

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: P244228

Luminaire Tested: **LSR8B40D010 EC8B409730 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244228
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 EC8B409730 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE 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: 3406.0 lumens
Efficiency: N/A
Efficacy: 83.3 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

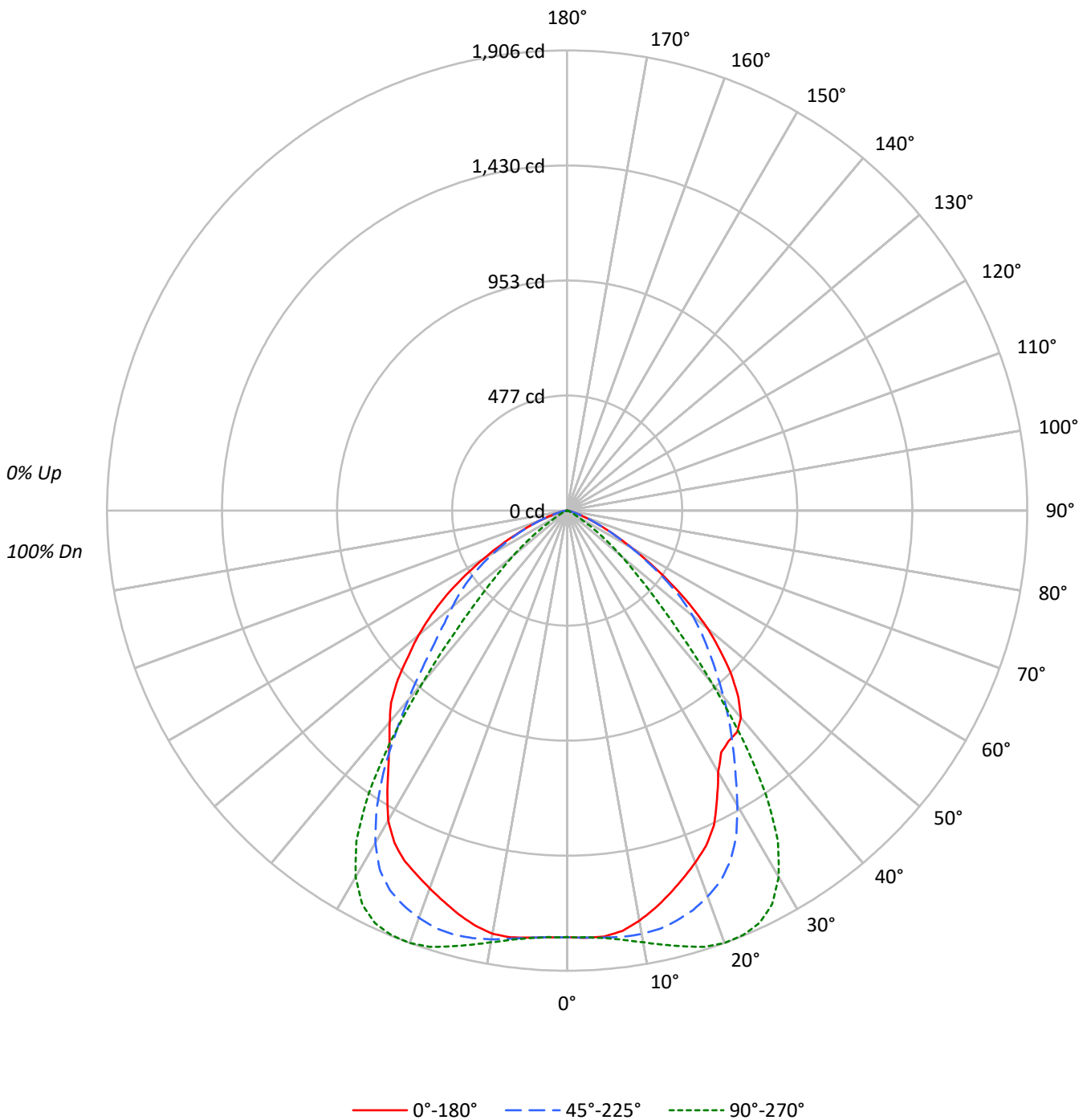
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P244228

CATALOG NUMBER: LSR8B40D010 EC8B409730 8LBDW0LI

Luminous Intensity Polar Plot





TEST NUMBER: P244228

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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° | | | |



TEST NUMBER: P244228

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 169.9 | 5.0 |
| 10°-20° | 503.4 | 14.8 |
| 20°-30° | 767.9 | 22.5 |
| 30°-40° | 801.4 | 23.5 |
| 40°-50° | 601.9 | 17.7 |
| 50°-60° | 370.3 | 10.9 |
| 60°-70° | 150.7 | 4.4 |
| 70°-80° | 35.5 | 1.0 |
| 80°-90° | 4.9 | 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° | 1441.2 | 42.3 |
| 0°-40° | 2242.6 | 65.8 |
| 0°-60° | 3214.9 | 94.4 |
| 0°-90° | 3406.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3406.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1767 | 1767 | 1767 | 1767 | 1767 | |
| 5° | 1771 | 1775 | 1777 | 1775 | 1775 | 168 |
| 15° | 1642 | 1758 | 1869 | 1818 | 1732 | 463 |
| 25° | 1439 | 1600 | 1885 | 1736 | 1598 | 654 |
| 35° | 1166 | 1199 | 1436 | 1327 | 1290 | 736 |
| 45° | 962 | 833 | 520 | 776 | 992 | 734 |
| 55° | 520 | 493 | 136 | 493 | 609 | 467 |
| 65° | 162 | 164 | 21 | 220 | 234 | 169 |
| 75° | 28 | 28 | 4 | 50 | 52 | 34 |
| 85° | 3 | 3 | 1 | 7 | 8 | 4 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P244228

CATALOG NUMBER: LSR8B40D010 EC8B409730 8LBDWOLI

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1766.9 | 1766.9 | 1766.9 | 1766.9 | 1766.9 | 1766.9 | 1766.9 | 1766.9 | 1766.9 | 1766.9 | 1766.9 |
| 2.5° | 1771.6 | 1768.8 | 1771.6 | 1771.6 | 1772.6 | 1770.7 | 1771.6 | 1772.6 | 1770.7 | 1770.7 | 1770.7 |
| 5° | 1770.7 | 1768.8 | 1770.7 | 1769.7 | 1771.6 | 1771.6 | 1773.5 | 1773.5 | 1775.4 | 1775.4 | 1778.2 |
| 7.5° | 1755.7 | 1751.9 | 1755.7 | 1758.5 | 1760.3 | 1764.1 | 1768.8 | 1772.6 | 1776.3 | 1780.1 | 1784.7 |
| 10° | 1724.7 | 1724.7 | 1727.5 | 1733.2 | 1738.8 | 1745.3 | 1753.8 | 1763.2 | 1772.6 | 1781.0 | 1789.4 |
| 12.5° | 1686.3 | 1683.5 | 1689.1 | 1696.6 | 1705.0 | 1715.3 | 1728.5 | 1742.5 | 1757.5 | 1774.4 | 1787.6 |
| 15° | 1642.2 | 1639.4 | 1645.9 | 1653.4 | 1663.8 | 1678.8 | 1694.7 | 1713.5 | 1735.0 | 1757.5 | 1779.1 |
| 17.5° | 1597.2 | 1596.2 | 1602.8 | 1613.1 | 1621.6 | 1637.5 | 1658.1 | 1680.6 | 1705.0 | 1735.0 | 1763.2 |
| 20° | 1551.2 | 1550.3 | 1556.8 | 1565.3 | 1576.5 | 1591.5 | 1612.2 | 1638.4 | 1667.5 | 1701.3 | 1734.1 |
| 22.5° | 1503.4 | 1504.3 | 1509.9 | 1519.3 | 1528.7 | 1544.6 | 1566.2 | 1592.5 | 1624.4 | 1660.9 | 1697.5 |
| 25° | 1438.7 | 1434.0 | 1441.5 | 1450.9 | 1466.8 | 1479.9 | 1500.6 | 1528.7 | 1561.5 | 1600.0 | 1643.1 |
| 27.5° | 1344.9 | 1343.9 | 1350.5 | 1358.9 | 1373.0 | 1389.0 | 1411.5 | 1440.5 | 1475.2 | 1517.4 | 1559.6 |
| 30° | 1251.1 | 1253.0 | 1255.8 | 1264.2 | 1273.6 | 1289.6 | 1312.1 | 1336.5 | 1369.3 | 1409.6 | 1454.6 |
| 32.5° | 1187.3 | 1187.3 | 1191.1 | 1196.7 | 1203.3 | 1211.7 | 1227.7 | 1245.5 | 1270.8 | 1298.9 | 1331.8 |
| 35° | 1165.7 | 1162.0 | 1165.7 | 1166.7 | 1167.6 | 1169.5 | 1172.3 | 1178.0 | 1186.4 | 1198.6 | 1210.8 |
| 37.5° | 1156.4 | 1153.6 | 1153.6 | 1149.8 | 1145.1 | 1139.5 | 1132.0 | 1123.5 | 1114.2 | 1102.0 | 1092.6 |
| 40° | 1119.8 | 1117.9 | 1116.0 | 1112.3 | 1102.0 | 1090.7 | 1078.5 | 1058.8 | 1037.3 | 1007.2 | 977.3 |
| 42.5° | 1049.5 | 1047.6 | 1046.6 | 1039.1 | 1029.8 | 1016.6 | 1002.6 | 981.9 | 954.7 | 916.3 | 873.1 |
| 45° | 962.2 | 958.5 | 955.7 | 949.1 | 942.5 | 931.3 | 918.2 | 899.4 | 872.2 | 832.8 | 781.2 |
| 47.5° | 861.0 | 859.1 | 858.1 | 855.3 | 848.8 | 842.2 | 833.8 | 818.8 | 794.4 | 756.8 | 703.4 |
| 50° | 758.7 | 755.0 | 756.8 | 755.9 | 753.1 | 748.4 | 742.8 | 732.5 | 713.7 | 679.9 | 631.2 |
| 52.5° | 641.5 | 641.5 | 640.6 | 643.4 | 644.3 | 643.4 | 644.3 | 633.1 | 617.1 | 591.8 | 550.5 |
| 55° | 519.6 | 519.6 | 522.4 | 526.1 | 529.9 | 530.8 | 529.9 | 525.2 | 513.9 | 493.3 | 456.7 |
| 57.5° | 405.1 | 403.3 | 408.9 | 414.5 | 418.3 | 422.0 | 419.2 | 415.5 | 408.9 | 392.0 | 363.9 |
| 60° | 308.6 | 308.6 | 312.3 | 316.1 | 319.8 | 323.6 | 322.6 | 321.7 | 316.1 | 304.8 | 282.3 |
| 62.5° | 227.0 | 227.9 | 227.9 | 230.7 | 234.5 | 238.2 | 241.0 | 238.2 | 235.4 | 227.9 | 212.9 |
| 65° | 162.2 | 161.3 | 162.2 | 165.1 | 167.9 | 171.6 | 173.5 | 172.6 | 169.7 | 164.1 | 152.9 |
| 67.5° | 108.8 | 107.9 | 111.6 | 112.5 | 114.4 | 118.2 | 117.2 | 118.2 | 117.2 | 112.5 | 103.2 |
| 70° | 71.3 | 69.4 | 71.3 | 70.3 | 73.2 | 74.1 | 76.0 | 76.9 | 76.0 | 73.2 | 70.3 |
| 72.5° | 44.1 | 43.1 | 44.1 | 45.0 | 46.0 | 46.9 | 48.8 | 48.8 | 47.8 | 46.0 | 42.2 |
| 75° | 28.1 | 25.3 | 26.3 | 24.4 | 26.3 | 26.3 | 28.1 | 29.1 | 28.1 | 28.1 | 26.3 |
| 77.5° | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 17.8 | 18.7 | 16.9 | 15.9 |
| 80° | 8.4 | 8.4 | 9.4 | 9.4 | 9.4 | 10.3 | 9.4 | 9.4 | 9.4 | 10.3 | 7.5 |
| 82.5° | 6.6 | 5.6 | 5.6 | 5.6 | 6.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 |
| 85° | 2.8 | 3.7 | 2.8 | 1.9 | 2.8 | 2.8 | 3.7 | 2.8 | 2.8 | 2.8 | 3.7 |
| 87.5° | 0.9 | 0.9 | 0.0 | 0.0 | 0.0 | 0.9 | 0.0 | 0.9 | 0.9 | 1.9 | 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: P244228

CATALOG NUMBER: LSR8B40D010 EC8B409730 8LBDWOLI

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1766.9 | 1766.9 | 1766.9 | 1766.9 | 1766.9 | 1766.9 | 1766.9 | 1766.9 | 1766.9 | 1766.9 | 1766.9 |
| 2.5° | 1771.6 | 1769.7 | 1769.7 | 1768.8 | 1770.7 | 1768.8 | 1769.7 | 1768.8 | 1768.8 | 1770.7 | 1768.8 |
| 5° | 1778.2 | 1779.1 | 1777.2 | 1776.3 | 1779.1 | 1779.1 | 1779.1 | 1777.2 | 1777.2 | 1778.2 | 1777.2 |
| 7.5° | 1787.6 | 1789.4 | 1790.4 | 1791.3 | 1793.2 | 1794.1 | 1794.1 | 1793.2 | 1792.2 | 1795.1 | 1791.3 |
| 10° | 1797.9 | 1800.7 | 1806.3 | 1809.1 | 1813.8 | 1813.8 | 1815.7 | 1815.7 | 1813.8 | 1815.7 | 1814.8 |
| 12.5° | 1794.1 | 1811.0 | 1820.4 | 1826.9 | 1833.5 | 1839.1 | 1841.0 | 1842.0 | 1841.0 | 1844.8 | 1841.0 |
| 15° | 1800.7 | 1814.8 | 1829.8 | 1841.0 | 1853.2 | 1859.8 | 1861.6 | 1869.1 | 1871.0 | 1872.0 | 1866.3 |
| 17.5° | 1790.4 | 1815.7 | 1831.6 | 1848.5 | 1866.3 | 1878.5 | 1889.8 | 1894.5 | 1895.4 | 1897.3 | 1889.8 |
| 20° | 1766.9 | 1795.1 | 1819.4 | 1843.8 | 1864.5 | 1883.2 | 1892.6 | 1905.7 | 1902.0 | 1909.5 | 1899.2 |
| 22.5° | 1735.0 | 1766.9 | 1797.9 | 1829.8 | 1851.3 | 1873.8 | 1893.5 | 1902.9 | 1907.6 | 1907.6 | 1896.3 |
| 25° | 1684.4 | 1721.9 | 1755.7 | 1788.5 | 1821.3 | 1848.5 | 1871.0 | 1885.1 | 1887.9 | 1887.0 | 1873.8 |
| 27.5° | 1605.6 | 1645.9 | 1685.3 | 1722.9 | 1763.2 | 1795.1 | 1821.3 | 1838.2 | 1842.9 | 1842.9 | 1828.8 |
| 30° | 1496.8 | 1540.0 | 1578.4 | 1623.4 | 1664.7 | 1700.3 | 1736.9 | 1751.9 | 1760.3 | 1760.3 | 1744.4 |
| 32.5° | 1367.4 | 1404.0 | 1439.6 | 1483.7 | 1528.7 | 1569.0 | 1603.7 | 1624.4 | 1634.7 | 1633.7 | 1619.7 |
| 35° | 1226.7 | 1244.5 | 1271.7 | 1304.6 | 1344.9 | 1382.4 | 1416.2 | 1435.9 | 1453.7 | 1452.7 | 1439.6 |
| 37.5° | 1086.0 | 1081.3 | 1084.2 | 1096.4 | 1121.7 | 1147.9 | 1174.2 | 1193.0 | 1208.0 | 1214.5 | 1211.7 |
| 40° | 948.2 | 923.8 | 900.3 | 891.9 | 893.8 | 903.2 | 917.2 | 931.3 | 948.2 | 956.6 | 960.4 |
| 42.5° | 824.4 | 783.1 | 741.8 | 710.9 | 693.1 | 687.4 | 694.0 | 698.7 | 709.0 | 721.2 | 733.4 |
| 45° | 725.0 | 669.6 | 615.2 | 567.4 | 537.4 | 519.6 | 515.8 | 519.6 | 525.2 | 537.4 | 553.3 |
| 47.5° | 643.4 | 578.7 | 517.7 | 464.2 | 420.2 | 396.7 | 390.2 | 388.3 | 393.9 | 405.1 | 426.7 |
| 50° | 571.1 | 506.4 | 438.9 | 377.0 | 331.1 | 304.8 | 295.4 | 291.7 | 298.2 | 306.7 | 326.4 |
| 52.5° | 492.4 | 428.6 | 359.2 | 299.2 | 251.3 | 224.2 | 213.8 | 208.2 | 211.9 | 223.2 | 242.9 |
| 55° | 407.0 | 347.9 | 285.1 | 223.2 | 177.2 | 151.9 | 139.7 | 136.0 | 139.7 | 151.9 | 171.6 |
| 57.5° | 321.7 | 272.0 | 219.5 | 161.3 | 120.0 | 94.7 | 82.5 | 78.8 | 89.1 | 93.8 | 114.4 |
| 60° | 251.3 | 211.0 | 166.0 | 118.2 | 82.5 | 62.8 | 50.6 | 47.8 | 52.5 | 60.9 | 77.8 |
| 62.5° | 188.5 | 163.2 | 127.5 | 84.4 | 60.9 | 40.3 | 33.8 | 31.0 | 33.8 | 40.3 | 53.5 |
| 65° | 136.9 | 117.2 | 89.1 | 61.9 | 41.3 | 30.0 | 22.5 | 20.6 | 23.5 | 28.1 | 39.4 |
| 67.5° | 93.8 | 78.8 | 61.9 | 43.1 | 28.1 | 18.7 | 15.9 | 15.9 | 16.9 | 20.6 | 29.1 |
| 70° | 60.9 | 51.6 | 39.4 | 28.1 | 18.7 | 14.1 | 12.2 | 10.3 | 12.2 | 15.0 | 19.7 |
| 72.5° | 38.5 | 32.8 | 25.3 | 19.7 | 14.1 | 10.3 | 8.4 | 7.5 | 9.4 | 11.2 | 15.0 |
| 75° | 23.5 | 17.8 | 13.1 | 10.3 | 7.5 | 7.5 | 7.5 | 3.7 | 4.7 | 7.5 | 9.4 |
| 77.5° | 14.1 | 12.2 | 10.3 | 8.4 | 6.6 | 3.7 | 3.7 | 3.7 | 4.7 | 5.6 | 8.4 |
| 80° | 7.5 | 6.6 | 4.7 | 4.7 | 3.7 | 2.8 | 3.7 | 2.8 | 1.9 | 4.7 | 5.6 |
| 82.5° | 4.7 | 3.7 | 3.7 | 3.7 | 4.7 | 1.9 | 2.8 | 1.9 | 2.8 | 3.7 | 2.8 |
| 85° | 2.8 | 2.8 | 2.8 | 1.9 | 4.7 | 1.9 | 1.9 | 0.9 | 0.9 | 1.9 | 1.9 |
| 87.5° | 0.0 | 0.9 | 0.9 | 0.0 | 0.9 | 0.0 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 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: P244228

CATALOG NUMBER: LSR8B40D010 EC8B409730 8LBDWOLI

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1766.9 | 1766.9 | 1766.9 | 1766.9 | 1766.9 | 1766.9 | 1766.9 | 1766.9 | 1766.9 | 1766.9 | 1766.9 |
| 2.5° | 1769.7 | 1768.8 | 1769.7 | 1768.8 | 1768.8 | 1768.8 | 1769.7 | 1769.7 | 1768.8 | 1768.8 | 1770.7 |
| 5° | 1777.2 | 1777.2 | 1777.2 | 1776.3 | 1775.4 | 1775.4 | 1777.2 | 1777.2 | 1774.4 | 1777.2 | 1777.2 |
| 7.5° | 1793.2 | 1790.4 | 1793.2 | 1789.4 | 1787.6 | 1788.5 | 1789.4 | 1787.6 | 1785.7 | 1786.6 | 1786.6 |
| 10° | 1813.8 | 1811.0 | 1811.0 | 1808.2 | 1805.4 | 1803.5 | 1801.6 | 1796.9 | 1792.2 | 1791.3 | 1787.6 |
| 12.5° | 1838.2 | 1833.5 | 1830.7 | 1825.1 | 1820.4 | 1813.8 | 1808.2 | 1800.7 | 1791.3 | 1784.7 | 1778.2 |
| 15° | 1862.6 | 1855.1 | 1848.5 | 1839.1 | 1828.8 | 1817.6 | 1805.4 | 1793.2 | 1778.2 | 1765.1 | 1753.8 |
| 17.5° | 1882.3 | 1872.0 | 1859.8 | 1844.8 | 1829.8 | 1812.9 | 1795.1 | 1777.2 | 1755.7 | 1738.8 | 1725.7 |
| 20° | 1888.8 | 1873.8 | 1857.9 | 1838.2 | 1818.5 | 1795.1 | 1772.6 | 1749.1 | 1724.7 | 1706.9 | 1691.9 |
| 22.5° | 1880.4 | 1862.6 | 1842.9 | 1822.3 | 1796.0 | 1770.7 | 1744.4 | 1717.2 | 1695.6 | 1671.3 | 1657.2 |
| 25° | 1857.0 | 1835.4 | 1813.8 | 1789.4 | 1764.1 | 1736.0 | 1707.8 | 1679.7 | 1653.4 | 1640.3 | 1622.5 |
| 27.5° | 1809.1 | 1785.7 | 1762.2 | 1736.9 | 1707.8 | 1679.7 | 1650.6 | 1623.4 | 1600.9 | 1583.1 | 1572.8 |
| 30° | 1724.7 | 1697.5 | 1670.3 | 1643.1 | 1617.8 | 1588.7 | 1561.5 | 1539.0 | 1516.5 | 1502.4 | 1492.1 |
| 32.5° | 1595.3 | 1570.9 | 1543.7 | 1517.4 | 1494.0 | 1469.6 | 1447.1 | 1427.4 | 1411.5 | 1402.1 | 1394.6 |
| 35° | 1420.9 | 1396.5 | 1375.8 | 1357.1 | 1337.4 | 1327.1 | 1313.0 | 1301.7 | 1295.2 | 1291.4 | 1290.5 |
| 37.5° | 1201.4 | 1187.3 | 1180.8 | 1177.0 | 1173.3 | 1170.5 | 1172.3 | 1177.0 | 1180.8 | 1187.3 | 1194.8 |
| 40° | 966.9 | 979.1 | 982.9 | 996.0 | 1008.2 | 1024.1 | 1042.0 | 1062.6 | 1079.5 | 1101.0 | 1116.0 |
| 42.5° | 753.1 | 775.6 | 801.9 | 830.0 | 860.0 | 889.1 | 924.7 | 957.5 | 987.6 | 1014.8 | 1038.2 |
| 45° | 578.7 | 613.3 | 652.8 | 693.1 | 733.4 | 775.6 | 818.8 | 859.1 | 894.7 | 923.8 | 948.2 |
| 47.5° | 451.1 | 489.6 | 540.2 | 589.9 | 638.7 | 688.4 | 736.2 | 778.4 | 808.4 | 836.6 | 858.1 |
| 50° | 357.3 | 401.4 | 456.7 | 513.9 | 567.4 | 619.9 | 670.6 | 710.0 | 740.0 | 762.5 | 778.4 |
| 52.5° | 276.7 | 329.2 | 385.5 | 445.5 | 502.7 | 559.9 | 606.8 | 643.4 | 667.8 | 687.4 | 699.6 |
| 55° | 206.3 | 257.9 | 317.9 | 379.8 | 438.0 | 493.3 | 537.4 | 569.3 | 590.9 | 602.1 | 608.7 |
| 57.5° | 149.1 | 196.0 | 256.0 | 317.9 | 370.4 | 423.0 | 458.6 | 487.7 | 499.9 | 506.4 | 509.3 |
| 60° | 108.8 | 151.9 | 205.4 | 258.9 | 308.6 | 350.8 | 381.7 | 401.4 | 410.8 | 414.5 | 413.6 |
| 62.5° | 79.7 | 117.2 | 163.2 | 208.2 | 248.5 | 283.2 | 307.6 | 320.7 | 325.4 | 327.3 | 324.5 |
| 65° | 60.9 | 90.0 | 129.4 | 164.1 | 195.1 | 220.4 | 238.2 | 246.7 | 249.5 | 248.5 | 246.7 |
| 67.5° | 45.0 | 67.5 | 96.6 | 122.9 | 145.4 | 165.1 | 174.4 | 182.0 | 183.8 | 181.0 | 178.2 |
| 70° | 31.9 | 49.7 | 70.3 | 88.2 | 105.0 | 116.3 | 126.6 | 127.5 | 127.5 | 126.6 | 124.7 |
| 72.5° | 22.5 | 34.7 | 47.8 | 60.0 | 70.3 | 78.8 | 82.5 | 85.3 | 84.4 | 83.5 | 81.6 |
| 75° | 15.0 | 21.6 | 34.7 | 37.5 | 46.9 | 49.7 | 53.5 | 53.5 | 54.4 | 51.6 | 51.6 |
| 77.5° | 9.4 | 15.0 | 20.6 | 24.4 | 28.1 | 31.9 | 33.8 | 33.8 | 34.7 | 33.8 | 33.8 |
| 80° | 5.6 | 9.4 | 11.2 | 16.9 | 16.9 | 19.7 | 20.6 | 21.6 | 19.7 | 22.5 | 19.7 |
| 82.5° | 3.7 | 5.6 | 8.4 | 8.4 | 10.3 | 12.2 | 12.2 | 13.1 | 13.1 | 12.2 | 12.2 |
| 85° | 2.8 | 3.7 | 4.7 | 5.6 | 5.6 | 6.6 | 5.6 | 5.6 | 6.6 | 7.5 | 6.6 |
| 87.5° | 0.9 | 1.9 | 0.9 | 1.9 | 1.9 | 3.7 | 2.8 | 2.8 | 2.8 | 3.7 | 3.7 |
| 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: P244228

CATALOG NUMBER: LSR8B40D010 EC8B409730 8LBDW0LI

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 1766.9 | 1766.9 | 1766.9 | 1766.9 |
| 2.5° | 1768.8 | 1769.7 | 1768.8 | 1768.8 |
| 5° | 1777.2 | 1776.3 | 1777.2 | 1775.4 |
| 7.5° | 1783.8 | 1783.8 | 1782.9 | 1782.9 |
| 10° | 1783.8 | 1780.1 | 1780.1 | 1780.1 |
| 12.5° | 1769.7 | 1765.1 | 1762.2 | 1760.3 |
| 15° | 1745.3 | 1736.9 | 1733.2 | 1732.2 |
| 17.5° | 1713.5 | 1706.0 | 1701.3 | 1698.5 |
| 20° | 1676.9 | 1669.4 | 1663.8 | 1664.7 |
| 22.5° | 1645.0 | 1636.6 | 1632.8 | 1630.9 |
| 25° | 1613.1 | 1602.8 | 1600.0 | 1598.1 |
| 27.5° | 1561.5 | 1555.9 | 1553.1 | 1550.3 |
| 30° | 1482.7 | 1479.9 | 1475.2 | 1481.8 |
| 32.5° | 1391.8 | 1387.1 | 1383.3 | 1386.2 |
| 35° | 1291.4 | 1288.6 | 1291.4 | 1289.6 |
| 37.5° | 1199.5 | 1202.3 | 1206.1 | 1208.0 |
| 40° | 1127.3 | 1137.6 | 1141.4 | 1143.2 |
| 42.5° | 1055.1 | 1067.3 | 1074.8 | 1079.5 |
| 45° | 966.0 | 978.2 | 986.6 | 992.3 |
| 47.5° | 874.1 | 884.4 | 892.8 | 891.9 |
| 50° | 790.6 | 796.2 | 800.0 | 803.7 |
| 52.5° | 706.2 | 706.2 | 707.1 | 707.1 |
| 55° | 610.5 | 608.7 | 607.7 | 608.7 |
| 57.5° | 505.5 | 503.6 | 502.7 | 499.9 |
| 60° | 409.8 | 404.2 | 400.5 | 400.5 |
| 62.5° | 320.7 | 314.2 | 311.4 | 310.4 |
| 65° | 241.0 | 240.1 | 234.5 | 233.5 |
| 67.5° | 174.4 | 170.7 | 166.9 | 167.9 |
| 70° | 122.9 | 117.2 | 117.2 | 115.4 |
| 72.5° | 79.7 | 76.9 | 76.0 | 76.0 |
| 75° | 49.7 | 49.7 | 47.8 | 51.6 |
| 77.5° | 32.8 | 32.8 | 31.9 | 32.8 |
| 80° | 19.7 | 19.7 | 19.7 | 18.7 |
| 82.5° | 12.2 | 13.1 | 12.2 | 12.2 |
| 85° | 6.6 | 7.5 | 5.6 | 8.4 |
| 87.5° | 3.7 | 4.7 | 3.7 | 4.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)