

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: STREETWORKS

Report Number: P836543

Luminaire Tested: **ARCH3-40-730-U-T2U**

Issue Date: 5/16/2024

### Test Information

Test Method: LM-79-08  
Report Number: P836543  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH3-40-730-U-T2U  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 345mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

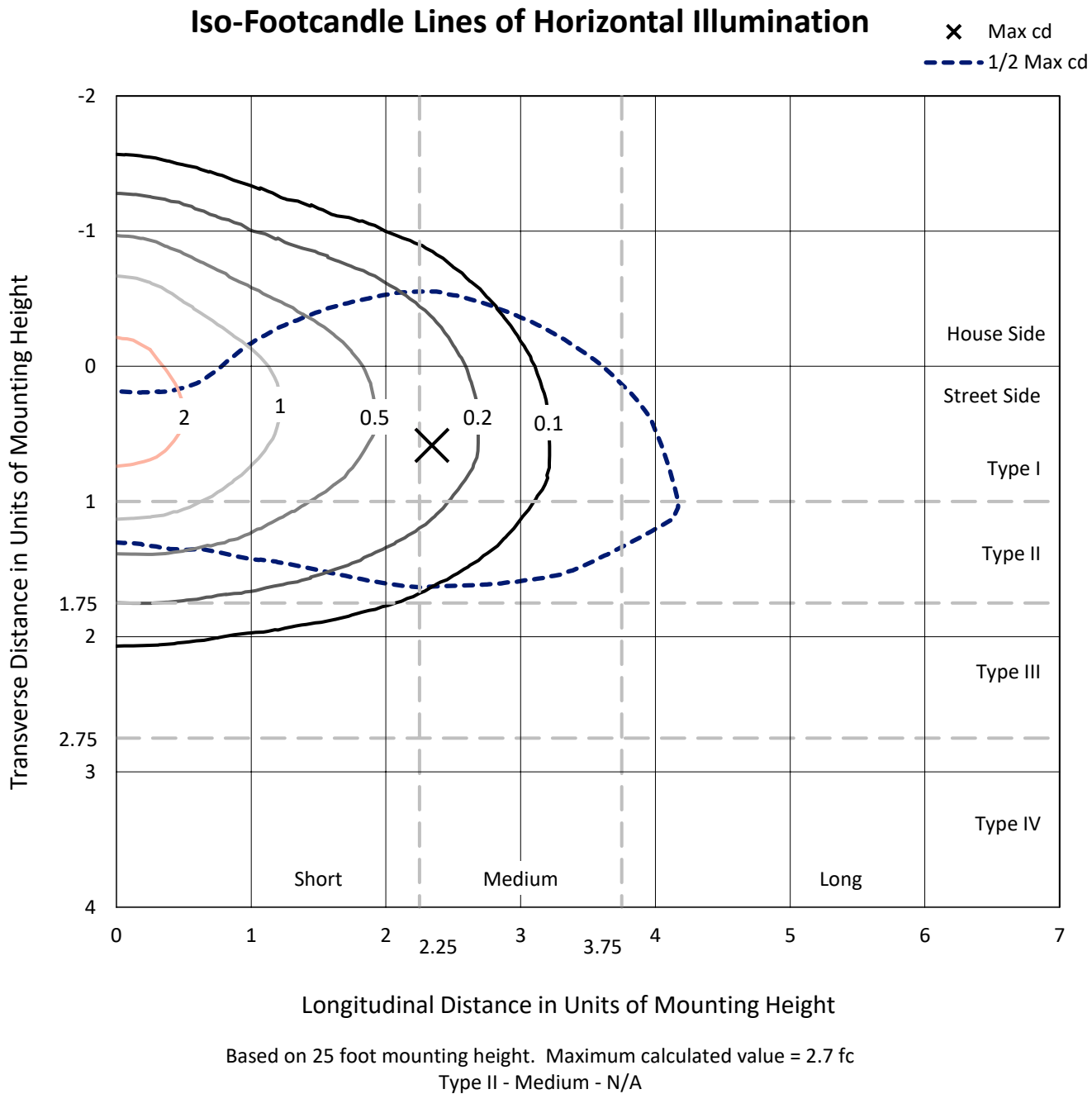
### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 7316 lumens  
Efficiency: N/A  
Efficacy: 167.8 lumens/watt  
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2

Input Watts (W): 43.6  
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: 24 FT

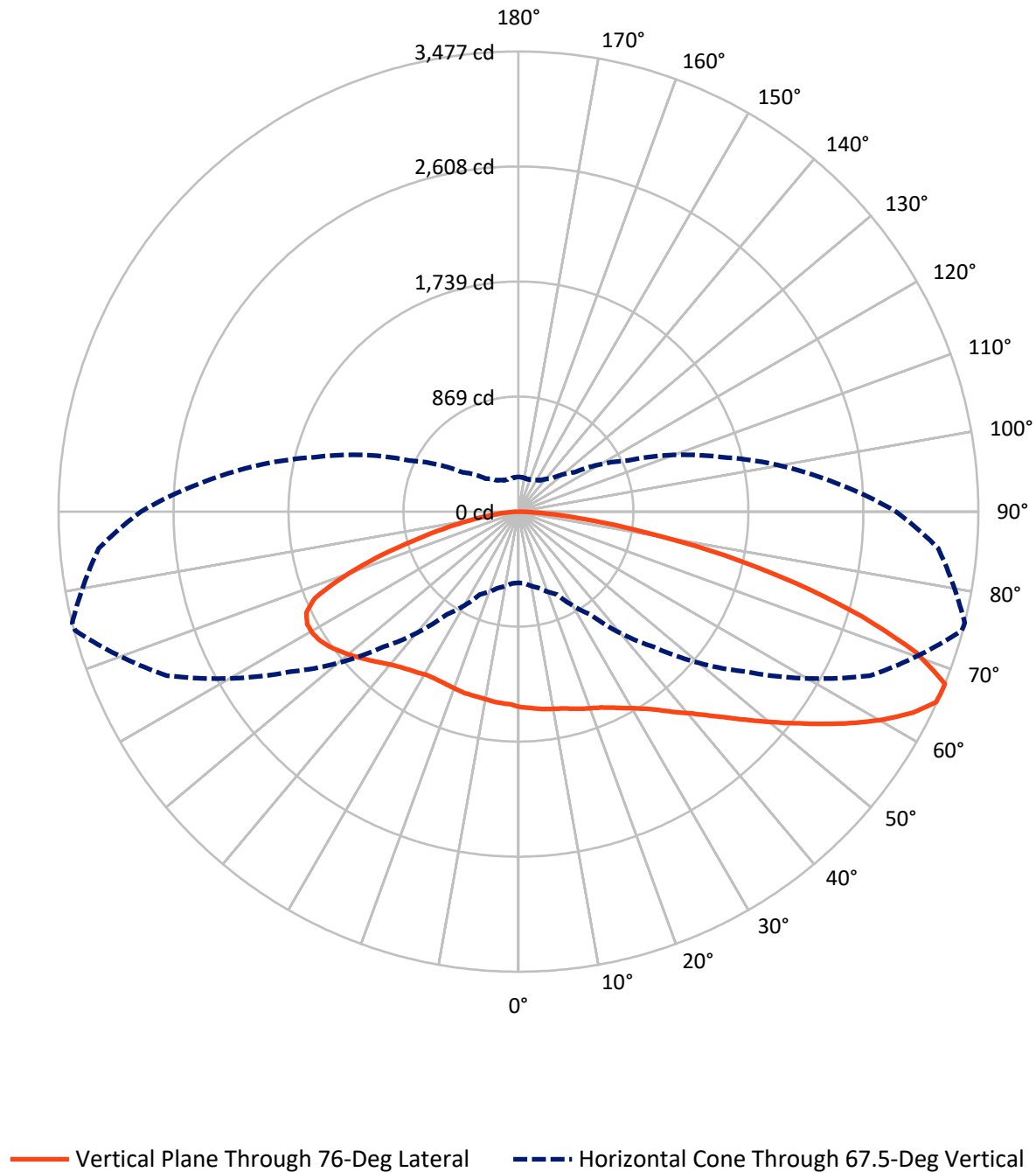


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## Luminous Intensity Polar Plot



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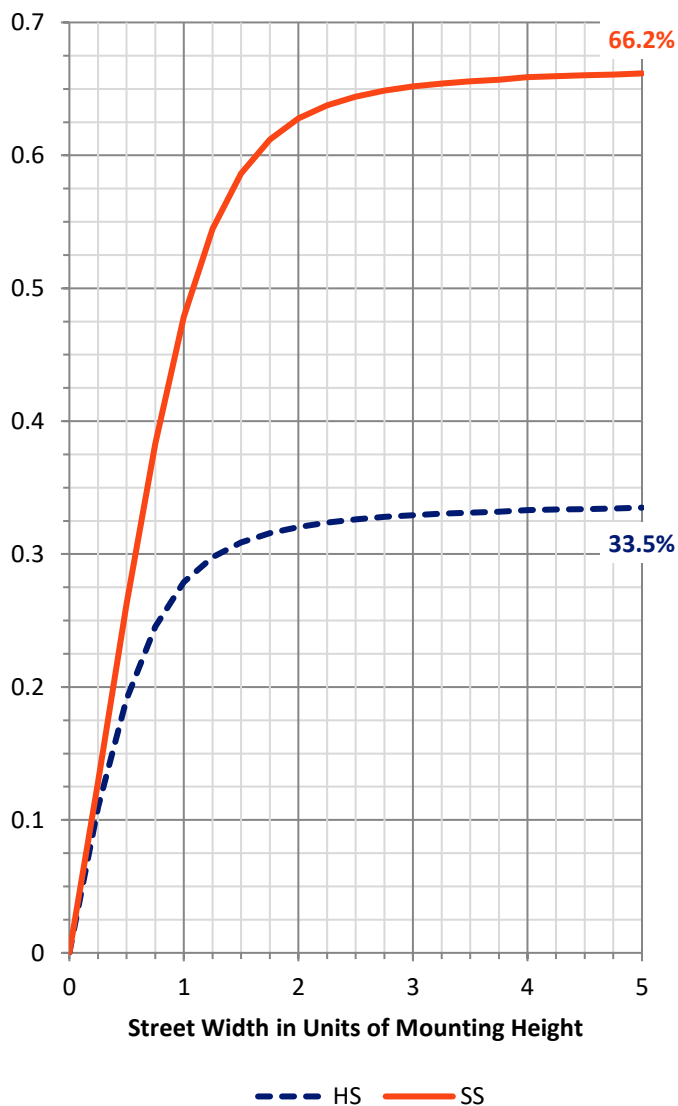
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2472.1   | 0.0    | 2472.1 |
|                    | % Fixture | 33.8     | 0.0    | 33.8   |
| <b>Street Side</b> | Lumens    | 4843.9   | 0.0    | 4843.9 |
|                    | % Fixture | 66.2     | 0.0    | 66.2   |
| <b>Total</b>       | Lumens    | 7316.0   | 0.0    | 7316.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 142.5  | 1.9       |
| 10°-20°   | 435.7  | 6.0       |
| 20°-30°   | 740.2  | 10.1      |
| 30°-40°   | 1053.2 | 14.4      |
| 40°-50°   | 1330.1 | 18.2      |
| 50°-60°   | 1440.1 | 19.7      |
| 60°-70°   | 1339.5 | 18.3      |
| 70°-80°   | 719.4  | 9.8       |
| 80°-90°   | 115.3  | 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°-90°    | 7316.0 | 100.0     |
| 0°-180°   | 7316.0 | 100.0     |

**Coefficient of Utilization**



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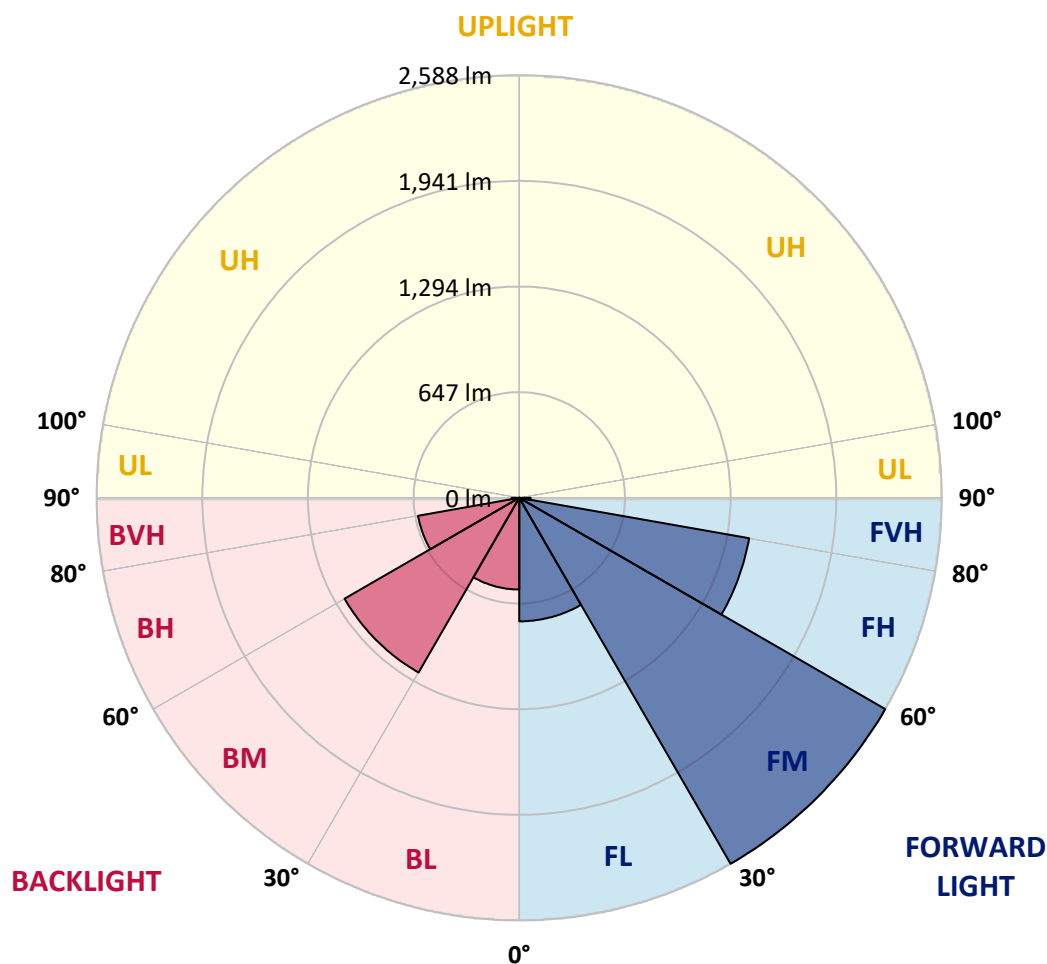
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 756.6  | 10.3      |                         |      |         |
| FM   | (30°-60°)   | 2588.1 | 35.4      |                         |      |         |
| FH   | (60°-80°)   | 1429.5 | 19.5      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 69.7   | 1.0       |                         |      | G1/100  |
| BL   | (0°-30°)    | 561.8  | 7.7       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1235.3 | 16.9      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 629.4  | 8.6       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 45.5   | 0.6       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 76°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1477.8 | 1477.8 | 1477.8 | 1477.8 | 1477.8 | 1477.8 | 1477.8 | 1477.8 | 1477.8 | 1477.8 | 1477.8 |
| 2.5°  | 1522.6 | 1519.9 | 1509.1 | 1510.4 | 1510.4 | 1509.1 | 1492.8 | 1486.0 | 1486.0 | 1484.6 | 1469.7 |
| 5°    | 1577.0 | 1572.9 | 1560.7 | 1558.0 | 1552.5 | 1545.7 | 1519.9 | 1505.0 | 1498.2 | 1496.8 | 1476.5 |
| 7.5°  | 1640.8 | 1635.4 | 1620.4 | 1612.3 | 1598.7 | 1581.0 | 1548.4 | 1525.4 | 1509.1 | 1507.7 | 1479.2 |
| 10°   | 1704.6 | 1699.2 | 1681.6 | 1666.6 | 1647.6 | 1619.1 | 1577.0 | 1543.0 | 1517.2 | 1514.5 | 1480.5 |
| 12.5° | 1780.7 | 1775.3 | 1753.5 | 1734.5 | 1706.0 | 1668.0 | 1612.3 | 1566.1 | 1530.8 | 1526.7 | 1484.6 |
| 15°   | 1860.9 | 1852.7 | 1831.0 | 1809.2 | 1773.9 | 1725.0 | 1658.5 | 1597.3 | 1552.5 | 1545.7 | 1496.8 |
| 17.5° | 1927.4 | 1916.5 | 1898.9 | 1877.2 | 1837.8 | 1780.7 | 1704.6 | 1628.6 | 1572.9 | 1567.5 | 1509.1 |
| 20°   | 1984.5 | 1976.3 | 1957.3 | 1936.9 | 1894.8 | 1832.3 | 1748.1 | 1659.8 | 1591.9 | 1585.1 | 1518.6 |
| 22.5° | 2038.8 | 2027.9 | 2017.1 | 2002.1 | 1955.9 | 1886.7 | 1798.4 | 1697.9 | 1616.4 | 1608.2 | 1530.8 |
| 25°   | 2101.3 | 2089.0 | 2085.0 | 2076.8 | 2022.5 | 1951.9 | 1859.5 | 1745.4 | 1650.3 | 1640.8 | 1552.5 |
| 27.5° | 2178.7 | 2165.1 | 2157.0 | 2157.0 | 2091.8 | 2018.4 | 1924.7 | 1801.1 | 1689.7 | 1681.6 | 1579.7 |
| 30°   | 2260.2 | 2243.9 | 2231.7 | 2231.7 | 2158.3 | 2085.0 | 1988.5 | 1856.8 | 1734.5 | 1725.0 | 1615.0 |
| 32.5° | 2332.2 | 2315.9 | 2302.3 | 2300.9 | 2224.9 | 2151.5 | 2055.1 | 1917.9 | 1788.9 | 1776.6 | 1658.5 |
| 35°   | 2387.9 | 2372.9 | 2360.7 | 2363.4 | 2291.4 | 2219.4 | 2129.8 | 1999.4 | 1856.8 | 1843.2 | 1715.5 |
| 37.5° | 2421.8 | 2416.4 | 2409.6 | 2419.1 | 2352.6 | 2284.6 | 2207.2 | 2078.2 | 1934.2 | 1922.0 | 1786.1 |
| 40°   | 2439.5 | 2435.4 | 2462.6 | 2474.8 | 2404.2 | 2343.0 | 2284.6 | 2159.7 | 2018.4 | 2004.8 | 1867.6 |
| 42.5° | 2465.3 | 2499.2 | 2510.1 | 2507.4 | 2442.2 | 2387.9 | 2355.3 | 2248.0 | 2117.6 | 2105.3 | 1965.4 |
| 45°   | 2372.9 | 2364.8 | 2424.5 | 2457.1 | 2444.9 | 2416.4 | 2421.8 | 2353.9 | 2233.0 | 2220.8 | 2078.2 |
| 47.5° | 2249.3 | 2238.5 | 2272.4 | 2352.6 | 2400.1 | 2427.3 | 2481.6 | 2463.9 | 2366.1 | 2355.3 | 2209.9 |
| 50°   | 1988.5 | 2003.5 | 2129.8 | 2237.1 | 2330.8 | 2424.5 | 2531.8 | 2582.1 | 2512.8 | 2502.0 | 2351.2 |
| 52.5° | 1699.2 | 1714.2 | 1845.9 | 2093.1 | 2246.6 | 2404.2 | 2568.5 | 2700.3 | 2671.7 | 2659.5 | 2502.0 |
| 55°   | 1488.7 | 1521.3 | 1670.7 | 1850.0 | 2127.1 | 2340.3 | 2590.3 | 2821.2 | 2842.9 | 2832.0 | 2666.3 |
| 57.5° | 1279.5 | 1304.0 | 1416.7 | 1575.6 | 1964.1 | 2228.9 | 2588.9 | 2933.9 | 3022.2 | 3011.3 | 2833.4 |
| 60°   | 1033.7 | 1064.9 | 1154.5 | 1325.7 | 1746.8 | 2095.8 | 2550.9 | 3022.2 | 3194.7 | 3186.5 | 2995.0 |
| 62.5° | 865.2  | 874.7  | 938.6  | 1086.6 | 1466.9 | 1927.4 | 2465.3 | 3069.7 | 3350.9 | 3345.5 | 3140.4 |
| 65°   | 696.8  | 698.2  | 756.6  | 880.2  | 1196.7 | 1718.2 | 2320.0 | 3052.1 | 3469.1 | 3471.8 | 3244.9 |
| 67.5° | 537.9  | 544.7  | 597.6  | 691.4  | 950.8  | 1446.6 | 2112.1 | 2932.5 | 3470.4 | 3477.2 | 3185.2 |
| 70°   | 372.2  | 377.6  | 457.7  | 548.7  | 734.8  | 1153.2 | 1831.0 | 2616.1 | 3185.2 | 3190.6 | 2855.1 |
| 72.5° | 262.1  | 264.9  | 350.4  | 438.7  | 574.6  | 869.3  | 1381.4 | 2163.8 | 2715.2 | 2719.3 | 2401.5 |
| 75°   | 195.6  | 198.3  | 247.2  | 332.8  | 440.1  | 601.7  | 944.0  | 1657.1 | 2169.2 | 2169.2 | 1896.2 |
| 77.5° | 138.5  | 139.9  | 160.3  | 229.6  | 293.4  | 406.1  | 567.8  | 1085.3 | 1591.9 | 1594.6 | 1381.4 |
| 80°   | 93.7   | 95.1   | 104.6  | 154.8  | 183.4  | 220.0  | 308.3  | 569.1  | 1003.8 | 1007.8 | 877.5  |
| 82.5° | 48.9   | 51.6   | 58.4   | 78.8   | 92.4   | 122.2  | 158.9  | 289.3  | 555.5  | 566.4  | 527.0  |
| 85°   | 19.0   | 19.0   | 21.7   | 25.8   | 34.0   | 47.5   | 73.3   | 110.0  | 251.3  | 259.4  | 232.3  |
| 87.5° | 6.8    | 6.8    | 8.1    | 8.1    | 9.5    | 10.9   | 12.2   | 16.3   | 28.5   | 28.5   | 27.2   |
| 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):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1477.8 | 1477.8 | 1477.8 | 1477.8 | 1477.8 | 1477.8 | 1477.8 | 1477.8 | 1477.8 | 1477.8 | 1477.8 |
| 2.5°  | 1464.2 | 1464.2 | 1457.4 | 1460.2 | 1458.8 | 1456.1 | 1453.4 | 1457.4 | 1453.4 | 1443.9 | 1442.5 |
| 5°    | 1466.9 | 1464.2 | 1453.4 | 1452.0 | 1447.9 | 1442.5 | 1435.7 | 1438.4 | 1431.6 | 1423.5 | 1422.1 |
| 7.5°  | 1468.3 | 1462.9 | 1447.9 | 1442.5 | 1434.4 | 1423.5 | 1412.6 | 1412.6 | 1403.1 | 1395.0 | 1393.6 |
| 10°   | 1465.6 | 1458.8 | 1438.4 | 1427.6 | 1412.6 | 1396.3 | 1381.4 | 1377.3 | 1366.4 | 1356.9 | 1356.9 |
| 12.5° | 1466.9 | 1457.4 | 1431.6 | 1414.0 | 1393.6 | 1373.2 | 1354.2 | 1348.8 | 1339.3 | 1329.8 | 1328.4 |
| 15°   | 1475.1 | 1461.5 | 1428.9 | 1405.8 | 1375.9 | 1352.9 | 1332.5 | 1328.4 | 1320.3 | 1313.5 | 1313.5 |
| 17.5° | 1483.2 | 1465.6 | 1424.8 | 1392.2 | 1355.6 | 1329.8 | 1310.7 | 1310.7 | 1305.3 | 1301.2 | 1301.2 |
| 20°   | 1487.3 | 1466.9 | 1416.7 | 1373.2 | 1331.1 | 1304.0 | 1286.3 | 1289.0 | 1287.7 | 1286.3 | 1286.3 |
| 22.5° | 1496.8 | 1469.7 | 1409.9 | 1355.6 | 1305.3 | 1276.8 | 1260.5 | 1264.6 | 1263.2 | 1263.2 | 1264.6 |
| 25°   | 1511.8 | 1476.5 | 1404.5 | 1339.3 | 1280.9 | 1249.6 | 1232.0 | 1234.7 | 1234.7 | 1234.7 | 1234.7 |
| 27.5° | 1532.1 | 1490.0 | 1403.1 | 1324.3 | 1256.4 | 1221.1 | 1199.4 | 1199.4 | 1193.9 | 1195.3 | 1196.7 |
| 30°   | 1563.4 | 1515.8 | 1405.8 | 1310.7 | 1230.6 | 1185.8 | 1160.0 | 1155.9 | 1154.5 | 1157.3 | 1158.6 |
| 32.5° | 1601.4 | 1551.2 | 1422.1 | 1301.2 | 1203.4 | 1146.4 | 1113.8 | 1112.4 | 1108.4 | 1108.4 | 1108.4 |
| 35°   | 1649.0 | 1585.1 | 1437.1 | 1299.9 | 1176.3 | 1104.3 | 1069.0 | 1064.9 | 1055.4 | 1051.3 | 1051.3 |
| 37.5° | 1710.1 | 1638.1 | 1454.7 | 1290.4 | 1153.2 | 1063.5 | 1021.4 | 1007.8 | 997.0  | 995.6  | 995.6  |
| 40°   | 1784.8 | 1697.9 | 1480.5 | 1279.5 | 1128.7 | 1021.4 | 965.7  | 942.7  | 944.0  | 949.4  | 949.4  |
| 42.5° | 1873.1 | 1771.2 | 1513.1 | 1274.1 | 1093.4 | 978.0  | 900.5  | 873.4  | 882.9  | 888.3  | 889.7  |
| 45°   | 1976.3 | 1858.1 | 1549.8 | 1267.3 | 1060.8 | 929.1  | 831.3  | 797.3  | 801.4  | 802.7  | 804.1  |
| 47.5° | 2095.8 | 1954.6 | 1587.8 | 1261.8 | 1024.1 | 867.9  | 755.2  | 710.4  | 709.0  | 700.9  | 703.6  |
| 50°   | 2220.8 | 2056.4 | 1627.2 | 1252.3 | 979.3  | 796.0  | 675.1  | 622.1  | 611.2  | 599.0  | 600.4  |
| 52.5° | 2353.9 | 2161.0 | 1663.9 | 1237.4 | 923.6  | 722.6  | 599.0  | 542.0  | 520.2  | 506.6  | 509.4  |
| 55°   | 2500.6 | 2268.3 | 1699.2 | 1214.3 | 865.2  | 649.3  | 531.1  | 472.7  | 445.5  | 434.7  | 436.0  |
| 57.5° | 2635.1 | 2371.6 | 1725.0 | 1185.8 | 801.4  | 582.7  | 471.3  | 414.3  | 396.6  | 395.3  | 396.6  |
| 60°   | 2765.5 | 2458.5 | 1735.9 | 1146.4 | 736.2  | 521.6  | 415.6  | 372.2  | 359.9  | 366.7  | 368.1  |
| 62.5° | 2875.5 | 2514.2 | 1730.5 | 1093.4 | 669.6  | 463.2  | 370.8  | 339.6  | 331.4  | 345.0  | 346.4  |
| 65°   | 2939.3 | 2531.8 | 1692.4 | 1017.4 | 597.6  | 406.1  | 328.7  | 294.7  | 290.7  | 298.8  | 302.9  |
| 67.5° | 2855.1 | 2421.8 | 1589.2 | 912.8  | 517.5  | 353.2  | 288.0  | 260.8  | 254.0  | 260.8  | 260.8  |
| 70°   | 2530.5 | 2098.6 | 1344.7 | 747.1  | 429.2  | 301.5  | 249.9  | 230.9  | 225.5  | 230.9  | 229.6  |
| 72.5° | 2108.1 | 1745.4 | 1059.5 | 582.7  | 338.2  | 254.0  | 217.3  | 199.7  | 194.2  | 188.8  | 186.1  |
| 75°   | 1635.4 | 1325.7 | 768.8  | 427.9  | 255.4  | 203.7  | 182.0  | 165.7  | 152.1  | 157.6  | 154.8  |
| 77.5° | 1198.0 | 930.4  | 544.7  | 296.1  | 183.4  | 157.6  | 142.6  | 130.4  | 120.9  | 131.8  | 130.4  |
| 80°   | 771.5  | 601.7  | 364.0  | 198.3  | 126.3  | 110.0  | 104.6  | 97.8   | 107.3  | 139.9  | 142.6  |
| 82.5° | 471.3  | 381.7  | 217.3  | 129.0  | 82.9   | 73.3   | 67.9   | 67.9   | 110.0  | 120.9  | 122.2  |
| 85°   | 210.5  | 202.4  | 118.2  | 66.6   | 46.2   | 42.1   | 38.0   | 48.9   | 44.8   | 32.6   | 34.0   |
| 87.5° | 34.0   | 35.3   | 25.8   | 23.1   | 17.7   | 17.7   | 13.6   | 9.5    | 6.8    | 4.1    | 4.1    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)