

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: P1211205

Luminaire Tested: **ARCH4-200-740-U-T2RE**

Issue Date: 11/5/2025

### Test Information

Test Method: LM-79-08  
Report Number: P1211205  
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: ARCH4-200-740-U-T2RE  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II  
ROADWAY ILLUMINANCE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 31809 lumens  
Efficiency: N/A  
Efficacy: 156.2 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): 203.7  
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

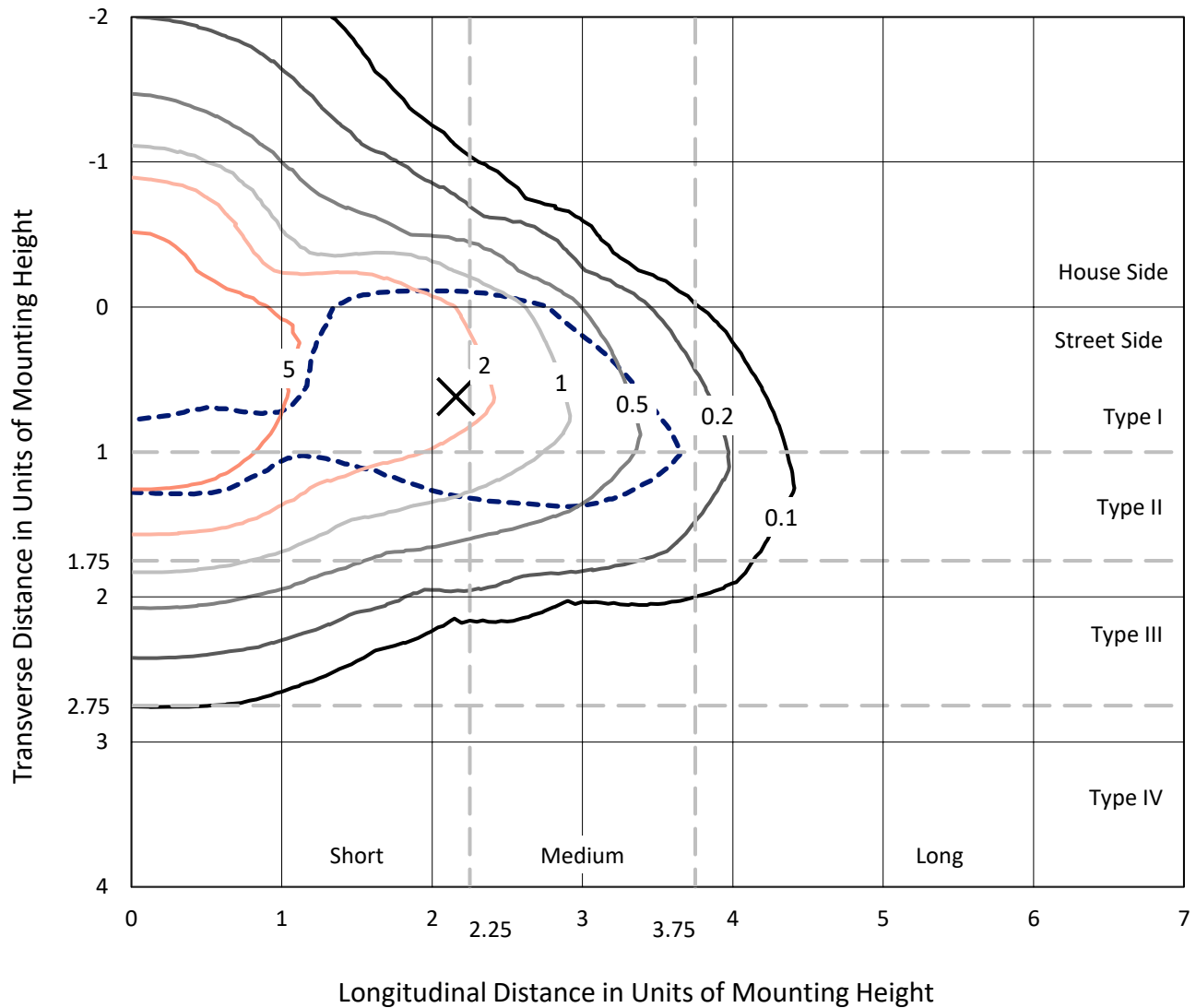


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## Iso-Footcandle Lines of Horizontal Illumination

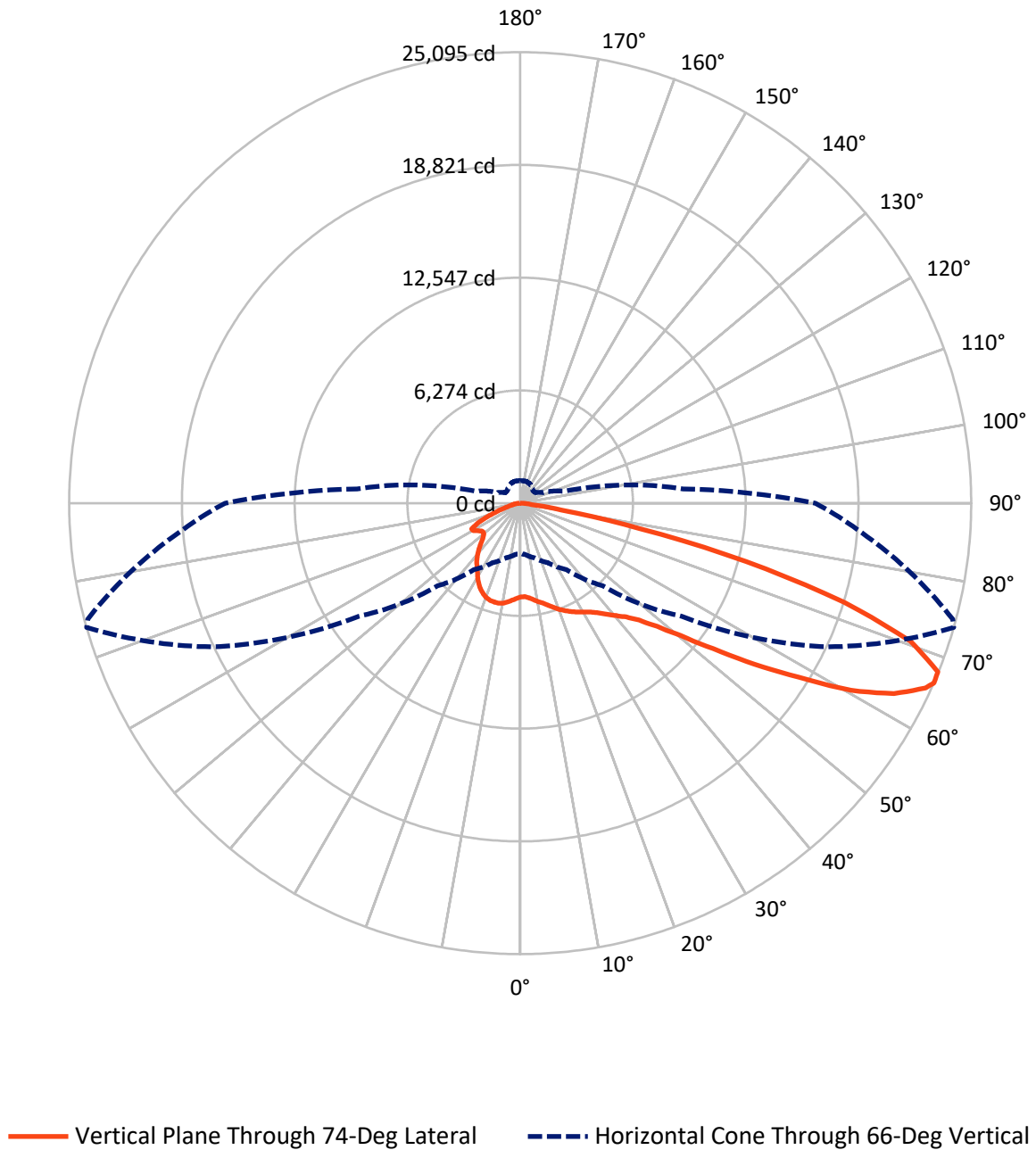
✕ Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc  
Type II - Short - N/A

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## Luminous Intensity Polar Plot



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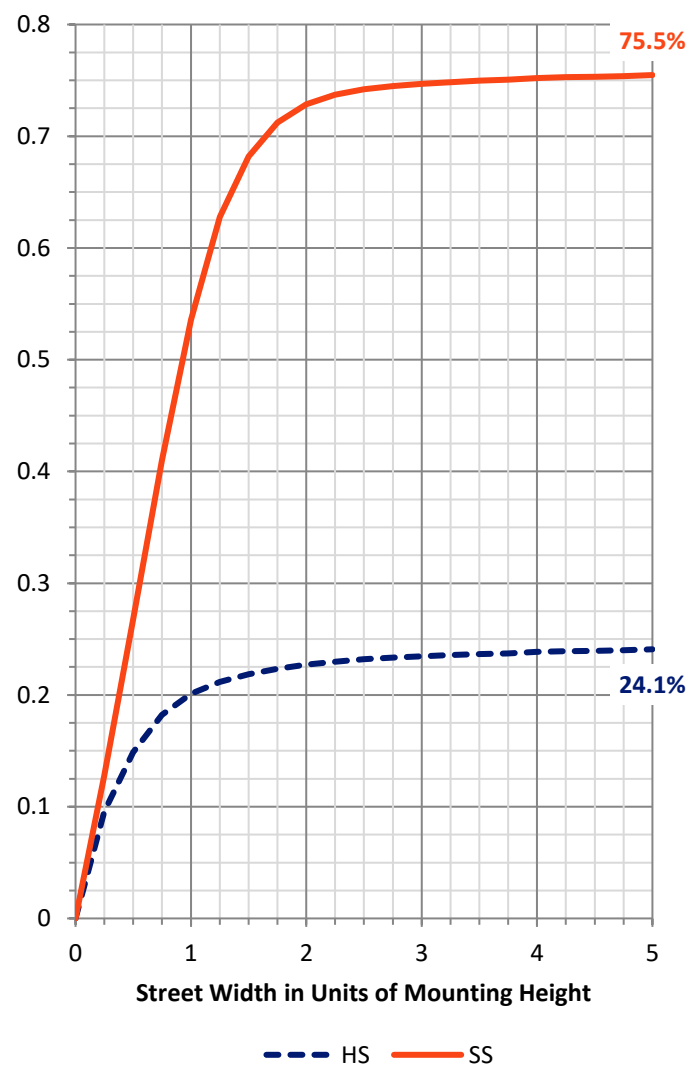
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7746.4   | 0.0    | 7746.4  |
|                    | % Fixture | 24.4     | 0.0    | 24.4    |
| <b>Street Side</b> | Lumens    | 24062.6  | 0.0    | 24062.6 |
|                    | % Fixture | 75.6     | 0.0    | 75.6    |
| <b>Total</b>       | Lumens    | 31809.0  | 0.0    | 31809.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 497.4   | 1.6       |
| 10°-20°   | 1529.7  | 4.8       |
| 20°-30°   | 2870.4  | 9.0       |
| 30°-40°   | 4415.4  | 13.9      |
| 40°-50°   | 5939.1  | 18.7      |
| 50°-60°   | 7023.7  | 22.1      |
| 60°-70°   | 6497.3  | 20.4      |
| 70°-80°   | 2733.4  | 8.6       |
| 80°-90°   | 302.5   | 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°    | 31809.0 | 100.0     |
| 0°-180°   | 31809.0 | 100.0     |

**Coefficient of Utilization**



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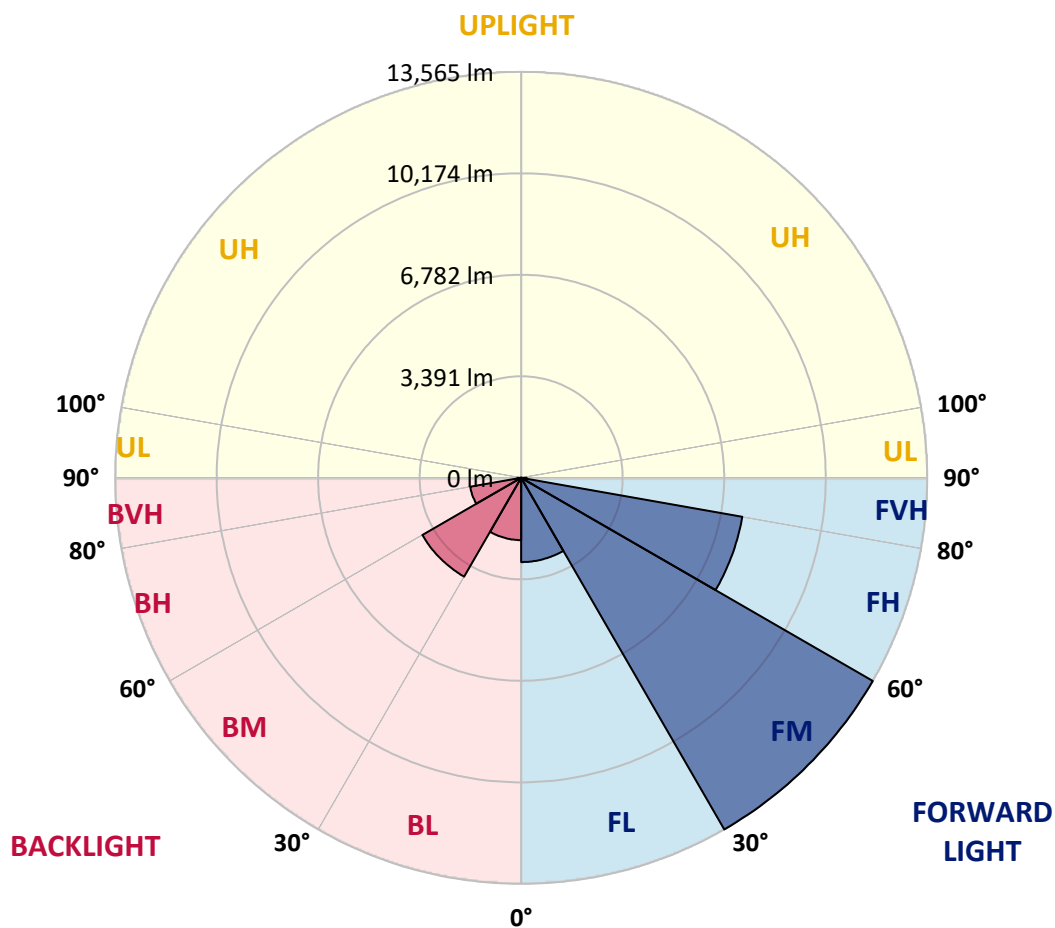
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2815.5  | 8.9       |                         |      |          |
| FM   | (30°-60°)   | 13564.8 | 42.6      |                         |      |          |
| FH   | (60°-80°)   | 7501.5  | 23.6      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 181.0   | 0.6       |                         |      | G2/225   |
| BL   | (0°-30°)    | 2082.1  | 6.5       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 3813.5  | 12.0      | B3/5000                 |      |          |
| BH   | (60°-80°)   | 1729.3  | 5.4       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 121.5   | 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°    | 5214.6  | 5214.6  | 5214.6  | 5214.6  | 5214.6  | 5214.6  | 5214.6  | 5214.6  | 5214.6  | 5214.6  | 5214.6  |
| 2.5°  | 5198.2  | 5190.0  | 5206.4  | 5230.9  | 5243.2  | 5222.7  | 5214.6  | 5210.5  | 5210.5  | 5198.2  | 5218.6  |
| 5°    | 4952.6  | 4948.5  | 4985.3  | 5030.4  | 5116.3  | 5177.7  | 5259.6  | 5308.7  | 5292.3  | 5267.8  | 5284.1  |
| 7.5°  | 4633.3  | 4625.2  | 4670.2  | 4756.1  | 4874.8  | 5009.9  | 5210.5  | 5366.0  | 5427.4  | 5419.2  | 5415.1  |
| 10°   | 4756.1  | 4747.9  | 4743.9  | 4719.3  | 4760.2  | 4891.2  | 5099.9  | 5374.2  | 5582.9  | 5587.0  | 5591.1  |
| 12.5° | 5181.8  | 5202.3  | 5181.8  | 5104.0  | 5014.0  | 4964.9  | 5087.7  | 5394.6  | 5713.9  | 5738.5  | 5840.8  |
| 15°   | 5763.0  | 5742.6  | 5701.6  | 5611.6  | 5472.4  | 5325.1  | 5235.0  | 5488.8  | 5902.2  | 5922.7  | 6147.8  |
| 17.5° | 6274.7  | 6291.0  | 6266.5  | 6180.5  | 6016.8  | 5824.4  | 5550.2  | 5652.5  | 6102.7  | 6160.0  | 6475.2  |
| 20°   | 6831.3  | 6896.8  | 6864.1  | 6757.6  | 6622.6  | 6336.0  | 5992.2  | 5889.9  | 6323.8  | 6364.7  | 6814.9  |
| 22.5° | 7473.9  | 7543.5  | 7482.1  | 7379.8  | 7269.3  | 6917.3  | 6475.2  | 6180.5  | 6508.0  | 6593.9  | 7142.4  |
| 25°   | 8243.4  | 8308.9  | 8251.6  | 8092.0  | 7952.8  | 7523.0  | 6995.0  | 6508.0  | 6688.1  | 6782.2  | 7408.4  |
| 27.5° | 8853.3  | 8902.4  | 8955.6  | 8861.5  | 8648.6  | 8202.5  | 7535.3  | 6847.7  | 6868.1  | 6966.4  | 7654.0  |
| 30°   | 9397.7  | 9520.4  | 9565.5  | 9577.7  | 9397.7  | 8898.3  | 8087.9  | 7199.7  | 7023.7  | 7126.0  | 7899.6  |
| 32.5° | 10142.6 | 10326.8 | 10253.1 | 10326.8 | 10220.4 | 9553.2  | 8660.9  | 7564.0  | 7224.2  | 7318.4  | 8132.9  |
| 35°   | 11231.3 | 11378.7 | 11186.3 | 11129.0 | 10957.1 | 10216.3 | 9213.5  | 7940.5  | 7490.3  | 7592.6  | 8353.9  |
| 37.5° | 12402.0 | 12569.8 | 12291.4 | 12062.2 | 11734.8 | 10871.2 | 9688.3  | 8435.8  | 7858.7  | 7940.5  | 8558.6  |
| 40°   | 13425.2 | 13564.4 | 13322.9 | 13020.0 | 12471.5 | 11448.3 | 10097.6 | 8783.7  | 8227.0  | 8329.4  | 8796.0  |
| 42.5° | 14370.7 | 14460.8 | 14190.6 | 13900.0 | 13167.4 | 11968.1 | 10539.6 | 9152.1  | 8656.8  | 8755.0  | 8988.3  |
| 45°   | 15328.5 | 15398.1 | 15021.5 | 14608.1 | 13748.6 | 12442.9 | 11026.7 | 9667.8  | 9287.1  | 9418.1  | 9299.4  |
| 47.5° | 15500.4 | 15520.9 | 15455.4 | 15177.0 | 14207.0 | 12897.2 | 11628.4 | 10359.5 | 10249.0 | 10392.3 | 9835.6  |
| 50°   | 14309.3 | 14493.5 | 14898.7 | 15173.0 | 14391.2 | 13277.9 | 12230.0 | 11350.0 | 11575.2 | 11759.3 | 10948.9 |
| 52.5° | 11996.7 | 12172.7 | 13110.1 | 14149.7 | 13949.1 | 13363.8 | 12876.8 | 12606.6 | 13445.7 | 13666.7 | 12463.4 |
| 55°   | 9557.3  | 9712.8  | 10703.3 | 12201.4 | 12520.7 | 12970.9 | 13568.5 | 14211.1 | 15831.9 | 15979.3 | 14125.1 |
| 57.5° | 7870.9  | 7956.9  | 8665.0  | 10105.8 | 10617.4 | 11714.3 | 13940.9 | 16118.5 | 18259.1 | 18484.2 | 15570.0 |
| 60°   | 6454.7  | 6548.9  | 7076.9  | 8263.9  | 8943.3  | 9917.5  | 13646.2 | 18001.3 | 21157.0 | 21157.0 | 17424.1 |
| 62.5° | 4858.5  | 4940.3  | 5431.5  | 6360.6  | 7502.6  | 8394.9  | 12704.8 | 19249.6 | 23342.7 | 23244.5 | 18766.7 |
| 65°   | 3335.8  | 3401.3  | 3757.4  | 4375.5  | 5402.8  | 7154.7  | 11419.6 | 19266.0 | 24791.6 | 24660.7 | 19339.7 |
| 66°   | 2799.6  | 2857.0  | 3159.8  | 3659.2  | 4522.8  | 6491.6  | 10965.3 | 18918.1 | 25094.5 | 24910.3 | 19098.2 |
| 67.5° | 2210.2  | 2251.2  | 2451.7  | 2746.4  | 3315.4  | 5255.5  | 10249.0 | 17931.7 | 25065.9 | 24955.4 | 18484.2 |
| 70°   | 1579.9  | 1608.6  | 1755.9  | 1817.3  | 1960.6  | 3041.1  | 8141.1  | 15705.1 | 23056.2 | 23088.9 | 16069.3 |
| 72.5° | 1223.8  | 1268.8  | 1358.9  | 1371.2  | 1338.4  | 1616.8  | 4940.3  | 13101.9 | 18860.8 | 18848.5 | 11927.2 |
| 75°   | 986.4   | 1011.0  | 1056.0  | 1080.6  | 1072.4  | 1043.7  | 2091.6  | 9774.2  | 12983.2 | 13134.6 | 6679.9  |
| 77.5° | 777.7   | 773.6   | 814.5   | 847.3   | 871.8   | 818.6   | 957.8   | 5730.3  | 6806.8  | 6614.4  | 2509.0  |
| 80°   | 573.0   | 573.0   | 630.3   | 642.6   | 679.4   | 687.6   | 638.5   | 2210.2  | 2337.1  | 2124.3  | 650.8   |
| 82.5° | 376.6   | 376.6   | 438.0   | 446.1   | 483.0   | 536.2   | 462.5   | 663.1   | 646.7   | 614.0   | 294.7   |
| 85°   | 204.7   | 196.5   | 216.9   | 245.6   | 266.0   | 315.2   | 278.3   | 331.5   | 339.7   | 335.6   | 196.5   |
| 87.5° | 40.9    | 36.8    | 57.3    | 65.5    | 73.7    | 98.2    | 90.0    | 135.1   | 188.3   | 184.2   | 86.0    |
| 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°    | 5214.6  | 5214.6  | 5214.6 | 5214.6 | 5214.6 | 5214.6 | 5214.6 | 5214.6 | 5214.6 | 5214.6 | 5214.6 |
| 2.5°  | 5247.3  | 5243.2  | 5288.2 | 5341.4 | 5402.8 | 5439.7 | 5456.0 | 5484.7 | 5464.2 | 5472.4 | 5497.0 |
| 5°    | 5325.1  | 5337.3  | 5402.8 | 5472.4 | 5501.1 | 5480.6 | 5435.6 | 5419.2 | 5382.4 | 5374.2 | 5366.0 |
| 7.5°  | 5439.7  | 5460.1  | 5525.6 | 5542.0 | 5456.0 | 5312.8 | 5210.5 | 5153.2 | 5091.8 | 5075.4 | 5067.2 |
| 10°   | 5628.0  | 5640.2  | 5656.6 | 5488.8 | 5275.9 | 5083.6 | 4956.7 | 4903.5 | 4862.5 | 4829.8 | 4838.0 |
| 12.5° | 5865.3  | 5857.2  | 5730.3 | 5382.4 | 5079.5 | 4883.0 | 4797.1 | 4764.3 | 4735.7 | 4715.2 | 4711.1 |
| 15°   | 6164.1  | 6106.8  | 5742.6 | 5235.0 | 4895.3 | 4731.6 | 4670.2 | 4657.9 | 4625.2 | 4625.2 | 4621.1 |
| 17.5° | 6467.0  | 6319.7  | 5734.4 | 5079.5 | 4719.3 | 4629.2 | 4592.4 | 4584.2 | 4576.0 | 4571.9 | 4584.2 |
| 20°   | 6769.9  | 6508.0  | 5668.9 | 4887.1 | 4596.5 | 4543.3 | 4535.1 | 4539.2 | 4531.0 | 4543.3 | 4535.1 |
| 22.5° | 7036.0  | 6630.7  | 5546.1 | 4682.5 | 4510.5 | 4506.5 | 4486.0 | 4494.2 | 4522.8 | 4526.9 | 4539.2 |
| 25°   | 7240.6  | 6675.8  | 5366.0 | 4494.2 | 4449.2 | 4441.0 | 4465.5 | 4498.3 | 4522.8 | 4526.9 | 4547.4 |
| 27.5° | 7408.4  | 6651.2  | 5140.9 | 4346.8 | 4342.7 | 4387.8 | 4461.4 | 4473.7 | 4477.8 | 4477.8 | 4461.4 |
| 30°   | 7535.3  | 6598.0  | 4854.4 | 4183.1 | 4203.6 | 4314.1 | 4383.7 | 4383.7 | 4350.9 | 4342.7 | 4367.3 |
| 32.5° | 7564.0  | 6528.4  | 4543.3 | 4015.3 | 4048.0 | 4179.0 | 4265.0 | 4236.3 | 4199.5 | 4199.5 | 4215.8 |
| 35°   | 7588.5  | 6434.3  | 4293.6 | 3786.1 | 3835.2 | 3990.7 | 4072.6 | 4015.3 | 3974.4 | 3962.1 | 3958.0 |
| 37.5° | 7580.3  | 6397.4  | 4068.5 | 3495.5 | 3561.0 | 3712.4 | 3765.6 | 3712.4 | 3651.0 | 3622.4 | 3659.2 |
| 40°   | 7588.5  | 6372.9  | 3786.1 | 3176.2 | 3241.7 | 3331.7 | 3401.3 | 3360.4 | 3303.1 | 3229.4 | 3266.3 |
| 42.5° | 7637.6  | 6405.6  | 3475.0 | 2865.1 | 2865.1 | 2914.3 | 3033.0 | 3004.3 | 2865.1 | 2836.5 | 2869.2 |
| 45°   | 7899.6  | 6581.6  | 3163.9 | 2554.1 | 2509.0 | 2541.8 | 2664.6 | 2541.8 | 2455.8 | 2455.8 | 2484.5 |
| 47.5° | 8534.0  | 6909.1  | 2889.7 | 2279.8 | 2173.4 | 2238.9 | 2271.6 | 2157.0 | 2091.6 | 2075.2 | 2103.8 |
| 50°   | 9827.4  | 7564.0  | 2726.0 | 2054.7 | 1923.7 | 1972.9 | 1952.4 | 1948.3 | 1882.8 | 1891.0 | 1907.4 |
| 52.5° | 11792.1 | 8841.0  | 2676.9 | 1944.2 | 1780.5 | 1792.8 | 1772.3 | 1780.5 | 1768.2 | 1809.1 | 1821.4 |
| 55°   | 13932.8 | 10187.6 | 2738.3 | 1960.6 | 1682.2 | 1596.3 | 1604.5 | 1645.4 | 1694.5 | 1760.0 | 1772.3 |
| 57.5° | 15533.1 | 10863.0 | 2897.9 | 2071.1 | 1559.5 | 1428.5 | 1448.9 | 1526.7 | 1620.8 | 1674.1 | 1702.7 |
| 60°   | 16724.2 | 10781.1 | 3131.2 | 2099.7 | 1412.1 | 1277.0 | 1313.9 | 1428.5 | 1510.3 | 1555.4 | 1584.0 |
| 62.5° | 17113.1 | 10269.5 | 3188.5 | 1891.0 | 1219.7 | 1133.8 | 1223.8 | 1342.5 | 1379.4 | 1428.5 | 1448.9 |
| 65°   | 16793.8 | 9545.0  | 2771.0 | 1534.9 | 1072.4 | 1027.4 | 1158.3 | 1248.4 | 1297.5 | 1322.1 | 1326.1 |
| 66°   | 16417.2 | 9111.1  | 2545.9 | 1395.7 | 1019.2 | 994.6  | 1133.8 | 1207.5 | 1256.6 | 1252.5 | 1256.6 |
| 67.5° | 15590.4 | 8202.5  | 2181.6 | 1199.3 | 941.4  | 945.5  | 1092.8 | 1142.0 | 1158.3 | 1146.1 | 1146.1 |
| 70°   | 12778.5 | 5775.3  | 1563.5 | 908.7  | 826.8  | 884.1  | 982.3  | 994.6  | 1031.4 | 1015.1 | 1015.1 |
| 72.5° | 7879.1  | 2836.5  | 1047.8 | 695.8  | 736.7  | 826.8  | 822.7  | 863.6  | 949.6  | 974.1  | 990.5  |
| 75°   | 3872.0  | 1150.1  | 691.7  | 589.4  | 659.0  | 691.7  | 683.5  | 785.9  | 908.7  | 1015.1 | 1051.9 |
| 77.5° | 1469.4  | 573.0   | 483.0  | 515.7  | 532.1  | 519.8  | 544.4  | 712.2  | 908.7  | 1101.0 | 1137.9 |
| 80°   | 454.3   | 397.0   | 380.7  | 425.7  | 401.1  | 380.7  | 409.3  | 589.4  | 769.5  | 835.0  | 835.0  |
| 82.5° | 274.2   | 311.1   | 294.7  | 290.6  | 270.1  | 274.2  | 294.7  | 421.6  | 593.5  | 622.1  | 622.1  |
| 85°   | 192.4   | 204.7   | 167.8  | 159.6  | 155.5  | 151.4  | 151.4  | 245.6  | 352.0  | 347.9  | 360.2  |
| 87.5° | 73.7    | 81.9    | 61.4   | 61.4   | 57.3   | 40.9   | 32.7   | 40.9   | 40.9   | 28.7   | 20.5   |
| 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)