

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: P1210808

Luminaire Tested: **ARCH3-80-727-U-T2RE-HSS**

Issue Date: 11/5/2025

### Test Information

Test Method: LM-79-08  
Report Number: P1210808  
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: ARCH3-80-727-U-T2RE-HSS  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2700K, 650mA 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: 8801 lumens  
Efficiency: N/A  
Efficacy: 107.5 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): 81.9  
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

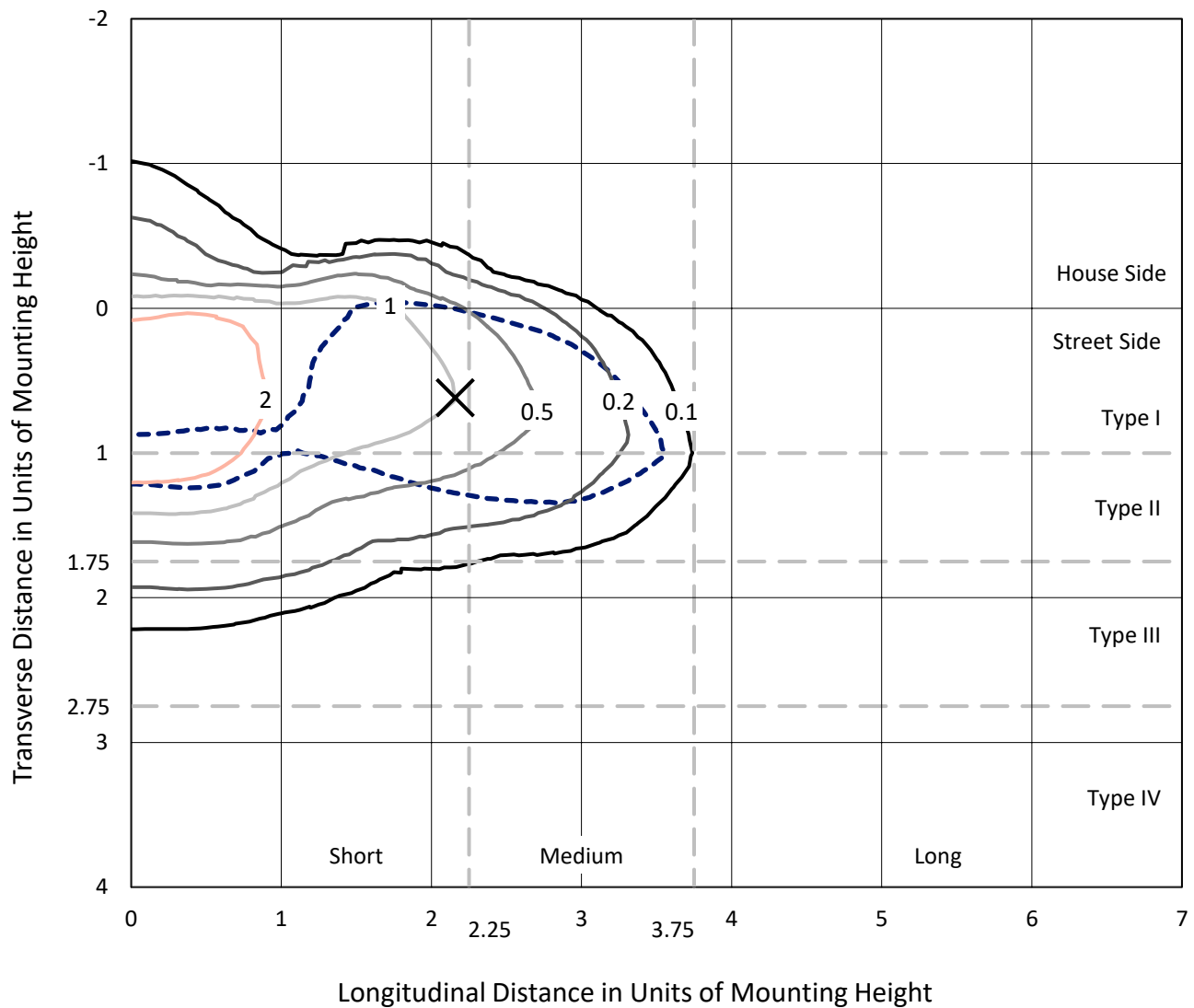


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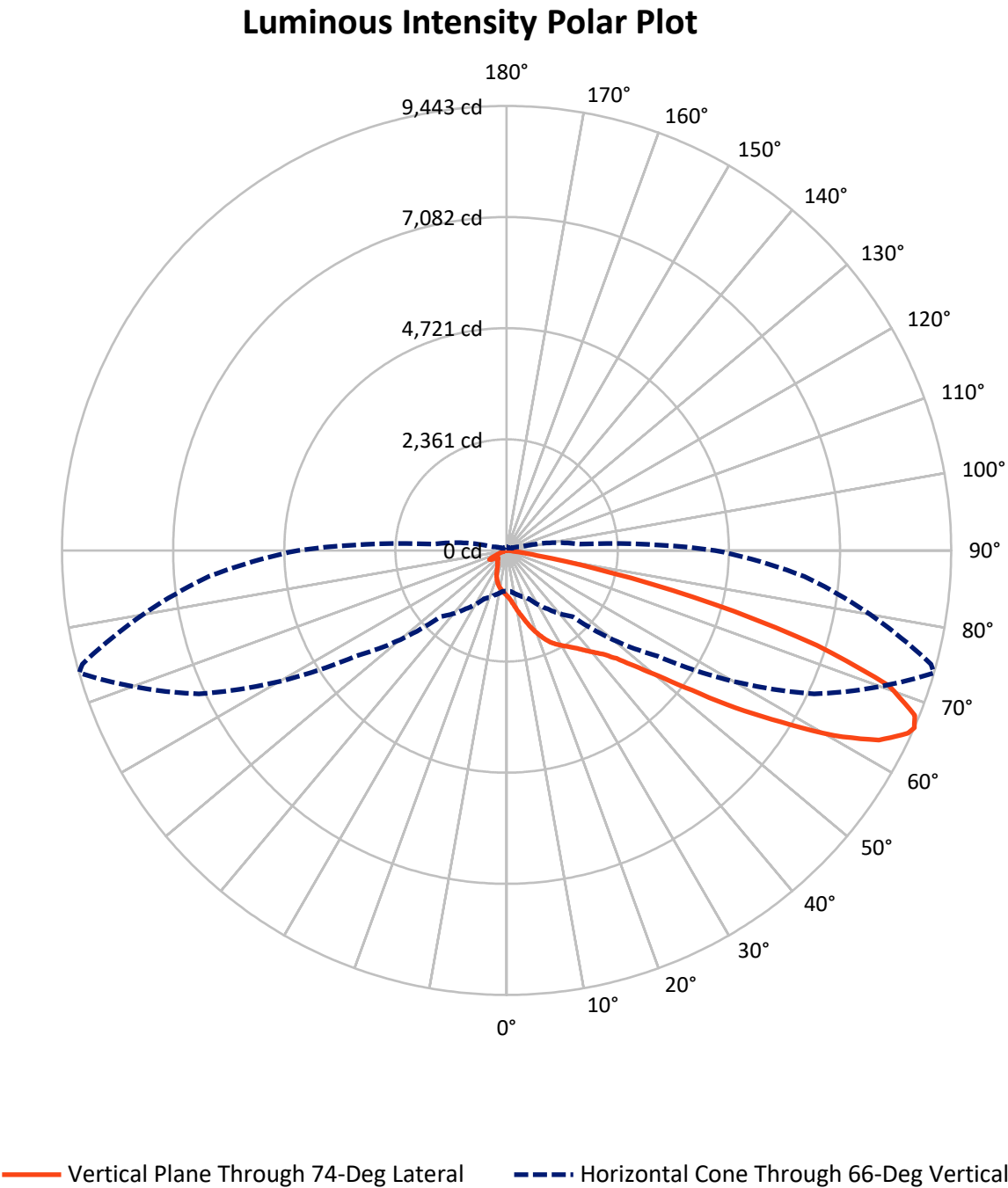
## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc  
Type II - Short - N/A

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 862.8    | 0.0    | 862.8  |
|                    | % Fixture | 9.8      | 0.0    | 9.8    |
| <b>Street Side</b> | Lumens    | 7938.2   | 0.0    | 7938.2 |
|                    | % Fixture | 90.2     | 0.0    | 90.2   |
| <b>Total</b>       | Lumens    | 8801.0   | 0.0    | 8801.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 93.8   | 1.1       |
| 10°-20°   | 300.6  | 3.4       |
| 20°-30°   | 573.7  | 6.5       |
| 30°-40°   | 1005.6 | 11.4      |
| 40°-50°   | 1724.3 | 19.6      |
| 50°-60°   | 2242.6 | 25.5      |
| 60°-70°   | 2030.1 | 23.1      |
| 70°-80°   | 783.3  | 8.9       |
| 80°-90°   | 47.1   | 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°    | 8801.0 | 100.0     |
| 0°-180°   | 8801.0 | 100.0     |

**Coefficient of Utilization**



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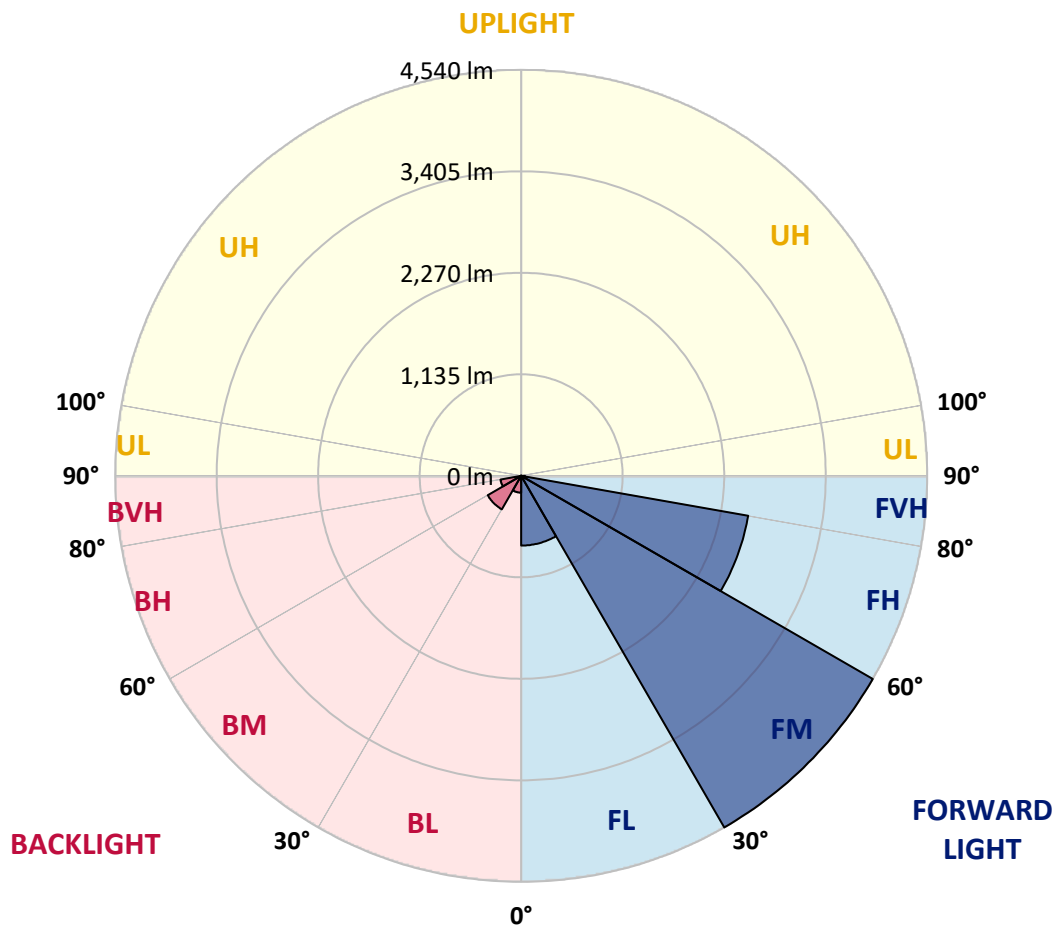
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 779.9  | 8.9       |                         |      |         |
| FM   | (30°-60°)   | 4540.0 | 51.6      |                         |      |         |
| FH   | (60°-80°)   | 2577.5 | 29.3      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 40.8   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 188.2  | 2.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 432.4  | 4.9       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 235.9  | 2.7       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 6.3    | 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°    | 960.7  | 960.7  | 960.7  | 960.7  | 960.7  | 960.7  | 960.7  | 960.7  | 960.7  | 960.7  | 960.7  |
| 2.5°  | 1153.5 | 1144.0 | 1126.6 | 1125.0 | 1110.8 | 1093.4 | 1063.4 | 1031.8 | 1009.7 | 1006.5 | 979.7  |
| 5°    | 1381.0 | 1376.3 | 1358.9 | 1347.8 | 1321.0 | 1279.9 | 1210.4 | 1140.8 | 1082.4 | 1076.1 | 1016.0 |
| 7.5°  | 1441.1 | 1444.2 | 1447.4 | 1458.4 | 1449.0 | 1430.0 | 1377.9 | 1279.9 | 1188.2 | 1174.0 | 1069.7 |
| 10°   | 1450.5 | 1447.4 | 1447.4 | 1461.6 | 1488.5 | 1515.3 | 1509.0 | 1425.3 | 1306.7 | 1289.4 | 1144.0 |
| 12.5° | 1553.2 | 1558.0 | 1546.9 | 1540.6 | 1535.9 | 1550.1 | 1597.5 | 1561.1 | 1431.6 | 1417.4 | 1234.1 |
| 15°   | 1686.0 | 1684.4 | 1668.6 | 1668.6 | 1654.4 | 1630.7 | 1660.7 | 1687.6 | 1581.7 | 1564.3 | 1336.8 |
| 17.5° | 1782.4 | 1788.7 | 1787.1 | 1796.6 | 1791.8 | 1760.2 | 1744.4 | 1799.7 | 1736.5 | 1714.4 | 1453.7 |
| 20°   | 1859.8 | 1877.2 | 1883.5 | 1913.5 | 1927.7 | 1905.6 | 1864.5 | 1899.3 | 1885.1 | 1864.5 | 1572.2 |
| 22.5° | 1942.0 | 1956.2 | 1967.2 | 2019.4 | 2058.9 | 2054.1 | 2002.0 | 1994.1 | 2028.9 | 2009.9 | 1689.1 |
| 25°   | 2024.1 | 2030.4 | 2063.6 | 2126.8 | 2190.0 | 2205.8 | 2152.1 | 2090.5 | 2158.4 | 2141.0 | 1793.4 |
| 27.5° | 2114.2 | 2117.3 | 2156.8 | 2234.3 | 2322.8 | 2355.9 | 2313.3 | 2199.5 | 2258.0 | 2258.0 | 1888.2 |
| 30°   | 2278.5 | 2310.1 | 2325.9 | 2395.4 | 2472.9 | 2518.7 | 2468.1 | 2314.9 | 2346.5 | 2360.7 | 1987.8 |
| 32.5° | 2632.5 | 2637.2 | 2632.5 | 2662.5 | 2678.3 | 2705.1 | 2646.7 | 2444.4 | 2436.5 | 2452.3 | 2085.7 |
| 35°   | 3172.9 | 3153.9 | 3103.3 | 3059.1 | 2967.4 | 2916.9 | 2841.0 | 2610.3 | 2547.1 | 2569.3 | 2182.1 |
| 37.5° | 3828.6 | 3801.7 | 3686.4 | 3550.5 | 3354.6 | 3152.3 | 3057.5 | 2812.6 | 2687.8 | 2716.2 | 2286.4 |
| 40°   | 4454.3 | 4436.9 | 4299.5 | 4132.0 | 3797.0 | 3451.0 | 3250.3 | 2983.2 | 2844.2 | 2855.3 | 2392.3 |
| 42.5° | 4969.4 | 4966.3 | 4850.9 | 4675.5 | 4245.7 | 3773.3 | 3477.8 | 3150.7 | 3008.5 | 3025.9 | 2502.9 |
| 45°   | 5359.7 | 5329.7 | 5244.4 | 5118.0 | 4680.3 | 4108.3 | 3752.8 | 3405.1 | 3272.4 | 3292.9 | 2668.8 |
| 47.5° | 5359.7 | 5364.5 | 5419.8 | 5407.1 | 4983.7 | 4422.7 | 4053.0 | 3725.9 | 3662.7 | 3681.6 | 2942.2 |
| 50°   | 4923.6 | 4967.9 | 5214.4 | 5421.3 | 5141.7 | 4667.6 | 4376.9 | 4127.2 | 4192.0 | 4220.5 | 3419.4 |
| 52.5° | 4060.9 | 4135.1 | 4563.3 | 5035.8 | 5024.7 | 4790.9 | 4711.9 | 4637.6 | 4928.4 | 4978.9 | 4124.1 |
| 55°   | 3085.9 | 3134.9 | 3692.7 | 4313.7 | 4515.9 | 4689.8 | 5004.2 | 5285.5 | 5903.3 | 5892.2 | 4839.9 |
| 57.5° | 2305.4 | 2351.2 | 2831.6 | 3520.5 | 3787.5 | 4252.1 | 5154.3 | 6026.5 | 6870.3 | 6913.0 | 5511.4 |
| 60°   | 1695.5 | 1730.2 | 2139.5 | 2705.1 | 3090.7 | 3582.1 | 5094.3 | 6756.5 | 7984.3 | 7935.3 | 6104.0 |
| 62.5° | 1254.6 | 1273.6 | 1569.0 | 1937.2 | 2449.2 | 2918.5 | 4716.6 | 7255.9 | 8873.9 | 8774.3 | 6434.2 |
| 65°   | 970.2  | 976.5  | 1129.8 | 1325.7 | 1780.8 | 2269.0 | 4154.1 | 7331.7 | 9365.3 | 9259.4 | 6427.9 |
| 66°   | 864.3  | 869.1  | 981.2  | 1132.9 | 1515.3 | 1986.2 | 3907.6 | 7210.0 | 9442.7 | 9330.5 | 6348.9 |
| 67.5° | 725.3  | 722.1  | 788.5  | 888.0  | 1137.7 | 1532.7 | 3469.9 | 6854.5 | 9351.1 | 9294.2 | 6096.1 |
| 70°   | 537.2  | 538.8  | 572.0  | 595.7  | 665.2  | 848.5  | 2506.1 | 5945.9 | 8617.9 | 8614.7 | 5402.4 |
| 72.5° | 398.2  | 402.9  | 428.2  | 432.9  | 415.6  | 459.8  | 1444.2 | 4729.3 | 6894.0 | 6895.6 | 4038.8 |
| 75°   | 298.6  | 306.5  | 314.4  | 317.6  | 301.8  | 290.7  | 652.6  | 3182.3 | 4534.9 | 4501.7 | 2286.4 |
| 77.5° | 227.5  | 230.7  | 237.0  | 232.3  | 229.1  | 200.7  | 271.8  | 1551.7 | 2239.0 | 2039.9 | 741.1  |
| 80°   | 165.9  | 165.9  | 172.2  | 165.9  | 164.3  | 143.8  | 148.5  | 497.7  | 657.3  | 546.7  | 159.6  |
| 82.5° | 104.3  | 102.7  | 107.4  | 105.9  | 102.7  | 91.6   | 86.9   | 139.0  | 151.7  | 135.9  | 77.4   |
| 85°   | 58.5   | 56.9   | 55.3   | 53.7   | 49.0   | 41.1   | 47.4   | 52.1   | 69.5   | 71.1   | 55.3   |
| 87.5° | 20.5   | 20.5   | 19.0   | 17.4   | 14.2   | 14.2   | 17.4   | 17.4   | 25.3   | 25.3   | 28.4   |
| 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°    | 960.7  | 960.7  | 960.7 | 960.7 | 960.7 | 960.7 | 960.7 | 960.7 | 960.7 | 960.7 | 960.7 |
| 2.5°  | 967.0  | 949.6  | 924.4 | 891.2 | 867.5 | 843.8 | 818.5 | 804.3 | 783.7 | 779.0 | 785.3 |
| 5°    | 984.4  | 952.8  | 889.6 | 820.1 | 760.0 | 706.3 | 655.7 | 625.7 | 595.7 | 584.6 | 589.4 |
| 7.5°  | 1020.7 | 967.0  | 859.6 | 747.4 | 647.8 | 567.3 | 507.2 | 472.5 | 445.6 | 434.5 | 437.7 |
| 10°   | 1074.5 | 992.3  | 831.1 | 665.2 | 537.2 | 451.9 | 401.3 | 379.2 | 363.4 | 357.1 | 358.7 |
| 12.5° | 1139.3 | 1028.6 | 794.8 | 583.1 | 442.4 | 368.2 | 344.5 | 339.7 | 336.6 | 333.4 | 335.0 |
| 15°   | 1211.9 | 1060.3 | 752.1 | 502.5 | 368.2 | 327.1 | 319.2 | 317.6 | 316.0 | 316.0 | 316.0 |
| 17.5° | 1287.8 | 1088.7 | 704.7 | 426.6 | 320.8 | 301.8 | 297.1 | 297.1 | 297.1 | 298.6 | 298.6 |
| 20°   | 1358.9 | 1110.8 | 649.4 | 358.7 | 293.9 | 278.1 | 274.9 | 274.9 | 276.5 | 278.1 | 278.1 |
| 22.5° | 1428.4 | 1120.3 | 584.6 | 311.3 | 271.8 | 257.6 | 252.8 | 252.8 | 252.8 | 254.4 | 254.4 |
| 25°   | 1488.5 | 1120.3 | 519.9 | 281.3 | 252.8 | 238.6 | 232.3 | 230.7 | 232.3 | 232.3 | 232.3 |
| 27.5° | 1539.0 | 1115.6 | 456.7 | 260.7 | 233.9 | 219.6 | 213.3 | 211.7 | 214.9 | 216.5 | 216.5 |
| 30°   | 1592.7 | 1109.2 | 406.1 | 241.8 | 218.1 | 203.8 | 197.5 | 197.5 | 202.3 | 208.6 | 208.6 |
| 32.5° | 1644.9 | 1114.0 | 366.6 | 226.0 | 202.3 | 191.2 | 184.9 | 186.5 | 195.9 | 205.4 | 205.4 |
| 35°   | 1700.2 | 1123.5 | 342.9 | 214.9 | 191.2 | 180.1 | 175.4 | 180.1 | 189.6 | 199.1 | 199.1 |
| 37.5° | 1755.5 | 1134.5 | 328.7 | 205.4 | 181.7 | 170.7 | 167.5 | 173.8 | 184.9 | 194.4 | 195.9 |
| 40°   | 1814.0 | 1144.0 | 312.9 | 195.9 | 175.4 | 162.8 | 161.2 | 167.5 | 181.7 | 191.2 | 192.8 |
| 42.5° | 1886.6 | 1163.0 | 293.9 | 188.0 | 169.1 | 153.3 | 154.9 | 159.6 | 173.8 | 188.0 | 189.6 |
| 45°   | 2028.9 | 1223.0 | 274.9 | 180.1 | 161.2 | 148.5 | 145.4 | 148.5 | 164.3 | 180.1 | 183.3 |
| 47.5° | 2295.9 | 1358.9 | 254.4 | 172.2 | 153.3 | 145.4 | 132.7 | 135.9 | 150.1 | 167.5 | 169.1 |
| 50°   | 2807.9 | 1648.1 | 243.3 | 164.3 | 146.9 | 134.3 | 120.1 | 120.1 | 131.1 | 146.9 | 146.9 |
| 52.5° | 3605.8 | 2166.3 | 249.7 | 158.0 | 139.0 | 123.2 | 109.0 | 107.4 | 113.8 | 124.8 | 124.8 |
| 55°   | 4467.0 | 2735.2 | 273.4 | 151.7 | 129.6 | 116.9 | 101.1 | 93.2  | 98.0  | 104.3 | 104.3 |
| 57.5° | 5149.6 | 3021.2 | 338.1 | 148.5 | 118.5 | 112.2 | 91.6  | 80.6  | 85.3  | 91.6  | 91.6  |
| 60°   | 5449.8 | 2853.7 | 410.8 | 151.7 | 110.6 | 104.3 | 82.2  | 71.1  | 79.0  | 85.3  | 86.9  |
| 62.5° | 5206.5 | 2349.6 | 440.8 | 143.8 | 99.5  | 93.2  | 80.6  | 66.4  | 75.8  | 80.6  | 82.2  |
| 65°   | 4680.3 | 1785.5 | 344.5 | 124.8 | 91.6  | 80.6  | 72.7  | 63.2  | 71.1  | 75.8  | 75.8  |
| 66°   | 4430.6 | 1556.4 | 293.9 | 115.3 | 88.5  | 75.8  | 69.5  | 63.2  | 69.5  | 72.7  | 74.3  |
| 67.5° | 4043.5 | 1227.7 | 218.1 | 101.1 | 82.2  | 69.5  | 64.8  | 60.0  | 66.4  | 69.5  | 69.5  |
| 70°   | 3161.8 | 731.6  | 131.1 | 79.0  | 71.1  | 61.6  | 58.5  | 55.3  | 60.0  | 61.6  | 61.6  |
| 72.5° | 1979.9 | 347.6  | 83.7  | 58.5  | 60.0  | 58.5  | 49.0  | 52.1  | 53.7  | 55.3  | 55.3  |
| 75°   | 959.1  | 137.5  | 56.9  | 42.7  | 49.0  | 55.3  | 39.5  | 45.8  | 47.4  | 50.6  | 49.0  |
| 77.5° | 267.0  | 66.4   | 36.3  | 31.6  | 42.7  | 42.7  | 30.0  | 36.3  | 42.7  | 53.7  | 49.0  |
| 80°   | 77.4   | 42.7   | 23.7  | 23.7  | 30.0  | 30.0  | 20.5  | 25.3  | 28.4  | 31.6  | 33.2  |
| 82.5° | 53.7   | 28.4   | 15.8  | 17.4  | 17.4  | 19.0  | 12.6  | 12.6  | 15.8  | 15.8  | 17.4  |
| 85°   | 42.7   | 12.6   | 9.5   | 11.1  | 7.9   | 9.5   | 6.3   | 6.3   | 7.9   | 6.3   | 6.3   |
| 87.5° | 17.4   | 6.3    | 6.3   | 6.3   | 4.7   | 4.7   | 3.2   | 1.6   | 1.6   | 1.6   | 1.6   |
| 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)