

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P244156

Luminaire Tested: **LSR8B40D010 EC8B409730 8LBSW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244156
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-53)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B40D010 EC8B409730 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3427.0 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.2 / 1.11
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

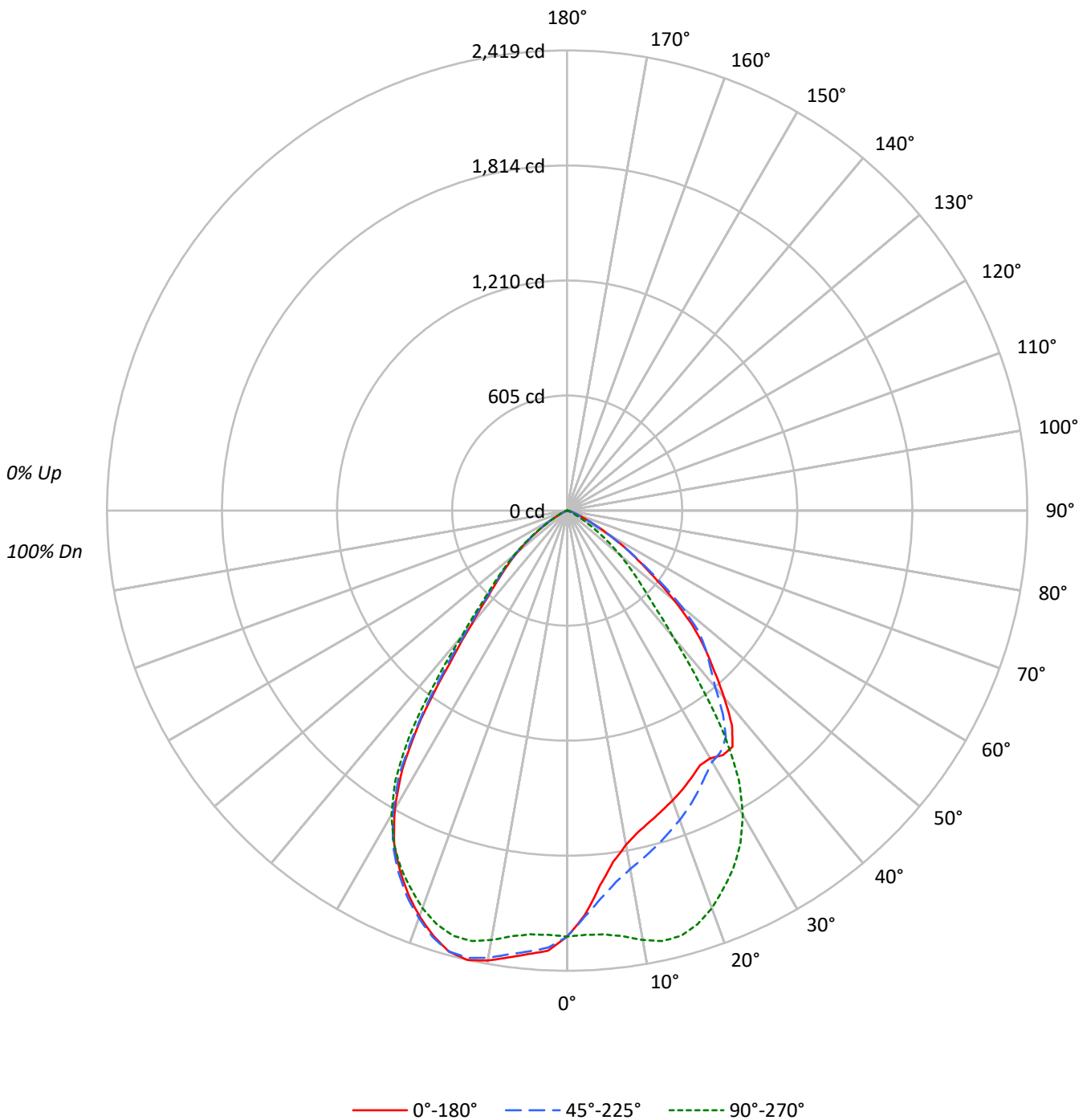
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P244156

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Luminous Intensity Polar Plot





TEST NUMBER: P244156

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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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99 | 99 | 97 | 96 | 96 | 94 | 93 | 91 |
| 2 | 105 | 99 | 95 | 91 | 103 | 98 | 93 | 90 | 94 | 91 | 88 | 91 | 88 | 86 | 88 | 86 | 84 | 82 |
| 3 | 99 | 91 | 85 | 80 | 96 | 89 | 84 | 79 | 87 | 82 | 78 | 84 | 80 | 77 | 82 | 78 | 76 | 74 |
| 4 | 92 | 83 | 76 | 71 | 90 | 82 | 76 | 71 | 80 | 74 | 70 | 77 | 73 | 69 | 76 | 72 | 68 | 67 |
| 5 | 86 | 76 | 69 | 64 | 84 | 75 | 69 | 64 | 73 | 68 | 63 | 72 | 66 | 63 | 70 | 65 | 62 | 60 |
| 6 | 81 | 70 | 63 | 58 | 79 | 69 | 63 | 58 | 68 | 62 | 57 | 66 | 61 | 57 | 65 | 60 | 56 | 55 |
| 7 | 76 | 65 | 58 | 53 | 74 | 64 | 57 | 52 | 63 | 57 | 52 | 61 | 56 | 52 | 60 | 55 | 52 | 50 |
| 8 | 71 | 60 | 53 | 48 | 70 | 59 | 53 | 48 | 58 | 52 | 48 | 57 | 52 | 48 | 56 | 51 | 47 | 46 |
| 9 | 67 | 56 | 49 | 44 | 66 | 55 | 49 | 44 | 54 | 48 | 44 | 53 | 48 | 44 | 52 | 47 | 44 | 42 |
| 10 | 63 | 52 | 45 | 41 | 62 | 52 | 45 | 41 | 51 | 45 | 41 | 50 | 44 | 40 | 49 | 44 | 40 | 39 |

AVERAGE LUMINANCE (cd/sqm):

| | | | |
|-----|--|-----|------|
| | 0° | 90° | 180° |
| 0° | Luminaire represents a point source (luminous area is zero). | | |
| 5° | No luminance values can be calculated. | | |
| 10° | | | |
| 15° | | | |
| 20° | | | |
| 25° | | | |
| 30° | | | |
| 35° | | | |
| 40° | | | |
| 45° | | | |
| 50° | | | |
| 55° | | | |
| 60° | | | |
| 65° | | | |
| 70° | | | |
| 75° | | | |
| 80° | | | |
| 85° | | | |



TEST NUMBER: P244156

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 208.7 | 6.1 |
| 10°-20° | 602.7 | 17.6 |
| 20°-30° | 874.7 | 25.5 |
| 30°-40° | 861.5 | 25.1 |
| 40°-50° | 540.0 | 15.8 |
| 50°-60° | 260.6 | 7.6 |
| 60°-70° | 63.1 | 1.8 |
| 70°-80° | 12.7 | 0.4 |
| 80°-90° | 2.9 | 0.1 |
| 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° | 1686.1 | 49.2 |
| 0°-40° | 2547.6 | 74.3 |
| 0°-60° | 3348.3 | 97.7 |
| 0°-90° | 3427.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3427.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2239 | 2239 | 2239 | 2239 | 2239 | |
| 5° | 1979 | 2046 | 2236 | 2326 | 2341 | 183 |
| 15° | 1691 | 1824 | 2314 | 2399 | 2401 | 478 |
| 25° | 1548 | 1629 | 2071 | 2099 | 2084 | 716 |
| 35° | 1516 | 1454 | 1445 | 1363 | 1341 | 917 |
| 45° | 1024 | 1031 | 546 | 524 | 509 | 782 |
| 55° | 455 | 469 | 199 | 196 | 187 | 418 |
| 65° | 106 | 105 | 29 | 25 | 22 | 121 |
| 75° | 26 | 22 | 6 | 3 | 2 | 29 |
| 85° | 8 | 6 | 1 | 0 | 0 | 8 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P244156

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2238.8 | 2238.8 | 2238.8 | 2238.8 | 2238.8 | 2238.8 | 2238.8 | 2238.8 | 2238.8 | 2238.8 | 2238.8 |
| 2.5° | 2128.2 | 2114.7 | 2089.4 | 2120.0 | 2120.0 | 2102.9 | 2137.0 | 2116.4 | 2132.9 | 2158.8 | 2135.8 |
| 5° | 1978.8 | 1967.6 | 1946.4 | 1978.8 | 1982.9 | 1967.0 | 2008.2 | 1992.9 | 2017.0 | 2048.8 | 2045.9 |
| 7.5° | 1860.6 | 1846.4 | 1827.0 | 1860.6 | 1867.0 | 1856.4 | 1895.9 | 1888.8 | 1920.6 | 1961.7 | 1968.8 |
| 10° | 1783.5 | 1768.8 | 1751.7 | 1782.3 | 1787.0 | 1780.0 | 1820.0 | 1815.9 | 1847.0 | 1894.7 | 1913.5 |
| 12.5° | 1728.8 | 1716.4 | 1697.6 | 1730.0 | 1735.3 | 1725.3 | 1762.9 | 1761.1 | 1793.5 | 1843.5 | 1867.0 |
| 15° | 1690.6 | 1675.9 | 1658.8 | 1686.4 | 1693.5 | 1682.3 | 1718.2 | 1714.7 | 1747.6 | 1797.0 | 1823.5 |
| 17.5° | 1654.7 | 1641.2 | 1623.5 | 1649.4 | 1656.4 | 1644.7 | 1680.0 | 1674.1 | 1702.3 | 1749.4 | 1776.4 |
| 20° | 1621.2 | 1606.4 | 1590.6 | 1617.0 | 1621.2 | 1607.6 | 1642.9 | 1635.3 | 1660.6 | 1704.1 | 1730.6 |
| 22.5° | 1586.4 | 1571.2 | 1554.7 | 1580.6 | 1584.7 | 1571.2 | 1603.5 | 1594.7 | 1618.2 | 1657.6 | 1681.7 |
| 25° | 1548.2 | 1534.1 | 1517.6 | 1541.7 | 1545.3 | 1530.6 | 1564.7 | 1553.5 | 1574.1 | 1608.8 | 1628.8 |
| 27.5° | 1510.0 | 1496.4 | 1478.2 | 1502.9 | 1504.7 | 1490.6 | 1521.7 | 1506.4 | 1523.5 | 1555.3 | 1572.3 |
| 30° | 1503.5 | 1488.2 | 1469.4 | 1489.4 | 1490.0 | 1471.7 | 1501.2 | 1482.9 | 1492.3 | 1515.9 | 1525.9 |
| 32.5° | 1524.1 | 1508.8 | 1489.4 | 1505.9 | 1504.1 | 1484.1 | 1512.3 | 1490.0 | 1492.9 | 1505.3 | 1502.9 |
| 35° | 1515.9 | 1497.6 | 1474.7 | 1492.3 | 1492.3 | 1468.2 | 1496.4 | 1470.0 | 1467.0 | 1468.8 | 1454.1 |
| 37.5° | 1422.3 | 1408.2 | 1386.4 | 1403.5 | 1401.7 | 1383.5 | 1405.3 | 1383.5 | 1373.5 | 1369.4 | 1342.9 |
| 40° | 1284.7 | 1267.6 | 1251.2 | 1269.4 | 1271.2 | 1251.7 | 1280.0 | 1255.3 | 1252.3 | 1240.6 | 1209.4 |
| 42.5° | 1145.3 | 1139.4 | 1123.5 | 1138.8 | 1147.0 | 1130.6 | 1154.1 | 1142.3 | 1144.1 | 1141.2 | 1111.7 |
| 45° | 1023.5 | 1013.5 | 1001.7 | 1019.4 | 1024.7 | 1016.5 | 1040.0 | 1032.9 | 1040.0 | 1054.7 | 1030.6 |
| 47.5° | 892.3 | 882.3 | 869.4 | 888.2 | 897.6 | 882.3 | 902.3 | 900.0 | 910.6 | 935.9 | 933.5 |
| 50° | 734.1 | 727.0 | 724.7 | 727.0 | 732.9 | 725.9 | 740.0 | 740.6 | 747.6 | 782.3 | 784.7 |
| 52.5° | 581.2 | 579.4 | 571.2 | 578.8 | 578.8 | 567.6 | 581.8 | 575.3 | 582.3 | 605.9 | 621.2 |
| 55° | 454.7 | 452.9 | 447.6 | 454.7 | 447.1 | 442.9 | 447.1 | 440.6 | 435.3 | 453.5 | 469.4 |
| 57.5° | 354.1 | 348.2 | 341.8 | 344.7 | 344.1 | 335.3 | 340.0 | 332.3 | 328.2 | 334.7 | 348.8 |
| 60° | 252.3 | 250.6 | 244.7 | 247.6 | 250.0 | 243.5 | 248.2 | 244.7 | 237.6 | 242.9 | 243.5 |
| 62.5° | 167.6 | 168.8 | 165.3 | 165.9 | 164.1 | 162.9 | 165.9 | 167.6 | 165.9 | 163.5 | 164.1 |
| 65° | 106.5 | 105.9 | 105.3 | 105.9 | 107.1 | 104.7 | 106.5 | 107.6 | 105.9 | 105.9 | 105.3 |
| 67.5° | 70.6 | 68.8 | 67.1 | 68.2 | 69.4 | 67.6 | 69.4 | 68.8 | 69.4 | 68.8 | 67.1 |
| 70° | 47.6 | 47.1 | 46.5 | 47.1 | 47.1 | 45.9 | 47.1 | 46.5 | 47.1 | 46.5 | 44.7 |
| 72.5° | 34.7 | 34.7 | 34.1 | 34.7 | 34.7 | 33.5 | 34.1 | 32.9 | 33.5 | 32.9 | 31.8 |
| 75° | 25.9 | 25.9 | 25.3 | 25.9 | 25.3 | 24.7 | 25.3 | 24.7 | 23.5 | 23.5 | 22.4 |
| 77.5° | 18.8 | 18.8 | 18.8 | 18.8 | 18.8 | 18.2 | 18.2 | 17.6 | 17.1 | 16.5 | 16.5 |
| 80° | 14.1 | 13.5 | 13.5 | 13.5 | 13.5 | 12.9 | 13.5 | 12.9 | 12.4 | 11.8 | 11.2 |
| 82.5° | 10.0 | 10.6 | 10.0 | 10.0 | 10.0 | 9.4 | 10.0 | 9.4 | 9.4 | 8.8 | 7.6 |
| 85° | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.1 | 7.1 | 7.1 | 6.5 | 6.5 | 5.9 |
| 87.5° | 4.1 | 4.1 | 4.1 | 4.7 | 4.1 | 4.1 | 4.1 | 3.5 | 3.5 | 2.9 | 2.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2238.8 | 2238.8 | 2238.8 | 2238.8 | 2238.8 | 2238.8 | 2238.8 | 2238.8 | 2238.8 | 2238.8 | 2238.8 |
| 2.5° | 2166.4 | 2169.4 | 2162.9 | 2172.9 | 2211.7 | 2180.6 | 2193.5 | 2197.6 | 2227.0 | 2232.3 | 2228.8 |
| 5° | 2084.1 | 2097.0 | 2105.3 | 2127.6 | 2170.6 | 2148.2 | 2171.1 | 2185.8 | 2223.5 | 2235.8 | 2238.8 |
| 7.5° | 2019.4 | 2046.4 | 2066.4 | 2102.9 | 2153.5 | 2136.4 | 2171.1 | 2195.3 | 2241.1 | 2257.0 | 2264.7 |
| 10° | 1971.1 | 2012.3 | 2047.0 | 2097.0 | 2154.1 | 2142.9 | 2188.2 | 2222.3 | 2273.5 | 2292.3 | 2301.7 |
| 12.5° | 1934.7 | 1984.7 | 2031.1 | 2094.7 | 2156.4 | 2151.1 | 2205.8 | 2244.7 | 2298.8 | 2317.6 | 2328.8 |
| 15° | 1894.7 | 1952.3 | 2006.4 | 2077.6 | 2144.1 | 2142.9 | 2201.7 | 2242.9 | 2298.2 | 2314.1 | 2324.7 |
| 17.5° | 1847.0 | 1908.8 | 1968.2 | 2045.3 | 2111.1 | 2112.3 | 2171.7 | 2212.3 | 2266.4 | 2279.4 | 2286.4 |
| 20° | 1798.8 | 1860.0 | 1919.4 | 1998.8 | 2063.5 | 2065.3 | 2123.5 | 2161.1 | 2212.9 | 2223.5 | 2225.3 |
| 22.5° | 1747.6 | 1804.7 | 1864.1 | 1942.9 | 2005.3 | 2006.4 | 2064.1 | 2099.4 | 2143.5 | 2148.8 | 2153.5 |
| 25° | 1689.4 | 1745.3 | 1801.1 | 1879.4 | 1938.8 | 1942.3 | 1994.7 | 2025.9 | 2066.4 | 2070.6 | 2072.3 |
| 27.5° | 1628.8 | 1674.7 | 1728.2 | 1795.3 | 1855.3 | 1852.9 | 1902.3 | 1937.6 | 1974.1 | 1971.7 | 1971.1 |
| 30° | 1567.6 | 1605.9 | 1638.8 | 1703.5 | 1747.6 | 1749.4 | 1795.9 | 1812.9 | 1851.1 | 1846.4 | 1845.9 |
| 32.5° | 1524.7 | 1534.7 | 1543.5 | 1576.4 | 1618.2 | 1603.5 | 1635.3 | 1656.4 | 1682.9 | 1681.2 | 1681.7 |
| 35° | 1445.9 | 1427.6 | 1401.2 | 1405.9 | 1431.2 | 1408.2 | 1425.3 | 1424.7 | 1451.7 | 1445.3 | 1452.9 |
| 37.5° | 1311.2 | 1259.4 | 1200.6 | 1167.0 | 1171.7 | 1142.9 | 1137.0 | 1151.2 | 1160.6 | 1142.3 | 1148.8 |
| 40° | 1167.6 | 1091.2 | 999.4 | 922.9 | 918.8 | 882.9 | 876.5 | 862.3 | 880.6 | 865.3 | 870.0 |
| 42.5° | 1061.7 | 960.6 | 840.0 | 747.0 | 727.0 | 697.0 | 679.4 | 677.0 | 682.3 | 671.8 | 668.8 |
| 45° | 980.6 | 872.9 | 734.7 | 628.2 | 605.9 | 573.5 | 555.9 | 549.4 | 550.0 | 546.5 | 543.5 |
| 47.5° | 885.3 | 777.0 | 637.0 | 528.2 | 502.9 | 472.3 | 454.7 | 450.6 | 452.9 | 448.2 | 444.7 |
| 50° | 753.5 | 656.5 | 528.8 | 429.4 | 407.1 | 384.7 | 370.6 | 366.5 | 365.9 | 362.3 | 360.0 |
| 52.5° | 611.8 | 531.2 | 420.6 | 337.6 | 317.6 | 295.9 | 285.9 | 280.6 | 281.2 | 277.6 | 274.1 |
| 55° | 473.5 | 423.5 | 325.9 | 255.3 | 237.1 | 220.0 | 210.6 | 204.1 | 202.3 | 198.8 | 197.1 |
| 57.5° | 352.3 | 318.8 | 244.1 | 184.1 | 173.5 | 157.1 | 147.6 | 140.0 | 138.8 | 137.1 | 136.5 |
| 60° | 247.1 | 222.9 | 171.8 | 131.2 | 118.8 | 108.8 | 99.4 | 91.8 | 88.2 | 87.6 | 85.9 |
| 62.5° | 160.0 | 145.3 | 112.9 | 87.6 | 78.2 | 71.2 | 61.8 | 56.5 | 54.1 | 51.8 | 52.4 |
| 65° | 99.4 | 88.2 | 70.6 | 56.5 | 51.2 | 45.9 | 38.8 | 34.1 | 31.8 | 29.4 | 30.0 |
| 67.5° | 61.8 | 55.3 | 44.7 | 36.5 | 32.9 | 28.8 | 23.5 | 20.0 | 18.2 | 16.5 | 15.3 |
| 70° | 41.8 | 35.9 | 30.6 | 25.9 | 23.5 | 20.6 | 17.1 | 14.1 | 12.9 | 11.8 | 10.6 |
| 72.5° | 29.4 | 26.5 | 22.4 | 19.4 | 17.6 | 15.3 | 12.9 | 11.2 | 10.0 | 8.8 | 7.6 |
| 75° | 21.2 | 18.8 | 16.5 | 14.1 | 12.9 | 11.8 | 10.0 | 8.8 | 7.6 | 6.5 | 5.3 |
| 77.5° | 15.3 | 13.5 | 11.8 | 10.6 | 10.0 | 8.2 | 7.1 | 6.5 | 5.9 | 4.7 | 3.5 |
| 80° | 10.6 | 9.4 | 7.6 | 7.1 | 7.1 | 5.9 | 5.3 | 4.7 | 4.1 | 2.9 | 2.4 |
| 82.5° | 7.1 | 6.5 | 5.9 | 5.3 | 4.7 | 4.1 | 4.1 | 2.9 | 2.4 | 1.8 | 1.2 |
| 85° | 5.3 | 4.7 | 4.1 | 3.5 | 3.5 | 2.9 | 2.4 | 1.8 | 1.8 | 1.2 | 0.6 |
| 87.5° | 2.9 | 2.9 | 2.4 | 1.8 | 1.8 | 1.2 | 1.2 | 0.6 | 0.6 | 0.6 | 0.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2238.8 | 2238.8 | 2238.8 | 2238.8 | 2238.8 | 2238.8 | 2238.8 | 2238.8 | 2238.8 | 2238.8 | 2238.8 |
| 2.5° | 2258.8 | 2260.6 | 2270.6 | 2262.9 | 2282.3 | 2296.4 | 2289.4 | 2305.3 | 2300.0 | 2298.8 | 2317.0 |
| 5° | 2274.1 | 2278.2 | 2291.7 | 2284.7 | 2305.8 | 2321.1 | 2314.1 | 2331.7 | 2326.4 | 2325.3 | 2344.1 |
| 7.5° | 2303.5 | 2307.6 | 2319.4 | 2313.5 | 2335.8 | 2349.4 | 2340.6 | 2360.0 | 2352.9 | 2352.3 | 2370.6 |
| 10° | 2340.6 | 2346.4 | 2356.4 | 2350.6 | 2371.1 | 2382.9 | 2374.1 | 2392.9 | 2386.4 | 2383.5 | 2403.5 |
| 12.5° | 2368.2 | 2372.3 | 2382.3 | 2377.6 | 2397.6 | 2406.4 | 2398.8 | 2417.0 | 2408.8 | 2406.4 | 2424.1 |
| 15° | 2361.7 | 2365.8 | 2374.1 | 2370.0 | 2388.8 | 2397.0 | 2387.0 | 2407.0 | 2398.8 | 2394.1 | 2410.0 |
| 17.5° | 2320.6 | 2322.9 | 2328.8 | 2324.7 | 2344.7 | 2350.0 | 2338.8 | 2358.8 | 2351.1 | 2342.9 | 2358.2 |
| 20° | 2260.0 | 2258.8 | 2262.3 | 2260.6 | 2277.0 | 2280.0 | 2272.9 | 2287.6 | 2278.8 | 2274.1 | 2282.9 |
| 22.5° | 2184.7 | 2183.5 | 2185.8 | 2181.1 | 2197.6 | 2199.4 | 2188.8 | 2206.4 | 2197.6 | 2188.8 | 2203.5 |
| 25° | 2101.1 | 2094.7 | 2093.5 | 2095.3 | 2106.4 | 2108.2 | 2097.0 | 2110.0 | 2098.8 | 2091.7 | 2105.9 |
| 27.5° | 1998.2 | 1990.0 | 1988.2 | 1990.0 | 2001.1 | 1992.9 | 1983.5 | 1992.9 | 1981.7 | 1975.3 | 1984.1 |
| 30° | 1871.1 | 1859.4 | 1854.1 | 1850.6 | 1862.3 | 1859.4 | 1837.6 | 1848.2 | 1830.6 | 1821.1 | 1827.6 |
| 32.5° | 1700.0 | 1693.5 | 1679.4 | 1671.2 | 1682.3 | 1660.0 | 1646.4 | 1646.4 | 1639.4 | 1623.5 | 1627.0 |
| 35° | 1462.3 | 1452.3 | 1439.4 | 1432.3 | 1434.1 | 1404.1 | 1381.7 | 1386.4 | 1362.9 | 1358.8 | 1360.6 |
| 37.5° | 1161.7 | 1145.3 | 1140.6 | 1125.9 | 1129.4 | 1102.9 | 1072.3 | 1072.9 | 1060.6 | 1047.6 | 1043.5 |
| 40° | 872.9 | 870.0 | 865.3 | 852.9 | 857.6 | 828.8 | 817.0 | 817.6 | 809.4 | 800.0 | 804.7 |
| 42.5° | 674.7 | 665.3 | 662.3 | 658.2 | 659.4 | 654.7 | 639.4 | 641.2 | 634.1 | 631.8 | 629.4 |
| 45° | 548.2 | 538.2 | 531.2 | 534.7 | 534.7 | 529.4 | 523.5 | 527.1 | 523.5 | 518.8 | 521.2 |
| 47.5° | 451.8 | 442.3 | 438.8 | 438.2 | 442.3 | 438.8 | 432.9 | 434.1 | 433.5 | 431.8 | 430.6 |
| 50° | 360.6 | 358.2 | 355.3 | 353.5 | 355.3 | 354.1 | 348.8 | 351.8 | 353.5 | 347.6 | 349.4 |
| 52.5° | 274.7 | 274.7 | 274.1 | 270.0 | 273.5 | 270.0 | 269.4 | 270.6 | 268.8 | 266.5 | 265.9 |
| 55° | 201.2 | 199.4 | 196.5 | 195.9 | 197.1 | 195.9 | 194.7 | 195.3 | 196.5 | 190.6 | 190.6 |
| 57.5° | 137.6 | 136.5 | 134.7 | 134.7 | 137.1 | 134.1 | 132.4 | 134.7 | 132.4 | 130.0 | 130.0 |
| 60° | 88.2 | 87.6 | 85.9 | 85.9 | 85.9 | 85.3 | 83.5 | 84.1 | 85.3 | 81.8 | 82.4 |
| 62.5° | 52.9 | 51.2 | 50.6 | 50.0 | 50.6 | 50.0 | 50.0 | 49.4 | 48.8 | 48.8 | 47.1 |
| 65° | 28.8 | 27.6 | 26.5 | 27.1 | 27.1 | 26.5 | 26.5 | 26.5 | 25.3 | 24.7 | 24.1 |
| 67.5° | 14.7 | 13.5 | 13.5 | 12.9 | 12.9 | 12.9 | 12.9 | 12.4 | 12.4 | 12.4 | 11.8 |
| 70° | 9.4 | 8.8 | 8.2 | 8.2 | 8.2 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.1 |
| 72.5° | 6.5 | 5.9 | 5.3 | 5.3 | 5.3 | 4.7 | 4.7 | 4.7 | 4.7 | 4.1 | 4.1 |
| 75° | 4.7 | 4.1 | 3.5 | 3.5 | 3.5 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 |
| 77.5° | 2.9 | 2.4 | 2.4 | 2.4 | 2.4 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.2 |
| 80° | 1.8 | 1.8 | 1.2 | 1.2 | 1.2 | 1.2 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 82.5° | 1.2 | 1.2 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.0 |
| 85° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P244156

CATALOG NUMBER: LSR8B40D010 EC8B409730 8LBSWOLI

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2238.8 | 2238.8 | 2238.8 | 2238.8 | 2238.8 | 2238.8 | 2238.8 | 2238.8 |
| 2.5° | 2310.6 | 2305.8 | 2308.8 | 2330.6 | 2321.1 | 2318.2 | 2293.5 | 2315.3 |
| 5° | 2338.2 | 2334.7 | 2334.7 | 2359.4 | 2348.2 | 2345.8 | 2321.7 | 2340.6 |
| 7.5° | 2364.1 | 2360.6 | 2361.1 | 2386.4 | 2377.6 | 2374.1 | 2350.0 | 2368.8 |
| 10° | 2397.6 | 2395.3 | 2395.8 | 2420.0 | 2410.6 | 2407.0 | 2382.3 | 2401.7 |
| 12.5° | 2417.6 | 2414.1 | 2414.1 | 2440.0 | 2429.4 | 2424.1 | 2400.6 | 2419.4 |
| 15° | 2402.3 | 2397.0 | 2397.0 | 2422.9 | 2411.1 | 2403.5 | 2382.9 | 2400.6 |
| 17.5° | 2350.0 | 2344.7 | 2344.7 | 2367.0 | 2358.2 | 2347.0 | 2325.8 | 2342.3 |
| 20° | 2277.0 | 2270.6 | 2268.8 | 2294.7 | 2282.3 | 2272.3 | 2253.5 | 2269.4 |
| 22.5° | 2194.7 | 2191.7 | 2186.4 | 2212.3 | 2201.1 | 2190.6 | 2170.6 | 2182.9 |
| 25° | 2095.9 | 2091.1 | 2085.9 | 2111.1 | 2100.0 | 2089.4 | 2073.5 | 2083.5 |
| 27.5° | 1972.9 | 1973.5 | 1970.6 | 1990.6 | 1979.4 | 1973.5 | 1954.1 | 1970.6 |
| 30° | 1824.1 | 1817.6 | 1815.3 | 1838.8 | 1828.2 | 1820.6 | 1796.4 | 1812.3 |
| 32.5° | 1630.0 | 1620.6 | 1608.2 | 1634.7 | 1616.4 | 1610.0 | 1589.4 | 1612.3 |
| 35° | 1347.6 | 1344.7 | 1333.5 | 1355.9 | 1345.9 | 1334.1 | 1321.2 | 1340.6 |
| 37.5° | 1041.7 | 1044.1 | 1042.9 | 1048.8 | 1042.9 | 1035.3 | 1021.2 | 1014.1 |
| 40° | 795.3 | 789.4 | 784.7 | 795.3 | 782.9 | 782.9 | 774.7 | 783.5 |
| 42.5° | 623.5 | 621.2 | 627.0 | 629.4 | 622.3 | 621.2 | 620.0 | 619.4 |
| 45° | 514.7 | 514.7 | 515.9 | 518.2 | 515.9 | 514.7 | 511.2 | 508.8 |
| 47.5° | 424.1 | 426.5 | 424.1 | 431.8 | 427.6 | 426.5 | 419.4 | 422.3 |
| 50° | 343.5 | 340.6 | 343.5 | 345.9 | 346.5 | 342.9 | 339.4 | 341.2 |
| 52.5° | 266.5 | 261.8 | 260.6 | 264.1 | 261.8 | 261.8 | 259.4 | 258.8 |
| 55° | 187.6 | 189.4 | 186.5 | 189.4 | 188.2 | 186.5 | 184.7 | 187.1 |
| 57.5° | 127.1 | 127.6 | 126.5 | 128.2 | 125.3 | 125.9 | 125.3 | 124.7 |
| 60° | 82.4 | 80.0 | 80.0 | 81.8 | 78.8 | 78.8 | 78.2 | 78.2 |
| 62.5° | 47.1 | 46.5 | 46.5 | 45.9 | 45.3 | 45.3 | 45.3 | 44.1 |
| 65° | 24.1 | 23.5 | 22.9 | 22.9 | 22.9 | 22.9 | 22.4 | 22.4 |
| 67.5° | 11.8 | 11.2 | 11.2 | 11.8 | 11.2 | 11.2 | 11.2 | 11.2 |
| 70° | 7.1 | 7.1 | 6.5 | 7.1 | 6.5 | 6.5 | 6.5 | 6.5 |
| 72.5° | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 |
| 75° | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| 77.5° | 1.8 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| 80° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)