

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: P246160

Luminaire Tested: **LSR8B40D010 EC8B40950 8LBDW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246160
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: LSR8B40D010 EC8B40950 8LBDW0B
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3640.0 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

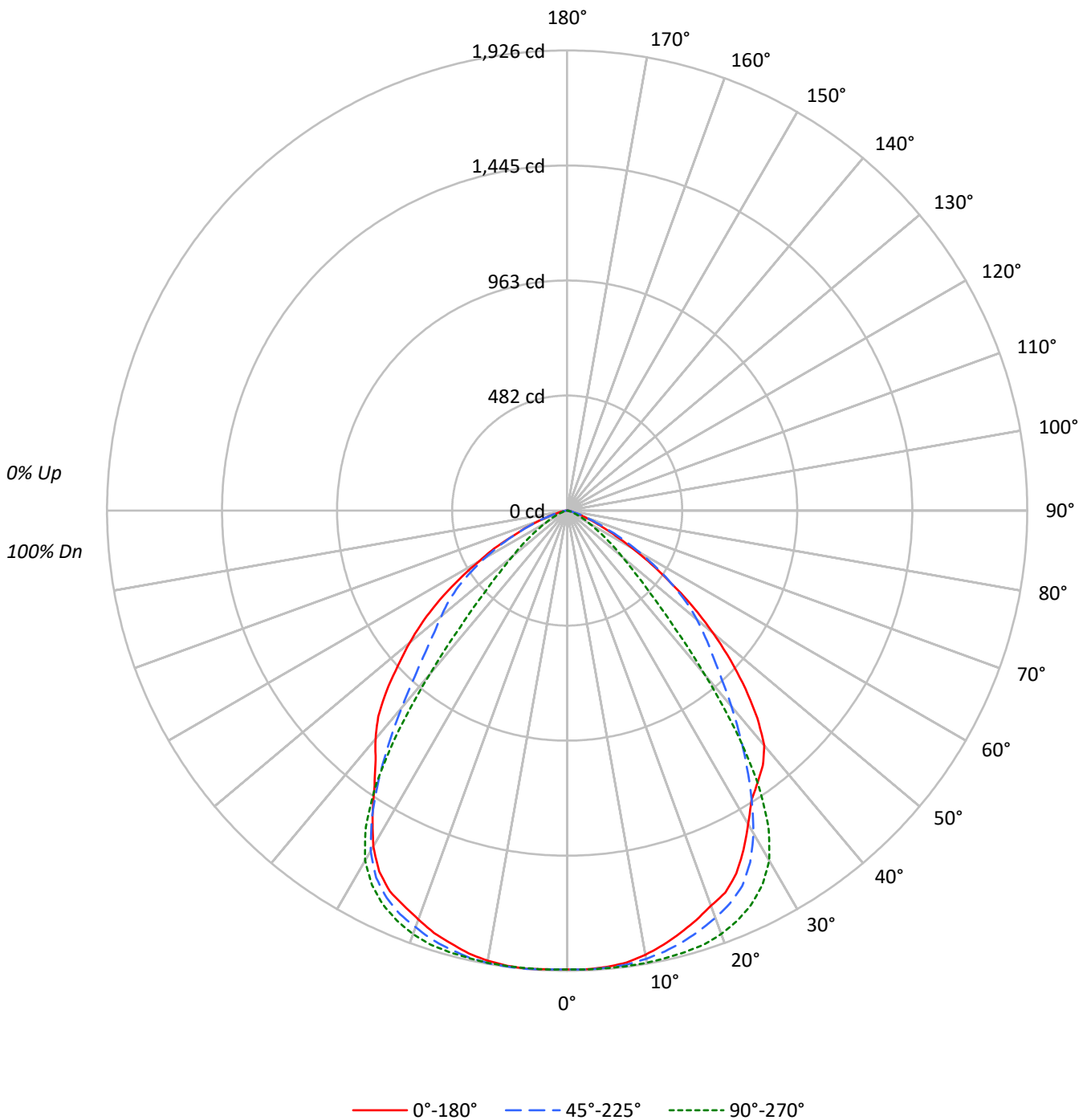
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P246160

CATALOG NUMBER: LSR8B40D010 EC8B40950 8LBDW0B

Luminous Intensity Polar Plot





TEST NUMBER: P246160

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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 | 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° | 59221 | 59221 | 59221 |
| 5° | 59351 | 59512 | 59577 |
| 10° | 59101 | 60169 | 59909 |
| 15° | 58447 | 61048 | 59896 |
| 20° | 57745 | 61906 | 59740 |
| 25° | 56997 | 61978 | 59804 |
| 30° | 53923 | 60236 | 57775 |
| 35° | 52310 | 52352 | 52894 |
| 40° | 51666 | 36019 | 50213 |
| 45° | 46034 | 21626 | 46666 |
| 50° | 38277 | 14392 | 41247 |
| 55° | 28709 | 9919 | 34972 |
| 60° | 19458 | 6611 | 26384 |
| 65° | 11733 | 4290 | 18124 |
| 70° | 6510 | 2326 | 11153 |
| 75° | 2943 | 977 | 5778 |
| 80° | 2557 | 1101 | 4031 |
| 85° | 2901 | 1451 | 4033 |



TEST NUMBER: P246160

CATALOG NUMBER: LSR8B40D010 EC8B40950 8LBDW0B

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 183.3 | 5.0 |
| 10°-20° | 532.3 | 14.6 |
| 20°-30° | 807.9 | 22.2 |
| 30°-40° | 848.6 | 23.3 |
| 40°-50° | 636.2 | 17.5 |
| 50°-60° | 408.2 | 11.2 |
| 60°-70° | 174.6 | 4.8 |
| 70°-80° | 41.3 | 1.1 |
| 80°-90° | 7.7 | 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° | 1523.5 | 41.9 |
| 0°-40° | 2372.1 | 65.2 |
| 0°-60° | 3416.5 | 93.9 |
| 0°-90° | 3640.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3640.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1920 | 1920 | 1920 | 1920 | 1920 | |
| 5° | 1917 | 1920 | 1923 | 1926 | 1925 | 182 |
| 15° | 1831 | 1869 | 1912 | 1900 | 1876 | 516 |
| 25° | 1675 | 1734 | 1822 | 1789 | 1758 | 765 |
| 35° | 1390 | 1312 | 1391 | 1374 | 1405 | 872 |
| 45° | 1056 | 863 | 496 | 838 | 1070 | 808 |
| 55° | 534 | 534 | 184 | 557 | 650 | 484 |
| 65° | 161 | 190 | 59 | 244 | 248 | 172 |
| 75° | 25 | 29 | 8 | 50 | 48 | 36 |
| 85° | 8 | 5 | 4 | 8 | 11 | 9 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P246160

CATALOG NUMBER: LSR8B40D010 EC8B40950 8LBDW0B

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1920.5 | 1920.5 | 1920.5 | 1920.5 | 1920.5 | 1920.5 | 1920.5 | 1920.5 | 1920.5 | 1920.5 | 1920.5 |
| 2.5° | 1921.6 | 1923.6 | 1922.6 | 1922.6 | 1921.6 | 1922.6 | 1922.6 | 1924.7 | 1924.7 | 1922.6 | 1921.6 |
| 5° | 1917.4 | 1919.5 | 1919.5 | 1917.4 | 1917.4 | 1922.6 | 1919.5 | 1921.6 | 1921.6 | 1920.5 | 1920.5 |
| 7.5° | 1908.2 | 1908.2 | 1912.3 | 1909.2 | 1909.2 | 1912.3 | 1911.3 | 1913.3 | 1915.4 | 1916.4 | 1916.4 |
| 10° | 1887.5 | 1889.6 | 1890.6 | 1890.6 | 1891.7 | 1894.8 | 1896.8 | 1901.0 | 1903.0 | 1905.1 | 1906.1 |
| 12.5° | 1861.8 | 1864.9 | 1865.9 | 1864.9 | 1868.0 | 1872.1 | 1877.3 | 1882.4 | 1885.5 | 1889.6 | 1892.7 |
| 15° | 1830.8 | 1830.8 | 1832.9 | 1836.0 | 1838.1 | 1844.3 | 1849.4 | 1855.6 | 1863.8 | 1869.0 | 1874.1 |
| 17.5° | 1796.8 | 1798.9 | 1802.0 | 1802.0 | 1806.1 | 1816.4 | 1819.5 | 1828.8 | 1838.1 | 1843.2 | 1853.5 |
| 20° | 1759.7 | 1761.8 | 1764.9 | 1766.9 | 1772.1 | 1780.3 | 1786.5 | 1794.8 | 1805.1 | 1814.4 | 1824.7 |
| 22.5° | 1730.9 | 1726.7 | 1728.8 | 1730.9 | 1736.0 | 1743.2 | 1750.4 | 1760.7 | 1771.1 | 1780.3 | 1790.7 |
| 25° | 1675.2 | 1676.2 | 1679.3 | 1681.4 | 1687.6 | 1693.7 | 1702.0 | 1714.4 | 1723.6 | 1734.0 | 1745.3 |
| 27.5° | 1599.9 | 1601.0 | 1606.1 | 1606.1 | 1611.3 | 1621.6 | 1626.7 | 1637.0 | 1649.4 | 1659.7 | 1673.1 |
| 30° | 1514.4 | 1516.4 | 1516.4 | 1520.6 | 1523.6 | 1528.8 | 1534.0 | 1544.3 | 1550.4 | 1559.7 | 1578.3 |
| 32.5° | 1436.0 | 1438.1 | 1437.0 | 1436.0 | 1432.9 | 1431.9 | 1430.9 | 1432.9 | 1435.0 | 1438.1 | 1445.3 |
| 35° | 1389.6 | 1384.5 | 1380.4 | 1373.1 | 1364.9 | 1354.6 | 1345.3 | 1332.9 | 1321.6 | 1312.3 | 1302.0 |
| 37.5° | 1345.3 | 1344.3 | 1338.1 | 1327.8 | 1311.3 | 1292.7 | 1271.1 | 1244.3 | 1217.5 | 1188.6 | 1160.8 |
| 40° | 1283.5 | 1280.3 | 1275.2 | 1260.8 | 1242.2 | 1219.5 | 1190.7 | 1157.7 | 1114.4 | 1070.1 | 1024.7 |
| 42.5° | 1178.3 | 1179.3 | 1173.1 | 1161.8 | 1144.3 | 1122.6 | 1092.7 | 1056.7 | 1010.3 | 957.7 | 898.9 |
| 45° | 1055.6 | 1055.6 | 1053.6 | 1044.3 | 1031.9 | 1014.4 | 991.7 | 961.8 | 916.5 | 862.8 | 800.0 |
| 47.5° | 927.8 | 928.8 | 925.7 | 923.7 | 918.5 | 907.2 | 890.7 | 868.0 | 836.1 | 784.5 | 721.6 |
| 50° | 797.9 | 797.9 | 803.1 | 802.0 | 802.0 | 797.9 | 790.7 | 777.3 | 749.5 | 708.2 | 649.5 |
| 52.5° | 668.0 | 670.1 | 673.2 | 677.3 | 682.4 | 690.7 | 682.4 | 676.3 | 658.7 | 626.8 | 576.3 |
| 55° | 534.0 | 536.1 | 541.2 | 548.4 | 554.6 | 562.9 | 564.9 | 564.9 | 555.6 | 534.0 | 495.9 |
| 57.5° | 419.6 | 416.5 | 420.6 | 426.8 | 435.0 | 443.3 | 449.5 | 456.7 | 455.6 | 441.2 | 410.3 |
| 60° | 315.5 | 316.5 | 319.6 | 325.8 | 331.9 | 339.2 | 347.4 | 353.6 | 356.7 | 349.5 | 329.9 |
| 62.5° | 229.9 | 229.9 | 234.0 | 240.2 | 243.3 | 253.6 | 258.7 | 261.9 | 264.9 | 263.9 | 251.5 |
| 65° | 160.8 | 162.9 | 164.9 | 168.0 | 171.1 | 177.3 | 180.4 | 186.6 | 188.7 | 189.7 | 180.4 |
| 67.5° | 113.4 | 110.3 | 112.4 | 114.4 | 117.5 | 121.7 | 127.8 | 127.8 | 130.9 | 130.9 | 124.7 |
| 70° | 72.2 | 72.2 | 73.2 | 76.3 | 78.3 | 79.4 | 81.4 | 83.5 | 86.6 | 85.6 | 85.6 |
| 72.5° | 48.5 | 47.4 | 48.5 | 49.5 | 50.5 | 53.6 | 53.6 | 54.6 | 56.7 | 57.7 | 53.6 |
| 75° | 24.7 | 25.8 | 27.8 | 26.8 | 29.9 | 27.8 | 28.9 | 32.0 | 30.9 | 28.9 | 28.9 |
| 77.5° | 20.6 | 20.6 | 20.6 | 19.6 | 21.6 | 21.6 | 20.6 | 22.7 | 21.6 | 21.6 | 20.6 |
| 80° | 14.4 | 15.5 | 14.4 | 13.4 | 14.4 | 13.4 | 13.4 | 13.4 | 13.4 | 13.4 | 12.4 |
| 82.5° | 11.4 | 9.3 | 10.3 | 9.3 | 10.3 | 10.3 | 9.3 | 8.2 | 8.2 | 9.3 | 8.2 |
| 85° | 8.2 | 6.2 | 7.2 | 7.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 5.1 | 5.1 |
| 87.5° | 5.1 | 3.1 | 3.1 | 3.1 | 4.1 | 4.1 | 4.1 | 3.1 | 4.1 | 4.1 | 2.1 |
| 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: P246160

CATALOG NUMBER: LSR8B40D010 EC8B40950 8LBDW0B

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1920.5 | 1920.5 | 1920.5 | 1920.5 | 1920.5 | 1920.5 | 1920.5 | 1920.5 | 1920.5 | 1920.5 | 1920.5 |
| 2.5° | 1923.6 | 1922.6 | 1924.7 | 1923.6 | 1923.6 | 1922.6 | 1923.6 | 1922.6 | 1924.7 | 1920.5 | 1921.6 |
| 5° | 1923.6 | 1921.6 | 1922.6 | 1923.6 | 1924.7 | 1922.6 | 1922.6 | 1922.6 | 1924.7 | 1922.6 | 1923.6 |
| 7.5° | 1919.5 | 1918.5 | 1921.6 | 1923.6 | 1922.6 | 1921.6 | 1923.6 | 1922.6 | 1924.7 | 1923.6 | 1925.7 |
| 10° | 1911.3 | 1912.3 | 1914.4 | 1917.4 | 1918.5 | 1919.5 | 1921.6 | 1921.6 | 1924.7 | 1920.5 | 1922.6 |
| 12.5° | 1898.9 | 1903.0 | 1908.2 | 1910.2 | 1914.4 | 1914.4 | 1916.4 | 1917.4 | 1919.5 | 1918.5 | 1921.6 |
| 15° | 1883.4 | 1888.6 | 1894.8 | 1899.9 | 1905.1 | 1908.2 | 1911.3 | 1912.3 | 1915.4 | 1912.3 | 1913.3 |
| 17.5° | 1864.9 | 1871.0 | 1880.3 | 1886.5 | 1894.8 | 1897.9 | 1902.0 | 1904.0 | 1907.1 | 1905.1 | 1906.1 |
| 20° | 1839.1 | 1846.3 | 1856.6 | 1865.9 | 1871.0 | 1878.3 | 1883.4 | 1886.5 | 1888.6 | 1886.5 | 1887.5 |
| 22.5° | 1803.0 | 1813.3 | 1826.7 | 1833.9 | 1844.3 | 1850.4 | 1851.5 | 1858.7 | 1863.8 | 1858.7 | 1860.8 |
| 25° | 1760.7 | 1771.1 | 1781.4 | 1796.8 | 1806.1 | 1813.3 | 1820.5 | 1821.6 | 1826.7 | 1825.7 | 1824.7 |
| 27.5° | 1690.6 | 1704.1 | 1721.6 | 1734.0 | 1746.3 | 1757.7 | 1765.9 | 1768.0 | 1773.1 | 1771.1 | 1772.1 |
| 30° | 1594.8 | 1609.2 | 1625.7 | 1645.3 | 1662.8 | 1674.1 | 1684.5 | 1691.7 | 1696.8 | 1693.7 | 1692.7 |
| 32.5° | 1458.7 | 1473.1 | 1490.7 | 1510.2 | 1530.9 | 1547.3 | 1559.7 | 1569.0 | 1575.2 | 1573.1 | 1568.0 |
| 35° | 1303.0 | 1307.2 | 1318.5 | 1334.0 | 1351.5 | 1369.0 | 1380.4 | 1390.7 | 1397.9 | 1399.9 | 1399.9 |
| 37.5° | 1143.3 | 1129.9 | 1121.6 | 1121.6 | 1131.9 | 1139.1 | 1149.4 | 1155.6 | 1167.0 | 1171.1 | 1174.2 |
| 40° | 988.6 | 957.7 | 928.8 | 907.2 | 892.8 | 891.7 | 891.7 | 894.8 | 905.1 | 918.5 | 930.9 |
| 42.5° | 850.5 | 801.0 | 756.7 | 716.5 | 687.6 | 671.1 | 663.9 | 664.9 | 673.2 | 685.5 | 706.1 |
| 45° | 740.2 | 678.3 | 622.7 | 574.2 | 535.0 | 509.2 | 496.9 | 495.9 | 502.0 | 516.5 | 539.2 |
| 47.5° | 654.6 | 588.6 | 525.7 | 470.1 | 427.8 | 400.0 | 385.5 | 381.4 | 385.5 | 398.9 | 425.8 |
| 50° | 583.5 | 515.5 | 450.5 | 392.8 | 347.4 | 318.6 | 305.1 | 300.0 | 305.1 | 316.5 | 343.3 |
| 52.5° | 517.5 | 447.4 | 386.6 | 330.9 | 282.5 | 257.7 | 243.3 | 240.2 | 243.3 | 256.7 | 278.3 |
| 55° | 441.2 | 381.4 | 321.6 | 266.0 | 223.7 | 199.0 | 187.6 | 184.5 | 187.6 | 200.0 | 222.7 |
| 57.5° | 366.0 | 314.4 | 261.9 | 211.3 | 175.3 | 153.6 | 143.3 | 139.2 | 146.4 | 154.6 | 181.4 |
| 60° | 295.9 | 254.6 | 210.3 | 166.0 | 136.1 | 116.5 | 108.2 | 107.2 | 109.3 | 119.6 | 138.1 |
| 62.5° | 232.0 | 197.9 | 162.9 | 126.8 | 102.1 | 93.8 | 83.5 | 82.5 | 84.5 | 90.7 | 105.2 |
| 65° | 167.0 | 145.4 | 118.6 | 92.8 | 73.2 | 61.8 | 57.7 | 58.8 | 60.8 | 65.0 | 78.3 |
| 67.5° | 116.5 | 101.0 | 82.5 | 65.0 | 50.5 | 45.4 | 41.2 | 40.2 | 41.2 | 48.5 | 55.7 |
| 70° | 78.3 | 69.1 | 55.7 | 49.5 | 35.1 | 27.8 | 28.9 | 25.8 | 29.9 | 29.9 | 36.1 |
| 72.5° | 51.5 | 45.4 | 37.1 | 28.9 | 24.7 | 19.6 | 19.6 | 18.6 | 20.6 | 21.6 | 26.8 |
| 75° | 26.8 | 20.6 | 20.6 | 14.4 | 10.3 | 5.1 | 9.3 | 8.2 | 7.2 | 8.2 | 10.3 |
| 77.5° | 18.6 | 15.5 | 14.4 | 11.4 | 10.3 | 8.2 | 8.2 | 8.2 | 8.2 | 9.3 | 10.3 |
| 80° | 11.4 | 11.4 | 8.2 | 7.2 | 6.2 | 5.1 | 6.2 | 6.2 | 6.2 | 6.2 | 7.2 |
| 82.5° | 7.2 | 6.2 | 6.2 | 5.1 | 5.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 6.2 |
| 85° | 6.2 | 4.1 | 4.1 | 3.1 | 4.1 | 7.2 | 3.1 | 4.1 | 4.1 | 4.1 | 3.1 |
| 87.5° | 2.1 | 3.1 | 3.1 | 3.1 | 2.1 | 1.0 | 2.1 | 3.1 | 3.1 | 5.1 | 4.1 |
| 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: P246160

CATALOG NUMBER: LSR8B40D010 EC8B40950 8LBDW0B

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1920.5 | 1920.5 | 1920.5 | 1920.5 | 1920.5 | 1920.5 | 1920.5 | 1920.5 | 1920.5 | 1920.5 | 1920.5 |
| 2.5° | 1923.6 | 1924.7 | 1924.7 | 1923.6 | 1923.6 | 1921.6 | 1925.7 | 1922.6 | 1923.6 | 1927.7 | 1924.7 |
| 5° | 1925.7 | 1926.7 | 1926.7 | 1925.7 | 1925.7 | 1925.7 | 1926.7 | 1926.7 | 1925.7 | 1924.7 | 1926.7 |
| 7.5° | 1929.8 | 1928.8 | 1928.8 | 1926.7 | 1926.7 | 1924.7 | 1926.7 | 1923.6 | 1925.7 | 1923.6 | 1926.7 |
| 10° | 1924.7 | 1925.7 | 1924.7 | 1923.6 | 1923.6 | 1922.6 | 1922.6 | 1919.5 | 1920.5 | 1917.4 | 1919.5 |
| 12.5° | 1921.6 | 1920.5 | 1920.5 | 1918.5 | 1916.4 | 1914.4 | 1913.3 | 1910.2 | 1910.2 | 1903.0 | 1906.1 |
| 15° | 1913.3 | 1914.4 | 1911.3 | 1907.1 | 1905.1 | 1899.9 | 1897.9 | 1893.7 | 1889.6 | 1884.5 | 1885.5 |
| 17.5° | 1906.1 | 1903.0 | 1898.9 | 1894.8 | 1886.5 | 1882.4 | 1878.3 | 1872.1 | 1870.0 | 1863.8 | 1861.8 |
| 20° | 1884.5 | 1882.4 | 1877.3 | 1870.0 | 1864.9 | 1855.6 | 1851.5 | 1845.3 | 1840.1 | 1833.9 | 1830.8 |
| 22.5° | 1856.6 | 1854.5 | 1848.4 | 1841.2 | 1832.9 | 1828.8 | 1824.7 | 1813.3 | 1808.2 | 1802.0 | 1800.9 |
| 25° | 1821.6 | 1818.5 | 1812.3 | 1804.1 | 1799.9 | 1788.6 | 1784.5 | 1776.2 | 1774.2 | 1768.0 | 1766.9 |
| 27.5° | 1768.0 | 1763.8 | 1756.6 | 1746.3 | 1739.1 | 1731.9 | 1727.8 | 1721.6 | 1719.5 | 1713.3 | 1712.3 |
| 30° | 1687.6 | 1682.4 | 1668.0 | 1663.9 | 1651.5 | 1644.3 | 1644.3 | 1636.0 | 1637.0 | 1632.9 | 1632.9 |
| 32.5° | 1560.8 | 1552.5 | 1541.2 | 1532.9 | 1524.7 | 1520.6 | 1520.6 | 1517.5 | 1519.5 | 1519.5 | 1521.6 |
| 35° | 1392.7 | 1381.4 | 1375.2 | 1370.0 | 1370.0 | 1374.2 | 1386.5 | 1389.6 | 1395.8 | 1401.0 | 1405.1 |
| 37.5° | 1177.3 | 1176.2 | 1183.5 | 1189.6 | 1205.1 | 1222.6 | 1244.3 | 1262.8 | 1280.3 | 1292.7 | 1305.1 |
| 40° | 944.3 | 970.1 | 990.7 | 1019.6 | 1043.2 | 1077.3 | 1116.4 | 1148.4 | 1178.3 | 1200.0 | 1222.6 |
| 42.5° | 737.1 | 770.1 | 813.4 | 855.6 | 897.9 | 944.3 | 995.8 | 1040.2 | 1079.3 | 1109.2 | 1132.9 |
| 45° | 574.2 | 619.6 | 672.1 | 725.7 | 780.4 | 838.1 | 891.7 | 937.1 | 978.3 | 1009.2 | 1033.0 |
| 47.5° | 462.9 | 512.4 | 572.1 | 630.9 | 692.8 | 753.6 | 813.4 | 852.5 | 886.6 | 911.3 | 933.0 |
| 50° | 382.4 | 435.0 | 497.9 | 564.9 | 626.8 | 687.6 | 739.1 | 777.3 | 805.1 | 826.8 | 840.2 |
| 52.5° | 319.6 | 375.2 | 442.3 | 509.2 | 571.1 | 626.8 | 673.2 | 702.0 | 724.7 | 740.2 | 752.5 |
| 55° | 263.9 | 317.5 | 380.4 | 443.3 | 504.1 | 556.7 | 594.8 | 616.5 | 634.0 | 643.3 | 650.5 |
| 57.5° | 215.5 | 264.9 | 322.7 | 380.4 | 433.0 | 476.3 | 506.2 | 527.8 | 536.1 | 543.3 | 542.2 |
| 60° | 169.1 | 215.5 | 268.0 | 317.5 | 362.9 | 397.9 | 419.6 | 431.9 | 438.1 | 441.2 | 439.2 |
| 62.5° | 133.0 | 175.3 | 215.5 | 258.7 | 291.7 | 321.6 | 342.3 | 342.3 | 345.3 | 346.4 | 349.5 |
| 65° | 99.0 | 130.9 | 166.0 | 197.9 | 224.7 | 244.3 | 255.7 | 258.7 | 262.9 | 261.9 | 259.8 |
| 67.5° | 73.2 | 96.9 | 122.7 | 146.4 | 164.9 | 177.3 | 185.5 | 192.8 | 191.8 | 189.7 | 188.7 |
| 70° | 50.5 | 66.0 | 88.7 | 103.1 | 116.5 | 128.9 | 130.9 | 131.9 | 133.0 | 134.0 | 131.9 |
| 72.5° | 35.1 | 46.4 | 58.8 | 71.1 | 79.4 | 84.5 | 89.7 | 90.7 | 90.7 | 90.7 | 89.7 |
| 75° | 17.5 | 23.7 | 35.1 | 40.2 | 47.4 | 49.5 | 53.6 | 53.6 | 56.7 | 52.6 | 51.5 |
| 77.5° | 15.5 | 18.6 | 24.7 | 28.9 | 32.0 | 35.1 | 36.1 | 39.2 | 38.1 | 36.1 | 37.1 |
| 80° | 9.3 | 11.4 | 15.5 | 17.5 | 21.6 | 22.7 | 23.7 | 24.7 | 23.7 | 24.7 | 24.7 |
| 82.5° | 7.2 | 8.2 | 10.3 | 10.3 | 13.4 | 13.4 | 14.4 | 14.4 | 15.5 | 15.5 | 15.5 |
| 85° | 4.1 | 7.2 | 6.2 | 12.4 | 8.2 | 8.2 | 10.3 | 12.4 | 10.3 | 10.3 | 12.4 |
| 87.5° | 4.1 | 4.1 | 3.1 | 4.1 | 4.1 | 4.1 | 5.1 | 6.2 | 6.2 | 7.2 | 6.2 |
| 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: P246160

CATALOG NUMBER: LSR8B40D010 EC8B40950 8LBDW0B

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 1920.5 | 1920.5 | 1920.5 | 1920.5 |
| 2.5° | 1923.6 | 1925.7 | 1922.6 | 1921.6 |
| 5° | 1926.7 | 1926.7 | 1924.7 | 1924.7 |
| 7.5° | 1926.7 | 1926.7 | 1923.6 | 1921.6 |
| 10° | 1918.5 | 1918.5 | 1915.4 | 1913.3 |
| 12.5° | 1903.0 | 1903.0 | 1902.0 | 1898.9 |
| 15° | 1883.4 | 1883.4 | 1879.3 | 1876.2 |
| 17.5° | 1856.6 | 1858.7 | 1853.5 | 1853.5 |
| 20° | 1827.8 | 1826.7 | 1822.6 | 1820.5 |
| 22.5° | 1797.9 | 1795.8 | 1794.8 | 1788.6 |
| 25° | 1765.9 | 1763.8 | 1760.7 | 1757.7 |
| 27.5° | 1711.3 | 1710.2 | 1707.1 | 1703.0 |
| 30° | 1627.8 | 1626.7 | 1622.6 | 1622.6 |
| 32.5° | 1519.5 | 1518.5 | 1514.4 | 1515.4 |
| 35° | 1407.2 | 1411.3 | 1409.2 | 1405.1 |
| 37.5° | 1313.3 | 1316.4 | 1318.5 | 1316.4 |
| 40° | 1235.0 | 1244.3 | 1245.3 | 1247.4 |
| 42.5° | 1151.5 | 1163.9 | 1168.0 | 1170.0 |
| 45° | 1051.5 | 1062.8 | 1072.1 | 1070.1 |
| 47.5° | 949.4 | 957.7 | 965.9 | 959.8 |
| 50° | 851.5 | 856.7 | 859.8 | 859.8 |
| 52.5° | 758.7 | 758.7 | 757.7 | 758.7 |
| 55° | 652.5 | 652.5 | 648.4 | 650.5 |
| 57.5° | 541.2 | 543.3 | 540.2 | 535.0 |
| 60° | 438.1 | 433.0 | 430.9 | 427.8 |
| 62.5° | 341.2 | 341.2 | 334.0 | 343.3 |
| 65° | 255.7 | 252.6 | 249.5 | 248.4 |
| 67.5° | 185.5 | 184.5 | 181.4 | 180.4 |
| 70° | 130.9 | 126.8 | 125.8 | 123.7 |
| 72.5° | 87.6 | 87.6 | 85.6 | 85.6 |
| 75° | 53.6 | 48.5 | 47.4 | 48.5 |
| 77.5° | 37.1 | 36.1 | 36.1 | 35.1 |
| 80° | 24.7 | 23.7 | 25.8 | 22.7 |
| 82.5° | 15.5 | 16.5 | 15.5 | 16.5 |
| 85° | 10.3 | 12.4 | 11.4 | 11.4 |
| 87.5° | 6.2 | 6.2 | 6.2 | 6.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)