

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: P246095

Luminaire Tested: **LSR8B50D010 EC8B509727 8LBDW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246095
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B50D010 EC8B509727 8LBDW0GPH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3799.0 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

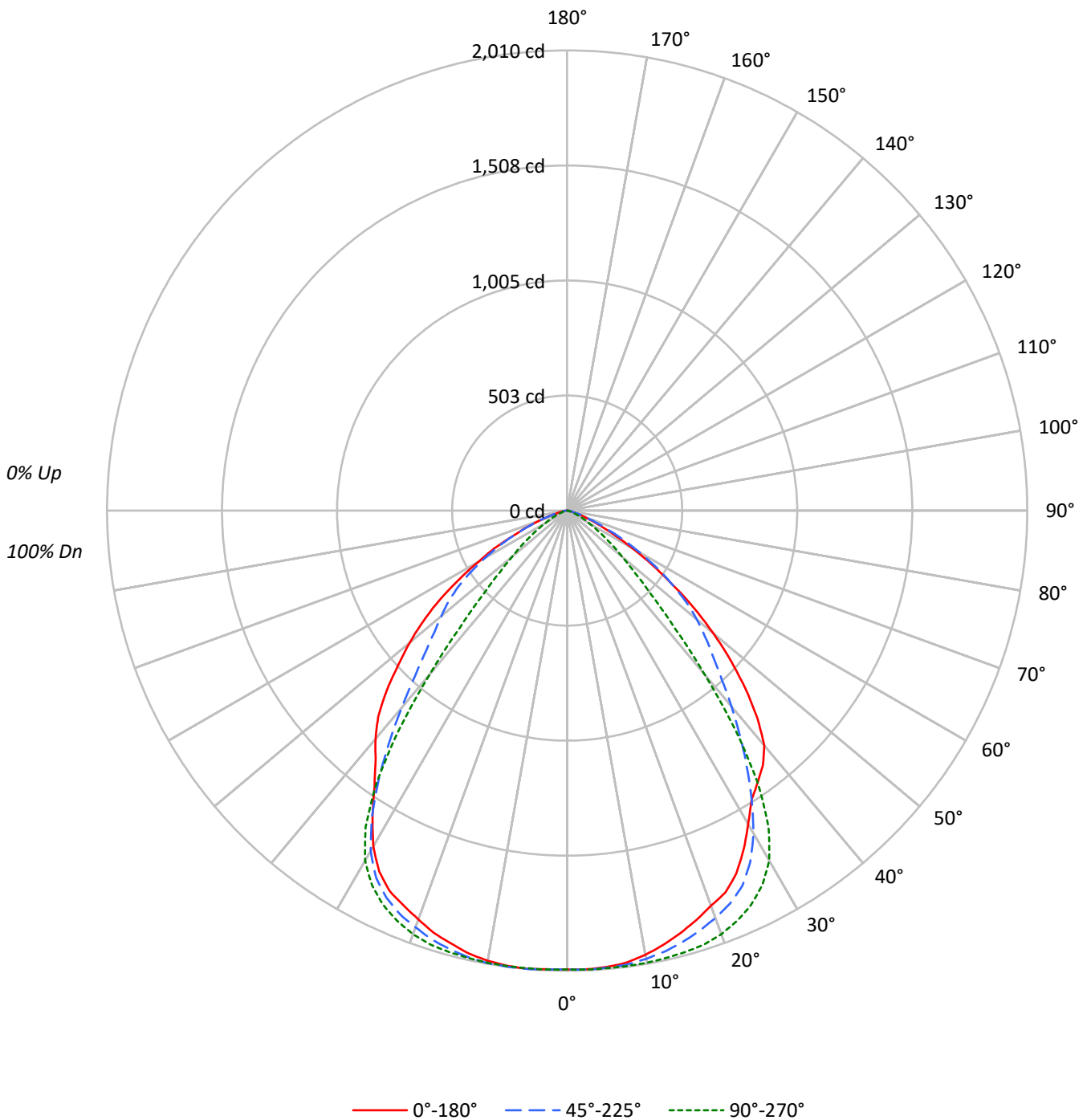
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| RF | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 20 | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| RC | 80 | | | | 70 | | | | 50 | | | | 30 | | | | 10 | | | |
| 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 | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 100 | 102 | 99 | 97 | 98 | 96 | 94 | 94 | 93 | 91 | 90 | | |
| 2 | 104 | 97 | 92 | 88 | 101 | 96 | 91 | 87 | 92 | 88 | 85 | 89 | 86 | 83 | 86 | 83 | 81 | 79 | | |
| 3 | 96 | 88 | 81 | 76 | 94 | 86 | 80 | 75 | 84 | 78 | 74 | 81 | 77 | 73 | 79 | 75 | 72 | 70 | | |
| 4 | 89 | 80 | 72 | 67 | 87 | 78 | 72 | 66 | 76 | 70 | 66 | 74 | 69 | 65 | 72 | 67 | 64 | 62 | | |
| 5 | 83 | 72 | 65 | 59 | 81 | 71 | 64 | 59 | 69 | 63 | 58 | 68 | 62 | 58 | 66 | 61 | 57 | 55 | | |
| 6 | 78 | 66 | 58 | 53 | 76 | 65 | 58 | 53 | 64 | 57 | 52 | 62 | 56 | 52 | 61 | 55 | 51 | 50 | | |
| 7 | 72 | 61 | 53 | 48 | 71 | 60 | 53 | 48 | 59 | 52 | 47 | 57 | 51 | 47 | 56 | 51 | 47 | 45 | | |
| 8 | 68 | 56 | 48 | 43 | 66 | 55 | 48 | 43 | 54 | 48 | 43 | 53 | 47 | 43 | 52 | 46 | 42 | 41 | | |
| 9 | 64 | 52 | 44 | 39 | 62 | 51 | 44 | 39 | 50 | 44 | 39 | 49 | 43 | 39 | 48 | 43 | 39 | 37 | | |
| 10 | 60 | 48 | 41 | 36 | 59 | 48 | 41 | 36 | 47 | 40 | 36 | 46 | 40 | 36 | 45 | 40 | 36 | 34 | | |

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° | | | |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 191.3 | 5.0 |
| 10°-20° | 555.5 | 14.6 |
| 20°-30° | 843.2 | 22.2 |
| 30°-40° | 885.6 | 23.3 |
| 40°-50° | 664.0 | 17.5 |
| 50°-60° | 426.0 | 11.2 |
| 60°-70° | 182.2 | 4.8 |
| 70°-80° | 43.1 | 1.1 |
| 80°-90° | 8.0 | 0.2 |
| 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° | 1590.1 | 41.9 |
| 0°-40° | 2475.7 | 65.2 |
| 0°-60° | 3565.7 | 93.9 |
| 0°-90° | 3799.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3799.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2004 | 2004 | 2004 | 2004 | 2004 | |
| 5° | 2001 | 2004 | 2007 | 2010 | 2009 | 190 |
| 15° | 1911 | 1951 | 1996 | 1983 | 1958 | 539 |
| 25° | 1748 | 1810 | 1901 | 1867 | 1834 | 799 |
| 35° | 1450 | 1370 | 1451 | 1434 | 1466 | 910 |
| 45° | 1102 | 900 | 518 | 875 | 1117 | 844 |
| 55° | 557 | 557 | 193 | 581 | 679 | 506 |
| 65° | 168 | 198 | 61 | 255 | 259 | 179 |
| 75° | 26 | 30 | 9 | 52 | 51 | 38 |
| 85° | 9 | 5 | 4 | 9 | 12 | 9 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2004.4 | 2004.4 | 2004.4 | 2004.4 | 2004.4 | 2004.4 | 2004.4 | 2004.4 | 2004.4 | 2004.4 | 2004.4 |
| 2.5° | 2005.5 | 2007.7 | 2006.6 | 2006.6 | 2005.5 | 2006.6 | 2006.6 | 2008.7 | 2008.7 | 2006.6 | 2005.5 |
| 5° | 2001.2 | 2003.3 | 2003.3 | 2001.2 | 2001.2 | 2006.6 | 2003.3 | 2005.5 | 2005.5 | 2004.4 | 2004.4 |
| 7.5° | 1991.5 | 1991.5 | 1995.8 | 1992.6 | 1992.6 | 1995.8 | 1994.7 | 1996.9 | 1999.1 | 2000.1 | 2000.1 |
| 10° | 1970.0 | 1972.2 | 1973.2 | 1973.2 | 1974.3 | 1977.5 | 1979.7 | 1984.0 | 1986.1 | 1988.3 | 1989.4 |
| 12.5° | 1943.1 | 1946.3 | 1947.4 | 1946.3 | 1949.6 | 1953.9 | 1959.3 | 1964.6 | 1967.9 | 1972.2 | 1975.4 |
| 15° | 1910.8 | 1910.8 | 1913.0 | 1916.2 | 1918.4 | 1924.8 | 1930.2 | 1936.6 | 1945.2 | 1950.6 | 1956.0 |
| 17.5° | 1875.3 | 1877.5 | 1880.7 | 1880.7 | 1885.0 | 1895.8 | 1899.0 | 1908.7 | 1918.4 | 1923.7 | 1934.5 |
| 20° | 1836.6 | 1838.7 | 1842.0 | 1844.1 | 1849.5 | 1858.1 | 1864.6 | 1873.2 | 1883.9 | 1893.6 | 1904.4 |
| 22.5° | 1806.5 | 1802.2 | 1804.3 | 1806.5 | 1811.9 | 1819.4 | 1826.9 | 1837.7 | 1848.4 | 1858.1 | 1868.9 |
| 25° | 1748.4 | 1749.4 | 1752.7 | 1754.8 | 1761.3 | 1767.7 | 1776.3 | 1789.2 | 1798.9 | 1809.7 | 1821.5 |
| 27.5° | 1669.8 | 1670.9 | 1676.3 | 1676.3 | 1681.6 | 1692.4 | 1697.8 | 1708.6 | 1721.5 | 1732.2 | 1746.2 |
| 30° | 1580.5 | 1582.7 | 1582.7 | 1587.0 | 1590.2 | 1595.6 | 1601.0 | 1611.7 | 1618.2 | 1627.9 | 1647.2 |
| 32.5° | 1498.8 | 1500.9 | 1499.8 | 1498.8 | 1495.5 | 1494.4 | 1493.4 | 1495.5 | 1497.7 | 1500.9 | 1508.4 |
| 35° | 1450.3 | 1444.9 | 1440.7 | 1433.1 | 1424.5 | 1413.8 | 1404.1 | 1391.2 | 1379.3 | 1369.6 | 1358.9 |
| 37.5° | 1404.1 | 1403.0 | 1396.5 | 1385.8 | 1368.6 | 1349.2 | 1326.6 | 1298.6 | 1270.6 | 1240.5 | 1211.5 |
| 40° | 1339.5 | 1336.3 | 1330.9 | 1315.8 | 1296.5 | 1272.8 | 1242.7 | 1208.3 | 1163.1 | 1116.8 | 1069.5 |
| 42.5° | 1229.8 | 1230.8 | 1224.4 | 1212.5 | 1194.3 | 1171.7 | 1140.5 | 1102.8 | 1054.4 | 999.5 | 938.2 |
| 45° | 1101.7 | 1101.7 | 1099.6 | 1089.9 | 1077.0 | 1058.7 | 1035.0 | 1003.8 | 956.5 | 900.5 | 834.9 |
| 47.5° | 968.3 | 969.4 | 966.2 | 964.0 | 958.6 | 946.8 | 929.6 | 905.9 | 872.6 | 818.8 | 753.1 |
| 50° | 832.8 | 832.8 | 838.1 | 837.1 | 837.1 | 832.8 | 825.2 | 811.2 | 782.2 | 739.2 | 677.8 |
| 52.5° | 697.2 | 699.3 | 702.6 | 706.9 | 712.2 | 720.9 | 712.2 | 705.8 | 687.5 | 654.1 | 601.4 |
| 55° | 557.3 | 559.5 | 564.8 | 572.4 | 578.9 | 587.5 | 589.6 | 589.6 | 579.9 | 557.3 | 517.5 |
| 57.5° | 437.9 | 434.7 | 439.0 | 445.4 | 454.0 | 462.7 | 469.1 | 476.6 | 475.6 | 460.5 | 428.2 |
| 60° | 329.2 | 330.3 | 333.5 | 340.0 | 346.4 | 354.0 | 362.6 | 369.0 | 372.3 | 364.7 | 344.3 |
| 62.5° | 239.9 | 239.9 | 244.2 | 250.7 | 253.9 | 264.7 | 270.1 | 273.3 | 276.5 | 275.4 | 262.5 |
| 65° | 167.9 | 170.0 | 172.1 | 175.4 | 178.6 | 185.0 | 188.3 | 194.7 | 196.9 | 198.0 | 188.3 |
| 67.5° | 118.4 | 115.1 | 117.3 | 119.4 | 122.7 | 127.0 | 133.4 | 133.4 | 136.6 | 136.6 | 130.2 |
| 70° | 75.3 | 75.3 | 76.4 | 79.6 | 81.8 | 82.8 | 85.0 | 87.1 | 90.4 | 89.3 | 89.3 |
| 72.5° | 50.6 | 49.5 | 50.6 | 51.7 | 52.7 | 55.9 | 55.9 | 57.0 | 59.2 | 60.3 | 55.9 |
| 75° | 25.8 | 26.9 | 29.0 | 28.0 | 31.2 | 29.0 | 30.1 | 33.4 | 32.3 | 30.1 | 30.1 |
| 77.5° | 21.5 | 21.5 | 21.5 | 20.5 | 22.6 | 22.6 | 21.5 | 23.7 | 22.6 | 22.6 | 21.5 |
| 80° | 15.1 | 16.1 | 15.1 | 14.0 | 15.1 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 12.9 |
| 82.5° | 11.8 | 9.7 | 10.8 | 9.7 | 10.8 | 10.8 | 9.7 | 8.6 | 8.6 | 9.7 | 8.6 |
| 85° | 8.6 | 6.5 | 7.5 | 7.5 | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 | 5.4 | 5.4 |
| 87.5° | 5.4 | 3.2 | 3.2 | 3.2 | 4.3 | 4.3 | 4.3 | 3.2 | 4.3 | 4.3 | 2.2 |
| 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):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2004.4 | 2004.4 | 2004.4 | 2004.4 | 2004.4 | 2004.4 | 2004.4 | 2004.4 | 2004.4 | 2004.4 | 2004.4 |
| 2.5° | 2007.7 | 2006.6 | 2008.7 | 2007.7 | 2007.7 | 2006.6 | 2007.7 | 2006.6 | 2008.7 | 2004.4 | 2005.5 |
| 5° | 2007.7 | 2005.5 | 2006.6 | 2007.7 | 2008.7 | 2006.6 | 2006.6 | 2006.6 | 2008.7 | 2006.6 | 2007.7 |
| 7.5° | 2003.3 | 2002.3 | 2005.5 | 2007.7 | 2006.6 | 2005.5 | 2007.7 | 2006.6 | 2008.7 | 2007.7 | 2009.8 |
| 10° | 1994.7 | 1995.8 | 1998.0 | 2001.2 | 2002.3 | 2003.3 | 2005.5 | 2005.5 | 2008.7 | 2004.4 | 2006.6 |
| 12.5° | 1981.8 | 1986.1 | 1991.5 | 1993.7 | 1998.0 | 1998.0 | 2000.1 | 2001.2 | 2003.3 | 2002.3 | 2005.5 |
| 15° | 1965.7 | 1971.1 | 1977.5 | 1982.9 | 1988.3 | 1991.5 | 1994.7 | 1995.8 | 1999.1 | 1995.8 | 1996.9 |
| 17.5° | 1946.3 | 1952.8 | 1962.5 | 1968.9 | 1977.5 | 1980.8 | 1985.1 | 1987.2 | 1990.4 | 1988.3 | 1989.4 |
| 20° | 1919.4 | 1927.0 | 1937.7 | 1947.4 | 1952.8 | 1960.3 | 1965.7 | 1968.9 | 1971.1 | 1968.9 | 1970.0 |
| 22.5° | 1881.8 | 1892.5 | 1906.5 | 1914.1 | 1924.8 | 1931.3 | 1932.3 | 1939.9 | 1945.2 | 1939.9 | 1942.0 |
| 25° | 1837.7 | 1848.4 | 1859.2 | 1875.3 | 1885.0 | 1892.5 | 1900.1 | 1901.2 | 1906.5 | 1905.4 | 1904.4 |
| 27.5° | 1764.5 | 1778.5 | 1796.8 | 1809.7 | 1822.6 | 1834.4 | 1843.0 | 1845.2 | 1850.6 | 1848.4 | 1849.5 |
| 30° | 1664.4 | 1679.5 | 1696.7 | 1717.2 | 1735.5 | 1747.3 | 1758.0 | 1765.6 | 1770.9 | 1767.7 | 1766.7 |
| 32.5° | 1522.4 | 1537.5 | 1555.8 | 1576.2 | 1597.7 | 1614.9 | 1627.9 | 1637.5 | 1644.0 | 1641.8 | 1636.5 |
| 35° | 1360.0 | 1364.3 | 1376.1 | 1392.2 | 1410.5 | 1428.8 | 1440.7 | 1451.4 | 1458.9 | 1461.1 | 1461.1 |
| 37.5° | 1193.2 | 1179.2 | 1170.6 | 1170.6 | 1181.3 | 1188.9 | 1199.6 | 1206.1 | 1217.9 | 1222.2 | 1225.5 |
| 40° | 1031.8 | 999.5 | 969.4 | 946.8 | 931.8 | 930.7 | 930.7 | 933.9 | 944.7 | 958.6 | 971.6 |
| 42.5° | 887.6 | 836.0 | 789.7 | 747.8 | 717.6 | 700.4 | 692.9 | 694.0 | 702.6 | 715.5 | 737.0 |
| 45° | 772.5 | 708.0 | 649.9 | 599.3 | 558.4 | 531.5 | 518.6 | 517.5 | 524.0 | 539.0 | 562.7 |
| 47.5° | 683.2 | 614.3 | 548.7 | 490.6 | 446.5 | 417.4 | 402.4 | 398.1 | 402.4 | 416.4 | 444.4 |
| 50° | 609.0 | 538.0 | 470.2 | 409.9 | 362.6 | 332.5 | 318.5 | 313.1 | 318.5 | 330.3 | 358.3 |
| 52.5° | 540.1 | 466.9 | 403.5 | 345.4 | 294.8 | 269.0 | 253.9 | 250.7 | 253.9 | 267.9 | 290.5 |
| 55° | 460.5 | 398.1 | 335.7 | 277.6 | 233.5 | 207.7 | 195.8 | 192.6 | 195.8 | 208.7 | 232.4 |
| 57.5° | 382.0 | 328.2 | 273.3 | 220.6 | 182.9 | 160.3 | 149.6 | 145.2 | 152.8 | 161.4 | 189.4 |
| 60° | 308.8 | 265.8 | 219.5 | 173.2 | 142.0 | 121.6 | 113.0 | 111.9 | 114.0 | 124.8 | 144.2 |
| 62.5° | 242.1 | 206.6 | 170.0 | 132.3 | 106.5 | 97.9 | 87.1 | 86.1 | 88.2 | 94.7 | 109.8 |
| 65° | 174.3 | 151.7 | 123.7 | 96.8 | 76.4 | 64.6 | 60.3 | 61.3 | 63.5 | 67.8 | 81.8 |
| 67.5° | 121.6 | 105.4 | 86.1 | 67.8 | 52.7 | 47.3 | 43.0 | 42.0 | 43.0 | 50.6 | 58.1 |
| 70° | 81.8 | 72.1 | 58.1 | 51.7 | 36.6 | 29.0 | 30.1 | 26.9 | 31.2 | 31.2 | 37.6 |
| 72.5° | 53.8 | 47.3 | 38.7 | 30.1 | 25.8 | 20.5 | 20.5 | 19.4 | 21.5 | 22.6 | 28.0 |
| 75° | 28.0 | 21.5 | 21.5 | 15.1 | 10.8 | 5.4 | 9.7 | 8.6 | 7.5 | 8.6 | 10.8 |
| 77.5° | 19.4 | 16.1 | 15.1 | 11.8 | 10.8 | 8.6 | 8.6 | 8.6 | 8.6 | 9.7 | 10.8 |
| 80° | 11.8 | 11.8 | 8.6 | 7.5 | 6.5 | 5.4 | 6.5 | 6.5 | 6.5 | 6.5 | 7.5 |
| 82.5° | 7.5 | 6.5 | 6.5 | 5.4 | 5.4 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 6.5 |
| 85° | 6.5 | 4.3 | 4.3 | 3.2 | 4.3 | 7.5 | 3.2 | 4.3 | 4.3 | 4.3 | 3.2 |
| 87.5° | 2.2 | 3.2 | 3.2 | 3.2 | 2.2 | 1.1 | 2.2 | 3.2 | 3.2 | 5.4 | 4.3 |
| 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):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2004.4 | 2004.4 | 2004.4 | 2004.4 | 2004.4 | 2004.4 | 2004.4 | 2004.4 | 2004.4 | 2004.4 | 2004.4 |
| 2.5° | 2007.7 | 2008.7 | 2008.7 | 2007.7 | 2007.7 | 2005.5 | 2009.8 | 2006.6 | 2007.7 | 2012.0 | 2008.7 |
| 5° | 2009.8 | 2010.9 | 2010.9 | 2009.8 | 2009.8 | 2009.8 | 2010.9 | 2010.9 | 2009.8 | 2008.7 | 2010.9 |
| 7.5° | 2014.1 | 2013.0 | 2013.0 | 2010.9 | 2010.9 | 2008.7 | 2010.9 | 2007.7 | 2009.8 | 2007.7 | 2010.9 |
| 10° | 2008.7 | 2009.8 | 2008.7 | 2007.7 | 2007.7 | 2006.6 | 2006.6 | 2003.3 | 2004.4 | 2001.2 | 2003.3 |
| 12.5° | 2005.5 | 2004.4 | 2004.4 | 2002.3 | 2000.1 | 1998.0 | 1996.9 | 1993.7 | 1993.7 | 1986.1 | 1989.4 |
| 15° | 1996.9 | 1998.0 | 1994.7 | 1990.4 | 1988.3 | 1982.9 | 1980.8 | 1976.4 | 1972.2 | 1966.8 | 1967.9 |
| 17.5° | 1989.4 | 1986.1 | 1981.8 | 1977.5 | 1968.9 | 1964.6 | 1960.3 | 1953.9 | 1951.7 | 1945.2 | 1943.1 |
| 20° | 1966.8 | 1964.6 | 1959.3 | 1951.7 | 1946.3 | 1936.6 | 1932.3 | 1925.9 | 1920.5 | 1914.1 | 1910.8 |
| 22.5° | 1937.7 | 1935.6 | 1929.1 | 1921.6 | 1913.0 | 1908.7 | 1904.4 | 1892.5 | 1887.1 | 1880.7 | 1879.6 |
| 25° | 1901.2 | 1897.9 | 1891.5 | 1882.9 | 1878.5 | 1866.7 | 1862.4 | 1853.8 | 1851.7 | 1845.2 | 1844.1 |
| 27.5° | 1845.2 | 1840.9 | 1833.4 | 1822.6 | 1815.1 | 1807.5 | 1803.2 | 1796.8 | 1794.6 | 1788.2 | 1787.1 |
| 30° | 1761.3 | 1755.9 | 1740.8 | 1736.5 | 1723.6 | 1716.1 | 1716.1 | 1707.5 | 1708.6 | 1704.3 | 1704.3 |
| 32.5° | 1628.9 | 1620.3 | 1608.5 | 1599.9 | 1591.3 | 1587.0 | 1587.0 | 1583.7 | 1585.9 | 1585.9 | 1588.1 |
| 35° | 1453.6 | 1441.7 | 1435.3 | 1429.9 | 1429.9 | 1434.2 | 1447.1 | 1450.3 | 1456.8 | 1462.2 | 1466.5 |
| 37.5° | 1228.7 | 1227.6 | 1235.2 | 1241.6 | 1257.7 | 1276.0 | 1298.6 | 1318.0 | 1336.3 | 1349.2 | 1362.1 |
| 40° | 985.5 | 1012.4 | 1033.9 | 1064.1 | 1088.8 | 1124.3 | 1165.2 | 1198.6 | 1229.8 | 1252.4 | 1276.0 |
| 42.5° | 769.3 | 803.7 | 848.9 | 893.0 | 937.1 | 985.5 | 1039.3 | 1085.6 | 1126.5 | 1157.7 | 1182.4 |
| 45° | 599.3 | 646.6 | 701.5 | 757.4 | 814.5 | 874.7 | 930.7 | 978.0 | 1021.0 | 1053.3 | 1078.1 |
| 47.5° | 483.1 | 534.7 | 597.1 | 658.5 | 723.0 | 786.5 | 848.9 | 889.8 | 925.3 | 951.1 | 973.7 |
| 50° | 399.2 | 454.0 | 519.7 | 589.6 | 654.1 | 717.6 | 771.4 | 811.2 | 840.3 | 862.9 | 876.9 |
| 52.5° | 333.5 | 391.6 | 461.6 | 531.5 | 596.0 | 654.1 | 702.6 | 732.7 | 756.4 | 772.5 | 785.4 |
| 55° | 275.4 | 331.4 | 397.0 | 462.7 | 526.1 | 581.0 | 620.8 | 643.4 | 661.7 | 671.4 | 678.9 |
| 57.5° | 224.9 | 276.5 | 336.8 | 397.0 | 451.9 | 497.1 | 528.3 | 550.9 | 559.5 | 567.0 | 565.9 |
| 60° | 176.5 | 224.9 | 279.7 | 331.4 | 378.7 | 415.3 | 437.9 | 450.8 | 457.3 | 460.5 | 458.3 |
| 62.5° | 138.8 | 182.9 | 224.9 | 270.1 | 304.5 | 335.7 | 357.2 | 357.2 | 360.4 | 361.5 | 364.7 |
| 65° | 103.3 | 136.6 | 173.2 | 206.6 | 234.5 | 255.0 | 266.8 | 270.1 | 274.4 | 273.3 | 271.1 |
| 67.5° | 76.4 | 101.1 | 128.0 | 152.8 | 172.1 | 185.0 | 193.7 | 201.2 | 200.1 | 198.0 | 196.9 |
| 70° | 52.7 | 68.9 | 92.5 | 107.6 | 121.6 | 134.5 | 136.6 | 137.7 | 138.8 | 139.9 | 137.7 |
| 72.5° | 36.6 | 48.4 | 61.3 | 74.2 | 82.8 | 88.2 | 93.6 | 94.7 | 94.7 | 94.7 | 93.6 |
| 75° | 18.3 | 24.7 | 36.6 | 42.0 | 49.5 | 51.7 | 55.9 | 55.9 | 59.2 | 54.9 | 53.8 |
| 77.5° | 16.1 | 19.4 | 25.8 | 30.1 | 33.4 | 36.6 | 37.6 | 40.9 | 39.8 | 37.6 | 38.7 |
| 80° | 9.7 | 11.8 | 16.1 | 18.3 | 22.6 | 23.7 | 24.7 | 25.8 | 24.7 | 25.8 | 25.8 |
| 82.5° | 7.5 | 8.6 | 10.8 | 10.8 | 14.0 | 14.0 | 15.1 | 15.1 | 16.1 | 16.1 | 16.1 |
| 85° | 4.3 | 7.5 | 6.5 | 12.9 | 8.6 | 8.6 | 10.8 | 12.9 | 10.8 | 10.8 | 12.9 |
| 87.5° | 4.3 | 4.3 | 3.2 | 4.3 | 4.3 | 4.3 | 5.4 | 6.5 | 6.5 | 7.5 | 6.5 |
| 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: P246095

CATALOG NUMBER: LSR8B50D010 EC8B509727 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 2004.4 | 2004.4 | 2004.4 | 2004.4 |
| 2.5° | 2007.7 | 2009.8 | 2006.6 | 2005.5 |
| 5° | 2010.9 | 2010.9 | 2008.7 | 2008.7 |
| 7.5° | 2010.9 | 2010.9 | 2007.7 | 2005.5 |
| 10° | 2002.3 | 2002.3 | 1999.1 | 1996.9 |
| 12.5° | 1986.1 | 1986.1 | 1985.1 | 1981.8 |
| 15° | 1965.7 | 1965.7 | 1961.4 | 1958.2 |
| 17.5° | 1937.7 | 1939.9 | 1934.5 | 1934.5 |
| 20° | 1907.6 | 1906.5 | 1902.2 | 1900.1 |
| 22.5° | 1876.4 | 1874.2 | 1873.2 | 1866.7 |
| 25° | 1843.0 | 1840.9 | 1837.7 | 1834.4 |
| 27.5° | 1786.0 | 1784.9 | 1781.7 | 1777.4 |
| 30° | 1698.9 | 1697.8 | 1693.5 | 1693.5 |
| 32.5° | 1585.9 | 1584.8 | 1580.5 | 1581.6 |
| 35° | 1468.6 | 1472.9 | 1470.8 | 1466.5 |
| 37.5° | 1370.7 | 1373.9 | 1376.1 | 1373.9 |
| 40° | 1288.9 | 1298.6 | 1299.7 | 1301.9 |
| 42.5° | 1201.8 | 1214.7 | 1219.0 | 1221.2 |
| 45° | 1097.4 | 1109.3 | 1119.0 | 1116.8 |
| 47.5° | 990.9 | 999.5 | 1008.1 | 1001.7 |
| 50° | 888.7 | 894.1 | 897.3 | 897.3 |
| 52.5° | 791.9 | 791.9 | 790.8 | 791.9 |
| 55° | 681.1 | 681.1 | 676.8 | 678.9 |
| 57.5° | 564.8 | 567.0 | 563.8 | 558.4 |
| 60° | 457.3 | 451.9 | 449.7 | 446.5 |
| 62.5° | 356.1 | 356.1 | 348.6 | 358.3 |
| 65° | 266.8 | 263.6 | 260.4 | 259.3 |
| 67.5° | 193.7 | 192.6 | 189.4 | 188.3 |
| 70° | 136.6 | 132.3 | 131.3 | 129.1 |
| 72.5° | 91.5 | 91.5 | 89.3 | 89.3 |
| 75° | 55.9 | 50.6 | 49.5 | 50.6 |
| 77.5° | 38.7 | 37.6 | 37.6 | 36.6 |
| 80° | 25.8 | 24.7 | 26.9 | 23.7 |
| 82.5° | 16.1 | 17.2 | 16.1 | 17.2 |
| 85° | 10.8 | 12.9 | 11.8 | 11.8 |
| 87.5° | 6.5 | 6.5 | 6.5 | 6.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)