

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: P1211093

Luminaire Tested: **ARCH4-170-722-U-T2RE**

Issue Date: 11/5/2025

### Test Information

Test Method: LM-79-08  
Report Number: P1211093  
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: ARCH4-170-722-U-T2RE  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2200K, 1380mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II  
ROADWAY ILLUMINANCE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 23124 lumens  
Efficiency: N/A  
Efficacy: 136.2 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 169.8  
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

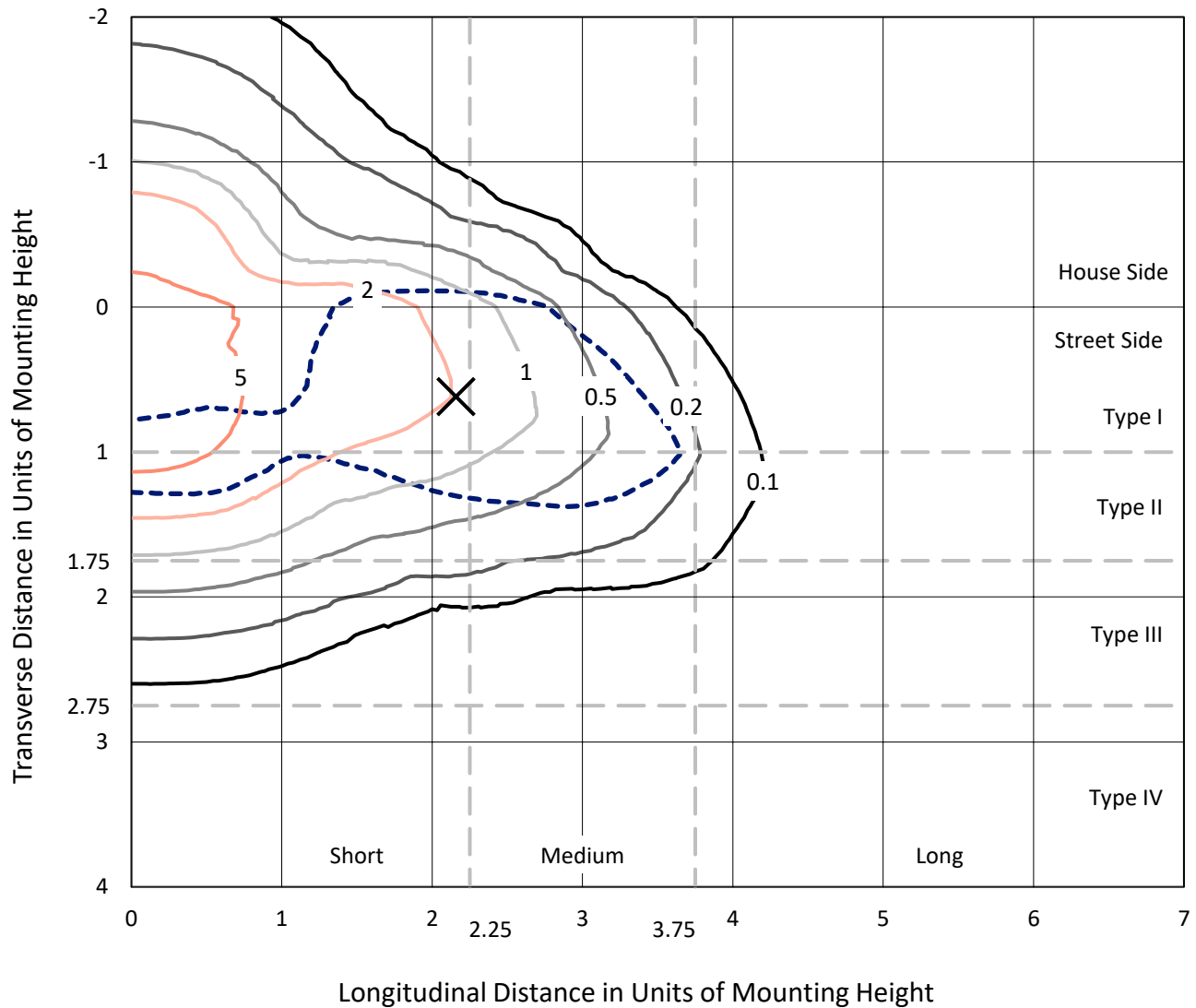


REPORT NUMBER: P1211093

CATALOG NUMBER: ARCH4-170-722-U-T2RE

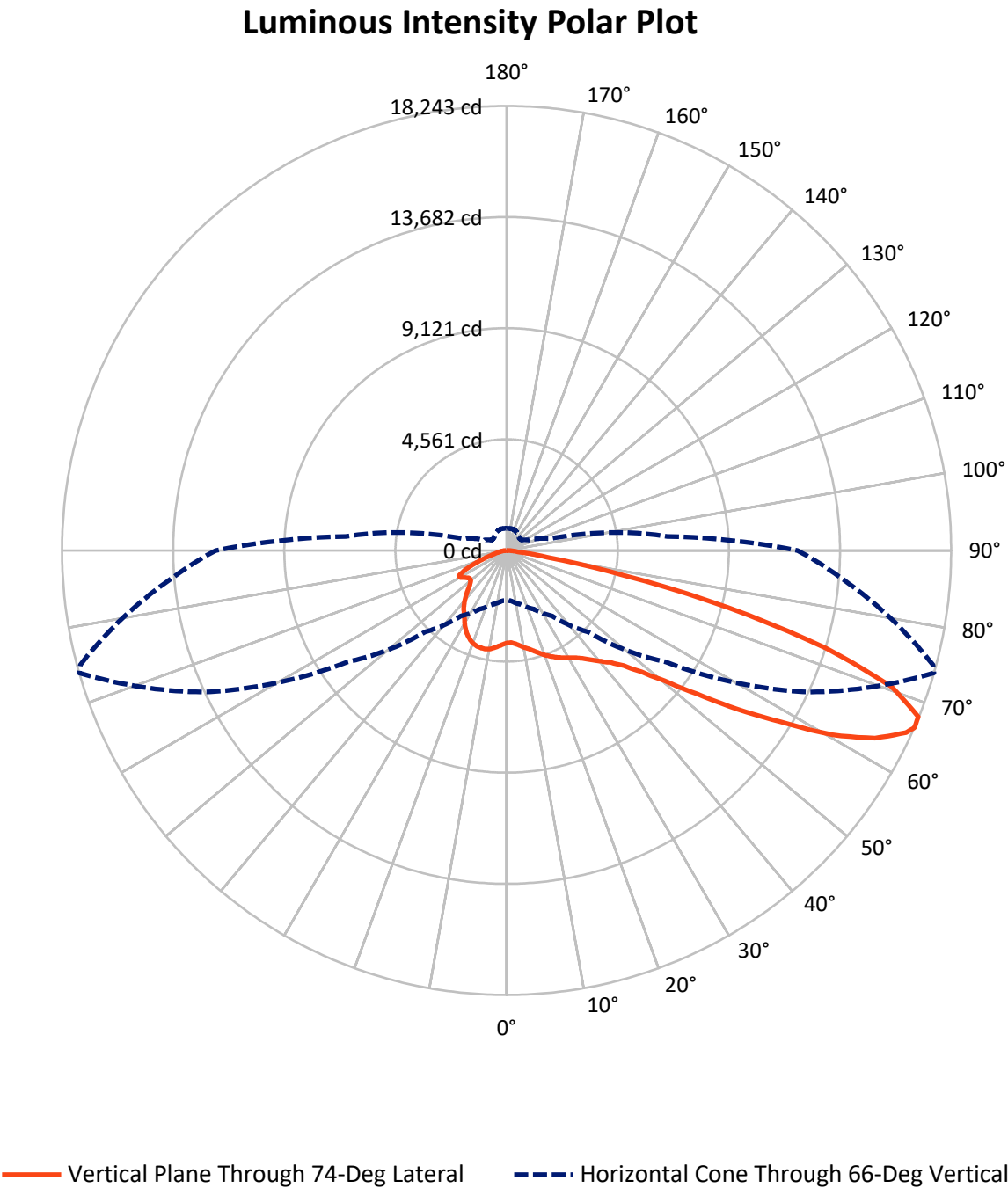
## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc  
Type II - Short - N/A

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5631.3   | 0.0    | 5631.3  |
|                    | % Fixture | 24.4     | 0.0    | 24.4    |
| <b>Street Side</b> | Lumens    | 17492.7  | 0.0    | 17492.7 |
|                    | % Fixture | 75.6     | 0.0    | 75.6    |
| <b>Total</b>       | Lumens    | 23124.0  | 0.0    | 23124.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 361.6   | 1.6       |
| 10°-20°   | 1112.0  | 4.8       |
| 20°-30°   | 2086.7  | 9.0       |
| 30°-40°   | 3209.9  | 13.9      |
| 40°-50°   | 4317.5  | 18.7      |
| 50°-60°   | 5106.0  | 22.1      |
| 60°-70°   | 4723.3  | 20.4      |
| 70°-80°   | 1987.1  | 8.6       |
| 80°-90°   | 219.9   | 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°    | 23124.0 | 100.0     |
| 0°-180°   | 23124.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P1211093

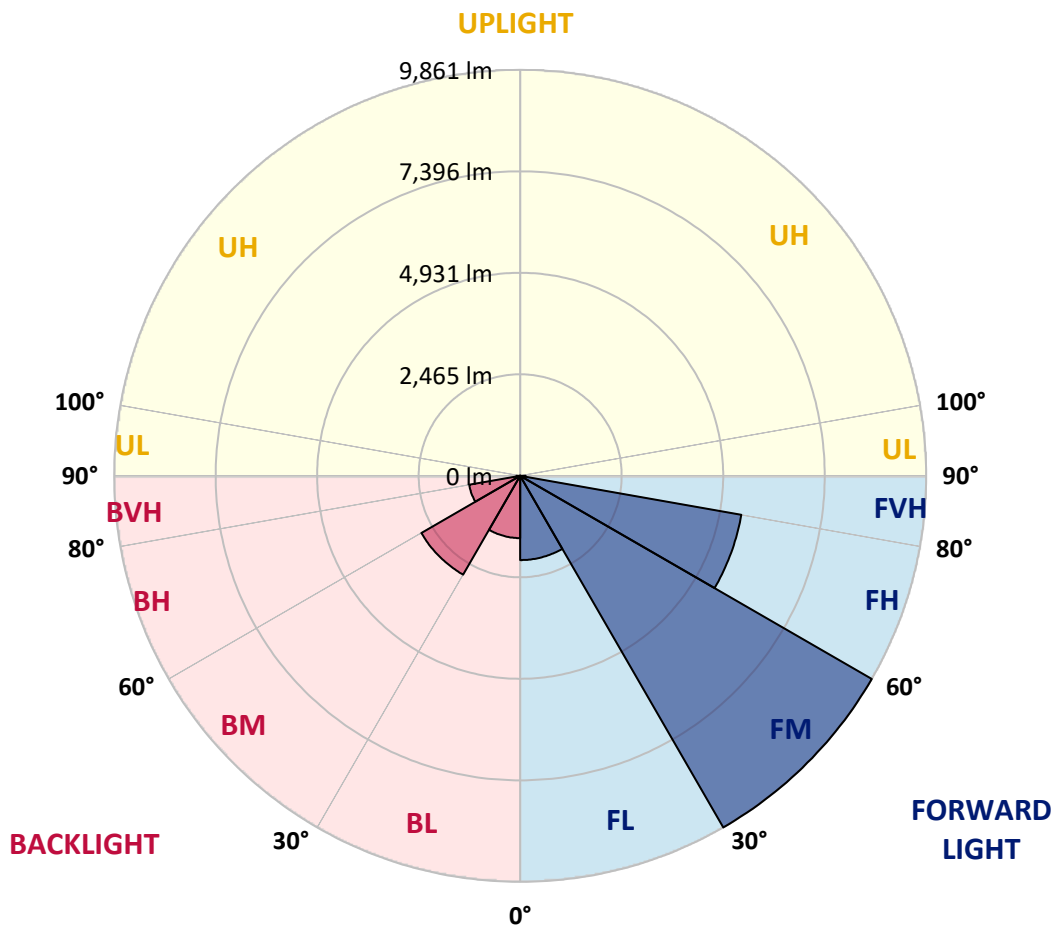
CATALOG NUMBER: ARCH4-170-722-U-T2RE

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2046.8 | 8.9       |                         |      |         |
| FM   | (30°-60°)   | 9861.1 | 42.6      |                         |      |         |
| FH   | (60°-80°)   | 5453.3 | 23.6      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 131.6  | 0.6       |                         |      | G2/225  |
| BL   | (0°-30°)    | 1513.6 | 6.5       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2772.3 | 12.0      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1257.1 | 5.4       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 88.3   | 0.4       |                         |      | G1/100  |
| 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: P1211093

CATALOG NUMBER: ARCH4-170-722-U-T2RE

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°    | 55°     | 65°     | 74°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|--------|---------|---------|---------|---------|---------|
| 0°    | 3790.8  | 3790.8  | 3790.8  | 3790.8  | 3790.8  | 3790.8 | 3790.8  | 3790.8  | 3790.8  | 3790.8  | 3790.8  |
| 2.5°  | 3778.9  | 3772.9  | 3784.8  | 3802.7  | 3811.6  | 3796.7 | 3790.8  | 3787.8  | 3787.8  | 3778.9  | 3793.8  |
| 5°    | 3600.4  | 3597.4  | 3624.2  | 3656.9  | 3719.4  | 3764.0 | 3823.5  | 3859.2  | 3847.3  | 3829.5  | 3841.4  |
| 7.5°  | 3368.3  | 3362.3  | 3395.1  | 3457.5  | 3543.8  | 3642.0 | 3787.8  | 3900.9  | 3945.5  | 3939.6  | 3936.6  |
| 10°   | 3457.5  | 3451.6  | 3448.6  | 3430.8  | 3460.5  | 3555.7 | 3707.5  | 3906.8  | 4058.6  | 4061.6  | 4064.5  |
| 12.5° | 3767.0  | 3781.9  | 3767.0  | 3710.5  | 3645.0  | 3609.3 | 3698.6  | 3921.7  | 4153.8  | 4171.7  | 4246.0  |
| 15°   | 4189.5  | 4174.6  | 4144.9  | 4079.4  | 3978.2  | 3871.1 | 3805.7  | 3990.2  | 4290.7  | 4305.6  | 4469.2  |
| 17.5° | 4561.4  | 4573.4  | 4555.5  | 4493.0  | 4374.0  | 4234.1 | 4034.8  | 4109.2  | 4436.5  | 4478.1  | 4707.2  |
| 20°   | 4966.1  | 5013.7  | 4989.9  | 4912.6  | 4814.4  | 4606.1 | 4356.1  | 4281.8  | 4597.2  | 4626.9  | 4954.2  |
| 22.5° | 5433.3  | 5483.9  | 5439.2  | 5364.8  | 5284.5  | 5028.6 | 4707.2  | 4493.0  | 4731.1  | 4793.5  | 5192.3  |
| 25°   | 5992.7  | 6040.3  | 5998.6  | 5882.6  | 5781.4  | 5469.0 | 5085.1  | 4731.1  | 4862.0  | 4930.4  | 5385.7  |
| 27.5° | 6436.0  | 6471.7  | 6510.4  | 6442.0  | 6287.2  | 5962.9 | 5477.9  | 4978.0  | 4992.9  | 5064.3  | 5564.2  |
| 30°   | 6831.8  | 6921.0  | 6953.8  | 6962.7  | 6831.8  | 6468.7 | 5879.6  | 5233.9  | 5106.0  | 5180.4  | 5742.7  |
| 32.5° | 7373.3  | 7507.2  | 7453.6  | 7507.2  | 7429.8  | 6944.8 | 6296.2  | 5498.7  | 5251.8  | 5320.2  | 5912.3  |
| 35°   | 8164.8  | 8271.9  | 8132.1  | 8090.4  | 7965.4  | 7426.9 | 6697.9  | 5772.5  | 5445.2  | 5519.6  | 6073.0  |
| 37.5° | 9015.8  | 9137.8  | 8935.4  | 8768.8  | 8530.8  | 7902.9 | 7043.0  | 6132.5  | 5713.0  | 5772.5  | 6221.8  |
| 40°   | 9759.7  | 9860.8  | 9685.3  | 9465.1  | 9066.4  | 8322.5 | 7340.6  | 6385.4  | 5980.8  | 6055.2  | 6394.4  |
| 42.5° | 10447.0 | 10512.5 | 10316.1 | 10104.8 | 9572.2  | 8700.4 | 7661.9  | 6653.2  | 6293.2  | 6364.6  | 6534.2  |
| 45°   | 11143.3 | 11193.8 | 10920.1 | 10619.6 | 9994.7  | 9045.5 | 8016.0  | 7028.1  | 6751.4  | 6846.6  | 6760.3  |
| 47.5° | 11268.2 | 11283.1 | 11235.5 | 11033.2 | 10328.0 | 9375.8 | 8453.4  | 7531.0  | 7450.7  | 7554.8  | 7150.1  |
| 50°   | 10402.4 | 10536.3 | 10830.8 | 11030.2 | 10461.9 | 9652.5 | 8890.8  | 8251.1  | 8414.7  | 8548.6  | 7959.5  |
| 52.5° | 8721.2  | 8849.1  | 9530.5  | 10286.3 | 10140.5 | 9715.0 | 9360.9  | 9164.6  | 9774.5  | 9935.2  | 9060.4  |
| 55°   | 6947.8  | 7060.9  | 7780.9  | 8870.0  | 9102.1  | 9429.4 | 9863.8  | 10331.0 | 11509.3 | 11616.4 | 10268.5 |
| 57.5° | 5721.9  | 5784.4  | 6299.1  | 7346.5  | 7718.5  | 8515.9 | 10134.6 | 11717.5 | 13273.7 | 13437.4 | 11318.8 |
| 60°   | 4692.4  | 4760.8  | 5144.6  | 6007.5  | 6501.5  | 7209.6 | 9920.3  | 13086.3 | 15380.4 | 15380.4 | 12666.7 |
| 62.5° | 3531.9  | 3591.4  | 3948.5  | 4623.9  | 5454.1  | 6102.8 | 9236.0  | 13993.8 | 16969.3 | 16897.9 | 13642.7 |
| 65°   | 2425.0  | 2472.6  | 2731.5  | 3180.8  | 3927.7  | 5201.2 | 8301.7  | 14005.7 | 18022.6 | 17927.4 | 14059.3 |
| 66°   | 2035.2  | 2076.9  | 2297.1  | 2660.1  | 3287.9  | 4719.1 | 7971.4  | 13752.8 | 18242.8 | 18108.9 | 13883.7 |
| 67.5° | 1606.8  | 1636.5  | 1782.3  | 1996.6  | 2410.2  | 3820.5 | 7450.7  | 13035.7 | 18222.0 | 18141.6 | 13437.4 |
| 70°   | 1148.5  | 1169.4  | 1276.5  | 1321.1  | 1425.3  | 2210.8 | 5918.3  | 11417.0 | 16761.0 | 16784.8 | 11681.8 |
| 72.5° | 889.7   | 922.4   | 987.9   | 996.8   | 973.0   | 1175.3 | 3591.4  | 9524.6  | 13711.1 | 13702.2 | 8670.6  |
| 75°   | 717.1   | 734.9   | 767.7   | 785.5   | 779.6   | 758.8  | 1520.5  | 7105.5  | 9438.3  | 9548.4  | 4856.0  |
| 77.5° | 565.3   | 562.4   | 592.1   | 615.9   | 633.8   | 595.1  | 696.3   | 4165.7  | 4948.3  | 4808.4  | 1824.0  |
| 80°   | 416.6   | 416.6   | 458.2   | 467.2   | 493.9   | 499.9  | 464.2   | 1606.8  | 1699.0  | 1544.3  | 473.1   |
| 82.5° | 273.7   | 273.7   | 318.4   | 324.3   | 351.1   | 389.8  | 336.2   | 482.0   | 470.1   | 446.3   | 214.2   |
| 85°   | 148.8   | 142.8   | 157.7   | 178.5   | 193.4   | 229.1  | 202.3   | 241.0   | 247.0   | 244.0   | 142.8   |
| 87.5° | 29.8    | 26.8    | 41.7    | 47.6    | 53.6    | 71.4   | 65.5    | 98.2    | 136.9   | 133.9   | 62.5    |
| 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: P1211093

CATALOG NUMBER: ARCH4-170-722-U-T2RE

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3790.8  | 3790.8 | 3790.8 | 3790.8 | 3790.8 | 3790.8 | 3790.8 | 3790.8 | 3790.8 | 3790.8 | 3790.8 |
| 2.5°  | 3814.6  | 3811.6 | 3844.4 | 3883.0 | 3927.7 | 3954.4 | 3966.3 | 3987.2 | 3972.3 | 3978.2 | 3996.1 |
| 5°    | 3871.1  | 3880.1 | 3927.7 | 3978.2 | 3999.1 | 3984.2 | 3951.5 | 3939.6 | 3912.8 | 3906.8 | 3900.9 |
| 7.5°  | 3954.4  | 3969.3 | 4016.9 | 4028.8 | 3966.3 | 3862.2 | 3787.8 | 3746.2 | 3701.5 | 3689.6 | 3683.7 |
| 10°   | 4091.3  | 4100.2 | 4112.1 | 3990.2 | 3835.4 | 3695.6 | 3603.3 | 3564.7 | 3534.9 | 3511.1 | 3517.0 |
| 12.5° | 4263.9  | 4257.9 | 4165.7 | 3912.8 | 3692.6 | 3549.8 | 3487.3 | 3463.5 | 3442.7 | 3427.8 | 3424.8 |
| 15°   | 4481.1  | 4439.5 | 4174.6 | 3805.7 | 3558.7 | 3439.7 | 3395.1 | 3386.1 | 3362.3 | 3362.3 | 3359.3 |
| 17.5° | 4701.3  | 4594.2 | 4168.7 | 3692.6 | 3430.8 | 3365.3 | 3338.5 | 3332.6 | 3326.6 | 3323.6 | 3332.6 |
| 20°   | 4921.5  | 4731.1 | 4121.1 | 3552.8 | 3341.5 | 3302.8 | 3296.9 | 3299.8 | 3293.9 | 3302.8 | 3296.9 |
| 22.5° | 5114.9  | 4820.3 | 4031.8 | 3404.0 | 3279.0 | 3276.0 | 3261.2 | 3267.1 | 3287.9 | 3290.9 | 3299.8 |
| 25°   | 5263.7  | 4853.0 | 3900.9 | 3267.1 | 3234.4 | 3228.4 | 3246.3 | 3270.1 | 3287.9 | 3290.9 | 3305.8 |
| 27.5° | 5385.7  | 4835.2 | 3737.2 | 3160.0 | 3157.0 | 3189.7 | 3243.3 | 3252.2 | 3255.2 | 3255.2 | 3243.3 |
| 30°   | 5477.9  | 4796.5 | 3528.9 | 3041.0 | 3055.8 | 3136.2 | 3186.8 | 3186.8 | 3163.0 | 3157.0 | 3174.9 |
| 32.5° | 5498.7  | 4745.9 | 3302.8 | 2919.0 | 2942.8 | 3038.0 | 3100.5 | 3079.6 | 3052.9 | 3052.9 | 3064.8 |
| 35°   | 5516.6  | 4677.5 | 3121.3 | 2752.3 | 2788.0 | 2901.1 | 2960.6 | 2919.0 | 2889.2 | 2880.3 | 2877.3 |
| 37.5° | 5510.6  | 4650.7 | 2957.7 | 2541.1 | 2588.7 | 2698.8 | 2737.5 | 2698.8 | 2654.1 | 2633.3 | 2660.1 |
| 40°   | 5516.6  | 4632.9 | 2752.3 | 2309.0 | 2356.6 | 2422.1 | 2472.6 | 2442.9 | 2401.2 | 2347.7 | 2374.5 |
| 42.5° | 5552.3  | 4656.7 | 2526.2 | 2082.9 | 2082.9 | 2118.6 | 2204.8 | 2184.0 | 2082.9 | 2062.0 | 2085.8 |
| 45°   | 5742.7  | 4784.6 | 2300.1 | 1856.7 | 1824.0 | 1847.8 | 1937.1 | 1847.8 | 1785.3 | 1785.3 | 1806.1 |
| 47.5° | 6203.9  | 5022.7 | 2100.7 | 1657.4 | 1580.0 | 1627.6 | 1651.4 | 1568.1 | 1520.5 | 1508.6 | 1529.4 |
| 50°   | 7144.2  | 5498.7 | 1981.7 | 1493.7 | 1398.5 | 1434.2 | 1419.3 | 1416.3 | 1368.7 | 1374.7 | 1386.6 |
| 52.5° | 8572.4  | 6427.1 | 1946.0 | 1413.4 | 1294.3 | 1303.3 | 1288.4 | 1294.3 | 1285.4 | 1315.2 | 1324.1 |
| 55°   | 10128.6 | 7406.0 | 1990.6 | 1425.3 | 1222.9 | 1160.4 | 1166.4 | 1196.2 | 1231.9 | 1279.5 | 1288.4 |
| 57.5° | 11292.0 | 7897.0 | 2106.7 | 1505.6 | 1133.7 | 1038.5 | 1053.3 | 1109.9 | 1178.3 | 1217.0 | 1237.8 |
| 60°   | 12157.9 | 7837.5 | 2276.3 | 1526.4 | 1026.5 | 928.4  | 955.1  | 1038.5 | 1098.0 | 1130.7 | 1151.5 |
| 62.5° | 12440.6 | 7465.5 | 2317.9 | 1374.7 | 886.7  | 824.2  | 889.7  | 976.0  | 1002.7 | 1038.5 | 1053.3 |
| 65°   | 12208.5 | 6938.9 | 2014.4 | 1115.8 | 779.6  | 746.9  | 842.1  | 907.5  | 943.2  | 961.1  | 964.1  |
| 66°   | 11934.7 | 6623.5 | 1850.8 | 1014.6 | 740.9  | 723.0  | 824.2  | 877.8  | 913.5  | 910.5  | 913.5  |
| 67.5° | 11333.7 | 5962.9 | 1585.9 | 871.8  | 684.4  | 687.3  | 794.5  | 830.2  | 842.1  | 833.1  | 833.1  |
| 70°   | 9289.5  | 4198.4 | 1136.6 | 660.6  | 601.1  | 642.7  | 714.1  | 723.0  | 749.8  | 737.9  | 737.9  |
| 72.5° | 5727.8  | 2062.0 | 761.7  | 505.8  | 535.6  | 601.1  | 598.1  | 627.8  | 690.3  | 708.2  | 720.1  |
| 75°   | 2814.8  | 836.1  | 502.9  | 428.5  | 479.1  | 502.9  | 496.9  | 571.3  | 660.6  | 737.9  | 764.7  |
| 77.5° | 1068.2  | 416.6  | 351.1  | 374.9  | 386.8  | 377.9  | 395.7  | 517.7  | 660.6  | 800.4  | 827.2  |
| 80°   | 330.3   | 288.6  | 276.7  | 309.5  | 291.6  | 276.7  | 297.6  | 428.5  | 559.4  | 607.0  | 607.0  |
| 82.5° | 199.4   | 226.1  | 214.2  | 211.3  | 196.4  | 199.4  | 214.2  | 306.5  | 431.4  | 452.3  | 452.3  |
| 85°   | 139.8   | 148.8  | 122.0  | 116.0  | 113.1  | 110.1  | 110.1  | 178.5  | 255.9  | 252.9  | 261.8  |
| 87.5° | 53.6    | 59.5   | 44.6   | 44.6   | 41.7   | 29.8   | 23.8   | 29.8   | 29.8   | 20.8   | 14.9   |
| 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)