

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: P1211541

Luminaire Tested: **ARCH4-40-722-U-T2RE**

Issue Date: 11/5/2025

### Test Information

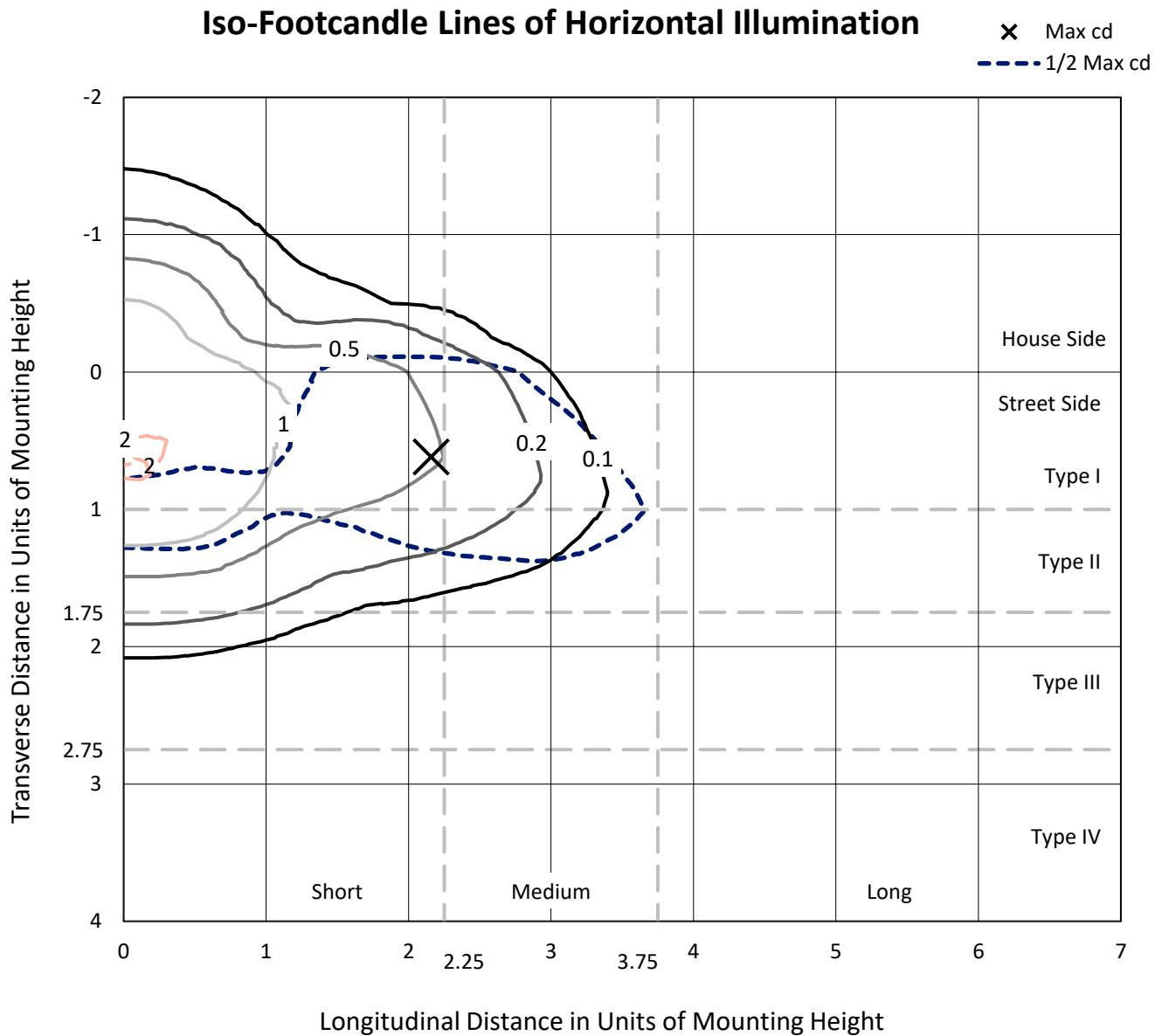
Test Method: LM-79-08  
Report Number: P1211541  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/5/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH4-40-722-U-T2RE  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2200K, 355mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II  
ROADWAY ILLUMINANCE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 6476 lumens  
Efficiency: N/A  
Efficacy: 147.9 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 43.8  
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



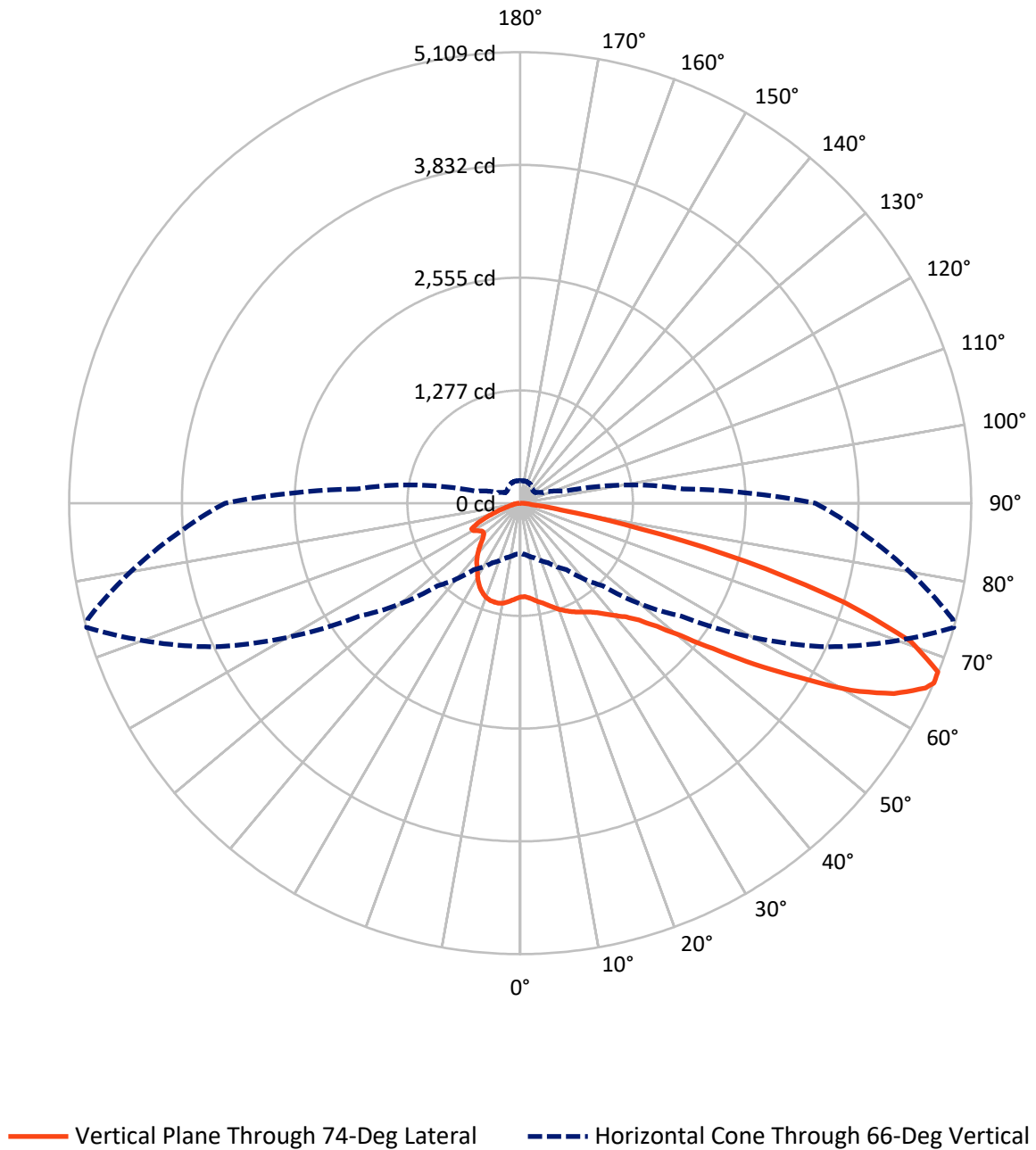
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Based on 25 foot mounting height. Maximum calculated value = 2 fc  
Type II - Short - N/A

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## Luminous Intensity Polar Plot



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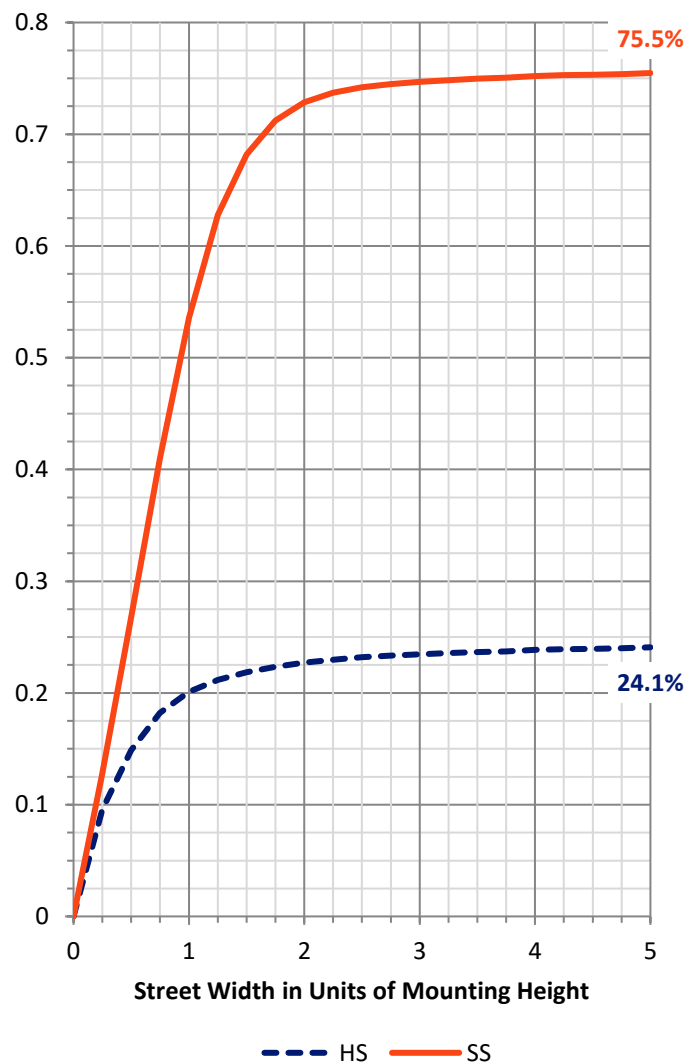
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1577.1   | 0.0    | 1577.1 |
|                    | % Fixture | 24.4     | 0.0    | 24.4   |
| <b>Street Side</b> | Lumens    | 4898.9   | 0.0    | 4898.9 |
|                    | % Fixture | 75.6     | 0.0    | 75.6   |
| <b>Total</b>       | Lumens    | 6476.0   | 0.0    | 6476.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 101.3  | 1.6       |
| 10°-20°   | 311.4  | 4.8       |
| 20°-30°   | 584.4  | 9.0       |
| 30°-40°   | 898.9  | 13.9      |
| 40°-50°   | 1209.1 | 18.7      |
| 50°-60°   | 1430.0 | 22.1      |
| 60°-70°   | 1322.8 | 20.4      |
| 70°-80°   | 556.5  | 8.6       |
| 80°-90°   | 61.6   | 1.0       |
| 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°    | 6476.0 | 100.0     |
| 0°-180°   | 6476.0 | 100.0     |

**Coefficient of Utilization**



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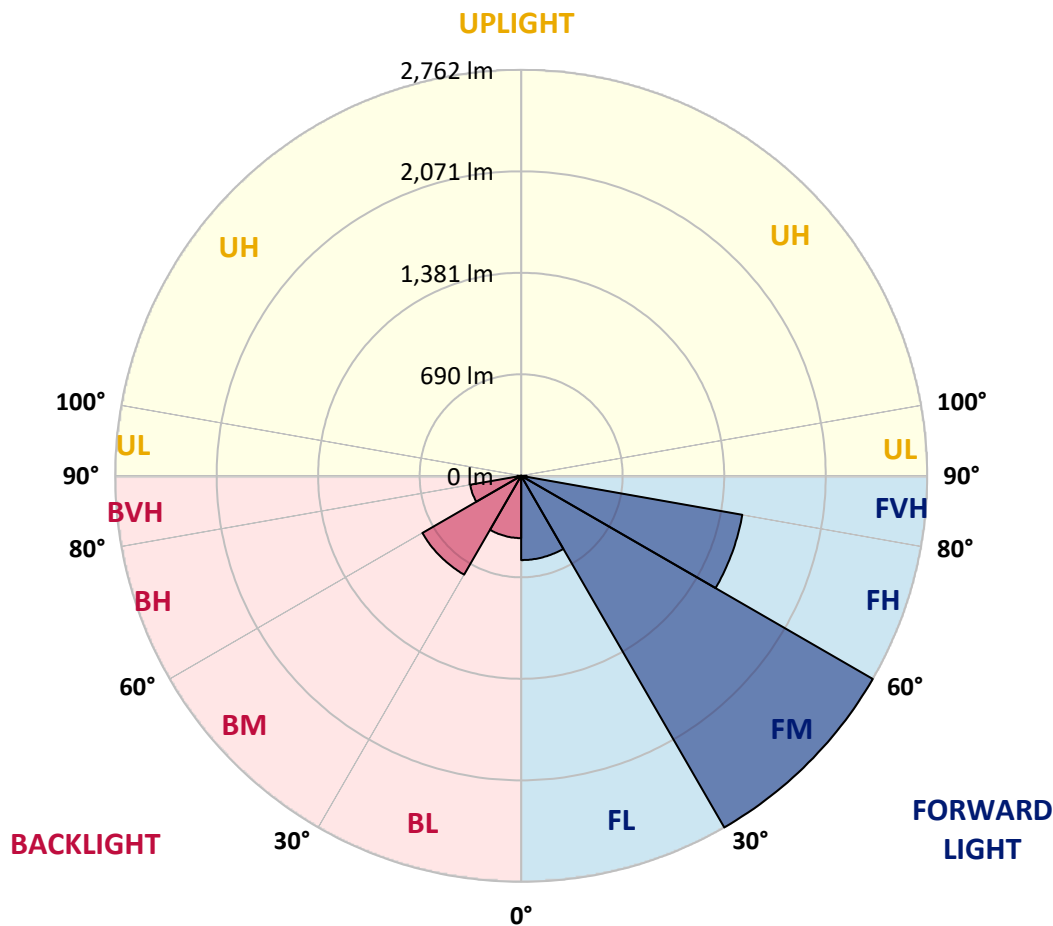
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 573.2  | 8.9       |                         |      |         |
| FM   | (30°-60°)   | 2761.6 | 42.6      |                         |      |         |
| FH   | (60°-80°)   | 1527.2 | 23.6      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 36.8   | 0.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 423.9  | 6.5       | B1/500                  |      |         |
| BM   | (30°-60°)   | 776.4  | 12.0      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 352.1  | 5.4       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 24.7   | 0.4       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G1**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 74°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1061.6 | 1061.6 | 1061.6 | 1061.6 | 1061.6 | 1061.6 | 1061.6 | 1061.6 | 1061.6 | 1061.6 | 1061.6 |
| 2.5°  | 1058.3 | 1056.6 | 1060.0 | 1065.0 | 1067.5 | 1063.3 | 1061.6 | 1060.8 | 1060.8 | 1058.3 | 1062.5 |
| 5°    | 1008.3 | 1007.5 | 1015.0 | 1024.1 | 1041.6 | 1054.1 | 1070.8 | 1080.8 | 1077.5 | 1072.5 | 1075.8 |
| 7.5°  | 943.3  | 941.6  | 950.8  | 968.3  | 992.5  | 1020.0 | 1060.8 | 1092.5 | 1105.0 | 1103.3 | 1102.5 |
| 10°   | 968.3  | 966.6  | 965.8  | 960.8  | 969.1  | 995.8  | 1038.3 | 1094.1 | 1136.6 | 1137.5 | 1138.3 |
| 12.5° | 1055.0 | 1059.1 | 1055.0 | 1039.1 | 1020.8 | 1010.8 | 1035.8 | 1098.3 | 1163.3 | 1168.3 | 1189.1 |
| 15°   | 1173.3 | 1169.1 | 1160.8 | 1142.5 | 1114.1 | 1084.1 | 1065.8 | 1117.5 | 1201.6 | 1205.8 | 1251.6 |
| 17.5° | 1277.5 | 1280.8 | 1275.8 | 1258.3 | 1225.0 | 1185.8 | 1130.0 | 1150.8 | 1242.5 | 1254.1 | 1318.3 |
| 20°   | 1390.8 | 1404.1 | 1397.5 | 1375.8 | 1348.3 | 1290.0 | 1220.0 | 1199.1 | 1287.5 | 1295.8 | 1387.5 |
| 22.5° | 1521.6 | 1535.8 | 1523.3 | 1502.5 | 1480.0 | 1408.3 | 1318.3 | 1258.3 | 1325.0 | 1342.5 | 1454.1 |
| 25°   | 1678.3 | 1691.6 | 1679.9 | 1647.4 | 1619.1 | 1531.6 | 1424.1 | 1325.0 | 1361.6 | 1380.8 | 1508.3 |
| 27.5° | 1802.4 | 1812.4 | 1823.3 | 1804.1 | 1760.8 | 1669.9 | 1534.1 | 1394.1 | 1398.3 | 1418.3 | 1558.3 |
| 30°   | 1913.3 | 1938.3 | 1947.4 | 1949.9 | 1913.3 | 1811.6 | 1646.6 | 1465.8 | 1430.0 | 1450.8 | 1608.3 |
| 32.5° | 2064.9 | 2102.4 | 2087.4 | 2102.4 | 2080.8 | 1944.9 | 1763.3 | 1539.9 | 1470.8 | 1490.0 | 1655.8 |
| 35°   | 2286.6 | 2316.6 | 2277.4 | 2265.8 | 2230.8 | 2079.9 | 1875.8 | 1616.6 | 1524.9 | 1545.8 | 1700.8 |
| 37.5° | 2524.9 | 2559.1 | 2502.4 | 2455.8 | 2389.1 | 2213.3 | 1972.4 | 1717.4 | 1599.9 | 1616.6 | 1742.4 |
| 40°   | 2733.2 | 2761.6 | 2712.4 | 2650.7 | 2539.1 | 2330.8 | 2055.8 | 1788.3 | 1674.9 | 1695.8 | 1790.8 |
| 42.5° | 2925.7 | 2944.1 | 2889.1 | 2829.9 | 2680.7 | 2436.6 | 2145.8 | 1863.3 | 1762.4 | 1782.4 | 1829.9 |
| 45°   | 3120.7 | 3134.9 | 3058.2 | 2974.1 | 2799.1 | 2533.2 | 2244.9 | 1968.3 | 1890.8 | 1917.4 | 1893.3 |
| 47.5° | 3155.7 | 3159.9 | 3146.6 | 3089.9 | 2892.4 | 2625.7 | 2367.4 | 2109.1 | 2086.6 | 2115.8 | 2002.4 |
| 50°   | 2913.2 | 2950.7 | 3033.2 | 3089.1 | 2929.9 | 2703.2 | 2489.9 | 2310.8 | 2356.6 | 2394.1 | 2229.1 |
| 52.5° | 2442.4 | 2478.3 | 2669.1 | 2880.7 | 2839.9 | 2720.7 | 2621.6 | 2566.6 | 2737.4 | 2782.4 | 2537.4 |
| 55°   | 1945.8 | 1977.4 | 2179.1 | 2484.1 | 2549.1 | 2640.7 | 2762.4 | 2893.2 | 3223.2 | 3253.2 | 2875.7 |
| 57.5° | 1602.4 | 1619.9 | 1764.1 | 2057.4 | 2161.6 | 2384.9 | 2838.2 | 3281.6 | 3717.4 | 3763.2 | 3169.9 |
| 60°   | 1314.1 | 1333.3 | 1440.8 | 1682.4 | 1820.8 | 2019.1 | 2778.2 | 3664.9 | 4307.4 | 4307.4 | 3547.4 |
| 62.5° | 989.1  | 1005.8 | 1105.8 | 1295.0 | 1527.4 | 1709.1 | 2586.6 | 3919.0 | 4752.3 | 4732.3 | 3820.7 |
| 65°   | 679.1  | 692.5  | 765.0  | 890.8  | 1100.0 | 1456.6 | 2324.9 | 3922.4 | 5047.3 | 5020.7 | 3937.4 |
| 66°   | 570.0  | 581.6  | 643.3  | 745.0  | 920.8  | 1321.6 | 2232.4 | 3851.5 | 5109.0 | 5071.5 | 3888.2 |
| 67.5° | 450.0  | 458.3  | 499.2  | 559.1  | 675.0  | 1070.0 | 2086.6 | 3650.7 | 5103.2 | 5080.7 | 3763.2 |
| 70°   | 321.7  | 327.5  | 357.5  | 370.0  | 399.2  | 619.1  | 1657.4 | 3197.4 | 4694.0 | 4700.7 | 3271.6 |
| 72.5° | 249.2  | 258.3  | 276.7  | 279.2  | 272.5  | 329.2  | 1005.8 | 2667.4 | 3839.9 | 3837.4 | 2428.3 |
| 75°   | 200.8  | 205.8  | 215.0  | 220.0  | 218.3  | 212.5  | 425.8  | 1989.9 | 2643.2 | 2674.1 | 1360.0 |
| 77.5° | 158.3  | 157.5  | 165.8  | 172.5  | 177.5  | 166.7  | 195.0  | 1166.6 | 1385.8 | 1346.6 | 510.8  |
| 80°   | 116.7  | 116.7  | 128.3  | 130.8  | 138.3  | 140.0  | 130.0  | 450.0  | 475.8  | 432.5  | 132.5  |
| 82.5° | 76.7   | 76.7   | 89.2   | 90.8   | 98.3   | 109.2  | 94.2   | 135.0  | 131.7  | 125.0  | 60.0   |
| 85°   | 41.7   | 40.0   | 44.2   | 50.0   | 54.2   | 64.2   | 56.7   | 67.5   | 69.2   | 68.3   | 40.0   |
| 87.5° | 8.3    | 7.5    | 11.7   | 13.3   | 15.0   | 20.0   | 18.3   | 27.5   | 38.3   | 37.5   | 17.5   |
| 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°    | 1061.6 | 1061.6 | 1061.6 | 1061.6 | 1061.6 | 1061.6 | 1061.6 | 1061.6 | 1061.6 | 1061.6 | 1061.6 |
| 2.5°  | 1068.3 | 1067.5 | 1076.6 | 1087.5 | 1100.0 | 1107.5 | 1110.8 | 1116.6 | 1112.5 | 1114.1 | 1119.1 |
| 5°    | 1084.1 | 1086.6 | 1100.0 | 1114.1 | 1120.0 | 1115.8 | 1106.6 | 1103.3 | 1095.8 | 1094.1 | 1092.5 |
| 7.5°  | 1107.5 | 1111.6 | 1125.0 | 1128.3 | 1110.8 | 1081.6 | 1060.8 | 1049.1 | 1036.6 | 1033.3 | 1031.6 |
| 10°   | 1145.8 | 1148.3 | 1151.6 | 1117.5 | 1074.1 | 1035.0 | 1009.1 | 998.3  | 990.0  | 983.3  | 985.0  |
| 12.5° | 1194.1 | 1192.5 | 1166.6 | 1095.8 | 1034.1 | 994.1  | 976.6  | 970.0  | 964.1  | 960.0  | 959.1  |
| 15°   | 1255.0 | 1243.3 | 1169.1 | 1065.8 | 996.6  | 963.3  | 950.8  | 948.3  | 941.6  | 941.6  | 940.8  |
| 17.5° | 1316.6 | 1286.6 | 1167.5 | 1034.1 | 960.8  | 942.5  | 935.0  | 933.3  | 931.6  | 930.8  | 933.3  |
| 20°   | 1378.3 | 1325.0 | 1154.1 | 995.0  | 935.8  | 925.0  | 923.3  | 924.1  | 922.5  | 925.0  | 923.3  |
| 22.5° | 1432.5 | 1350.0 | 1129.1 | 953.3  | 918.3  | 917.5  | 913.3  | 915.0  | 920.8  | 921.6  | 924.1  |
| 25°   | 1474.1 | 1359.1 | 1092.5 | 915.0  | 905.8  | 904.1  | 909.1  | 915.8  | 920.8  | 921.6  | 925.8  |
| 27.5° | 1508.3 | 1354.1 | 1046.6 | 885.0  | 884.1  | 893.3  | 908.3  | 910.8  | 911.6  | 911.6  | 908.3  |
| 30°   | 1534.1 | 1343.3 | 988.3  | 851.6  | 855.8  | 878.3  | 892.5  | 892.5  | 885.8  | 884.1  | 889.1  |
| 32.5° | 1539.9 | 1329.1 | 925.0  | 817.5  | 824.1  | 850.8  | 868.3  | 862.5  | 855.0  | 855.0  | 858.3  |
| 35°   | 1544.9 | 1310.0 | 874.1  | 770.8  | 780.8  | 812.5  | 829.1  | 817.5  | 809.1  | 806.6  | 805.8  |
| 37.5° | 1543.3 | 1302.5 | 828.3  | 711.6  | 725.0  | 755.8  | 766.6  | 755.8  | 743.3  | 737.5  | 745.0  |
| 40°   | 1544.9 | 1297.5 | 770.8  | 646.6  | 660.0  | 678.3  | 692.5  | 684.1  | 672.5  | 657.5  | 665.0  |
| 42.5° | 1554.9 | 1304.1 | 707.5  | 583.3  | 583.3  | 593.3  | 617.5  | 611.6  | 583.3  | 577.5  | 584.1  |
| 45°   | 1608.3 | 1340.0 | 644.1  | 520.0  | 510.8  | 517.5  | 542.5  | 517.5  | 500.0  | 500.0  | 505.8  |
| 47.5° | 1737.4 | 1406.6 | 588.3  | 464.2  | 442.5  | 455.8  | 462.5  | 439.2  | 425.8  | 422.5  | 428.3  |
| 50°   | 2000.8 | 1539.9 | 555.0  | 418.3  | 391.7  | 401.7  | 397.5  | 396.7  | 383.3  | 385.0  | 388.3  |
| 52.5° | 2400.8 | 1799.9 | 545.0  | 395.8  | 362.5  | 365.0  | 360.8  | 362.5  | 360.0  | 368.3  | 370.8  |
| 55°   | 2836.6 | 2074.1 | 557.5  | 399.2  | 342.5  | 325.0  | 326.7  | 335.0  | 345.0  | 358.3  | 360.8  |
| 57.5° | 3162.4 | 2211.6 | 590.0  | 421.7  | 317.5  | 290.8  | 295.0  | 310.8  | 330.0  | 340.8  | 346.7  |
| 60°   | 3404.9 | 2194.9 | 637.5  | 427.5  | 287.5  | 260.0  | 267.5  | 290.8  | 307.5  | 316.7  | 322.5  |
| 62.5° | 3484.1 | 2090.8 | 649.1  | 385.0  | 248.3  | 230.8  | 249.2  | 273.3  | 280.8  | 290.8  | 295.0  |
| 65°   | 3419.1 | 1943.3 | 564.1  | 312.5  | 218.3  | 209.2  | 235.8  | 254.2  | 264.2  | 269.2  | 270.0  |
| 66°   | 3342.4 | 1854.9 | 518.3  | 284.2  | 207.5  | 202.5  | 230.8  | 245.8  | 255.8  | 255.0  | 255.8  |
| 67.5° | 3174.1 | 1669.9 | 444.2  | 244.2  | 191.7  | 192.5  | 222.5  | 232.5  | 235.8  | 233.3  | 233.3  |
| 70°   | 2601.6 | 1175.8 | 318.3  | 185.0  | 168.3  | 180.0  | 200.0  | 202.5  | 210.0  | 206.7  | 206.7  |
| 72.5° | 1604.1 | 577.5  | 213.3  | 141.7  | 150.0  | 168.3  | 167.5  | 175.8  | 193.3  | 198.3  | 201.7  |
| 75°   | 788.3  | 234.2  | 140.8  | 120.0  | 134.2  | 140.8  | 139.2  | 160.0  | 185.0  | 206.7  | 214.2  |
| 77.5° | 299.2  | 116.7  | 98.3   | 105.0  | 108.3  | 105.8  | 110.8  | 145.0  | 185.0  | 224.2  | 231.7  |
| 80°   | 92.5   | 80.8   | 77.5   | 86.7   | 81.7   | 77.5   | 83.3   | 120.0  | 156.7  | 170.0  | 170.0  |
| 82.5° | 55.8   | 63.3   | 60.0   | 59.2   | 55.0   | 55.8   | 60.0   | 85.8   | 120.8  | 126.7  | 126.7  |
| 85°   | 39.2   | 41.7   | 34.2   | 32.5   | 31.7   | 30.8   | 30.8   | 50.0   | 71.7   | 70.8   | 73.3   |
| 87.5° | 15.0   | 16.7   | 12.5   | 12.5   | 11.7   | 8.3    | 6.7    | 8.3    | 8.3    | 5.8    | 4.2    |
| 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)