

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: P245524

Luminaire Tested: **LSR8B40D010 EC8B40930 8LBDW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245524  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B40D010 EC8B40930 8LBDW0WH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3712.7 lumens  
Efficiency: N/A  
Efficacy: 90.8 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

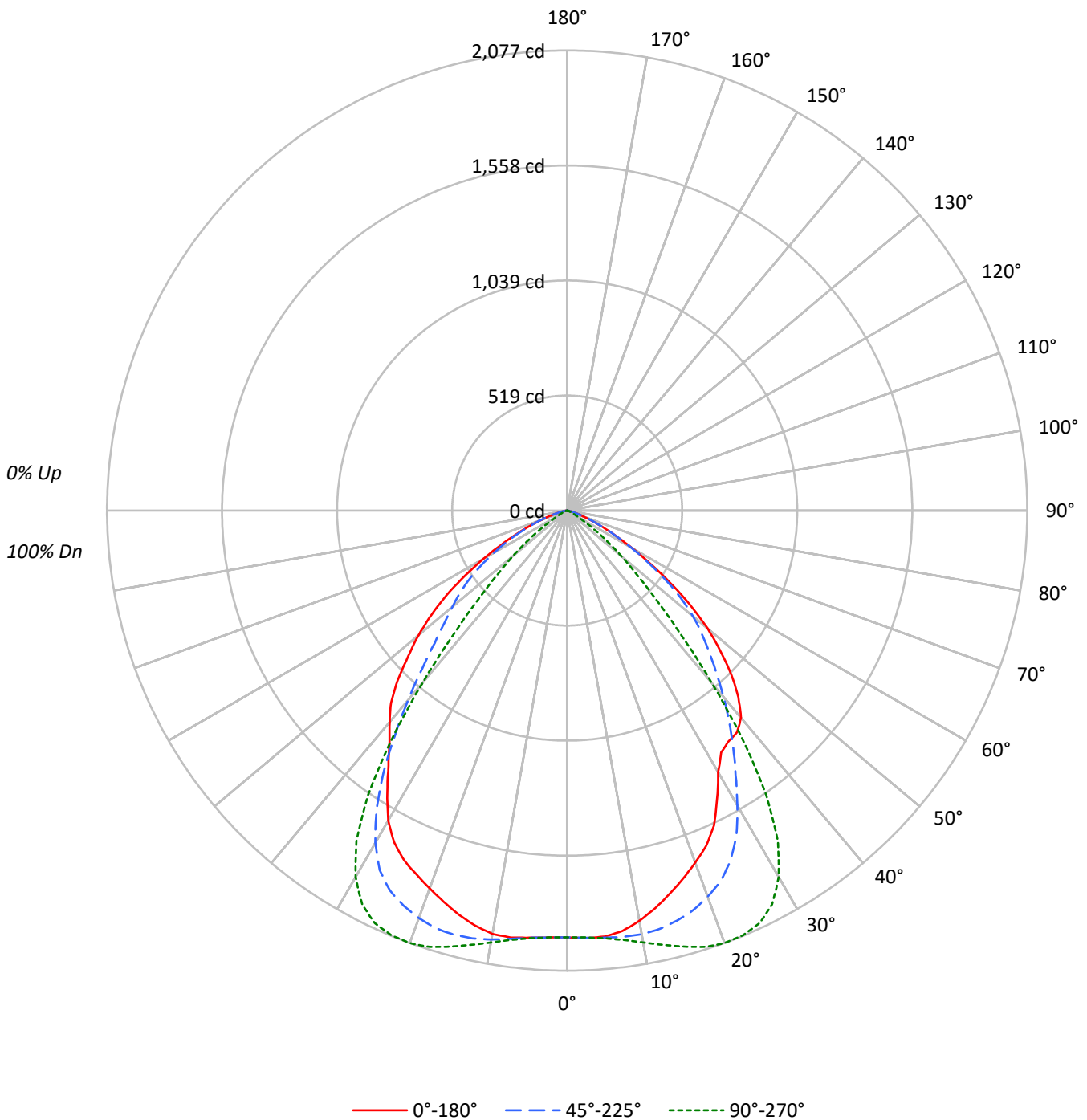
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 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  | 92  | 90  |
| 2   | 104 | 98  | 92  | 88  | 102 | 96  | 91  | 87  | 92  | 88  | 85  | 89  | 86  | 83  | 86  | 84  | 81  | 79  |
| 3   | 97  | 88  | 82  | 76  | 94  | 87  | 81  | 76  | 84  | 79  | 74  | 81  | 77  | 73  | 79  | 75  | 72  | 70  |
| 4   | 90  | 80  | 73  | 67  | 88  | 79  | 72  | 67  | 76  | 70  | 66  | 74  | 69  | 65  | 72  | 68  | 64  | 62  |
| 5   | 84  | 73  | 65  | 60  | 82  | 72  | 65  | 59  | 70  | 63  | 59  | 68  | 62  | 58  | 66  | 61  | 58  | 56  |
| 6   | 78  | 66  | 59  | 53  | 76  | 66  | 58  | 53  | 64  | 57  | 53  | 62  | 57  | 52  | 61  | 56  | 52  | 50  |
| 7   | 73  | 61  | 53  | 48  | 71  | 60  | 53  | 48  | 59  | 52  | 48  | 57  | 52  | 47  | 56  | 51  | 47  | 45  |
| 8   | 68  | 56  | 49  | 44  | 67  | 56  | 48  | 43  | 54  | 48  | 43  | 53  | 47  | 43  | 52  | 47  | 43  | 41  |
| 9   | 64  | 52  | 45  | 40  | 63  | 51  | 44  | 40  | 50  | 44  | 39  | 49  | 44  | 39  | 48  | 43  | 39  | 38  |
| 10  | 60  | 48  | 41  | 36  | 59  | 48  | 41  | 36  | 47  | 41  | 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°    | 185.2  | 5.0       |
| 10°-20°   | 548.7  | 14.8      |
| 20°-30°   | 837.1  | 22.5      |
| 30°-40°   | 873.5  | 23.5      |
| 40°-50°   | 656.1  | 17.7      |
| 50°-60°   | 403.7  | 10.9      |
| 60°-70°   | 164.3  | 4.4       |
| 70°-80°   | 38.7   | 1.0       |
| 80°-90°   | 5.3    | 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°    | 1571.0 | 42.3      |
| 0°-40°    | 2444.6 | 65.8      |
| 0°-60°    | 3504.4 | 94.4      |
| 0°-90°    | 3712.7 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3712.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1926 | 1926 | 1926 | 1926 | 1926 |      |
| 5°  | 1930 | 1935 | 1937 | 1935 | 1935 | 183  |
| 15° | 1790 | 1916 | 2038 | 1981 | 1888 | 504  |
| 25° | 1568 | 1744 | 2055 | 1892 | 1742 | 713  |
| 35° | 1271 | 1306 | 1565 | 1446 | 1406 | 802  |
| 45° | 1049 | 908  | 566  | 846  | 1082 | 800  |
| 55° | 566  | 538  | 148  | 538  | 664  | 509  |
| 65° | 177  | 179  | 22   | 240  | 255  | 184  |
| 75° | 31   | 31   | 4    | 54   | 56   | 37   |
| 85° | 3    | 3    | 1    | 7    | 9    | 4    |
| 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°    | 1926.0 | 1926.0 | 1926.0 | 1926.0 | 1926.0 | 1926.0 | 1926.0 | 1926.0 | 1926.0 | 1926.0 | 1926.0 |
| 2.5°  | 1931.1 | 1928.1 | 1931.1 | 1931.1 | 1932.2 | 1930.1 | 1931.1 | 1932.2 | 1930.1 | 1930.1 | 1930.1 |
| 5°    | 1930.1 | 1928.1 | 1930.1 | 1929.1 | 1931.1 | 1931.1 | 1933.3 | 1933.3 | 1935.3 | 1935.3 | 1938.3 |
| 7.5°  | 1913.8 | 1909.7 | 1913.8 | 1916.9 | 1918.9 | 1923.0 | 1928.1 | 1932.2 | 1936.3 | 1940.3 | 1945.5 |
| 10°   | 1880.0 | 1880.0 | 1883.2 | 1889.2 | 1895.4 | 1902.6 | 1911.8 | 1922.0 | 1932.2 | 1941.3 | 1950.5 |
| 12.5° | 1838.1 | 1835.1 | 1841.2 | 1849.4 | 1858.6 | 1869.8 | 1884.2 | 1899.5 | 1915.8 | 1934.2 | 1948.5 |
| 15°   | 1790.1 | 1787.0 | 1794.2 | 1802.3 | 1813.6 | 1829.9 | 1847.3 | 1867.8 | 1891.4 | 1915.8 | 1939.3 |
| 17.5° | 1741.0 | 1740.0 | 1747.2 | 1758.4 | 1767.6 | 1785.0 | 1807.5 | 1831.9 | 1858.6 | 1891.4 | 1922.0 |
| 20°   | 1690.9 | 1689.9 | 1697.1 | 1706.3 | 1718.5 | 1734.9 | 1757.4 | 1786.0 | 1817.7 | 1854.5 | 1890.2 |
| 22.5° | 1638.8 | 1639.8 | 1646.0 | 1656.2 | 1666.4 | 1683.7 | 1707.3 | 1735.9 | 1770.6 | 1810.5 | 1850.4 |
| 25°   | 1568.3 | 1563.1 | 1571.3 | 1581.5 | 1598.9 | 1613.2 | 1635.8 | 1666.4 | 1702.1 | 1744.1 | 1791.1 |
| 27.5° | 1466.0 | 1464.9 | 1472.2 | 1481.3 | 1496.6 | 1514.0 | 1538.6 | 1570.3 | 1608.1 | 1654.1 | 1700.1 |
| 30°   | 1363.8 | 1365.8 | 1368.9 | 1378.0 | 1388.4 | 1405.7 | 1430.3 | 1456.9 | 1492.6 | 1536.6 | 1585.7 |
| 32.5° | 1294.3 | 1294.3 | 1298.3 | 1304.5 | 1311.7 | 1320.9 | 1338.2 | 1357.6 | 1385.2 | 1415.9 | 1451.7 |
| 35°   | 1270.8 | 1266.6 | 1270.8 | 1271.8 | 1272.8 | 1274.8 | 1277.9 | 1284.0 | 1293.2 | 1306.5 | 1319.9 |
| 37.5° | 1260.6 | 1257.4 | 1257.4 | 1253.4 | 1248.2 | 1242.1 | 1234.0 | 1224.7 | 1214.5 | 1201.3 | 1191.1 |
| 40°   | 1220.7 | 1218.6 | 1216.5 | 1212.5 | 1201.3 | 1188.9 | 1175.7 | 1154.2 | 1130.6 | 1098.0 | 1065.3 |
| 42.5° | 1144.0 | 1142.0 | 1141.0 | 1132.8 | 1122.5 | 1108.2 | 1092.9 | 1070.3 | 1040.7 | 998.8  | 951.7  |
| 45°   | 1048.9 | 1044.8 | 1041.7 | 1034.6 | 1027.4 | 1015.2 | 1000.8 | 980.4  | 950.7  | 907.8  | 851.6  |
| 47.5° | 938.5  | 936.5  | 935.5  | 932.3  | 925.2  | 918.0  | 908.9  | 892.5  | 865.9  | 825.1  | 766.8  |
| 50°   | 827.1  | 822.9  | 825.1  | 824.0  | 820.9  | 815.9  | 809.7  | 798.5  | 778.0  | 741.2  | 688.1  |
| 52.5° | 699.3  | 699.3  | 698.3  | 701.3  | 702.3  | 701.3  | 702.3  | 690.1  | 672.7  | 645.0  | 600.1  |
| 55°   | 566.3  | 566.3  | 569.5  | 573.5  | 577.7  | 578.7  | 577.7  | 572.5  | 560.3  | 537.7  | 497.8  |
| 57.5° | 441.7  | 439.7  | 445.7  | 451.9  | 455.9  | 460.1  | 456.9  | 452.9  | 445.7  | 427.3  | 396.6  |
| 60°   | 336.3  | 336.3  | 340.4  | 344.5  | 348.6  | 352.7  | 351.7  | 350.6  | 344.5  | 332.3  | 307.7  |
| 62.5° | 247.4  | 248.4  | 248.4  | 251.4  | 255.6  | 259.6  | 262.8  | 259.6  | 256.6  | 248.4  | 232.0  |
| 65°   | 176.9  | 175.8  | 176.9  | 179.9  | 183.1  | 187.1  | 189.1  | 188.1  | 185.1  | 178.9  | 166.7  |
| 67.5° | 118.6  | 117.6  | 121.6  | 122.6  | 124.8  | 128.8  | 127.8  | 128.8  | 127.8  | 122.6  | 112.4  |
| 70°   | 77.7   | 75.7   | 77.7   | 76.7   | 79.7   | 80.8   | 82.8   | 83.9   | 82.8   | 79.7   | 76.7   |
| 72.5° | 48.1   | 47.1   | 48.1   | 49.1   | 50.1   | 51.1   | 53.1   | 53.1   | 52.1   | 50.1   | 46.0   |
| 75°   | 30.7   | 27.6   | 28.6   | 26.6   | 28.6   | 28.6   | 30.7   | 31.7   | 30.7   | 30.7   | 28.6   |
| 77.5° | 18.4   | 18.4   | 18.4   | 18.4   | 18.4   | 18.4   | 18.4   | 19.4   | 20.4   | 18.4   | 17.4   |
| 80°   | 9.2    | 9.2    | 10.2   | 10.2   | 10.2   | 11.2   | 10.2   | 10.2   | 10.2   | 11.2   | 8.2    |
| 82.5° | 7.2    | 6.2    | 6.2    | 6.2    | 7.2    | 6.2    | 6.2    | 6.2    | 6.2    | 6.2    | 6.2    |
| 85°   | 3.0    | 4.0    | 3.0    | 2.0    | 3.0    | 3.0    | 4.0    | 3.0    | 3.0    | 3.0    | 4.0    |
| 87.5° | 1.0    | 1.0    | 0.0    | 0.0    | 0.0    | 1.0    | 0.0    | 1.0    | 1.0    | 2.0    | 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    |



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**CANDELA DISTRIBUTION (continued):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   | 105°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1926.0 | 1926.0 | 1926.0 | 1926.0 | 1926.0 | 1926.0 | 1926.0 | 1926.0 | 1926.0 | 1926.0 | 1926.0 |
| 2.5°  | 1931.1 | 1929.1 | 1929.1 | 1928.1 | 1930.1 | 1928.1 | 1929.1 | 1928.1 | 1928.1 | 1930.1 | 1928.1 |
| 5°    | 1938.3 | 1939.3 | 1937.3 | 1936.3 | 1939.3 | 1939.3 | 1939.3 | 1937.3 | 1937.3 | 1938.3 | 1937.3 |
| 7.5°  | 1948.5 | 1950.5 | 1951.7 | 1952.7 | 1954.7 | 1955.7 | 1955.7 | 1954.7 | 1953.7 | 1956.7 | 1952.7 |
| 10°   | 1959.8 | 1962.9 | 1969.0 | 1972.1 | 1977.2 | 1977.2 | 1979.2 | 1979.2 | 1977.2 | 1979.2 | 1978.2 |
| 12.5° | 1955.7 | 1974.1 | 1984.3 | 1991.5 | 1998.6 | 2004.8 | 2006.8 | 2007.8 | 2006.8 | 2011.0 | 2006.8 |
| 15°   | 1962.9 | 1978.2 | 1994.6 | 2006.8 | 2020.2 | 2027.2 | 2029.3 | 2037.5 | 2039.5 | 2040.6 | 2034.4 |
| 17.5° | 1951.7 | 1979.2 | 1996.6 | 2015.0 | 2034.4 | 2047.7 | 2059.9 | 2065.1 | 2066.1 | 2068.1 | 2059.9 |
| 20°   | 1926.0 | 1956.7 | 1983.3 | 2009.8 | 2032.4 | 2052.8 | 2063.1 | 2077.3 | 2073.3 | 2081.5 | 2070.2 |
| 22.5° | 1891.4 | 1926.0 | 1959.8 | 1994.6 | 2018.0 | 2042.6 | 2064.1 | 2074.3 | 2079.5 | 2079.5 | 2067.1 |
| 25°   | 1836.1 | 1877.0 | 1913.8 | 1949.5 | 1985.4 | 2015.0 | 2039.5 | 2054.9 | 2057.9 | 2056.9 | 2042.6 |
| 27.5° | 1750.2 | 1794.2 | 1837.1 | 1878.0 | 1922.0 | 1956.7 | 1985.4 | 2003.8 | 2008.8 | 2008.8 | 1993.6 |
| 30°   | 1631.6 | 1678.7 | 1720.6 | 1769.6 | 1814.7 | 1853.5 | 1893.4 | 1909.7 | 1918.9 | 1918.9 | 1901.6 |
| 32.5° | 1490.6 | 1530.4 | 1569.3 | 1617.3 | 1666.4 | 1710.3 | 1748.2 | 1770.6 | 1781.9 | 1780.9 | 1765.6 |
| 35°   | 1337.2 | 1356.6 | 1386.2 | 1422.1 | 1466.0 | 1506.8 | 1543.7 | 1565.1 | 1584.6 | 1583.5 | 1569.3 |
| 37.5° | 1183.9 | 1178.7 | 1181.8 | 1195.1 | 1222.7 | 1251.4 | 1280.0 | 1300.4 | 1316.7 | 1323.9 | 1320.9 |
| 40°   | 1033.6 | 1007.0 | 981.4  | 972.2  | 974.3  | 984.5  | 999.8  | 1015.2 | 1033.6 | 1042.8 | 1046.9 |
| 42.5° | 898.6  | 853.6  | 808.7  | 774.9  | 755.4  | 749.4  | 756.6  | 761.6  | 772.9  | 786.2  | 799.5  |
| 45°   | 790.3  | 730.0  | 670.7  | 618.5  | 585.8  | 566.3  | 562.3  | 566.3  | 572.5  | 585.8  | 603.2  |
| 47.5° | 701.3  | 630.8  | 564.3  | 506.0  | 458.0  | 432.5  | 425.3  | 423.3  | 429.3  | 441.7  | 465.1  |
| 50°   | 622.6  | 552.1  | 478.4  | 411.0  | 360.8  | 332.3  | 322.1  | 317.9  | 325.1  | 334.3  | 355.8  |
| 52.5° | 536.7  | 467.2  | 391.6  | 326.1  | 274.0  | 244.4  | 233.1  | 227.0  | 231.0  | 243.4  | 264.8  |
| 55°   | 443.7  | 379.2  | 310.7  | 243.4  | 193.3  | 165.6  | 152.3  | 148.2  | 152.3  | 165.6  | 187.1  |
| 57.5° | 350.6  | 296.5  | 239.2  | 175.8  | 130.8  | 103.2  | 89.9   | 85.9   | 97.1   | 102.2  | 124.8  |
| 60°   | 274.0  | 230.0  | 180.9  | 128.8  | 89.9   | 68.5   | 55.2   | 52.1   | 57.3   | 66.5   | 84.9   |
| 62.5° | 205.5  | 177.9  | 139.0  | 92.0   | 66.5   | 43.9   | 36.8   | 33.7   | 36.8   | 43.9   | 58.3   |
| 65°   | 149.3  | 127.8  | 97.1   | 67.5   | 45.0   | 32.7   | 24.5   | 22.5   | 25.6   | 30.7   | 42.9   |
| 67.5° | 102.2  | 85.9   | 67.5   | 47.1   | 30.7   | 20.4   | 17.4   | 17.4   | 18.4   | 22.5   | 31.7   |
| 70°   | 66.5   | 56.3   | 42.9   | 30.7   | 20.4   | 15.4   | 13.2   | 11.2   | 13.2   | 16.4   | 21.4   |
| 72.5° | 41.9   | 35.8   | 27.6   | 21.4   | 15.4   | 11.2   | 9.2    | 8.2    | 10.2   | 12.2   | 16.4   |
| 75°   | 25.6   | 19.4   | 14.3   | 11.2   | 8.2    | 8.2    | 8.2    | 4.0    | 5.2    | 8.2    | 10.2   |
| 77.5° | 15.4   | 13.2   | 11.2   | 9.2    | 7.2    | 4.0    | 4.0    | 4.0    | 5.2    | 6.2    | 9.2    |
| 80°   | 8.2    | 7.2    | 5.2    | 5.2    | 4.0    | 3.0    | 4.0    | 3.0    | 2.0    | 5.2    | 6.2    |
| 82.5° | 5.2    | 4.0    | 4.0    | 4.0    | 5.2    | 2.0    | 3.0    | 2.0    | 3.0    | 4.0    | 3.0    |
| 85°   | 3.0    | 3.0    | 3.0    | 2.0    | 5.2    | 2.0    | 2.0    | 1.0    | 1.0    | 2.0    | 2.0    |
| 87.5° | 0.0    | 1.0    | 1.0    | 0.0    | 1.0    | 0.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    |
| 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°    | 1926.0 | 1926.0 | 1926.0 | 1926.0 | 1926.0 | 1926.0 | 1926.0 | 1926.0 | 1926.0 | 1926.0 | 1926.0 |
| 2.5°  | 1929.1 | 1928.1 | 1929.1 | 1928.1 | 1928.1 | 1928.1 | 1929.1 | 1929.1 | 1928.1 | 1928.1 | 1930.1 |
| 5°    | 1937.3 | 1937.3 | 1937.3 | 1936.3 | 1935.3 | 1935.3 | 1937.3 | 1937.3 | 1934.2 | 1937.3 | 1937.3 |
| 7.5°  | 1954.7 | 1951.7 | 1954.7 | 1950.5 | 1948.5 | 1949.5 | 1950.5 | 1948.5 | 1946.5 | 1947.5 | 1947.5 |
| 10°   | 1977.2 | 1974.1 | 1974.1 | 1971.1 | 1967.9 | 1965.9 | 1963.9 | 1958.7 | 1953.7 | 1952.7 | 1948.5 |
| 12.5° | 2003.8 | 1998.6 | 1995.6 | 1989.4 | 1984.3 | 1977.2 | 1971.1 | 1962.9 | 1952.7 | 1945.5 | 1938.3 |
| 15°   | 2030.4 | 2022.2 | 2015.0 | 2004.8 | 1993.6 | 1981.3 | 1967.9 | 1954.7 | 1938.3 | 1924.0 | 1911.8 |
| 17.5° | 2051.8 | 2040.6 | 2027.2 | 2011.0 | 1994.6 | 1976.1 | 1956.7 | 1937.3 | 1913.8 | 1895.4 | 1881.0 |
| 20°   | 2058.9 | 2042.6 | 2025.2 | 2003.8 | 1982.3 | 1956.7 | 1932.2 | 1906.6 | 1880.0 | 1860.6 | 1844.3 |
| 22.5° | 2049.7 | 2030.4 | 2008.8 | 1986.4 | 1957.7 | 1930.1 | 1901.6 | 1871.8 | 1848.3 | 1821.7 | 1806.5 |
| 25°   | 2024.2 | 2000.6 | 1977.2 | 1950.5 | 1923.0 | 1892.4 | 1861.6 | 1831.0 | 1802.3 | 1788.0 | 1768.6 |
| 27.5° | 1972.1 | 1946.5 | 1920.9 | 1893.4 | 1861.6 | 1831.0 | 1799.3 | 1769.6 | 1745.1 | 1725.7 | 1714.5 |
| 30°   | 1880.0 | 1850.4 | 1820.7 | 1791.1 | 1763.4 | 1731.8 | 1702.1 | 1677.6 | 1653.1 | 1637.8 | 1626.6 |
| 32.5° | 1739.0 | 1712.4 | 1682.7 | 1654.1 | 1628.6 | 1602.0 | 1577.5 | 1555.9 | 1538.6 | 1528.4 | 1520.2 |
| 35°   | 1548.8 | 1522.2 | 1499.8 | 1479.3 | 1457.9 | 1446.5 | 1431.3 | 1419.0 | 1411.8 | 1407.8 | 1406.7 |
| 37.5° | 1309.6 | 1294.3 | 1287.1 | 1283.0 | 1278.9 | 1275.9 | 1277.9 | 1283.0 | 1287.1 | 1294.3 | 1302.4 |
| 40°   | 1054.0 | 1067.3 | 1071.5 | 1085.7 | 1099.0 | 1116.4 | 1135.8 | 1158.3 | 1176.7 | 1200.1 | 1216.5 |
| 42.5° | 820.9  | 845.5  | 874.0  | 904.8  | 937.5  | 969.2  | 1008.0 | 1043.8 | 1076.5 | 1106.1 | 1131.8 |
| 45°   | 630.8  | 668.6  | 711.5  | 755.4  | 799.5  | 845.5  | 892.5  | 936.5  | 975.3  | 1007.0 | 1033.6 |
| 47.5° | 491.8  | 533.7  | 588.9  | 643.0  | 696.3  | 750.4  | 802.5  | 848.5  | 881.2  | 911.9  | 935.5  |
| 50°   | 389.5  | 437.5  | 497.8  | 560.3  | 618.5  | 675.7  | 731.0  | 773.9  | 806.7  | 831.1  | 848.5  |
| 52.5° | 301.5  | 358.8  | 420.2  | 485.6  | 547.9  | 610.4  | 661.4  | 701.3  | 727.9  | 749.4  | 762.6  |
| 55°   | 224.9  | 281.1  | 346.6  | 414.0  | 477.4  | 537.7  | 585.8  | 620.6  | 644.1  | 656.3  | 663.5  |
| 57.5° | 162.5  | 213.7  | 279.1  | 346.6  | 403.8  | 461.1  | 500.0  | 531.6  | 544.9  | 552.1  | 555.1  |
| 60°   | 118.6  | 165.6  | 223.9  | 282.2  | 336.3  | 382.4  | 416.1  | 437.5  | 447.8  | 451.9  | 450.9  |
| 62.5° | 86.9   | 127.8  | 177.9  | 227.0  | 270.9  | 308.7  | 335.3  | 349.6  | 354.8  | 356.8  | 353.7  |
| 65°   | 66.5   | 98.1   | 141.1  | 178.9  | 212.7  | 240.2  | 259.6  | 268.9  | 272.0  | 270.9  | 268.9  |
| 67.5° | 49.1   | 73.6   | 105.3  | 134.0  | 158.5  | 179.9  | 190.1  | 198.3  | 200.3  | 197.3  | 194.3  |
| 70°   | 34.8   | 54.1   | 76.7   | 96.1   | 114.5  | 126.8  | 138.0  | 139.0  | 139.0  | 138.0  | 136.0  |
| 72.5° | 24.5   | 37.8   | 52.1   | 65.5   | 76.7   | 85.9   | 89.9   | 93.0   | 92.0   | 91.0   | 88.9   |
| 75°   | 16.4   | 23.5   | 37.8   | 40.9   | 51.1   | 54.1   | 58.3   | 58.3   | 59.3   | 56.3   | 56.3   |
| 77.5° | 10.2   | 16.4   | 22.5   | 26.6   | 30.7   | 34.8   | 36.8   | 36.8   | 37.8   | 36.8   | 36.8   |
| 80°   | 6.2    | 10.2   | 12.2   | 18.4   | 18.4   | 21.4   | 22.5   | 23.5   | 21.4   | 24.5   | 21.4   |
| 82.5° | 4.0    | 6.2    | 9.2    | 9.2    | 11.2   | 13.2   | 13.2   | 14.3   | 14.3   | 13.2   | 13.2   |
| 85°   | 3.0    | 4.0    | 5.2    | 6.2    | 6.2    | 7.2    | 6.2    | 6.2    | 7.2    | 8.2    | 7.2    |
| 87.5° | 1.0    | 2.0    | 1.0    | 2.0    | 2.0    | 4.0    | 3.0    | 3.0    | 3.0    | 4.0    | 4.0    |
| 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: P245524

CATALOG NUMBER: LSR8B40D010 EC8B40930 8LBDW0WH

**CANDELA DISTRIBUTION (continued):**

|       | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|
| 0°    | 1926.0 | 1926.0 | 1926.0 | 1926.0 |
| 2.5°  | 1928.1 | 1929.1 | 1928.1 | 1928.1 |
| 5°    | 1937.3 | 1936.3 | 1937.3 | 1935.3 |
| 7.5°  | 1944.5 | 1944.5 | 1943.5 | 1943.5 |
| 10°   | 1944.5 | 1940.3 | 1940.3 | 1940.3 |
| 12.5° | 1929.1 | 1924.0 | 1920.9 | 1918.9 |
| 15°   | 1902.6 | 1893.4 | 1889.2 | 1888.2 |
| 17.5° | 1867.8 | 1859.6 | 1854.5 | 1851.4 |
| 20°   | 1827.9 | 1819.7 | 1813.6 | 1814.7 |
| 22.5° | 1793.2 | 1784.0 | 1779.8 | 1777.8 |
| 25°   | 1758.4 | 1747.2 | 1744.1 | 1742.0 |
| 27.5° | 1702.1 | 1696.1 | 1692.9 | 1689.9 |
| 30°   | 1616.3 | 1613.2 | 1608.1 | 1615.2 |
| 32.5° | 1517.2 | 1512.0 | 1508.0 | 1511.0 |
| 35°   | 1407.8 | 1404.6 | 1407.8 | 1405.7 |
| 37.5° | 1307.5 | 1310.6 | 1314.7 | 1316.7 |
| 40°   | 1228.8 | 1240.1 | 1244.2 | 1246.2 |
| 42.5° | 1150.1 | 1163.4 | 1171.6 | 1176.7 |
| 45°   | 1053.0 | 1066.3 | 1075.5 | 1081.7 |
| 47.5° | 952.8  | 964.1  | 973.3  | 972.2  |
| 50°   | 861.8  | 868.0  | 872.0  | 876.2  |
| 52.5° | 769.8  | 769.8  | 770.8  | 770.8  |
| 55°   | 665.5  | 663.5  | 662.5  | 663.5  |
| 57.5° | 551.0  | 549.0  | 547.9  | 544.9  |
| 60°   | 446.7  | 440.7  | 436.5  | 436.5  |
| 62.5° | 349.6  | 342.5  | 339.4  | 338.4  |
| 65°   | 262.8  | 261.8  | 255.6  | 254.6  |
| 67.5° | 190.1  | 186.1  | 181.9  | 183.1  |
| 70°   | 134.0  | 127.8  | 127.8  | 125.8  |
| 72.5° | 86.9   | 83.9   | 82.8   | 82.8   |
| 75°   | 54.1   | 54.1   | 52.1   | 56.3   |
| 77.5° | 35.8   | 35.8   | 34.8   | 35.8   |
| 80°   | 21.4   | 21.4   | 21.4   | 20.4   |
| 82.5° | 13.2   | 14.3   | 13.2   | 13.2   |
| 85°   | 7.2    | 8.2    | 6.2    | 9.2    |
| 87.5° | 4.0    | 5.2    | 4.0    | 5.2    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)