

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: P1211463

Luminaire Tested: **ARCH4-280-740-U-T3RE**

Issue Date: 11/5/2025

### Test Information

Test Method: LM-79-08  
Report Number: P1211463  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/5/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH4-280-740-U-T3RE  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 1085mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III  
ROADWAY ILLUMINANCE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 40560 lumens  
Efficiency: N/A  
Efficacy: 145.0 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 279.7  
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



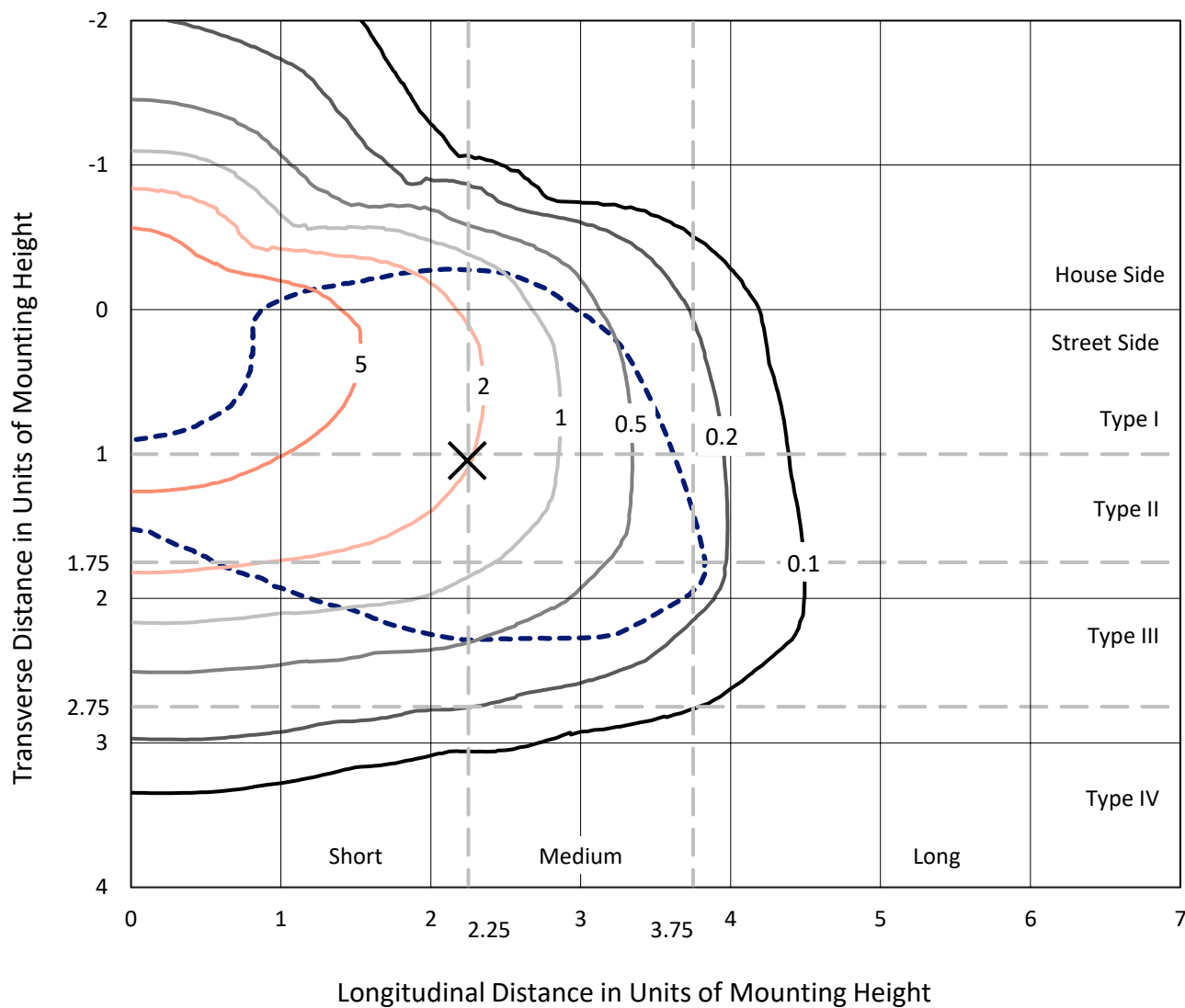
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## Iso-Footcandle Lines of Horizontal Illumination

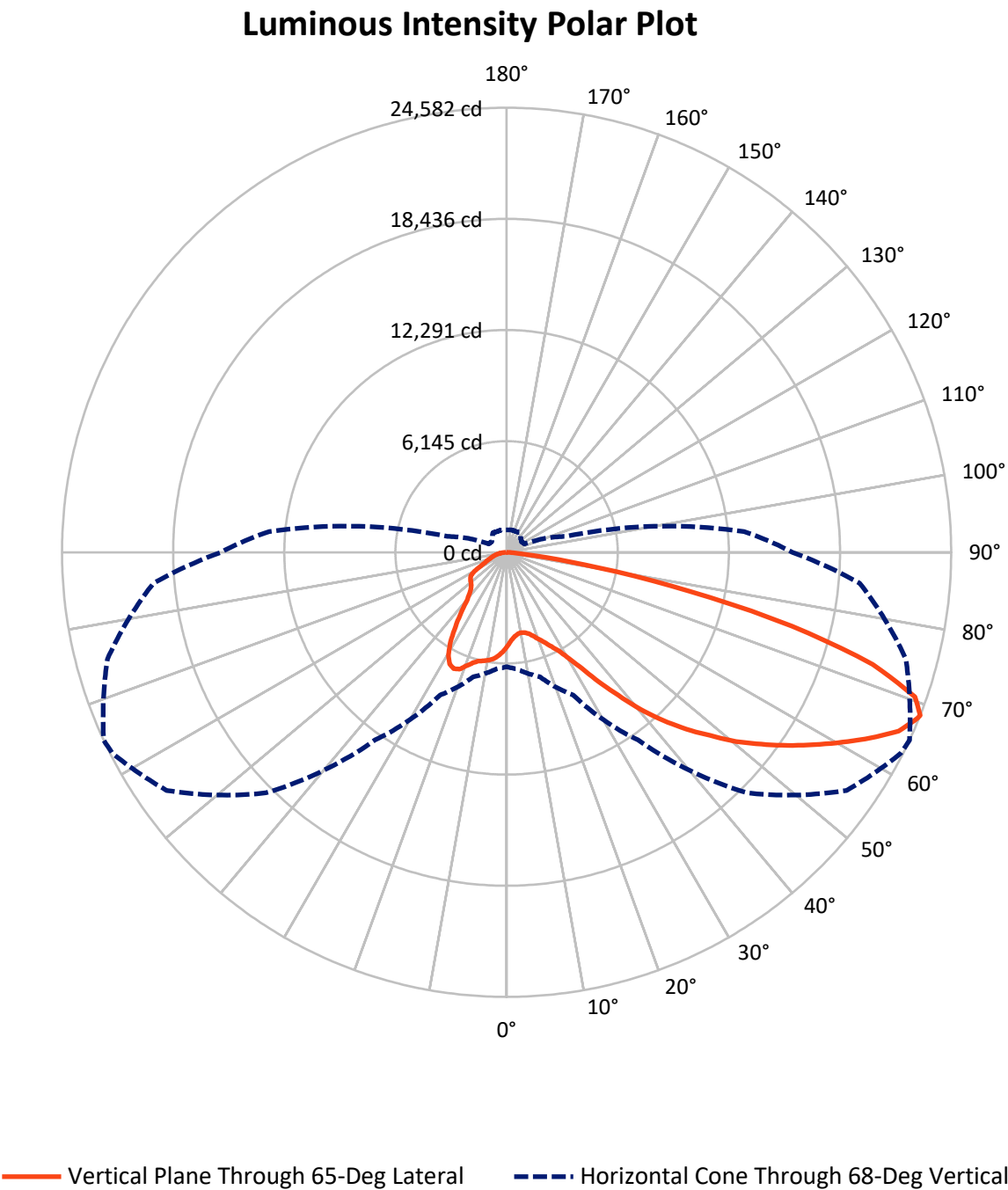
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc  
Type III - Short - N/A

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9944.1   | 0.0    | 9944.1  |
|                    | % Fixture | 24.5     | 0.0    | 24.5    |
| <b>Street Side</b> | Lumens    | 30615.9  | 0.0    | 30615.9 |
|                    | % Fixture | 75.5     | 0.0    | 75.5    |
| <b>Total</b>       | Lumens    | 40560.0  | 0.0    | 40560.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 495.4   | 1.2       |
| 10°-20°   | 1612.8  | 4.0       |
| 20°-30°   | 2919.1  | 7.2       |
| 30°-40°   | 4592.1  | 11.3      |
| 40°-50°   | 6839.4  | 16.9      |
| 50°-60°   | 8971.9  | 22.1      |
| 60°-70°   | 9811.3  | 24.2      |
| 70°-80°   | 4854.9  | 12.0      |
| 80°-90°   | 463.1   | 1.1       |
| 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°    | 40560.0 | 100.0     |
| 0°-180°   | 40560.0 | 100.0     |

**Coefficient of Utilization**



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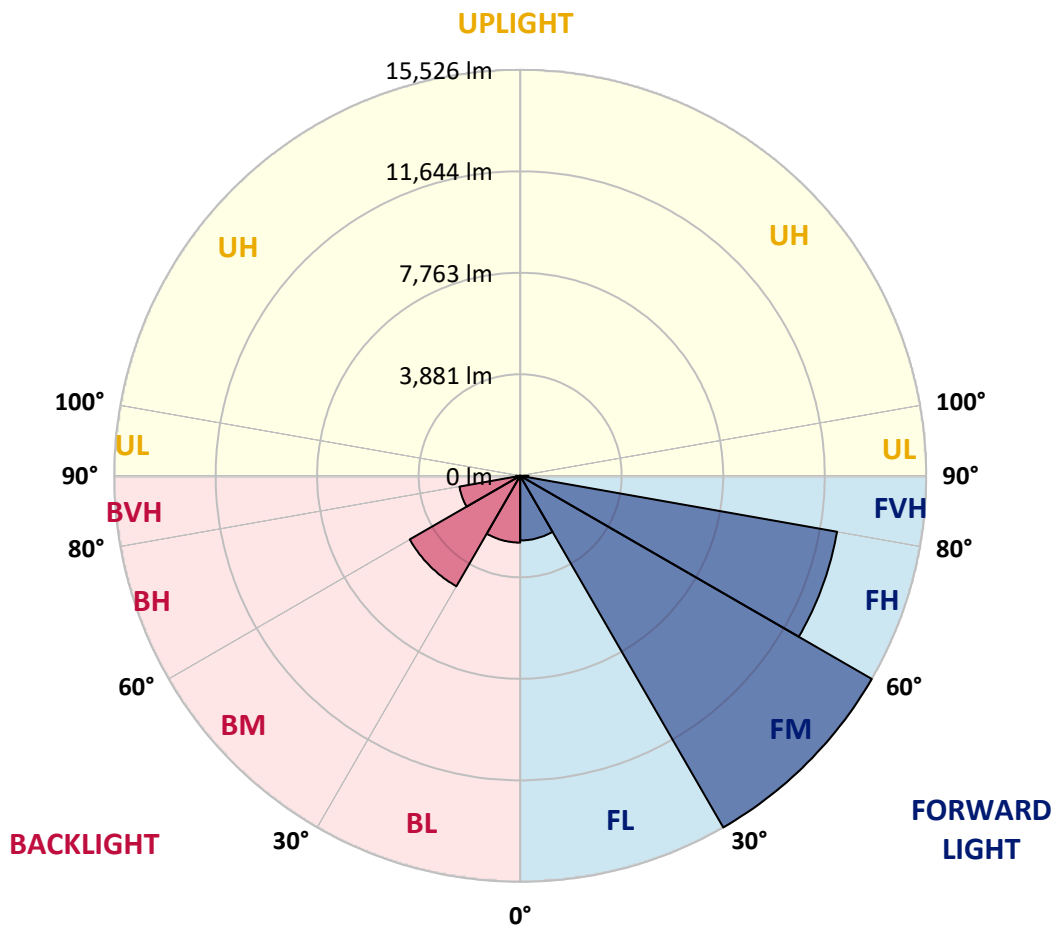
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2472.6  | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 15525.8 | 38.3      |                         |      |         |
| FH   | (60°-80°)   | 12306.0 | 30.3      |                         |      | G5      |
| FVH  | (80°-90°)   | 311.5   | 0.8       |                         |      | G3/500  |
| BL   | (0°-30°)    | 2554.7  | 6.3       | B4/5000                 |      |         |
| BM   | (30°-60°)   | 4877.5  | 12.0      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 2360.2  | 5.8       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 151.6   | 0.4       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 63°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5183.1  | 5183.1  | 5183.1  | 5183.1  | 5183.1  | 5183.1  | 5183.1  | 5183.1  | 5183.1  | 5183.1  | 5183.1  |
| 2.5°  | 4524.1  | 4513.6  | 4539.8  | 4565.9  | 4623.4  | 4691.4  | 4785.6  | 4864.0  | 4874.5  | 5020.9  | 5136.0  |
| 5°    | 4257.3  | 4241.6  | 4267.8  | 4299.2  | 4325.3  | 4409.0  | 4508.4  | 4623.4  | 4670.5  | 4885.0  | 5130.8  |
| 7.5°  | 4283.5  | 4278.3  | 4288.7  | 4278.3  | 4278.3  | 4314.9  | 4382.9  | 4497.9  | 4550.2  | 4806.5  | 5156.9  |
| 10°   | 4435.2  | 4445.6  | 4450.9  | 4419.5  | 4388.1  | 4372.4  | 4393.3  | 4471.8  | 4508.4  | 4811.7  | 5272.0  |
| 12.5° | 4686.2  | 4701.9  | 4707.1  | 4649.6  | 4607.8  | 4539.8  | 4503.2  | 4534.5  | 4560.7  | 4864.0  | 5434.1  |
| 15°   | 5026.2  | 5036.6  | 5000.0  | 4963.4  | 4858.8  | 4775.1  | 4686.2  | 4660.1  | 4670.5  | 4973.9  | 5617.2  |
| 17.5° | 5423.7  | 5408.0  | 5408.0  | 5319.1  | 5183.1  | 5052.3  | 4905.9  | 4885.0  | 4885.0  | 5151.7  | 5878.7  |
| 20°   | 5857.8  | 5873.5  | 5826.4  | 5706.1  | 5570.1  | 5366.1  | 5219.7  | 5125.5  | 5136.0  | 5355.7  | 6197.7  |
| 22.5° | 6485.4  | 6511.5  | 6386.0  | 6213.4  | 6004.2  | 5768.9  | 5559.6  | 5408.0  | 5413.2  | 5622.4  | 6527.2  |
| 25°   | 7160.1  | 7170.5  | 7092.1  | 6862.0  | 6579.5  | 6244.8  | 5967.6  | 5774.1  | 5768.9  | 5920.5  | 6950.9  |
| 27.5° | 7850.4  | 7897.5  | 7740.6  | 7521.0  | 7259.4  | 6841.0  | 6474.9  | 6213.4  | 6171.6  | 6375.5  | 7479.1  |
| 30°   | 8561.7  | 8619.3  | 8467.6  | 8253.2  | 7928.9  | 7573.3  | 7139.1  | 6835.8  | 6809.7  | 7081.6  | 8185.2  |
| 32.5° | 9278.3  | 9294.0  | 9173.7  | 8995.9  | 8703.0  | 8368.2  | 8017.8  | 7683.1  | 7656.9  | 8101.5  | 9100.5  |
| 35°   | 9864.1  | 9911.1  | 9827.4  | 9785.6  | 9571.2  | 9262.6  | 8922.6  | 8729.1  | 8797.1  | 9367.2  | 10287.7 |
| 37.5° | 10570.1 | 10617.2 | 10523.1 | 10512.6 | 10444.6 | 10177.9 | 9942.5  | 9958.2  | 10026.2 | 10800.3 | 11537.7 |
| 40°   | 11590.0 | 11642.3 | 11401.7 | 11297.1 | 11297.1 | 11035.6 | 10957.2 | 11328.5 | 11417.4 | 12212.4 | 12840.0 |
| 42.5° | 12453.0 | 12536.7 | 12395.4 | 12327.5 | 12123.5 | 11940.4 | 12034.6 | 12557.6 | 12709.3 | 13561.8 | 13975.0 |
| 45°   | 12871.4 | 12934.2 | 13101.5 | 13300.3 | 13101.5 | 12782.5 | 13138.1 | 13729.1 | 13943.6 | 14806.5 | 15109.9 |
| 47.5° | 13096.3 | 13153.8 | 13347.3 | 13880.8 | 14016.8 | 13750.1 | 14252.1 | 14989.6 | 15136.0 | 16040.9 | 16192.5 |
| 50°   | 13127.7 | 13310.7 | 13561.8 | 14095.2 | 14717.6 | 14754.2 | 15371.4 | 16271.0 | 16443.6 | 17254.3 | 17144.4 |
| 52.5° | 12871.4 | 12944.6 | 13462.4 | 14362.0 | 15052.4 | 15680.0 | 16590.0 | 17500.1 | 17625.6 | 18394.4 | 17986.5 |
| 55°   | 12453.0 | 12557.6 | 13075.4 | 14299.2 | 15376.6 | 16558.6 | 17829.6 | 18708.2 | 18849.4 | 19503.2 | 18765.8 |
| 57.5° | 12076.4 | 12128.7 | 12683.1 | 14116.2 | 15700.9 | 17437.3 | 18933.1 | 19968.7 | 20062.8 | 20476.0 | 19341.1 |
| 60°   | 11658.0 | 11715.5 | 12269.9 | 13723.9 | 15941.5 | 18101.5 | 20083.8 | 21239.6 | 21323.3 | 21501.1 | 20010.5 |
| 62.5° | 10575.4 | 10727.0 | 11422.6 | 13075.4 | 15878.7 | 18859.9 | 21312.8 | 22494.9 | 22599.5 | 22405.9 | 20538.8 |
| 65°   | 8587.9  | 8802.3  | 9654.8  | 11605.7 | 15292.9 | 19351.5 | 22317.0 | 23650.7 | 23828.5 | 23085.9 | 20680.0 |
| 67.5° | 6668.4  | 6820.1  | 7505.3  | 9210.3  | 13237.5 | 19105.7 | 22965.6 | 24445.7 | 24498.0 | 22976.0 | 19895.5 |
| 68°   | 6323.2  | 6474.9  | 7128.7  | 8708.2  | 12667.4 | 18812.8 | 22949.9 | 24466.6 | 24581.7 | 22855.7 | 19592.1 |
| 70°   | 4837.9  | 5010.5  | 5632.9  | 6898.6  | 10209.2 | 16950.9 | 21992.8 | 23964.5 | 23948.8 | 21401.8 | 17709.3 |
| 72.5° | 3023.0  | 3122.4  | 3551.3  | 4351.5  | 6752.1  | 12897.5 | 18666.4 | 21135.0 | 21176.9 | 17447.8 | 13582.7 |
| 75°   | 1919.5  | 1919.5  | 1898.5  | 2107.7  | 3462.4  | 7348.4  | 13875.6 | 16271.0 | 16302.4 | 12217.6 | 8561.7  |
| 77.5° | 1668.4  | 1621.3  | 1396.4  | 1182.0  | 1380.8  | 2855.7  | 8211.3  | 10507.4 | 10334.8 | 6579.5  | 4063.8  |
| 80°   | 1406.9  | 1328.5  | 1145.4  | 951.9   | 889.1   | 894.4   | 3153.8  | 5334.7  | 5104.6  | 2369.3  | 1349.4  |
| 82.5° | 1014.6  | 946.7   | 863.0   | 747.9   | 685.1   | 533.5   | 659.0   | 1542.9  | 1506.3  | 685.1   | 439.3   |
| 85°   | 549.2   | 496.9   | 486.4   | 491.6   | 413.2   | 329.5   | 277.2   | 340.0   | 340.0   | 298.1   | 251.0   |
| 87.5° | 193.5   | 141.2   | 167.4   | 188.3   | 162.1   | 136.0   | 109.8   | 130.8   | 136.0   | 130.8   | 120.3   |
| 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°    | 5183.1  | 5183.1  | 5183.1 | 5183.1 | 5183.1 | 5183.1 | 5183.1 | 5183.1 | 5183.1 | 5183.1 | 5183.1 |
| 2.5°  | 5204.0  | 5256.3  | 5381.8 | 5491.7 | 5570.1 | 5638.1 | 5674.7 | 5690.4 | 5727.0 | 5732.2 | 5721.8 |
| 5°    | 5245.8  | 5381.8  | 5570.1 | 5732.2 | 5821.2 | 5857.8 | 5868.2 | 5873.5 | 5857.8 | 5868.2 | 5857.8 |
| 7.5°  | 5355.7  | 5528.3  | 5795.0 | 5936.2 | 5951.9 | 5894.4 | 5899.6 | 5878.7 | 5899.6 | 5920.5 | 5920.5 |
| 10°   | 5523.0  | 5742.7  | 5993.7 | 6046.0 | 5978.1 | 5946.7 | 6009.4 | 6135.0 | 6176.8 | 6234.3 | 6234.3 |
| 12.5° | 5742.7  | 6004.2  | 6182.0 | 6135.0 | 6072.2 | 6176.8 | 6359.9 | 6485.4 | 6527.2 | 6548.1 | 6532.5 |
| 15°   | 5993.7  | 6276.2  | 6365.1 | 6208.2 | 6323.2 | 6548.1 | 6610.9 | 6537.7 | 6433.1 | 6386.0 | 6412.2 |
| 17.5° | 6312.8  | 6548.1  | 6495.8 | 6391.2 | 6652.7 | 6684.1 | 6480.2 | 6244.8 | 6077.4 | 6014.7 | 6056.5 |
| 20°   | 6647.5  | 6851.5  | 6610.9 | 6658.0 | 6820.1 | 6485.4 | 6098.4 | 5795.0 | 5648.6 | 5622.4 | 5664.2 |
| 22.5° | 7003.2  | 7133.9  | 6726.0 | 6966.6 | 6726.0 | 6046.0 | 5580.6 | 5423.7 | 5387.1 | 5428.9 | 5465.5 |
| 25°   | 7405.9  | 7390.2  | 6924.7 | 7060.7 | 6375.5 | 5507.3 | 5230.1 | 5219.7 | 5219.7 | 5245.8 | 5298.1 |
| 27.5° | 7860.9  | 7615.1  | 7123.5 | 6935.2 | 5768.9 | 5062.8 | 5010.5 | 5015.7 | 5000.0 | 5005.2 | 5031.4 |
| 30°   | 8389.2  | 7918.4  | 7343.1 | 6522.0 | 5088.9 | 4728.1 | 4707.1 | 4691.4 | 4654.8 | 4644.4 | 4654.8 |
| 32.5° | 9053.4  | 8237.5  | 7568.0 | 5842.1 | 4492.7 | 4382.9 | 4372.4 | 4288.7 | 4199.8 | 4189.3 | 4226.0 |
| 35°   | 9895.4  | 8818.0  | 7683.1 | 4989.6 | 4001.1 | 3995.8 | 3959.2 | 3828.5 | 3713.4 | 3713.4 | 3687.3 |
| 37.5° | 10857.8 | 9565.9  | 7730.2 | 4158.0 | 3593.1 | 3619.3 | 3514.7 | 3347.3 | 3258.4 | 3206.1 | 3221.8 |
| 40°   | 11841.1 | 10418.5 | 7724.9 | 3431.0 | 3237.5 | 3242.7 | 3164.2 | 2960.3 | 2740.6 | 2609.8 | 2641.2 |
| 42.5° | 12787.7 | 11192.5 | 7588.9 | 3043.9 | 2949.8 | 2934.1 | 2871.4 | 2594.2 | 2411.1 | 2306.5 | 2311.7 |
| 45°   | 13546.1 | 11992.7 | 7379.7 | 2813.8 | 2688.3 | 2714.4 | 2573.2 | 2405.9 | 2238.5 | 2144.4 | 2139.1 |
| 47.5° | 14304.4 | 12599.4 | 7045.0 | 2672.6 | 2494.8 | 2447.7 | 2390.2 | 2275.1 | 2149.6 | 2045.0 | 2050.2 |
| 50°   | 14994.8 | 13117.2 | 6731.2 | 2578.5 | 2317.0 | 2196.7 | 2207.1 | 2139.1 | 2029.3 | 1935.2 | 1929.9 |
| 52.5° | 15481.2 | 13457.2 | 6558.6 | 2526.2 | 2102.5 | 1971.8 | 2008.4 | 1971.8 | 1867.2 | 1799.2 | 1793.9 |
| 55°   | 15967.6 | 13718.7 | 6616.1 | 2458.2 | 1867.2 | 1762.6 | 1825.3 | 1814.9 | 1757.3 | 1736.4 | 1741.6 |
| 57.5° | 16359.9 | 13917.4 | 6820.1 | 2332.6 | 1642.3 | 1579.5 | 1684.1 | 1652.7 | 1610.9 | 1616.1 | 1616.1 |
| 60°   | 16741.7 | 14173.7 | 7060.7 | 2045.0 | 1448.8 | 1454.0 | 1553.4 | 1495.8 | 1469.7 | 1516.7 | 1522.0 |
| 62.5° | 17139.2 | 14450.9 | 6862.0 | 1626.6 | 1281.4 | 1318.0 | 1433.1 | 1386.0 | 1396.4 | 1464.4 | 1485.4 |
| 65°   | 17092.1 | 14424.7 | 5591.0 | 1333.7 | 1134.9 | 1208.2 | 1380.8 | 1365.1 | 1370.3 | 1396.4 | 1406.9 |
| 67.5° | 16129.8 | 13504.2 | 3844.2 | 1134.9 | 1030.3 | 1119.3 | 1338.9 | 1276.2 | 1281.4 | 1265.7 | 1270.9 |
| 68°   | 15805.5 | 13180.0 | 3389.1 | 1103.6 | 1009.4 | 1098.3 | 1318.0 | 1260.5 | 1265.7 | 1250.0 | 1244.8 |
| 70°   | 14037.7 | 11286.7 | 2144.4 | 972.8  | 936.2  | 1040.8 | 1213.4 | 1192.5 | 1187.2 | 1176.8 | 1176.8 |
| 72.5° | 10700.9 | 8331.6  | 1129.7 | 842.1  | 852.5  | 951.9  | 1082.6 | 1124.5 | 1098.3 | 1103.6 | 1134.9 |
| 75°   | 7086.8  | 5010.5  | 784.5  | 721.8  | 747.9  | 815.9  | 962.3  | 1046.0 | 1019.9 | 1035.6 | 1019.9 |
| 77.5° | 3750.0  | 2698.8  | 627.6  | 611.9  | 611.9  | 659.0  | 795.0  | 925.7  | 925.7  | 915.3  | 899.6  |
| 80°   | 1229.1  | 951.9   | 502.1  | 481.2  | 491.6  | 517.8  | 638.1  | 758.4  | 774.1  | 753.1  | 742.7  |
| 82.5° | 413.2   | 439.3   | 376.6  | 350.4  | 360.9  | 381.8  | 481.2  | 580.5  | 585.8  | 543.9  | 533.5  |
| 85°   | 256.3   | 292.9   | 235.4  | 230.1  | 230.1  | 235.4  | 292.9  | 319.0  | 292.9  | 261.5  | 272.0  |
| 87.5° | 120.3   | 146.4   | 109.8  | 94.1   | 78.5   | 68.0   | 52.3   | 20.9   | 20.9   | 10.5   | 10.5   |
| 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)