

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: P1209944

Luminaire Tested: **ARCH1-30-727-U-T2RE-HSS**

Issue Date: 11/5/2025

### Test Information

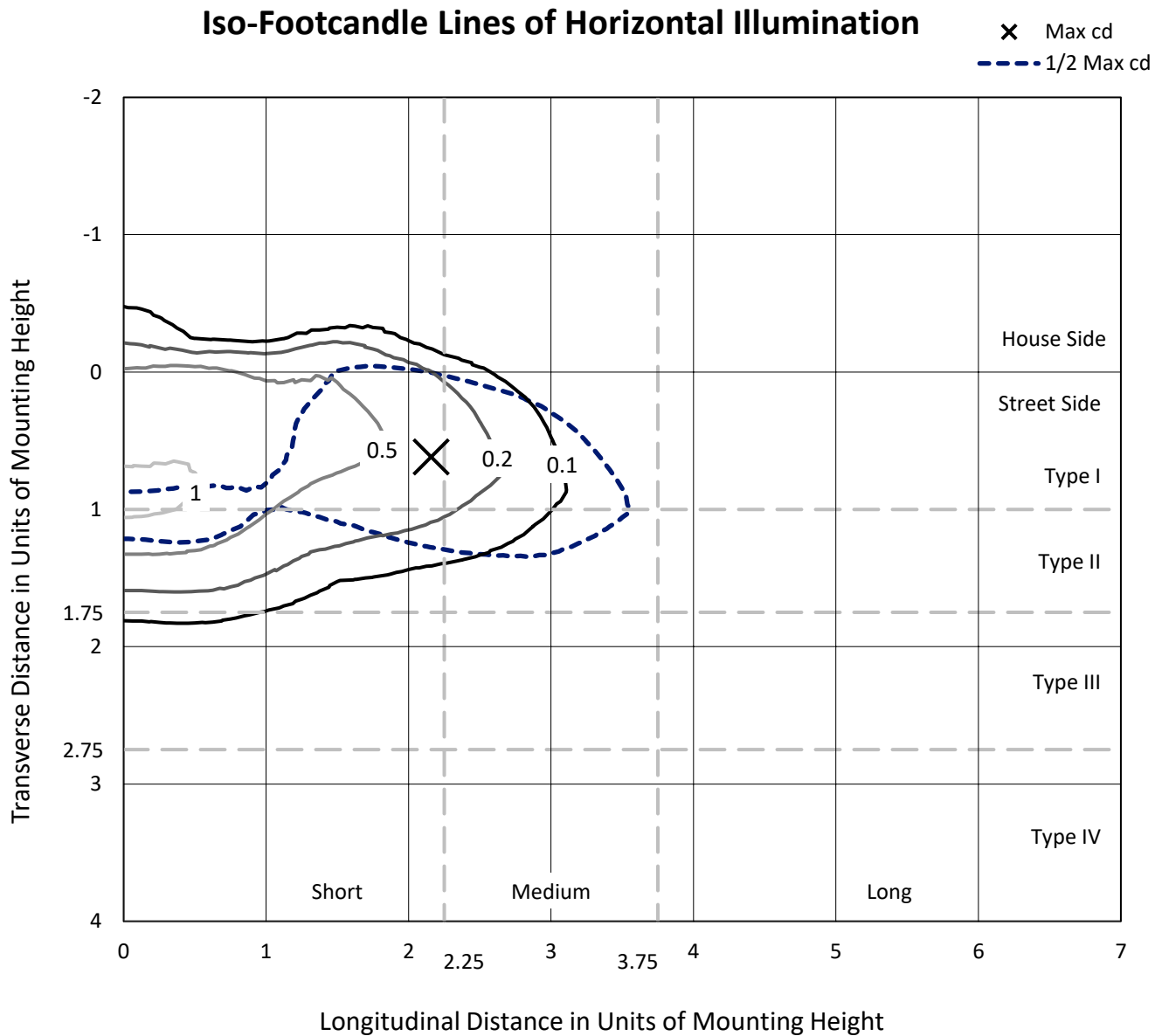
Test Method: LM-79-08  
Report Number: P1209944  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/5/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH1-30-727-U-T2RE-HSS  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2700K, 950mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY  
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 3205 lumens  
Efficiency: N/A  
Efficacy: 97.1 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 33  
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

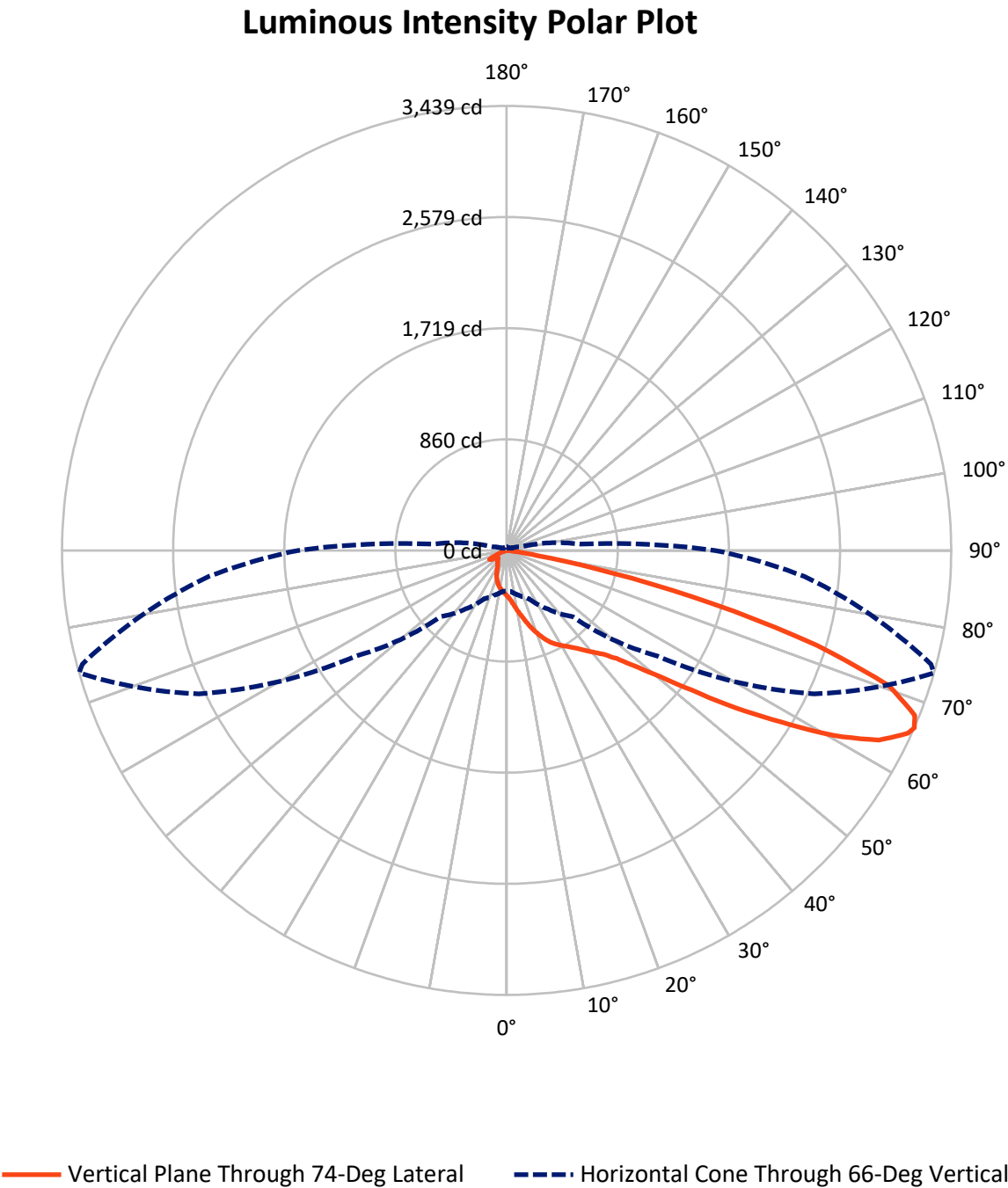


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Based on 25 foot mounting height. Maximum calculated value = 1.2 fc  
Type II - Short - N/A

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 314.2    | 0.0    | 314.2  |
|                    | % Fixture | 9.8      | 0.0    | 9.8    |
| <b>Street Side</b> | Lumens    | 2890.8   | 0.0    | 2890.8 |
|                    | % Fixture | 90.2     | 0.0    | 90.2   |
| <b>Total</b>       | Lumens    | 3205.0   | 0.0    | 3205.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 34.1   | 1.1       |
| 10°-20°   | 109.5  | 3.4       |
| 20°-30°   | 208.9  | 6.5       |
| 30°-40°   | 366.2  | 11.4      |
| 40°-50°   | 627.9  | 19.6      |
| 50°-60°   | 816.6  | 25.5      |
| 60°-70°   | 739.3  | 23.1      |
| 70°-80°   | 285.2  | 8.9       |
| 80°-90°   | 17.2   | 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°    | 3205.0 | 100.0     |
| 0°-180°   | 3205.0 | 100.0     |

**Coefficient of Utilization**



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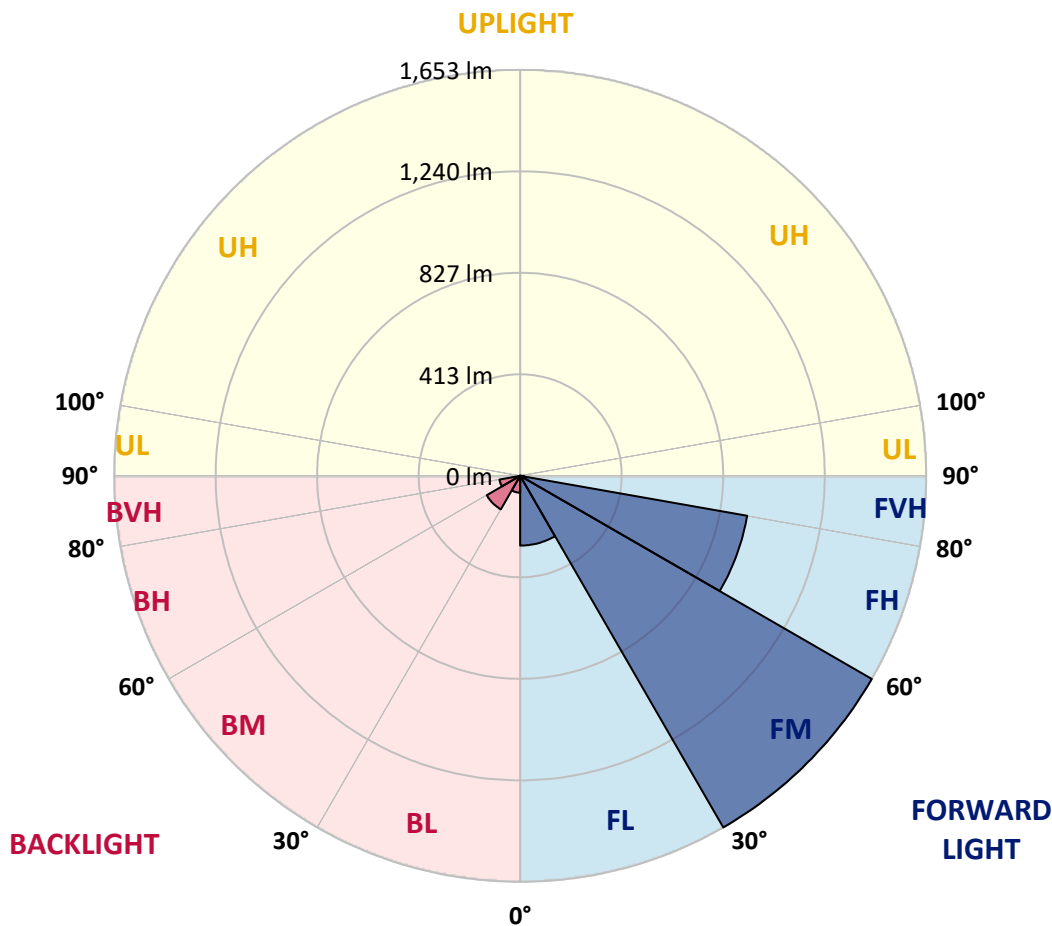
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 284.0  | 8.9       |                         |      |         |
| FM   | (30°-60°)   | 1653.3 | 51.6      |                         |      |         |
| FH   | (60°-80°)   | 938.6  | 29.3      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 14.9   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 68.5   | 2.1       | B0/110                  |      |         |
| BM   | (30°-60°)   | 157.5  | 4.9       | B0/220                  |      |         |
| BH   | (60°-80°)   | 85.9   | 2.7       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 2.3    | 0.1       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B0-U0-G1**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 74°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 349.9  | 349.9  | 349.9  | 349.9  | 349.9  | 349.9  | 349.9  | 349.9  | 349.9  | 349.9  | 349.9  |
| 2.5°  | 420.1  | 416.6  | 410.3  | 409.7  | 404.5  | 398.2  | 387.3  | 375.7  | 367.7  | 366.5  | 356.8  |
| 5°    | 502.9  | 501.2  | 494.9  | 490.8  | 481.0  | 466.1  | 440.8  | 415.5  | 394.2  | 391.9  | 370.0  |
| 7.5°  | 524.8  | 525.9  | 527.1  | 531.1  | 527.7  | 520.8  | 501.8  | 466.1  | 432.7  | 427.5  | 389.6  |
| 10°   | 528.2  | 527.1  | 527.1  | 532.3  | 542.0  | 551.8  | 549.5  | 519.0  | 475.9  | 469.5  | 416.6  |
| 12.5° | 565.6  | 567.4  | 563.3  | 561.0  | 559.3  | 564.5  | 581.7  | 568.5  | 521.3  | 516.1  | 449.4  |
| 15°   | 614.0  | 613.4  | 607.6  | 607.6  | 602.5  | 593.8  | 604.8  | 614.5  | 576.0  | 569.7  | 486.8  |
| 17.5° | 649.1  | 651.4  | 650.8  | 654.2  | 652.5  | 641.0  | 635.3  | 655.4  | 632.4  | 624.3  | 529.4  |
| 20°   | 677.3  | 683.6  | 685.9  | 696.8  | 702.0  | 694.0  | 679.0  | 691.7  | 686.5  | 679.0  | 572.5  |
| 22.5° | 707.2  | 712.4  | 716.4  | 735.4  | 749.8  | 748.0  | 729.1  | 726.2  | 738.8  | 731.9  | 615.1  |
| 25°   | 737.1  | 739.4  | 751.5  | 774.5  | 797.5  | 803.3  | 783.7  | 761.3  | 786.0  | 779.7  | 653.1  |
| 27.5° | 769.9  | 771.1  | 785.4  | 813.6  | 845.9  | 857.9  | 842.4  | 801.0  | 822.3  | 822.3  | 687.6  |
| 30°   | 829.8  | 841.3  | 847.0  | 872.3  | 900.5  | 917.2  | 898.8  | 843.0  | 854.5  | 859.7  | 723.9  |
| 32.5° | 958.6  | 960.4  | 958.6  | 969.6  | 975.3  | 985.1  | 963.8  | 890.2  | 887.3  | 893.0  | 759.6  |
| 35°   | 1155.4 | 1148.5 | 1130.1 | 1114.0 | 1080.6 | 1062.2 | 1034.6 | 950.6  | 927.6  | 935.6  | 794.7  |
| 37.5° | 1394.2 | 1384.5 | 1342.4 | 1293.0 | 1221.6 | 1148.0 | 1113.4 | 1024.2 | 978.8  | 989.1  | 832.6  |
| 40°   | 1622.1 | 1615.8 | 1565.7 | 1504.7 | 1382.7 | 1256.7 | 1183.6 | 1086.4 | 1035.8 | 1039.8 | 871.2  |
| 42.5° | 1809.7 | 1808.5 | 1766.5 | 1702.7 | 1546.1 | 1374.1 | 1266.5 | 1147.4 | 1095.6 | 1101.9 | 911.5  |
| 45°   | 1951.8 | 1940.9 | 1909.8 | 1863.8 | 1704.4 | 1496.1 | 1366.6 | 1240.0 | 1191.7 | 1199.2 | 971.9  |
| 47.5° | 1951.8 | 1953.5 | 1973.7 | 1969.1 | 1814.9 | 1610.6 | 1475.9 | 1356.8 | 1333.8 | 1340.7 | 1071.4 |
| 50°   | 1793.0 | 1809.1 | 1898.9 | 1974.3 | 1872.4 | 1699.8 | 1593.9 | 1503.0 | 1526.6 | 1536.9 | 1245.2 |
| 52.5° | 1478.8 | 1505.9 | 1661.8 | 1833.9 | 1829.8 | 1744.7 | 1715.9 | 1688.8 | 1794.7 | 1813.1 | 1501.8 |
| 55°   | 1123.8 | 1141.6 | 1344.7 | 1570.9 | 1644.5 | 1707.8 | 1822.3 | 1924.8 | 2149.8 | 2145.7 | 1762.5 |
| 57.5° | 839.5  | 856.2  | 1031.1 | 1282.0 | 1379.3 | 1548.4 | 1877.0 | 2194.6 | 2501.9 | 2517.4 | 2007.1 |
| 60°   | 617.4  | 630.1  | 779.1  | 985.1  | 1125.5 | 1304.5 | 1855.1 | 2460.5 | 2907.6 | 2889.7 | 2222.8 |
| 62.5° | 456.9  | 463.8  | 571.4  | 705.5  | 891.9  | 1062.8 | 1717.6 | 2642.3 | 3231.5 | 3195.3 | 2343.1 |
| 65°   | 353.3  | 355.6  | 411.4  | 482.8  | 648.5  | 826.3  | 1512.8 | 2669.9 | 3410.5 | 3371.9 | 2340.8 |
| 66°   | 314.8  | 316.5  | 357.3  | 412.6  | 551.8  | 723.3  | 1423.0 | 2625.6 | 3438.7 | 3397.8 | 2312.0 |
| 67.5° | 264.1  | 263.0  | 287.1  | 323.4  | 414.3  | 558.2  | 1263.6 | 2496.2 | 3405.3 | 3384.6 | 2220.0 |
| 70°   | 195.6  | 196.2  | 208.3  | 216.9  | 242.3  | 309.0  | 912.6  | 2165.3 | 3138.3 | 3137.2 | 1967.4 |
| 72.5° | 145.0  | 146.7  | 155.9  | 157.7  | 151.3  | 167.4  | 525.9  | 1722.2 | 2510.5 | 2511.1 | 1470.8 |
| 75°   | 108.8  | 111.6  | 114.5  | 115.7  | 109.9  | 105.9  | 237.6  | 1158.9 | 1651.4 | 1639.4 | 832.6  |
| 77.5° | 82.9   | 84.0   | 86.3   | 84.6   | 83.4   | 73.1   | 99.0   | 565.1  | 815.4  | 742.9  | 269.9  |
| 80°   | 60.4   | 60.4   | 62.7   | 60.4   | 59.8   | 52.4   | 54.1   | 181.3  | 239.4  | 199.1  | 58.1   |
| 82.5° | 38.0   | 37.4   | 39.1   | 38.6   | 37.4   | 33.4   | 31.6   | 50.6   | 55.2   | 49.5   | 28.2   |
| 85°   | 21.3   | 20.7   | 20.1   | 19.6   | 17.8   | 15.0   | 17.3   | 19.0   | 25.3   | 25.9   | 20.1   |
| 87.5° | 7.5    | 7.5    | 6.9    | 6.3    | 5.2    | 5.2    | 6.3    | 6.3    | 9.2    | 9.2    | 10.4   |
| 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°    | 349.9  | 349.9  | 349.9 | 349.9 | 349.9 | 349.9 | 349.9 | 349.9 | 349.9 | 349.9 | 349.9 |
| 2.5°  | 352.2  | 345.8  | 336.6 | 324.5 | 315.9 | 307.3 | 298.1 | 292.9 | 285.4 | 283.7 | 286.0 |
| 5°    | 358.5  | 347.0  | 324.0 | 298.6 | 276.8 | 257.2 | 238.8 | 227.9 | 216.9 | 212.9 | 214.6 |
| 7.5°  | 371.7  | 352.2  | 313.0 | 272.2 | 235.9 | 206.6 | 184.7 | 172.0 | 162.3 | 158.2 | 159.4 |
| 10°   | 391.3  | 361.4  | 302.7 | 242.3 | 195.6 | 164.6 | 146.2 | 138.1 | 132.3 | 130.0 | 130.6 |
| 12.5° | 414.9  | 374.6  | 289.4 | 212.3 | 161.1 | 134.1 | 125.4 | 123.7 | 122.6 | 121.4 | 122.0 |
| 15°   | 441.3  | 386.1  | 273.9 | 183.0 | 134.1 | 119.1 | 116.2 | 115.7 | 115.1 | 115.1 | 115.1 |
| 17.5° | 469.0  | 396.5  | 256.6 | 155.4 | 116.8 | 109.9 | 108.2 | 108.2 | 108.2 | 108.8 | 108.8 |
| 20°   | 494.9  | 404.5  | 236.5 | 130.6 | 107.0 | 101.3 | 100.1 | 100.1 | 100.7 | 101.3 | 101.3 |
| 22.5° | 520.2  | 408.0  | 212.9 | 113.4 | 99.0  | 93.8  | 92.1  | 92.1  | 92.1  | 92.6  | 92.6  |
| 25°   | 542.0  | 408.0  | 189.3 | 102.4 | 92.1  | 86.9  | 84.6  | 84.0  | 84.6  | 84.6  | 84.6  |
| 27.5° | 560.5  | 406.2  | 166.3 | 94.9  | 85.2  | 80.0  | 77.7  | 77.1  | 78.3  | 78.8  | 78.8  |
| 30°   | 580.0  | 403.9  | 147.9 | 88.0  | 79.4  | 74.2  | 71.9  | 71.9  | 73.7  | 76.0  | 76.0  |
| 32.5° | 599.0  | 405.7  | 133.5 | 82.3  | 73.7  | 69.6  | 67.3  | 67.9  | 71.4  | 74.8  | 74.8  |
| 35°   | 619.1  | 409.1  | 124.9 | 78.3  | 69.6  | 65.6  | 63.9  | 65.6  | 69.1  | 72.5  | 72.5  |
| 37.5° | 639.3  | 413.1  | 119.7 | 74.8  | 66.2  | 62.1  | 61.0  | 63.3  | 67.3  | 70.8  | 71.4  |
| 40°   | 660.6  | 416.6  | 113.9 | 71.4  | 63.9  | 59.3  | 58.7  | 61.0  | 66.2  | 69.6  | 70.2  |
| 42.5° | 687.0  | 423.5  | 107.0 | 68.5  | 61.6  | 55.8  | 56.4  | 58.1  | 63.3  | 68.5  | 69.1  |
| 45°   | 738.8  | 445.4  | 100.1 | 65.6  | 58.7  | 54.1  | 52.9  | 54.1  | 59.8  | 65.6  | 66.7  |
| 47.5° | 836.1  | 494.9  | 92.6  | 62.7  | 55.8  | 52.9  | 48.3  | 49.5  | 54.7  | 61.0  | 61.6  |
| 50°   | 1022.5 | 600.2  | 88.6  | 59.8  | 53.5  | 48.9  | 43.7  | 43.7  | 47.8  | 53.5  | 53.5  |
| 52.5° | 1313.1 | 788.9  | 90.9  | 57.5  | 50.6  | 44.9  | 39.7  | 39.1  | 41.4  | 45.5  | 45.5  |
| 55°   | 1626.7 | 996.0  | 99.5  | 55.2  | 47.2  | 42.6  | 36.8  | 33.9  | 35.7  | 38.0  | 38.0  |
| 57.5° | 1875.3 | 1100.2 | 123.1 | 54.1  | 43.2  | 40.9  | 33.4  | 29.3  | 31.1  | 33.4  | 33.4  |
| 60°   | 1984.6 | 1039.2 | 149.6 | 55.2  | 40.3  | 38.0  | 29.9  | 25.9  | 28.8  | 31.1  | 31.6  |
| 62.5° | 1896.0 | 855.6  | 160.5 | 52.4  | 36.3  | 33.9  | 29.3  | 24.2  | 27.6  | 29.3  | 29.9  |
| 65°   | 1704.4 | 650.2  | 125.4 | 45.5  | 33.4  | 29.3  | 26.5  | 23.0  | 25.9  | 27.6  | 27.6  |
| 66°   | 1613.5 | 566.8  | 107.0 | 42.0  | 32.2  | 27.6  | 25.3  | 23.0  | 25.3  | 26.5  | 27.0  |
| 67.5° | 1472.5 | 447.1  | 79.4  | 36.8  | 29.9  | 25.3  | 23.6  | 21.9  | 24.2  | 25.3  | 25.3  |
| 70°   | 1151.4 | 266.4  | 47.8  | 28.8  | 25.9  | 22.4  | 21.3  | 20.1  | 21.9  | 22.4  | 22.4  |
| 72.5° | 721.0  | 126.6  | 30.5  | 21.3  | 21.9  | 21.3  | 17.8  | 19.0  | 19.6  | 20.1  | 20.1  |
| 75°   | 349.3  | 50.1   | 20.7  | 15.5  | 17.8  | 20.1  | 14.4  | 16.7  | 17.3  | 18.4  | 17.8  |
| 77.5° | 97.2   | 24.2   | 13.2  | 11.5  | 15.5  | 15.5  | 10.9  | 13.2  | 15.5  | 19.6  | 17.8  |
| 80°   | 28.2   | 15.5   | 8.6   | 8.6   | 10.9  | 10.9  | 7.5   | 9.2   | 10.4  | 11.5  | 12.1  |
| 82.5° | 19.6   | 10.4   | 5.8   | 6.3   | 6.3   | 6.9   | 4.6   | 4.6   | 5.8   | 5.8   | 6.3   |
| 85°   | 15.5   | 4.6    | 3.5   | 4.0   | 2.9   | 3.5   | 2.3   | 2.3   | 2.9   | 2.3   | 2.3   |
| 87.5° | 6.3    | 2.3    | 2.3   | 2.3   | 1.7   | 1.7   | 1.2   | 0.6   | 0.6   | 0.6   | 0.6   |
| 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)