

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: FAIL-SAFE

Report Number: P838011

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-4STD-40-120-EDD-90**

Issue Date: 5/21/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P838011  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 5/21/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: ORLG-24-2-INS-ASY2R-LD4-4STD-40-120-EDD-90  
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and  
RFI grid  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

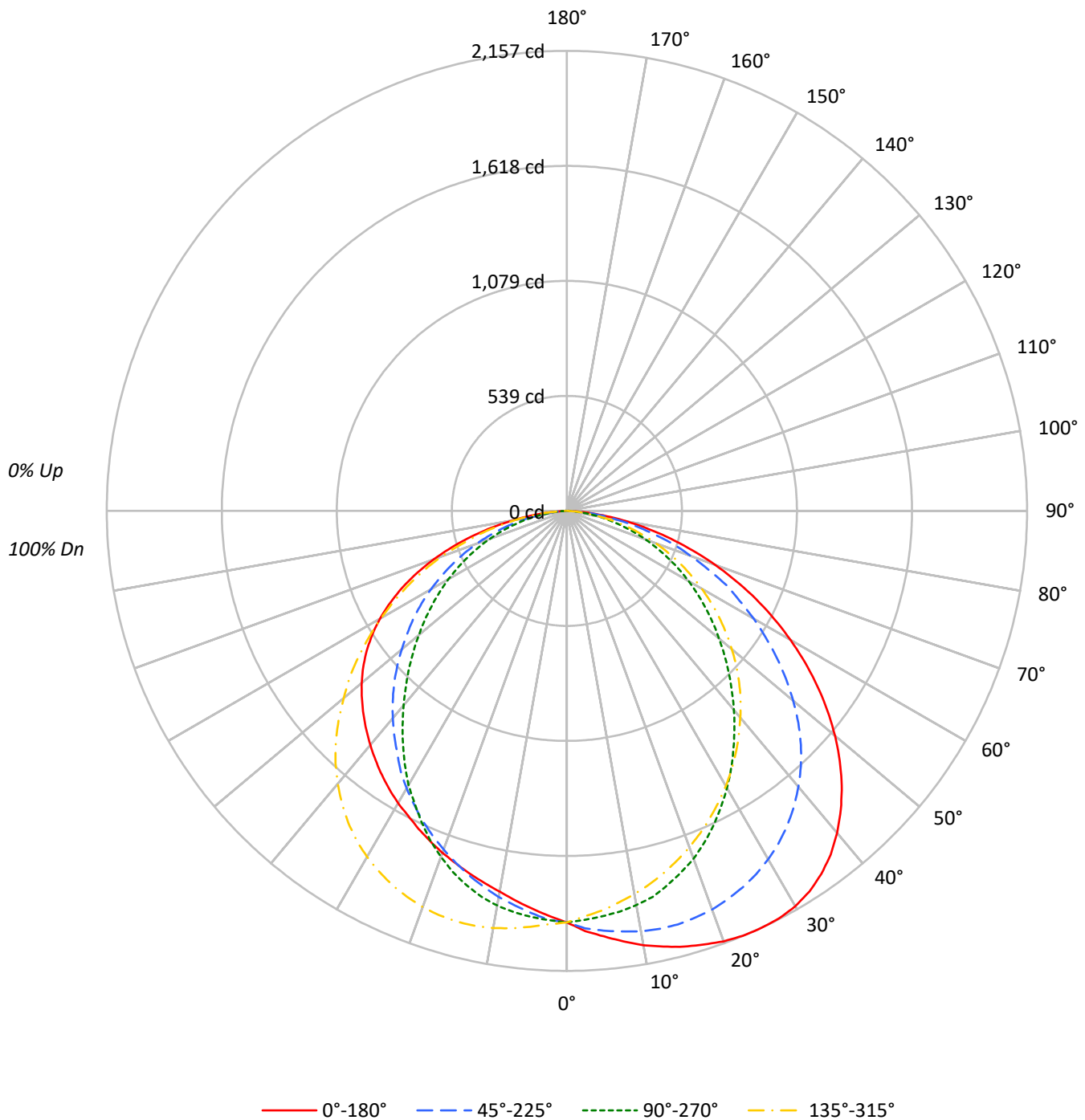
Lumens per Lamp: N/A  
Luminaire Lumens: 5659.7 lumens  
Efficiency: N/A  
Efficacy: 85.0 lumens/watt  
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 66.6  
Input Voltage (V): 120  
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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CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-4STD-40-120-EDD-90

### Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P838011

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-4STD-40-120-EDD-90

**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   | 109 | 104 | 100 | 96  | 106 | 102 | 98  | 94  | 97  | 94  | 91  | 94  | 91  | 89  | 90  | 88  | 86  | 84  |    |    |
| 2   | 99  | 91  | 84  | 78  | 96  | 89  | 82  | 77  | 85  | 80  | 75  | 82  | 77  | 73  | 79  | 75  | 72  | 70  |    |    |
| 3   | 90  | 79  | 71  | 65  | 88  | 78  | 70  | 64  | 75  | 68  | 63  | 72  | 66  | 62  | 69  | 65  | 61  | 59  |    |    |
| 4   | 82  | 70  | 61  | 55  | 80  | 69  | 61  | 54  | 66  | 59  | 53  | 64  | 58  | 53  | 62  | 56  | 52  | 50  |    |    |
| 5   | 76  | 63  | 54  | 47  | 74  | 62  | 53  | 47  | 59  | 52  | 46  | 57  | 51  | 46  | 56  | 50  | 45  | 43  |    |    |
| 6   | 70  | 56  | 47  | 41  | 68  | 55  | 47  | 41  | 54  | 46  | 40  | 52  | 45  | 40  | 50  | 44  | 40  | 38  |    |    |
| 7   | 65  | 51  | 42  | 36  | 63  | 50  | 42  | 36  | 49  | 41  | 36  | 47  | 40  | 35  | 46  | 40  | 35  | 33  |    |    |
| 8   | 60  | 47  | 38  | 32  | 59  | 46  | 38  | 32  | 45  | 37  | 32  | 43  | 37  | 32  | 42  | 36  | 31  | 29  |    |    |
| 9   | 56  | 43  | 34  | 29  | 55  | 42  | 34  | 29  | 41  | 34  | 29  | 40  | 33  | 28  | 39  | 33  | 28  | 26  |    |    |
| 10  | 53  | 39  | 31  | 26  | 51  | 39  | 31  | 26  | 38  | 31  | 26  | 37  | 30  | 26  | 36  | 30  | 26  | 24  |    |    |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°   | 90°  | 180° | 270° |
|-----|------|------|------|------|
| 0°  | 5191 | 5191 | 5191 | 5191 |
| 5°  | 5410 | 5154 | 5057 | 5162 |
| 10° | 5651 | 5128 | 4954 | 5135 |
| 15° | 5893 | 5062 | 4905 | 5063 |
| 20° | 6151 | 4970 | 4884 | 4942 |
| 25° | 6405 | 4831 | 4883 | 4782 |
| 30° | 6653 | 4663 | 4916 | 4612 |
| 35° | 6830 | 4472 | 4965 | 4401 |
| 40° | 6921 | 4279 | 5035 | 4183 |
| 45° | 6934 | 4084 | 5132 | 3981 |
| 50° | 6869 | 3898 | 5258 | 3794 |
| 55° | 6726 | 3724 | 5375 | 3620 |
| 60° | 6515 | 3543 | 5447 | 3451 |
| 65° | 6223 | 3335 | 5418 | 3258 |
| 70° | 5814 | 3091 | 5226 | 3034 |
| 75° | 5231 | 2755 | 4795 | 2742 |
| 80° | 4435 | 2307 | 4031 | 2343 |
| 85° | 3084 | 1528 | 2556 | 1568 |

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P838011

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-4STD-40-120-EDD-90

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 183.2  | 3.2       |
| 10°-20°   | 530.4  | 9.4       |
| 20°-30°   | 812.8  | 14.4      |
| 30°-40°   | 988.3  | 17.5      |
| 40°-50°   | 1027.4 | 18.2      |
| 50°-60°   | 928.1  | 16.4      |
| 60°-70°   | 705.6  | 12.5      |
| 70°-80°   | 393.3  | 6.9       |
| 80°-90°   | 90.5   | 1.6       |
| 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°    | 1526.4 | 27.0      |
| 0°-40°    | 2514.7 | 44.4      |
| 0°-60°    | 4470.2 | 79.0      |
| 0°-90°    | 5659.7 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5659.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 90°  | 180° | 270° | 360° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1929 | 1929 | 1929 | 1929 | 1929 |      |
| 5°  | 2003 | 1908 | 1872 | 1911 | 2003 | 193  |
| 15° | 2115 | 1817 | 1761 | 1818 | 2115 | 600  |
| 25° | 2157 | 1627 | 1645 | 1610 | 2157 | 996  |
| 35° | 2079 | 1361 | 1512 | 1340 | 2079 | 1298 |
| 45° | 1822 | 1073 | 1349 | 1046 | 1822 | 1403 |
| 55° | 1434 | 794  | 1146 | 772  | 1434 | 1280 |
| 65° | 977  | 524  | 851  | 512  | 977  | 966  |
| 75° | 503  | 265  | 461  | 264  | 503  | 534  |
| 85° | 100  | 50   | 83   | 51   | 100  | 126  |
| 90° | 0    | 0    | 0    | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1929.1 | 1929.1 | 1929.1 | 1929.1 | 1929.1 | 1929.1 | 1929.1 | 1929.1 | 1929.1 | 1929.1 | 1929.1 |
| 2.5°  | 1971.9 | 1943.1 | 1943.5 | 1968.7 | 1949.4 | 1958.8 | 1931.8 | 1942.2 | 1939.0 | 1941.3 | 1919.2 |
| 5°    | 2002.9 | 1971.9 | 1971.4 | 1993.0 | 1971.4 | 1975.5 | 1941.3 | 1948.0 | 1938.1 | 1931.8 | 1908.0 |
| 7.5°  | 2035.8 | 2004.7 | 2001.6 | 2020.5 | 1992.1 | 1989.0 | 1951.2 | 1951.2 | 1933.2 | 1917.4 | 1894.9 |
| 10°   | 2068.2 | 2036.2 | 2032.2 | 2046.6 | 2011.5 | 2001.1 | 1955.2 | 1948.0 | 1924.2 | 1900.8 | 1876.5 |
| 12.5° | 2092.5 | 2060.1 | 2056.9 | 2065.9 | 2026.3 | 2007.4 | 1955.2 | 1941.3 | 1906.2 | 1873.3 | 1854.4 |
| 15°   | 2115.4 | 2082.1 | 2073.6 | 2078.1 | 2032.6 | 2007.4 | 1948.9 | 1927.3 | 1882.3 | 1839.1 | 1817.1 |
| 17.5° | 2131.6 | 2099.7 | 2091.1 | 2090.7 | 2035.8 | 1999.8 | 1935.4 | 1905.7 | 1851.7 | 1799.5 | 1777.5 |
| 20°   | 2147.8 | 2115.9 | 2105.1 | 2097.0 | 2034.9 | 1989.4 | 1915.6 | 1875.6 | 1812.6 | 1754.1 | 1735.6 |
| 22.5° | 2155.9 | 2123.1 | 2111.4 | 2099.2 | 2029.0 | 1970.5 | 1891.3 | 1840.5 | 1768.5 | 1698.7 | 1683.4 |
| 25°   | 2157.3 | 2123.5 | 2110.9 | 2093.4 | 2017.3 | 1948.0 | 1859.8 | 1798.2 | 1717.6 | 1640.2 | 1627.2 |
| 27.5° | 2153.7 | 2116.8 | 2104.2 | 2083.0 | 1999.8 | 1920.6 | 1822.5 | 1750.0 | 1663.6 | 1578.1 | 1564.2 |
| 30°   | 2141.1 | 2103.7 | 2091.6 | 2064.1 | 1975.0 | 1886.8 | 1781.5 | 1696.5 | 1603.8 | 1512.9 | 1500.7 |
| 32.5° | 2115.9 | 2079.4 | 2069.5 | 2042.1 | 1948.0 | 1847.7 | 1733.8 | 1638.9 | 1537.6 | 1450.8 | 1432.8 |
| 35°   | 2079.0 | 2042.5 | 2036.2 | 2007.4 | 1910.2 | 1800.9 | 1681.6 | 1575.9 | 1467.4 | 1378.8 | 1361.2 |
| 37.5° | 2030.8 | 2000.2 | 1990.8 | 1962.4 | 1865.7 | 1747.8 | 1621.8 | 1507.5 | 1395.9 | 1300.5 | 1289.7 |
| 40°   | 1970.1 | 1941.3 | 1934.1 | 1908.9 | 1813.9 | 1688.8 | 1557.0 | 1436.8 | 1322.1 | 1233.4 | 1218.1 |
| 42.5° | 1900.8 | 1873.8 | 1869.7 | 1843.6 | 1750.0 | 1623.6 | 1486.8 | 1363.5 | 1245.1 | 1159.6 | 1144.3 |
| 45°   | 1822.0 | 1795.9 | 1795.0 | 1770.3 | 1680.3 | 1551.1 | 1413.0 | 1289.2 | 1170.0 | 1081.3 | 1073.2 |
| 47.5° | 1735.2 | 1711.8 | 1711.8 | 1688.8 | 1602.4 | 1471.5 | 1336.9 | 1211.8 | 1094.4 | 1016.1 | 1001.7 |
| 50°   | 1640.7 | 1618.6 | 1611.9 | 1600.6 | 1516.5 | 1384.6 | 1256.8 | 1136.2 | 1019.7 | 945.0  | 931.0  |
| 52.5° | 1539.9 | 1521.0 | 1525.5 | 1504.8 | 1423.3 | 1294.2 | 1175.8 | 1051.2 | 944.5  | 876.6  | 862.6  |
| 55°   | 1433.7 | 1406.7 | 1410.7 | 1403.1 | 1326.1 | 1201.0 | 1084.9 | 981.0  | 870.7  | 806.8  | 793.8  |
| 57.5° | 1323.4 | 1288.3 | 1302.7 | 1298.2 | 1222.6 | 1105.6 | 1001.7 | 901.3  | 797.4  | 738.4  | 725.8  |
| 60°   | 1210.5 | 1176.7 | 1191.6 | 1187.5 | 1116.4 | 1010.2 | 915.7  | 822.6  | 724.5  | 670.9  | 658.3  |
| 62.5° | 1094.4 | 1063.3 | 1076.8 | 1073.7 | 1008.4 | 912.6  | 830.2  | 744.7  | 651.1  | 603.0  | 591.3  |
| 65°   | 977.4  | 947.7  | 959.8  | 957.6  | 897.3  | 824.4  | 742.5  | 664.2  | 577.3  | 535.5  | 523.8  |
| 67.5° | 857.7  | 830.2  | 841.5  | 841.5  | 786.1  | 716.4  | 654.3  | 582.7  | 504.9  | 468.9  | 458.1  |
| 70°   | 738.9  | 713.2  | 723.1  | 722.2  | 675.4  | 618.7  | 565.2  | 501.3  | 431.5  | 401.8  | 392.8  |
| 72.5° | 619.2  | 596.7  | 605.7  | 604.8  | 565.6  | 529.2  | 476.1  | 420.7  | 360.0  | 336.1  | 328.0  |
| 75°   | 503.1  | 481.9  | 490.5  | 489.6  | 457.6  | 423.4  | 387.9  | 342.0  | 289.8  | 273.1  | 265.0  |
| 77.5° | 392.4  | 370.8  | 378.0  | 378.0  | 354.6  | 329.8  | 301.5  | 265.9  | 229.0  | 211.0  | 205.2  |
| 80°   | 286.2  | 275.8  | 272.2  | 272.7  | 256.9  | 240.7  | 226.3  | 192.1  | 165.1  | 153.0  | 148.9  |
| 82.5° | 188.1  | 179.5  | 175.9  | 176.8  | 167.8  | 157.9  | 148.9  | 125.1  | 107.1  | 99.9   | 97.6   |
| 85°   | 99.9   | 93.6   | 90.4   | 92.7   | 90.9   | 85.5   | 81.0   | 64.8   | 53.5   | 50.8   | 49.5   |
| 87.5° | 31.5   | 27.4   | 25.2   | 33.3   | 28.3   | 25.2   | 24.3   | 19.3   | 14.8   | 14.8   | 14.4   |
| 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):**

|       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   | 185°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1929.1 | 1929.1 | 1929.1 | 1929.1 | 1929.1 | 1929.1 | 1929.1 | 1929.1 | 1929.1 | 1929.1 | 1929.1 |
| 2.5°  | 1926.4 | 1926.4 | 1908.9 | 1904.8 | 1903.0 | 1905.3 | 1887.7 | 1884.6 | 1909.8 | 1901.2 | 1881.9 |
| 5°    | 1911.1 | 1910.2 | 1885.5 | 1881.0 | 1881.0 | 1878.3 | 1858.5 | 1854.0 | 1879.2 | 1872.0 | 1850.8 |
| 7.5°  | 1892.2 | 1889.5 | 1860.3 | 1857.1 | 1852.6 | 1850.8 | 1828.8 | 1825.6 | 1847.2 | 1842.7 | 1822.9 |
| 10°   | 1869.3 | 1866.6 | 1831.9 | 1829.7 | 1824.7 | 1821.1 | 1800.4 | 1798.2 | 1820.2 | 1813.0 | 1797.3 |
| 12.5° | 1839.1 | 1834.2 | 1798.6 | 1796.4 | 1792.3 | 1791.0 | 1770.7 | 1769.8 | 1794.1 | 1786.9 | 1770.3 |
| 15°   | 1799.5 | 1795.5 | 1755.9 | 1756.8 | 1757.2 | 1757.2 | 1741.0 | 1740.1 | 1764.0 | 1760.8 | 1742.8 |
| 17.5° | 1755.9 | 1750.5 | 1712.7 | 1715.4 | 1718.5 | 1722.1 | 1709.5 | 1711.8 | 1737.0 | 1732.9 | 1716.7 |
| 20°   | 1706.4 | 1701.0 | 1664.1 | 1671.7 | 1678.5 | 1685.7 | 1677.6 | 1683.9 | 1707.3 | 1705.5 | 1693.3 |
| 22.5° | 1651.0 | 1645.6 | 1611.4 | 1623.1 | 1634.4 | 1647.9 | 1644.3 | 1651.5 | 1676.2 | 1675.8 | 1665.0 |
| 25°   | 1583.5 | 1584.9 | 1554.7 | 1569.1 | 1588.0 | 1606.9 | 1608.3 | 1620.0 | 1647.4 | 1644.7 | 1634.8 |
| 27.5° | 1520.5 | 1522.3 | 1490.4 | 1514.7 | 1539.9 | 1564.2 | 1570.0 | 1586.2 | 1614.1 | 1611.9 | 1603.3 |
| 30°   | 1454.4 | 1456.6 | 1425.6 | 1458.9 | 1489.5 | 1519.2 | 1531.8 | 1553.8 | 1582.2 | 1582.2 | 1573.2 |
| 32.5° | 1385.5 | 1389.6 | 1357.2 | 1401.7 | 1437.3 | 1471.9 | 1494.0 | 1516.9 | 1549.3 | 1548.4 | 1540.8 |
| 35°   | 1314.9 | 1319.4 | 1289.7 | 1346.4 | 1381.9 | 1424.2 | 1451.7 | 1482.3 | 1511.1 | 1511.5 | 1505.7 |
| 37.5° | 1242.9 | 1248.3 | 1221.3 | 1283.4 | 1323.9 | 1373.8 | 1408.9 | 1439.5 | 1471.5 | 1473.3 | 1467.9 |
| 40°   | 1171.3 | 1177.2 | 1153.8 | 1213.6 | 1264.9 | 1320.7 | 1361.2 | 1397.2 | 1432.3 | 1433.2 | 1429.6 |
| 42.5° | 1099.8 | 1106.1 | 1088.5 | 1147.0 | 1205.1 | 1264.9 | 1312.6 | 1353.6 | 1389.6 | 1391.8 | 1387.8 |
| 45°   | 1030.0 | 1035.4 | 1022.8 | 1086.7 | 1142.5 | 1207.8 | 1262.7 | 1309.0 | 1345.5 | 1348.6 | 1347.3 |
| 47.5° | 960.7  | 965.7  | 954.4  | 1012.9 | 1077.3 | 1146.6 | 1210.0 | 1261.3 | 1300.0 | 1303.6 | 1302.7 |
| 50°   | 892.8  | 896.8  | 884.7  | 945.9  | 1009.8 | 1083.6 | 1149.7 | 1209.1 | 1252.3 | 1255.9 | 1255.5 |
| 52.5° | 825.3  | 829.3  | 819.0  | 883.3  | 941.4  | 1019.2 | 1091.2 | 1155.6 | 1198.3 | 1203.7 | 1204.6 |
| 55°   | 760.0  | 761.8  | 753.7  | 815.4  | 871.6  | 953.1  | 1035.9 | 1098.4 | 1141.2 | 1145.7 | 1148.4 |
| 57.5° | 694.8  | 695.2  | 688.5  | 747.4  | 801.4  | 884.7  | 971.5  | 1037.2 | 1077.7 | 1082.2 | 1086.3 |
| 60°   | 630.0  | 629.5  | 621.9  | 679.0  | 730.8  | 813.1  | 903.6  | 968.8  | 1008.0 | 1012.0 | 1017.4 |
| 62.5° | 565.6  | 564.3  | 557.5  | 610.2  | 658.8  | 740.2  | 831.1  | 894.1  | 931.5  | 934.2  | 941.4  |
| 65°   | 501.7  | 500.4  | 494.1  | 542.7  | 586.8  | 664.6  | 753.7  | 813.6  | 847.3  | 850.9  | 849.6  |
| 67.5° | 438.7  | 436.0  | 431.1  | 474.7  | 514.8  | 586.8  | 672.3  | 729.4  | 757.3  | 760.5  | 769.0  |
| 70°   | 375.7  | 372.6  | 361.3  | 407.7  | 442.8  | 507.1  | 586.8  | 637.6  | 661.0  | 664.2  | 662.8  |
| 72.5° | 313.6  | 310.5  | 298.3  | 341.1  | 370.8  | 427.0  | 498.1  | 540.4  | 560.7  | 563.4  | 563.4  |
| 75°   | 253.3  | 251.5  | 243.9  | 276.3  | 301.0  | 346.9  | 407.2  | 442.3  | 458.1  | 461.2  | 460.3  |
| 77.5° | 195.3  | 193.9  | 186.3  | 214.2  | 233.5  | 267.7  | 316.3  | 343.8  | 355.5  | 359.1  | 366.7  |
| 80°   | 139.9  | 139.5  | 127.3  | 154.8  | 163.3  | 192.1  | 227.7  | 248.8  | 255.1  | 260.1  | 265.5  |
| 82.5° | 89.5   | 90.0   | 77.8   | 101.2  | 104.8  | 123.3  | 145.3  | 158.4  | 162.9  | 166.9  | 171.0  |
| 85°   | 43.6   | 45.4   | 38.7   | 53.5   | 54.0   | 63.4   | 72.9   | 77.8   | 79.6   | 82.8   | 86.4   |
| 87.5° | 11.2   | 13.0   | 7.2    | 15.3   | 13.5   | 17.5   | 20.2   | 21.6   | 21.1   | 23.4   | 24.7   |
| 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):**

|       | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   | 285°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1929.1 | 1929.1 | 1929.1 | 1929.1 | 1929.1 | 1929.1 | 1929.1 | 1929.1 | 1929.1 | 1929.1 | 1929.1 |
| 2.5°  | 1888.2 | 1902.6 | 1895.4 | 1918.8 | 1927.8 | 1913.4 | 1938.6 | 1939.0 | 1921.0 | 1942.2 | 1953.9 |
| 5°    | 1858.9 | 1873.8 | 1869.3 | 1893.6 | 1904.8 | 1892.2 | 1922.8 | 1928.7 | 1911.1 | 1935.0 | 1953.9 |
| 7.5°  | 1829.2 | 1846.8 | 1840.9 | 1865.7 | 1879.2 | 1869.3 | 1902.1 | 1911.6 | 1898.1 | 1924.2 | 1949.4 |
| 10°   | 1803.6 | 1818.4 | 1812.1 | 1838.2 | 1849.9 | 1841.8 | 1874.2 | 1891.8 | 1879.2 | 1911.1 | 1941.3 |
| 12.5° | 1778.4 | 1790.5 | 1783.3 | 1804.9 | 1816.2 | 1805.8 | 1845.4 | 1861.6 | 1852.6 | 1885.9 | 1924.6 |
| 15°   | 1746.0 | 1759.5 | 1749.6 | 1768.9 | 1777.5 | 1768.5 | 1800.9 | 1828.8 | 1817.5 | 1854.0 | 1896.7 |
| 17.5° | 1721.2 | 1728.9 | 1715.4 | 1730.7 | 1735.6 | 1723.5 | 1756.3 | 1783.8 | 1775.7 | 1815.3 | 1864.8 |
| 20°   | 1693.8 | 1700.1 | 1681.2 | 1689.7 | 1689.3 | 1674.0 | 1704.1 | 1731.1 | 1725.7 | 1769.4 | 1825.6 |
| 22.5° | 1663.2 | 1666.3 | 1644.3 | 1646.1 | 1645.2 | 1620.0 | 1647.0 | 1674.4 | 1672.2 | 1716.3 | 1779.3 |
| 25°   | 1630.8 | 1631.2 | 1602.9 | 1602.0 | 1592.1 | 1562.4 | 1586.2 | 1617.3 | 1610.5 | 1658.2 | 1724.4 |
| 27.5° | 1598.8 | 1594.3 | 1560.1 | 1552.0 | 1536.3 | 1500.7 | 1521.9 | 1549.8 | 1545.7 | 1592.5 | 1665.9 |
| 30°   | 1564.6 | 1558.8 | 1516.9 | 1502.1 | 1479.1 | 1438.2 | 1455.7 | 1481.8 | 1484.1 | 1525.0 | 1602.0 |
| 32.5° | 1532.2 | 1517.4 | 1471.0 | 1449.4 | 1420.6 | 1372.9 | 1382.4 | 1408.9 | 1412.5 | 1453.9 | 1533.1 |
| 35°   | 1490.4 | 1480.5 | 1423.3 | 1386.4 | 1358.1 | 1305.9 | 1315.8 | 1334.2 | 1339.6 | 1380.1 | 1460.7 |
| 37.5° | 1450.8 | 1435.0 | 1374.3 | 1329.3 | 1292.8 | 1237.9 | 1240.6 | 1259.5 | 1264.9 | 1305.9 | 1385.5 |
| 40°   | 1409.8 | 1387.3 | 1322.1 | 1269.4 | 1227.6 | 1170.0 | 1166.8 | 1186.6 | 1190.7 | 1230.7 | 1302.7 |
| 42.5° | 1366.2 | 1339.2 | 1265.8 | 1208.2 | 1160.1 | 1101.6 | 1095.3 | 1112.4 | 1116.9 | 1156.0 | 1226.7 |
| 45°   | 1322.1 | 1289.7 | 1208.2 | 1145.2 | 1092.6 | 1032.7 | 1026.4 | 1039.5 | 1046.2 | 1083.1 | 1151.1 |
| 47.5° | 1275.3 | 1237.5 | 1148.8 | 1078.6 | 1024.2 | 964.3  | 956.7  | 969.7  | 975.1  | 1011.6 | 1075.9 |
| 50°   | 1226.2 | 1180.3 | 1087.6 | 1010.2 | 956.2  | 897.3  | 886.0  | 901.3  | 906.3  | 940.5  | 1003.5 |
| 52.5° | 1172.2 | 1121.4 | 1022.4 | 941.4  | 887.4  | 831.1  | 817.6  | 832.5  | 838.3  | 871.6  | 929.7  |
| 55°   | 1115.1 | 1060.2 | 956.7  | 877.9  | 819.4  | 764.5  | 753.3  | 759.1  | 771.7  | 803.2  | 857.2  |
| 57.5° | 1050.7 | 996.3  | 887.4  | 807.3  | 751.0  | 698.4  | 688.9  | 694.3  | 706.0  | 736.6  | 785.2  |
| 60°   | 982.3  | 924.7  | 816.7  | 736.6  | 682.2  | 632.2  | 623.7  | 628.6  | 641.2  | 669.1  | 714.1  |
| 62.5° | 914.8  | 850.0  | 743.8  | 664.2  | 614.7  | 568.3  | 566.1  | 564.3  | 576.0  | 603.0  | 642.6  |
| 65°   | 832.9  | 770.8  | 667.8  | 592.2  | 547.2  | 505.3  | 496.3  | 500.4  | 511.6  | 536.4  | 577.8  |
| 67.5° | 745.2  | 688.9  | 589.9  | 520.2  | 480.1  | 442.8  | 435.1  | 436.9  | 448.6  | 470.2  | 506.2  |
| 70°   | 652.0  | 602.5  | 510.3  | 447.7  | 414.0  | 378.9  | 373.9  | 374.4  | 385.6  | 404.5  | 436.0  |
| 72.5° | 554.4  | 509.8  | 429.7  | 376.2  | 348.3  | 323.1  | 318.6  | 313.2  | 323.5  | 339.7  | 366.7  |
| 75°   | 454.9  | 415.8  | 349.6  | 306.0  | 283.9  | 262.8  | 258.7  | 253.3  | 263.7  | 277.6  | 298.8  |
| 77.5° | 354.6  | 323.1  | 271.8  | 238.0  | 220.9  | 205.2  | 201.6  | 195.7  | 206.1  | 216.4  | 233.1  |
| 80°   | 256.5  | 233.5  | 202.9  | 167.4  | 161.5  | 151.2  | 147.6  | 141.3  | 151.2  | 157.9  | 170.5  |
| 82.5° | 165.6  | 150.3  | 132.7  | 108.0  | 107.1  | 99.4   | 97.6   | 90.4   | 99.4   | 103.5  | 112.9  |
| 85°   | 83.7   | 76.5   | 72.0   | 54.9   | 56.7   | 51.7   | 51.3   | 43.6   | 50.8   | 52.6   | 58.0   |
| 87.5° | 23.8   | 25.2   | 22.5   | 13.5   | 17.1   | 16.2   | 16.2   | 11.7   | 16.2   | 16.2   | 18.4   |
| 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: P838011

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-4STD-40-120-EDD-90

**CANDELA DISTRIBUTION (continued):**

|       | 295°   | 305°   | 315°   | 325°   | 335°   | 345°   | 355°   | 360°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1929.1 | 1929.1 | 1929.1 | 1929.1 | 1929.1 | 1929.1 | 1929.1 | 1929.1 |
| 2.5°  | 1930.9 | 1938.6 | 1940.4 | 1939.9 | 1944.9 | 1971.9 | 1962.9 | 1971.9 |
| 5°    | 1935.4 | 1952.5 | 1957.0 | 1963.3 | 1971.4 | 2002.0 | 1992.1 | 2002.9 |
| 7.5°  | 1938.1 | 1963.8 | 1973.7 | 1985.8 | 1998.9 | 2033.1 | 2025.0 | 2035.8 |
| 10°   | 1938.1 | 1971.4 | 1985.8 | 2006.1 | 2023.6 | 2063.2 | 2055.6 | 2068.2 |
| 12.5° | 1930.0 | 1972.8 | 1993.0 | 2021.4 | 2043.9 | 2086.6 | 2083.5 | 2092.5 |
| 15°   | 1913.4 | 1966.0 | 1993.9 | 2030.4 | 2058.3 | 2106.0 | 2104.6 | 2115.4 |
| 17.5° | 1890.9 | 1954.3 | 1988.1 | 2034.0 | 2069.1 | 2122.6 | 2125.8 | 2131.6 |
| 20°   | 1862.5 | 1932.3 | 1976.4 | 2032.6 | 2076.7 | 2135.7 | 2139.7 | 2147.8 |
| 22.5° | 1825.2 | 1905.7 | 1958.8 | 2026.8 | 2077.6 | 2141.1 | 2148.3 | 2155.9 |
| 25°   | 1781.1 | 1873.8 | 1935.9 | 2015.5 | 2073.1 | 2140.6 | 2150.5 | 2157.3 |
| 27.5° | 1730.7 | 1832.4 | 1906.6 | 1997.5 | 2060.5 | 2133.4 | 2145.6 | 2153.7 |
| 30°   | 1672.2 | 1788.3 | 1873.3 | 1974.1 | 2043.4 | 2119.9 | 2133.0 | 2141.1 |
| 32.5° | 1611.9 | 1739.7 | 1833.7 | 1944.0 | 2018.7 | 2098.3 | 2109.6 | 2115.9 |
| 35°   | 1546.2 | 1680.7 | 1786.0 | 1905.3 | 1986.7 | 2063.7 | 2072.2 | 2079.0 |
| 37.5° | 1474.6 | 1616.8 | 1731.6 | 1861.6 | 1941.7 | 2015.5 | 2023.2 | 2030.8 |
| 40°   | 1400.8 | 1549.8 | 1670.4 | 1808.1 | 1888.2 | 1956.6 | 1964.7 | 1970.1 |
| 42.5° | 1326.6 | 1475.5 | 1605.1 | 1745.1 | 1824.7 | 1890.4 | 1895.4 | 1900.8 |
| 45°   | 1251.4 | 1398.6 | 1531.8 | 1675.3 | 1754.1 | 1815.7 | 1817.5 | 1822.0 |
| 47.5° | 1174.9 | 1318.9 | 1451.2 | 1595.7 | 1673.5 | 1729.8 | 1731.6 | 1735.2 |
| 50°   | 1098.0 | 1239.3 | 1365.3 | 1509.7 | 1585.8 | 1645.2 | 1637.1 | 1640.7 |
| 52.5° | 1022.4 | 1155.6 | 1284.3 | 1417.0 | 1492.2 | 1544.8 | 1547.1 | 1539.9 |
| 55°   | 948.1  | 1073.7 | 1192.0 | 1319.8 | 1391.4 | 1432.3 | 1431.0 | 1433.7 |
| 57.5° | 873.0  | 990.9  | 1099.3 | 1216.3 | 1286.1 | 1324.8 | 1332.9 | 1323.4 |
| 60°   | 796.5  | 907.2  | 1004.4 | 1110.1 | 1177.6 | 1210.0 | 1219.5 | 1210.5 |
| 62.5° | 720.4  | 822.1  | 910.3  | 1002.6 | 1065.1 | 1105.2 | 1104.3 | 1094.4 |
| 65°   | 644.4  | 736.6  | 815.4  | 893.7  | 948.1  | 988.2  | 986.4  | 977.4  |
| 67.5° | 574.2  | 650.2  | 720.9  | 784.3  | 831.6  | 859.0  | 868.5  | 857.7  |
| 70°   | 496.8  | 562.5  | 624.6  | 675.4  | 714.6  | 739.3  | 748.3  | 738.9  |
| 72.5° | 419.4  | 475.2  | 518.8  | 567.9  | 598.0  | 618.7  | 628.2  | 619.2  |
| 75°   | 342.9  | 388.8  | 424.3  | 462.6  | 483.7  | 501.3  | 512.1  | 503.1  |
| 77.5° | 268.6  | 304.2  | 332.5  | 360.4  | 384.7  | 388.8  | 398.2  | 392.4  |
| 80°   | 198.0  | 223.6  | 244.3  | 262.8  | 280.3  | 282.1  | 289.8  | 286.2  |
| 82.5° | 131.8  | 148.9  | 154.3  | 173.7  | 184.9  | 183.1  | 190.8  | 188.1  |
| 85°   | 69.7   | 80.1   | 89.5   | 95.4   | 101.7  | 95.8   | 102.6  | 99.9   |
| 87.5° | 23.4   | 24.7   | 21.6   | 30.6   | 33.7   | 28.8   | 32.8   | 31.5   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)