

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: P836039

Luminaire Tested: **ARCH3-130-730-U-T2U**

Issue Date: 5/16/2024

### Test Information

Test Method: LM-79-08  
Report Number: P836039  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH3-130-730-U-T2U  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 1035mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 19507 lumens  
Efficiency: N/A  
Efficacy: 147.1 lumens/watt  
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

Input Watts (W): 132.6  
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

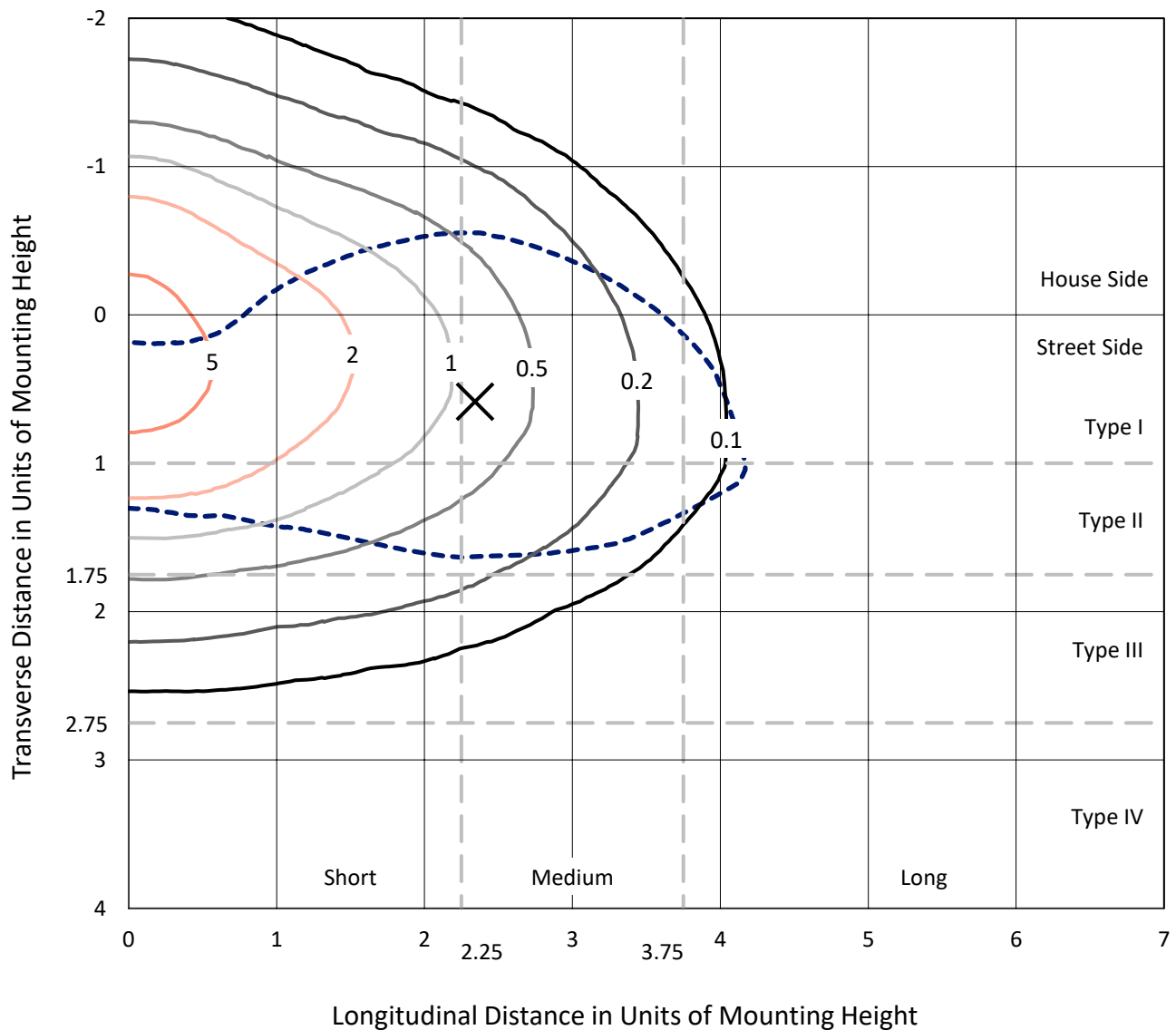


REPORT NUMBER: P836039

CATALOG NUMBER: ARCH3-130-730-U-T2U

## Iso-Footcandle Lines of Horizontal Illumination

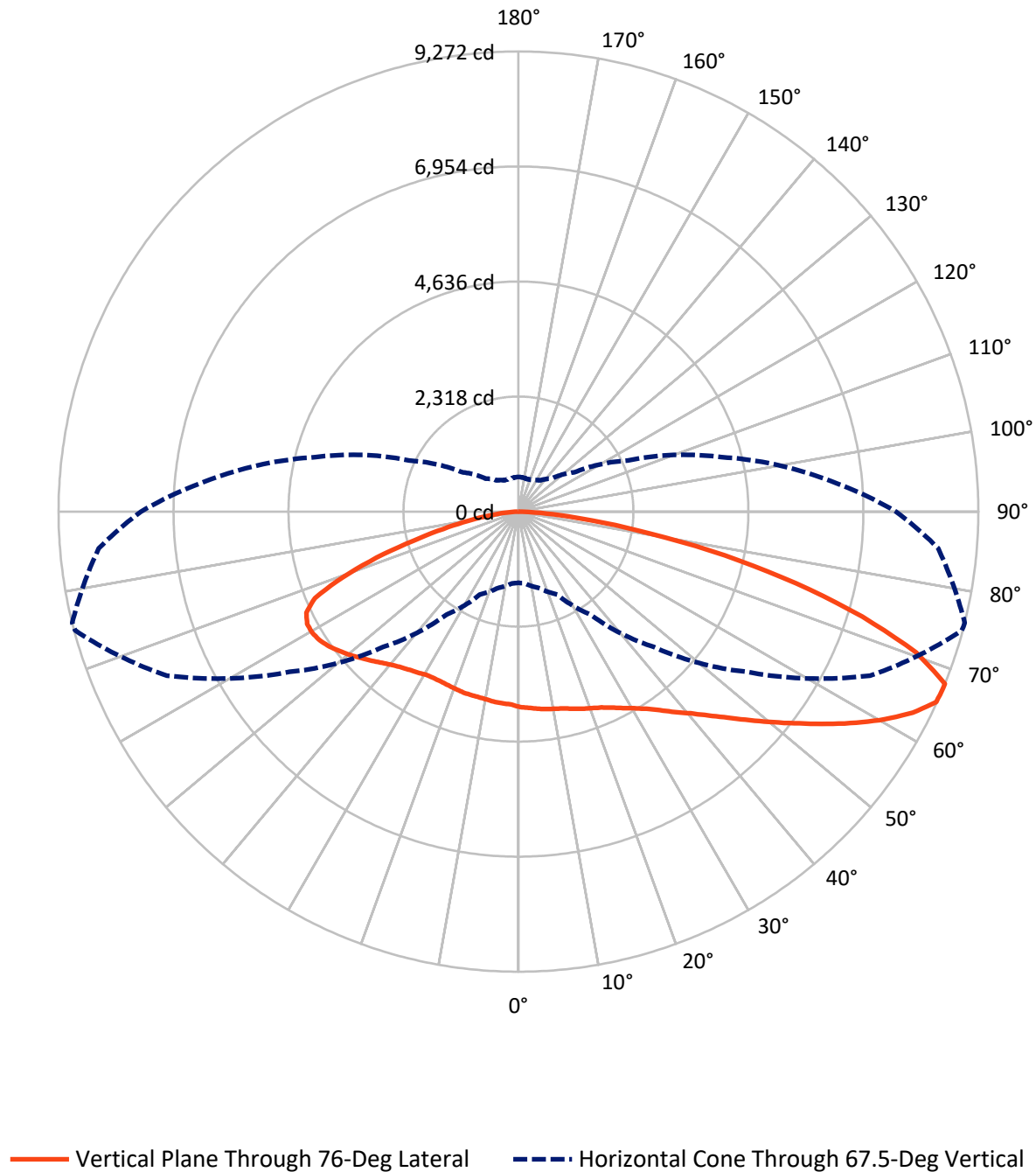
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc  
Type II - Medium - N/A

REPORT NUMBER: P836039  
CATALOG NUMBER: ARCH3-130-730-U-T2U

## Luminous Intensity Polar Plot



REPORT NUMBER: P836039

CATALOG NUMBER: ARCH3-130-730-U-T2U

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6591.5   | 0.0    | 6591.5  |
|                    | % Fixture | 33.8     | 0.0    | 33.8    |
| <b>Street Side</b> | Lumens    | 12915.5  | 0.0    | 12915.5 |
|                    | % Fixture | 66.2     | 0.0    | 66.2    |
| <b>Total</b>       | Lumens    | 19507.0  | 0.0    | 19507.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 380.0   | 1.9       |
| 10°-20°   | 1161.6  | 6.0       |
| 20°-30°   | 1973.6  | 10.1      |
| 30°-40°   | 2808.2  | 14.4      |
| 40°-50°   | 3546.6  | 18.2      |
| 50°-60°   | 3839.9  | 19.7      |
| 60°-70°   | 3571.5  | 18.3      |
| 70°-80°   | 1918.2  | 9.8       |
| 80°-90°   | 307.4   | 1.6       |
| 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°    | 19507.0 | 100.0     |
| 0°-180°   | 19507.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P836039

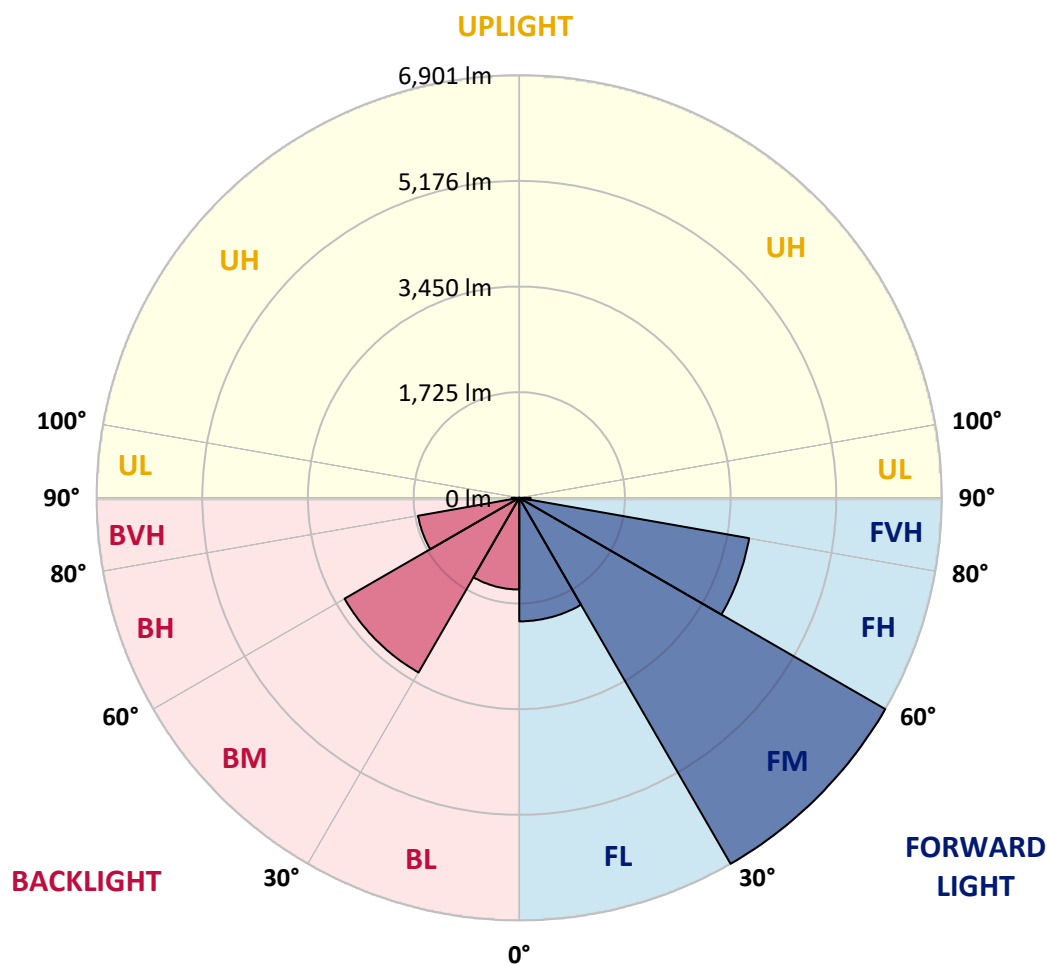
CATALOG NUMBER: ARCH3-130-730-U-T2U

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2017.2 | 10.3      |                         |      |         |
| FM   | (30°-60°)   | 6900.8 | 35.4      |                         |      |         |
| FH   | (60°-80°)   | 3811.5 | 19.5      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 185.9  | 1.0       |                         |      | G2/225  |
| BL   | (0°-30°)    | 1497.9 | 7.7       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 3293.9 | 16.9      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1678.3 | 8.6       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 121.4  | 0.6       |                         |      | 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 Medium



REPORT NUMBER: P836039

CATALOG NUMBER: ARCH3-130-730-U-T2U

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 76°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3940.4 | 3940.4 | 3940.4 | 3940.4 | 3940.4 | 3940.4 | 3940.4 | 3940.4 | 3940.4 | 3940.4 | 3940.4 |
| 2.5°  | 4059.9 | 4052.6 | 4023.7 | 4027.3 | 4027.3 | 4023.7 | 3980.2 | 3962.1 | 3962.1 | 3958.5 | 3918.6 |
| 5°    | 4204.8 | 4193.9 | 4161.3 | 4154.0 | 4139.6 | 4121.5 | 4052.6 | 4012.8 | 3994.7 | 3991.1 | 3936.7 |
| 7.5°  | 4375.0 | 4360.5 | 4320.6 | 4298.9 | 4262.7 | 4215.6 | 4128.7 | 4067.1 | 4023.7 | 4020.0 | 3944.0 |
| 10°   | 4545.2 | 4530.7 | 4483.6 | 4443.8 | 4393.1 | 4317.0 | 4204.8 | 4114.2 | 4045.4 | 4038.2 | 3947.6 |
| 12.5° | 4748.0 | 4733.5 | 4675.6 | 4624.9 | 4548.8 | 4447.4 | 4298.9 | 4175.8 | 4081.6 | 4070.8 | 3958.5 |
| 15°   | 4961.7 | 4940.0 | 4882.0 | 4824.1 | 4729.9 | 4599.5 | 4422.1 | 4259.1 | 4139.6 | 4121.5 | 3991.1 |
| 17.5° | 5139.1 | 5110.2 | 5063.1 | 5005.1 | 4900.1 | 4748.0 | 4545.2 | 4342.4 | 4193.9 | 4179.4 | 4023.7 |
| 20°   | 5291.3 | 5269.5 | 5218.8 | 5164.5 | 5052.2 | 4885.6 | 4661.1 | 4425.7 | 4244.6 | 4226.5 | 4049.0 |
| 22.5° | 5436.1 | 5407.1 | 5378.2 | 5338.3 | 5215.2 | 5030.5 | 4795.1 | 4527.1 | 4309.8 | 4288.1 | 4081.6 |
| 25°   | 5602.7 | 5570.1 | 5559.3 | 5537.5 | 5392.7 | 5204.3 | 4958.1 | 4653.8 | 4400.3 | 4375.0 | 4139.6 |
| 27.5° | 5809.1 | 5772.9 | 5751.2 | 5751.2 | 5577.4 | 5381.8 | 5131.9 | 4802.3 | 4505.4 | 4483.6 | 4212.0 |
| 30°   | 6026.4 | 5983.0 | 5950.4 | 5950.4 | 5754.8 | 5559.3 | 5302.1 | 4950.8 | 4624.9 | 4599.5 | 4306.2 |
| 32.5° | 6218.4 | 6174.9 | 6138.7 | 6135.1 | 5932.3 | 5736.7 | 5479.6 | 5113.8 | 4769.7 | 4737.1 | 4422.1 |
| 35°   | 6366.9 | 6327.0 | 6294.5 | 6301.7 | 6109.7 | 5917.8 | 5678.8 | 5331.1 | 4950.8 | 4914.6 | 4574.2 |
| 37.5° | 6457.4 | 6442.9 | 6424.8 | 6450.2 | 6272.7 | 6091.6 | 5885.2 | 5541.1 | 5157.3 | 5124.7 | 4762.5 |
| 40°   | 6504.5 | 6493.6 | 6566.1 | 6598.7 | 6410.3 | 6247.4 | 6091.6 | 5758.4 | 5381.8 | 5345.6 | 4979.8 |
| 42.5° | 6573.3 | 6663.9 | 6692.8 | 6685.6 | 6511.8 | 6366.9 | 6280.0 | 5993.9 | 5646.2 | 5613.6 | 5240.5 |
| 45°   | 6327.0 | 6305.3 | 6464.7 | 6551.6 | 6519.0 | 6442.9 | 6457.4 | 6276.3 | 5954.0 | 5921.4 | 5541.1 |
| 47.5° | 5997.5 | 5968.5 | 6059.0 | 6272.7 | 6399.5 | 6471.9 | 6616.8 | 6569.7 | 6308.9 | 6280.0 | 5892.4 |
| 50°   | 5302.1 | 5342.0 | 5678.8 | 5964.9 | 6214.8 | 6464.7 | 6750.8 | 6884.8 | 6700.1 | 6671.1 | 6269.1 |
| 52.5° | 4530.7 | 4570.5 | 4921.8 | 5581.0 | 5990.2 | 6410.3 | 6848.6 | 7199.9 | 7123.8 | 7091.2 | 6671.1 |
| 55°   | 3969.3 | 4056.3 | 4454.6 | 4932.7 | 5671.5 | 6240.1 | 6906.5 | 7522.2 | 7580.1 | 7551.2 | 7109.3 |
| 57.5° | 3411.6 | 3476.8 | 3777.4 | 4201.1 | 5236.9 | 5943.2 | 6902.9 | 7822.8 | 8058.2 | 8029.2 | 7554.8 |
| 60°   | 2756.1 | 2839.4 | 3078.4 | 3534.7 | 4657.5 | 5588.2 | 6801.5 | 8058.2 | 8518.2 | 8496.4 | 7985.8 |
| 62.5° | 2307.0 | 2332.4 | 2502.6 | 2897.3 | 3911.4 | 5139.1 | 6573.3 | 8185.0 | 8934.6 | 8920.2 | 8373.3 |
| 65°   | 1857.9 | 1861.5 | 2017.3 | 2346.8 | 3190.7 | 4581.4 | 6185.8 | 8137.9 | 9249.7 | 9257.0 | 8652.2 |
| 67.5° | 1434.2 | 1452.3 | 1593.5 | 1843.4 | 2535.2 | 3857.1 | 5631.7 | 7819.2 | 9253.4 | 9271.5 | 8492.8 |
| 70°   | 992.3  | 1006.8 | 1220.5 | 1463.2 | 1959.3 | 3074.8 | 4882.0 | 6975.3 | 8492.8 | 8507.3 | 7612.7 |
| 72.5° | 699.0  | 706.2  | 934.4  | 1169.8 | 1532.0 | 2317.9 | 3683.2 | 5769.3 | 7239.7 | 7250.6 | 6403.1 |
| 75°   | 521.5  | 528.8  | 659.1  | 887.3  | 1173.4 | 1604.4 | 2517.1 | 4418.4 | 5783.8 | 5783.8 | 5055.8 |
| 77.5° | 369.4  | 373.0  | 427.4  | 612.1  | 782.3  | 1082.9 | 1513.9 | 2893.7 | 4244.6 | 4251.8 | 3683.2 |
| 80°   | 249.9  | 253.5  | 278.9  | 412.9  | 488.9  | 586.7  | 822.1  | 1517.5 | 2676.4 | 2687.3 | 2339.6 |
| 82.5° | 130.4  | 137.6  | 155.7  | 210.1  | 246.3  | 325.9  | 423.7  | 771.4  | 1481.3 | 1510.2 | 1405.2 |
| 85°   | 50.7   | 50.7   | 57.9   | 68.8   | 90.5   | 126.8  | 195.6  | 293.4  | 670.0  | 691.7  | 619.3  |
| 87.5° | 18.1   | 18.1   | 21.7   | 21.7   | 25.4   | 29.0   | 32.6   | 43.5   | 76.1   | 76.1   | 72.4   |
| 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: P836039

CATALOG NUMBER: ARCH3-130-730-U-T2U

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3940.4 | 3940.4 | 3940.4 | 3940.4 | 3940.4 | 3940.4 | 3940.4 | 3940.4 | 3940.4 | 3940.4 | 3940.4 |
| 2.5°  | 3904.2 | 3904.2 | 3886.0 | 3893.3 | 3889.7 | 3882.4 | 3875.2 | 3886.0 | 3875.2 | 3849.8 | 3846.2 |
| 5°    | 3911.4 | 3904.2 | 3875.2 | 3871.6 | 3860.7 | 3846.2 | 3828.1 | 3835.3 | 3817.2 | 3795.5 | 3791.9 |
| 7.5°  | 3915.0 | 3900.5 | 3860.7 | 3846.2 | 3824.5 | 3795.5 | 3766.5 | 3766.5 | 3741.2 | 3719.4 | 3715.8 |
| 10°   | 3907.8 | 3889.7 | 3835.3 | 3806.4 | 3766.5 | 3723.1 | 3683.2 | 3672.4 | 3643.4 | 3618.0 | 3618.0 |
| 12.5° | 3911.4 | 3886.0 | 3817.2 | 3770.2 | 3715.8 | 3661.5 | 3610.8 | 3596.3 | 3571.0 | 3545.6 | 3542.0 |
| 15°   | 3933.1 | 3896.9 | 3810.0 | 3748.4 | 3668.7 | 3607.2 | 3552.9 | 3542.0 | 3520.3 | 3502.1 | 3502.1 |
| 17.5° | 3954.9 | 3907.8 | 3799.1 | 3712.2 | 3614.4 | 3545.6 | 3494.9 | 3494.9 | 3480.4 | 3469.6 | 3469.6 |
| 20°   | 3965.7 | 3911.4 | 3777.4 | 3661.5 | 3549.2 | 3476.8 | 3429.7 | 3437.0 | 3433.3 | 3429.7 | 3429.7 |
| 22.5° | 3991.1 | 3918.6 | 3759.3 | 3614.4 | 3480.4 | 3404.4 | 3360.9 | 3371.8 | 3368.1 | 3368.1 | 3371.8 |
| 25°   | 4030.9 | 3936.7 | 3744.8 | 3571.0 | 3415.2 | 3331.9 | 3284.8 | 3292.1 | 3292.1 | 3292.1 | 3292.1 |
| 27.5° | 4085.2 | 3973.0 | 3741.2 | 3531.1 | 3350.0 | 3255.9 | 3197.9 | 3197.9 | 3183.4 | 3187.1 | 3190.7 |
| 30°   | 4168.5 | 4041.8 | 3748.4 | 3494.9 | 3281.2 | 3161.7 | 3092.9 | 3082.0 | 3078.4 | 3085.7 | 3089.3 |
| 32.5° | 4269.9 | 4135.9 | 3791.9 | 3469.6 | 3208.8 | 3056.7 | 2969.8 | 2966.1 | 2955.3 | 2955.3 | 2955.3 |
| 35°   | 4396.7 | 4226.5 | 3831.7 | 3465.9 | 3136.4 | 2944.4 | 2850.2 | 2839.4 | 2814.0 | 2803.2 | 2803.2 |
| 37.5° | 4559.7 | 4367.7 | 3878.8 | 3440.6 | 3074.8 | 2835.8 | 2723.5 | 2687.3 | 2658.3 | 2654.7 | 2654.7 |
| 40°   | 4758.9 | 4527.1 | 3947.6 | 3411.6 | 3009.6 | 2723.5 | 2575.0 | 2513.4 | 2517.1 | 2531.5 | 2531.5 |
| 42.5° | 4994.3 | 4722.7 | 4034.5 | 3397.1 | 2915.4 | 2607.6 | 2401.2 | 2328.7 | 2354.1 | 2368.6 | 2372.2 |
| 45°   | 5269.5 | 4954.4 | 4132.3 | 3379.0 | 2828.5 | 2477.2 | 2216.5 | 2125.9 | 2136.8 | 2140.4 | 2144.0 |
| 47.5° | 5588.2 | 5211.6 | 4233.7 | 3364.5 | 2730.7 | 2314.2 | 2013.6 | 1894.1 | 1890.5 | 1868.8 | 1876.0 |
| 50°   | 5921.4 | 5483.2 | 4338.8 | 3339.2 | 2611.2 | 2122.3 | 1800.0 | 1658.7 | 1629.7 | 1597.2 | 1600.8 |
| 52.5° | 6276.3 | 5762.1 | 4436.5 | 3299.3 | 2462.7 | 1926.7 | 1597.2 | 1445.0 | 1387.1 | 1350.9 | 1358.1 |
| 55°   | 6667.5 | 6048.2 | 4530.7 | 3237.8 | 2307.0 | 1731.2 | 1416.1 | 1260.3 | 1187.9 | 1158.9 | 1162.6 |
| 57.5° | 7026.0 | 6323.4 | 4599.5 | 3161.7 | 2136.8 | 1553.7 | 1256.7 | 1104.6 | 1057.5 | 1053.9 | 1057.5 |
| 60°   | 7373.7 | 6555.2 | 4628.5 | 3056.7 | 1962.9 | 1390.7 | 1108.2 | 992.3  | 959.7  | 977.8  | 981.5  |
| 62.5° | 7667.1 | 6703.7 | 4614.0 | 2915.4 | 1785.5 | 1235.0 | 988.7  | 905.4  | 883.7  | 919.9  | 923.5  |
| 65°   | 7837.3 | 6750.8 | 4512.6 | 2712.6 | 1593.5 | 1082.9 | 876.4  | 785.9  | 775.0  | 796.8  | 807.6  |
| 67.5° | 7612.7 | 6457.4 | 4237.3 | 2433.8 | 1379.9 | 941.6  | 767.8  | 695.4  | 677.3  | 695.4  | 695.4  |
| 70°   | 6747.2 | 5595.5 | 3585.4 | 1991.9 | 1144.4 | 804.0  | 666.4  | 615.7  | 601.2  | 615.7  | 612.1  |
| 72.5° | 5620.8 | 4653.8 | 2824.9 | 1553.7 | 901.8  | 677.3  | 579.5  | 532.4  | 517.9  | 503.4  | 496.2  |
| 75°   | 4360.5 | 3534.7 | 2049.9 | 1140.8 | 680.9  | 543.2  | 485.3  | 441.8  | 405.6  | 420.1  | 412.9  |
| 77.5° | 3194.3 | 2480.8 | 1452.3 | 789.5  | 488.9  | 420.1  | 380.3  | 347.7  | 322.3  | 351.3  | 347.7  |
| 80°   | 2057.1 | 1604.4 | 970.6  | 528.8  | 336.8  | 293.4  | 278.9  | 260.8  | 286.1  | 373.0  | 380.3  |
| 82.5° | 1256.7 | 1017.7 | 579.5  | 344.1  | 220.9  | 195.6  | 181.1  | 181.1  | 293.4  | 322.3  | 325.9  |
| 85°   | 561.4  | 539.6  | 315.1  | 177.5  | 123.1  | 112.3  | 101.4  | 130.4  | 119.5  | 86.9   | 90.5   |
| 87.5° | 90.5   | 94.2   | 68.8   | 61.6   | 47.1   | 47.1   | 36.2   | 25.4   | 18.1   | 10.9   | 10.9   |
| 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)