30° | 1213.7 | 1211.3 | 1210.1 | 1208.5 | 1198.2 | 1193.8 | 1187.5 | 1171.2 | 1170.0 | 1176.3 | 1186.7 |
| 30.5° | 1201.8 | 1199.6 | 1198.3 | 1197.0 | 1186.1 | 1181.8 | 1175.6 | 1159.1 | 1158.2 | 1164.5 | 1174.8 |
| 31° | 1189.6 | 1187.8 | 1186.0 | 1184.6 | 1174.5 | 1169.8 | 1163.7 | 1146.5 | 1145.7 | 1152.3 | 1162.4 |
| 31.5° | 1177.5 | 1175.3 | 1174.0 | 1172.6 | 1162.2 | 1157.5 | 1151.0 | 1134.4 | 1133.4 | 1139.9 | 1150.0 |
| 32° | 1165.3 | 1163.1 | 1162.2 | 1160.5 | 1150.0 | 1145.3 | 1138.7 | 1121.6 | 1120.6 | 1127.5 | 1137.4 |
| 32.5° | 1153.0 | 1150.6 | 1149.4 | 1148.0 | 1137.0 | 1132.9 | 1125.9 | 1109.1 | 1108.2 | 1114.6 | 1125.0 |
| 33° | 1140.4 | 1138.2 | 1137.0 | 1135.7 | 1124.3 | 1120.0 | 1113.4 | 1096.1 | 1095.2 | 1101.8 | 1112.2 |
| 33.5° | 1127.5 | 1125.0 | 1123.8 | 1122.5 | 1111.5 | 1106.7 | 1100.5 | 1082.9 | 1082.4 | 1089.0 | 1098.8 |
| 34° | 1114.5 | 1112.3 | 1111.3 | 1109.7 | 1098.7 | 1094.1 | 1087.7 | 1070.1 | 1069.4 | 1076.0 | 1086.3 |
| 34.5° | 1101.5 | 1099.5 | 1098.1 | 1096.8 | 1085.3 | 1080.8 | 1074.1 | 1057.0 | 1056.5 | 1062.8 | 1072.7 |
| 35° | 1088.5 | 1086.4 | 1084.9 | 1083.5 | 1072.2 | 1067.5 | 1061.0 | 1043.8 | 1043.1 | 1049.5 | 1059.8 |
| 35.5° | 1075.0 | 1073.0 | 1071.6 | 1069.6 | 1058.6 | 1054.2 | 1047.5 | 1030.4 | 1030.2 | 1036.6 | 1046.4 |
| 36° | 1061.6 | 1060.0 | 1058.2 | 1056.2 | 1045.0 | 1040.7 | 1034.6 | 1017.2 | 1016.8 | 1023.4 | 1033.0 |
| 36.5° | 1048.5 | 1046.3 | 1044.5 | 1042.6 | 1031.2 | 1026.7 | 1020.8 | 1003.5 | 1003.1 | 1009.6 | 1019.2 |
| 37° | 1035.0 | 1032.9 | 1030.7 | 1028.9 | 1017.3 | 1012.7 | 1006.9 | 989.9 | 989.4 | 995.8 | 1005.4 |
| 37.5° | 1021.3 | 1019.2 | 1017.3 | 1015.0 | 1003.4 | 998.9 | 993.3 | 975.9 | 975.3 | 981.4 | 991.5 |
| 38° | 1007.6 | 1005.6 | 1003.4 | 1001.4 | 989.3 | 985.0 | 979.7 | 962.2 | 961.2 | 968.0 | 977.5 |
| 38.5° | 993.3 | 991.0 | 989.1 | 987.0 | 975.3 | 970.6 | 965.3 | 947.8 | 947.5 | 953.7 | 962.5 |
| 39° | 979.2 | 977.1 | 975.1 | 972.8 | 960.3 | 956.0 | 950.9 | 933.3 | 933.6 | 939.6 | 947.7 |
| 39.5° | 965.4 | 963.2 | 961.3 | 958.5 | 945.0 | 940.7 | 935.6 | 917.9 | 918.6 | 924.1 | 931.9 |
| 40° | 951.0 | 948.8 | 945.9 | 943.1 | 929.0 | 924.7 | 920.1 | 902.0 | 902.9 | 908.5 | 915.9 |
| 40.5° | 936.1 | 933.8 | 930.1 | 927.0 | 913.0 | 908.3 | 903.5 | 886.0 | 886.9 | 892.5 | 899.4 |
| 41° | 920.4 | 918.2 | 914.3 | 910.4 | 896.1 | 891.7 | 887.0 | 869.3 | 870.8 | 876.2 | 883.6 |
| 41.5° | 904.2 | 901.9 | 897.8 | 893.9 | 879.3 | 875.0 | 870.4 | 852.6 | 854.4 | 860.2 | 866.8 |
| 42° | 887.6 | 885.3 | 881.2 | 877.1 | 862.0 | 858.0 | 853.8 | 836.1 | 837.7 | 843.6 | 850.6 |
| 42.5° | 871.0 | 868.7 | 864.2 | 860.0 | 845.0 | 841.0 | 836.9 | 819.4 | 821.2 | 826.7 | 833.8 |
| 43° | 853.9 | 852.0 | 847.2 | 843.0 | 827.7 | 823.9 | 819.8 | 802.1 | 804.2 | 809.9 | 816.8 |
| 43.5° | 837.0 | 834.7 | 830.3 | 825.4 | 810.3 | 806.3 | 802.8 | 785.2 | 787.6 | 793.3 | 799.6 |
| 44° | 820.0 | 817.6 | 813.2 | 807.9 | 792.4 | 789.0 | 785.7 | 768.6 | 770.6 | 777.0 | 783.1 |
| 44.5° | 802.7 | 800.2 | 795.8 | 790.2 | 775.0 | 771.9 | 768.7 | 752.0 | 754.1 | 759.7 | 765.8 |



TEST NUMBER: P640155

CATALOG NUMBER: LCR630RD9FSE010-42W-2700K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 45° | 785.3 | 783.1 | 777.8 | 772.9 | 757.6 | 754.5 | 751.9 | 735.2 | 737.3 | 743.3 | 749.2 |
| 45.5° | 768.6 | 766.0 | 761.0 | 755.0 | 740.2 | 737.4 | 734.8 | 718.7 | 720.9 | 727.0 | 732.3 |
| 46° | 751.1 | 748.8 | 743.7 | 737.7 | 723.0 | 720.4 | 718.1 | 702.3 | 704.5 | 710.6 | 715.6 |
| 46.5° | 734.2 | 731.7 | 726.4 | 720.2 | 705.8 | 703.3 | 701.4 | 685.8 | 688.0 | 694.3 | 698.9 |
| 47° | 716.8 | 714.2 | 708.4 | 702.4 | 688.7 | 686.2 | 684.7 | 669.3 | 671.6 | 677.9 | 682.2 |
| 47.5° | 700.0 | 697.3 | 691.4 | 685.0 | 671.4 | 669.1 | 668.0 | 652.9 | 655.2 | 661.6 | 665.5 |
| 48° | 682.9 | 680.2 | 674.4 | 667.6 | 654.3 | 652.0 | 651.3 | 636.3 | 639.1 | 644.7 | 649.2 |
| 48.5° | 665.9 | 663.6 | 657.5 | 650.6 | 636.9 | 635.2 | 634.7 | 620.0 | 622.9 | 628.2 | 632.2 |
| 49° | 649.1 | 646.5 | 639.7 | 633.6 | 619.7 | 618.1 | 618.1 | 604.3 | 606.8 | 611.8 | 615.5 |
| 49.5° | 632.9 | 630.1 | 623.5 | 616.7 | 602.8 | 601.7 | 601.6 | 587.9 | 590.6 | 595.4 | 598.9 |
| 50° | 616.1 | 613.6 | 606.8 | 599.8 | 586.0 | 584.9 | 584.9 | 571.9 | 574.5 | 579.2 | 582.6 |
| 50.5° | 599.8 | 597.0 | 589.9 | 582.7 | 569.7 | 568.6 | 569.2 | 555.8 | 558.8 | 563.1 | 565.9 |
| 51° | 583.0 | 580.5 | 573.2 | 566.2 | 552.8 | 552.0 | 552.9 | 540.7 | 543.2 | 547.6 | 549.9 |
| 51.5° | 567.2 | 564.4 | 557.0 | 549.9 | 536.5 | 536.4 | 537.2 | 524.9 | 527.9 | 531.9 | 533.9 |
| 52° | 551.1 | 548.5 | 541.0 | 533.8 | 520.5 | 520.2 | 521.6 | 509.6 | 512.4 | 515.9 | 517.8 |
| 52.5° | 535.5 | 532.8 | 525.1 | 517.7 | 504.9 | 504.5 | 505.7 | 494.4 | 497.0 | 500.3 | 502.0 |
| 53° | 519.8 | 516.7 | 509.5 | 501.8 | 489.0 | 488.6 | 490.3 | 479.7 | 482.4 | 485.0 | 486.5 |
| 53.5° | 504.1 | 501.3 | 493.8 | 486.0 | 473.4 | 473.5 | 475.2 | 464.3 | 467.3 | 470.1 | 470.8 |
| 54° | 488.6 | 486.0 | 478.5 | 470.5 | 458.1 | 457.9 | 460.3 | 449.9 | 452.6 | 454.8 | 455.5 |
| 54.5° | 473.6 | 470.9 | 462.9 | 455.5 | 443.3 | 443.0 | 445.6 | 435.4 | 438.0 | 440.3 | 440.4 |
| 55° | 458.7 | 455.8 | 448.2 | 440.1 | 428.8 | 428.5 | 430.8 | 421.1 | 423.9 | 425.6 | 425.4 |
| 55.5° | 444.0 | 441.4 | 433.4 | 425.6 | 413.9 | 413.9 | 416.3 | 406.6 | 409.4 | 411.3 | 410.8 |
| 56° | 429.0 | 426.4 | 419.0 | 411.1 | 399.7 | 399.5 | 402.1 | 392.7 | 395.5 | 396.9 | 396.0 |
| 56.5° | 414.8 | 412.1 | 404.6 | 396.8 | 385.6 | 385.4 | 388.3 | 379.0 | 381.7 | 382.8 | 381.6 |
| 57° | 400.6 | 397.6 | 390.3 | 382.4 | 371.8 | 371.6 | 374.2 | 365.5 | 368.1 | 368.7 | 367.6 |
| 57.5° | 386.3 | 383.9 | 376.1 | 368.8 | 358.2 | 358.2 | 360.7 | 352.0 | 354.7 | 355.1 | 353.5 |
| 58° | 372.2 | 369.8 | 362.4 | 355.0 | 344.6 | 344.6 | 347.4 | 338.9 | 341.6 | 341.9 | 339.8 |
| 58.5° | 358.9 | 356.4 | 349.2 | 341.8 | 331.6 | 331.7 | 334.4 | 325.9 | 328.4 | 328.6 | 326.4 |
| 59° | 345.3 | 343.1 | 336.2 | 328.5 | 318.7 | 318.8 | 321.5 | 313.2 | 315.6 | 315.5 | 313.0 |
| 59.5° | 330.3 | 332.4 | 323.5 | 315.9 | 306.0 | 306.1 | 308.8 | 300.5 | 302.6 | 302.6 | 299.9 |
| 60° | 317.8 | 319.0 | 310.8 | 308.6 | 293.4 | 293.6 | 296.1 | 288.1 | 290.4 | 289.9 | 287.1 |
| 60.5° | 305.4 | 305.6 | 298.1 | 295.1 | 281.3 | 281.4 | 283.9 | 276.0 | 278.0 | 277.6 | 274.4 |
| 61° | 293.0 | 292.2 | 285.4 | 281.7 | 269.6 | 269.6 | 272.0 | 264.1 | 266.3 | 265.2 | 262.1 |
| 61.5° | 280.6 | 278.8 | 272.7 | 268.2 | 257.9 | 257.9 | 260.2 | 252.5 | 254.3 | 253.3 | 250.1 |
| 62° | 268.7 | 266.9 | 260.9 | 254.8 | 246.4 | 246.6 | 248.6 | 241.0 | 242.7 | 241.6 | 238.4 |
| 62.5° | 256.5 | 255.0 | 249.1 | 243.6 | 235.3 | 235.4 | 237.5 | 229.6 | 230.9 | 229.9 | 226.5 |
| 63° | 244.7 | 243.3 | 237.7 | 232.5 | 224.2 | 224.2 | 226.1 | 218.5 | 219.8 | 218.4 | 215.0 |
| 63.5° | 233.2 | 231.8 | 226.7 | 221.5 | 213.5 | 213.6 | 215.3 | 207.8 | 208.9 | 207.4 | 204.1 |
| 64° | 221.9 | 220.5 | 215.8 | 210.9 | 203.1 | 203.2 | 205.0 | 197.2 | 198.2 | 196.7 | 193.4 |
| 64.5° | 210.6 | 209.5 | 205.3 | 200.5 | 192.9 | 193.0 | 194.4 | 186.9 | 187.5 | 186.1 | 183.0 |
| 65° | 200.0 | 198.9 | 194.7 | 190.5 | 183.0 | 183.2 | 184.4 | 176.9 | 177.3 | 175.6 | 172.7 |
| 65.5° | 189.3 | 188.6 | 184.8 | 180.6 | 173.4 | 173.6 | 174.7 | 166.8 | 167.2 | 165.8 | 162.7 |
| 66° | 178.9 | 178.2 | 175.0 | 171.1 | 164.0 | 164.1 | 165.1 | 157.3 | 157.4 | 155.8 | 152.9 |
| 66.5° | 168.7 | 168.2 | 165.4 | 161.7 | 154.7 | 154.9 | 155.8 | 148.1 | 147.8 | 146.5 | 143.6 |
| 67° | 158.9 | 158.6 | 156.1 | 152.7 | 146.0 | 146.1 | 146.8 | 139.1 | 138.6 | 137.3 | 134.7 |



TEST NUMBER: P640155

CATALOG NUMBER: LCR630RD9FSE010-42W-2700K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 67.5° | 149.4 | 149.2 | 147.0 | 143.9 | 137.4 | 137.6 | 138.1 | 130.4 | 129.6 | 128.4 | 125.9 |
| 68° | 139.9 | 140.2 | 138.3 | 135.4 | 129.2 | 129.3 | 129.7 | 121.8 | 120.9 | 119.8 | 117.3 |
| 68.5° | 130.9 | 131.3 | 129.9 | 127.3 | 121.3 | 121.2 | 121.6 | 113.8 | 112.4 | 111.6 | 109.3 |
| 69° | 122.1 | 122.9 | 121.7 | 119.4 | 113.6 | 113.6 | 113.8 | 106.0 | 104.0 | 103.6 | 101.6 |
| 69.5° | 113.3 | 114.7 | 113.9 | 111.8 | 106.2 | 106.2 | 106.2 | 98.5 | 96.1 | 95.8 | 94.3 |
| 70° | 105.2 | 106.8 | 106.3 | 104.5 | 99.2 | 99.1 | 99.0 | 91.6 | 89.5 | 89.4 | 88.0 |
| 70.5° | 97.2 | 99.4 | 99.2 | 97.4 | 92.6 | 92.4 | 92.3 | 85.3 | 82.9 | 83.0 | 81.8 |
| 71° | 89.6 | 92.0 | 92.3 | 90.8 | 86.9 | 86.5 | 86.2 | 79.0 | 76.3 | 76.6 | 75.6 |
| 71.5° | 82.2 | 85.0 | 85.7 | 84.5 | 81.2 | 80.6 | 80.1 | 72.8 | 69.7 | 70.2 | 69.4 |
| 72° | 75.7 | 78.5 | 79.4 | 78.5 | 75.5 | 74.7 | 74.1 | 66.5 | 63.1 | 63.8 | 63.2 |
| 72.5° | 69.4 | 72.4 | 73.6 | 72.9 | 69.9 | 68.7 | 68.0 | 61.2 | 58.1 | 58.7 | 58.2 |
| 73° | 63.8 | 66.9 | 68.1 | 67.5 | 64.2 | 63.8 | 63.0 | 56.3 | 53.3 | 54.1 | 53.6 |
| 73.5° | 58.6 | 61.7 | 63.0 | 62.6 | 59.6 | 59.2 | 58.2 | 52.1 | 49.1 | 49.9 | 49.6 |
| 74° | 53.9 | 57.0 | 58.3 | 58.0 | 55.5 | 55.1 | 53.9 | 48.2 | 45.2 | 46.2 | 45.9 |
| 74.5° | 49.8 | 52.6 | 53.8 | 53.9 | 51.7 | 51.2 | 50.0 | 44.6 | 42.8 | 42.8 | 42.9 |
| 75° | 45.9 | 48.7 | 49.8 | 50.1 | 48.1 | 47.6 | 46.5 | 41.5 | 40.4 | 40.3 | 40.7 |
| 75.5° | 43.0 | 45.2 | 46.3 | 46.6 | 44.8 | 44.3 | 43.7 | 39.4 | 38.5 | 38.4 | 38.9 |
| 76° | 41.0 | 42.2 | 43.2 | 43.5 | 42.3 | 41.9 | 40.9 | 37.6 | 36.6 | 36.6 | 36.9 |
| 76.5° | 38.8 | 39.5 | 40.8 | 41.3 | 40.3 | 40.0 | 39.2 | 35.7 | 34.7 | 34.7 | 35.1 |
| 77° | 36.9 | 37.7 | 39.0 | 39.4 | 38.5 | 38.1 | 37.4 | 33.9 | 32.9 | 32.9 | 33.3 |
| 77.5° | 35.1 | 35.9 | 37.1 | 37.5 | 36.7 | 36.3 | 35.5 | 32.2 | 31.1 | 31.1 | 31.5 |
| 78° | 33.3 | 34.1 | 35.3 | 35.7 | 34.9 | 34.5 | 33.8 | 30.3 | 29.4 | 29.3 | 29.7 |
| 78.5° | 31.5 | 32.4 | 33.4 | 33.9 | 33.0 | 32.7 | 32.0 | 28.6 | 27.7 | 27.6 | 27.9 |
| 79° | 29.8 | 30.6 | 31.7 | 32.2 | 31.3 | 31.0 | 30.2 | 26.9 | 26.0 | 25.8 | 26.2 |
| 79.5° | 28.1 | 28.9 | 30.0 | 30.6 | 29.6 | 29.3 | 28.4 | 25.2 | 24.3 | 24.1 | 24.6 |
| 80° | 26.3 | 27.2 | 28.4 | 28.9 | 27.9 | 27.6 | 26.7 | 23.6 | 22.6 | 22.5 | 23.0 |
| 80.5° | 24.6 | 25.4 | 26.7 | 27.2 | 26.2 | 25.9 | 25.0 | 21.9 | 21.0 | 20.9 | 21.3 |
| 81° | 22.9 | 23.8 | 25.0 | 25.5 | 24.6 | 24.3 | 23.3 | 20.2 | 19.3 | 19.3 | 19.7 |
| 81.5° | 21.3 | 22.1 | 23.3 | 23.8 | 22.9 | 22.6 | 21.7 | 18.6 | 17.7 | 17.7 | 18.2 |
| 82° | 19.6 | 20.5 | 21.7 | 22.2 | 21.3 | 21.1 | 20.2 | 17.1 | 16.2 | 16.1 | 16.7 |
| 82.5° | 18.1 | 18.9 | 20.2 | 20.6 | 19.7 | 19.5 | 18.6 | 15.5 | 14.6 | 14.6 | 15.2 |
| 83° | 16.5 | 17.3 | 18.6 | 19.1 | 18.2 | 18.0 | 17.1 | 13.9 | 13.1 | 13.0 | 13.7 |
| 83.5° | 14.9 | 15.7 | 17.0 | 17.5 | 16.7 | 16.4 | 15.6 | 12.4 | 11.7 | 11.5 | 12.3 |
| 84° | 13.4 | 14.1 | 15.6 | 16.0 | 15.2 | 14.9 | 14.1 | 11.0 | 10.3 | 10.2 | 11.0 |
| 84.5° | 11.9 | 12.6 | 14.1 | 14.5 | 13.7 | 13.5 | 12.6 | 9.7 | 8.9 | 8.9 | 9.6 |
| 85° | 10.5 | 11.1 | 12.6 | 13.1 | 12.2 | 12.0 | 11.2 | 8.3 | 7.6 | 7.6 | 8.3 |
| 85.5° | 9.0 | 9.7 | 11.2 | 11.6 | 10.8 | 10.6 | 9.8 | 7.0 | 6.2 | 6.2 | 6.9 |
| 86° | 7.6 | 8.3 | 9.8 | 10.2 | 9.4 | 9.2 | 8.5 | 5.7 | 4.8 | 4.9 | 5.6 |
| 86.5° | 6.3 | 7.0 | 8.5 | 8.8 | 8.0 | 7.9 | 7.1 | 4.4 | 3.7 | 3.7 | 4.3 |
| 87° | 5.1 | 5.8 | 7.1 | 7.4 | 6.7 | 6.5 | 5.8 | 3.3 | 2.6 | 2.7 | 3.0 |
| 87.5° | 4.0 | 4.6 | 5.8 | 6.1 | 5.3 | 5.1 | 4.4 | 2.2 | 1.7 | 1.7 | 1.8 |
| 88° | 3.2 | 3.4 | 4.5 | 4.7 | 3.9 | 3.8 | 3.2 | 1.3 | 0.9 | 0.8 | 0.7 |
| 88.5° | 2.5 | 2.6 | 3.3 | 3.4 | 2.7 | 2.5 | 2.1 | 0.5 | 0.3 | 0.2 | 0.2 |
| 89° | 1.7 | 1.8 | 2.5 | 2.6 | 1.4 | 1.3 | 1.0 | 0.2 | 0.1 | 0.1 | 0.1 |
| 89.5° | 0.9 | 1.0 | 1.7 | 1.8 | 0.5 | 0.4 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |



TEST NUMBER: P640155
 CATALOG NUMBER: LCR630RD9FSE010-42W-2700K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|-----|-------|-----|-------|-----|--------|------|--------|------|--------|------|
| 90° | 0.2 | 0.2 | 0.9 | 0.9 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 90.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 91° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 91.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 92° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 92.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 93° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 93.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 94° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 94.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 95° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 95.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 96° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 96.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 97° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 97.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 98° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 98.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 99° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 99.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 100° | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 100.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 101° | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 101.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 102° | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 102.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 103° | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 103.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 104° | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 104.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 105° | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 105.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 106° | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 106.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 107° | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 107.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 |
| 108° | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.1 |
| 108.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 |
| 109° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 109.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 110° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 110.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 111° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 111.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 112° | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |



TEST NUMBER: P640155

CATALOG NUMBER: LCR630RD9FSE010-42W-2700K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|-----|-------|-----|-------|-----|--------|------|--------|------|--------|------|
| 112.5° | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 113° | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 113.5° | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 114° | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 114.5° | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 115° | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 115.5° | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 116° | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 116.5° | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 117° | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.2 |
| 117.5° | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 |
| 118° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 118.5° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 119° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 119.5° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 120° | 0.4 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 120.5° | 0.4 | 0.4 | 0.4 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 121° | 0.4 | 0.4 | 0.4 | 0.4 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 121.5° | 0.4 | 0.4 | 0.4 | 0.4 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 122° | 0.4 | 0.4 | 0.4 | 0.4 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 122.5° | 0.4 | 0.4 | 0.4 | 0.4 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 123° | 0.4 | 0.4 | 0.4 | 0.4 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 123.5° | 0.4 | 0.4 | 0.4 | 0.4 | 0.3 | 0.3 | 0.3 | 0.3 | 0.4 | 0.3 | 0.3 |
| 124° | 0.4 | 0.4 | 0.4 | 0.4 | 0.3 | 0.3 | 0.3 | 0.4 | 0.4 | 0.4 | 0.3 |
| 124.5° | 0.4 | 0.4 | 0.4 | 0.4 | 0.3 | 0.3 | 0.3 | 0.4 | 0.4 | 0.4 | 0.4 |
| 125° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 125.5° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 126° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 126.5° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 127° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 127.5° | 0.5 | 0.5 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 128° | 0.5 | 0.5 | 0.5 | 0.5 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 128.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 129° | 0.5 | 0.5 | 0.5 | 0.5 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 129.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 130° | 0.5 | 0.5 | 0.5 | 0.5 | 0.4 | 0.4 | 0.4 | 0.4 | 0.5 | 0.4 | 0.4 |
| 130.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.4 | 0.4 | 0.4 | 0.5 | 0.5 | 0.5 | 0.4 |
| 131° | 0.5 | 0.5 | 0.5 | 0.5 | 0.4 | 0.4 | 0.4 | 0.5 | 0.5 | 0.5 | 0.5 |
| 131.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 132° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 132.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 133° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 133.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 134° | 0.6 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 134.5° | 0.6 | 0.6 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |



TEST NUMBER: P640155
 CATALOG NUMBER: LCR630RD9FSE010-42W-2700K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|-----|-------|-----|-------|-----|--------|------|--------|------|--------|------|
| 135° | 0.6 | 0.6 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 135.5° | 0.6 | 0.6 | 0.6 | 0.6 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 136° | 0.6 | 0.6 | 0.6 | 0.6 | 0.5 | 0.5 | 0.5 | 0.5 | 0.6 | 0.5 | 0.5 |
| 136.5° | 0.6 | 0.6 | 0.6 | 0.6 | 0.5 | 0.5 | 0.5 | 0.6 | 0.6 | 0.5 | 0.5 |
| 137° | 0.6 | 0.6 | 0.6 | 0.6 | 0.5 | 0.5 | 0.5 | 0.6 | 0.6 | 0.6 | 0.6 |
| 137.5° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 138° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 138.5° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 139° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 139.5° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 140° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 140.5° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 141° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 141.5° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 142° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.7 | 0.6 | 0.6 |
| 142.5° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.7 | 0.7 | 0.7 | 0.7 |
| 143° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.7 | 0.7 | 0.7 | 0.7 |
| 143.5° | 0.7 | 0.6 | 0.6 | 0.6 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 144° | 0.7 | 0.7 | 0.6 | 0.6 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 144.5° | 0.7 | 0.7 | 0.7 | 0.6 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 145° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 145.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 146° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 146.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 147° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 147.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 148° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.8 | 0.7 | 0.7 |
| 148.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.8 | 0.8 | 0.8 | 0.8 |
| 149° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.8 | 0.8 | 0.8 | 0.8 |
| 149.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 150° | 0.7 | 0.7 | 0.7 | 0.7 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 150.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 151° | 0.7 | 0.7 | 0.7 | 0.7 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 151.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 152° | 0.7 | 0.7 | 0.7 | 0.7 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 152.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 153° | 0.7 | 0.7 | 0.7 | 0.7 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 153.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 154° | 0.7 | 0.7 | 0.7 | 0.7 | 0.8 | 0.8 | 0.8 | 0.8 | 0.9 | 0.8 | 0.8 |
| 154.5° | 0.8 | 0.7 | 0.7 | 0.7 | 0.8 | 0.8 | 0.8 | 0.9 | 0.9 | 0.9 | 0.8 |
| 155° | 0.8 | 0.7 | 0.7 | 0.7 | 0.8 | 0.8 | 0.8 | 0.9 | 0.9 | 0.9 | 0.9 |
| 155.5° | 0.8 | 0.8 | 0.7 | 0.7 | 0.8 | 0.8 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 156° | 0.8 | 0.8 | 0.7 | 0.7 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 156.5° | 0.8 | 0.8 | 0.7 | 0.7 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 157° | 0.8 | 0.8 | 0.7 | 0.7 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |



TEST NUMBER: P640155
 CATALOG NUMBER: LCR630RD9FSE010-42W-2700K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|-----|-------|-----|-------|-----|--------|------|--------|------|--------|------|
| 157.5° | 0.8 | 0.8 | 0.7 | 0.7 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 158° | 0.8 | 0.8 | 0.7 | 0.7 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 158.5° | 0.8 | 0.8 | 0.8 | 0.7 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 159° | 0.8 | 0.8 | 0.8 | 0.7 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 159.5° | 0.8 | 0.8 | 0.8 | 0.7 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 160° | 0.8 | 0.8 | 0.8 | 0.7 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 160.5° | 0.8 | 0.8 | 0.8 | 0.7 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 161° | 0.8 | 0.8 | 0.8 | 0.8 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 161.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 162° | 0.8 | 0.8 | 0.8 | 0.8 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 162.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.9 | 0.9 | 0.9 | 0.9 | 1.0 | 0.9 | 0.9 |
| 163° | 0.8 | 0.8 | 0.8 | 0.8 | 0.9 | 0.9 | 0.9 | 0.9 | 1.0 | 0.9 | 0.9 |
| 163.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.9 | 0.9 | 0.9 | 0.9 | 1.0 | 1.0 | 0.9 |
| 164° | 0.8 | 0.8 | 0.8 | 0.8 | 0.9 | 0.9 | 0.9 | 0.9 | 1.0 | 1.0 | 0.9 |
| 164.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.9 | 0.9 | 0.9 | 0.9 | 1.0 | 1.0 | 0.9 |
| 165° | 0.8 | 0.8 | 0.8 | 0.8 | 0.9 | 0.9 | 0.9 | 1.0 | 1.0 | 1.0 | 0.9 |
| 165.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.9 | 0.9 | 0.9 | 1.0 | 1.0 | 1.0 | 0.9 |
| 166° | 0.8 | 0.8 | 0.8 | 0.8 | 0.9 | 0.9 | 0.9 | 1.0 | 1.0 | 1.0 | 0.9 |
| 166.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.9 | 0.9 | 0.9 | 1.0 | 1.0 | 1.0 | 0.9 |
| 167° | 0.8 | 0.8 | 0.8 | 0.8 | 0.9 | 0.9 | 0.9 | 1.0 | 1.0 | 1.0 | 0.9 |
| 167.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.9 | 0.9 | 0.9 | 1.0 | 1.0 | 1.0 | 1.0 |
| 168° | 0.8 | 0.8 | 0.8 | 0.8 | 0.9 | 0.9 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 168.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.9 | 0.9 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 169° | 0.8 | 0.8 | 0.8 | 0.8 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 169.5° | 0.8 | 0.8 | 0.8 | 0.8 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 170° | 0.8 | 0.8 | 0.8 | 0.8 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 170.5° | 0.8 | 0.8 | 0.8 | 0.8 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 171° | 0.8 | 0.8 | 0.8 | 0.8 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 171.5° | 0.8 | 0.8 | 0.8 | 0.8 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 172° | 0.8 | 0.8 | 0.8 | 0.8 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 172.5° | 0.8 | 0.8 | 0.8 | 0.8 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 173° | 0.8 | 0.8 | 0.8 | 0.8 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 173.5° | 0.8 | 0.8 | 0.8 | 0.8 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 174° | 0.8 | 0.8 | 0.8 | 0.8 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 174.5° | 0.8 | 0.8 | 0.8 | 0.8 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 175° | 0.9 | 0.9 | 0.8 | 0.8 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 175.5° | 0.9 | 0.9 | 0.9 | 0.9 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 176° | 0.9 | 0.9 | 0.9 | 0.9 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 176.5° | 0.9 | 0.9 | 0.9 | 0.9 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 177° | 0.9 | 0.9 | 0.9 | 0.9 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 177.5° | 0.9 | 0.9 | 0.9 | 0.9 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 178° | 0.9 | 0.9 | 0.9 | 0.9 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 178.5° | 0.9 | 0.9 | 0.9 | 0.9 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 179° | 0.9 | 0.9 | 0.9 | 0.9 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 179.5° | 0.9 | 0.9 | 0.9 | 0.9 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |



TEST NUMBER: P640155
CATALOG NUMBER: LCR630RD9FSE010-42W-2700K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|------|-----|-------|-----|-------|-----|--------|------|--------|------|--------|------|
| 180° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |

TEST NUMBER: P640155

CATALOG NUMBER: LCR630RD9FSE010-42W-2700K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|--------|--------|--------|--------|--------|
| 0° | 1558.6 | 1558.6 | 1558.6 | 1558.6 | 1558.6 | 1558.6 |
| 0.5° | 1558.3 | 1558.5 | 1558.7 | 1558.6 | 1559.0 | 1558.8 |
| 1° | 1557.9 | 1558.6 | 1558.7 | 1558.4 | 1559.1 | 1558.7 |
| 1.5° | 1557.2 | 1558.2 | 1558.6 | 1558.4 | 1559.2 | 1558.6 |
| 2° | 1556.5 | 1557.7 | 1558.3 | 1558.0 | 1558.9 | 1558.5 |
| 2.5° | 1555.4 | 1557.0 | 1557.8 | 1557.4 | 1558.5 | 1557.9 |
| 3° | 1554.3 | 1556.3 | 1556.9 | 1556.7 | 1558.0 | 1557.1 |
| 3.5° | 1553.0 | 1555.1 | 1555.9 | 1555.5 | 1557.2 | 1556.4 |
| 4° | 1551.4 | 1553.8 | 1554.6 | 1554.3 | 1556.0 | 1555.1 |
| 4.5° | 1549.8 | 1552.1 | 1553.3 | 1553.4 | 1554.8 | 1554.0 |
| 5° | 1548.1 | 1550.6 | 1551.6 | 1551.7 | 1553.4 | 1552.6 |
| 5.5° | 1545.7 | 1548.9 | 1549.8 | 1550.0 | 1551.7 | 1550.7 |
| 6° | 1543.4 | 1547.1 | 1547.6 | 1547.7 | 1549.9 | 1548.8 |
| 6.5° | 1541.0 | 1544.4 | 1545.3 | 1545.2 | 1548.0 | 1546.6 |
| 7° | 1538.1 | 1542.2 | 1543.2 | 1543.2 | 1545.6 | 1544.4 |
| 7.5° | 1535.5 | 1539.4 | 1540.5 | 1540.4 | 1543.3 | 1541.8 |
| 8° | 1532.3 | 1536.5 | 1537.9 | 1537.8 | 1540.7 | 1539.0 |
| 8.5° | 1528.9 | 1533.5 | 1534.9 | 1534.9 | 1538.0 | 1536.4 |
| 9° | 1525.3 | 1530.3 | 1531.6 | 1531.5 | 1534.6 | 1533.0 |
| 9.5° | 1521.7 | 1527.0 | 1528.2 | 1527.7 | 1531.5 | 1529.6 |
| 10° | 1517.6 | 1523.1 | 1524.5 | 1524.7 | 1527.9 | 1526.2 |
| 10.5° | 1513.7 | 1519.1 | 1520.7 | 1520.8 | 1524.2 | 1522.4 |
| 11° | 1509.5 | 1515.3 | 1517.0 | 1516.6 | 1520.3 | 1518.5 |
| 11.5° | 1504.9 | 1511.0 | 1512.9 | 1512.4 | 1516.2 | 1514.4 |
| 12° | 1500.1 | 1506.5 | 1508.3 | 1507.8 | 1511.6 | 1509.7 |
| 12.5° | 1495.5 | 1502.1 | 1503.7 | 1503.2 | 1507.0 | 1505.0 |
| 13° | 1490.3 | 1496.9 | 1498.8 | 1498.4 | 1502.6 | 1500.4 |
| 13.5° | 1485.0 | 1492.1 | 1493.9 | 1493.3 | 1497.5 | 1495.5 |
| 14° | 1479.6 | 1486.7 | 1488.8 | 1488.1 | 1492.3 | 1490.3 |
| 14.5° | 1473.9 | 1481.6 | 1483.2 | 1482.6 | 1487.0 | 1484.9 |
| 15° | 1467.9 | 1475.9 | 1477.4 | 1476.7 | 1481.5 | 1479.0 |
| 15.5° | 1461.6 | 1470.0 | 1471.8 | 1470.7 | 1475.5 | 1473.1 |
| 16° | 1455.4 | 1464.0 | 1465.6 | 1464.5 | 1469.5 | 1467.1 |
| 16.5° | 1448.9 | 1457.8 | 1459.4 | 1458.0 | 1463.2 | 1460.7 |
| 17° | 1442.4 | 1451.5 | 1453.2 | 1451.8 | 1456.6 | 1454.3 |
| 17.5° | 1435.4 | 1444.7 | 1446.5 | 1445.4 | 1450.2 | 1447.5 |
| 18° | 1428.4 | 1437.6 | 1439.3 | 1438.1 | 1443.5 | 1440.6 |
| 18.5° | 1421.2 | 1430.6 | 1432.2 | 1430.7 | 1436.1 | 1433.6 |
| 19° | 1413.5 | 1423.4 | 1424.9 | 1423.6 | 1429.0 | 1426.1 |
| 19.5° | 1405.8 | 1416.0 | 1417.6 | 1415.8 | 1421.7 | 1418.6 |
| 20° | 1397.9 | 1408.4 | 1409.6 | 1408.1 | 1413.9 | 1410.8 |
| 20.5° | 1389.9 | 1400.6 | 1401.8 | 1399.9 | 1405.8 | 1403.1 |
| 21° | 1381.3 | 1392.5 | 1393.8 | 1391.5 | 1397.8 | 1394.9 |
| 21.5° | 1372.8 | 1383.9 | 1385.4 | 1383.0 | 1389.4 | 1386.3 |
| 22° | 1364.1 | 1375.4 | 1376.6 | 1374.5 | 1381.0 | 1377.7 |

TEST NUMBER: P640155

CATALOG NUMBER: LCR630RD9FSE010-42W-2700K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|--------|--------|--------|---------------|--------|
| 22.5° | 1355.3 | 1367.0 | 1368.1 | 1366.2 | <i>1372.0</i> | 1369.0 |
| 23° | 1346.0 | 1357.8 | 1358.9 | 1356.9 | <i>1362.9</i> | 1360.0 |
| 23.5° | 1337.0 | 1349.0 | 1349.8 | 1347.5 | <i>1354.1</i> | 1350.9 |
| 24° | 1327.6 | 1339.5 | 1340.4 | 1337.8 | <i>1344.7</i> | 1341.3 |
| 24.5° | 1318.0 | 1330.1 | 1330.8 | 1328.3 | <i>1334.7</i> | 1331.6 |
| 25° | 1307.7 | 1320.3 | 1321.0 | 1318.7 | <i>1325.0</i> | 1322.0 |
| 25.5° | 1297.7 | 1310.5 | 1311.1 | 1308.3 | <i>1314.9</i> | 1311.9 |
| 26° | 1287.6 | 1300.7 | 1301.1 | 1297.8 | <i>1304.9</i> | 1301.4 |
| 26.5° | 1277.3 | 1290.2 | 1290.7 | 1287.5 | <i>1294.5</i> | 1291.3 |
| 27° | 1266.3 | 1279.8 | 1280.0 | 1276.7 | <i>1283.8</i> | 1280.8 |
| 27.5° | 1255.3 | 1269.1 | 1269.6 | 1265.8 | <i>1272.8</i> | 1270.0 |
| 28° | 1244.2 | 1258.3 | 1258.4 | 1254.6 | <i>1261.8</i> | 1259.1 |
| 28.5° | 1233.5 | 1247.1 | 1247.2 | 1243.5 | <i>1250.6</i> | 1247.9 |
| 29° | 1221.8 | 1235.8 | 1235.9 | 1232.1 | <i>1239.4</i> | 1236.6 |
| 29.5° | 1210.1 | 1224.5 | 1224.5 | 1220.3 | <i>1227.9</i> | 1225.2 |
| 30° | 1198.3 | 1212.9 | 1212.5 | 1208.4 | <i>1216.7</i> | 1213.7 |
| 30.5° | 1186.7 | 1201.2 | 1200.6 | 1196.3 | <i>1204.7</i> | 1201.8 |
| 31° | 1174.2 | 1188.7 | 1188.4 | 1183.9 | <i>1192.8</i> | 1189.6 |
| 31.5° | 1161.7 | 1176.4 | 1176.1 | 1171.5 | <i>1180.6</i> | 1177.5 |
| 32° | 1149.4 | 1164.2 | 1163.8 | 1158.9 | <i>1168.1</i> | 1165.3 |
| 32.5° | 1136.8 | 1151.7 | 1150.8 | 1146.3 | <i>1155.4</i> | 1153.0 |
| 33° | 1123.6 | 1138.5 | 1137.8 | 1133.5 | <i>1143.1</i> | 1140.4 |
| 33.5° | 1110.8 | 1125.7 | 1124.6 | 1120.5 | <i>1130.3</i> | 1127.5 |
| 34° | 1097.5 | 1112.7 | 1111.9 | 1107.3 | <i>1117.2</i> | 1114.5 |
| 34.5° | 1084.4 | 1099.1 | 1098.0 | 1093.6 | <i>1104.2</i> | 1101.5 |
| 35° | 1070.9 | 1085.6 | 1084.6 | 1080.4 | <i>1090.7</i> | 1088.5 |
| 35.5° | 1057.3 | 1072.4 | 1071.1 | 1066.9 | <i>1077.4</i> | 1075.0 |
| 36° | 1044.1 | 1058.9 | 1057.7 | 1053.3 | <i>1064.1</i> | 1061.6 |
| 36.5° | 1029.9 | 1045.2 | 1044.0 | 1039.6 | <i>1050.6</i> | 1048.5 |
| 37° | 1016.3 | 1031.0 | 1030.3 | 1025.8 | <i>1036.8</i> | 1035.0 |
| 37.5° | 1002.1 | 1017.4 | 1015.5 | 1011.7 | <i>1022.8</i> | 1021.3 |
| 38° | 987.7 | 1002.9 | 1001.4 | 997.5 | <i>1009.1</i> | 1007.6 |
| 38.5° | 972.6 | 988.1 | 986.9 | 983.1 | <i>994.7</i> | 993.3 |
| 39° | 957.4 | 972.5 | 971.7 | 968.1 | <i>980.7</i> | 979.2 |
| 39.5° | 941.4 | 956.8 | 955.2 | 952.3 | <i>966.6</i> | 965.4 |
| 40° | 925.4 | 940.9 | 939.3 | 936.0 | <i>951.2</i> | 951.0 |
| 40.5° | 909.0 | 924.6 | 922.8 | 919.7 | <i>935.4</i> | 936.1 |
| 41° | 892.4 | 908.1 | 906.2 | 903.1 | <i>919.4</i> | 920.4 |
| 41.5° | 875.7 | 890.9 | 888.9 | 886.0 | <i>903.1</i> | 904.2 |
| 42° | 858.8 | 874.0 | 871.8 | 869.0 | <i>885.8</i> | 887.6 |
| 42.5° | 841.4 | 857.1 | 855.0 | 852.3 | <i>869.1</i> | 871.0 |
| 43° | 824.2 | 839.8 | 837.3 | 835.1 | <i>852.4</i> | 853.9 |
| 43.5° | 807.0 | 821.8 | 819.4 | 817.2 | <i>835.2</i> | 837.0 |
| 44° | 789.9 | 804.3 | 802.1 | 800.0 | <i>817.4</i> | 820.0 |
| 44.5° | 772.7 | 786.8 | 784.2 | 782.7 | <i>800.7</i> | 802.7 |

TEST NUMBER: P640155

CATALOG NUMBER: LCR630RD9FSE010-42W-2700K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|-------|--------|-------|--------|-------|
| 45° | 754.8 | 769.1 | 766.5 | 765.4 | 783.5 | 785.3 |
| 45.5° | 737.7 | 751.2 | 749.1 | 747.7 | 766.1 | 768.6 |
| 46° | 720.7 | 733.8 | 731.4 | 730.4 | 748.7 | 751.1 |
| 46.5° | 703.6 | 715.7 | 713.3 | 713.1 | 732.0 | 734.2 |
| 47° | 686.6 | 698.0 | 695.8 | 695.8 | 714.4 | 716.8 |
| 47.5° | 669.5 | 679.8 | 678.4 | 678.2 | 697.2 | 700.0 |
| 48° | 652.5 | 662.7 | 661.0 | 661.4 | 680.3 | 682.9 |
| 48.5° | 635.4 | 645.1 | 643.3 | 644.2 | 663.4 | 665.9 |
| 49° | 618.6 | 627.7 | 626.6 | 627.1 | 646.4 | 649.1 |
| 49.5° | 601.4 | 610.8 | 609.6 | 610.4 | 629.5 | 632.9 |
| 50° | 584.6 | 593.4 | 592.2 | 593.5 | 613.0 | 616.1 |
| 50.5° | 567.8 | 576.2 | 575.4 | 576.6 | 596.4 | 599.8 |
| 51° | 551.7 | 559.5 | 558.7 | 560.3 | 580.0 | 583.0 |
| 51.5° | 535.7 | 543.0 | 542.1 | 544.2 | 563.8 | 567.2 |
| 52° | 518.9 | 526.6 | 525.8 | 528.0 | 547.5 | 551.1 |
| 52.5° | 502.7 | 510.4 | 509.6 | 512.1 | 531.9 | 535.5 |
| 53° | 486.9 | 494.2 | 493.6 | 496.2 | 515.8 | 519.8 |
| 53.5° | 471.3 | 478.4 | 477.7 | 480.3 | 500.4 | 504.1 |
| 54° | 455.6 | 462.7 | 462.2 | 464.8 | 484.7 | 488.6 |
| 54.5° | 440.3 | 447.5 | 447.0 | 449.6 | 469.7 | 473.6 |
| 55° | 425.2 | 432.4 | 431.6 | 435.0 | 454.8 | 458.7 |
| 55.5° | 410.4 | 417.4 | 416.8 | 420.1 | 439.5 | 444.0 |
| 56° | 395.7 | 402.5 | 402.1 | 405.0 | 424.7 | 429.0 |
| 56.5° | 381.1 | 387.9 | 387.8 | 390.6 | 410.6 | 414.8 |
| 57° | 366.7 | 373.3 | 373.3 | 376.4 | 396.2 | 400.6 |
| 57.5° | 353.1 | 359.6 | 359.2 | 362.4 | 381.8 | 386.3 |
| 58° | 339.2 | 345.6 | 345.4 | 348.5 | 367.8 | 372.2 |
| 58.5° | 325.8 | 329.9 | 329.8 | 335.5 | 354.4 | 358.9 |
| 59° | 312.2 | 317.2 | 317.3 | 322.4 | 341.1 | 345.3 |
| 59.5° | 299.0 | 304.6 | 304.7 | 309.4 | 333.7 | 330.3 |
| 60° | 286.1 | 292.1 | 292.2 | 296.4 | 319.4 | 317.8 |
| 60.5° | 273.8 | 279.6 | 279.7 | 283.3 | 305.0 | 305.4 |
| 61° | 261.1 | 266.9 | 267.3 | 270.3 | 290.5 | 293.0 |
| 61.5° | 249.1 | 254.9 | 255.3 | 258.2 | 276.2 | 280.6 |
| 62° | 237.1 | 243.0 | 243.3 | 246.4 | 264.2 | 268.7 |
| 62.5° | 225.5 | 231.2 | 231.6 | 234.7 | 252.2 | 256.5 |
| 63° | 214.2 | 219.6 | 220.3 | 223.2 | 240.3 | 244.7 |
| 63.5° | 203.0 | 208.4 | 209.2 | 212.2 | 228.6 | 233.2 |
| 64° | 192.1 | 197.5 | 198.3 | 201.3 | 217.6 | 221.9 |
| 64.5° | 181.6 | 186.8 | 187.7 | 190.8 | 206.3 | 210.6 |
| 65° | 171.0 | 176.4 | 177.3 | 180.3 | 195.7 | 200.0 |
| 65.5° | 161.3 | 166.2 | 167.2 | 170.3 | 185.3 | 189.3 |
| 66° | 151.5 | 156.3 | 157.4 | 160.4 | 174.9 | 178.9 |
| 66.5° | 142.1 | 146.8 | 147.8 | 150.9 | 164.8 | 168.7 |
| 67° | 133.1 | 137.4 | 138.6 | 141.8 | 155.3 | 158.9 |



TEST NUMBER: P640155

CATALOG NUMBER: LCR630RD9FSE010-42W-2700K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|-------|--------|-------|--------|-------|
| 67.5° | 124.2 | 128.6 | 129.8 | 132.9 | 145.7 | 149.4 |
| 68° | 115.8 | 120.0 | 121.3 | 124.3 | 136.7 | 139.9 |
| 68.5° | 107.9 | 111.8 | 113.2 | 116.0 | 127.9 | 130.9 |
| 69° | 100.2 | 103.8 | 105.1 | 107.8 | 119.4 | 122.1 |
| 69.5° | 92.9 | 96.3 | 97.6 | 100.2 | 111.2 | 113.3 |
| 70° | 86.6 | 89.1 | 90.6 | 93.2 | 103.2 | 105.2 |
| 70.5° | 80.3 | 82.7 | 83.9 | 86.3 | 95.8 | 97.2 |
| 71° | 74.0 | 76.4 | 77.6 | 79.6 | 88.6 | 89.6 |
| 71.5° | 67.7 | 70.6 | 71.7 | 73.6 | 81.9 | 82.2 |
| 72° | 62.5 | 65.2 | 66.2 | 68.1 | 75.5 | 75.7 |
| 72.5° | 57.8 | 60.5 | 61.2 | 62.8 | 69.5 | 69.4 |
| 73° | 53.5 | 56.0 | 56.7 | 57.8 | 63.9 | 63.8 |
| 73.5° | 49.6 | 52.0 | 52.6 | 53.5 | 58.8 | 58.6 |
| 74° | 46.0 | 48.1 | 48.6 | 49.6 | 54.1 | 53.9 |
| 74.5° | 43.0 | 44.9 | 45.2 | 46.0 | 50.0 | 49.8 |
| 75° | 40.9 | 42.3 | 42.6 | 42.9 | 46.3 | 45.9 |
| 75.5° | 39.0 | 40.3 | 40.5 | 40.7 | 43.0 | 43.0 |
| 76° | 37.1 | 38.3 | 38.5 | 38.8 | 40.3 | 41.0 |
| 76.5° | 35.2 | 36.4 | 36.6 | 36.9 | 38.4 | 38.8 |
| 77° | 33.4 | 34.5 | 34.8 | 35.1 | 36.6 | 36.9 |
| 77.5° | 31.6 | 32.8 | 33.4 | 33.3 | 34.8 | 35.1 |
| 78° | 29.8 | 31.0 | 31.6 | 31.5 | 33.4 | 33.3 |
| 78.5° | 28.1 | 29.3 | 29.7 | 29.7 | 31.6 | 31.5 |
| 79° | 26.4 | 27.5 | 27.9 | 28.0 | 29.7 | 29.8 |
| 79.5° | 24.7 | 25.8 | 26.0 | 26.2 | 27.9 | 28.1 |
| 80° | 23.1 | 24.1 | 24.3 | 24.5 | 26.0 | 26.3 |
| 80.5° | 21.5 | 22.6 | 22.8 | 22.8 | 24.3 | 24.6 |
| 81° | 19.9 | 20.9 | 21.2 | 21.2 | 22.6 | 22.9 |
| 81.5° | 18.4 | 19.4 | 19.6 | 19.7 | 20.9 | 21.3 |
| 82° | 16.9 | 17.8 | 18.0 | 18.2 | 19.3 | 19.6 |
| 82.5° | 15.3 | 16.3 | 16.5 | 16.7 | 17.7 | 18.1 |
| 83° | 13.9 | 14.8 | 15.0 | 15.1 | 16.1 | 16.5 |
| 83.5° | 12.4 | 13.3 | 13.5 | 13.6 | 14.6 | 14.9 |
| 84° | 11.0 | 11.9 | 12.1 | 12.1 | 13.1 | 13.4 |
| 84.5° | 9.7 | 10.4 | 10.7 | 10.7 | 11.6 | 11.9 |
| 85° | 8.3 | 9.1 | 9.3 | 9.4 | 10.1 | 10.5 |
| 85.5° | 6.9 | 7.7 | 7.9 | 8.0 | 8.6 | 9.0 |
| 86° | 5.6 | 6.3 | 6.5 | 6.6 | 7.3 | 7.6 |
| 86.5° | 4.2 | 5.0 | 5.2 | 5.3 | 6.1 | 6.3 |
| 87° | 3.0 | 3.7 | 3.9 | 4.1 | 4.9 | 5.1 |
| 87.5° | 1.7 | 2.8 | 3.0 | 2.9 | 3.7 | 4.0 |
| 88° | 0.6 | 1.9 | 2.0 | 1.7 | 2.9 | 3.2 |
| 88.5° | 0.1 | 1.0 | 1.1 | 1.4 | 2.0 | 2.5 |
| 89° | 0.1 | 0.1 | 0.1 | 1.0 | 1.1 | 1.7 |
| 89.5° | 0.1 | 0.1 | 0.1 | 0.7 | 0.2 | 0.9 |



TEST NUMBER: P640155
 CATALOG NUMBER: LCR630RD9FSE010-42W-2700K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|------|--------|------|--------|------|
| 90° | 0.1 | 0.1 | 0.1 | 0.4 | 0.1 | 0.2 |
| 90.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 91° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 91.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 92° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 92.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 93° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 93.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 94° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 94.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 95° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 95.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 96° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 96.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 97° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 97.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 98° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 98.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 99° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 99.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 100° | 0.1 | 0.2 | 0.1 | 0.2 | 0.1 | 0.2 |
| 100.5° | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 101° | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 101.5° | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 102° | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 102.5° | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 103° | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 103.5° | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 104° | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 104.5° | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 105° | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 105.5° | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 106° | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 106.5° | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 107° | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 107.5° | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 108° | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 108.5° | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 109° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 109.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 110° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 110.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 111° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 111.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 112° | 0.2 | 0.3 | 0.2 | 0.3 | 0.2 | 0.3 |



TEST NUMBER: P640155

CATALOG NUMBER: LCR630RD9FSE010-42W-2700K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|------|--------|------|--------|------|
| 112.5° | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 113° | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 113.5° | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 114° | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 114.5° | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 115° | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 115.5° | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 116° | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 116.5° | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 117° | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 117.5° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 118° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 118.5° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 119° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 119.5° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 120° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.4 |
| 120.5° | 0.3 | 0.4 | 0.3 | 0.4 | 0.4 | 0.4 |
| 121° | 0.3 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 121.5° | 0.3 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 122° | 0.3 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 122.5° | 0.3 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 123° | 0.3 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 123.5° | 0.3 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 124° | 0.3 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 124.5° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 125° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 125.5° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 126° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 126.5° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 127° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 127.5° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.5 |
| 128° | 0.4 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 128.5° | 0.4 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 129° | 0.4 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 129.5° | 0.4 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 130° | 0.4 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 130.5° | 0.4 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 131° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 131.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 132° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 132.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 133° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 133.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 134° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.6 |
| 134.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.6 |



TEST NUMBER: P640155
 CATALOG NUMBER: LCR630RD9FSE010-42W-2700K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|------|--------|------|--------|------|
| 135° | 0.5 | 0.5 | 0.5 | 0.5 | 0.6 | 0.6 |
| 135.5° | 0.5 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 136° | 0.5 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 136.5° | 0.5 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 137° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 137.5° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 138° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 138.5° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 139° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 139.5° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 140° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 140.5° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 141° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 141.5° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 142° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 142.5° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 143° | 0.7 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 143.5° | 0.7 | 0.6 | 0.6 | 0.6 | 0.6 | 0.7 |
| 144° | 0.7 | 0.6 | 0.6 | 0.6 | 0.6 | 0.7 |
| 144.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 145° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 145.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 146° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 146.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 147° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 147.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 148° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 148.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 149° | 0.8 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 149.5° | 0.8 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 150° | 0.8 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 150.5° | 0.8 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 151° | 0.8 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 151.5° | 0.8 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 152° | 0.8 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 152.5° | 0.8 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 153° | 0.8 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 153.5° | 0.8 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 154° | 0.8 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 154.5° | 0.8 | 0.7 | 0.7 | 0.7 | 0.7 | 0.8 |
| 155° | 0.8 | 0.7 | 0.7 | 0.7 | 0.7 | 0.8 |
| 155.5° | 0.9 | 0.7 | 0.7 | 0.7 | 0.7 | 0.8 |
| 156° | 0.9 | 0.7 | 0.7 | 0.7 | 0.8 | 0.8 |
| 156.5° | 0.9 | 0.7 | 0.7 | 0.7 | 0.8 | 0.8 |
| 157° | 0.9 | 0.7 | 0.7 | 0.7 | 0.8 | 0.8 |



TEST NUMBER: P640155
 CATALOG NUMBER: LCR630RD9FSE010-42W-2700K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|------|--------|------|--------|------|
| 157.5° | 0.9 | 0.7 | 0.7 | 0.7 | 0.8 | 0.8 |
| 158° | 0.9 | 0.7 | 0.7 | 0.7 | 0.8 | 0.8 |
| 158.5° | 0.9 | 0.7 | 0.7 | 0.8 | 0.8 | 0.8 |
| 159° | 0.9 | 0.7 | 0.7 | 0.8 | 0.8 | 0.8 |
| 159.5° | 0.9 | 0.7 | 0.7 | 0.8 | 0.8 | 0.8 |
| 160° | 0.9 | 0.7 | 0.7 | 0.8 | 0.8 | 0.8 |
| 160.5° | 0.9 | 0.7 | 0.7 | 0.8 | 0.8 | 0.8 |
| 161° | 0.9 | 0.7 | 0.8 | 0.8 | 0.8 | 0.8 |
| 161.5° | 0.9 | 0.7 | 0.8 | 0.8 | 0.8 | 0.8 |
| 162° | 0.9 | 0.7 | 0.8 | 0.8 | 0.8 | 0.8 |
| 162.5° | 0.9 | 0.7 | 0.8 | 0.8 | 0.8 | 0.8 |
| 163° | 0.9 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 163.5° | 0.9 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 164° | 0.9 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 164.5° | 0.9 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 165° | 0.9 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 165.5° | 0.9 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 166° | 0.9 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 166.5° | 0.9 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 167° | 0.9 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 167.5° | 1.0 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 168° | 1.0 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 168.5° | 1.0 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 169° | 1.0 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 169.5° | 1.0 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 170° | 1.0 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 170.5° | 1.0 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 171° | 1.0 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 171.5° | 1.0 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 172° | 1.0 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 172.5° | 1.0 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 173° | 1.0 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 173.5° | 1.0 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 174° | 1.0 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 174.5° | 1.0 | 0.8 | 0.8 | 0.9 | 0.9 | 0.8 |
| 175° | 1.0 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 175.5° | 1.0 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 176° | 1.0 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 176.5° | 1.0 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 177° | 1.0 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 177.5° | 1.0 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 178° | 1.0 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 178.5° | 1.0 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 179° | 1.0 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 179.5° | 1.0 | 1.0 | 1.0 | 1.0 | 0.9 | 0.9 |



TEST NUMBER: P640155
CATALOG NUMBER: LCR630RD9FSE010-42W-2700K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|------|--------|------|--------|------|--------|------|
| 180° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |

(END OF REPORT)