

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: P1211549

Luminaire Tested: **ARCH4-40-730-U-T2RE**

Issue Date: 11/5/2025

### Test Information

Test Method: LM-79-08  
Report Number: P1211549  
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: ARCH4-40-730-U-T2RE  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 355mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II  
ROADWAY ILLUMINANCE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 7401 lumens  
Efficiency: N/A  
Efficacy: 169.0 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

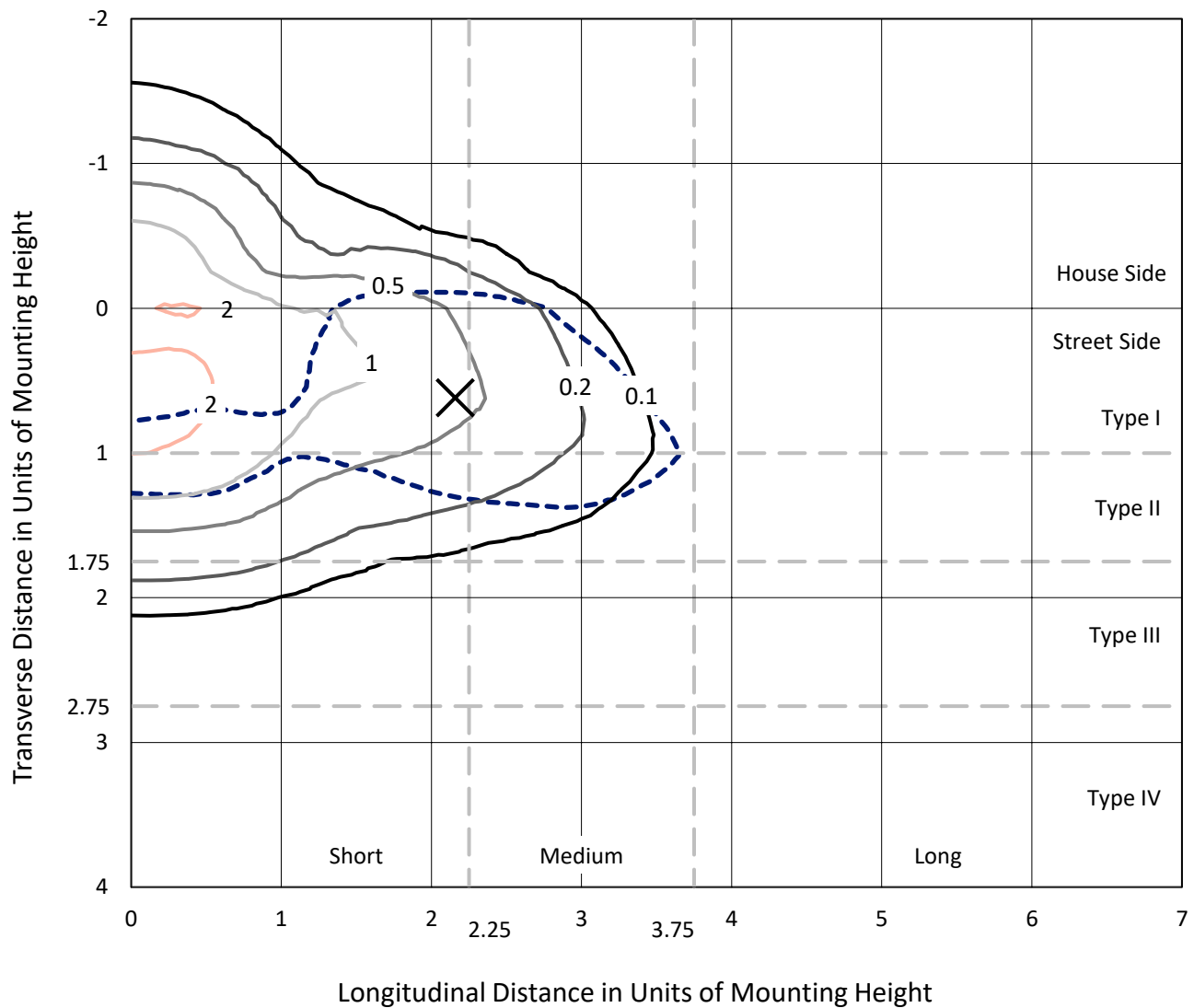


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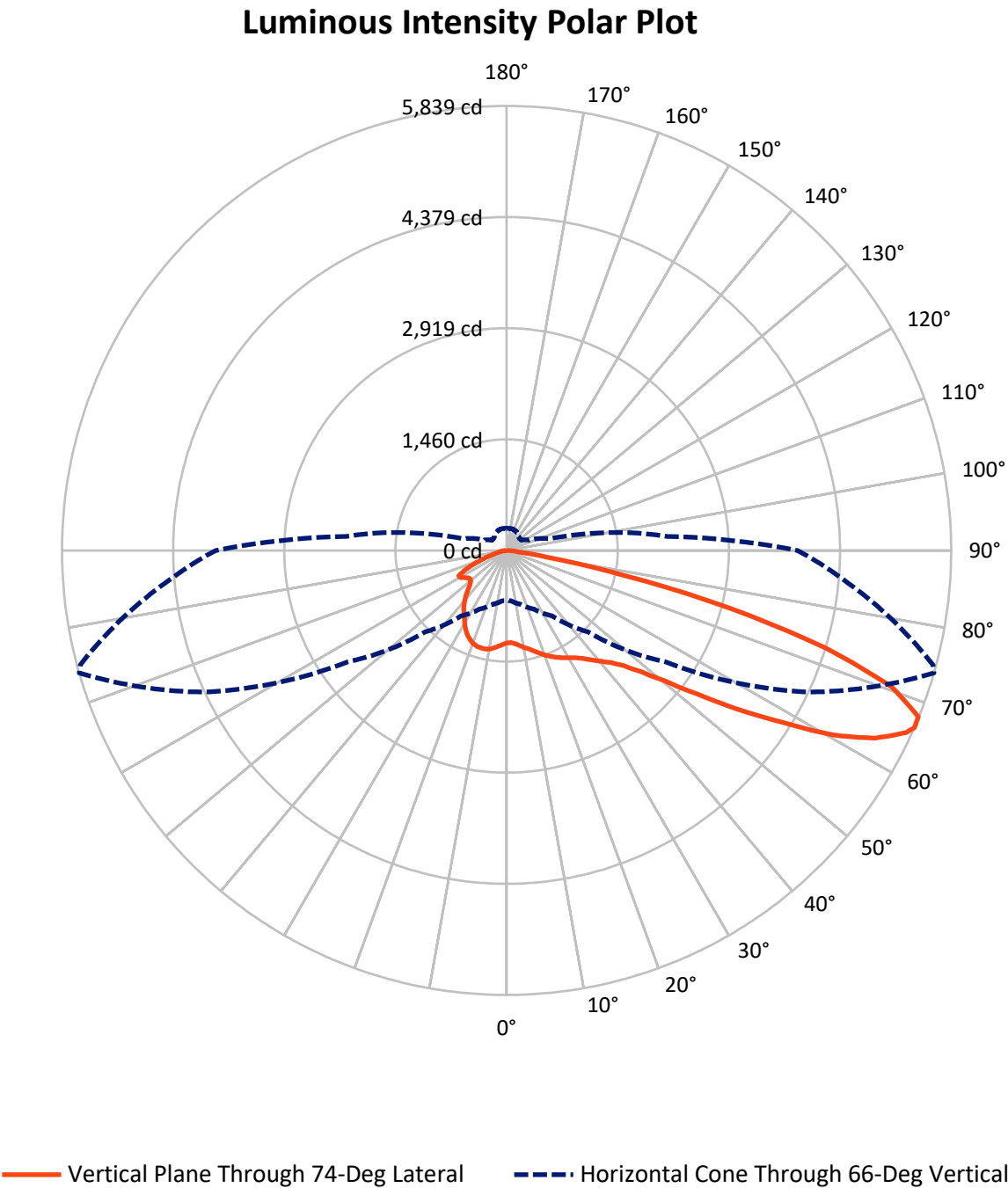
## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc  
Type II - Short - N/A

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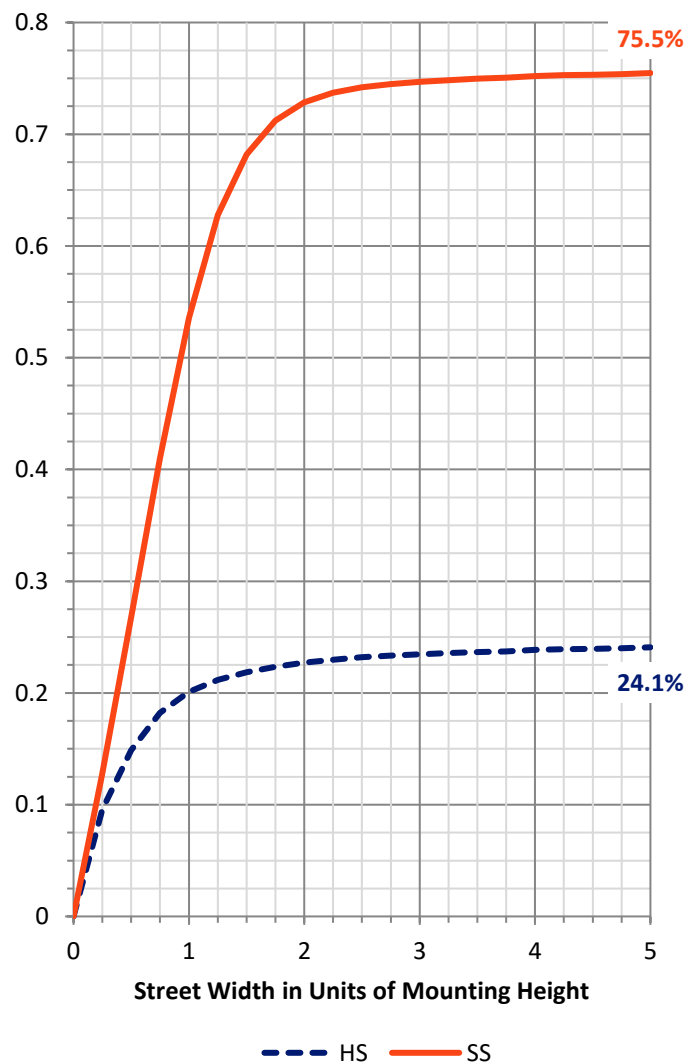
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1802.3   | 0.0    | 1802.3 |
|                    | % Fixture | 24.4     | 0.0    | 24.4   |
| <b>Street Side</b> | Lumens    | 5598.7   | 0.0    | 5598.7 |
|                    | % Fixture | 75.6     | 0.0    | 75.6   |
| <b>Total</b>       | Lumens    | 7401.0   | 0.0    | 7401.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 115.7  | 1.6       |
| 10°-20°   | 355.9  | 4.8       |
| 20°-30°   | 667.9  | 9.0       |
| 30°-40°   | 1027.3 | 13.9      |
| 40°-50°   | 1381.9 | 18.7      |
| 50°-60°   | 1634.2 | 22.1      |
| 60°-70°   | 1511.7 | 20.4      |
| 70°-80°   | 636.0  | 8.6       |
| 80°-90°   | 70.4   | 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°    | 7401.0 | 100.0     |
| 0°-180°   | 7401.0 | 100.0     |

**Coefficient of Utilization**



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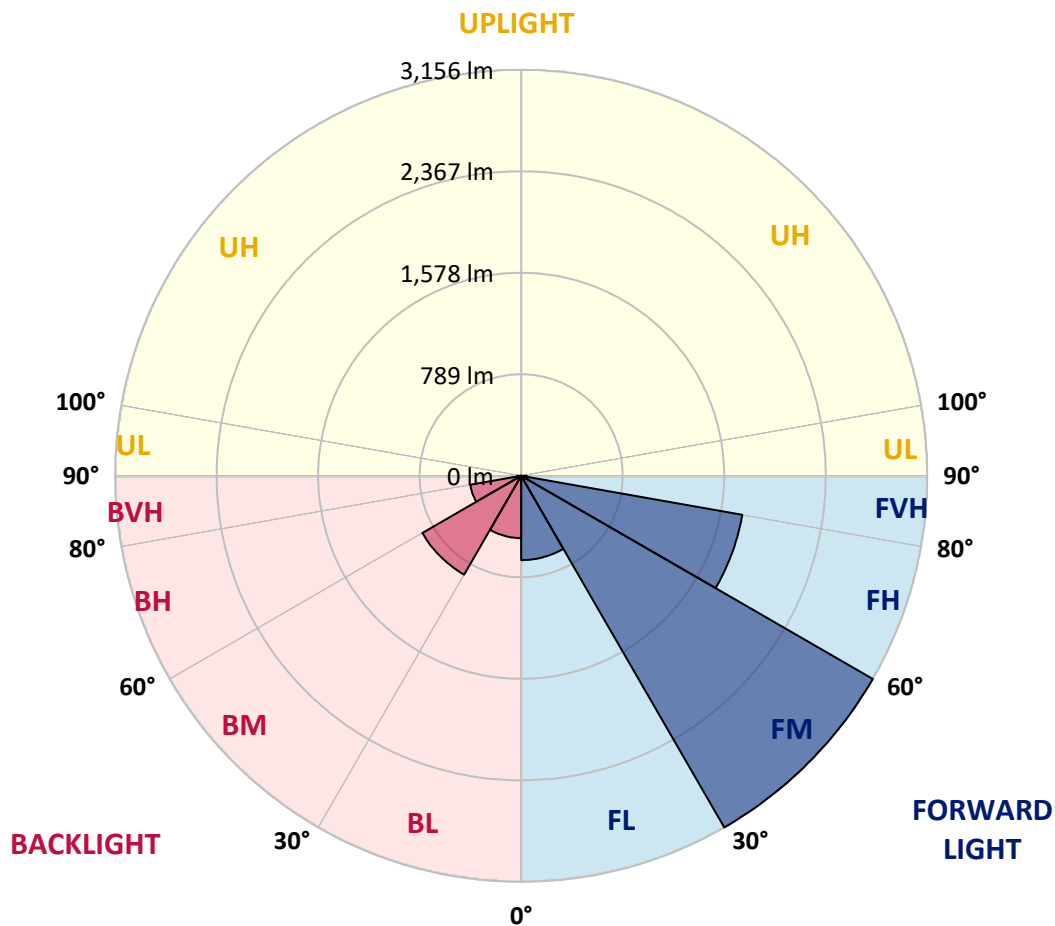
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 655.1  | 8.9       |                         |      |         |
| FM   | (30°-60°)   | 3156.1 | 42.6      |                         |      |         |
| FH   | (60°-80°)   | 1745.4 | 23.6      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 42.1   | 0.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 484.4  | 6.5       | B1/500                  |      |         |
| BM   | (30°-60°)   | 887.3  | 12.0      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 402.3  | 5.4       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 28.3   | 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°    | 1213.3 | 1213.3 | 1213.3 | 1213.3 | 1213.3 | 1213.3 | 1213.3 | 1213.3 | 1213.3 | 1213.3 | 1213.3 |
| 2.5°  | 1209.5 | 1207.6 | 1211.4 | 1217.1 | 1219.9 | 1215.2 | 1213.3 | 1212.3 | 1212.3 | 1209.5 | 1214.2 |
| 5°    | 1152.3 | 1151.4 | 1159.9 | 1170.4 | 1190.4 | 1204.7 | 1223.7 | 1235.2 | 1231.4 | 1225.7 | 1229.5 |
| 7.5°  | 1078.0 | 1076.1 | 1086.6 | 1106.6 | 1134.2 | 1165.7 | 1212.3 | 1248.5 | 1262.8 | 1260.9 | 1259.9 |
| 10°   | 1106.6 | 1104.7 | 1103.8 | 1098.0 | 1107.6 | 1138.0 | 1186.6 | 1250.4 | 1299.0 | 1299.9 | 1300.9 |
| 12.5° | 1205.7 | 1210.4 | 1205.7 | 1187.6 | 1166.6 | 1155.2 | 1183.7 | 1255.2 | 1329.5 | 1335.2 | 1359.0 |
| 15°   | 1340.9 | 1336.1 | 1326.6 | 1305.6 | 1273.3 | 1239.0 | 1218.0 | 1277.1 | 1373.3 | 1378.0 | 1430.4 |
| 17.5° | 1459.9 | 1463.7 | 1458.0 | 1438.0 | 1399.9 | 1355.2 | 1291.4 | 1315.2 | 1419.9 | 1433.3 | 1506.6 |
| 20°   | 1589.4 | 1604.7 | 1597.1 | 1572.3 | 1540.9 | 1474.2 | 1394.2 | 1370.4 | 1471.4 | 1480.9 | 1585.6 |
| 22.5° | 1739.0 | 1755.1 | 1740.9 | 1717.1 | 1691.3 | 1609.4 | 1506.6 | 1438.0 | 1514.2 | 1534.2 | 1661.8 |
| 25°   | 1918.0 | 1933.2 | 1919.9 | 1882.8 | 1850.4 | 1750.4 | 1627.5 | 1514.2 | 1556.1 | 1578.0 | 1723.7 |
| 27.5° | 2059.9 | 2071.3 | 2083.7 | 2061.8 | 2012.3 | 1908.5 | 1753.2 | 1593.3 | 1598.0 | 1620.9 | 1780.9 |
| 30°   | 2186.6 | 2215.1 | 2225.6 | 2228.5 | 2186.6 | 2070.4 | 1881.8 | 1675.2 | 1634.2 | 1658.0 | 1838.0 |
| 32.5° | 2359.9 | 2402.7 | 2385.6 | 2402.7 | 2378.0 | 2222.7 | 2015.1 | 1759.9 | 1680.9 | 1702.8 | 1892.3 |
| 35°   | 2613.2 | 2647.5 | 2602.7 | 2589.4 | 2549.4 | 2377.0 | 2143.7 | 1847.5 | 1742.8 | 1766.6 | 1943.7 |
| 37.5° | 2885.6 | 2924.6 | 2859.9 | 2806.5 | 2730.3 | 2529.4 | 2254.2 | 1962.8 | 1828.5 | 1847.5 | 1991.3 |
| 40°   | 3123.6 | 3156.0 | 3099.8 | 3029.4 | 2901.8 | 2663.7 | 2349.4 | 2043.7 | 1914.2 | 1938.0 | 2046.6 |
| 42.5° | 3343.6 | 3364.6 | 3301.7 | 3234.1 | 3063.6 | 2784.6 | 2452.3 | 2129.4 | 2014.2 | 2037.0 | 2091.3 |
| 45°   | 3566.5 | 3582.7 | 3495.1 | 3398.9 | 3198.9 | 2895.1 | 2565.6 | 2249.4 | 2160.8 | 2191.3 | 2163.7 |
| 47.5° | 3606.5 | 3611.2 | 3596.0 | 3531.2 | 3305.5 | 3000.8 | 2705.6 | 2410.4 | 2384.6 | 2418.0 | 2288.5 |
| 50°   | 3329.3 | 3372.2 | 3466.5 | 3530.3 | 3348.4 | 3089.4 | 2845.6 | 2640.8 | 2693.2 | 2736.0 | 2547.5 |
| 52.5° | 2791.3 | 2832.2 | 3050.3 | 3292.2 | 3245.5 | 3109.4 | 2996.0 | 2933.2 | 3128.4 | 3179.8 | 2899.8 |
| 55°   | 2223.7 | 2259.9 | 2490.3 | 2838.9 | 2913.2 | 3017.9 | 3157.0 | 3306.5 | 3683.6 | 3717.9 | 3286.5 |
| 57.5° | 1831.3 | 1851.3 | 2016.1 | 2351.3 | 2470.3 | 2725.6 | 3243.6 | 3750.3 | 4248.3 | 4300.7 | 3622.7 |
| 60°   | 1501.8 | 1523.7 | 1646.6 | 1922.8 | 2080.8 | 2307.5 | 3175.1 | 4188.4 | 4922.6 | 4922.6 | 4054.1 |
| 62.5° | 1130.4 | 1149.5 | 1263.7 | 1479.9 | 1745.6 | 1953.2 | 2956.0 | 4478.8 | 5431.1 | 5408.3 | 4366.4 |
| 65°   | 776.1  | 791.4  | 874.2  | 1018.0 | 1257.1 | 1664.7 | 2657.0 | 4482.6 | 5768.3 | 5737.8 | 4499.8 |
| 66°   | 651.4  | 664.7  | 735.2  | 851.4  | 1052.3 | 1510.4 | 2551.3 | 4401.7 | 5838.7 | 5795.9 | 4443.6 |
| 67.5° | 514.3  | 523.8  | 570.4  | 639.0  | 771.4  | 1222.8 | 2384.6 | 4172.2 | 5832.1 | 5806.4 | 4300.7 |
| 70°   | 367.6  | 374.3  | 408.6  | 422.8  | 456.2  | 707.6  | 1894.2 | 3654.1 | 5364.5 | 5372.1 | 3738.9 |
| 72.5° | 284.7  | 295.2  | 316.2  | 319.0  | 311.4  | 376.2  | 1149.5 | 3048.4 | 4388.3 | 4385.5 | 2775.1 |
| 75°   | 229.5  | 235.2  | 245.7  | 251.4  | 249.5  | 242.8  | 486.6  | 2274.2 | 3020.8 | 3056.0 | 1554.2 |
| 77.5° | 180.9  | 180.0  | 189.5  | 197.1  | 202.8  | 190.5  | 222.8  | 1333.3 | 1583.7 | 1539.0 | 583.8  |
| 80°   | 133.3  | 133.3  | 146.7  | 149.5  | 158.1  | 160.0  | 148.6  | 514.3  | 543.8  | 494.3  | 151.4  |
| 82.5° | 87.6   | 87.6   | 101.9  | 103.8  | 112.4  | 124.8  | 107.6  | 154.3  | 150.5  | 142.8  | 68.6   |
| 85°   | 47.6   | 45.7   | 50.5   | 57.1   | 61.9   | 73.3   | 64.8   | 77.1   | 79.0   | 78.1   | 45.7   |
| 87.5° | 9.5    | 8.6    | 13.3   | 15.2   | 17.1   | 22.9   | 21.0   | 31.4   | 43.8   | 42.9   | 20.0   |
| 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):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1213.3 | 1213.3 | 1213.3 | 1213.3 | 1213.3 | 1213.3 | 1213.3 | 1213.3 | 1213.3 | 1213.3 | 1213.3 |
| 2.5°  | 1220.9 | 1219.9 | 1230.4 | 1242.8 | 1257.1 | 1265.6 | 1269.5 | 1276.1 | 1271.4 | 1273.3 | 1279.0 |
| 5°    | 1239.0 | 1241.8 | 1257.1 | 1273.3 | 1279.9 | 1275.2 | 1264.7 | 1260.9 | 1252.3 | 1250.4 | 1248.5 |
| 7.5°  | 1265.6 | 1270.4 | 1285.6 | 1289.5 | 1269.5 | 1236.1 | 1212.3 | 1199.0 | 1184.7 | 1180.9 | 1179.0 |
| 10°   | 1309.5 | 1312.3 | 1316.1 | 1277.1 | 1227.6 | 1182.8 | 1153.3 | 1140.9 | 1131.4 | 1123.8 | 1125.7 |
| 12.5° | 1364.7 | 1362.8 | 1333.3 | 1252.3 | 1181.8 | 1136.1 | 1116.1 | 1108.5 | 1101.8 | 1097.1 | 1096.1 |
| 15°   | 1434.2 | 1420.9 | 1336.1 | 1218.0 | 1139.0 | 1100.9 | 1086.6 | 1083.8 | 1076.1 | 1076.1 | 1075.2 |
| 17.5° | 1504.7 | 1470.4 | 1334.2 | 1181.8 | 1098.0 | 1077.1 | 1068.5 | 1066.6 | 1064.7 | 1063.8 | 1066.6 |
| 20°   | 1575.2 | 1514.2 | 1319.0 | 1137.1 | 1069.5 | 1057.1 | 1055.2 | 1056.1 | 1054.2 | 1057.1 | 1055.2 |
| 22.5° | 1637.1 | 1542.8 | 1290.4 | 1089.5 | 1049.5 | 1048.5 | 1043.8 | 1045.7 | 1052.3 | 1053.3 | 1056.1 |
| 25°   | 1684.7 | 1553.3 | 1248.5 | 1045.7 | 1035.2 | 1033.3 | 1039.0 | 1046.6 | 1052.3 | 1053.3 | 1058.0 |
| 27.5° | 1723.7 | 1547.5 | 1196.1 | 1011.4 | 1010.4 | 1020.9 | 1038.0 | 1040.9 | 1041.9 | 1041.9 | 1038.0 |
| 30°   | 1753.2 | 1535.2 | 1129.5 | 973.3  | 978.0  | 1003.8 | 1019.9 | 1019.9 | 1012.3 | 1010.4 | 1016.1 |
| 32.5° | 1759.9 | 1519.0 | 1057.1 | 934.2  | 941.9  | 972.3  | 992.3  | 985.7  | 977.1  | 977.1  | 980.9  |
| 35°   | 1765.6 | 1497.1 | 999.0  | 880.9  | 892.3  | 928.5  | 947.6  | 934.2  | 924.7  | 921.9  | 920.9  |
| 37.5° | 1763.7 | 1488.5 | 946.6  | 813.3  | 828.5  | 863.8  | 876.1  | 863.8  | 849.5  | 842.8  | 851.4  |
| 40°   | 1765.6 | 1482.8 | 880.9  | 739.0  | 754.2  | 775.2  | 791.4  | 781.9  | 768.5  | 751.4  | 760.0  |
| 42.5° | 1777.1 | 1490.4 | 808.5  | 666.6  | 666.6  | 678.1  | 705.7  | 699.0  | 666.6  | 660.0  | 667.6  |
| 45°   | 1838.0 | 1531.3 | 736.2  | 594.3  | 583.8  | 591.4  | 620.0  | 591.4  | 571.4  | 571.4  | 578.1  |
| 47.5° | 1985.6 | 1607.5 | 672.3  | 530.4  | 505.7  | 520.9  | 528.5  | 501.9  | 486.6  | 482.8  | 489.5  |
| 50°   | 2286.5 | 1759.9 | 634.3  | 478.1  | 447.6  | 459.0  | 454.3  | 453.3  | 438.1  | 440.0  | 443.8  |
| 52.5° | 2743.7 | 2057.0 | 622.8  | 452.4  | 414.3  | 417.1  | 412.4  | 414.3  | 411.4  | 420.9  | 423.8  |
| 55°   | 3241.7 | 2370.4 | 637.1  | 456.2  | 391.4  | 371.4  | 373.3  | 382.8  | 394.3  | 409.5  | 412.4  |
| 57.5° | 3614.1 | 2527.5 | 674.3  | 481.9  | 362.8  | 332.4  | 337.1  | 355.2  | 377.1  | 389.5  | 396.2  |
| 60°   | 3891.2 | 2508.4 | 728.5  | 488.5  | 328.6  | 297.1  | 305.7  | 332.4  | 351.4  | 361.9  | 368.6  |
| 62.5° | 3981.7 | 2389.4 | 741.9  | 440.0  | 283.8  | 263.8  | 284.7  | 312.4  | 320.9  | 332.4  | 337.1  |
| 65°   | 3907.4 | 2220.8 | 644.7  | 357.1  | 249.5  | 239.0  | 269.5  | 290.5  | 301.9  | 307.6  | 308.6  |
| 66°   | 3819.8 | 2119.9 | 592.4  | 324.7  | 237.1  | 231.4  | 263.8  | 280.9  | 292.4  | 291.4  | 292.4  |
| 67.5° | 3627.4 | 1908.5 | 507.6  | 279.0  | 219.0  | 220.0  | 254.3  | 265.7  | 269.5  | 266.7  | 266.7  |
| 70°   | 2973.2 | 1343.7 | 363.8  | 211.4  | 192.4  | 205.7  | 228.6  | 231.4  | 240.0  | 236.2  | 236.2  |
| 72.5° | 1833.2 | 660.0  | 243.8  | 161.9  | 171.4  | 192.4  | 191.4  | 200.9  | 220.9  | 226.7  | 230.5  |
| 75°   | 900.9  | 267.6  | 160.9  | 137.1  | 153.3  | 160.9  | 159.0  | 182.8  | 211.4  | 236.2  | 244.7  |
| 77.5° | 341.9  | 133.3  | 112.4  | 120.0  | 123.8  | 120.9  | 126.7  | 165.7  | 211.4  | 256.2  | 264.7  |
| 80°   | 105.7  | 92.4   | 88.6   | 99.0   | 93.3   | 88.6   | 95.2   | 137.1  | 179.0  | 194.3  | 194.3  |
| 82.5° | 63.8   | 72.4   | 68.6   | 67.6   | 62.9   | 63.8   | 68.6   | 98.1   | 138.1  | 144.8  | 144.8  |
| 85°   | 44.8   | 47.6   | 39.0   | 37.1   | 36.2   | 35.2   | 35.2   | 57.1   | 81.9   | 80.9   | 83.8   |
| 87.5° | 17.1   | 19.0   | 14.3   | 14.3   | 13.3   | 9.5    | 7.6    | 9.5    | 9.5    | 6.7    | 4.8    |
| 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)