

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: P1210697

Luminaire Tested: **ARCH3-40-750-U-T2RE**

Issue Date: 11/5/2025

### Test Information

Test Method: LM-79-08  
Report Number: P1210697  
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: ARCH3-40-750-U-T2RE  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 5000K, 345mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY  
ILLUMINANCE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 7409 lumens  
Efficiency: N/A  
Efficacy: 169.9 lumens/watt  
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
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

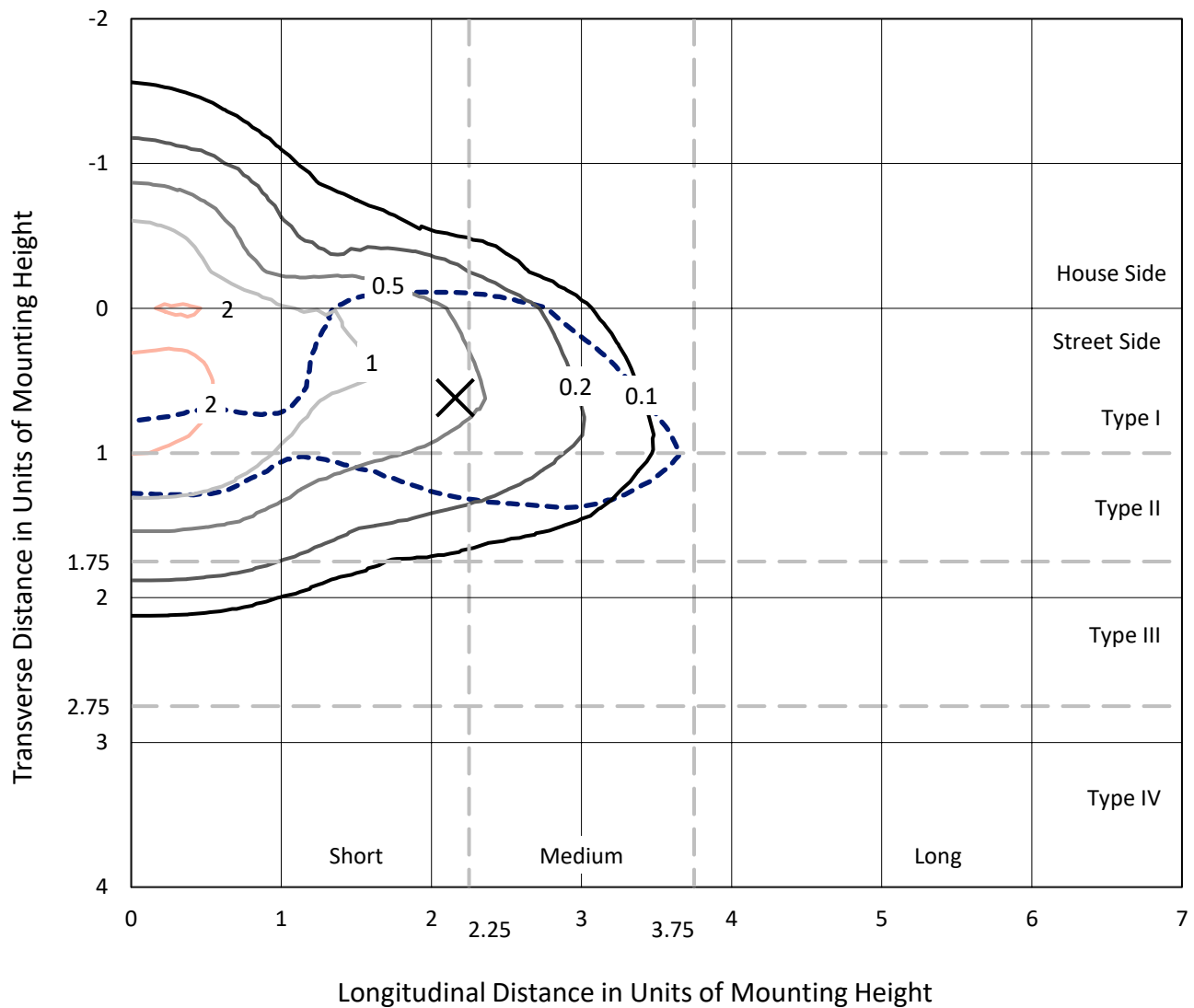


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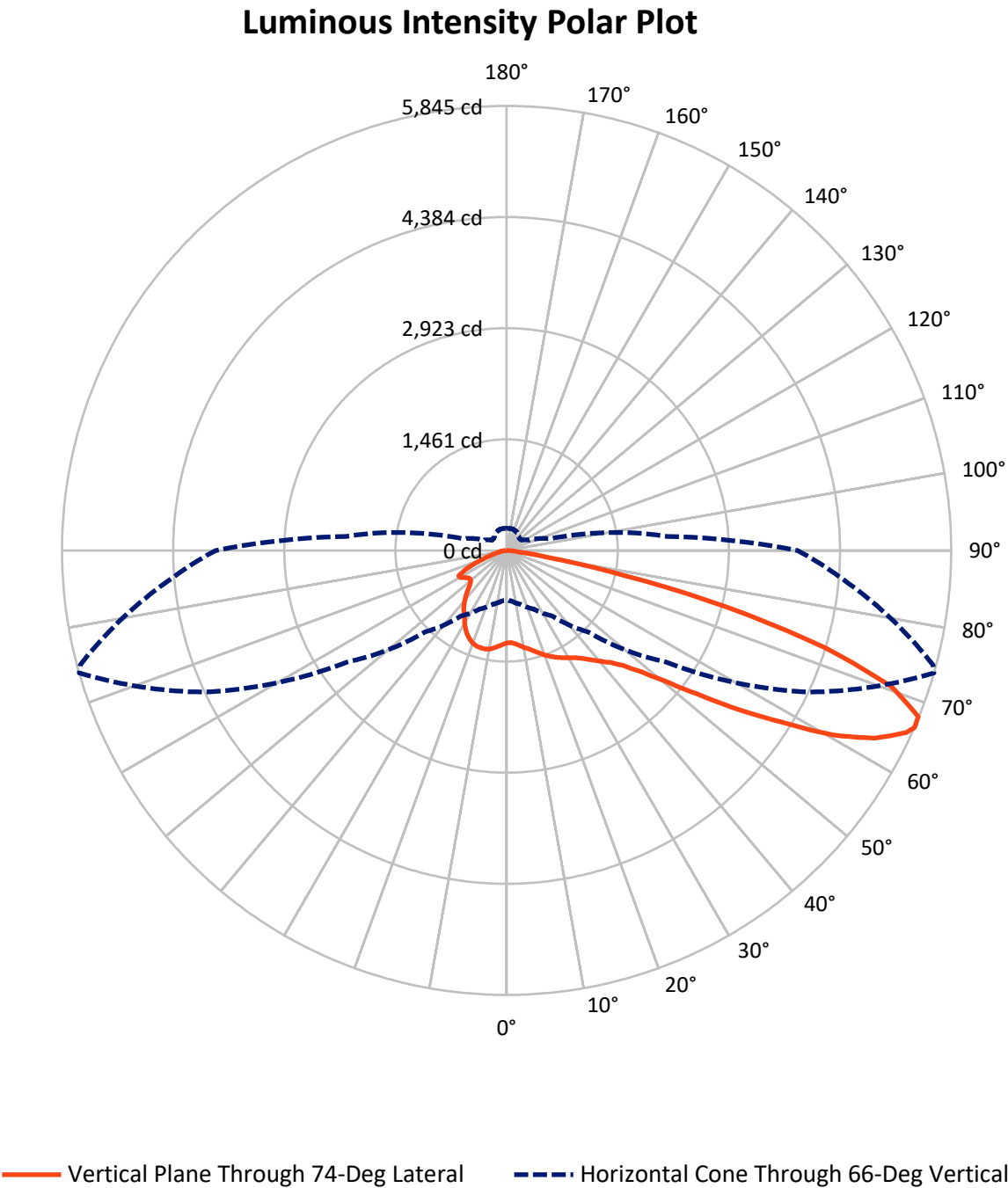
## Iso-Footcandle Lines of Horizontal Illumination

✕ 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    | 1804.3   | 0.0    | 1804.3 |
|                    | % Fixture | 24.4     | 0.0    | 24.4   |
| <b>Street Side</b> | Lumens    | 5604.7   | 0.0    | 5604.7 |
|                    | % Fixture | 75.6     | 0.0    | 75.6   |
| <b>Total</b>       | Lumens    | 7409.0   | 0.0    | 7409.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 115.9  | 1.6       |
| 10°-20°   | 356.3  | 4.8       |
| 20°-30°   | 668.6  | 9.0       |
| 30°-40°   | 1028.4 | 13.9      |
| 40°-50°   | 1383.3 | 18.7      |
| 50°-60°   | 1636.0 | 22.1      |
| 60°-70°   | 1513.4 | 20.4      |
| 70°-80°   | 636.7  | 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°    | 7409.0 | 100.0     |
| 0°-180°   | 7409.0 | 100.0     |

**Coefficient of Utilization**



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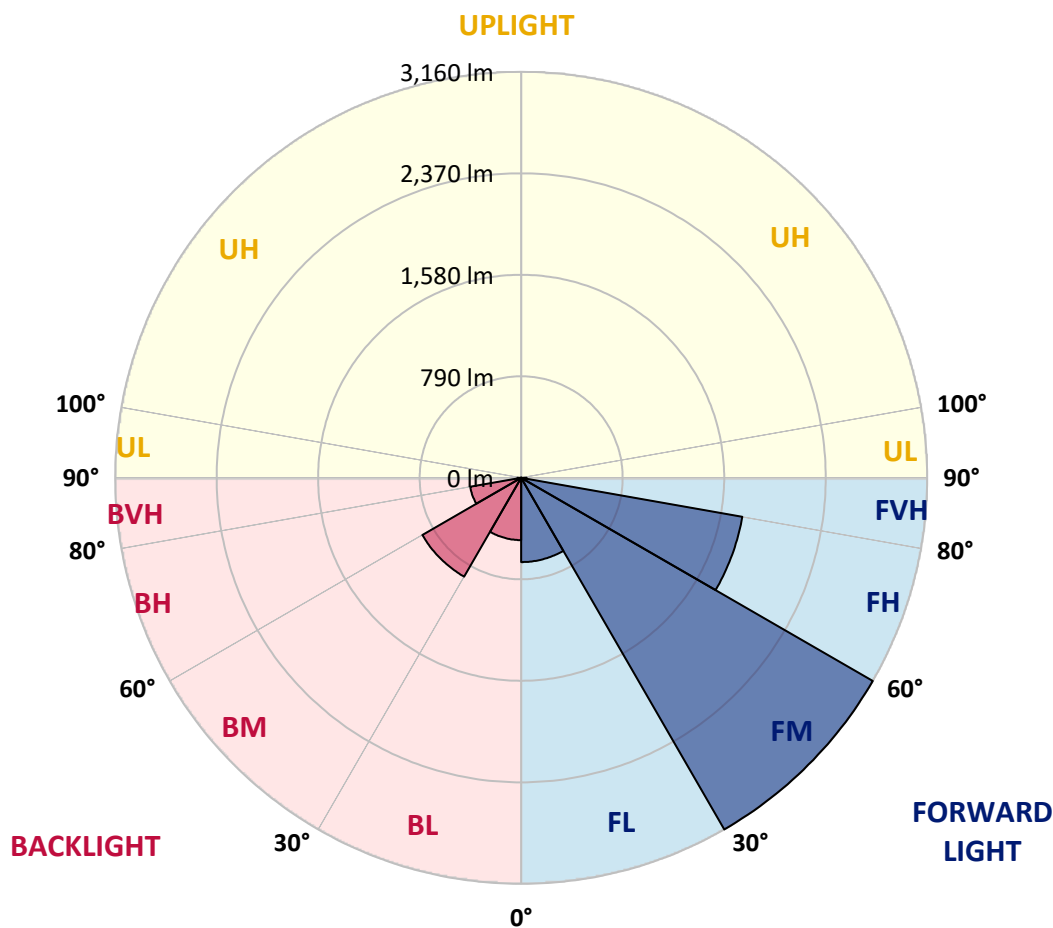
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 655.8  | 8.9       |                         |      |         |
| FM   | (30°-60°)   | 3159.5 | 42.6      |                         |      |         |
| FH   | (60°-80°)   | 1747.2 | 23.6      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 42.2   | 0.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 485.0  | 6.5       | B1/500                  |      |         |
| BM   | (30°-60°)   | 888.3  | 12.0      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 402.8  | 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°    | 1214.6 | 1214.6 | 1214.6 | 1214.6 | 1214.6 | 1214.6 | 1214.6 | 1214.6 | 1214.6 | 1214.6 | 1214.6 |
| 2.5°  | 1210.8 | 1208.9 | 1212.7 | 1218.4 | 1221.3 | 1216.5 | 1214.6 | 1213.6 | 1213.6 | 1210.8 | 1215.5 |
| 5°    | 1153.6 | 1152.6 | 1161.2 | 1171.7 | 1191.7 | 1206.0 | 1225.1 | 1236.5 | 1232.7 | 1227.0 | 1230.8 |
| 7.5°  | 1079.2 | 1077.3 | 1087.8 | 1107.8 | 1135.5 | 1166.9 | 1213.6 | 1249.9 | 1264.2 | 1262.2 | 1261.3 |
| 10°   | 1107.8 | 1105.9 | 1104.9 | 1099.2 | 1108.8 | 1139.3 | 1187.9 | 1251.8 | 1300.4 | 1301.3 | 1302.3 |
| 12.5° | 1207.0 | 1211.7 | 1207.0 | 1188.8 | 1167.9 | 1156.4 | 1185.0 | 1256.5 | 1330.9 | 1336.6 | 1360.4 |
| 15°   | 1342.3 | 1337.6 | 1328.0 | 1307.1 | 1274.6 | 1240.3 | 1219.3 | 1278.5 | 1374.7 | 1379.5 | 1431.9 |
| 17.5° | 1461.5 | 1465.3 | 1459.6 | 1439.6 | 1401.4 | 1356.6 | 1292.8 | 1316.6 | 1421.5 | 1434.8 | 1508.2 |
| 20°   | 1591.2 | 1606.4 | 1598.8 | 1574.0 | 1542.5 | 1475.8 | 1395.7 | 1371.9 | 1472.9 | 1482.5 | 1587.3 |
| 22.5° | 1740.8 | 1757.0 | 1742.7 | 1718.9 | 1693.2 | 1611.2 | 1508.2 | 1439.6 | 1515.8 | 1535.9 | 1663.6 |
| 25°   | 1920.1 | 1935.3 | 1922.0 | 1884.8 | 1852.4 | 1752.3 | 1629.3 | 1515.8 | 1557.8 | 1579.7 | 1725.6 |
| 27.5° | 2062.1 | 2073.6 | 2086.0 | 2064.0 | 2014.5 | 1910.5 | 1755.1 | 1595.0 | 1599.7 | 1622.6 | 1782.8 |
| 30°   | 2188.9 | 2217.5 | 2228.0 | 2230.9 | 2188.9 | 2072.6 | 1883.8 | 1677.0 | 1636.0 | 1659.8 | 1840.0 |
| 32.5° | 2362.4 | 2405.3 | 2388.2 | 2405.3 | 2380.5 | 2225.1 | 2017.3 | 1761.8 | 1682.7 | 1704.6 | 1894.3 |
| 35°   | 2616.0 | 2650.3 | 2605.5 | 2592.2 | 2552.1 | 2379.6 | 2146.0 | 1849.5 | 1744.6 | 1768.5 | 1945.8 |
| 37.5° | 2888.7 | 2927.8 | 2862.9 | 2809.6 | 2733.3 | 2532.1 | 2256.6 | 1964.9 | 1830.5 | 1849.5 | 1993.5 |
| 40°   | 3127.0 | 3159.4 | 3103.2 | 3032.6 | 2904.9 | 2666.5 | 2351.9 | 2045.9 | 1916.3 | 1940.1 | 2048.8 |
| 42.5° | 3347.2 | 3368.2 | 3305.3 | 3237.6 | 3067.0 | 2787.6 | 2454.9 | 2131.7 | 2016.4 | 2039.2 | 2093.6 |
| 45°   | 3570.3 | 3586.5 | 3498.8 | 3402.5 | 3202.3 | 2898.2 | 2568.4 | 2251.8 | 2163.2 | 2193.7 | 2166.0 |
| 47.5° | 3610.4 | 3615.1 | 3599.9 | 3535.1 | 3309.1 | 3004.0 | 2708.5 | 2413.0 | 2387.2 | 2420.6 | 2290.9 |
| 50°   | 3332.9 | 3375.8 | 3470.2 | 3534.1 | 3352.0 | 3092.7 | 2848.6 | 2643.7 | 2696.1 | 2739.0 | 2550.2 |
| 52.5° | 2794.3 | 2835.3 | 3053.6 | 3295.8 | 3249.1 | 3112.7 | 2999.3 | 2936.4 | 3131.8 | 3183.3 | 2903.0 |
| 55°   | 2226.1 | 2262.3 | 2493.0 | 2842.0 | 2916.3 | 3021.2 | 3160.4 | 3310.1 | 3687.6 | 3721.9 | 3290.0 |
| 57.5° | 1833.3 | 1853.3 | 2018.3 | 2353.8 | 2473.0 | 2728.5 | 3247.1 | 3754.3 | 4252.9 | 4305.4 | 3626.6 |
| 60°   | 1503.4 | 1525.4 | 1648.4 | 1924.8 | 2083.1 | 2310.0 | 3178.5 | 4192.9 | 4927.9 | 4927.9 | 4058.5 |
| 62.5° | 1131.6 | 1150.7 | 1265.1 | 1481.5 | 1747.5 | 1955.3 | 2959.2 | 4483.7 | 5437.0 | 5414.1 | 4371.2 |
| 65°   | 777.0  | 792.2  | 875.2  | 1019.1 | 1258.4 | 1666.5 | 2659.9 | 4487.5 | 5774.5 | 5744.0 | 4504.6 |
| 66°   | 652.1  | 665.4  | 736.0  | 852.3  | 1053.5 | 1512.0 | 2554.1 | 4406.4 | 5845.1 | 5802.2 | 4448.4 |
| 67.5° | 514.8  | 524.3  | 571.1  | 639.7  | 772.2  | 1224.1 | 2387.2 | 4176.7 | 5838.4 | 5812.6 | 4305.4 |
| 70°   | 368.0  | 374.7  | 409.0  | 423.3  | 456.7  | 708.3  | 1896.2 | 3658.0 | 5370.3 | 5377.9 | 3742.9 |
| 72.5° | 285.1  | 295.5  | 316.5  | 319.4  | 311.7  | 376.6  | 1150.7 | 3051.7 | 4393.1 | 4390.2 | 2778.1 |
| 75°   | 229.8  | 235.5  | 246.0  | 251.7  | 249.8  | 243.1  | 487.2  | 2276.6 | 3024.1 | 3059.3 | 1555.9 |
| 77.5° | 181.1  | 180.2  | 189.7  | 197.3  | 203.1  | 190.7  | 223.1  | 1334.7 | 1585.4 | 1540.6 | 584.4  |
| 80°   | 133.5  | 133.5  | 146.8  | 149.7  | 158.3  | 160.2  | 148.7  | 514.8  | 544.4  | 494.8  | 151.6  |
| 82.5° | 87.7   | 87.7   | 102.0  | 103.9  | 112.5  | 124.9  | 107.7  | 154.4  | 150.6  | 143.0  | 68.6   |
| 85°   | 47.7   | 45.8   | 50.5   | 57.2   | 62.0   | 73.4   | 64.8   | 77.2   | 79.1   | 78.2   | 45.8   |
| 87.5° | 9.5    | 8.6    | 13.3   | 15.3   | 17.2   | 22.9   | 21.0   | 31.5   | 43.9   | 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°    | 1214.6 | 1214.6 | 1214.6 | 1214.6 | 1214.6 | 1214.6 | 1214.6 | 1214.6 | 1214.6 | 1214.6 | 1214.6 |
| 2.5°  | 1222.2 | 1221.3 | 1231.7 | 1244.1 | 1258.4 | 1267.0 | 1270.8 | 1277.5 | 1272.7 | 1274.6 | 1280.4 |
| 5°    | 1240.3 | 1243.2 | 1258.4 | 1274.6 | 1281.3 | 1276.5 | 1266.1 | 1262.2 | 1253.7 | 1251.8 | 1249.9 |
| 7.5°  | 1267.0 | 1271.8 | 1287.0 | 1290.9 | 1270.8 | 1237.5 | 1213.6 | 1200.3 | 1186.0 | 1182.2 | 1180.3 |
| 10°   | 1310.9 | 1313.7 | 1317.5 | 1278.5 | 1228.9 | 1184.1 | 1154.5 | 1142.1 | 1132.6 | 1125.0 | 1126.9 |
| 12.5° | 1366.2 | 1364.3 | 1334.7 | 1253.7 | 1183.1 | 1137.4 | 1117.3 | 1109.7 | 1103.0 | 1098.3 | 1097.3 |
| 15°   | 1435.8 | 1422.4 | 1337.6 | 1219.3 | 1140.2 | 1102.1 | 1087.8 | 1084.9 | 1077.3 | 1077.3 | 1076.3 |
| 17.5° | 1506.3 | 1472.0 | 1335.7 | 1183.1 | 1099.2 | 1078.3 | 1069.7 | 1067.8 | 1065.9 | 1064.9 | 1067.8 |
| 20°   | 1576.9 | 1515.8 | 1320.4 | 1138.3 | 1070.6 | 1058.2 | 1056.3 | 1057.3 | 1055.4 | 1058.2 | 1056.3 |
| 22.5° | 1638.8 | 1544.4 | 1291.8 | 1090.6 | 1050.6 | 1049.7 | 1044.9 | 1046.8 | 1053.5 | 1054.4 | 1057.3 |
| 25°   | 1686.5 | 1554.9 | 1249.9 | 1046.8 | 1036.3 | 1034.4 | 1040.1 | 1047.7 | 1053.5 | 1054.4 | 1059.2 |
| 27.5° | 1725.6 | 1549.2 | 1197.4 | 1012.5 | 1011.5 | 1022.0 | 1039.2 | 1042.0 | 1043.0 | 1043.0 | 1039.2 |
| 30°   | 1755.1 | 1536.8 | 1130.7 | 974.3  | 979.1  | 1004.8 | 1021.0 | 1021.0 | 1013.4 | 1011.5 | 1017.2 |
| 32.5° | 1761.8 | 1520.6 | 1058.2 | 935.2  | 942.9  | 973.4  | 993.4  | 986.7  | 978.1  | 978.1  | 982.0  |
| 35°   | 1767.5 | 1498.7 | 1000.1 | 881.9  | 893.3  | 929.5  | 948.6  | 935.2  | 925.7  | 922.9  | 921.9  |
| 37.5° | 1765.6 | 1490.1 | 947.6  | 814.2  | 829.4  | 864.7  | 877.1  | 864.7  | 850.4  | 843.7  | 852.3  |
| 40°   | 1767.5 | 1484.4 | 881.9  | 739.8  | 755.1  | 776.0  | 792.2  | 782.7  | 769.4  | 752.2  | 760.8  |
| 42.5° | 1779.0 | 1492.0 | 809.4  | 667.4  | 667.4  | 678.8  | 706.4  | 699.8  | 667.4  | 660.7  | 668.3  |
| 45°   | 1840.0 | 1533.0 | 736.9  | 594.9  | 584.4  | 592.0  | 620.6  | 592.0  | 572.0  | 572.0  | 578.7  |
| 47.5° | 1987.8 | 1609.3 | 673.1  | 531.0  | 506.2  | 521.5  | 529.1  | 502.4  | 487.2  | 483.4  | 490.0  |
| 50°   | 2289.0 | 1761.8 | 634.9  | 478.6  | 448.1  | 459.5  | 454.8  | 453.8  | 438.5  | 440.5  | 444.3  |
| 52.5° | 2746.6 | 2059.3 | 623.5  | 452.8  | 414.7  | 417.6  | 412.8  | 414.7  | 411.9  | 421.4  | 424.2  |
| 55°   | 3245.2 | 2372.9 | 637.8  | 456.7  | 391.8  | 371.8  | 373.7  | 383.3  | 394.7  | 409.9  | 412.8  |
| 57.5° | 3618.0 | 2530.2 | 675.0  | 482.4  | 363.2  | 332.7  | 337.5  | 355.6  | 377.5  | 389.9  | 396.6  |
| 60°   | 3895.4 | 2511.2 | 729.3  | 489.1  | 328.9  | 297.4  | 306.0  | 332.7  | 351.8  | 362.3  | 369.0  |
| 62.5° | 3986.0 | 2392.0 | 742.7  | 440.5  | 284.1  | 264.1  | 285.1  | 312.7  | 321.3  | 332.7  | 337.5  |
| 65°   | 3911.6 | 2223.2 | 645.4  | 357.5  | 249.8  | 239.3  | 269.8  | 290.8  | 302.2  | 307.9  | 308.9  |
| 66°   | 3823.9 | 2122.2 | 593.0  | 325.1  | 237.4  | 231.7  | 264.1  | 281.2  | 292.7  | 291.7  | 292.7  |
| 67.5° | 3631.4 | 1910.5 | 508.1  | 279.3  | 219.3  | 220.2  | 254.5  | 266.0  | 269.8  | 266.9  | 266.9  |
| 70°   | 2976.4 | 1345.2 | 364.2  | 211.6  | 192.6  | 205.9  | 228.8  | 231.7  | 240.2  | 236.4  | 236.4  |
| 72.5° | 1835.2 | 660.7  | 244.1  | 162.1  | 171.6  | 192.6  | 191.6  | 201.2  | 221.2  | 226.9  | 230.7  |
| 75°   | 901.9  | 267.9  | 161.1  | 137.3  | 153.5  | 161.1  | 159.2  | 183.0  | 211.6  | 236.4  | 245.0  |
| 77.5° | 342.3  | 133.5  | 112.5  | 120.1  | 123.9  | 121.1  | 126.8  | 165.9  | 211.6  | 256.5  | 265.0  |
| 80°   | 105.8  | 92.5   | 88.7   | 99.1   | 93.4   | 88.7   | 95.3   | 137.3  | 179.2  | 194.5  | 194.5  |
| 82.5° | 63.9   | 72.5   | 68.6   | 67.7   | 62.9   | 63.9   | 68.6   | 98.2   | 138.2  | 144.9  | 144.9  |
| 85°   | 44.8   | 47.7   | 39.1   | 37.2   | 36.2   | 35.3   | 35.3   | 57.2   | 82.0   | 81.0   | 83.9   |
| 87.5° | 17.2   | 19.1   | 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)