

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: P1211301

Luminaire Tested: **ARCH4-230-740-U-T2RE**

Issue Date: 11/5/2025

### Test Information

Test Method: LM-79-08  
Report Number: P1211301  
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: ARCH4-230-740-U-T2RE  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 905mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II  
ROADWAY ILLUMINANCE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 35271 lumens  
Efficiency: N/A  
Efficacy: 152.6 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 231.2  
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

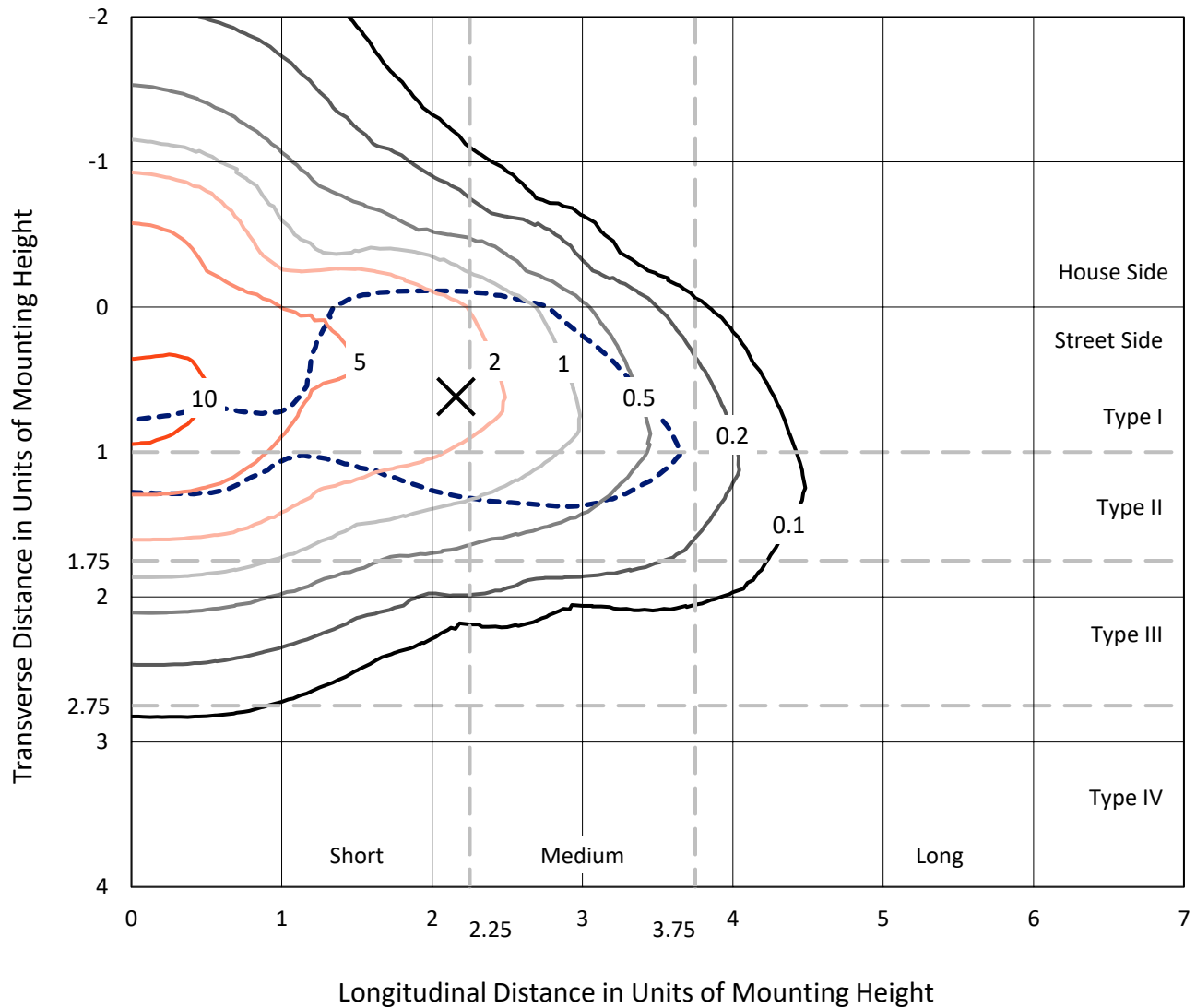


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## Iso-Footcandle Lines of Horizontal Illumination

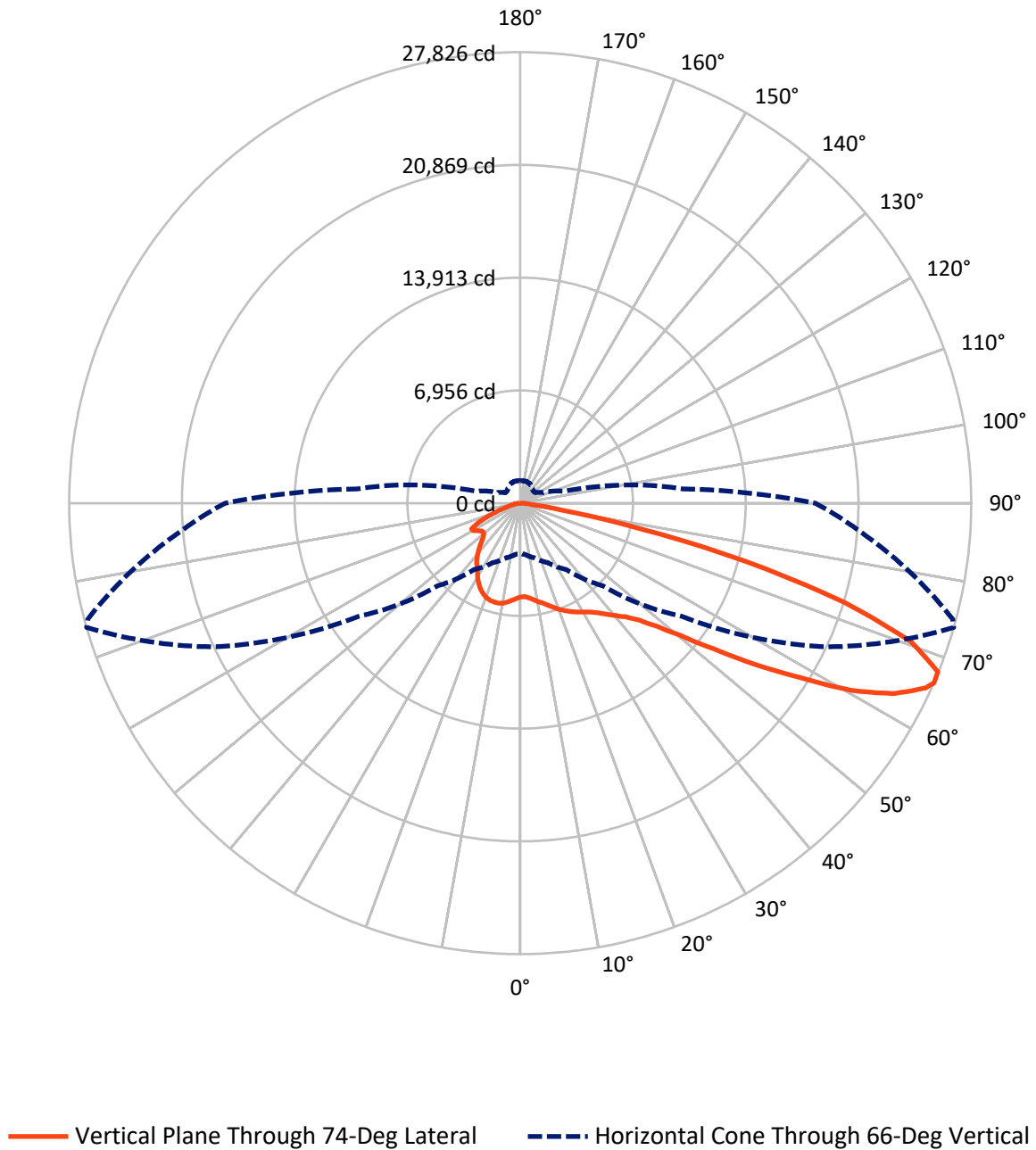
✕ Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 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    | 8589.5   | 0.0    | 8589.5  |
|                    | % Fixture | 24.4     | 0.0    | 24.4    |
| <b>Street Side</b> | Lumens    | 26681.5  | 0.0    | 26681.5 |
|                    | % Fixture | 75.6     | 0.0    | 75.6    |
| <b>Total</b>       | Lumens    | 35271.0  | 0.0    | 35271.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 551.6   | 1.6       |
| 10°-20°   | 1696.2  | 4.8       |
| 20°-30°   | 3182.9  | 9.0       |
| 30°-40°   | 4896.0  | 13.9      |
| 40°-50°   | 6585.5  | 18.7      |
| 50°-60°   | 7788.2  | 22.1      |
| 60°-70°   | 7204.5  | 20.4      |
| 70°-80°   | 3030.9  | 8.6       |
| 80°-90°   | 335.4   | 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°    | 35271.0 | 100.0     |
| 0°-180°   | 35271.0 | 100.0     |

**Coefficient of Utilization**



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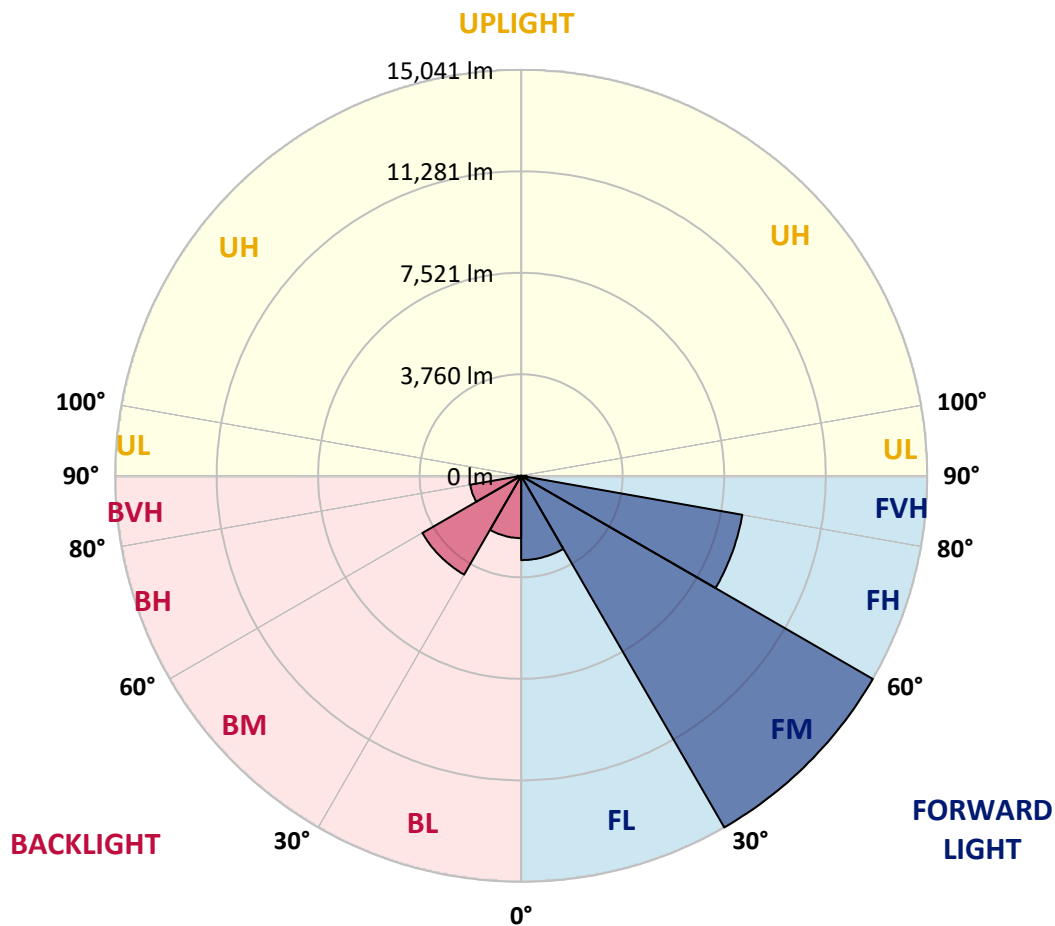
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 3121.9  | 8.9       |                         |      |          |
| FM   | (30°-60°)   | 15041.1 | 42.6      |                         |      |          |
| FH   | (60°-80°)   | 8317.9  | 23.6      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 200.7   | 0.6       |                         |      | G2/225   |
| BL   | (0°-30°)    | 2308.7  | 6.5       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 4228.6  | 12.0      | B3/5000                 |      |          |
| BH   | (60°-80°)   | 1917.5  | 5.4       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 134.7   | 0.4       |                         |      | G2/225   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 74°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5782.1  | 5782.1  | 5782.1  | 5782.1  | 5782.1  | 5782.1  | 5782.1  | 5782.1  | 5782.1  | 5782.1  | 5782.1  |
| 2.5°  | 5763.9  | 5754.9  | 5773.0  | 5800.2  | 5813.9  | 5791.2  | 5782.1  | 5777.6  | 5777.6  | 5763.9  | 5786.6  |
| 5°    | 5491.6  | 5487.1  | 5527.9  | 5577.9  | 5673.2  | 5741.2  | 5832.0  | 5886.5  | 5868.3  | 5841.1  | 5859.2  |
| 7.5°  | 5137.6  | 5128.5  | 5178.5  | 5273.8  | 5405.4  | 5555.2  | 5777.6  | 5950.0  | 6018.1  | 6009.0  | 6004.5  |
| 10°   | 5273.8  | 5264.7  | 5260.2  | 5232.9  | 5278.3  | 5423.5  | 5655.0  | 5959.1  | 6190.6  | 6195.1  | 6199.6  |
| 12.5° | 5745.8  | 5768.5  | 5745.8  | 5659.5  | 5559.7  | 5505.2  | 5641.4  | 5981.8  | 6335.8  | 6363.0  | 6476.5  |
| 15°   | 6390.3  | 6367.6  | 6322.2  | 6222.3  | 6068.0  | 5904.6  | 5804.8  | 6086.2  | 6544.6  | 6567.3  | 6816.9  |
| 17.5° | 6957.6  | 6975.7  | 6948.5  | 6853.2  | 6671.6  | 6458.3  | 6154.2  | 6267.7  | 6767.0  | 6830.5  | 7180.0  |
| 20°   | 7574.8  | 7647.4  | 7611.1  | 7493.1  | 7343.3  | 7025.6  | 6644.4  | 6530.9  | 7012.0  | 7057.4  | 7556.7  |
| 22.5° | 8287.4  | 8364.5  | 8296.4  | 8183.0  | 8060.4  | 7670.1  | 7180.0  | 6853.2  | 7216.3  | 7311.6  | 7919.7  |
| 25°   | 9140.6  | 9213.2  | 9149.7  | 8972.7  | 8818.4  | 8341.8  | 7756.4  | 7216.3  | 7416.0  | 7520.3  | 8214.7  |
| 27.5° | 9816.8  | 9871.3  | 9930.3  | 9825.9  | 9589.9  | 9095.2  | 8355.4  | 7593.0  | 7615.7  | 7724.6  | 8487.1  |
| 30°   | 10420.5 | 10556.6 | 10606.5 | 10620.2 | 10420.5 | 9866.8  | 8968.1  | 7983.3  | 7788.1  | 7901.6  | 8759.4  |
| 32.5° | 11246.5 | 11450.7 | 11369.0 | 11450.7 | 11332.7 | 10592.9 | 9603.5  | 8387.2  | 8010.5  | 8114.9  | 9018.1  |
| 35°   | 12453.7 | 12617.1 | 12403.8 | 12340.3 | 12149.6 | 11328.2 | 10216.2 | 8804.8  | 8305.5  | 8419.0  | 9263.1  |
| 37.5° | 13751.8 | 13937.8 | 13629.2 | 13375.1 | 13012.0 | 12054.3 | 10742.7 | 9353.9  | 8714.0  | 8804.8  | 9490.1  |
| 40°   | 14886.4 | 15040.7 | 14772.9 | 14437.1 | 13828.9 | 12694.3 | 11196.6 | 9739.7  | 9122.4  | 9235.9  | 9753.3  |
| 42.5° | 15934.8 | 16034.6 | 15735.1 | 15412.9 | 14600.5 | 13270.7 | 11686.7 | 10148.2 | 9599.0  | 9707.9  | 9966.6  |
| 45°   | 16996.8 | 17074.0 | 16656.4 | 16198.0 | 15244.9 | 13797.1 | 12226.8 | 10720.0 | 10297.9 | 10443.2 | 10311.5 |
| 47.5° | 17187.4 | 17210.1 | 17137.5 | 16828.9 | 15753.2 | 14300.9 | 12894.0 | 11487.0 | 11364.5 | 11523.3 | 10906.1 |
| 50°   | 15866.7 | 16070.9 | 16520.3 | 16824.3 | 15957.5 | 14723.0 | 13561.1 | 12585.3 | 12835.0 | 13039.2 | 12140.6 |
| 52.5° | 13302.4 | 13497.6 | 14536.9 | 15689.7 | 15467.3 | 14818.3 | 14278.2 | 13978.7 | 14909.1 | 15154.2 | 13819.8 |
| 55°   | 10597.5 | 10769.9 | 11868.3 | 13529.4 | 13883.4 | 14382.6 | 15045.2 | 15757.8 | 17555.0 | 17718.4 | 15662.5 |
| 57.5° | 8727.6  | 8822.9  | 9608.1  | 11205.6 | 11773.0 | 12989.3 | 15458.2 | 17872.7 | 20246.4 | 20496.0 | 17264.6 |
| 60°   | 7157.3  | 7261.7  | 7847.1  | 9163.3  | 9916.7  | 10996.9 | 15131.5 | 19960.5 | 23459.7 | 23459.7 | 19320.5 |
| 62.5° | 5387.2  | 5478.0  | 6022.6  | 7052.9  | 8319.1  | 9308.5  | 14087.6 | 21344.7 | 25883.2 | 25774.3 | 20809.2 |
| 65°   | 3698.9  | 3771.5  | 4166.4  | 4851.7  | 5990.9  | 7933.4  | 12662.5 | 21362.9 | 27489.9 | 27344.7 | 21444.6 |
| 66°   | 3104.4  | 3167.9  | 3503.7  | 4057.4  | 5015.1  | 7198.1  | 12158.7 | 20977.1 | 27825.7 | 27621.5 | 21176.8 |
| 67.5° | 2450.8  | 2496.2  | 2718.6  | 3045.4  | 3676.2  | 5827.5  | 11364.5 | 19883.3 | 27794.0 | 27671.4 | 20496.0 |
| 70°   | 1751.9  | 1783.6  | 1947.0  | 2015.1  | 2174.0  | 3372.1  | 9027.1  | 17414.3 | 25565.5 | 25601.9 | 17818.3 |
| 72.5° | 1357.0  | 1406.9  | 1506.8  | 1520.4  | 1484.1  | 1792.7  | 5478.0  | 14527.8 | 20913.6 | 20899.9 | 13225.3 |
| 75°   | 1093.8  | 1121.0  | 1170.9  | 1198.2  | 1189.1  | 1157.3  | 2319.2  | 10838.0 | 14396.2 | 14564.1 | 7406.9  |
| 77.5° | 862.3   | 857.8   | 903.2   | 939.5   | 966.7   | 907.7   | 1062.0  | 6353.9  | 7547.6  | 7334.3  | 2782.1  |
| 80°   | 635.4   | 635.4   | 698.9   | 712.5   | 753.4   | 762.5   | 708.0   | 2450.8  | 2591.5  | 2355.5  | 721.6   |
| 82.5° | 417.5   | 417.5   | 485.6   | 494.7   | 535.5   | 594.5   | 512.9   | 735.2   | 717.1   | 680.8   | 326.8   |
| 85°   | 226.9   | 217.8   | 240.5   | 272.3   | 295.0   | 349.5   | 308.6   | 367.6   | 376.7   | 372.2   | 217.8   |
| 87.5° | 45.4    | 40.8    | 63.5    | 72.6    | 81.7    | 108.9   | 99.8    | 149.8   | 208.8   | 204.2   | 95.3    |
| 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°    | 5782.1  | 5782.1  | 5782.1 | 5782.1 | 5782.1 | 5782.1 | 5782.1 | 5782.1 | 5782.1 | 5782.1 | 5782.1 |
| 2.5°  | 5818.4  | 5813.9  | 5863.8 | 5922.8 | 5990.9 | 6031.7 | 6049.9 | 6081.6 | 6058.9 | 6068.0 | 6095.2 |
| 5°    | 5904.6  | 5918.2  | 5990.9 | 6068.0 | 6099.8 | 6077.1 | 6027.2 | 6009.0 | 5968.2 | 5959.1 | 5950.0 |
| 7.5°  | 6031.7  | 6054.4  | 6127.0 | 6145.2 | 6049.9 | 5891.0 | 5777.6 | 5714.0 | 5645.9 | 5627.8 | 5618.7 |
| 10°   | 6240.5  | 6254.1  | 6272.3 | 6086.2 | 5850.2 | 5636.9 | 5496.2 | 5437.2 | 5391.8 | 5355.5 | 5364.5 |
| 12.5° | 6503.7  | 6494.6  | 6353.9 | 5968.2 | 5632.3 | 5414.5 | 5319.2 | 5282.9 | 5251.1 | 5228.4 | 5223.9 |
| 15°   | 6835.0  | 6771.5  | 6367.6 | 5804.8 | 5428.1 | 5246.5 | 5178.5 | 5164.8 | 5128.5 | 5128.5 | 5124.0 |
| 17.5° | 7170.9  | 7007.5  | 6358.5 | 5632.3 | 5232.9 | 5133.1 | 5092.2 | 5083.2 | 5074.1 | 5069.5 | 5083.2 |
| 20°   | 7506.7  | 7216.3  | 6285.9 | 5419.0 | 5096.8 | 5037.8 | 5028.7 | 5033.2 | 5024.2 | 5037.8 | 5028.7 |
| 22.5° | 7801.7  | 7352.4  | 6149.7 | 5192.1 | 5001.5 | 4996.9 | 4974.2 | 4983.3 | 5015.1 | 5019.6 | 5033.2 |
| 25°   | 8028.7  | 7402.3  | 5950.0 | 4983.3 | 4933.4 | 4924.3 | 4951.5 | 4987.8 | 5015.1 | 5019.6 | 5042.3 |
| 27.5° | 8214.7  | 7375.1  | 5700.4 | 4819.9 | 4815.4 | 4865.3 | 4947.0 | 4960.6 | 4965.2 | 4965.2 | 4947.0 |
| 30°   | 8355.4  | 7316.1  | 5382.7 | 4638.4 | 4661.1 | 4783.6 | 4860.8 | 4860.8 | 4824.5 | 4815.4 | 4842.6 |
| 32.5° | 8387.2  | 7239.0  | 5037.8 | 4452.3 | 4488.6 | 4633.8 | 4729.2 | 4697.4 | 4656.5 | 4656.5 | 4674.7 |
| 35°   | 8414.4  | 7134.6  | 4760.9 | 4198.1 | 4252.6 | 4425.1 | 4515.8 | 4452.3 | 4406.9 | 4393.3 | 4388.8 |
| 37.5° | 8405.4  | 7093.7  | 4511.3 | 3875.9 | 3948.5 | 4116.4 | 4175.4 | 4116.4 | 4048.4 | 4016.6 | 4057.4 |
| 40°   | 8414.4  | 7066.5  | 4198.1 | 3521.9 | 3594.5 | 3694.4 | 3771.5 | 3726.1 | 3662.6 | 3580.9 | 3621.7 |
| 42.5° | 8468.9  | 7102.8  | 3853.2 | 3177.0 | 3177.0 | 3231.4 | 3363.1 | 3331.3 | 3177.0 | 3145.2 | 3181.5 |
| 45°   | 8759.4  | 7298.0  | 3508.3 | 2832.0 | 2782.1 | 2818.4 | 2954.6 | 2818.4 | 2723.1 | 2723.1 | 2754.9 |
| 47.5° | 9462.8  | 7661.0  | 3204.2 | 2528.0 | 2410.0 | 2482.6 | 2518.9 | 2391.8 | 2319.2 | 2301.0 | 2332.8 |
| 50°   | 10897.0 | 8387.2  | 3022.7 | 2278.3 | 2133.1 | 2187.6 | 2164.9 | 2160.3 | 2087.7 | 2096.8 | 2115.0 |
| 52.5° | 13075.5 | 9803.2  | 2968.2 | 2155.8 | 1974.3 | 1987.9 | 1965.2 | 1974.3 | 1960.6 | 2006.0 | 2019.6 |
| 55°   | 15449.2 | 11296.4 | 3036.3 | 2174.0 | 1865.3 | 1770.0 | 1779.1 | 1824.5 | 1879.0 | 1951.6 | 1965.2 |
| 57.5° | 17223.7 | 12045.3 | 3213.3 | 2296.5 | 1729.2 | 1583.9 | 1606.6 | 1692.9 | 1797.3 | 1856.3 | 1888.0 |
| 60°   | 18544.4 | 11954.5 | 3472.0 | 2328.3 | 1565.8 | 1416.0 | 1456.9 | 1583.9 | 1674.7 | 1724.6 | 1756.4 |
| 62.5° | 18975.6 | 11387.2 | 3535.5 | 2096.8 | 1352.5 | 1257.2 | 1357.0 | 1488.6 | 1529.5 | 1583.9 | 1606.6 |
| 65°   | 18621.6 | 10583.9 | 3072.6 | 1701.9 | 1189.1 | 1139.2 | 1284.4 | 1384.3 | 1438.7 | 1465.9 | 1470.5 |
| 66°   | 18204.1 | 10102.8 | 2823.0 | 1547.6 | 1130.1 | 1102.9 | 1257.2 | 1338.9 | 1393.3 | 1388.8 | 1393.3 |
| 67.5° | 17287.3 | 9095.2  | 2419.0 | 1329.8 | 1043.9 | 1048.4 | 1211.8 | 1266.3 | 1284.4 | 1270.8 | 1270.8 |
| 70°   | 14169.3 | 6403.9  | 1733.7 | 1007.6 | 916.8  | 980.3  | 1089.2 | 1102.9 | 1143.7 | 1125.6 | 1125.6 |
| 72.5° | 8736.7  | 3145.2  | 1161.9 | 771.6  | 816.9  | 916.8  | 912.2  | 957.6  | 1052.9 | 1080.2 | 1098.3 |
| 75°   | 4293.5  | 1275.3  | 767.0  | 653.5  | 730.7  | 767.0  | 757.9  | 871.4  | 1007.6 | 1125.6 | 1166.4 |
| 77.5° | 1629.3  | 635.4   | 535.5  | 571.9  | 590.0  | 576.4  | 603.6  | 789.7  | 1007.6 | 1220.9 | 1261.7 |
| 80°   | 503.8   | 440.2   | 422.1  | 472.0  | 444.8  | 422.1  | 453.9  | 653.5  | 853.2  | 925.9  | 925.9  |
| 82.5° | 304.1   | 344.9   | 326.8  | 322.2  | 299.5  | 304.1  | 326.8  | 467.5  | 658.1  | 689.9  | 689.9  |
| 85°   | 213.3   | 226.9   | 186.1  | 177.0  | 172.5  | 167.9  | 167.9  | 272.3  | 390.3  | 385.8  | 399.4  |
| 87.5° | 81.7    | 90.8    | 68.1   | 68.1   | 63.5   | 45.4   | 36.3   | 45.4   | 45.4   | 31.8   | 22.7   |
| 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)