

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: P1209973

Luminaire Tested: **ARCH1-40-722-U-T2RE**

Issue Date: 11/5/2025

### Test Information

Test Method: LM-79-08  
Report Number: P1209973  
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: ARCH1-40-722-U-T2RE  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2200K, 1220mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY  
ILLUMINANCE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 5008 lumens  
Efficiency: N/A  
Efficacy: 116.5 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 43  
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

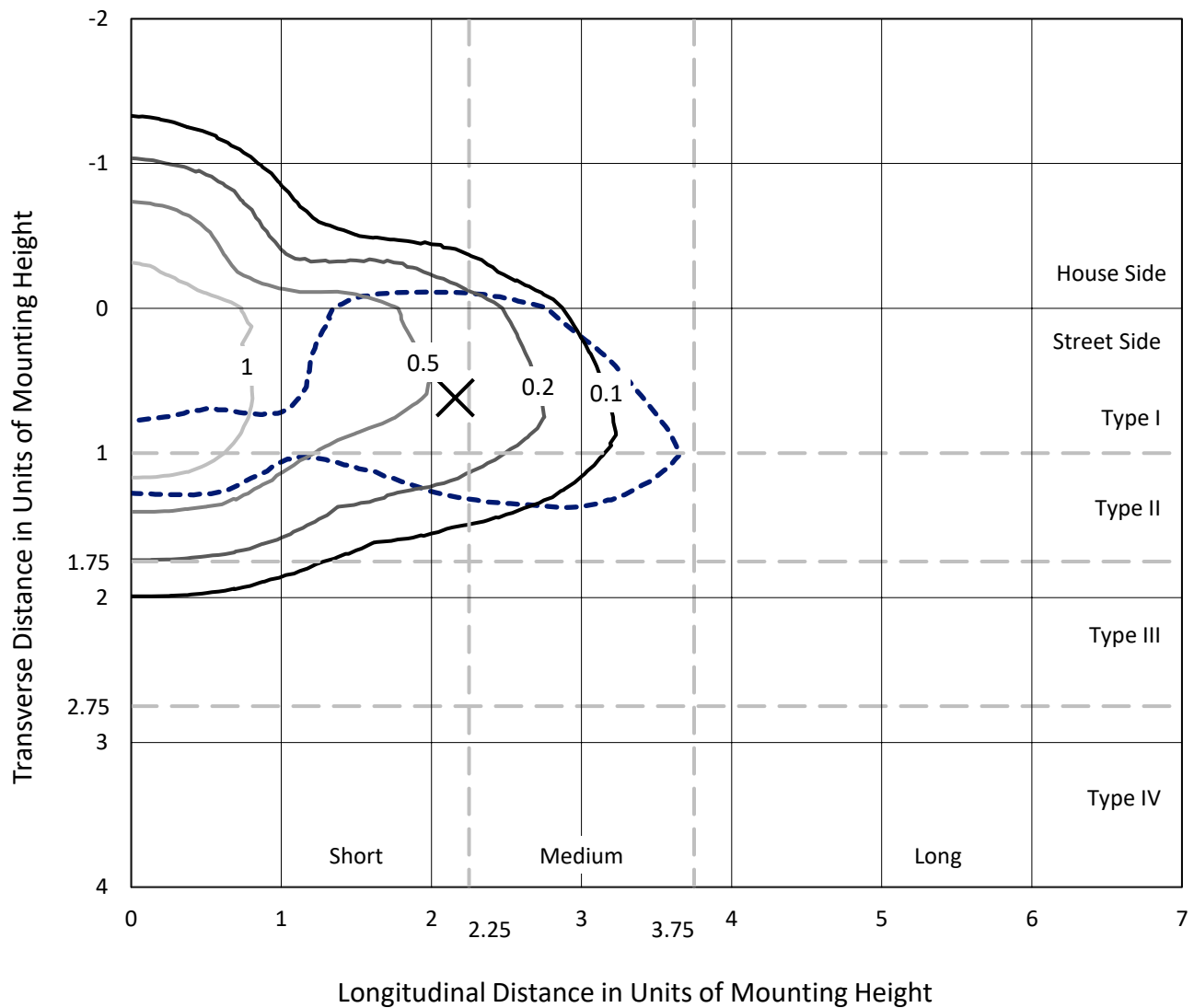


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## Iso-Footcandle Lines of Horizontal Illumination

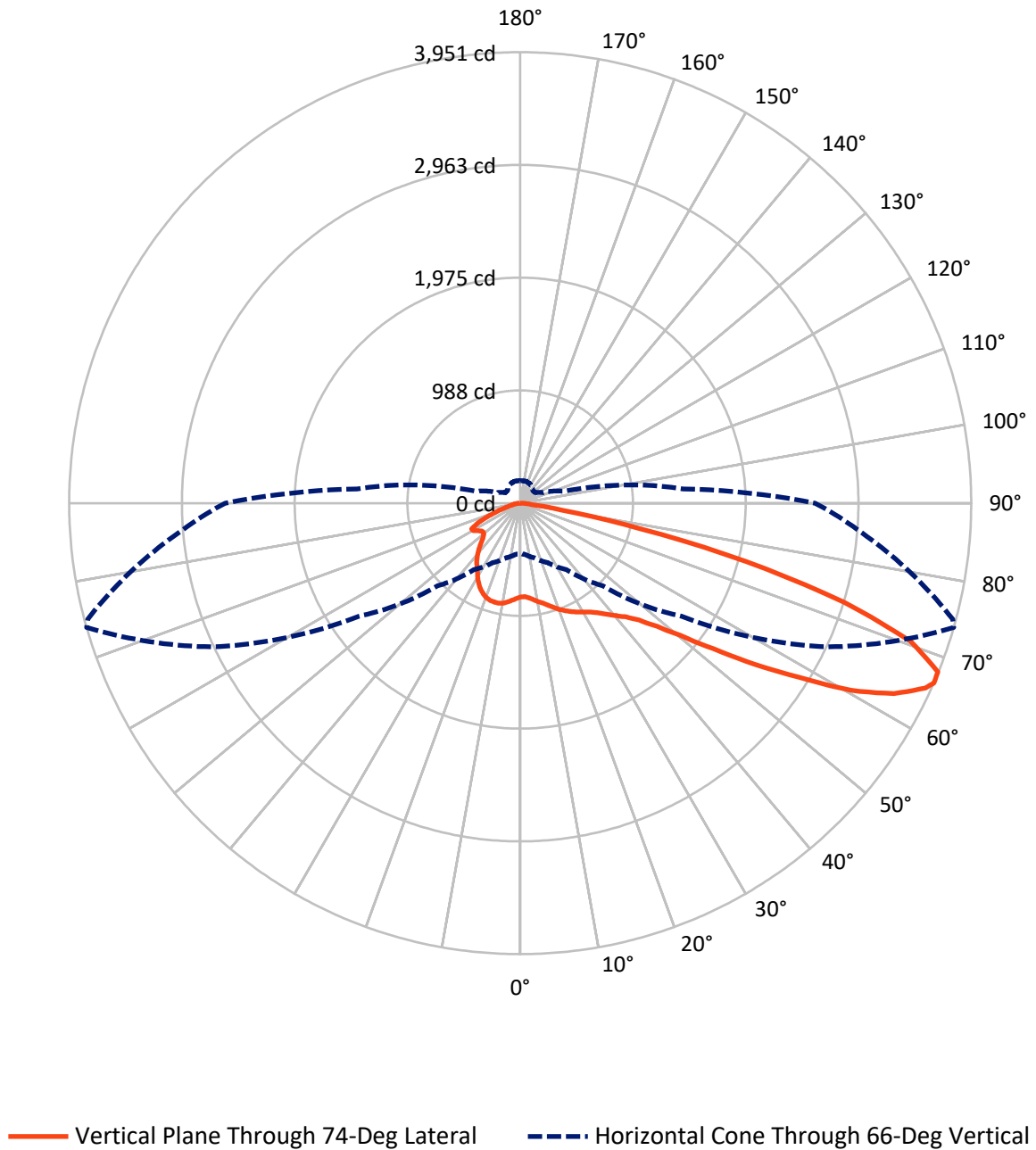
✕ Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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    | 1219.6   | 0.0    | 1219.6 |
|                    | % Fixture | 24.4     | 0.0    | 24.4   |
| <b>Street Side</b> | Lumens    | 3788.4   | 0.0    | 3788.4 |
|                    | % Fixture | 75.6     | 0.0    | 75.6   |
| <b>Total</b>       | Lumens    | 5008.0   | 0.0    | 5008.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 78.3   | 1.6       |
| 10°-20°   | 240.8  | 4.8       |
| 20°-30°   | 451.9  | 9.0       |
| 30°-40°   | 695.2  | 13.9      |
| 40°-50°   | 935.1  | 18.7      |
| 50°-60°   | 1105.8 | 22.1      |
| 60°-70°   | 1022.9 | 20.4      |
| 70°-80°   | 430.3  | 8.6       |
| 80°-90°   | 47.6   | 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°    | 5008.0 | 100.0     |
| 0°-180°   | 5008.0 | 100.0     |

**Coefficient of Utilization**



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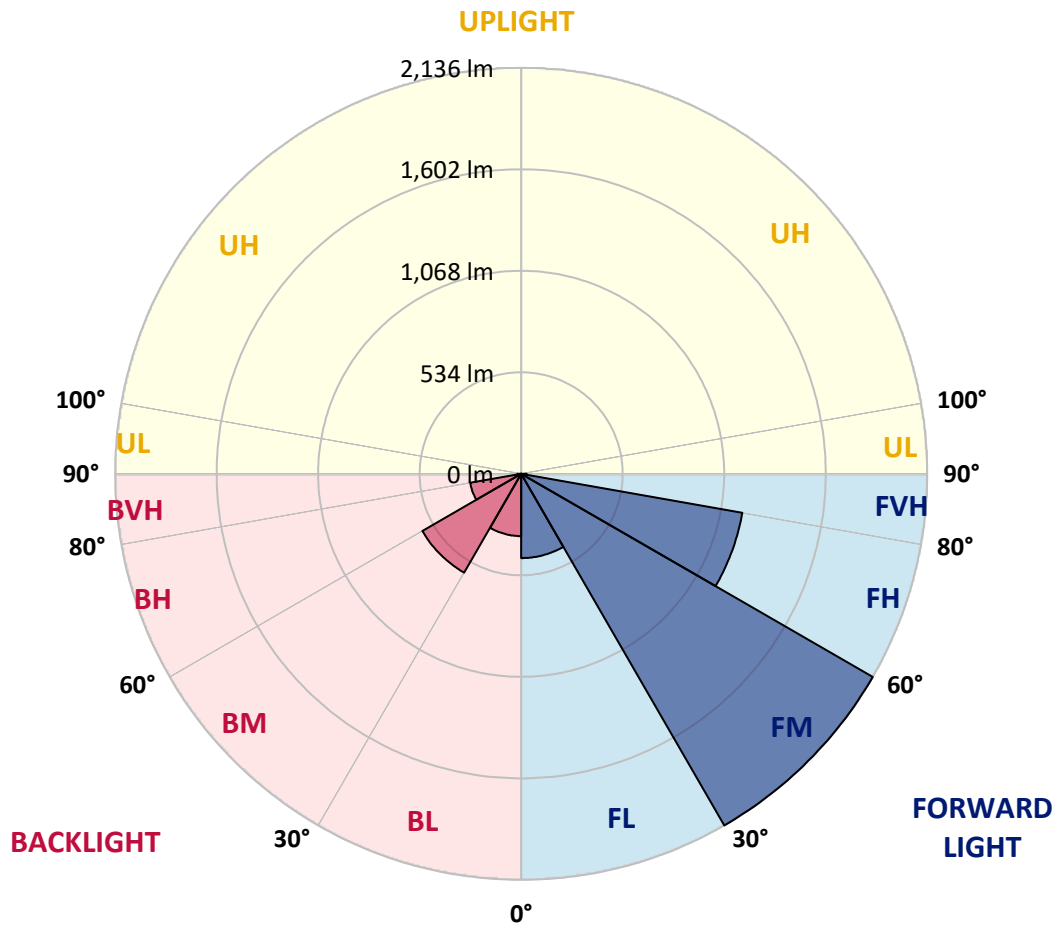
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 443.3  | 8.9       |                         |      |         |
| FM   | (30°-60°)   | 2135.6 | 42.6      |                         |      |         |
| FH   | (60°-80°)   | 1181.0 | 23.6      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 28.5   | 0.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 327.8  | 6.5       | B1/500                  |      |         |
| BM   | (30°-60°)   | 600.4  | 12.0      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 272.3  | 5.4       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 19.1   | 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°    | 821.0  | 821.0  | 821.0  | 821.0  | 821.0  | 821.0  | 821.0  | 821.0  | 821.0  | 821.0  | 821.0  |
| 2.5°  | 818.4  | 817.1  | 819.7  | 823.6  | 825.5  | 822.3  | 821.0  | 820.3  | 820.3  | 818.4  | 821.6  |
| 5°    | 779.7  | 779.1  | 784.9  | 792.0  | 805.5  | 815.2  | 828.1  | 835.8  | 833.2  | 829.4  | 831.9  |
| 7.5°  | 729.5  | 728.2  | 735.3  | 748.8  | 767.5  | 788.8  | 820.3  | 844.8  | 854.5  | 853.2  | 852.6  |
| 10°   | 748.8  | 747.5  | 746.9  | 743.0  | 749.4  | 770.1  | 802.9  | 846.1  | 879.0  | 879.6  | 880.3  |
| 12.5° | 815.8  | 819.0  | 815.8  | 803.6  | 789.4  | 781.7  | 801.0  | 849.3  | 899.6  | 903.5  | 919.6  |
| 15°   | 907.3  | 904.1  | 897.7  | 883.5  | 861.6  | 838.4  | 824.2  | 864.2  | 929.2  | 932.5  | 967.9  |
| 17.5° | 987.9  | 990.5  | 986.6  | 973.1  | 947.3  | 917.0  | 873.8  | 889.9  | 960.8  | 969.8  | 1019.5 |
| 20°   | 1075.5 | 1085.8 | 1080.7 | 1063.9 | 1042.7 | 997.5  | 943.4  | 927.3  | 995.6  | 1002.1 | 1072.9 |
| 22.5° | 1176.7 | 1187.6 | 1178.0 | 1161.9 | 1144.5 | 1089.1 | 1019.5 | 973.1  | 1024.6 | 1038.1 | 1124.5 |
| 25°   | 1297.8 | 1308.2 | 1299.1 | 1274.0 | 1252.1 | 1184.4 | 1101.3 | 1024.6 | 1053.0 | 1067.8 | 1166.4 |
| 27.5° | 1393.9 | 1401.6 | 1410.0 | 1395.1 | 1361.6 | 1291.4 | 1186.4 | 1078.1 | 1081.3 | 1096.8 | 1205.0 |
| 30°   | 1479.6 | 1498.9 | 1506.0 | 1507.9 | 1479.6 | 1400.9 | 1273.4 | 1133.5 | 1105.8 | 1121.9 | 1243.7 |
| 32.5° | 1596.8 | 1625.8 | 1614.2 | 1625.8 | 1609.1 | 1504.1 | 1363.6 | 1190.9 | 1137.4 | 1152.2 | 1280.4 |
| 35°   | 1768.3 | 1791.5 | 1761.2 | 1752.1 | 1725.1 | 1608.4 | 1450.6 | 1250.2 | 1179.3 | 1195.4 | 1315.2 |
| 37.5° | 1952.6 | 1979.0 | 1935.2 | 1899.1 | 1847.5 | 1711.6 | 1525.3 | 1328.1 | 1237.3 | 1250.2 | 1347.5 |
| 40°   | 2113.7 | 2135.6 | 2097.6 | 2049.9 | 1963.5 | 1802.4 | 1589.8 | 1382.9 | 1295.3 | 1311.4 | 1384.8 |
| 42.5° | 2262.5 | 2276.7 | 2234.2 | 2188.4 | 2073.1 | 1884.3 | 1659.4 | 1440.9 | 1362.9 | 1378.4 | 1415.1 |
| 45°   | 2413.3 | 2424.3 | 2365.0 | 2299.9 | 2164.6 | 1959.0 | 1736.0 | 1522.1 | 1462.2 | 1482.8 | 1464.1 |
| 47.5° | 2440.4 | 2443.6 | 2433.3 | 2389.5 | 2236.7 | 2030.5 | 1830.8 | 1631.0 | 1613.6 | 1636.2 | 1548.5 |
| 50°   | 2252.9 | 2281.9 | 2345.7 | 2388.8 | 2265.7 | 2090.5 | 1925.5 | 1786.9 | 1822.4 | 1851.4 | 1723.8 |
| 52.5° | 1888.8 | 1916.5 | 2064.0 | 2227.7 | 2196.1 | 2104.0 | 2027.3 | 1984.8 | 2116.9 | 2151.7 | 1962.2 |
| 55°   | 1504.7 | 1529.2 | 1685.1 | 1921.0 | 1971.2 | 2042.1 | 2136.2 | 2237.4 | 2492.6 | 2515.8 | 2223.9 |
| 57.5° | 1239.2 | 1252.7 | 1364.2 | 1591.0 | 1671.6 | 1844.3 | 2194.9 | 2537.7 | 2874.7 | 2910.2 | 2451.3 |
| 60°   | 1016.2 | 1031.1 | 1114.2 | 1301.1 | 1408.0 | 1561.4 | 2148.5 | 2834.1 | 3331.0 | 3331.0 | 2743.3 |
| 62.5° | 764.9  | 777.8  | 855.1  | 1001.4 | 1181.2 | 1321.7 | 2000.2 | 3030.7 | 3675.1 | 3659.6 | 2954.6 |
| 65°   | 525.2  | 535.5  | 591.6  | 688.9  | 850.6  | 1126.4 | 1797.9 | 3033.2 | 3903.2 | 3882.6 | 3044.8 |
| 66°   | 440.8  | 449.8  | 497.5  | 576.1  | 712.1  | 1022.0 | 1726.4 | 2978.5 | 3950.9 | 3921.9 | 3006.8 |
| 67.5° | 348.0  | 354.4  | 386.0  | 432.4  | 522.0  | 827.4  | 1613.6 | 2823.2 | 3946.4 | 3929.0 | 2910.2 |
| 70°   | 248.7  | 253.3  | 276.5  | 286.1  | 308.7  | 478.8  | 1281.7 | 2472.6 | 3630.0 | 3635.1 | 2530.0 |
| 72.5° | 192.7  | 199.8  | 213.9  | 215.9  | 210.7  | 254.5  | 777.8  | 2062.8 | 2969.4 | 2967.5 | 1877.8 |
| 75°   | 155.3  | 159.2  | 166.3  | 170.1  | 168.8  | 164.3  | 329.3  | 1538.8 | 2044.1 | 2067.9 | 1051.7 |
| 77.5° | 122.4  | 121.8  | 128.2  | 133.4  | 137.3  | 128.9  | 150.8  | 902.2  | 1071.7 | 1041.4 | 395.0  |
| 80°   | 90.2   | 90.2   | 99.2   | 101.2  | 107.0  | 108.3  | 100.5  | 348.0  | 368.0  | 334.4  | 102.5  |
| 82.5° | 59.3   | 59.3   | 69.0   | 70.2   | 76.0   | 84.4   | 72.8   | 104.4  | 101.8  | 96.7   | 46.4   |
| 85°   | 32.2   | 30.9   | 34.2   | 38.7   | 41.9   | 49.6   | 43.8   | 52.2   | 53.5   | 52.8   | 30.9   |
| 87.5° | 6.4    | 5.8    | 9.0    | 10.3   | 11.6   | 15.5   | 14.2   | 21.3   | 29.6   | 29.0   | 13.5   |
| 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°    | 821.0  | 821.0  | 821.0 | 821.0 | 821.0 | 821.0 | 821.0 | 821.0 | 821.0 | 821.0 | 821.0 |
| 2.5°  | 826.1  | 825.5  | 832.6 | 841.0 | 850.6 | 856.4 | 859.0 | 863.5 | 860.3 | 861.6 | 865.4 |
| 5°    | 838.4  | 840.3  | 850.6 | 861.6 | 866.1 | 862.9 | 855.8 | 853.2 | 847.4 | 846.1 | 844.8 |
| 7.5°  | 856.4  | 859.6  | 870.0 | 872.5 | 859.0 | 836.4 | 820.3 | 811.3 | 801.6 | 799.1 | 797.8 |
| 10°   | 886.1  | 888.0  | 890.6 | 864.2 | 830.6 | 800.4 | 780.4 | 772.0 | 765.6 | 760.4 | 761.7 |
| 12.5° | 923.4  | 922.1  | 902.2 | 847.4 | 799.7 | 768.8 | 755.2 | 750.1 | 745.6 | 742.4 | 741.7 |
| 15°   | 970.5  | 961.5  | 904.1 | 824.2 | 770.7 | 744.9 | 735.3 | 733.3 | 728.2 | 728.2 | 727.5 |
| 17.5° | 1018.2 | 995.0  | 902.8 | 799.7 | 743.0 | 728.8 | 723.0 | 721.7 | 720.4 | 719.8 | 721.7 |
| 20°   | 1065.9 | 1024.6 | 892.5 | 769.4 | 723.7 | 715.3 | 714.0 | 714.7 | 713.4 | 715.3 | 714.0 |
| 22.5° | 1107.7 | 1043.9 | 873.2 | 737.2 | 710.1 | 709.5 | 706.3 | 707.6 | 712.1 | 712.7 | 714.7 |
| 25°   | 1140.0 | 1051.0 | 844.8 | 707.6 | 700.5 | 699.2 | 703.1 | 708.2 | 712.1 | 712.7 | 715.9 |
| 27.5° | 1166.4 | 1047.2 | 809.4 | 684.4 | 683.7 | 690.8 | 702.4 | 704.3 | 705.0 | 705.0 | 702.4 |
| 30°   | 1186.4 | 1038.8 | 764.3 | 658.6 | 661.8 | 679.2 | 690.2 | 690.2 | 685.0 | 683.7 | 687.6 |
| 32.5° | 1190.9 | 1027.8 | 715.3 | 632.2 | 637.3 | 657.9 | 671.5 | 667.0 | 661.2 | 661.2 | 663.7 |
| 35°   | 1194.7 | 1013.0 | 676.0 | 596.1 | 603.8 | 628.3 | 641.2 | 632.2 | 625.7 | 623.8 | 623.1 |
| 37.5° | 1193.4 | 1007.2 | 640.5 | 550.3 | 560.6 | 584.5 | 592.9 | 584.5 | 574.8 | 570.3 | 576.1 |
| 40°   | 1194.7 | 1003.3 | 596.1 | 500.1 | 510.4 | 524.5 | 535.5 | 529.1 | 520.0 | 508.4 | 514.2 |
| 42.5° | 1202.5 | 1008.5 | 547.1 | 451.1 | 451.1 | 458.8 | 477.5 | 473.0 | 451.1 | 446.6 | 451.7 |
| 45°   | 1243.7 | 1036.2 | 498.1 | 402.1 | 395.0 | 400.2 | 419.5 | 400.2 | 386.6 | 386.6 | 391.2 |
| 47.5° | 1343.6 | 1087.8 | 455.0 | 358.9 | 342.2 | 352.5 | 357.6 | 339.6 | 329.3 | 326.7 | 331.2 |
| 50°   | 1547.2 | 1190.9 | 429.2 | 323.5 | 302.9 | 310.6 | 307.4 | 306.7 | 296.4 | 297.7 | 300.3 |
| 52.5° | 1856.5 | 1391.9 | 421.4 | 306.1 | 280.3 | 282.3 | 279.0 | 280.3 | 278.4 | 284.8 | 286.8 |
| 55°   | 2193.6 | 1603.9 | 431.1 | 308.7 | 264.9 | 251.3 | 252.6 | 259.1 | 266.8 | 277.1 | 279.0 |
| 57.5° | 2445.5 | 1710.3 | 456.2 | 326.1 | 245.5 | 224.9 | 228.1 | 240.4 | 255.2 | 263.6 | 268.1 |
| 60°   | 2633.1 | 1697.4 | 493.0 | 330.6 | 222.3 | 201.1 | 206.9 | 224.9 | 237.8 | 244.9 | 249.4 |
| 62.5° | 2694.3 | 1616.8 | 502.0 | 297.7 | 192.0 | 178.5 | 192.7 | 211.4 | 217.2 | 224.9 | 228.1 |
| 65°   | 2644.0 | 1502.8 | 436.3 | 241.7 | 168.8 | 161.7 | 182.4 | 196.5 | 204.3 | 208.1 | 208.8 |
| 66°   | 2584.7 | 1434.5 | 400.8 | 219.7 | 160.5 | 156.6 | 178.5 | 190.1 | 197.8 | 197.2 | 197.8 |
| 67.5° | 2454.6 | 1291.4 | 343.5 | 188.8 | 148.2 | 148.9 | 172.1 | 179.8 | 182.4 | 180.4 | 180.4 |
| 70°   | 2011.8 | 909.3  | 246.2 | 143.1 | 130.2 | 139.2 | 154.7 | 156.6 | 162.4 | 159.8 | 159.8 |
| 72.5° | 1240.5 | 446.6  | 165.0 | 109.5 | 116.0 | 130.2 | 129.5 | 136.0 | 149.5 | 153.4 | 155.9 |
| 75°   | 609.6  | 181.1  | 108.9 | 92.8  | 103.7 | 108.9 | 107.6 | 123.7 | 143.1 | 159.8 | 165.6 |
| 77.5° | 231.3  | 90.2   | 76.0  | 81.2  | 83.8  | 81.8  | 85.7  | 112.1 | 143.1 | 173.3 | 179.1 |
| 80°   | 71.5   | 62.5   | 59.9  | 67.0  | 63.2  | 59.9  | 64.4  | 92.8  | 121.1 | 131.5 | 131.5 |
| 82.5° | 43.2   | 49.0   | 46.4  | 45.8  | 42.5  | 43.2  | 46.4  | 66.4  | 93.4  | 98.0  | 98.0  |
| 85°   | 30.3   | 32.2   | 26.4  | 25.1  | 24.5  | 23.8  | 23.8  | 38.7  | 55.4  | 54.8  | 56.7  |
| 87.5° | 11.6   | 12.9   | 9.7   | 9.7   | 9.0   | 6.4   | 5.2   | 6.4   | 6.4   | 4.5   | 3.2   |
| 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)