

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: P1210724

Luminaire Tested: **ARCH3-50-740-U-T2RE-HSS**

Issue Date: 11/5/2025

### Test Information

Test Method: LM-79-08  
Report Number: P1210724  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/5/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH3-50-740-U-T2RE-HSS  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 4000K, 425mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY  
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 6489 lumens  
Efficiency: N/A  
Efficacy: 121.1 lumens/watt  
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 53.6  
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

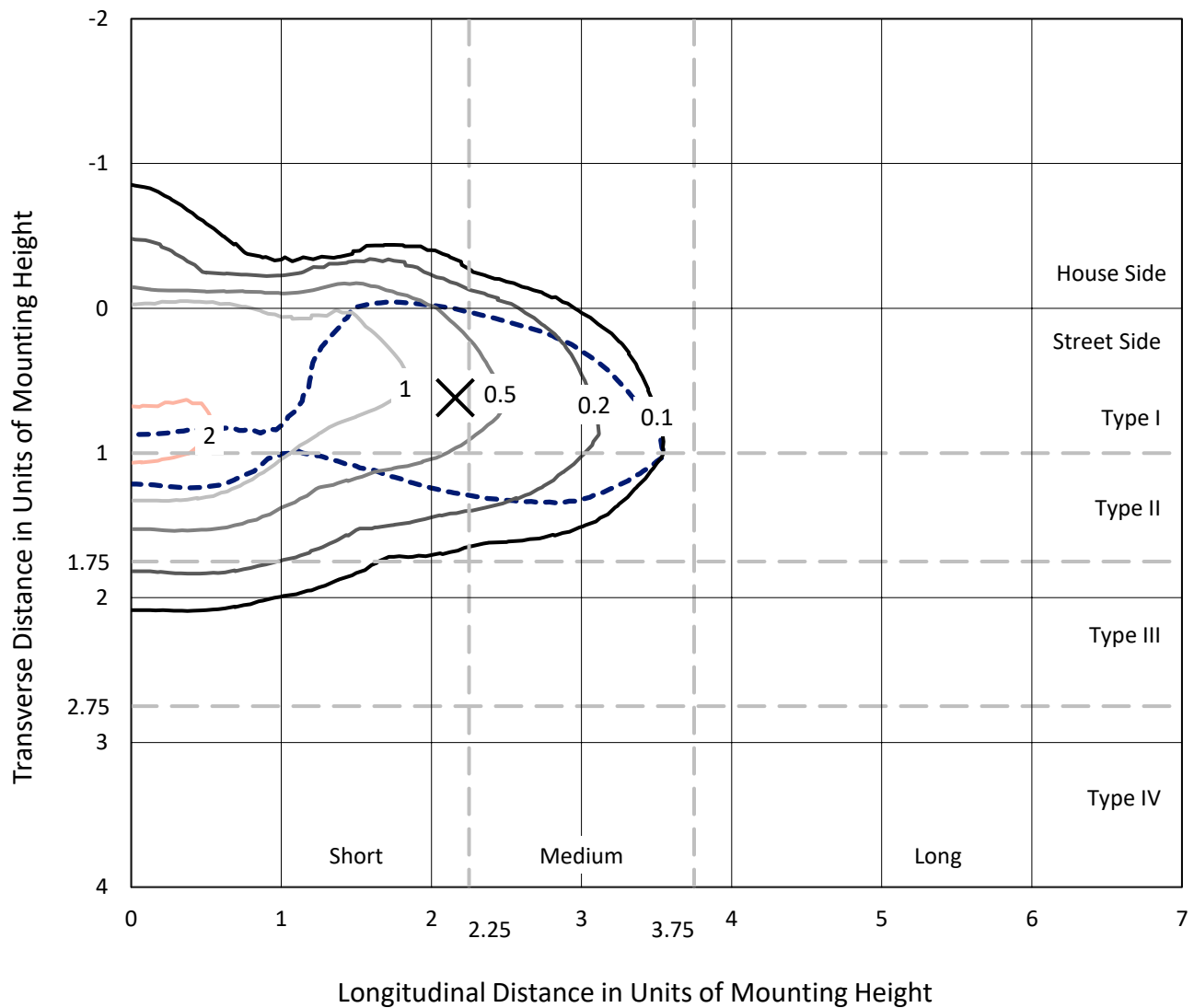


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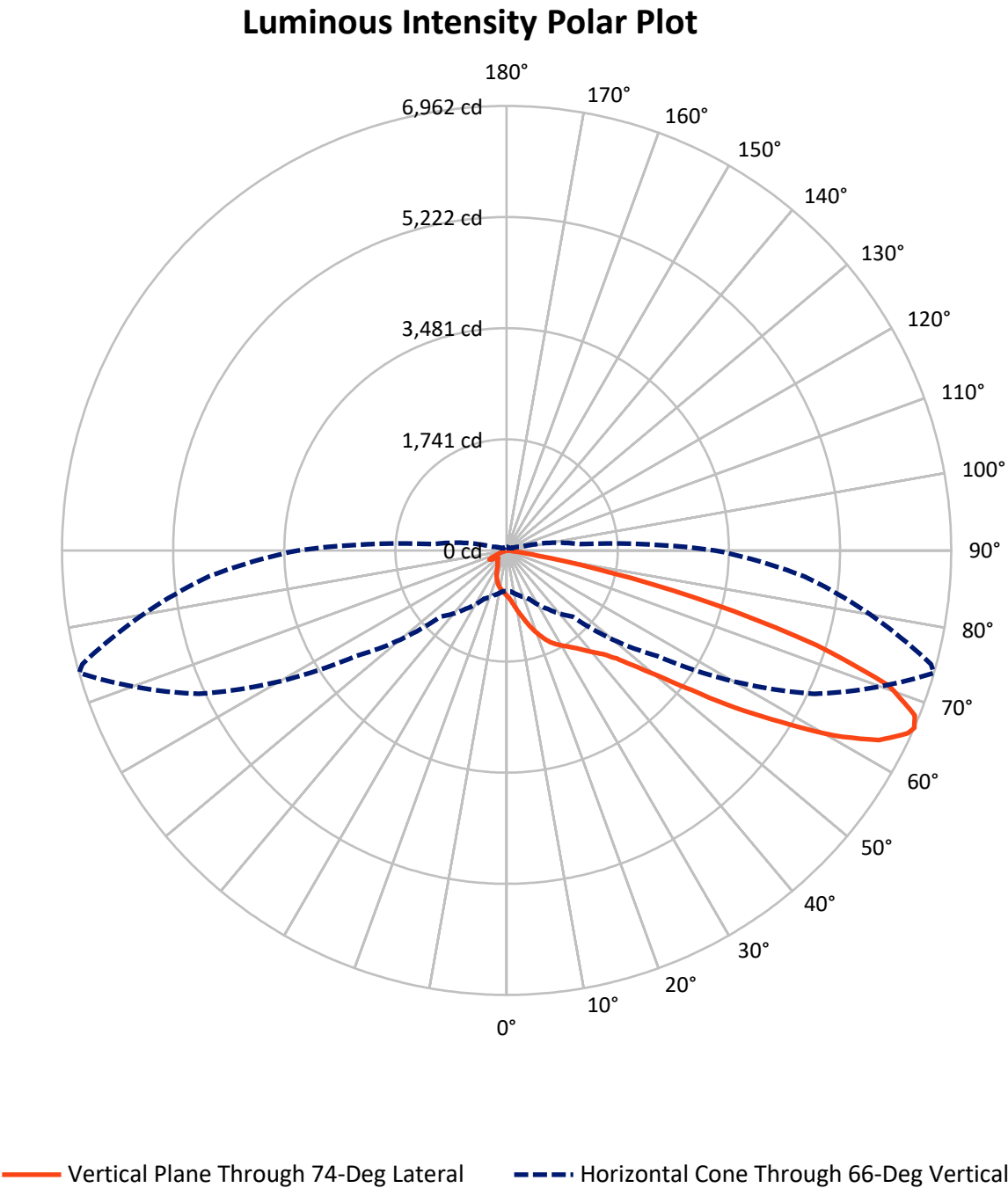
## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc  
Type II - Short - N/A

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 636.1    | 0.0    | 636.1  |
|                    | % Fixture | 9.8      | 0.0    | 9.8    |
| <b>Street Side</b> | Lumens    | 5852.9   | 0.0    | 5852.9 |
|                    | % Fixture | 90.2     | 0.0    | 90.2   |
| <b>Total</b>       | Lumens    | 6489.0   | 0.0    | 6489.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 69.1   | 1.1       |
| 10°-20°   | 221.6  | 3.4       |
| 20°-30°   | 423.0  | 6.5       |
| 30°-40°   | 741.4  | 11.4      |
| 40°-50°   | 1271.3 | 19.6      |
| 50°-60°   | 1653.4 | 25.5      |
| 60°-70°   | 1496.8 | 23.1      |
| 70°-80°   | 577.5  | 8.9       |
| 80°-90°   | 34.8   | 0.5       |
| 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°    | 6489.0 | 100.0     |
| 0°-180°   | 6489.0 | 100.0     |

**Coefficient of Utilization**



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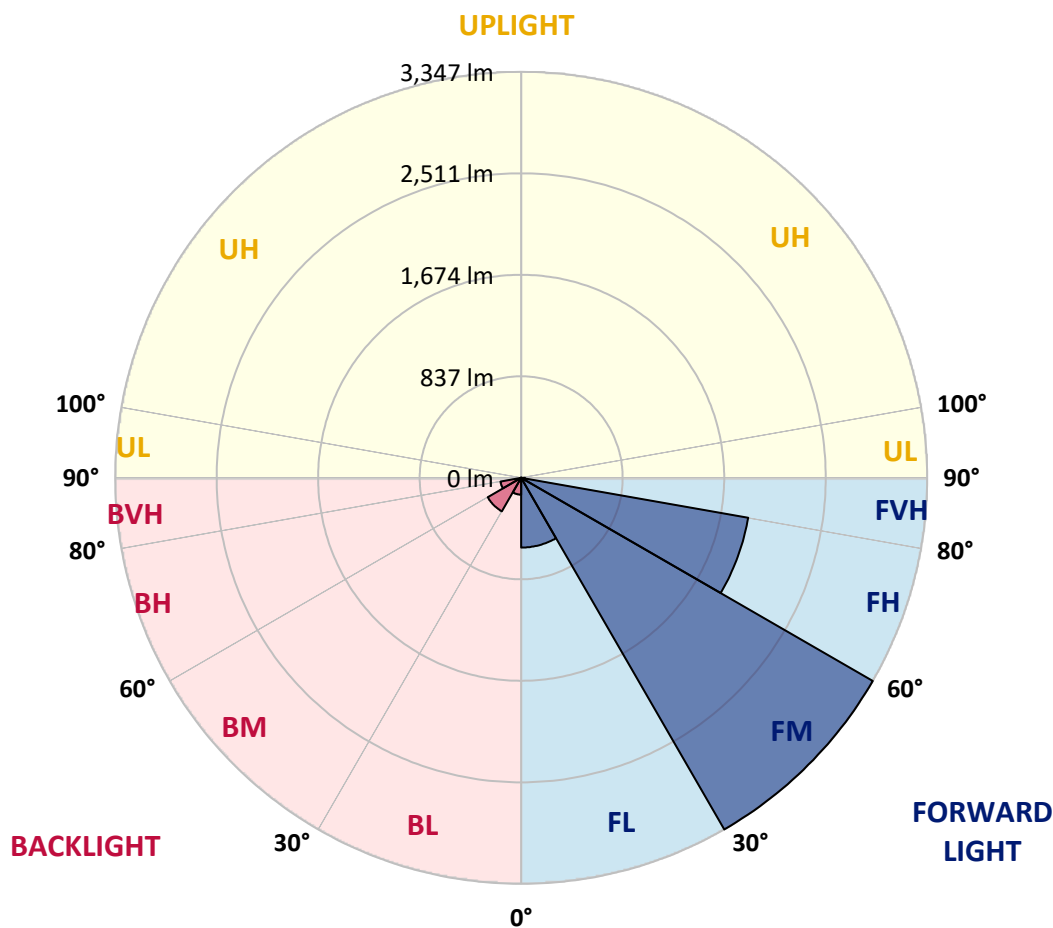
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 575.0  | 8.9       |                         |      |         |
| FM   | (30°-60°)   | 3347.4 | 51.6      |                         |      |         |
| FH   | (60°-80°)   | 1900.4 | 29.3      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 30.1   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 138.8  | 2.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 318.8  | 4.9       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 173.9  | 2.7       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 4.7    | 0.1       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 74°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 708.3  | 708.3  | 708.3  | 708.3  | 708.3  | 708.3  | 708.3  | 708.3  | 708.3  | 708.3  | 708.3  |
| 2.5°  | 850.5  | 843.5  | 830.7  | 829.5  | 819.0  | 806.2  | 784.1  | 760.8  | 744.4  | 742.1  | 722.3  |
| 5°    | 1018.2 | 1014.7 | 1001.9 | 993.8  | 974.0  | 943.7  | 892.4  | 841.1  | 798.0  | 793.4  | 749.1  |
| 7.5°  | 1062.5 | 1064.8 | 1067.2 | 1075.3 | 1068.3 | 1054.3 | 1015.9 | 943.7  | 876.1  | 865.6  | 788.7  |
| 10°   | 1069.5 | 1067.2 | 1067.2 | 1077.6 | 1097.4 | 1117.3 | 1112.6 | 1050.8 | 963.5  | 950.7  | 843.5  |
| 12.5° | 1145.2 | 1148.7 | 1140.6 | 1135.9 | 1132.4 | 1142.9 | 1177.8 | 1151.0 | 1055.5 | 1045.0 | 909.9  |
| 15°   | 1243.1 | 1241.9 | 1230.3 | 1230.3 | 1219.8 | 1202.3 | 1224.4 | 1244.2 | 1166.2 | 1153.4 | 985.6  |
| 17.5° | 1314.1 | 1318.8 | 1317.6 | 1324.6 | 1321.1 | 1297.8 | 1286.2 | 1327.0 | 1280.4 | 1264.0 | 1071.8 |
| 20°   | 1371.2 | 1384.0 | 1388.7 | 1410.8 | 1421.3 | 1405.0 | 1374.7 | 1400.4 | 1389.9 | 1374.7 | 1159.2 |
| 22.5° | 1431.8 | 1442.3 | 1450.4 | 1488.9 | 1518.0 | 1514.5 | 1476.1 | 1470.3 | 1495.9 | 1481.9 | 1245.4 |
| 25°   | 1492.4 | 1497.0 | 1521.5 | 1568.1 | 1614.7 | 1626.4 | 1586.8 | 1541.3 | 1591.4 | 1578.6 | 1322.3 |
| 27.5° | 1558.8 | 1561.1 | 1590.2 | 1647.3 | 1712.6 | 1737.0 | 1705.6 | 1621.7 | 1664.8 | 1664.8 | 1392.2 |
| 30°   | 1680.0 | 1703.3 | 1714.9 | 1766.2 | 1823.3 | 1857.0 | 1819.8 | 1706.8 | 1730.1 | 1740.5 | 1465.6 |
| 32.5° | 1940.9 | 1944.4 | 1940.9 | 1963.1 | 1974.7 | 1994.5 | 1951.4 | 1802.3 | 1796.5 | 1808.1 | 1537.8 |
| 35°   | 2339.4 | 2325.4 | 2288.1 | 2255.5 | 2187.9 | 2150.6 | 2094.7 | 1924.6 | 1878.0 | 1894.3 | 1608.9 |
| 37.5° | 2822.8 | 2803.0 | 2718.0 | 2617.8 | 2473.3 | 2324.2 | 2254.3 | 2073.7 | 1981.7 | 2002.7 | 1685.8 |
| 40°   | 3284.2 | 3271.4 | 3170.0 | 3046.5 | 2799.5 | 2544.4 | 2396.4 | 2199.6 | 2097.0 | 2105.2 | 1763.8 |
| 42.5° | 3664.0 | 3661.6 | 3576.6 | 3447.3 | 3130.4 | 2782.1 | 2564.2 | 2323.0 | 2218.2 | 2231.0 | 1845.4 |
| 45°   | 3951.7 | 3929.6 | 3866.7 | 3773.5 | 3450.8 | 3029.0 | 2766.9 | 2510.6 | 2412.8 | 2427.9 | 1967.7 |
| 47.5° | 3951.7 | 3955.2 | 3996.0 | 3986.7 | 3674.5 | 3260.9 | 2988.3 | 2747.1 | 2700.5 | 2714.5 | 2169.3 |
| 50°   | 3630.2 | 3662.8 | 3844.6 | 3997.2 | 3791.0 | 3441.5 | 3227.1 | 3043.0 | 3090.8 | 3111.8 | 2521.1 |
| 52.5° | 2994.1 | 3048.8 | 3364.6 | 3712.9 | 3704.8 | 3532.3 | 3474.1 | 3419.3 | 3633.7 | 3671.0 | 3040.7 |
| 55°   | 2275.3 | 2311.4 | 2722.6 | 3180.5 | 3329.6 | 3457.8 | 3689.6 | 3897.0 | 4352.5 | 4344.3 | 3568.4 |
| 57.5° | 1699.8 | 1733.5 | 2087.7 | 2595.7 | 2792.5 | 3135.1 | 3800.3 | 4443.4 | 5065.5 | 5097.0 | 4063.6 |
| 60°   | 1250.1 | 1275.7 | 1577.4 | 1994.5 | 2278.8 | 2641.1 | 3756.0 | 4981.6 | 5886.8 | 5850.7 | 4500.5 |
| 62.5° | 925.0  | 939.0  | 1156.9 | 1428.3 | 1805.8 | 2151.8 | 3477.6 | 5349.8 | 6542.7 | 6469.3 | 4743.9 |
| 65°   | 715.3  | 720.0  | 833.0  | 977.4  | 1313.0 | 1673.0 | 3062.8 | 5405.7 | 6905.1 | 6827.0 | 4739.3 |
| 66°   | 637.3  | 640.8  | 723.5  | 835.3  | 1117.3 | 1464.4 | 2881.1 | 5316.0 | 6962.1 | 6879.4 | 4681.0 |
| 67.5° | 534.7  | 532.4  | 581.3  | 654.7  | 838.8  | 1130.1 | 2558.4 | 5053.8 | 6894.6 | 6852.6 | 4494.6 |
| 70°   | 396.1  | 397.3  | 421.7  | 439.2  | 490.5  | 625.6  | 1847.7 | 4384.0 | 6354.0 | 6351.7 | 3983.2 |
| 72.5° | 293.6  | 297.1  | 315.7  | 319.2  | 306.4  | 339.0  | 1064.8 | 3486.9 | 5083.0 | 5084.1 | 2977.8 |
| 75°   | 220.2  | 226.0  | 231.8  | 234.2  | 222.5  | 214.4  | 481.2  | 2346.3 | 3343.6 | 3319.1 | 1685.8 |
| 77.5° | 167.8  | 170.1  | 174.8  | 171.3  | 168.9  | 148.0  | 200.4  | 1144.0 | 1650.8 | 1504.0 | 546.4  |
| 80°   | 122.3  | 122.3  | 127.0  | 122.3  | 121.2  | 106.0  | 109.5  | 367.0  | 484.6  | 403.1  | 117.7  |
| 82.5° | 76.9   | 75.7   | 79.2   | 78.1   | 75.7   | 67.6   | 64.1   | 102.5  | 111.8  | 100.2  | 57.1   |
| 85°   | 43.1   | 41.9   | 40.8   | 39.6   | 36.1   | 30.3   | 35.0   | 38.4   | 51.3   | 52.4   | 40.8   |
| 87.5° | 15.1   | 15.1   | 14.0   | 12.8   | 10.5   | 10.5   | 12.8   | 12.8   | 18.6   | 18.6   | 21.0   |
| 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°    | 708.3  | 708.3  | 708.3 | 708.3 | 708.3 | 708.3 | 708.3 | 708.3 | 708.3 | 708.3 | 708.3 |
| 2.5°  | 713.0  | 700.2  | 681.5 | 657.1 | 639.6 | 622.1 | 603.5 | 593.0 | 577.8 | 574.4 | 579.0 |
| 5°    | 725.8  | 702.5  | 655.9 | 604.6 | 560.4 | 520.8 | 483.5 | 461.3 | 439.2 | 431.1 | 434.6 |
| 7.5°  | 752.6  | 713.0  | 633.8 | 551.1 | 477.7 | 418.2 | 374.0 | 348.3 | 328.5 | 320.4 | 322.7 |
| 10°   | 792.2  | 731.6  | 612.8 | 490.5 | 396.1 | 333.2 | 295.9 | 279.6 | 268.0 | 263.3 | 264.5 |
| 12.5° | 840.0  | 758.4  | 586.0 | 429.9 | 326.2 | 271.4 | 254.0 | 250.5 | 248.1 | 245.8 | 247.0 |
| 15°   | 893.6  | 781.7  | 554.5 | 370.5 | 271.4 | 241.2 | 235.3 | 234.2 | 233.0 | 233.0 | 233.0 |
| 17.5° | 949.5  | 802.7  | 519.6 | 314.6 | 236.5 | 222.5 | 219.0 | 219.0 | 219.0 | 220.2 | 220.2 |
| 20°   | 1001.9 | 819.0  | 478.8 | 264.5 | 216.7 | 205.0 | 202.7 | 202.7 | 203.9 | 205.0 | 205.0 |
| 22.5° | 1053.2 | 826.0  | 431.1 | 229.5 | 200.4 | 189.9 | 186.4 | 186.4 | 186.4 | 187.6 | 187.6 |
| 25°   | 1097.4 | 826.0  | 383.3 | 207.4 | 186.4 | 175.9 | 171.3 | 170.1 | 171.3 | 171.3 | 171.3 |
| 27.5° | 1134.7 | 822.5  | 336.7 | 192.2 | 172.4 | 161.9 | 157.3 | 156.1 | 158.4 | 159.6 | 159.6 |
| 30°   | 1174.3 | 817.8  | 299.4 | 178.2 | 160.8 | 150.3 | 145.6 | 145.6 | 149.1 | 153.8 | 153.8 |
| 32.5° | 1212.8 | 821.3  | 270.3 | 166.6 | 149.1 | 141.0 | 136.3 | 137.5 | 144.5 | 151.5 | 151.5 |
| 35°   | 1253.6 | 828.3  | 252.8 | 158.4 | 141.0 | 132.8 | 129.3 | 132.8 | 139.8 | 146.8 | 146.8 |
| 37.5° | 1294.3 | 836.5  | 242.3 | 151.5 | 134.0 | 125.8 | 123.5 | 128.2 | 136.3 | 143.3 | 144.5 |
| 40°   | 1337.4 | 843.5  | 230.7 | 144.5 | 129.3 | 120.0 | 118.8 | 123.5 | 134.0 | 141.0 | 142.1 |
| 42.5° | 1391.0 | 857.5  | 216.7 | 138.6 | 124.7 | 113.0 | 114.2 | 117.7 | 128.2 | 138.6 | 139.8 |
| 45°   | 1495.9 | 901.7  | 202.7 | 132.8 | 118.8 | 109.5 | 107.2 | 109.5 | 121.2 | 132.8 | 135.1 |
| 47.5° | 1692.8 | 1001.9 | 187.6 | 127.0 | 113.0 | 107.2 | 97.9  | 100.2 | 110.7 | 123.5 | 124.7 |
| 50°   | 2070.2 | 1215.1 | 179.4 | 121.2 | 108.3 | 99.0  | 88.5  | 88.5  | 96.7  | 108.3 | 108.3 |
| 52.5° | 2658.6 | 1597.2 | 184.1 | 116.5 | 102.5 | 90.9  | 80.4  | 79.2  | 83.9  | 92.0  | 92.0  |
| 55°   | 3293.5 | 2016.6 | 201.5 | 111.8 | 95.5  | 86.2  | 74.6  | 68.7  | 72.2  | 76.9  | 76.9  |
| 57.5° | 3796.8 | 2227.5 | 249.3 | 109.5 | 87.4  | 82.7  | 67.6  | 59.4  | 62.9  | 67.6  | 67.6  |
| 60°   | 4018.1 | 2104.0 | 302.9 | 111.8 | 81.6  | 76.9  | 60.6  | 52.4  | 58.3  | 62.9  | 64.1  |
| 62.5° | 3838.7 | 1732.4 | 325.0 | 106.0 | 73.4  | 68.7  | 59.4  | 48.9  | 55.9  | 59.4  | 60.6  |
| 65°   | 3450.8 | 1316.5 | 254.0 | 92.0  | 67.6  | 59.4  | 53.6  | 46.6  | 52.4  | 55.9  | 55.9  |
| 66°   | 3266.7 | 1147.5 | 216.7 | 85.0  | 65.2  | 55.9  | 51.3  | 46.6  | 51.3  | 53.6  | 54.8  |
| 67.5° | 2981.3 | 905.2  | 160.8 | 74.6  | 60.6  | 51.3  | 47.8  | 44.3  | 48.9  | 51.3  | 51.3  |
| 70°   | 2331.2 | 539.4  | 96.7  | 58.3  | 52.4  | 45.4  | 43.1  | 40.8  | 44.3  | 45.4  | 45.4  |
| 72.5° | 1459.8 | 256.3  | 61.7  | 43.1  | 44.3  | 43.1  | 36.1  | 38.4  | 39.6  | 40.8  | 40.8  |
| 75°   | 707.2  | 101.4  | 41.9  | 31.5  | 36.1  | 40.8  | 29.1  | 33.8  | 35.0  | 37.3  | 36.1  |
| 77.5° | 196.9  | 48.9   | 26.8  | 23.3  | 31.5  | 31.5  | 22.1  | 26.8  | 31.5  | 39.6  | 36.1  |
| 80°   | 57.1   | 31.5   | 17.5  | 17.5  | 22.1  | 22.1  | 15.1  | 18.6  | 21.0  | 23.3  | 24.5  |
| 82.5° | 39.6   | 21.0   | 11.7  | 12.8  | 12.8  | 14.0  | 9.3   | 9.3   | 11.7  | 11.7  | 12.8  |
| 85°   | 31.5   | 9.3    | 7.0   | 8.2   | 5.8   | 7.0   | 4.7   | 4.7   | 5.8   | 4.7   | 4.7   |
| 87.5° | 12.8   | 4.7    | 4.7   | 4.7   | 3.5   | 3.5   | 2.3   | 1.2   | 1.2   | 1.2   | 1.2   |
| 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)