

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: P834187

Luminaire Tested: **ORLG-12-4-INS-ASY2-LD4-3LO-20-120-EDD**

Issue Date: 5/16/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P834187  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 5/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: ORLG-12-4-INS-ASY2-LD4-3LO-20-120-EDD  
Description: 1FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2  
Light Source: 2000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

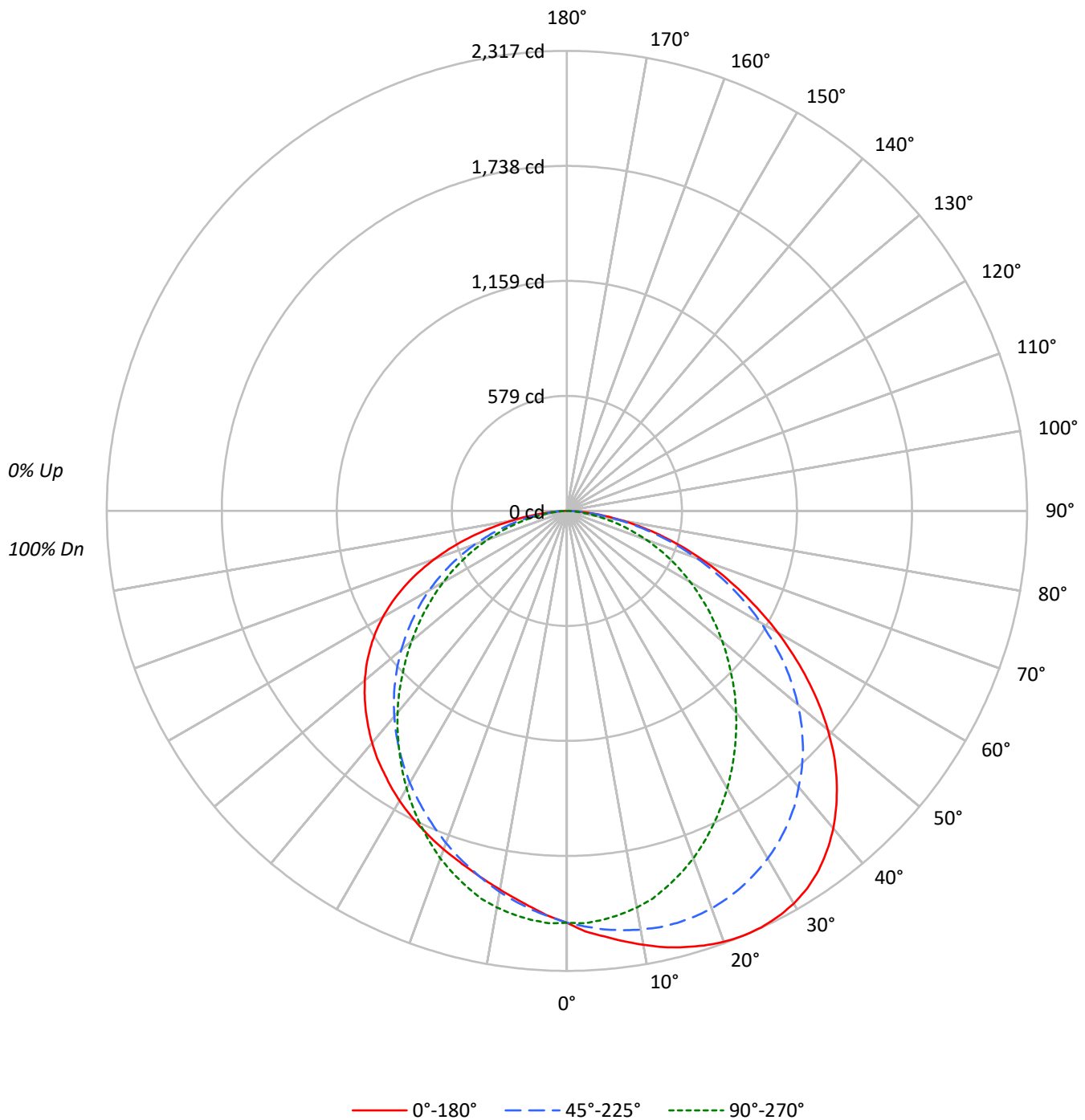
Lumens per Lamp: N/A  
Luminaire Lumens: 6100.9 lumens  
Efficiency: N/A  
Efficacy: 86.9 lumens/watt  
Spacing Criteria (0/90/45): 1.41 / 1.17 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 70.2  
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: P834187

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### Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P834187

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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  | 30  | 10  | 50  | 30  | 10  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 102 | 100 |
| 1   | 109 | 104 | 100 | 96  | 106 | 102 | 98  | 94  | 97  | 94  | 91  | 94  | 91  | 88  | 90  | 88  | 86  | 86  | 86  | 84  |
| 2   | 99  | 90  | 84  | 78  | 96  | 89  | 82  | 77  | 85  | 80  | 75  | 82  | 77  | 73  | 79  | 75  | 72  | 72  | 72  | 70  |
| 3   | 90  | 79  | 71  | 65  | 87  | 78  | 70  | 64  | 75  | 68  | 63  | 72  | 66  | 62  | 69  | 65  | 61  | 61  | 61  | 58  |
| 4   | 82  | 70  | 61  | 55  | 80  | 69  | 61  | 54  | 66  | 59  | 53  | 64  | 58  | 53  | 62  | 56  | 52  | 52  | 52  | 50  |
| 5   | 76  | 63  | 54  | 47  | 73  | 61  | 53  | 47  | 59  | 52  | 46  | 57  | 51  | 46  | 55  | 50  | 45  | 45  | 45  | 43  |
| 6   | 70  | 56  | 47  | 41  | 68  | 55  | 47  | 41  | 54  | 46  | 40  | 52  | 45  | 40  | 50  | 44  | 40  | 40  | 40  | 37  |
| 7   | 65  | 51  | 42  | 36  | 63  | 50  | 42  | 36  | 49  | 41  | 36  | 47  | 40  | 35  | 46  | 40  | 35  | 35  | 35  | 33  |
| 8   | 60  | 46  | 38  | 32  | 59  | 46  | 38  | 32  | 44  | 37  | 32  | 43  | 36  | 31  | 42  | 36  | 31  | 31  | 31  | 29  |
| 9   | 56  | 43  | 34  | 29  | 55  | 42  | 34  | 29  | 41  | 34  | 29  | 40  | 33  | 28  | 39  | 33  | 28  | 28  | 28  | 26  |
| 10  | 53  | 39  | 31  | 26  | 51  | 39  | 31  | 26  | 38  | 31  | 26  | 37  | 30  | 26  | 36  | 30  | 26  | 26  | 26  | 24  |

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

|     | 0°   | 90°  | 180° |
|-----|------|------|------|
| 0°  | 5581 | 5581 | 5581 |
| 5°  | 5811 | 5584 | 5419 |
| 10° | 6065 | 5542 | 5293 |
| 15° | 6338 | 5453 | 5217 |
| 20° | 6615 | 5333 | 5196 |
| 25° | 6874 | 5178 | 5204 |
| 30° | 7098 | 5016 | 5237 |
| 35° | 7260 | 4837 | 5281 |
| 40° | 7333 | 4658 | 5359 |
| 45° | 7313 | 4461 | 5447 |
| 50° | 7183 | 4274 | 5559 |
| 55° | 6938 | 4077 | 5674 |
| 60° | 6600 | 3867 | 5760 |
| 65° | 6197 | 3631 | 5753 |
| 70° | 5768 | 3349 | 5582 |
| 75° | 5237 | 2941 | 5148 |
| 80° | 4496 | 2417 | 4342 |
| 85° | 3430 | 1652 | 2983 |

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P834187

CATALOG NUMBER: ORLG-12-4-INS-ASY2-LD4-3LO-20-120-EDD

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 196.7  | 3.2       |
| 10°-20°   | 568.1  | 9.3       |
| 20°-30°   | 870.3  | 14.3      |
| 30°-40°   | 1062.0 | 17.4      |
| 40°-50°   | 1110.7 | 18.2      |
| 50°-60°   | 1005.2 | 16.5      |
| 60°-70°   | 761.3  | 12.5      |
| 70°-80°   | 424.3  | 7.0       |
| 80°-90°   | 102.3  | 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°    | 1635.0 | 26.8      |
| 0°-40°    | 2697.1 | 44.2      |
| 0°-60°    | 4813.0 | 78.9      |
| 0°-90°    | 6100.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6100.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 2074 | 2074 | 2074 | 2074 | 2074 |      |
| 5°  | 2151 | 2115 | 2067 | 2016 | 2006 | 207  |
| 15° | 2275 | 2148 | 1958 | 1866 | 1873 | 645  |
| 25° | 2315 | 2088 | 1744 | 1682 | 1753 | 1068 |
| 35° | 2210 | 1933 | 1472 | 1471 | 1608 | 1380 |
| 45° | 1922 | 1681 | 1172 | 1224 | 1431 | 1479 |
| 55° | 1479 | 1335 | 869  | 946  | 1210 | 1320 |
| 65° | 973  | 915  | 570  | 648  | 904  | 966  |
| 75° | 504  | 476  | 283  | 338  | 495  | 534  |
| 85° | 111  | 98   | 54   | 72   | 97   | 134  |
| 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°    | 2074.0 | 2074.0 | 2074.0 | 2074.0 | 2074.0 | 2074.0 | 2074.0 | 2074.0 | 2074.0 | 2074.0 | 2074.0 |
| 2.5°  | 2119.8 | 2109.9 | 2101.7 | 2104.9 | 2106.7 | 2100.3 | 2094.9 | 2095.8 | 2090.4 | 2100.8 | 2076.3 |
| 5°    | 2151.1 | 2142.1 | 2132.5 | 2136.2 | 2132.5 | 2123.0 | 2115.3 | 2113.0 | 2098.5 | 2104.4 | 2079.5 |
| 7.5°  | 2186.0 | 2176.1 | 2162.0 | 2166.1 | 2158.4 | 2140.7 | 2130.7 | 2124.8 | 2102.6 | 2103.1 | 2075.4 |
| 10°   | 2219.6 | 2211.0 | 2191.9 | 2194.6 | 2180.6 | 2157.0 | 2141.1 | 2133.0 | 2101.7 | 2097.2 | 2068.6 |
| 12.5° | 2250.9 | 2239.1 | 2218.7 | 2220.0 | 2199.6 | 2168.3 | 2147.9 | 2136.2 | 2095.4 | 2081.8 | 2053.6 |
| 15°   | 2274.9 | 2263.5 | 2239.1 | 2238.6 | 2212.3 | 2171.5 | 2148.4 | 2132.1 | 2080.4 | 2059.1 | 2029.6 |
| 17.5° | 2295.3 | 2284.9 | 2254.5 | 2253.6 | 2221.8 | 2170.2 | 2142.5 | 2122.1 | 2058.6 | 2032.3 | 1999.7 |
| 20°   | 2309.8 | 2299.4 | 2265.4 | 2262.2 | 2224.1 | 2163.4 | 2130.3 | 2104.4 | 2030.1 | 1998.8 | 1962.5 |
| 22.5° | 2316.6 | 2306.2 | 2267.6 | 2263.1 | 2218.7 | 2149.8 | 2112.6 | 2082.2 | 1997.4 | 1956.6 | 1919.0 |
| 25°   | 2315.2 | 2305.3 | 2261.7 | 2257.2 | 2208.2 | 2129.4 | 2087.6 | 2052.7 | 1956.2 | 1908.1 | 1871.0 |
| 27.5° | 2303.9 | 2296.2 | 2250.4 | 2244.5 | 2189.2 | 2101.7 | 2057.3 | 2018.7 | 1910.4 | 1856.9 | 1816.6 |
| 30°   | 2284.4 | 2278.5 | 2230.0 | 2224.6 | 2165.6 | 2071.3 | 2021.9 | 1977.5 | 1861.0 | 1800.7 | 1759.9 |
| 32.5° | 2253.1 | 2247.7 | 2198.7 | 2193.7 | 2133.9 | 2032.3 | 1980.7 | 1934.9 | 1807.0 | 1740.4 | 1699.6 |
| 35°   | 2210.1 | 2206.9 | 2159.3 | 2153.8 | 2093.1 | 1987.9 | 1933.1 | 1882.7 | 1750.8 | 1675.6 | 1636.6 |
| 37.5° | 2153.4 | 2153.4 | 2107.6 | 2101.7 | 2042.3 | 1933.5 | 1879.6 | 1826.1 | 1687.3 | 1607.6 | 1569.0 |
| 40°   | 2087.6 | 2093.5 | 2046.8 | 2041.0 | 1983.4 | 1875.0 | 1816.1 | 1759.9 | 1618.9 | 1535.9 | 1498.3 |
| 42.5° | 2008.8 | 2014.2 | 1975.2 | 1969.8 | 1915.8 | 1807.5 | 1752.6 | 1691.4 | 1547.3 | 1462.9 | 1424.0 |
| 45°   | 1921.7 | 1929.0 | 1894.1 | 1890.0 | 1839.7 | 1733.6 | 1681.0 | 1618.9 | 1472.5 | 1386.8 | 1348.7 |
| 47.5° | 1824.7 | 1834.2 | 1803.9 | 1801.6 | 1754.9 | 1657.9 | 1603.0 | 1540.0 | 1394.0 | 1307.4 | 1271.6 |
| 50°   | 1715.9 | 1729.5 | 1704.6 | 1704.6 | 1662.9 | 1566.3 | 1518.7 | 1455.7 | 1312.4 | 1225.8 | 1190.5 |
| 52.5° | 1599.4 | 1616.6 | 1598.0 | 1598.5 | 1564.5 | 1477.9 | 1428.5 | 1366.8 | 1227.2 | 1142.0 | 1109.3 |
| 55°   | 1478.8 | 1495.6 | 1483.8 | 1485.6 | 1458.9 | 1380.0 | 1335.1 | 1273.9 | 1140.2 | 1057.2 | 1026.4 |
| 57.5° | 1352.8 | 1370.9 | 1363.2 | 1366.8 | 1348.2 | 1277.5 | 1230.8 | 1177.3 | 1050.4 | 968.3  | 942.0  |
| 60°   | 1226.3 | 1243.5 | 1239.4 | 1244.4 | 1232.6 | 1171.4 | 1128.8 | 1073.5 | 960.2  | 881.3  | 858.2  |
| 62.5° | 1098.5 | 1114.3 | 1113.4 | 1118.9 | 1112.5 | 1061.7 | 1023.7 | 976.5  | 866.8  | 794.3  | 773.0  |
| 65°   | 973.3  | 986.9  | 986.0  | 991.9  | 990.6  | 949.8  | 915.3  | 872.2  | 773.4  | 706.8  | 688.2  |
| 67.5° | 851.8  | 863.2  | 860.0  | 866.8  | 868.6  | 836.0  | 806.0  | 767.5  | 684.5  | 619.7  | 603.9  |
| 70°   | 733.1  | 740.8  | 736.7  | 741.2  | 745.3  | 720.8  | 695.4  | 661.4  | 589.8  | 532.7  | 519.5  |
| 72.5° | 616.5  | 622.0  | 615.6  | 620.2  | 623.8  | 606.1  | 585.3  | 555.8  | 496.4  | 447.0  | 436.1  |
| 75°   | 503.7  | 511.4  | 498.2  | 502.8  | 505.5  | 487.8  | 475.6  | 451.5  | 400.3  | 362.2  | 355.0  |
| 77.5° | 394.4  | 398.9  | 391.7  | 389.9  | 391.7  | 379.0  | 369.5  | 350.9  | 312.4  | 281.1  | 276.5  |
| 80°   | 290.1  | 292.9  | 285.6  | 283.8  | 285.2  | 276.1  | 268.8  | 255.2  | 228.0  | 204.5  | 202.6  |
| 82.5° | 194.5  | 195.8  | 189.5  | 187.7  | 188.6  | 185.9  | 177.3  | 167.7  | 155.0  | 135.1  | 134.6  |
| 85°   | 111.1  | 111.1  | 106.5  | 104.7  | 105.6  | 101.1  | 97.9   | 92.9   | 87.9   | 74.3   | 75.3   |
| 87.5° | 40.8   | 40.8   | 38.5   | 38.1   | 42.6   | 37.6   | 36.3   | 34.0   | 35.4   | 28.1   | 29.9   |
| 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°    | 2074.0 | 2074.0 | 2074.0 | 2074.0 | 2074.0 | 2074.0 | 2074.0 | 2074.0 | 2074.0 | 2074.0 | 2074.0 |
| 2.5°  | 2083.1 | 2078.6 | 2074.5 | 2060.4 | 2066.3 | 2051.8 | 2050.9 | 2045.5 | 2041.4 | 2033.7 | 2043.7 |
| 5°    | 2076.3 | 2067.2 | 2055.5 | 2038.7 | 2043.7 | 2026.4 | 2022.8 | 2016.5 | 2011.0 | 2001.1 | 2008.8 |
| 7.5°  | 2065.4 | 2050.5 | 2031.9 | 2010.6 | 2017.4 | 1996.1 | 1990.6 | 1983.8 | 1979.3 | 1967.5 | 1974.3 |
| 10°   | 2049.6 | 2028.3 | 2006.5 | 1980.7 | 1985.6 | 1962.5 | 1955.7 | 1948.5 | 1944.4 | 1934.0 | 1940.8 |
| 12.5° | 2025.1 | 1999.2 | 1969.8 | 1941.7 | 1947.1 | 1925.4 | 1916.3 | 1908.6 | 1907.2 | 1898.6 | 1906.8 |
| 15°   | 1993.4 | 1957.5 | 1927.2 | 1897.2 | 1903.6 | 1878.2 | 1874.1 | 1866.4 | 1868.7 | 1862.8 | 1872.8 |
| 17.5° | 1953.0 | 1911.8 | 1878.7 | 1846.5 | 1852.8 | 1831.5 | 1828.3 | 1824.7 | 1827.0 | 1826.1 | 1837.0 |
| 20°   | 1907.7 | 1862.3 | 1824.3 | 1792.5 | 1796.1 | 1779.4 | 1780.7 | 1779.8 | 1784.4 | 1789.3 | 1804.3 |
| 22.5° | 1856.4 | 1805.2 | 1765.3 | 1732.7 | 1738.1 | 1723.6 | 1730.0 | 1731.8 | 1739.5 | 1750.8 | 1769.9 |
| 25°   | 1798.9 | 1744.0 | 1702.3 | 1671.5 | 1676.5 | 1666.9 | 1677.8 | 1682.4 | 1694.6 | 1713.6 | 1733.1 |
| 27.5° | 1738.6 | 1680.5 | 1636.1 | 1606.7 | 1616.2 | 1606.7 | 1623.0 | 1632.0 | 1650.6 | 1671.5 | 1695.5 |
| 30°   | 1674.7 | 1614.4 | 1568.6 | 1542.3 | 1551.3 | 1542.7 | 1569.0 | 1581.3 | 1599.9 | 1628.4 | 1657.0 |
| 32.5° | 1607.6 | 1544.1 | 1499.2 | 1478.8 | 1485.2 | 1483.8 | 1513.3 | 1526.9 | 1551.8 | 1584.4 | 1614.8 |
| 35°   | 1538.7 | 1472.5 | 1427.1 | 1409.9 | 1417.6 | 1419.4 | 1454.8 | 1470.6 | 1497.8 | 1537.3 | 1569.9 |
| 37.5° | 1467.5 | 1399.9 | 1355.5 | 1341.4 | 1348.2 | 1355.0 | 1396.3 | 1412.2 | 1443.0 | 1486.1 | 1521.9 |
| 40°   | 1393.6 | 1326.0 | 1282.5 | 1271.2 | 1278.0 | 1285.2 | 1330.1 | 1351.9 | 1385.4 | 1432.1 | 1471.1 |
| 42.5° | 1318.8 | 1251.2 | 1209.1 | 1200.9 | 1207.7 | 1221.8 | 1269.4 | 1289.8 | 1325.1 | 1376.8 | 1419.9 |
| 45°   | 1242.6 | 1172.3 | 1135.6 | 1129.3 | 1136.5 | 1152.9 | 1199.5 | 1224.0 | 1261.7 | 1318.3 | 1364.6 |
| 47.5° | 1165.5 | 1097.1 | 1062.2 | 1058.1 | 1065.4 | 1083.5 | 1135.2 | 1157.4 | 1197.3 | 1257.6 | 1307.4 |
| 50°   | 1087.6 | 1020.9 | 987.4  | 986.0  | 992.8  | 1012.3 | 1061.7 | 1088.0 | 1129.3 | 1196.8 | 1248.1 |
| 52.5° | 1008.7 | 944.8  | 914.4  | 914.4  | 920.7  | 940.7  | 990.6  | 1017.8 | 1060.4 | 1131.5 | 1188.2 |
| 55°   | 929.8  | 869.1  | 840.0  | 842.3  | 851.4  | 868.6  | 917.1  | 945.7  | 988.7  | 1062.6 | 1122.5 |
| 57.5° | 850.9  | 793.4  | 767.1  | 770.2  | 778.8  | 796.1  | 843.7  | 875.9  | 914.8  | 991.5  | 1052.7 |
| 60°   | 773.0  | 718.6  | 695.4  | 699.1  | 706.8  | 724.0  | 773.4  | 801.1  | 840.0  | 918.0  | 979.2  |
| 62.5° | 694.1  | 644.7  | 622.9  | 627.4  | 634.2  | 651.5  | 698.2  | 724.9  | 763.4  | 840.0  | 901.7  |
| 65°   | 616.1  | 570.3  | 551.7  | 556.3  | 562.6  | 578.5  | 622.4  | 648.3  | 685.0  | 759.8  | 818.7  |
| 67.5° | 539.0  | 497.3  | 481.9  | 486.4  | 491.4  | 506.4  | 542.7  | 570.8  | 605.2  | 676.4  | 732.2  |
| 70°   | 462.9  | 425.7  | 412.1  | 416.6  | 421.2  | 434.8  | 466.5  | 492.3  | 524.1  | 589.3  | 641.0  |
| 72.5° | 387.6  | 351.3  | 344.5  | 348.6  | 352.2  | 364.0  | 394.4  | 414.8  | 442.5  | 500.5  | 544.9  |
| 75°   | 314.2  | 282.9  | 278.4  | 282.4  | 285.6  | 294.7  | 320.1  | 337.7  | 360.9  | 411.2  | 447.5  |
| 77.5° | 243.4  | 217.2  | 215.3  | 218.5  | 221.7  | 228.0  | 248.0  | 266.6  | 284.7  | 321.9  | 354.1  |
| 80°   | 177.3  | 156.0  | 156.0  | 159.1  | 158.2  | 165.9  | 180.0  | 194.9  | 208.1  | 234.8  | 258.4  |
| 82.5° | 117.0  | 100.2  | 102.5  | 104.7  | 106.1  | 109.3  | 117.9  | 129.2  | 137.4  | 153.7  | 169.1  |
| 85°   | 64.8   | 53.5   | 55.8   | 57.6   | 56.7   | 60.3   | 64.8   | 71.6   | 75.7   | 83.4   | 91.6   |
| 87.5° | 24.0   | 19.9   | 20.4   | 21.8   | 22.7   | 24.5   | 24.5   | 28.6   | 29.0   | 29.9   | 31.7   |
| 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°    | 2074.0 | 2074.0 | 2074.0 |
| 2.5°  | 2024.6 | 2035.5 | 2043.7 |
| 5°    | 1989.7 | 1998.8 | 2006.0 |
| 7.5°  | 1955.7 | 1963.9 | 1970.2 |
| 10°   | 1923.5 | 1932.6 | 1937.1 |
| 12.5° | 1890.4 | 1900.9 | 1904.5 |
| 15°   | 1857.8 | 1868.2 | 1872.8 |
| 17.5° | 1824.3 | 1837.9 | 1842.8 |
| 20°   | 1793.0 | 1810.2 | 1814.3 |
| 22.5° | 1761.2 | 1778.9 | 1783.9 |
| 25°   | 1726.8 | 1747.6 | 1752.6 |
| 27.5° | 1690.1 | 1715.0 | 1720.0 |
| 30°   | 1653.3 | 1680.5 | 1685.5 |
| 32.5° | 1613.9 | 1643.4 | 1647.9 |
| 35°   | 1572.7 | 1602.1 | 1607.6 |
| 37.5° | 1526.9 | 1559.1 | 1569.9 |
| 40°   | 1479.3 | 1514.2 | 1525.5 |
| 42.5° | 1429.4 | 1467.5 | 1479.3 |
| 45°   | 1375.9 | 1417.6 | 1431.2 |
| 47.5° | 1322.0 | 1369.1 | 1380.9 |
| 50°   | 1263.5 | 1313.8 | 1327.8 |
| 52.5° | 1202.3 | 1257.1 | 1271.2 |
| 55°   | 1138.8 | 1194.1 | 1209.5 |
| 57.5° | 1069.9 | 1127.0 | 1143.3 |
| 60°   | 997.8  | 1054.9 | 1070.3 |
| 62.5° | 923.9  | 975.6  | 990.6  |
| 65°   | 841.4  | 889.9  | 903.5  |
| 67.5° | 753.9  | 798.3  | 809.7  |
| 70°   | 661.0  | 699.5  | 709.5  |
| 72.5° | 564.0  | 590.7  | 603.9  |
| 75°   | 463.8  | 485.1  | 495.1  |
| 77.5° | 363.1  | 378.1  | 386.2  |
| 80°   | 264.8  | 273.4  | 280.2  |
| 82.5° | 173.2  | 176.8  | 181.8  |
| 85°   | 93.4   | 93.4   | 96.6   |
| 87.5° | 31.7   | 30.4   | 31.7   |
| 90°   | 0.0    | 0.0    | 0.0    |

(END OF REPORT)