

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: P835309

Luminaire Tested: **ORLG-24-2-INS-ASY2-LD4-5LO-30-120-EDD-90**

Issue Date: 5/16/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P835309  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 5/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: ORLG-24-2-INS-ASY2-LD4-5LO-30-120-EDD-90  
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

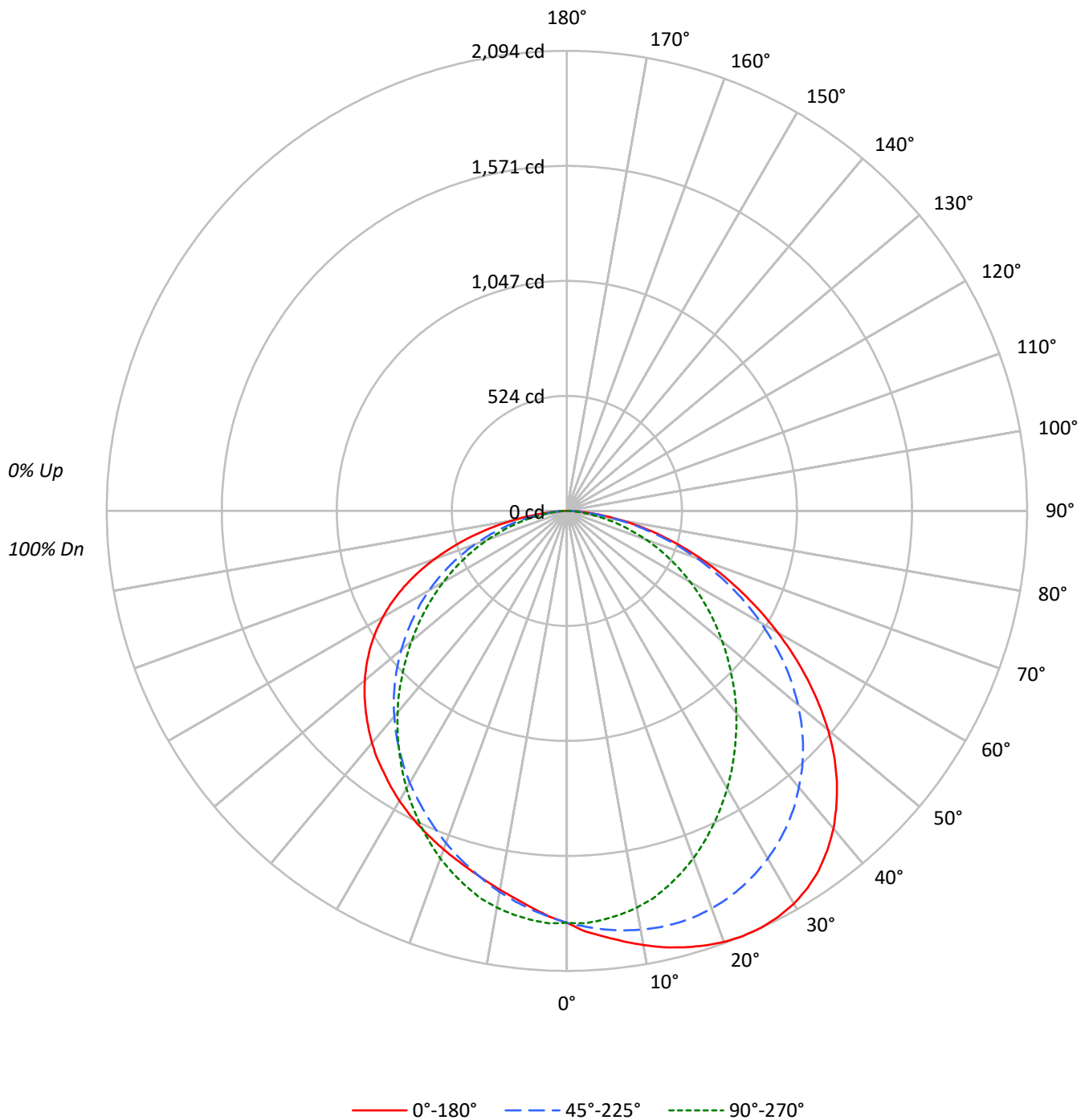
Lumens per Lamp: N/A  
Luminaire Lumens: 5515.5 lumens  
Efficiency: N/A  
Efficacy: 94.3 lumens/watt  
Spacing Criteria (0/90/45): 1.41 / 1.17 / 1.4  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 58.5  
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: 28.75 FT

TEST NUMBER: P835309

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### Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 109 | 104 | 100 | 96  | 106 | 102 | 98  | 94  | 97  | 94  | 91  |  | 94  | 91  | 88  |  | 90  |
| 2   | 99  | 90  | 84  | 78  | 96  | 89  | 82  | 77  | 85  | 80  | 75  |  | 82  | 77  | 73  |  | 79  |
| 3   | 90  | 79  | 71  | 65  | 87  | 78  | 70  | 64  | 75  | 68  | 63  |  | 72  | 66  | 62  |  | 69  |
| 4   | 82  | 70  | 61  | 55  | 80  | 69  | 61  | 54  | 66  | 59  | 53  |  | 64  | 58  | 53  |  | 62  |
| 5   | 76  | 63  | 54  | 47  | 73  | 61  | 53  | 47  | 59  | 52  | 46  |  | 57  | 51  | 46  |  | 55  |
| 6   | 70  | 56  | 47  | 41  | 68  | 55  | 47  | 41  | 54  | 46  | 40  |  | 52  | 45  | 40  |  | 50  |
| 7   | 65  | 51  | 42  | 36  | 63  | 50  | 42  | 36  | 49  | 41  | 36  |  | 47  | 40  | 35  |  | 46  |
| 8   | 60  | 46  | 38  | 32  | 59  | 46  | 38  | 32  | 44  | 37  | 32  |  | 43  | 36  | 31  |  | 42  |
| 9   | 56  | 43  | 34  | 29  | 55  | 42  | 34  | 29  | 41  | 34  | 29  |  | 40  | 33  | 28  |  | 39  |
| 10  | 53  | 39  | 31  | 26  | 51  | 39  | 31  | 26  | 38  | 31  | 26  |  | 37  | 30  | 26  |  | 36  |

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

|     | 0°   | 90°  | 180° |
|-----|------|------|------|
| 0°  | 5046 | 5046 | 5046 |
| 5°  | 5253 | 5048 | 4899 |
| 10° | 5483 | 5010 | 4785 |
| 15° | 5729 | 4930 | 4717 |
| 20° | 5980 | 4821 | 4697 |
| 25° | 6215 | 4681 | 4705 |
| 30° | 6417 | 4535 | 4735 |
| 35° | 6564 | 4373 | 4774 |
| 40° | 6630 | 4211 | 4845 |
| 45° | 6612 | 4034 | 4924 |
| 50° | 6494 | 3864 | 5025 |
| 55° | 6272 | 3686 | 5130 |
| 60° | 5966 | 3496 | 5208 |
| 65° | 5603 | 3283 | 5201 |
| 70° | 5214 | 3028 | 5046 |
| 75° | 4734 | 2659 | 4654 |
| 80° | 4065 | 2185 | 3925 |
| 85° | 3100 | 1494 | 2695 |

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 177.8  | 3.2       |
| 10°-20°   | 513.6  | 9.3       |
| 20°-30°   | 786.8  | 14.3      |
| 30°-40°   | 960.1  | 17.4      |
| 40°-50°   | 1004.1 | 18.2      |
| 50°-60°   | 908.8  | 16.5      |
| 60°-70°   | 688.3  | 12.5      |
| 70°-80°   | 383.6  | 7.0       |
| 80°-90°   | 92.5   | 1.7       |
| 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°    | 1478.1 | 26.8      |
| 0°-40°    | 2438.3 | 44.2      |
| 0°-60°    | 4351.2 | 78.9      |
| 0°-90°    | 5515.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5515.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1875 | 1875 | 1875 | 1875 | 1875 |      |
| 5°  | 1945 | 1912 | 1869 | 1823 | 1814 | 188  |
| 15° | 2057 | 1942 | 1770 | 1687 | 1693 | 583  |
| 25° | 2093 | 1887 | 1577 | 1521 | 1584 | 966  |
| 35° | 1998 | 1748 | 1331 | 1330 | 1453 | 1248 |
| 45° | 1737 | 1520 | 1060 | 1107 | 1294 | 1337 |
| 55° | 1337 | 1207 | 786  | 855  | 1094 | 1193 |
| 65° | 880  | 828  | 516  | 586  | 817  | 873  |
| 75° | 455  | 430  | 256  | 305  | 448  | 483  |
| 85° | 100  | 88   | 48   | 65   | 87   | 121  |
| 90° | 0    | 0    | 0    | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 10°    | 20°    | 22.5°  | 30°    | 40°    | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1875.0 | 1875.0 | 1875.0 | 1875.0 | 1875.0 | 1875.0 | 1875.0 | 1875.0 | 1875.0 | 1875.0 | 1875.0 |
| 2.5°  | 1916.4 | 1907.4 | 1900.0 | 1902.9 | 1904.6 | 1898.8 | 1893.9 | 1894.7 | 1889.8 | 1899.2 | 1877.1 |
| 5°    | 1944.7 | 1936.5 | 1927.9 | 1931.2 | 1927.9 | 1919.3 | 1912.3 | 1910.3 | 1897.2 | 1902.5 | 1880.0 |
| 7.5°  | 1976.3 | 1967.3 | 1954.6 | 1958.2 | 1951.3 | 1935.3 | 1926.3 | 1920.9 | 1900.9 | 1901.3 | 1876.3 |
| 10°   | 2006.6 | 1998.8 | 1981.6 | 1984.1 | 1971.4 | 1950.0 | 1935.7 | 1928.3 | 1900.0 | 1895.9 | 1870.1 |
| 12.5° | 2034.9 | 2024.2 | 2005.8 | 2007.0 | 1988.6 | 1960.3 | 1941.8 | 1931.2 | 1894.3 | 1882.0 | 1856.6 |
| 15°   | 2056.6 | 2046.4 | 2024.2 | 2023.8 | 2000.0 | 1963.2 | 1942.3 | 1927.5 | 1880.8 | 1861.5 | 1834.9 |
| 17.5° | 2075.0 | 2065.6 | 2038.2 | 2037.3 | 2008.7 | 1961.9 | 1936.9 | 1918.5 | 1861.1 | 1837.3 | 1807.8 |
| 20°   | 2088.2 | 2078.7 | 2048.0 | 2045.1 | 2010.7 | 1955.8 | 1925.9 | 1902.5 | 1835.3 | 1807.0 | 1774.2 |
| 22.5° | 2094.3 | 2084.9 | 2050.0 | 2045.9 | 2005.8 | 1943.5 | 1909.9 | 1882.4 | 1805.8 | 1768.9 | 1734.9 |
| 25°   | 2093.1 | 2084.1 | 2044.7 | 2040.6 | 1996.4 | 1925.0 | 1887.3 | 1855.8 | 1768.5 | 1725.0 | 1691.4 |
| 27.5° | 2082.8 | 2075.9 | 2034.5 | 2029.1 | 1979.1 | 1900.0 | 1859.9 | 1825.0 | 1727.1 | 1678.7 | 1642.3 |
| 30°   | 2065.2 | 2059.9 | 2016.0 | 2011.1 | 1957.8 | 1872.6 | 1827.9 | 1787.7 | 1682.4 | 1627.9 | 1591.0 |
| 32.5° | 2036.9 | 2032.0 | 1987.8 | 1983.2 | 1929.1 | 1837.3 | 1790.6 | 1749.2 | 1633.6 | 1573.4 | 1536.5 |
| 35°   | 1998.0 | 1995.1 | 1952.1 | 1947.2 | 1892.3 | 1797.2 | 1747.6 | 1702.1 | 1582.8 | 1514.8 | 1479.5 |
| 37.5° | 1946.8 | 1946.8 | 1905.4 | 1900.0 | 1846.4 | 1748.0 | 1699.2 | 1650.9 | 1525.4 | 1453.3 | 1418.5 |
| 40°   | 1887.3 | 1892.7 | 1850.5 | 1845.1 | 1793.1 | 1695.1 | 1641.8 | 1591.0 | 1463.6 | 1388.6 | 1354.5 |
| 42.5° | 1816.0 | 1820.9 | 1785.7 | 1780.8 | 1732.0 | 1634.1 | 1584.5 | 1529.1 | 1398.8 | 1322.6 | 1287.3 |
| 45°   | 1737.3 | 1743.9 | 1712.3 | 1708.6 | 1663.2 | 1567.2 | 1519.7 | 1463.6 | 1331.2 | 1253.7 | 1219.3 |
| 47.5° | 1649.6 | 1658.2 | 1630.8 | 1628.7 | 1586.5 | 1498.8 | 1449.2 | 1392.2 | 1260.3 | 1182.0 | 1149.6 |
| 50°   | 1551.3 | 1563.6 | 1541.0 | 1541.0 | 1503.3 | 1416.0 | 1373.0 | 1316.0 | 1186.5 | 1108.2 | 1076.3 |
| 52.5° | 1445.9 | 1461.5 | 1444.7 | 1445.1 | 1414.4 | 1336.1 | 1291.4 | 1235.7 | 1109.5 | 1032.4 | 1002.9 |
| 55°   | 1336.9 | 1352.1 | 1341.4 | 1343.1 | 1318.9 | 1247.6 | 1207.0 | 1151.7 | 1030.8 | 955.8  | 927.9  |
| 57.5° | 1223.0 | 1239.4 | 1232.4 | 1235.7 | 1218.9 | 1154.9 | 1112.7 | 1064.4 | 949.6  | 875.4  | 851.7  |
| 60°   | 1108.6 | 1124.2 | 1120.5 | 1125.0 | 1114.4 | 1059.0 | 1020.5 | 970.5  | 868.1  | 796.7  | 775.8  |
| 62.5° | 993.1  | 1007.4 | 1006.6 | 1011.5 | 1005.8 | 959.9  | 925.4  | 882.8  | 783.6  | 718.0  | 698.8  |
| 65°   | 879.9  | 892.2  | 891.4  | 896.7  | 895.5  | 858.6  | 827.5  | 788.5  | 699.2  | 638.9  | 622.1  |
| 67.5° | 770.1  | 780.3  | 777.5  | 783.6  | 785.3  | 755.8  | 728.7  | 693.9  | 618.9  | 560.3  | 545.9  |
| 70°   | 662.7  | 669.7  | 666.0  | 670.1  | 673.8  | 651.7  | 628.7  | 598.0  | 533.2  | 481.6  | 469.7  |
| 72.5° | 557.4  | 562.3  | 556.6  | 560.7  | 563.9  | 548.0  | 529.1  | 502.5  | 448.8  | 404.1  | 394.3  |
| 75°   | 455.3  | 462.3  | 450.4  | 454.5  | 457.0  | 441.0  | 429.9  | 408.2  | 361.9  | 327.5  | 320.9  |
| 77.5° | 356.6  | 360.7  | 354.1  | 352.5  | 354.1  | 342.6  | 334.0  | 317.2  | 282.4  | 254.1  | 250.0  |
| 80°   | 262.3  | 264.8  | 258.2  | 256.6  | 257.8  | 249.6  | 243.0  | 230.7  | 206.2  | 184.8  | 183.2  |
| 82.5° | 175.8  | 177.1  | 171.3  | 169.7  | 170.5  | 168.0  | 160.2  | 151.6  | 140.2  | 122.1  | 121.7  |
| 85°   | 100.4  | 100.4  | 96.3   | 94.7   | 95.5   | 91.4   | 88.5   | 84.0   | 79.5   | 67.2   | 68.0   |
| 87.5° | 36.9   | 36.9   | 34.8   | 34.4   | 38.5   | 34.0   | 32.8   | 30.7   | 32.0   | 25.4   | 27.0   |
| 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):**

|       | 80°    | 90°    | 100°   | 110°   | 112.5° | 120°   | 130°   | 135°   | 140°   | 150°   | 157.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1875.0 | 1875.0 | 1875.0 | 1875.0 | 1875.0 | 1875.0 | 1875.0 | 1875.0 | 1875.0 | 1875.0 | 1875.0 |
| 2.5°  | 1883.2 | 1879.1 | 1875.5 | 1862.7 | 1868.1 | 1855.0 | 1854.1 | 1849.2 | 1845.5 | 1838.6 | 1847.6 |
| 5°    | 1877.1 | 1868.9 | 1858.2 | 1843.1 | 1847.6 | 1832.0 | 1828.7 | 1823.0 | 1818.1 | 1809.1 | 1816.0 |
| 7.5°  | 1867.3 | 1853.7 | 1836.9 | 1817.7 | 1823.8 | 1804.6 | 1799.6 | 1793.5 | 1789.4 | 1778.7 | 1784.9 |
| 10°   | 1852.9 | 1833.6 | 1814.0 | 1790.6 | 1795.1 | 1774.2 | 1768.1 | 1761.5 | 1757.8 | 1748.4 | 1754.5 |
| 12.5° | 1830.8 | 1807.4 | 1780.8 | 1755.4 | 1760.3 | 1740.6 | 1732.4 | 1725.5 | 1724.2 | 1716.4 | 1723.8 |
| 15°   | 1802.1 | 1769.7 | 1742.3 | 1715.2 | 1720.9 | 1698.0 | 1694.3 | 1687.3 | 1689.4 | 1684.1 | 1693.1 |
| 17.5° | 1765.6 | 1728.3 | 1698.4 | 1669.3 | 1675.0 | 1655.8 | 1652.9 | 1649.6 | 1651.7 | 1650.9 | 1660.7 |
| 20°   | 1724.6 | 1683.6 | 1649.2 | 1620.5 | 1623.8 | 1608.6 | 1609.9 | 1609.1 | 1613.2 | 1617.7 | 1631.2 |
| 22.5° | 1678.3 | 1632.0 | 1595.9 | 1566.4 | 1571.3 | 1558.2 | 1564.0 | 1565.6 | 1572.6 | 1582.8 | 1600.0 |
| 25°   | 1626.3 | 1576.7 | 1539.0 | 1511.1 | 1515.6 | 1507.0 | 1516.8 | 1520.9 | 1532.0 | 1549.2 | 1566.8 |
| 27.5° | 1571.8 | 1519.3 | 1479.1 | 1452.5 | 1461.1 | 1452.5 | 1467.2 | 1475.4 | 1492.2 | 1511.1 | 1532.8 |
| 30°   | 1514.0 | 1459.5 | 1418.1 | 1394.3 | 1402.5 | 1394.7 | 1418.5 | 1429.5 | 1446.3 | 1472.2 | 1498.0 |
| 32.5° | 1453.3 | 1395.9 | 1355.4 | 1336.9 | 1342.7 | 1341.4 | 1368.1 | 1380.4 | 1402.9 | 1432.4 | 1459.9 |
| 35°   | 1391.0 | 1331.2 | 1290.2 | 1274.6 | 1281.6 | 1283.2 | 1315.2 | 1329.5 | 1354.1 | 1389.8 | 1419.3 |
| 37.5° | 1326.7 | 1265.6 | 1225.4 | 1212.7 | 1218.9 | 1225.0 | 1262.3 | 1276.7 | 1304.5 | 1343.5 | 1375.9 |
| 40°   | 1259.9 | 1198.8 | 1159.5 | 1149.2 | 1155.4 | 1161.9 | 1202.5 | 1222.2 | 1252.5 | 1294.7 | 1329.9 |
| 42.5° | 1192.2 | 1131.2 | 1093.1 | 1085.7 | 1091.8 | 1104.5 | 1147.6 | 1166.0 | 1198.0 | 1244.7 | 1283.6 |
| 45°   | 1123.4 | 1059.9 | 1026.7 | 1020.9 | 1027.5 | 1042.2 | 1084.5 | 1106.6 | 1140.6 | 1191.8 | 1233.6 |
| 47.5° | 1053.7 | 991.8  | 960.3  | 956.6  | 963.1  | 979.5  | 1026.3 | 1046.3 | 1082.4 | 1136.9 | 1182.0 |
| 50°   | 983.2  | 923.0  | 892.6  | 891.4  | 897.6  | 915.2  | 959.9  | 983.6  | 1020.9 | 1082.0 | 1128.3 |
| 52.5° | 911.9  | 854.1  | 826.7  | 826.7  | 832.4  | 850.4  | 895.5  | 920.1  | 958.6  | 1023.0 | 1074.2 |
| 55°   | 840.6  | 785.7  | 759.4  | 761.5  | 769.7  | 785.3  | 829.1  | 854.9  | 893.9  | 960.7  | 1014.8 |
| 57.5° | 769.3  | 717.2  | 693.5  | 696.3  | 704.1  | 719.7  | 762.7  | 791.8  | 827.1  | 896.3  | 951.7  |
| 60°   | 698.8  | 649.6  | 628.7  | 632.0  | 638.9  | 654.5  | 699.2  | 724.2  | 759.4  | 829.9  | 885.3  |
| 62.5° | 627.5  | 582.8  | 563.1  | 567.2  | 573.4  | 588.9  | 631.2  | 655.3  | 690.2  | 759.4  | 815.2  |
| 65°   | 557.0  | 515.6  | 498.8  | 502.9  | 508.6  | 523.0  | 562.7  | 586.1  | 619.3  | 686.9  | 740.2  |
| 67.5° | 487.3  | 449.6  | 435.7  | 439.8  | 444.3  | 457.8  | 490.6  | 516.0  | 547.1  | 611.5  | 661.9  |
| 70°   | 418.5  | 384.8  | 372.5  | 376.6  | 380.7  | 393.0  | 421.7  | 445.1  | 473.8  | 532.8  | 579.5  |
| 72.5° | 350.4  | 317.6  | 311.5  | 315.2  | 318.5  | 329.1  | 356.6  | 375.0  | 400.0  | 452.5  | 492.6  |
| 75°   | 284.0  | 255.7  | 251.6  | 255.3  | 258.2  | 266.4  | 289.4  | 305.3  | 326.2  | 371.7  | 404.5  |
| 77.5° | 220.1  | 196.3  | 194.7  | 197.5  | 200.4  | 206.2  | 224.2  | 241.0  | 257.4  | 291.0  | 320.1  |
| 80°   | 160.2  | 141.0  | 141.0  | 143.9  | 143.0  | 150.0  | 162.7  | 176.2  | 188.1  | 212.3  | 233.6  |
| 82.5° | 105.7  | 90.6   | 92.6   | 94.7   | 95.9   | 98.8   | 106.6  | 116.8  | 124.2  | 138.9  | 152.9  |
| 85°   | 58.6   | 48.4   | 50.4   | 52.1   | 51.2   | 54.5   | 58.6   | 64.8   | 68.4   | 75.4   | 82.8   |
| 87.5° | 21.7   | 18.0   | 18.4   | 19.7   | 20.5   | 22.1   | 22.1   | 25.8   | 26.2   | 27.0   | 28.7   |
| 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):**

|       | 160°   | 170°   | 180°   |
|-------|--------|--------|--------|
| 0°    | 1875.0 | 1875.0 | 1875.0 |
| 2.5°  | 1830.4 | 1840.2 | 1847.6 |
| 5°    | 1798.8 | 1807.0 | 1813.6 |
| 7.5°  | 1768.1 | 1775.5 | 1781.2 |
| 10°   | 1739.0 | 1747.2 | 1751.3 |
| 12.5° | 1709.1 | 1718.5 | 1721.8 |
| 15°   | 1679.5 | 1689.0 | 1693.1 |
| 17.5° | 1649.2 | 1661.5 | 1666.0 |
| 20°   | 1620.9 | 1636.5 | 1640.2 |
| 22.5° | 1592.3 | 1608.2 | 1612.7 |
| 25°   | 1561.1 | 1580.0 | 1584.5 |
| 27.5° | 1527.9 | 1550.4 | 1555.0 |
| 30°   | 1494.7 | 1519.3 | 1523.8 |
| 32.5° | 1459.1 | 1485.7 | 1489.8 |
| 35°   | 1421.8 | 1448.4 | 1453.3 |
| 37.5° | 1380.4 | 1409.5 | 1419.3 |
| 40°   | 1337.3 | 1368.9 | 1379.1 |
| 42.5° | 1292.2 | 1326.7 | 1337.3 |
| 45°   | 1243.9 | 1281.6 | 1293.9 |
| 47.5° | 1195.1 | 1237.7 | 1248.4 |
| 50°   | 1142.2 | 1187.7 | 1200.4 |
| 52.5° | 1086.9 | 1136.5 | 1149.2 |
| 55°   | 1029.5 | 1079.5 | 1093.5 |
| 57.5° | 967.2  | 1018.9 | 1033.6 |
| 60°   | 902.1  | 953.7  | 967.6  |
| 62.5° | 835.3  | 882.0  | 895.5  |
| 65°   | 760.7  | 804.5  | 816.8  |
| 67.5° | 681.6  | 721.7  | 732.0  |
| 70°   | 597.6  | 632.4  | 641.4  |
| 72.5° | 509.8  | 534.0  | 545.9  |
| 75°   | 419.3  | 438.5  | 447.6  |
| 77.5° | 328.3  | 341.8  | 349.2  |
| 80°   | 239.3  | 247.1  | 253.3  |
| 82.5° | 156.6  | 159.8  | 164.3  |
| 85°   | 84.4   | 84.4   | 87.3   |
| 87.5° | 28.7   | 27.5   | 28.7   |
| 90°   | 0.0    | 0.0    | 0.0    |

(END OF REPORT)