

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: P1211285

Luminaire Tested: **ARCH4-230-722-U-T2RE**

Issue Date: 11/5/2025

### Test Information

Test Method: LM-79-08  
Report Number: P1211285  
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: ARCH4-230-722-U-T2RE  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2200K, 905mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II  
ROADWAY ILLUMINANCE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 29392 lumens  
Efficiency: N/A  
Efficacy: 127.1 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
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



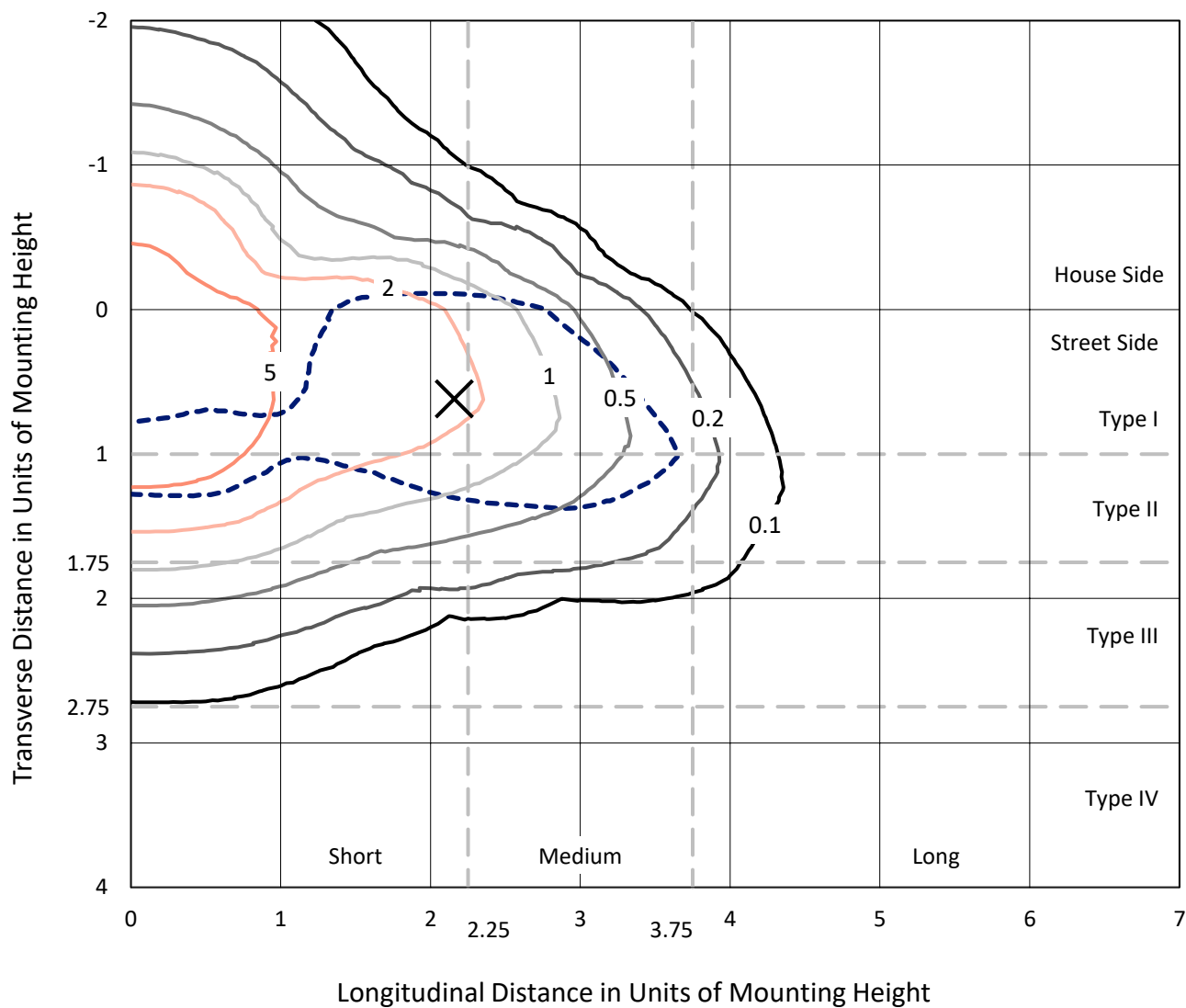
REPORT NUMBER: P1211285

CATALOG NUMBER: ARCH4-230-722-U-T2RE

## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

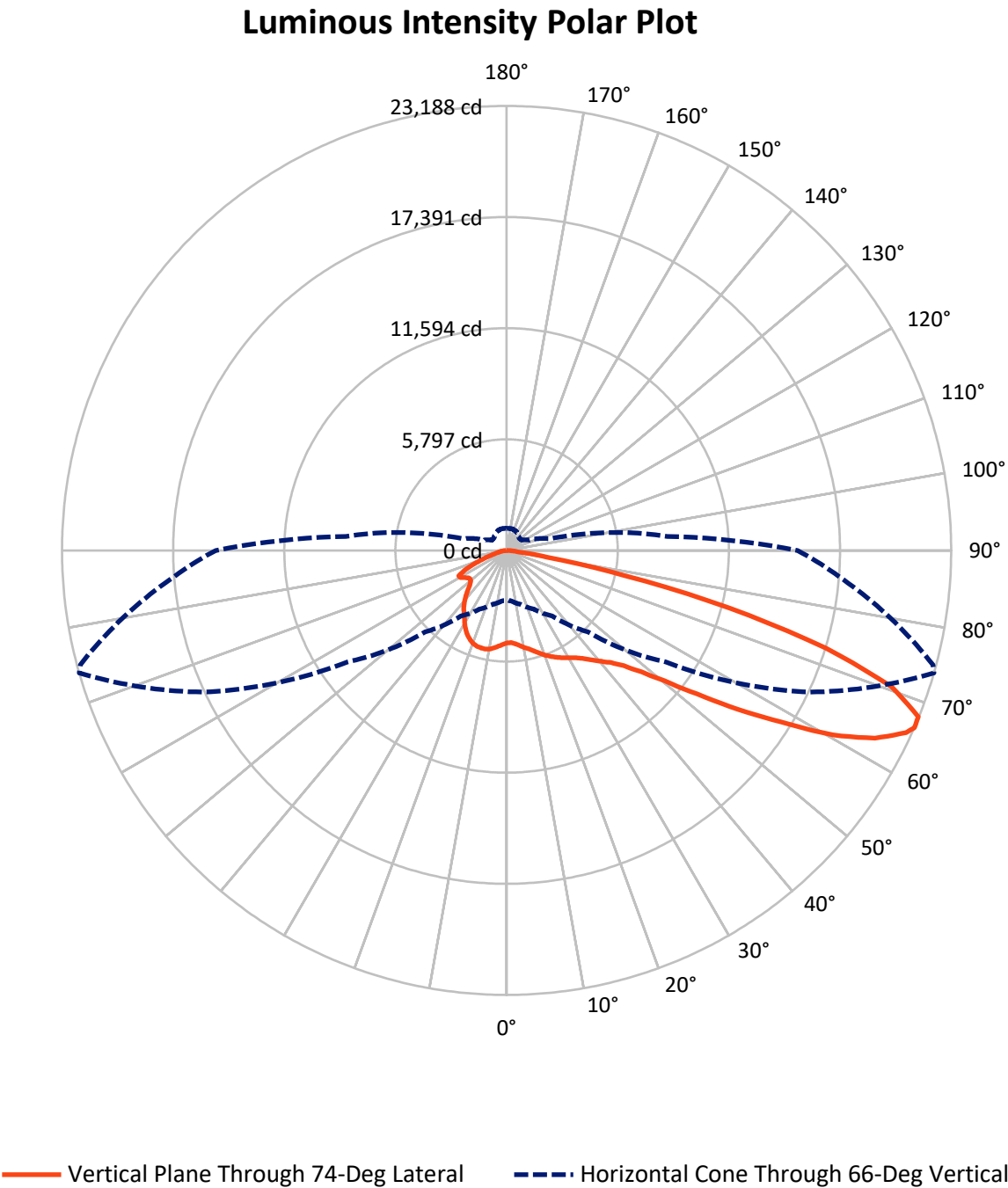
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc

Type II - Short - N/A

REPORT NUMBER: P1211285  
CATALOG NUMBER: ARCH4-230-722-U-T2RE



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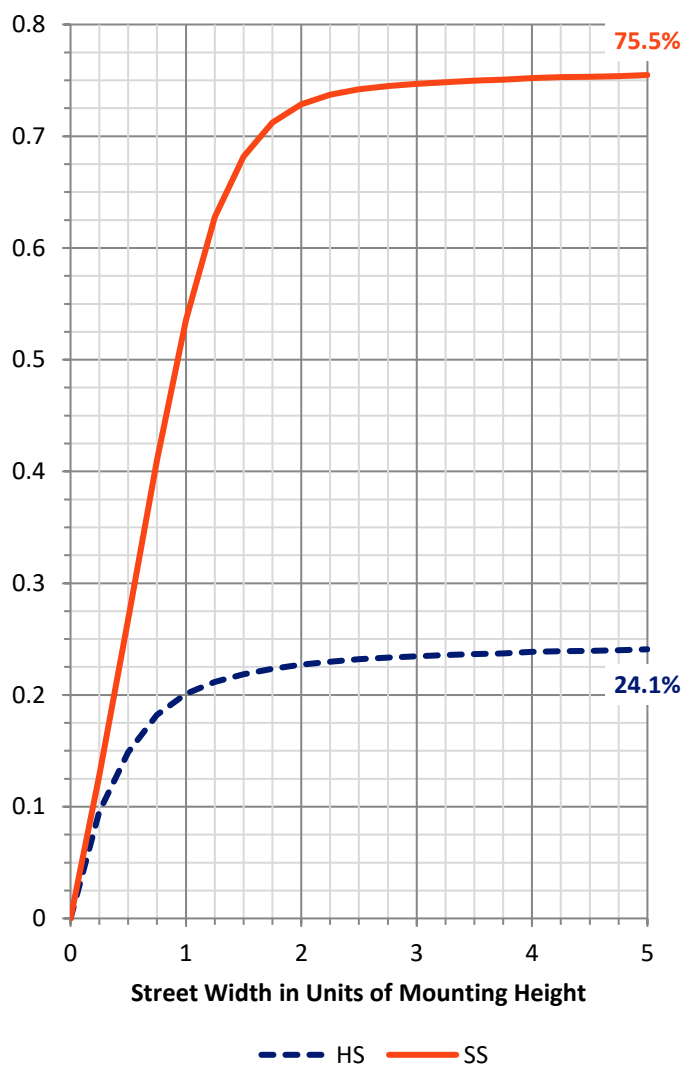
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7157.7   | 0.0    | 7157.7  |
|                    | % Fixture | 24.4     | 0.0    | 24.4    |
| <b>Street Side</b> | Lumens    | 22234.2  | 0.0    | 22234.2 |
|                    | % Fixture | 75.6     | 0.0    | 75.6    |
| <b>Total</b>       | Lumens    | 29392.0  | 0.0    | 29392.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 459.6   | 1.6       |
| 10°-20°   | 1413.4  | 4.8       |
| 20°-30°   | 2652.3  | 9.0       |
| 30°-40°   | 4079.9  | 13.9      |
| 40°-50°   | 5487.8  | 18.7      |
| 50°-60°   | 6490.0  | 22.1      |
| 60°-70°   | 6003.6  | 20.4      |
| 70°-80°   | 2525.7  | 8.6       |
| 80°-90°   | 279.5   | 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°    | 29392.0 | 100.0     |
| 0°-180°   | 29392.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P1211285

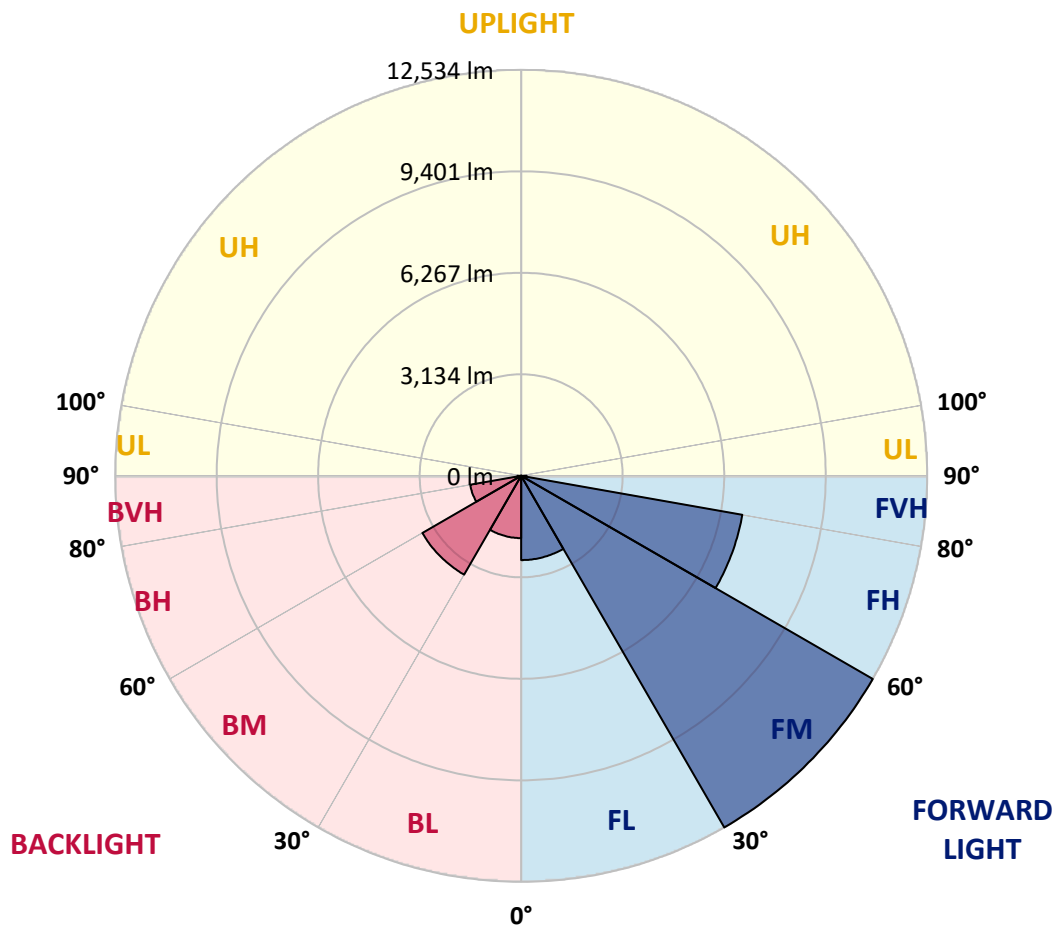
CATALOG NUMBER: ARCH4-230-722-U-T2RE

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2601.5  | 8.9       |                         |      |         |
| FM   | (30°-60°)   | 12534.0 | 42.6      |                         |      |         |
| FH   | (60°-80°)   | 6931.5  | 23.6      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 167.2   | 0.6       |                         |      | G2/225  |
| BL   | (0°-30°)    | 1923.8  | 6.5       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 3523.8  | 12.0      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1597.9  | 5.4       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 112.3   | 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-G3**

Type II Short



REPORT NUMBER: P1211285

CATALOG NUMBER: ARCH4-230-722-U-T2RE

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 74°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4818.3  | 4818.3  | 4818.3  | 4818.3  | 4818.3  | 4818.3  | 4818.3  | 4818.3  | 4818.3  | 4818.3  | 4818.3  |
| 2.5°  | 4803.2  | 4795.6  | 4810.8  | 4833.5  | 4844.8  | 4825.9  | 4818.3  | 4814.5  | 4814.5  | 4803.2  | 4822.1  |
| 5°    | 4576.3  | 4572.5  | 4606.5  | 4648.1  | 4727.6  | 4784.3  | 4859.9  | 4905.3  | 4890.2  | 4867.5  | 4882.6  |
| 7.5°  | 4281.3  | 4273.7  | 4315.3  | 4394.7  | 4504.4  | 4629.2  | 4814.5  | 4958.3  | 5015.0  | 5007.4  | 5003.6  |
| 10°   | 4394.7  | 4387.2  | 4383.4  | 4360.7  | 4398.5  | 4519.5  | 4712.4  | 4965.8  | 5158.7  | 5162.5  | 5166.3  |
| 12.5° | 4788.1  | 4807.0  | 4788.1  | 4716.2  | 4633.0  | 4587.6  | 4701.1  | 4984.7  | 5279.7  | 5302.4  | 5397.0  |
| 15°   | 5325.1  | 5306.2  | 5268.4  | 5185.2  | 5056.6  | 4920.4  | 4837.2  | 5071.7  | 5453.7  | 5472.6  | 5680.6  |
| 17.5° | 5797.9  | 5813.0  | 5790.3  | 5710.9  | 5559.6  | 5381.9  | 5128.5  | 5223.0  | 5639.0  | 5692.0  | 5983.2  |
| 20°   | 6312.2  | 6372.7  | 6342.5  | 6244.2  | 6119.3  | 5854.6  | 5536.9  | 5442.4  | 5843.3  | 5881.1  | 6297.1  |
| 22.5° | 6906.0  | 6970.3  | 6913.6  | 6819.0  | 6716.9  | 6391.7  | 5983.2  | 5710.9  | 6013.5  | 6092.9  | 6599.7  |
| 25°   | 7617.0  | 7677.6  | 7624.6  | 7477.1  | 7348.5  | 6951.4  | 6463.5  | 6013.5  | 6179.9  | 6266.8  | 6845.5  |
| 27.5° | 8180.6  | 8225.9  | 8275.1  | 8188.1  | 7991.5  | 7579.2  | 6962.7  | 6327.4  | 6346.3  | 6437.0  | 7072.4  |
| 30°   | 8683.6  | 8797.0  | 8838.6  | 8850.0  | 8683.6  | 8222.2  | 7473.3  | 6652.6  | 6490.0  | 6584.5  | 7299.3  |
| 32.5° | 9371.9  | 9542.1  | 9474.0  | 9542.1  | 9443.8  | 8827.3  | 8002.8  | 6989.2  | 6675.3  | 6762.3  | 7514.9  |
| 35°   | 10377.9 | 10514.1 | 10336.3 | 10283.4 | 10124.5 | 9440.0  | 8513.4  | 7337.2  | 6921.1  | 7015.7  | 7719.2  |
| 37.5° | 11459.6 | 11614.7 | 11357.5 | 11145.7 | 10843.1 | 10045.1 | 8952.1  | 7794.8  | 7261.5  | 7337.2  | 7908.3  |
| 40°   | 12405.1 | 12533.7 | 12310.6 | 12030.7 | 11523.9 | 10578.4 | 9330.3  | 8116.3  | 7601.9  | 7696.5  | 8127.6  |
| 42.5° | 13278.8 | 13362.0 | 13112.4 | 12843.8 | 12166.8 | 11058.7 | 9738.8  | 8456.7  | 7999.0  | 8089.8  | 8305.4  |
| 45°   | 14163.8 | 14228.1 | 13880.1 | 13498.1 | 12703.9 | 11497.4 | 10188.8 | 8933.2  | 8581.5  | 8702.5  | 8592.8  |
| 47.5° | 14322.6 | 14341.5 | 14281.0 | 14023.8 | 13127.5 | 11917.2 | 10744.8 | 9572.4  | 9470.2  | 9602.6  | 9088.3  |
| 50°   | 13222.0 | 13392.2 | 13766.6 | 14020.0 | 13297.7 | 12269.0 | 11300.8 | 10487.6 | 10695.6 | 10865.8 | 10117.0 |
| 52.5° | 11085.2 | 11247.8 | 12113.9 | 13074.5 | 12889.2 | 12348.4 | 11898.3 | 11648.7 | 12424.0 | 12628.3 | 11516.3 |
| 55°   | 8831.1  | 8974.8  | 9890.0  | 11274.3 | 11569.3 | 11985.3 | 12537.5 | 13131.3 | 14629.0 | 14765.1 | 13051.8 |
| 57.5° | 7272.9  | 7352.3  | 8006.6  | 9337.9  | 9810.6  | 10824.2 | 12881.6 | 14893.7 | 16871.7 | 17079.7 | 14386.9 |
| 60°   | 5964.3  | 6051.3  | 6539.2  | 7635.9  | 8263.8  | 9163.9  | 12609.3 | 16633.4 | 19549.4 | 19549.4 | 16100.2 |
| 62.5° | 4489.3  | 4564.9  | 5018.8  | 5877.3  | 6932.5  | 7757.0  | 11739.5 | 17787.0 | 21569.0 | 21478.2 | 17340.7 |
| 65°   | 3082.4  | 3142.9  | 3471.9  | 4043.0  | 4992.3  | 6611.0  | 10551.9 | 17802.1 | 22907.8 | 22786.8 | 17870.2 |
| 66°   | 2586.9  | 2639.9  | 2919.7  | 3381.1  | 4179.2  | 5998.3  | 10132.1 | 17480.6 | 23187.7 | 23017.5 | 17647.0 |
| 67.5° | 2042.3  | 2080.1  | 2265.4  | 2537.8  | 3063.5  | 4856.1  | 9470.2  | 16569.1 | 23161.2 | 23059.1 | 17079.7 |
| 70°   | 1459.9  | 1486.3  | 1622.5  | 1679.2  | 1811.6  | 2810.1  | 7522.5  | 14511.7 | 21304.3 | 21334.5 | 14848.3 |
| 72.5° | 1130.8  | 1172.4  | 1255.6  | 1267.0  | 1236.7  | 1493.9  | 4564.9  | 12106.3 | 17427.7 | 17416.3 | 11020.9 |
| 75°   | 911.5   | 934.2   | 975.8   | 998.5   | 990.9   | 964.4   | 1932.6  | 9031.5  | 11996.6 | 12136.6 | 6172.3  |
| 77.5° | 718.6   | 714.8   | 752.6   | 782.9   | 805.6   | 756.4   | 885.0   | 5294.9  | 6289.5  | 6111.8  | 2318.4  |
| 80°   | 529.5   | 529.5   | 582.4   | 593.8   | 627.8   | 635.4   | 590.0   | 2042.3  | 2159.5  | 1962.9  | 601.3   |
| 82.5° | 347.9   | 347.9   | 404.7   | 412.2   | 446.3   | 495.4   | 427.4   | 612.7   | 597.6   | 567.3   | 272.3   |
| 85°   | 189.1   | 181.5   | 200.4   | 226.9   | 245.8   | 291.2   | 257.2   | 306.3   | 313.9   | 310.1   | 181.5   |
| 87.5° | 37.8    | 34.0    | 52.9    | 60.5    | 68.1    | 90.8    | 83.2    | 124.8   | 174.0   | 170.2   | 79.4    |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

REPORT NUMBER: P1211285

CATALOG NUMBER: ARCH4-230-722-U-T2RE

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 4818.3  | 4818.3  | 4818.3 | 4818.3 | 4818.3 | 4818.3 | 4818.3 | 4818.3 | 4818.3 | 4818.3 | 4818.3 |
| 2.5°  | 4848.6  | 4844.8  | 4886.4 | 4935.6 | 4992.3 | 5026.3 | 5041.5 | 5067.9 | 5049.0 | 5056.6 | 5079.3 |
| 5°    | 4920.4  | 4931.8  | 4992.3 | 5056.6 | 5083.1 | 5064.2 | 5022.6 | 5007.4 | 4973.4 | 4965.8 | 4958.3 |
| 7.5°  | 5026.3  | 5045.2  | 5105.8 | 5120.9 | 5041.5 | 4909.1 | 4814.5 | 4761.6 | 4704.9 | 4689.7 | 4682.2 |
| 10°   | 5200.3  | 5211.7  | 5226.8 | 5071.7 | 4875.1 | 4697.3 | 4580.1 | 4530.9 | 4493.1 | 4462.8 | 4470.4 |
| 12.5° | 5419.7  | 5412.1  | 5294.9 | 4973.4 | 4693.5 | 4512.0 | 4432.6 | 4402.3 | 4375.8 | 4356.9 | 4353.1 |
| 15°   | 5695.8  | 5642.8  | 5306.2 | 4837.2 | 4523.3 | 4372.0 | 4315.3 | 4304.0 | 4273.7 | 4273.7 | 4269.9 |
| 17.5° | 5975.6  | 5839.5  | 5298.6 | 4693.5 | 4360.7 | 4277.5 | 4243.5 | 4235.9 | 4228.3 | 4224.5 | 4235.9 |
| 20°   | 6255.5  | 6013.5  | 5238.1 | 4515.8 | 4247.2 | 4198.1 | 4190.5 | 4194.3 | 4186.7 | 4198.1 | 4190.5 |
| 22.5° | 6501.3  | 6126.9  | 5124.7 | 4326.7 | 4167.8 | 4164.0 | 4145.1 | 4152.7 | 4179.2 | 4182.9 | 4194.3 |
| 25°   | 6690.4  | 6168.5  | 4958.3 | 4152.7 | 4111.1 | 4103.5 | 4126.2 | 4156.5 | 4179.2 | 4182.9 | 4201.9 |
| 27.5° | 6845.5  | 6145.8  | 4750.2 | 4016.5 | 4012.8 | 4054.4 | 4122.4 | 4133.8 | 4137.6 | 4137.6 | 4122.4 |
| 30°   | 6962.7  | 6096.7  | 4485.5 | 3865.3 | 3884.2 | 3986.3 | 4050.6 | 4050.6 | 4020.3 | 4012.8 | 4035.4 |
| 32.5° | 6989.2  | 6032.4  | 4198.1 | 3710.2 | 3740.4 | 3861.5 | 3940.9 | 3914.4 | 3880.4 | 3880.4 | 3895.5 |
| 35°   | 7011.9  | 5945.4  | 3967.4 | 3498.4 | 3543.8 | 3687.5 | 3763.1 | 3710.2 | 3672.4 | 3661.0 | 3657.2 |
| 37.5° | 7004.3  | 5911.3  | 3759.4 | 3229.9 | 3290.4 | 3430.3 | 3479.5 | 3430.3 | 3373.6 | 3347.1 | 3381.1 |
| 40°   | 7011.9  | 5888.6  | 3498.4 | 2934.9 | 2995.4 | 3078.6 | 3142.9 | 3105.1 | 3052.1 | 2984.0 | 3018.1 |
| 42.5° | 7057.3  | 5918.9  | 3211.0 | 2647.4 | 2647.4 | 2692.8 | 2802.5 | 2776.0 | 2647.4 | 2621.0 | 2651.2 |
| 45°   | 7299.3  | 6081.5  | 2923.5 | 2360.0 | 2318.4 | 2348.7 | 2462.1 | 2348.7 | 2269.2 | 2269.2 | 2295.7 |
| 47.5° | 7885.6  | 6384.1  | 2670.1 | 2106.6 | 2008.3 | 2068.8 | 2099.0 | 1993.1 | 1932.6 | 1917.5 | 1944.0 |
| 50°   | 9080.7  | 6989.2  | 2518.8 | 1898.6 | 1777.6 | 1822.9 | 1804.0 | 1800.3 | 1739.7 | 1747.3 | 1762.4 |
| 52.5° | 10896.1 | 8169.2  | 2473.5 | 1796.5 | 1645.2 | 1656.5 | 1637.6 | 1645.2 | 1633.8 | 1671.7 | 1683.0 |
| 55°   | 12874.1 | 9413.5  | 2530.2 | 1811.6 | 1554.4 | 1475.0 | 1482.6 | 1520.4 | 1565.8 | 1626.3 | 1637.6 |
| 57.5° | 14352.9 | 10037.5 | 2677.7 | 1913.7 | 1441.0 | 1319.9 | 1338.8 | 1410.7 | 1497.7 | 1546.9 | 1573.3 |
| 60°   | 15453.4 | 9961.9  | 2893.3 | 1940.2 | 1304.8 | 1180.0 | 1214.0 | 1319.9 | 1395.6 | 1437.2 | 1463.7 |
| 62.5° | 15812.7 | 9489.2  | 2946.2 | 1747.3 | 1127.0 | 1047.6 | 1130.8 | 1240.5 | 1274.5 | 1319.9 | 1338.8 |
| 65°   | 15517.7 | 8819.7  | 2560.4 | 1418.3 | 990.9  | 949.3  | 1070.3 | 1153.5 | 1198.9 | 1221.6 | 1225.4 |
| 66°   | 15169.8 | 8418.8  | 2352.4 | 1289.7 | 941.7  | 919.0  | 1047.6 | 1115.7 | 1161.1 | 1157.3 | 1161.1 |
| 67.5° | 14405.8 | 7579.2  | 2015.8 | 1108.1 | 869.9  | 873.7  | 1009.8 | 1055.2 | 1070.3 | 1059.0 | 1059.0 |
| 70°   | 11807.5 | 5336.5  | 1444.7 | 839.6  | 764.0  | 816.9  | 907.7  | 919.0  | 953.1  | 937.9  | 937.9  |
| 72.5° | 7280.4  | 2621.0  | 968.2  | 642.9  | 680.8  | 764.0  | 760.2  | 798.0  | 877.4  | 900.1  | 915.3  |
| 75°   | 3577.8  | 1062.8  | 639.2  | 544.6  | 608.9  | 639.2  | 631.6  | 726.2  | 839.6  | 937.9  | 972.0  |
| 77.5° | 1357.8  | 529.5   | 446.3  | 476.5  | 491.7  | 480.3  | 503.0  | 658.1  | 839.6  | 1017.4 | 1051.4 |
| 80°   | 419.8   | 366.9   | 351.7  | 393.3  | 370.6  | 351.7  | 378.2  | 544.6  | 711.0  | 771.5  | 771.5  |
| 82.5° | 253.4   | 287.4   | 272.3  | 268.5  | 249.6  | 253.4  | 272.3  | 389.6  | 548.4  | 574.9  | 574.9  |
| 85°   | 177.8   | 189.1   | 155.1  | 147.5  | 143.7  | 139.9  | 139.9  | 226.9  | 325.3  | 321.5  | 332.8  |
| 87.5° | 68.1    | 75.6    | 56.7   | 56.7   | 52.9   | 37.8   | 30.3   | 37.8   | 37.8   | 26.5   | 18.9   |
| 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)