

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: P1210632

Luminaire Tested: **ARCH3-180-750-U-T2RE-HSS**

Issue Date: 11/5/2025

### Test Information

Test Method: LM-79-08  
Report Number: P1210632  
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: ARCH3-180-750-U-T2RE-HSS  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 5000K, 1375mA 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: 17503 lumens  
Efficiency: N/A  
Efficacy: 97.0 lumens/watt  
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 180.5  
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

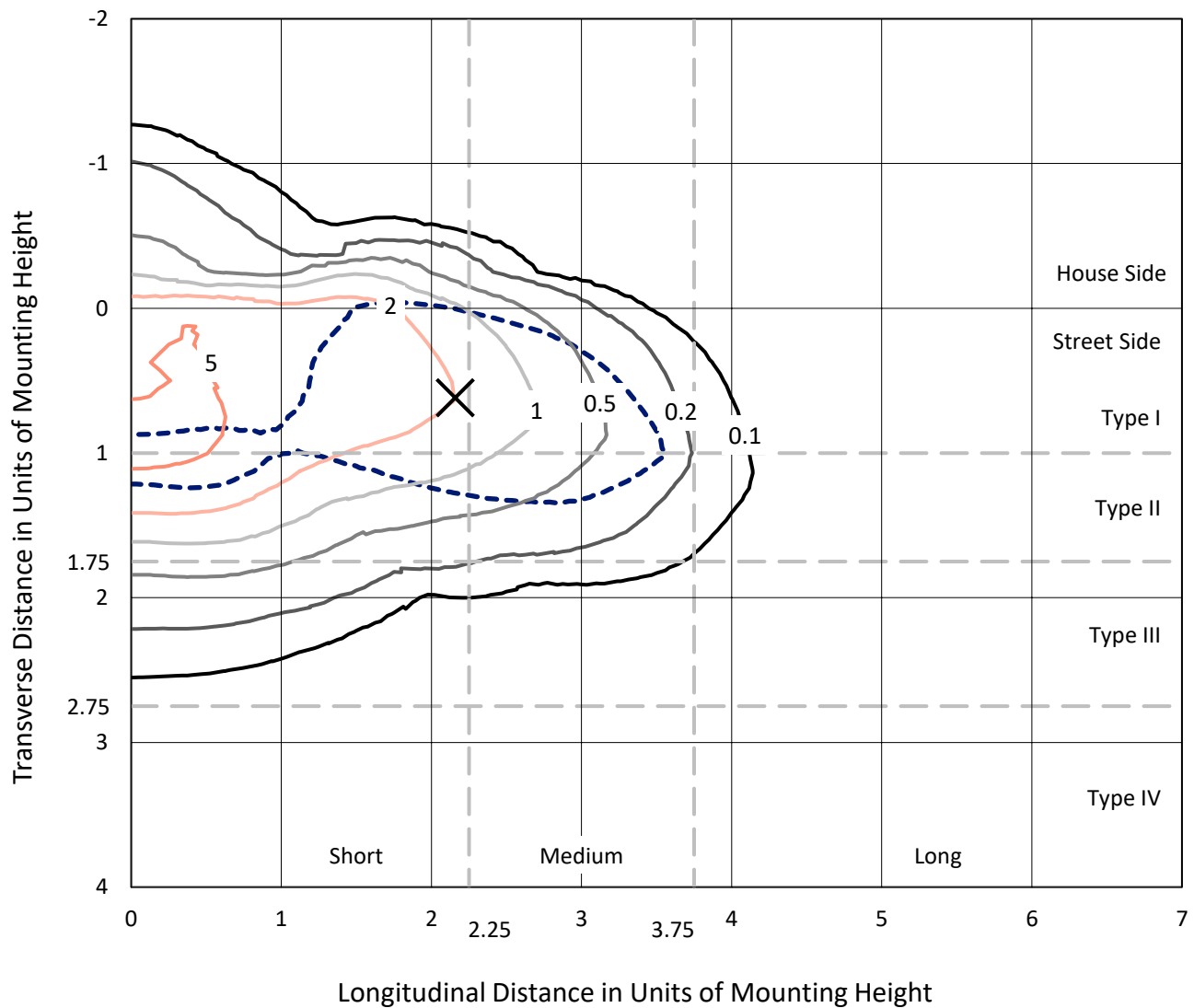


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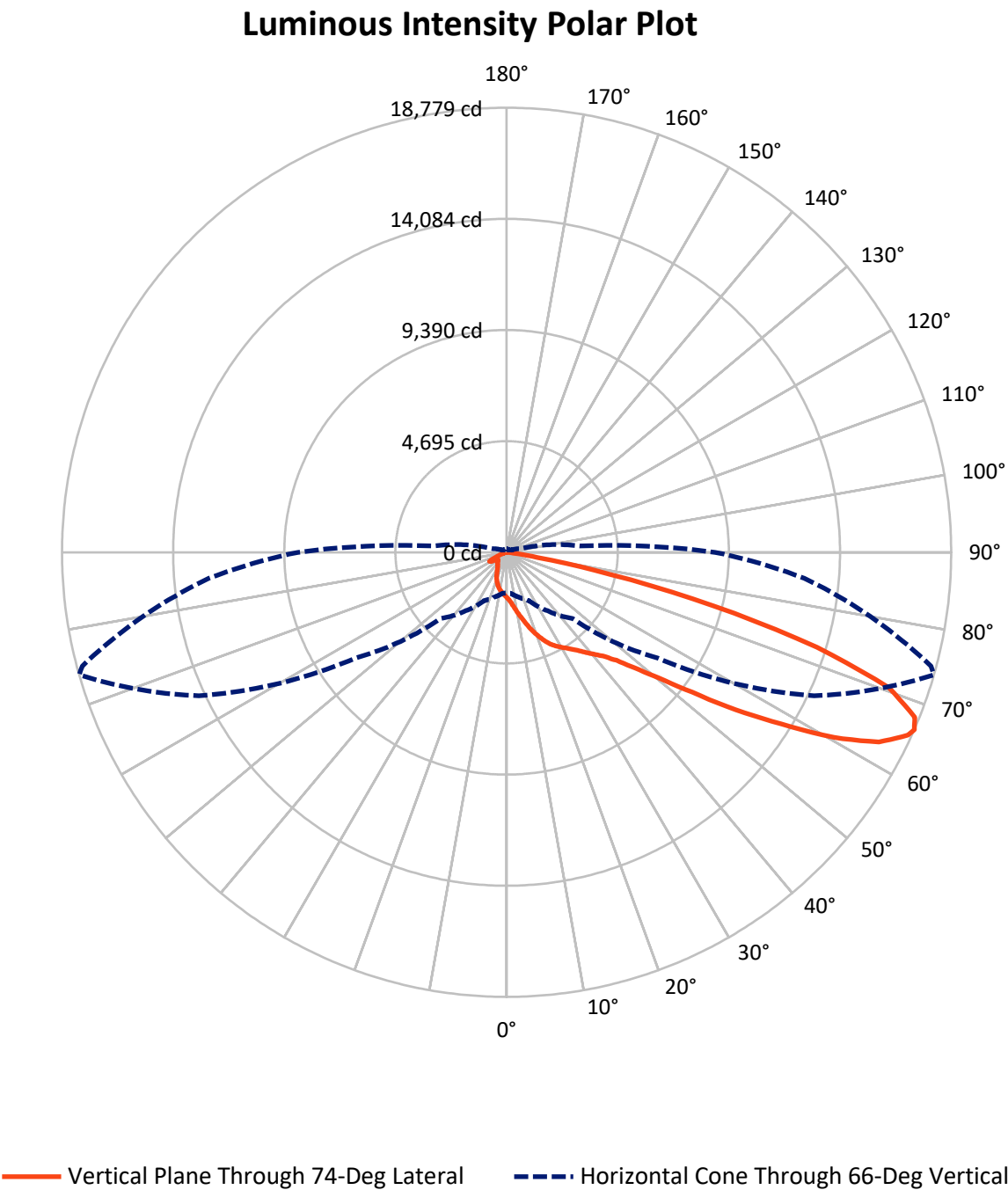
## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc  
Type II - Short - N/A

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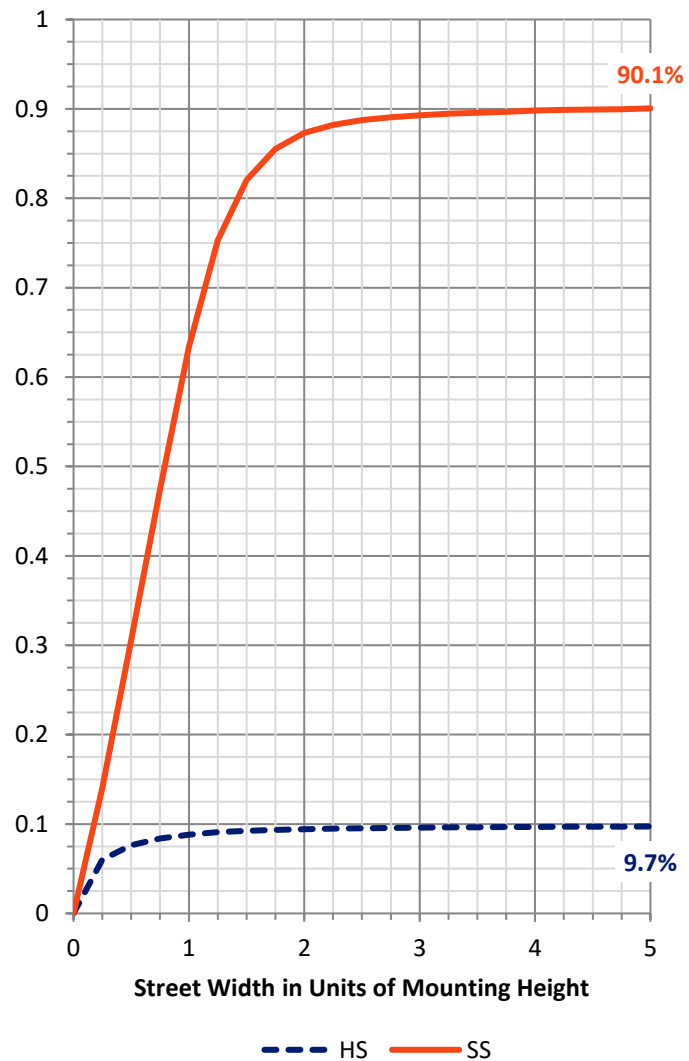
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1715.8   | 0.0    | 1715.8  |
|                    | % Fixture | 9.8      | 0.0    | 9.8     |
| <b>Street Side</b> | Lumens    | 15787.2  | 0.0    | 15787.2 |
|                    | % Fixture | 90.2     | 0.0    | 90.2    |
| <b>Total</b>       | Lumens    | 17503.0  | 0.0    | 17503.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 186.5   | 1.1       |
| 10°-20°   | 597.8   | 3.4       |
| 20°-30°   | 1141.0  | 6.5       |
| 30°-40°   | 1999.8  | 11.4      |
| 40°-50°   | 3429.2  | 19.6      |
| 50°-60°   | 4459.9  | 25.5      |
| 60°-70°   | 4037.3  | 23.1      |
| 70°-80°   | 1557.8  | 8.9       |
| 80°-90°   | 93.7    | 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°    | 17503.0 | 100.0     |
| 0°-180°   | 17503.0 | 100.0     |

**Coefficient of Utilization**



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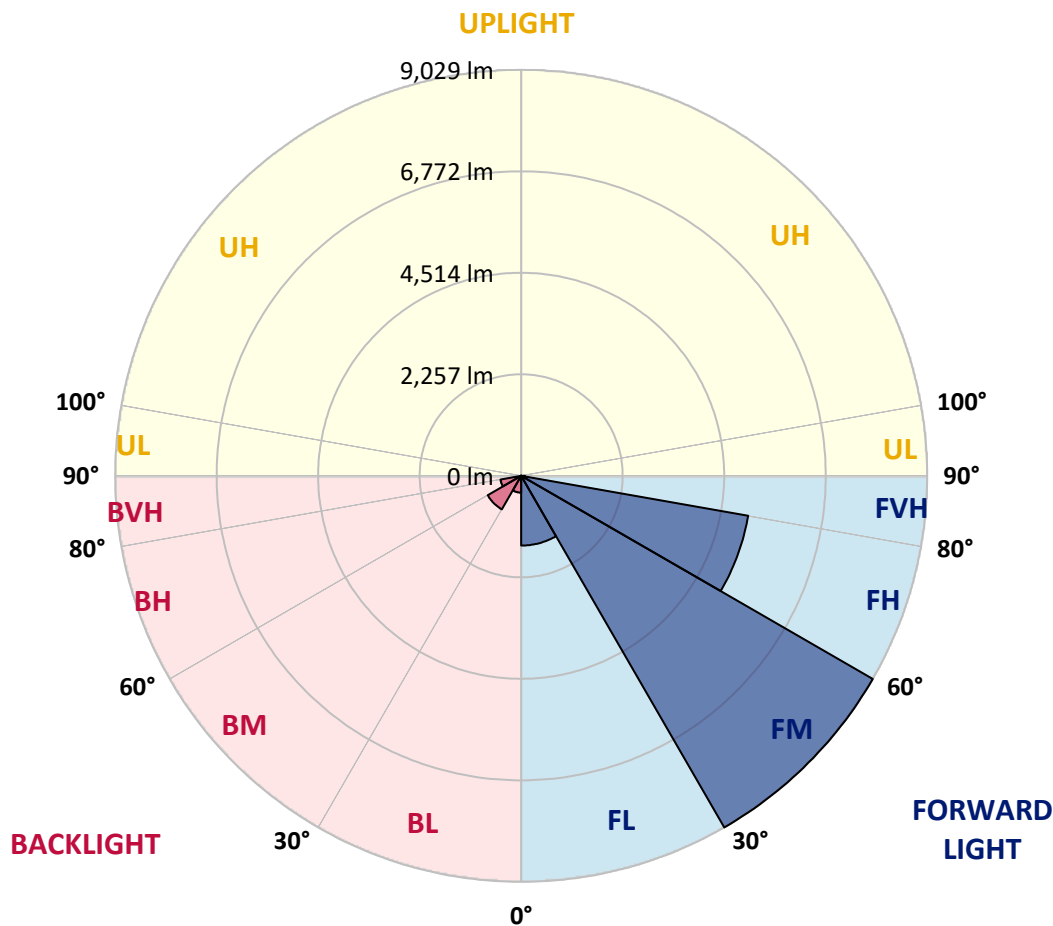
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1551.0 | 8.9       |                         |      |         |
| FM   | (30°-60°)   | 9028.9 | 51.6      |                         |      |         |
| FH   | (60°-80°)   | 5126.0 | 29.3      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 81.2   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 374.3  | 2.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 859.9  | 4.9       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 469.1  | 2.7       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 12.6   | 0.1       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°    | 55°     | 65°     | 74°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|--------|---------|---------|---------|---------|---------|
| 0°    | 1910.6  | 1910.6  | 1910.6  | 1910.6  | 1910.6  | 1910.6 | 1910.6  | 1910.6  | 1910.6  | 1910.6  | 1910.6  |
| 2.5°  | 2294.0  | 2275.1  | 2240.6  | 2237.4  | 2209.1  | 2174.6 | 2114.9  | 2052.0  | 2008.0  | 2001.7  | 1948.3  |
| 5°    | 2746.5  | 2737.1  | 2702.5  | 2680.5  | 2627.1  | 2545.4 | 2407.1  | 2268.8  | 2152.6  | 2140.0  | 2020.6  |
| 7.5°  | 2865.9  | 2872.2  | 2878.5  | 2900.5  | 2881.6  | 2843.9 | 2740.2  | 2545.4  | 2363.1  | 2334.8  | 2127.4  |
| 10°   | 2884.8  | 2878.5  | 2878.5  | 2906.8  | 2960.2  | 3013.6 | 3001.0  | 2834.5  | 2598.8  | 2564.2  | 2275.1  |
| 12.5° | 3089.0  | 3098.4  | 3076.4  | 3063.9  | 3054.5  | 3082.7 | 3177.0  | 3104.7  | 2847.1  | 2818.8  | 2454.2  |
| 15°   | 3353.0  | 3349.8  | 3318.4  | 3318.4  | 3290.1  | 3243.0 | 3302.7  | 3356.1  | 3145.6  | 3111.0  | 2658.5  |
| 17.5° | 3544.7  | 3557.2  | 3554.1  | 3573.0  | 3563.5  | 3500.7 | 3469.3  | 3579.2  | 3453.5  | 3409.5  | 2891.0  |
| 20°   | 3698.7  | 3733.2  | 3745.8  | 3805.5  | 3833.8  | 3789.8 | 3708.1  | 3777.2  | 3748.9  | 3708.1  | 3126.7  |
| 22.5° | 3862.1  | 3890.3  | 3912.3  | 4016.0  | 4094.6  | 4085.2 | 3981.5  | 3965.8  | 4034.9  | 3997.2  | 3359.3  |
| 25°   | 4025.5  | 4038.0  | 4104.0  | 4229.7  | 4355.4  | 4386.8 | 4280.0  | 4157.4  | 4292.6  | 4258.0  | 3566.7  |
| 27.5° | 4204.6  | 4210.9  | 4289.4  | 4443.4  | 4619.4  | 4685.4 | 4600.5  | 4374.3  | 4490.5  | 4490.5  | 3755.2  |
| 30°   | 4531.4  | 4594.2  | 4625.7  | 4763.9  | 4917.9  | 5009.0 | 4908.5  | 4603.7  | 4666.5  | 4694.8  | 3953.2  |
| 32.5° | 5235.3  | 5244.7  | 5235.3  | 5295.0  | 5326.4  | 5379.9 | 5263.6  | 4861.4  | 4845.6  | 4877.1  | 4148.0  |
| 35°   | 6310.0  | 6272.3  | 6171.8  | 6083.8  | 5901.5  | 5800.9 | 5650.1  | 5191.3  | 5065.6  | 5109.6  | 4339.7  |
| 37.5° | 7614.1  | 7560.7  | 7331.3  | 7061.1  | 6671.4  | 6269.2 | 6080.6  | 5593.5  | 5345.3  | 5401.9  | 4547.1  |
| 40°   | 8858.5  | 8824.0  | 8550.6  | 8217.5  | 7551.3  | 6863.1 | 6464.0  | 5932.9  | 5656.4  | 5678.4  | 4757.7  |
| 42.5° | 9883.0  | 9876.7  | 9647.3  | 9298.5  | 8443.7  | 7504.1 | 6916.5  | 6266.0  | 5983.2  | 6017.8  | 4977.6  |
| 45°   | 10659.2 | 10599.5 | 10429.8 | 10178.4 | 9307.9  | 8170.3 | 7463.3  | 6772.0  | 6508.0  | 6548.8  | 5307.6  |
| 47.5° | 10659.2 | 10668.6 | 10778.6 | 10753.4 | 9911.3  | 8795.7 | 8060.4  | 7409.9  | 7284.2  | 7321.9  | 5851.2  |
| 50°   | 9791.8  | 9879.8  | 10370.1 | 10781.7 | 10225.5 | 9282.8 | 8704.6  | 8208.1  | 8336.9  | 8393.5  | 6800.2  |
| 52.5° | 8076.1  | 8223.8  | 9075.4  | 10015.0 | 9993.0  | 9527.9 | 9370.8  | 9223.1  | 9801.3  | 9901.8  | 8201.8  |
| 55°   | 6137.2  | 6234.6  | 7343.9  | 8578.9  | 8981.1  | 9326.8 | 9952.1  | 10511.5 | 11740.2 | 11718.2 | 9625.3  |
| 57.5° | 4584.8  | 4676.0  | 5631.3  | 7001.4  | 7532.4  | 8456.3 | 10250.6 | 11985.3 | 13663.3 | 13748.2 | 10960.8 |
| 60°   | 3371.8  | 3441.0  | 4254.9  | 5379.9  | 6146.6  | 7123.9 | 10131.2 | 13437.1 | 15878.8 | 15781.3 | 12139.2 |
| 62.5° | 2495.1  | 2532.8  | 3120.4  | 3852.6  | 4870.8  | 5804.1 | 9380.2  | 14430.1 | 17647.9 | 17450.0 | 12796.0 |
| 65°   | 1929.5  | 1942.0  | 2246.8  | 2636.5  | 3541.5  | 4512.5 | 8261.5  | 14580.9 | 18625.2 | 18414.7 | 12783.4 |
| 66°   | 1718.9  | 1728.3  | 1951.5  | 2253.1  | 3013.6  | 3950.0 | 7771.3  | 14339.0 | 18779.2 | 18556.1 | 12626.3 |
| 67.5° | 1442.4  | 1436.1  | 1568.1  | 1766.1  | 2262.6  | 3048.2 | 6900.8  | 13631.9 | 18597.0 | 18483.8 | 12123.5 |
| 70°   | 1068.4  | 1071.6  | 1137.6  | 1184.7  | 1323.0  | 1687.5 | 4983.9  | 11825.0 | 17138.9 | 17132.6 | 10744.0 |
| 72.5° | 791.9   | 801.3   | 851.6   | 861.0   | 826.5   | 914.5  | 2872.2  | 9405.3  | 13710.5 | 13713.6 | 8032.1  |
| 75°   | 593.9   | 609.6   | 625.3   | 631.6   | 600.2   | 578.2  | 1297.8  | 6328.9  | 9018.8  | 8952.8  | 4547.1  |
| 77.5° | 452.5   | 458.8   | 471.4   | 461.9   | 455.7   | 399.1  | 540.5   | 3085.9  | 4452.8  | 4056.9  | 1473.8  |
| 80°   | 330.0   | 330.0   | 342.5   | 330.0   | 326.8   | 286.0  | 295.4   | 989.9   | 1307.3  | 1087.3  | 317.4   |
| 82.5° | 207.4   | 204.3   | 213.7   | 210.5   | 204.3   | 182.3  | 172.8   | 276.5   | 301.7   | 270.2   | 154.0   |
| 85°   | 116.3   | 113.1   | 110.0   | 106.8   | 97.4    | 81.7   | 94.3    | 103.7   | 138.3   | 141.4   | 110.0   |
| 87.5° | 40.9    | 40.9    | 37.7    | 34.6    | 28.3    | 28.3   | 34.6    | 34.6    | 50.3    | 50.3    | 56.6    |
| 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°    | 1910.6  | 1910.6 | 1910.6 | 1910.6 | 1910.6 | 1910.6 | 1910.6 | 1910.6 | 1910.6 | 1910.6 | 1910.6 |
| 2.5°  | 1923.2  | 1888.6 | 1838.3 | 1772.3 | 1725.2 | 1678.1 | 1627.8 | 1599.5 | 1558.7 | 1549.2 | 1561.8 |
| 5°    | 1957.7  | 1894.9 | 1769.2 | 1630.9 | 1511.5 | 1404.7 | 1304.1 | 1244.4 | 1184.7 | 1162.7 | 1172.1 |
| 7.5°  | 2030.0  | 1923.2 | 1709.5 | 1486.4 | 1288.4 | 1128.1 | 1008.7 | 939.6  | 886.2  | 864.2  | 870.5  |
| 10°   | 2136.9  | 1973.5 | 1652.9 | 1323.0 | 1068.4 | 898.7  | 798.2  | 754.2  | 722.8  | 710.2  | 713.3  |
| 12.5° | 2265.7  | 2045.7 | 1580.6 | 1159.6 | 879.9  | 732.2  | 685.1  | 675.6  | 669.3  | 663.1  | 666.2  |
| 15°   | 2410.3  | 2108.6 | 1495.8 | 999.3  | 732.2  | 650.5  | 634.8  | 631.6  | 628.5  | 628.5  | 628.5  |
| 17.5° | 2561.1  | 2165.1 | 1401.5 | 848.5  | 637.9  | 600.2  | 590.8  | 590.8  | 590.8  | 593.9  | 593.9  |
| 20°   | 2702.5  | 2209.1 | 1291.5 | 713.3  | 584.5  | 553.1  | 546.8  | 546.8  | 549.9  | 553.1  | 553.1  |
| 22.5° | 2840.8  | 2228.0 | 1162.7 | 619.1  | 540.5  | 512.2  | 502.8  | 502.8  | 502.8  | 505.9  | 505.9  |
| 25°   | 2960.2  | 2228.0 | 1033.9 | 559.4  | 502.8  | 474.5  | 461.9  | 458.8  | 461.9  | 461.9  | 461.9  |
| 27.5° | 3060.7  | 2218.6 | 908.2  | 518.5  | 465.1  | 436.8  | 424.2  | 421.1  | 427.4  | 430.5  | 430.5  |
| 30°   | 3167.6  | 2206.0 | 807.6  | 480.8  | 433.7  | 405.4  | 392.8  | 392.8  | 402.2  | 414.8  | 414.8  |
| 32.5° | 3271.3  | 2215.4 | 729.0  | 449.4  | 402.2  | 380.2  | 367.7  | 370.8  | 389.7  | 408.5  | 408.5  |
| 35°   | 3381.3  | 2234.3 | 681.9  | 427.4  | 380.2  | 358.2  | 348.8  | 358.2  | 377.1  | 395.9  | 395.9  |
| 37.5° | 3491.3  | 2256.3 | 653.6  | 408.5  | 361.4  | 339.4  | 333.1  | 345.7  | 367.7  | 386.5  | 389.7  |
| 40°   | 3607.5  | 2275.1 | 622.2  | 389.7  | 348.8  | 323.7  | 320.5  | 333.1  | 361.4  | 380.2  | 383.4  |
| 42.5° | 3752.1  | 2312.8 | 584.5  | 374.0  | 336.2  | 304.8  | 308.0  | 317.4  | 345.7  | 374.0  | 377.1  |
| 45°   | 4034.9  | 2432.2 | 546.8  | 358.2  | 320.5  | 295.4  | 289.1  | 295.4  | 326.8  | 358.2  | 364.5  |
| 47.5° | 4566.0  | 2702.5 | 505.9  | 342.5  | 304.8  | 289.1  | 264.0  | 270.2  | 298.5  | 333.1  | 336.2  |
| 50°   | 5584.1  | 3277.6 | 483.9  | 326.8  | 292.2  | 267.1  | 238.8  | 238.8  | 260.8  | 292.2  | 292.2  |
| 52.5° | 7171.0  | 4308.3 | 496.5  | 314.2  | 276.5  | 245.1  | 216.8  | 213.7  | 226.3  | 248.3  | 248.3  |
| 55°   | 8883.7  | 5439.6 | 543.6  | 301.7  | 257.7  | 232.5  | 201.1  | 185.4  | 194.8  | 207.4  | 207.4  |
| 57.5° | 10241.2 | 6008.3 | 672.5  | 295.4  | 235.7  | 223.1  | 182.3  | 160.3  | 169.7  | 182.3  | 182.3  |
| 60°   | 10838.3 | 5675.2 | 817.0  | 301.7  | 220.0  | 207.4  | 163.4  | 141.4  | 157.1  | 169.7  | 172.8  |
| 62.5° | 10354.3 | 4672.8 | 876.7  | 286.0  | 198.0  | 185.4  | 160.3  | 132.0  | 150.8  | 160.3  | 163.4  |
| 65°   | 9307.9  | 3551.0 | 685.1  | 248.3  | 182.3  | 160.3  | 144.6  | 125.7  | 141.4  | 150.8  | 150.8  |
| 66°   | 8811.4  | 3095.3 | 584.5  | 229.4  | 176.0  | 150.8  | 138.3  | 125.7  | 138.3  | 144.6  | 147.7  |
| 67.5° | 8041.5  | 2441.7 | 433.7  | 201.1  | 163.4  | 138.3  | 128.8  | 119.4  | 132.0  | 138.3  | 138.3  |
| 70°   | 6288.0  | 1454.9 | 260.8  | 157.1  | 141.4  | 122.6  | 116.3  | 110.0  | 119.4  | 122.6  | 122.6  |
| 72.5° | 3937.5  | 691.3  | 166.5  | 116.3  | 119.4  | 116.3  | 97.4   | 103.7  | 106.8  | 110.0  | 110.0  |
| 75°   | 1907.5  | 273.4  | 113.1  | 84.8   | 97.4   | 110.0  | 78.6   | 91.1   | 94.3   | 100.6  | 97.4   |
| 77.5° | 531.1   | 132.0  | 72.3   | 62.8   | 84.8   | 84.8   | 59.7   | 72.3   | 84.8   | 106.8  | 97.4   |
| 80°   | 154.0   | 84.8   | 47.1   | 47.1   | 59.7   | 59.7   | 40.9   | 50.3   | 56.6   | 62.8   | 66.0   |
| 82.5° | 106.8   | 56.6   | 31.4   | 34.6   | 34.6   | 37.7   | 25.1   | 25.1   | 31.4   | 31.4   | 34.6   |
| 85°   | 84.8    | 25.1   | 18.9   | 22.0   | 15.7   | 18.9   | 12.6   | 12.6   | 15.7   | 12.6   | 12.6   |
| 87.5° | 34.6    | 12.6   | 12.6   | 12.6   | 9.4    | 9.4    | 6.3    | 3.1    | 3.1    | 3.1    | 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)