

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: P1210058

Luminaire Tested: **ARCH1-60-750-U-T3RE-HSS**

Issue Date: 11/5/2025

#### Test Information

Test Method: LM-79-08  
Report Number: P1210058  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/5/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH1-60-750-U-T3RE-HSS  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 5000K, 1640mA LIGHTSQUARE WITH 10 LEDS AND TYPE III ROADWAY  
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

#### Summary

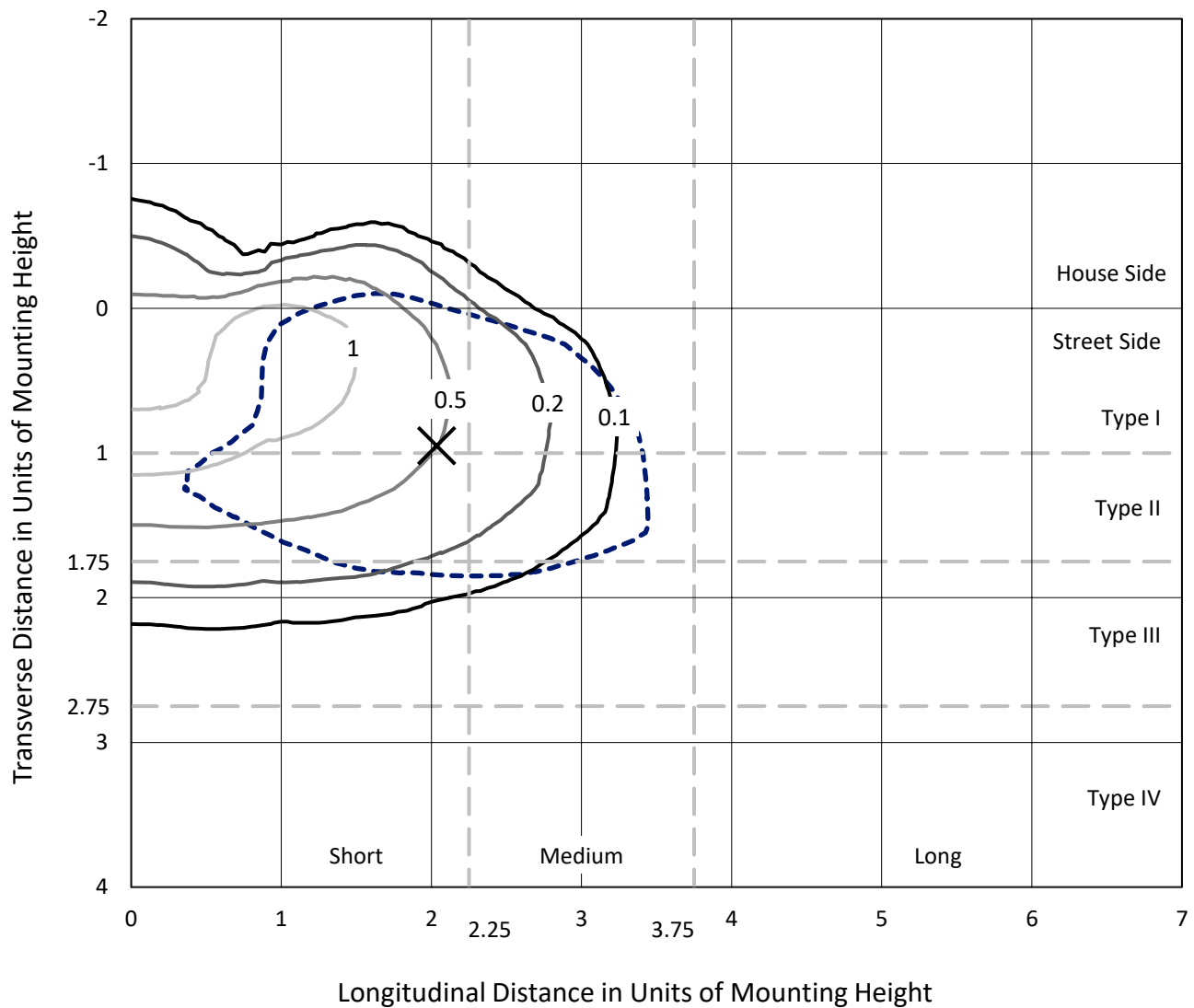
Lumens per Lamp: N/A  
Luminaire Lumens: 5340 lumens  
Efficiency: N/A  
Efficacy: 89.0 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 60  
Input Voltage (V): NR  
Input Current (Ain): NR  
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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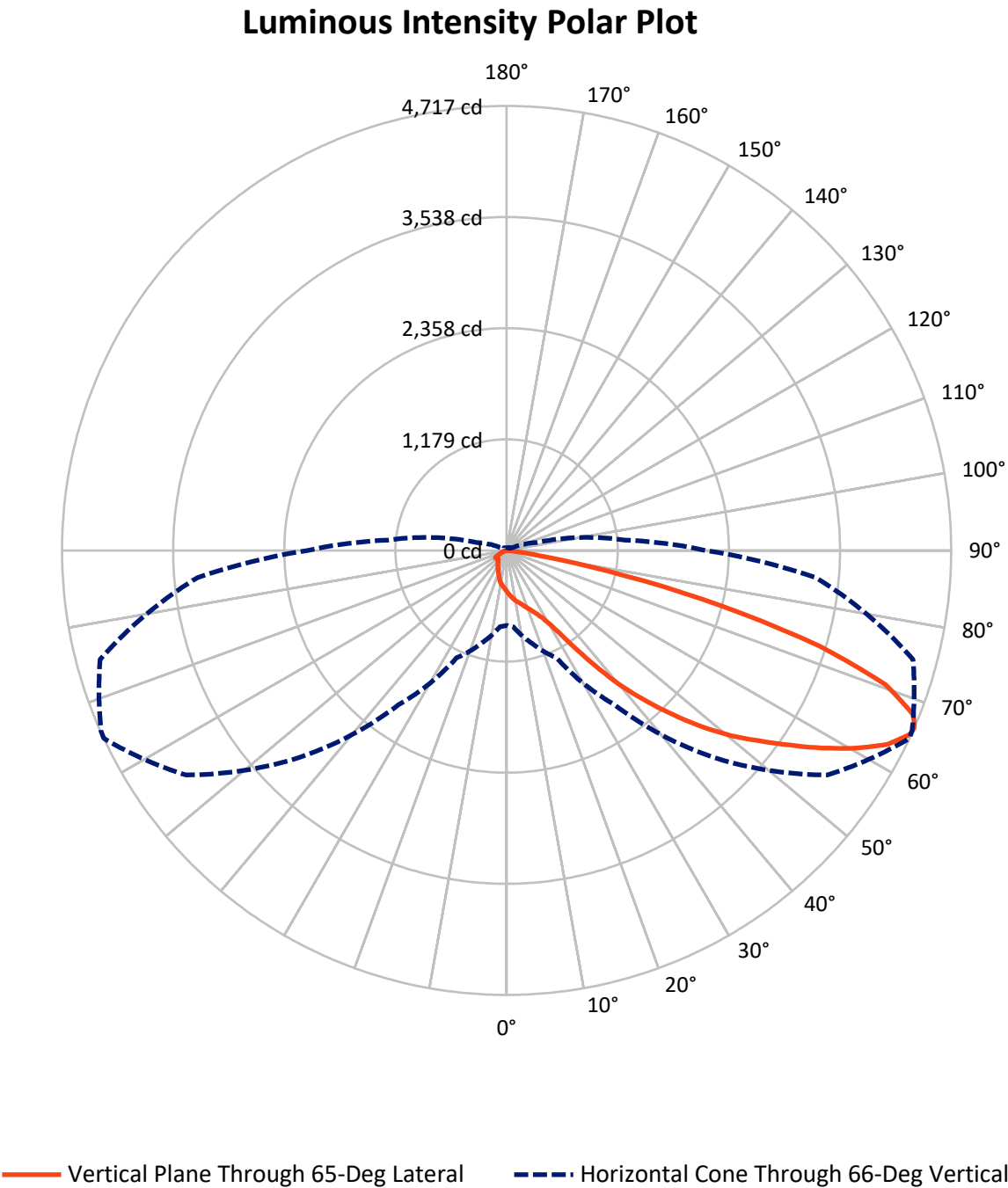
## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc  
Type III - Short - N/A

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 630.2    | 0.0    | 630.2  |
|                    | % Fixture | 11.8     | 0.0    | 11.8   |
| <b>Street Side</b> | Lumens    | 4709.8   | 0.0    | 4709.8 |
|                    | % Fixture | 88.2     | 0.0    | 88.2   |
| <b>Total</b>       | Lumens    | 5340.0   | 0.0    | 5340.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 41.2   | 0.8       |
| 10°-20°   | 122.1  | 2.3       |
| 20°-30°   | 223.5  | 4.2       |
| 30°-40°   | 454.1  | 8.5       |
| 40°-50°   | 958.9  | 18.0      |
| 50°-60°   | 1474.2 | 27.6      |
| 60°-70°   | 1483.9 | 27.8      |
| 70°-80°   | 554.4  | 10.4      |
| 80°-90°   | 27.7   | 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°    | 5340.0 | 100.0     |
| 0°-180°   | 5340.0 | 100.0     |

**Coefficient of Utilization**



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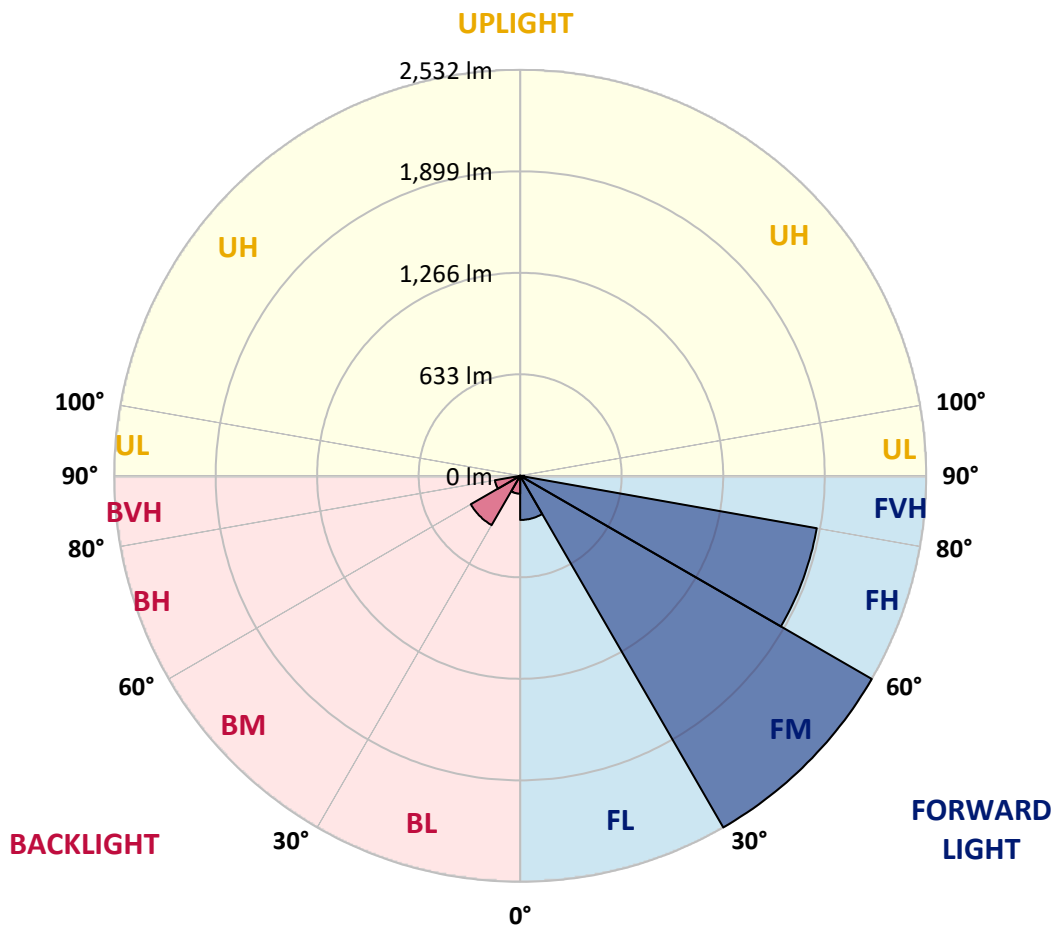
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 275.3  | 5.2       |                         |      |         |
| FM   | (30°-60°)   | 2531.9 | 47.4      |                         |      |         |
| FH   | (60°-80°)   | 1878.2 | 35.2      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 24.4   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 111.5  | 2.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 355.3  | 6.7       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 160.1  | 3.0       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 3.3    | 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 III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 66°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 435.1  | 435.1  | 435.1  | 435.1  | 435.1  | 435.1  | 435.1  | 435.1  | 435.1  | 435.1  | 435.1  |
| 2.5°  | 496.1  | 497.1  | 495.1  | 491.3  | 487.4  | 482.5  | 474.8  | 462.2  | 460.3  | 451.5  | 441.8  |
| 5°    | 530.0  | 532.0  | 529.0  | 528.1  | 526.1  | 519.4  | 508.7  | 490.3  | 488.4  | 470.9  | 448.6  |
| 7.5°  | 541.6  | 544.6  | 542.6  | 542.6  | 542.6  | 539.7  | 534.9  | 518.4  | 515.5  | 493.2  | 459.3  |
| 10°   | 550.4  | 552.3  | 551.3  | 555.2  | 558.1  | 556.2  | 553.3  | 543.6  | 540.7  | 518.4  | 473.8  |
| 12.5° | 563.9  | 564.9  | 565.9  | 567.8  | 572.7  | 574.6  | 573.6  | 564.9  | 563.0  | 547.5  | 492.2  |
| 15°   | 576.5  | 576.5  | 577.5  | 586.2  | 593.0  | 596.9  | 597.8  | 591.1  | 589.1  | 576.5  | 515.5  |
| 17.5° | 588.2  | 589.1  | 592.0  | 601.7  | 613.3  | 621.1  | 625.9  | 623.0  | 620.1  | 610.4  | 542.6  |
| 20°   | 605.6  | 607.5  | 610.4  | 624.0  | 635.6  | 648.2  | 657.9  | 656.9  | 656.0  | 649.2  | 574.6  |
| 22.5° | 635.6  | 637.6  | 642.4  | 655.0  | 666.6  | 682.1  | 698.6  | 697.6  | 694.7  | 689.9  | 612.4  |
| 25°   | 681.2  | 681.2  | 684.1  | 694.7  | 709.3  | 727.7  | 743.2  | 746.1  | 743.2  | 740.3  | 659.9  |
| 27.5° | 738.3  | 739.3  | 739.3  | 750.9  | 764.5  | 787.8  | 807.1  | 810.0  | 810.0  | 807.1  | 723.8  |
| 30°   | 817.8  | 814.9  | 813.0  | 822.6  | 837.2  | 871.1  | 905.0  | 910.8  | 907.9  | 912.8  | 813.9  |
| 32.5° | 954.4  | 949.6  | 933.1  | 935.0  | 943.8  | 990.3  | 1047.4 | 1067.8 | 1066.8 | 1075.5 | 959.3  |
| 35°   | 1143.4 | 1133.7 | 1109.5 | 1089.1 | 1088.1 | 1138.5 | 1225.7 | 1302.3 | 1301.3 | 1331.3 | 1180.2 |
| 37.5° | 1356.5 | 1369.1 | 1323.6 | 1288.7 | 1278.0 | 1317.8 | 1430.2 | 1595.9 | 1604.6 | 1656.9 | 1469.9 |
| 40°   | 1641.4 | 1649.2 | 1591.0 | 1541.6 | 1491.2 | 1505.8 | 1654.0 | 1911.7 | 1927.2 | 1985.4 | 1759.6 |
| 42.5° | 1889.5 | 1897.2 | 1863.3 | 1803.2 | 1739.3 | 1712.1 | 1879.8 | 2198.6 | 2211.2 | 2291.6 | 2058.1 |
| 45°   | 2058.1 | 2063.9 | 2075.5 | 2081.3 | 2008.6 | 1952.4 | 2155.9 | 2493.1 | 2508.6 | 2601.6 | 2349.7 |
| 47.5° | 2189.8 | 2194.7 | 2217.9 | 2276.1 | 2261.5 | 2217.0 | 2436.9 | 2799.3 | 2803.2 | 2906.9 | 2633.6 |
| 50°   | 2250.9 | 2262.5 | 2319.7 | 2408.8 | 2472.8 | 2485.4 | 2742.1 | 3089.0 | 3099.7 | 3198.5 | 2902.0 |
| 52.5° | 2183.1 | 2186.9 | 2331.3 | 2498.9 | 2627.8 | 2755.7 | 3048.3 | 3357.4 | 3388.4 | 3462.1 | 3143.3 |
| 55°   | 1954.4 | 1982.5 | 2201.5 | 2496.0 | 2749.9 | 3012.5 | 3375.8 | 3647.1 | 3675.2 | 3721.7 | 3355.5 |
| 57.5° | 1688.9 | 1719.9 | 1986.4 | 2371.0 | 2802.2 | 3249.9 | 3679.1 | 3955.3 | 3974.6 | 3987.2 | 3550.2 |
| 60°   | 1459.2 | 1488.3 | 1762.5 | 2131.7 | 2749.9 | 3417.5 | 3961.1 | 4261.5 | 4277.9 | 4244.0 | 3648.1 |
| 62.5° | 1177.3 | 1206.3 | 1482.5 | 1814.8 | 2544.5 | 3451.4 | 4170.4 | 4533.7 | 4540.5 | 4448.5 | 3588.0 |
| 65°   | 887.6  | 906.9  | 1137.6 | 1422.4 | 2185.0 | 3271.2 | 4217.9 | 4703.3 | 4696.5 | 4507.6 | 3407.8 |
| 66°   | 795.5  | 812.0  | 1015.5 | 1257.7 | 1998.0 | 3106.5 | 4153.9 | 4716.9 | 4710.1 | 4464.0 | 3289.6 |
| 67.5° | 686.0  | 690.9  | 858.5  | 1029.0 | 1671.4 | 2756.7 | 3959.1 | 4654.8 | 4660.7 | 4343.8 | 3073.5 |
| 70°   | 535.8  | 534.9  | 631.8  | 716.1  | 1141.4 | 1961.2 | 3302.2 | 4264.4 | 4292.5 | 3890.3 | 2621.0 |
| 72.5° | 343.0  | 331.4  | 387.6  | 438.0  | 664.7  | 1138.5 | 2407.8 | 3475.6 | 3523.1 | 3056.1 | 1952.4 |
| 75°   | 204.4  | 192.8  | 206.4  | 219.0  | 318.8  | 547.5  | 1415.6 | 2365.2 | 2410.8 | 1959.2 | 1161.8 |
| 77.5° | 153.1  | 148.2  | 149.2  | 138.6  | 141.5  | 205.4  | 646.3  | 1249.9 | 1282.9 | 802.3  | 440.9  |
| 80°   | 117.2  | 104.6  | 97.9   | 102.7  | 93.0   | 81.4   | 240.3  | 430.2  | 450.6  | 189.9  | 92.1   |
| 82.5° | 78.5   | 67.8   | 63.0   | 68.8   | 59.1   | 45.5   | 58.1   | 83.3   | 81.4   | 51.4   | 35.9   |
| 85°   | 40.7   | 34.9   | 34.9   | 34.9   | 30.0   | 22.3   | 25.2   | 33.9   | 33.9   | 27.1   | 21.3   |
| 87.5° | 11.6   | 10.7   | 12.6   | 11.6   | 8.7    | 8.7    | 9.7    | 11.6   | 11.6   | 10.7   | 9.7    |
| 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°    | 435.1  | 435.1  | 435.1 | 435.1 | 435.1 | 435.1 | 435.1 | 435.1 | 435.1 | 435.1 | 435.1 |
| 2.5°  | 434.1  | 430.2  | 419.6 | 411.8 | 404.1 | 397.3 | 389.5 | 387.6 | 383.7 | 384.7 | 382.7 |
| 5°    | 437.0  | 426.3  | 407.9 | 390.5 | 376.9 | 365.3 | 350.8 | 344.9 | 337.2 | 334.3 | 332.4 |
| 7.5°  | 440.9  | 425.4  | 398.2 | 374.0 | 350.8 | 327.5 | 304.3 | 290.7 | 282.0 | 278.1 | 275.2 |
| 10°   | 449.6  | 429.2  | 393.4 | 355.6 | 315.9 | 282.9 | 259.7 | 250.0 | 244.2 | 243.2 | 242.2 |
| 12.5° | 461.2  | 435.1  | 388.6 | 332.4 | 280.0 | 249.0 | 234.5 | 231.6 | 230.6 | 230.6 | 229.6 |
| 15°   | 478.7  | 444.7  | 380.8 | 305.2 | 251.9 | 230.6 | 223.8 | 219.0 | 217.0 | 217.0 | 217.0 |
| 17.5° | 496.1  | 456.4  | 369.2 | 277.1 | 232.5 | 219.0 | 212.2 | 209.3 | 207.4 | 208.3 | 207.4 |
| 20°   | 518.4  | 469.9  | 353.7 | 252.9 | 220.0 | 209.3 | 202.5 | 199.6 | 198.6 | 198.6 | 198.6 |
| 22.5° | 543.6  | 485.4  | 334.3 | 234.5 | 209.3 | 199.6 | 192.8 | 189.9 | 188.0 | 188.9 | 188.9 |
| 25°   | 577.5  | 504.8  | 313.9 | 216.1 | 198.6 | 189.9 | 182.2 | 178.3 | 178.3 | 179.3 | 180.2 |
| 27.5° | 621.1  | 528.1  | 293.6 | 204.4 | 188.9 | 180.2 | 171.5 | 167.6 | 168.6 | 170.5 | 170.5 |
| 30°   | 685.0  | 560.1  | 273.2 | 191.9 | 178.3 | 168.6 | 160.8 | 157.0 | 158.9 | 162.8 | 162.8 |
| 32.5° | 776.1  | 612.4  | 255.8 | 177.3 | 162.8 | 152.1 | 144.4 | 141.5 | 146.3 | 154.1 | 154.1 |
| 35°   | 938.9  | 708.3  | 245.1 | 162.8 | 146.3 | 133.7 | 124.0 | 121.1 | 127.9 | 137.6 | 137.6 |
| 37.5° | 1156.9 | 862.4  | 249.0 | 150.2 | 132.7 | 118.2 | 107.6 | 103.7 | 108.5 | 117.2 | 120.2 |
| 40°   | 1400.1 | 1048.4 | 282.9 | 139.5 | 120.2 | 105.6 | 95.0  | 91.1  | 94.0  | 97.9  | 98.8  |
| 42.5° | 1643.3 | 1246.1 | 346.9 | 131.8 | 110.5 | 95.0  | 85.3  | 82.4  | 84.3  | 85.3  | 86.2  |
| 45°   | 1885.6 | 1441.8 | 427.3 | 126.9 | 101.7 | 86.2  | 76.5  | 76.5  | 77.5  | 77.5  | 77.5  |
| 47.5° | 2115.2 | 1632.7 | 511.6 | 126.0 | 94.0  | 77.5  | 69.8  | 70.7  | 70.7  | 71.7  | 71.7  |
| 50°   | 2332.3 | 1803.2 | 596.9 | 128.9 | 87.2  | 69.8  | 64.0  | 64.0  | 64.0  | 64.9  | 64.0  |
| 52.5° | 2513.5 | 1952.4 | 686.0 | 133.7 | 80.4  | 64.0  | 58.1  | 58.1  | 58.1  | 59.1  | 58.1  |
| 55°   | 2685.0 | 2088.1 | 777.1 | 140.5 | 74.6  | 59.1  | 53.3  | 51.4  | 51.4  | 52.3  | 51.4  |
| 57.5° | 2824.5 | 2178.2 | 863.3 | 141.5 | 69.8  | 54.3  | 49.4  | 46.5  | 46.5  | 46.5  | 46.5  |
| 60°   | 2830.3 | 2125.9 | 888.5 | 124.0 | 64.0  | 49.4  | 44.6  | 40.7  | 41.7  | 41.7  | 41.7  |
| 62.5° | 2645.2 | 1850.7 | 714.1 | 93.0  | 57.2  | 44.6  | 40.7  | 36.8  | 36.8  | 36.8  | 36.8  |
| 65°   | 2281.9 | 1439.9 | 418.6 | 73.6  | 49.4  | 39.7  | 35.9  | 32.9  | 32.9  | 32.9  | 32.0  |
| 66°   | 2111.3 | 1262.5 | 320.7 | 66.9  | 46.5  | 38.8  | 34.9  | 32.0  | 31.0  | 30.0  | 30.0  |
| 67.5° | 1833.3 | 998.0  | 200.6 | 59.1  | 42.6  | 35.9  | 32.0  | 29.1  | 28.1  | 27.1  | 27.1  |
| 70°   | 1380.8 | 633.7  | 97.9  | 45.5  | 36.8  | 31.0  | 28.1  | 25.2  | 24.2  | 23.3  | 22.3  |
| 72.5° | 969.0  | 371.1  | 51.4  | 34.9  | 30.0  | 27.1  | 24.2  | 21.3  | 20.3  | 19.4  | 19.4  |
| 75°   | 547.5  | 179.3  | 33.9  | 25.2  | 24.2  | 22.3  | 20.3  | 17.4  | 16.5  | 16.5  | 16.5  |
| 77.5° | 207.4  | 62.0   | 23.3  | 18.4  | 19.4  | 17.4  | 14.5  | 14.5  | 13.6  | 14.5  | 13.6  |
| 80°   | 54.3   | 27.1   | 14.5  | 13.6  | 14.5  | 12.6  | 10.7  | 11.6  | 11.6  | 11.6  | 11.6  |
| 82.5° | 29.1   | 15.5   | 8.7   | 9.7   | 8.7   | 8.7   | 6.8   | 7.8   | 8.7   | 7.8   | 8.7   |
| 85°   | 20.3   | 7.8    | 4.8   | 4.8   | 3.9   | 3.9   | 2.9   | 3.9   | 4.8   | 3.9   | 3.9   |
| 87.5° | 10.7   | 2.9    | 2.9   | 2.9   | 2.9   | 1.9   | 1.0   | 0.0   | 1.0   | 1.0   | 1.0   |
| 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)