

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: P1209961

Luminaire Tested: **ARCH1-30-750-U-T2RE**

Issue Date: 11/5/2025

### Test Information

Test Method: LM-79-08  
Report Number: P1209961  
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: ARCH1-30-750-U-T2RE  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 5000K, 950mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY  
ILLUMINANCE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

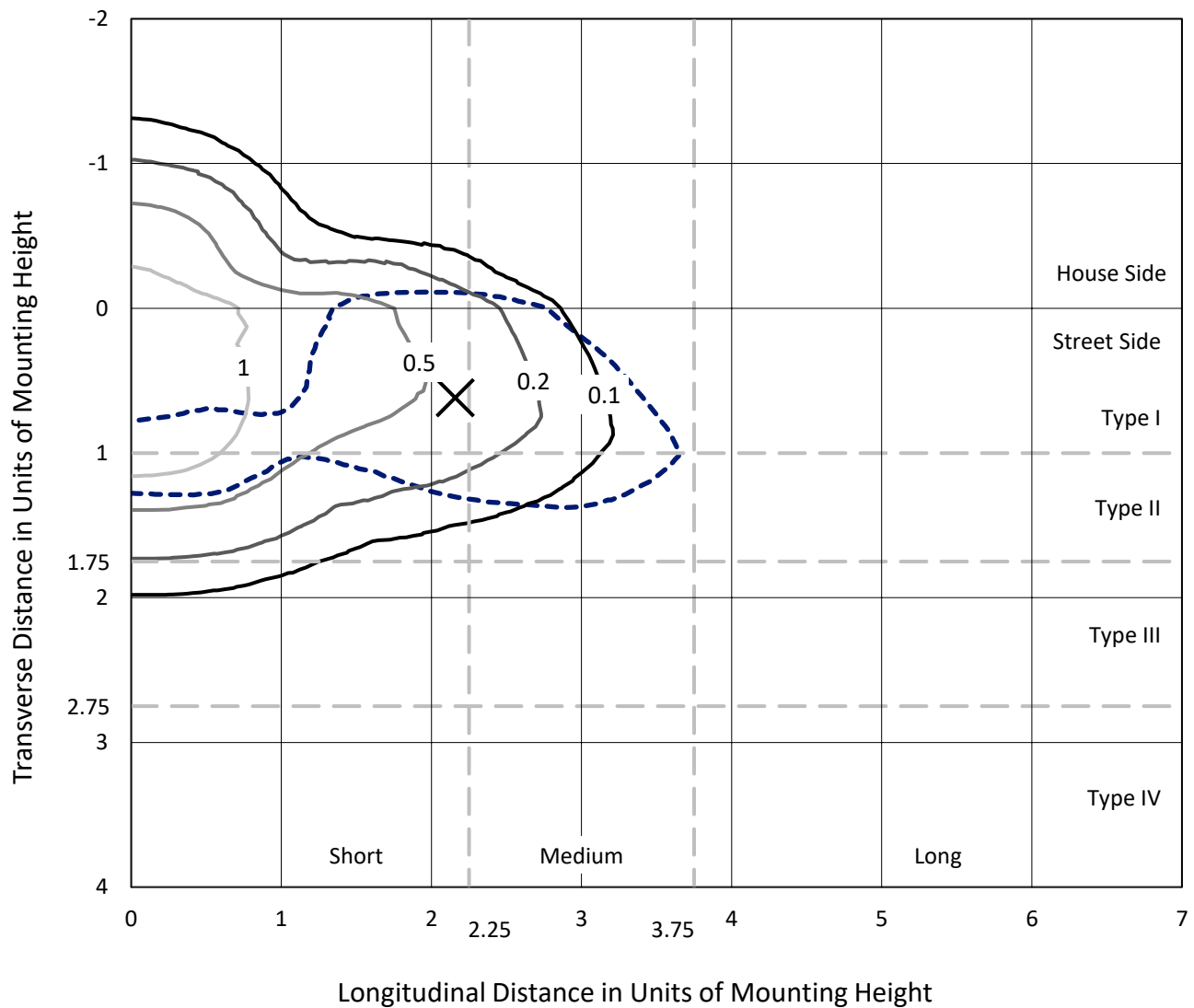
Lumens per Lamp: N/A  
Luminaire Lumens: 4866 lumens  
Efficiency: N/A  
Efficacy: 147.5 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
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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## Iso-Footcandle Lines of Horizontal Illumination

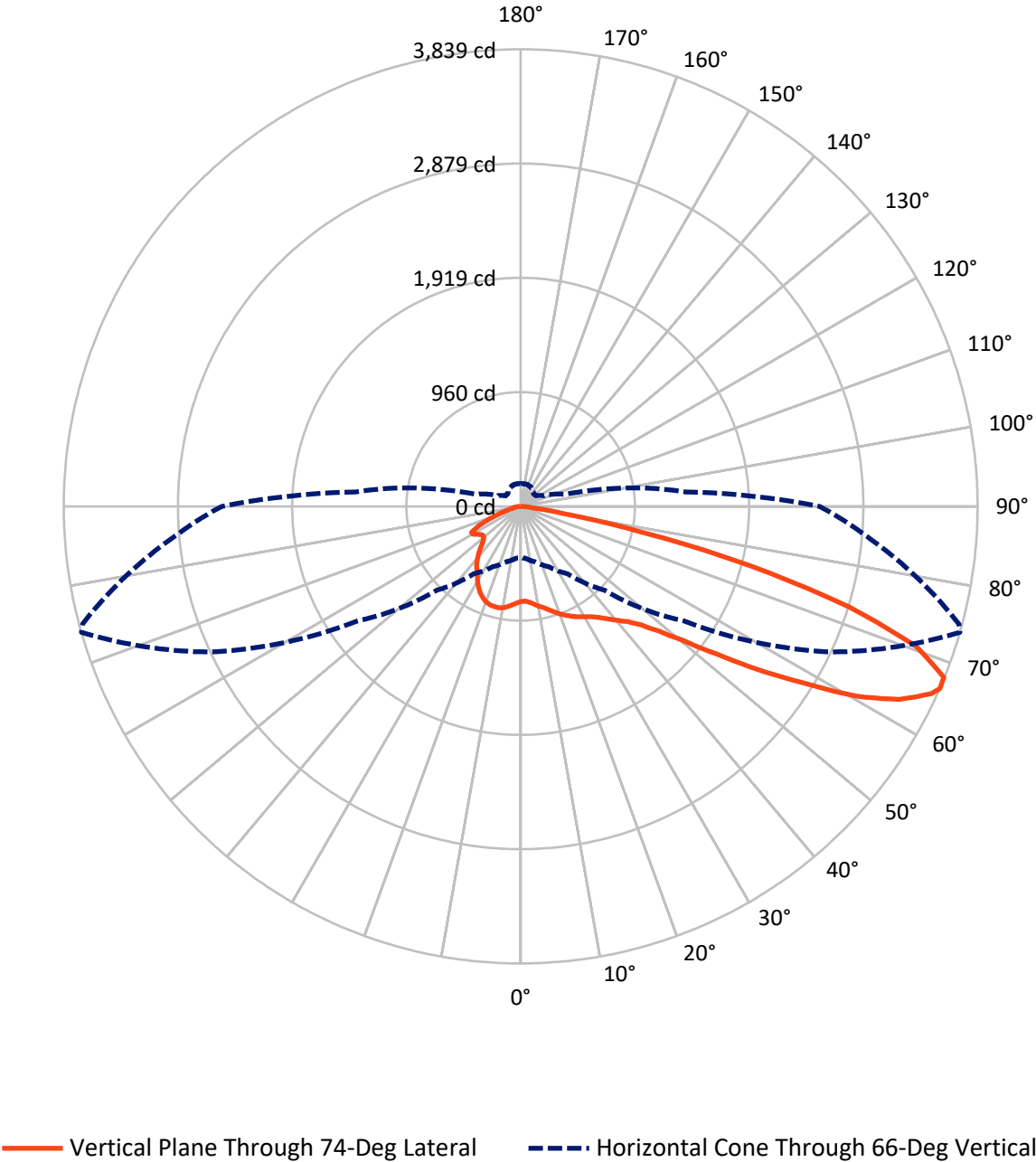
✕ Max cd  
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1185.0   | 0.0    | 1185.0 |
|                    | % Fixture | 24.4     | 0.0    | 24.4   |
| <b>Street Side</b> | Lumens    | 3681.0   | 0.0    | 3681.0 |
|                    | % Fixture | 75.6     | 0.0    | 75.6   |
| <b>Total</b>       | Lumens    | 4866.0   | 0.0    | 4866.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 76.1   | 1.6       |
| 10°-20°   | 234.0  | 4.8       |
| 20°-30°   | 439.1  | 9.0       |
| 30°-40°   | 675.5  | 13.9      |
| 40°-50°   | 908.5  | 18.7      |
| 50°-60°   | 1074.5 | 22.1      |
| 60°-70°   | 993.9  | 20.4      |
| 70°-80°   | 418.1  | 8.6       |
| 80°-90°   | 46.3   | 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°    | 4866.0 | 100.0     |
| 0°-180°   | 4866.0 | 100.0     |

**Coefficient of Utilization**



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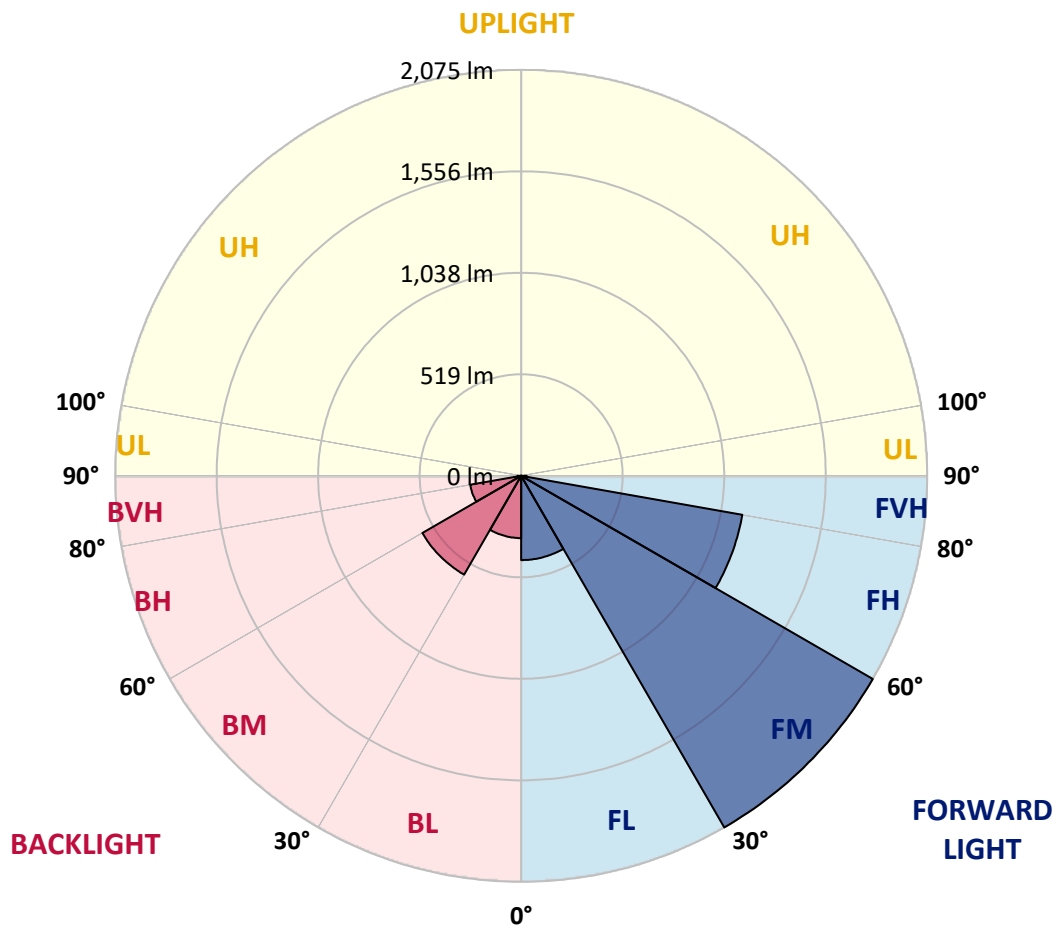
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 430.7  | 8.9       |                         |      |         |
| FM   | (30°-60°)   | 2075.1 | 42.6      |                         |      |         |
| FH   | (60°-80°)   | 1147.5 | 23.6      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 27.7   | 0.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 318.5  | 6.5       | B1/500                  |      |         |
| BM   | (30°-60°)   | 583.4  | 12.0      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 264.5  | 5.4       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 18.6   | 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°    | 797.7  | 797.7  | 797.7  | 797.7  | 797.7  | 797.7  | 797.7  | 797.7  | 797.7  | 797.7  | 797.7  |
| 2.5°  | 795.2  | 793.9  | 796.4  | 800.2  | 802.1  | 799.0  | 797.7  | 797.1  | 797.1  | 795.2  | 798.3  |
| 5°    | 757.6  | 757.0  | 762.6  | 769.5  | 782.7  | 792.1  | 804.6  | 812.1  | 809.6  | 805.8  | 808.3  |
| 7.5°  | 708.8  | 707.5  | 714.4  | 727.6  | 745.7  | 766.4  | 797.1  | 820.9  | 830.3  | 829.0  | 828.4  |
| 10°   | 727.6  | 726.3  | 725.7  | 721.9  | 728.2  | 748.2  | 780.2  | 822.1  | 854.1  | 854.7  | 855.3  |
| 12.5° | 792.7  | 795.8  | 792.7  | 780.8  | 767.0  | 759.5  | 778.3  | 825.2  | 874.1  | 877.8  | 893.5  |
| 15°   | 881.6  | 878.5  | 872.2  | 858.4  | 837.1  | 814.6  | 800.8  | 839.7  | 902.9  | 906.0  | 940.5  |
| 17.5° | 959.9  | 962.4  | 958.6  | 945.5  | 920.4  | 891.0  | 849.0  | 864.7  | 933.6  | 942.3  | 990.5  |
| 20°   | 1045.0 | 1055.0 | 1050.0 | 1033.8 | 1013.1 | 969.3  | 916.7  | 901.0  | 967.4  | 973.6  | 1042.5 |
| 22.5° | 1143.3 | 1154.0 | 1144.6 | 1128.9 | 1112.0 | 1058.2 | 990.5  | 945.5  | 995.6  | 1008.7 | 1092.6 |
| 25°   | 1261.0 | 1271.1 | 1262.3 | 1237.9 | 1216.6 | 1150.8 | 1070.1 | 995.6  | 1023.1 | 1037.5 | 1133.3 |
| 27.5° | 1354.3 | 1361.8 | 1370.0 | 1355.6 | 1323.0 | 1254.8 | 1152.7 | 1047.5 | 1050.7 | 1065.7 | 1170.9 |
| 30°   | 1437.6 | 1456.4 | 1463.3 | 1465.2 | 1437.6 | 1361.2 | 1237.2 | 1101.4 | 1074.5 | 1090.1 | 1208.4 |
| 32.5° | 1551.6 | 1579.7 | 1568.5 | 1579.7 | 1563.5 | 1461.4 | 1324.9 | 1157.1 | 1105.1 | 1119.5 | 1244.1 |
| 35°   | 1718.1 | 1740.7 | 1711.2 | 1702.5 | 1676.2 | 1562.8 | 1409.4 | 1214.7 | 1145.8 | 1161.5 | 1277.9 |
| 37.5° | 1897.2 | 1922.9 | 1880.3 | 1845.2 | 1795.1 | 1663.0 | 1482.1 | 1290.5 | 1202.2 | 1214.7 | 1309.3 |
| 40°   | 2053.7 | 2075.0 | 2038.1 | 1991.7 | 1907.8 | 1751.3 | 1544.7 | 1343.7 | 1258.5 | 1274.2 | 1345.6 |
| 42.5° | 2198.4 | 2212.1 | 2170.8 | 2126.4 | 2014.3 | 1830.8 | 1612.3 | 1400.0 | 1324.3 | 1339.3 | 1375.0 |
| 45°   | 2344.9 | 2355.5 | 2297.9 | 2234.7 | 2103.2 | 1903.5 | 1686.8 | 1478.9 | 1420.7 | 1440.7 | 1422.6 |
| 47.5° | 2371.2 | 2374.3 | 2364.3 | 2321.7 | 2173.3 | 1973.0 | 1778.9 | 1584.8 | 1567.8 | 1589.8 | 1504.6 |
| 50°   | 2189.0 | 2217.2 | 2279.1 | 2321.1 | 2201.5 | 2031.2 | 1870.9 | 1736.3 | 1770.7 | 1798.9 | 1674.9 |
| 52.5° | 1835.2 | 1862.1 | 2005.5 | 2164.6 | 2133.9 | 2044.3 | 1969.8 | 1928.5 | 2056.9 | 2090.7 | 1906.6 |
| 55°   | 1462.0 | 1485.8 | 1637.3 | 1866.5 | 1915.4 | 1984.2 | 2075.6 | 2173.9 | 2421.9 | 2444.4 | 2160.8 |
| 57.5° | 1204.1 | 1217.2 | 1325.5 | 1545.9 | 1624.2 | 1792.0 | 2132.6 | 2465.7 | 2793.2 | 2827.6 | 2381.8 |
| 60°   | 987.4  | 1001.8 | 1082.6 | 1264.2 | 1368.1 | 1517.1 | 2087.5 | 2753.8 | 3236.5 | 3236.5 | 2665.5 |
| 62.5° | 743.2  | 755.7  | 830.9  | 973.0  | 1147.7 | 1284.2 | 1943.5 | 2944.7 | 3570.9 | 3555.8 | 2870.8 |
| 65°   | 510.3  | 520.3  | 574.8  | 669.3  | 826.5  | 1094.5 | 1746.9 | 2947.2 | 3792.5 | 3772.5 | 2958.5 |
| 66°   | 428.3  | 437.0  | 483.4  | 559.8  | 691.9  | 993.1  | 1677.4 | 2894.0 | 3838.8 | 3810.7 | 2921.6 |
| 67.5° | 338.1  | 344.4  | 375.1  | 420.1  | 507.2  | 804.0  | 1567.8 | 2743.1 | 3834.5 | 3817.6 | 2827.6 |
| 70°   | 241.7  | 246.1  | 268.6  | 278.0  | 299.9  | 465.2  | 1245.4 | 2402.5 | 3527.0 | 3532.0 | 2458.2 |
| 72.5° | 187.2  | 194.1  | 207.9  | 209.8  | 204.7  | 247.3  | 755.7  | 2004.3 | 2885.2 | 2883.4 | 1824.6 |
| 75°   | 150.9  | 154.7  | 161.5  | 165.3  | 164.0  | 159.7  | 320.0  | 1495.2 | 1986.1 | 2009.3 | 1021.9 |
| 77.5° | 119.0  | 118.3  | 124.6  | 129.6  | 133.4  | 125.2  | 146.5  | 876.6  | 1041.3 | 1011.8 | 383.8  |
| 80°   | 87.7   | 87.7   | 96.4   | 98.3   | 103.9  | 105.2  | 97.7   | 338.1  | 357.5  | 325.0  | 99.6   |
| 82.5° | 57.6   | 57.6   | 67.0   | 68.2   | 73.9   | 82.0   | 70.8   | 101.4  | 98.9   | 93.9   | 45.1   |
| 85°   | 31.3   | 30.1   | 33.2   | 37.6   | 40.7   | 48.2   | 42.6   | 50.7   | 52.0   | 51.3   | 30.1   |
| 87.5° | 6.3    | 5.6    | 8.8    | 10.0   | 11.3   | 15.0   | 13.8   | 20.7   | 28.8   | 28.2   | 13.1   |
| 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°    | 797.7  | 797.7  | 797.7 | 797.7 | 797.7 | 797.7 | 797.7 | 797.7 | 797.7 | 797.7 | 797.7 |
| 2.5°  | 802.7  | 802.1  | 809.0 | 817.1 | 826.5 | 832.1 | 834.6 | 839.0 | 835.9 | 837.1 | 840.9 |
| 5°    | 814.6  | 816.5  | 826.5 | 837.1 | 841.5 | 838.4 | 831.5 | 829.0 | 823.4 | 822.1 | 820.9 |
| 7.5°  | 832.1  | 835.3  | 845.3 | 847.8 | 834.6 | 812.7 | 797.1 | 788.3 | 778.9 | 776.4 | 775.2 |
| 10°   | 860.9  | 862.8  | 865.3 | 839.7 | 807.1 | 777.7 | 758.3 | 750.1 | 743.9 | 738.8 | 740.1 |
| 12.5° | 897.3  | 896.0  | 876.6 | 823.4 | 777.0 | 747.0 | 733.8 | 728.8 | 724.4 | 721.3 | 720.7 |
| 15°   | 943.0  | 934.2  | 878.5 | 800.8 | 748.9 | 723.8 | 714.4 | 712.5 | 707.5 | 707.5 | 706.9 |
| 17.5° | 989.3  | 966.8  | 877.2 | 777.0 | 721.9 | 708.2 | 702.5 | 701.3 | 700.0 | 699.4 | 701.3 |
| 20°   | 1035.6 | 995.6  | 867.2 | 747.6 | 703.2 | 695.0 | 693.8 | 694.4 | 693.1 | 695.0 | 693.8 |
| 22.5° | 1076.3 | 1014.3 | 848.4 | 716.3 | 690.0 | 689.4 | 686.2 | 687.5 | 691.9 | 692.5 | 694.4 |
| 25°   | 1107.6 | 1021.2 | 820.9 | 687.5 | 680.6 | 679.4 | 683.1 | 688.1 | 691.9 | 692.5 | 695.6 |
| 27.5° | 1133.3 | 1017.5 | 786.4 | 665.0 | 664.3 | 671.2 | 682.5 | 684.4 | 685.0 | 685.0 | 682.5 |
| 30°   | 1152.7 | 1009.3 | 742.6 | 639.9 | 643.0 | 659.9 | 670.6 | 670.6 | 665.6 | 664.3 | 668.1 |
| 32.5° | 1157.1 | 998.7  | 695.0 | 614.2 | 619.2 | 639.3 | 652.4 | 648.1 | 642.4 | 642.4 | 644.9 |
| 35°   | 1160.9 | 984.3  | 656.8 | 579.2 | 586.7 | 610.5 | 623.0 | 614.2 | 608.0 | 606.1 | 605.5 |
| 37.5° | 1159.6 | 978.7  | 622.4 | 534.7 | 544.7 | 567.9 | 576.0 | 567.9 | 558.5 | 554.1 | 559.8 |
| 40°   | 1160.9 | 974.9  | 579.2 | 485.9 | 495.9 | 509.7 | 520.3 | 514.1 | 505.3 | 494.0 | 499.7 |
| 42.5° | 1168.4 | 979.9  | 531.6 | 438.3 | 438.3 | 445.8 | 464.0 | 459.6 | 438.3 | 433.9 | 438.9 |
| 45°   | 1208.4 | 1006.8 | 484.0 | 390.7 | 383.8 | 388.8 | 407.6 | 388.8 | 375.7 | 375.7 | 380.1 |
| 47.5° | 1305.5 | 1056.9 | 442.1 | 348.8 | 332.5 | 342.5 | 347.5 | 330.0 | 320.0 | 317.5 | 321.8 |
| 50°   | 1503.4 | 1157.1 | 417.0 | 314.3 | 294.3 | 301.8 | 298.7 | 298.0 | 288.0 | 289.3 | 291.8 |
| 52.5° | 1803.9 | 1352.5 | 409.5 | 297.4 | 272.4 | 274.2 | 271.1 | 272.4 | 270.5 | 276.8 | 278.6 |
| 55°   | 2131.4 | 1558.5 | 418.9 | 299.9 | 257.3 | 244.2 | 245.4 | 251.7 | 259.2 | 269.2 | 271.1 |
| 57.5° | 2376.2 | 1661.8 | 443.3 | 316.8 | 238.6 | 218.5 | 221.7 | 233.5 | 248.0 | 256.1 | 260.5 |
| 60°   | 2558.4 | 1649.2 | 479.0 | 321.2 | 216.0 | 195.4 | 201.0 | 218.5 | 231.0 | 237.9 | 242.3 |
| 62.5° | 2617.9 | 1571.0 | 487.8 | 289.3 | 186.6 | 173.4 | 187.2 | 205.4 | 211.0 | 218.5 | 221.7 |
| 65°   | 2569.0 | 1460.2 | 423.9 | 234.8 | 164.0 | 157.2 | 177.2 | 191.0 | 198.5 | 202.2 | 202.9 |
| 66°   | 2511.4 | 1393.8 | 389.5 | 213.5 | 155.9 | 152.2 | 173.4 | 184.7 | 192.2 | 191.6 | 192.2 |
| 67.5° | 2385.0 | 1254.8 | 333.7 | 183.5 | 144.0 | 144.6 | 167.2 | 174.7 | 177.2 | 175.3 | 175.3 |
| 70°   | 1954.8 | 883.5  | 239.2 | 139.0 | 126.5 | 135.2 | 150.3 | 152.2 | 157.8 | 155.3 | 155.3 |
| 72.5° | 1205.3 | 433.9  | 160.3 | 106.4 | 112.7 | 126.5 | 125.9 | 132.1 | 145.3 | 149.0 | 151.5 |
| 75°   | 592.3  | 175.9  | 105.8 | 90.2  | 100.8 | 105.8 | 104.6 | 120.2 | 139.0 | 155.3 | 160.9 |
| 77.5° | 224.8  | 87.7   | 73.9  | 78.9  | 81.4  | 79.5  | 83.3  | 108.9 | 139.0 | 168.4 | 174.1 |
| 80°   | 69.5   | 60.7   | 58.2  | 65.1  | 61.4  | 58.2  | 62.6  | 90.2  | 117.7 | 127.7 | 127.7 |
| 82.5° | 42.0   | 47.6   | 45.1  | 44.5  | 41.3  | 42.0  | 45.1  | 64.5  | 90.8  | 95.2  | 95.2  |
| 85°   | 29.4   | 31.3   | 25.7  | 24.4  | 23.8  | 23.2  | 23.2  | 37.6  | 53.8  | 53.2  | 55.1  |
| 87.5° | 11.3   | 12.5   | 9.4   | 9.4   | 8.8   | 6.3   | 5.0   | 6.3   | 6.3   | 4.4   | 3.1   |
| 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)