

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: P1210362

Luminaire Tested: **ARCH3-100-727-U-T3RE-HSS**

Issue Date: 11/5/2025

### Test Information

Test Method: LM-79-08  
Report Number: P1210362  
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: ARCH3-100-727-U-T3RE-HSS  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2700K, 805mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY  
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 10507 lumens  
Efficiency: N/A  
Efficacy: 102.4 lumens/watt  
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 102.6  
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



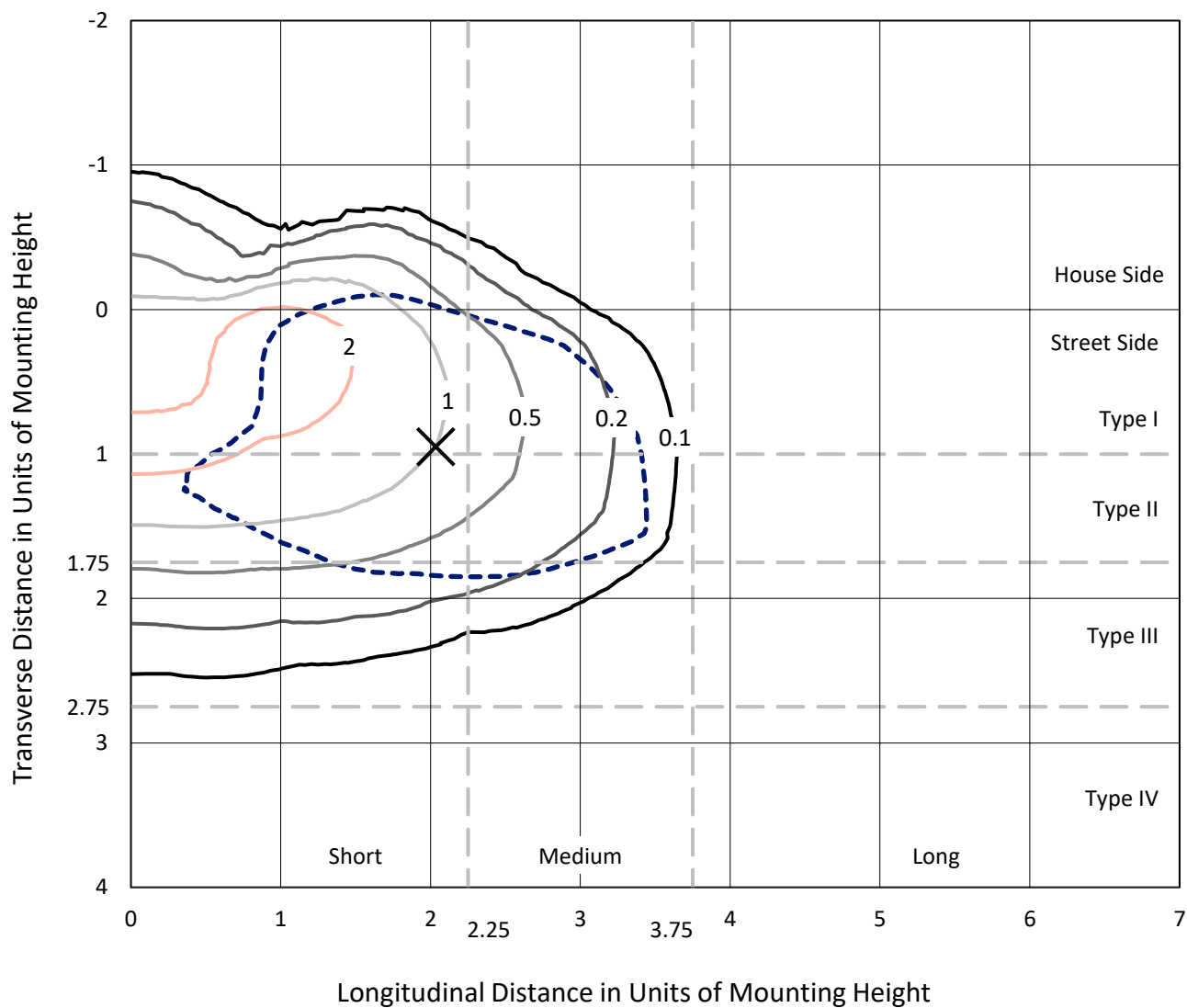
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

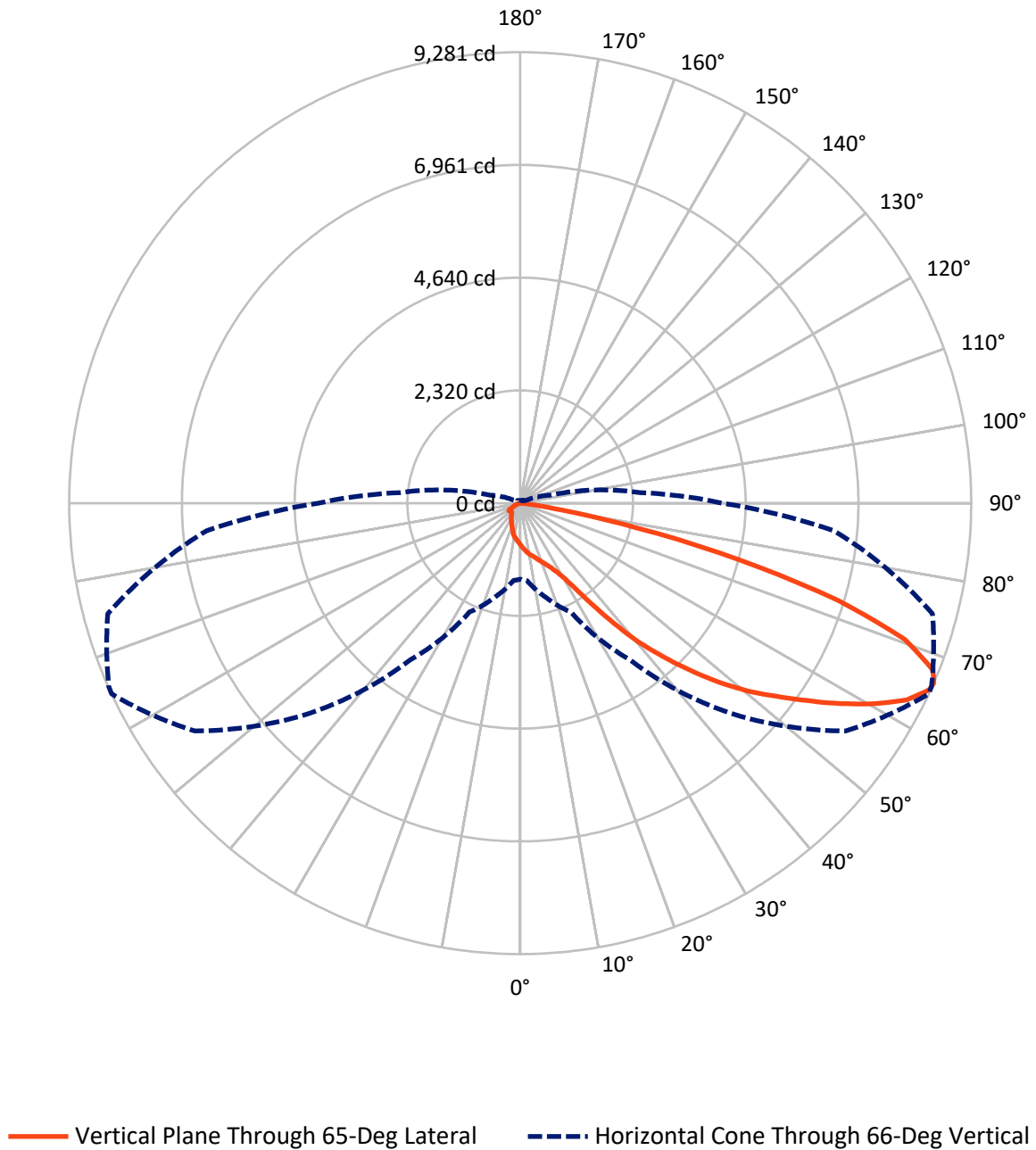
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc  
Type III - 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    | 1240.0   | 0.0    | 1240.0  |
|                    | % Fixture | 11.8     | 0.0    | 11.8    |
| <b>Street Side</b> | Lumens    | 9267.0   | 0.0    | 9267.0  |
|                    | % Fixture | 88.2     | 0.0    | 88.2    |
| <b>Total</b>       | Lumens    | 10507.0  | 0.0    | 10507.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 81.2    | 0.8       |
| 10°-20°   | 240.2   | 2.3       |
| 20°-30°   | 439.7   | 4.2       |
| 30°-40°   | 893.5   | 8.5       |
| 40°-50°   | 1886.8  | 18.0      |
| 50°-60°   | 2900.6  | 27.6      |
| 60°-70°   | 2919.6  | 27.8      |
| 70°-80°   | 1090.9  | 10.4      |
| 80°-90°   | 54.5    | 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°    | 10507.0 | 100.0     |
| 0°-180°   | 10507.0 | 100.0     |

**Coefficient of Utilization**



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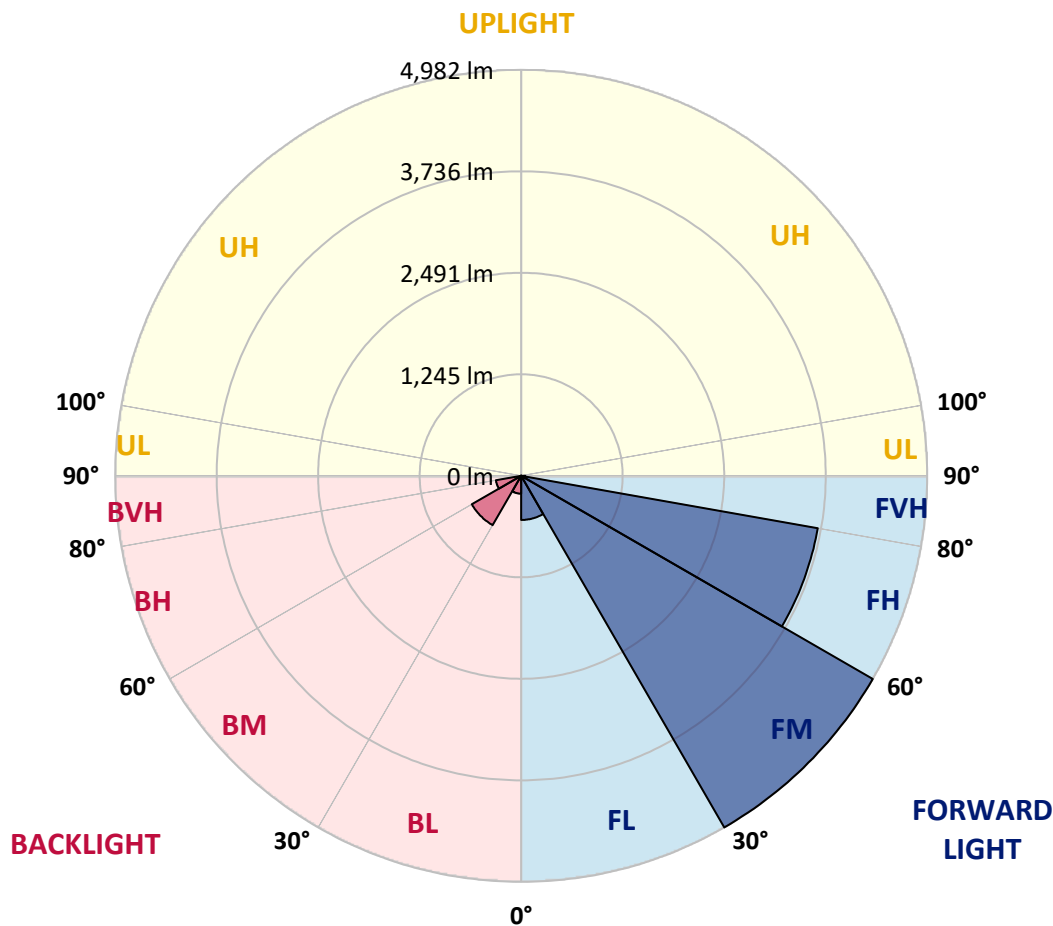
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 541.6  | 5.2       |                         |      |         |
| FM   | (30°-60°)   | 4981.7 | 47.4      |                         |      |         |
| FH   | (60°-80°)   | 3695.6 | 35.2      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 48.1   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 219.5  | 2.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 699.1  | 6.7       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 315.0  | 3.0       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 6.4    | 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°    | 856.0  | 856.0  | 856.0  | 856.0  | 856.0  | 856.0  | 856.0  | 856.0  | 856.0  | 856.0  | 856.0  |
| 2.5°  | 976.1  | 978.0  | 974.2  | 966.6  | 959.0  | 949.4  | 934.2  | 909.4  | 905.6  | 888.4  | 869.4  |
| 5°    | 1042.9 | 1046.7 | 1041.0 | 1039.1 | 1035.2 | 1021.9 | 1000.9 | 964.7  | 960.9  | 926.6  | 882.7  |
| 7.5°  | 1065.7 | 1071.5 | 1067.6 | 1067.6 | 1067.6 | 1061.9 | 1052.4 | 1020.0 | 1014.3 | 970.4  | 903.7  |
| 10°   | 1082.9 | 1086.7 | 1084.8 | 1092.4 | 1098.2 | 1094.3 | 1088.6 | 1069.6 | 1063.8 | 1020.0 | 932.3  |
| 12.5° | 1109.6 | 1111.5 | 1113.4 | 1117.2 | 1126.7 | 1130.6 | 1128.7 | 1111.5 | 1107.7 | 1077.2 | 968.5  |
| 15°   | 1134.4 | 1134.4 | 1136.3 | 1153.4 | 1166.8 | 1174.4 | 1176.3 | 1163.0 | 1159.2 | 1134.4 | 1014.3 |
| 17.5° | 1157.3 | 1159.2 | 1164.9 | 1183.9 | 1206.8 | 1222.1 | 1231.6 | 1225.9 | 1220.2 | 1201.1 | 1067.6 |
| 20°   | 1191.6 | 1195.4 | 1201.1 | 1227.8 | 1250.7 | 1275.5 | 1294.5 | 1292.6 | 1290.7 | 1277.4 | 1130.6 |
| 22.5° | 1250.7 | 1254.5 | 1264.0 | 1288.8 | 1311.7 | 1342.2 | 1374.6 | 1372.7 | 1367.0 | 1357.4 | 1204.9 |
| 25°   | 1340.3 | 1340.3 | 1346.0 | 1367.0 | 1395.6 | 1431.8 | 1462.3 | 1468.0 | 1462.3 | 1456.6 | 1298.3 |
| 27.5° | 1452.8 | 1454.7 | 1454.7 | 1477.5 | 1504.2 | 1550.0 | 1588.1 | 1593.8 | 1593.8 | 1588.1 | 1424.2 |
| 30°   | 1609.1 | 1603.4 | 1599.6 | 1618.6 | 1647.2 | 1714.0 | 1780.7 | 1792.1 | 1786.4 | 1795.9 | 1601.5 |
| 32.5° | 1877.9 | 1868.4 | 1836.0 | 1839.8 | 1856.9 | 1948.5 | 2060.9 | 2101.0 | 2099.1 | 2116.2 | 1887.4 |
| 35°   | 2249.7 | 2230.6 | 2183.0 | 2142.9 | 2141.0 | 2240.2 | 2411.7 | 2562.4 | 2560.4 | 2619.6 | 2322.1 |
| 37.5° | 2669.1 | 2693.9 | 2604.3 | 2535.7 | 2514.7 | 2592.9 | 2814.0 | 3140.0 | 3157.2 | 3260.1 | 2892.2 |
| 40°   | 3229.6 | 3244.9 | 3130.5 | 3033.3 | 2934.1 | 2962.7 | 3254.4 | 3761.6 | 3792.1 | 3906.4 | 3462.2 |
| 42.5° | 3717.7 | 3733.0 | 3666.2 | 3548.0 | 3422.2 | 3368.8 | 3698.6 | 4325.9 | 4350.7 | 4508.9 | 4049.4 |
| 45°   | 4049.4 | 4060.9 | 4083.8 | 4095.2 | 3952.2 | 3841.6 | 4242.0 | 4905.5 | 4936.0 | 5119.0 | 4623.3 |
| 47.5° | 4308.7 | 4318.3 | 4364.0 | 4478.4 | 4449.8 | 4362.1 | 4794.9 | 5507.9 | 5515.5 | 5719.5 | 5181.9 |
| 50°   | 4428.8 | 4451.7 | 4564.2 | 4739.6 | 4865.4 | 4890.2 | 5395.4 | 6078.0 | 6098.9 | 6293.4 | 5710.0 |
| 52.5° | 4295.4 | 4303.0 | 4587.1 | 4916.9 | 5170.5 | 5422.1 | 5997.9 | 6606.1 | 6667.1 | 6812.0 | 6184.7 |
| 55°   | 3845.4 | 3900.7 | 4331.6 | 4911.2 | 5410.7 | 5927.4 | 6642.3 | 7176.1 | 7231.4 | 7322.9 | 6602.3 |
| 57.5° | 3323.1 | 3384.1 | 3908.4 | 4665.2 | 5513.6 | 6394.4 | 7239.0 | 7782.4 | 7820.5 | 7845.3 | 6985.5 |
| 60°   | 2871.2 | 2928.4 | 3467.9 | 4194.3 | 5410.7 | 6724.3 | 7793.8 | 8384.8 | 8417.3 | 8350.5 | 7178.0 |
| 62.5° | 2316.4 | 2373.6 | 2917.0 | 3570.9 | 5006.5 | 6791.0 | 8205.6 | 8920.6 | 8933.9 | 8752.8 | 7059.8 |
| 65°   | 1746.4 | 1784.5 | 2238.2 | 2798.8 | 4299.2 | 6436.4 | 8299.1 | 9254.2 | 9240.9 | 8869.1 | 6705.2 |
| 66°   | 1565.2 | 1597.7 | 1998.0 | 2474.7 | 3931.2 | 6112.3 | 8173.2 | 9280.9 | 9267.6 | 8783.3 | 6472.6 |
| 67.5° | 1349.8 | 1359.3 | 1689.2 | 2024.7 | 3288.7 | 5424.0 | 7790.0 | 9158.9 | 9170.3 | 8546.9 | 6047.5 |
| 70°   | 1054.3 | 1052.4 | 1243.0 | 1408.9 | 2245.9 | 3858.8 | 6497.4 | 8390.6 | 8445.9 | 7654.7 | 5157.1 |
| 72.5° | 674.9  | 652.0  | 762.6  | 861.7  | 1307.9 | 2240.2 | 4737.7 | 6838.7 | 6932.1 | 6013.1 | 3841.6 |
| 75°   | 402.3  | 379.4  | 406.1  | 430.9  | 627.2  | 1077.2 | 2785.4 | 4653.8 | 4743.4 | 3855.0 | 2285.9 |
| 77.5° | 301.2  | 291.7  | 293.6  | 272.6  | 278.4  | 404.2  | 1271.6 | 2459.4 | 2524.2 | 1578.6 | 867.5  |
| 80°   | 230.7  | 205.9  | 192.6  | 202.1  | 183.0  | 160.1  | 472.8  | 846.5  | 886.5  | 373.7  | 181.1  |
| 82.5° | 154.4  | 133.5  | 123.9  | 135.4  | 116.3  | 89.6   | 114.4  | 164.0  | 160.1  | 101.0  | 70.5   |
| 85°   | 80.1   | 68.6   | 68.6   | 68.6   | 59.1   | 43.8   | 49.6   | 66.7   | 66.7   | 53.4   | 41.9   |
| 87.5° | 22.9   | 21.0   | 24.8   | 22.9   | 17.2   | 17.2   | 19.1   | 22.9   | 22.9   | 21.0   | 19.1   |
| 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°    | 856.0  | 856.0  | 856.0  | 856.0 | 856.0 | 856.0 | 856.0 | 856.0 | 856.0 | 856.0 | 856.0 |
| 2.5°  | 854.1  | 846.5  | 825.5  | 810.3 | 795.0 | 781.7 | 766.4 | 762.6 | 755.0 | 756.9 | 753.1 |
| 5°    | 859.8  | 838.9  | 802.6  | 768.3 | 741.6 | 718.8 | 690.2 | 678.7 | 663.5 | 657.7 | 653.9 |
| 7.5°  | 867.5  | 837.0  | 783.6  | 735.9 | 690.2 | 644.4 | 598.6 | 572.0 | 554.8 | 547.2 | 541.5 |
| 10°   | 884.6  | 844.6  | 774.0  | 699.7 | 621.5 | 556.7 | 510.9 | 491.9 | 480.4 | 478.5 | 476.6 |
| 12.5° | 907.5  | 856.0  | 764.5  | 653.9 | 551.0 | 490.0 | 461.4 | 455.7 | 453.8 | 453.8 | 451.8 |
| 15°   | 941.8  | 875.1  | 749.3  | 600.6 | 495.7 | 453.8 | 440.4 | 430.9 | 427.1 | 427.1 | 427.1 |
| 17.5° | 976.1  | 898.0  | 726.4  | 545.3 | 457.6 | 430.9 | 417.5 | 411.8 | 408.0 | 409.9 | 408.0 |
| 20°   | 1020.0 | 924.7  | 695.9  | 497.6 | 432.8 | 411.8 | 398.5 | 392.7 | 390.8 | 390.8 | 390.8 |
| 22.5° | 1069.6 | 955.2  | 657.7  | 461.4 | 411.8 | 392.7 | 379.4 | 373.7 | 369.9 | 371.8 | 371.8 |
| 25°   | 1136.3 | 993.3  | 617.7  | 425.2 | 390.8 | 373.7 | 358.4 | 350.8 | 350.8 | 352.7 | 354.6 |
| 27.5° | 1222.1 | 1039.1 | 577.7  | 402.3 | 371.8 | 354.6 | 337.5 | 329.8 | 331.7 | 335.5 | 335.5 |
| 30°   | 1347.9 | 1102.0 | 537.6  | 377.5 | 350.8 | 331.7 | 316.5 | 308.9 | 312.7 | 320.3 | 320.3 |
| 32.5° | 1527.1 | 1204.9 | 503.3  | 348.9 | 320.3 | 299.3 | 284.1 | 278.4 | 287.9 | 303.1 | 303.1 |
| 35°   | 1847.4 | 1393.7 | 482.3  | 320.3 | 287.9 | 263.1 | 244.0 | 238.3 | 251.7 | 270.7 | 270.7 |
| 37.5° | 2276.4 | 1696.8 | 490.0  | 295.5 | 261.2 | 232.6 | 211.6 | 204.0 | 213.5 | 230.7 | 236.4 |
| 40°   | 2754.9 | 2062.8 | 556.7  | 274.5 | 236.4 | 207.8 | 186.8 | 179.2 | 184.9 | 192.6 | 194.5 |
| 42.5° | 3233.4 | 2451.8 | 682.5  | 259.3 | 217.3 | 186.8 | 167.8 | 162.1 | 165.9 | 167.8 | 169.7 |
| 45°   | 3710.1 | 2836.9 | 840.8  | 249.8 | 200.2 | 169.7 | 150.6 | 150.6 | 152.5 | 152.5 | 152.5 |
| 47.5° | 4161.9 | 3212.5 | 1006.6 | 247.8 | 184.9 | 152.5 | 137.3 | 139.2 | 139.2 | 141.1 | 141.1 |
| 50°   | 4589.0 | 3548.0 | 1174.4 | 253.6 | 171.6 | 137.3 | 125.8 | 125.8 | 125.8 | 127.7 | 125.8 |
| 52.5° | 4945.5 | 3841.6 | 1349.8 | 263.1 | 158.2 | 125.8 | 114.4 | 114.4 | 114.4 | 116.3 | 114.4 |
| 55°   | 5283.0 | 4108.5 | 1529.0 | 276.4 | 146.8 | 116.3 | 104.9 | 101.0 | 101.0 | 103.0 | 101.0 |
| 57.5° | 5557.5 | 4285.8 | 1698.7 | 278.4 | 137.3 | 106.8 | 97.2  | 91.5  | 91.5  | 91.5  | 91.5  |
| 60°   | 5568.9 | 4182.9 | 1748.3 | 244.0 | 125.8 | 97.2  | 87.7  | 80.1  | 82.0  | 82.0  | 82.0  |
| 62.5° | 5204.8 | 3641.4 | 1405.1 | 183.0 | 112.5 | 87.7  | 80.1  | 72.4  | 72.4  | 72.4  | 72.4  |
| 65°   | 4489.8 | 2833.1 | 823.6  | 144.9 | 97.2  | 78.2  | 70.5  | 64.8  | 64.8  | 64.8  | 62.9  |
| 66°   | 4154.3 | 2484.2 | 631.1  | 131.5 | 91.5  | 76.3  | 68.6  | 62.9  | 61.0  | 59.1  | 59.1  |
| 67.5° | 3607.1 | 1963.7 | 394.6  | 116.3 | 83.9  | 70.5  | 62.9  | 57.2  | 55.3  | 53.4  | 53.4  |
| 70°   | 2716.8 | 1246.9 | 192.6  | 89.6  | 72.4  | 61.0  | 55.3  | 49.6  | 47.7  | 45.8  | 43.8  |
| 72.5° | 1906.5 | 730.2  | 101.0  | 68.6  | 59.1  | 53.4  | 47.7  | 41.9  | 40.0  | 38.1  | 38.1  |
| 75°   | 1077.2 | 352.7  | 66.7   | 49.6  | 47.7  | 43.8  | 40.0  | 34.3  | 32.4  | 32.4  | 32.4  |
| 77.5° | 408.0  | 122.0  | 45.8   | 36.2  | 38.1  | 34.3  | 28.6  | 28.6  | 26.7  | 28.6  | 26.7  |
| 80°   | 106.8  | 53.4   | 28.6   | 26.7  | 28.6  | 24.8  | 21.0  | 22.9  | 22.9  | 22.9  | 22.9  |
| 82.5° | 57.2   | 30.5   | 17.2   | 19.1  | 17.2  | 17.2  | 13.3  | 15.3  | 17.2  | 15.3  | 17.2  |
| 85°   | 40.0   | 15.3   | 9.5    | 9.5   | 7.6   | 7.6   | 5.7   | 7.6   | 9.5   | 7.6   | 7.6   |
| 87.5° | 21.0   | 5.7    | 5.7    | 5.7   | 5.7   | 3.8   | 1.9   | 0.0   | 1.9   | 1.9   | 1.9   |
| 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)