

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: P836023

Luminaire Tested: **ARCH3-130-722-U-T3**

Issue Date: 5/16/2024

### Test Information

Test Method: LM-79-08  
Report Number: P836023  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH3-130-722-U-T3  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2200K, 1035mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 16964 lumens  
Efficiency: N/A  
Efficacy: 127.9 lumens/watt  
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')  
IES Classification: Type III - 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



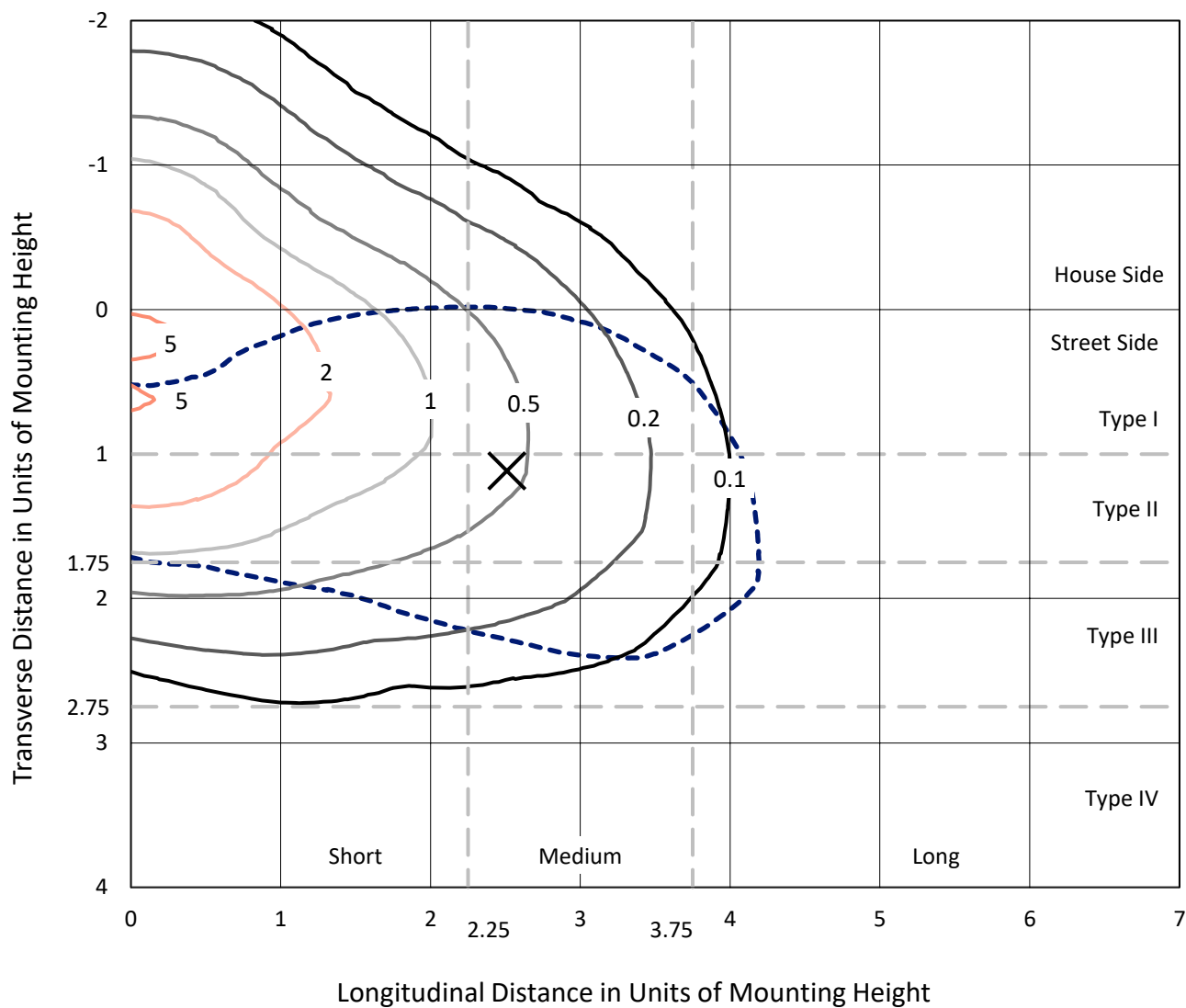
REPORT NUMBER: P836023

CATALOG NUMBER: ARCH3-130-722-U-T3

## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

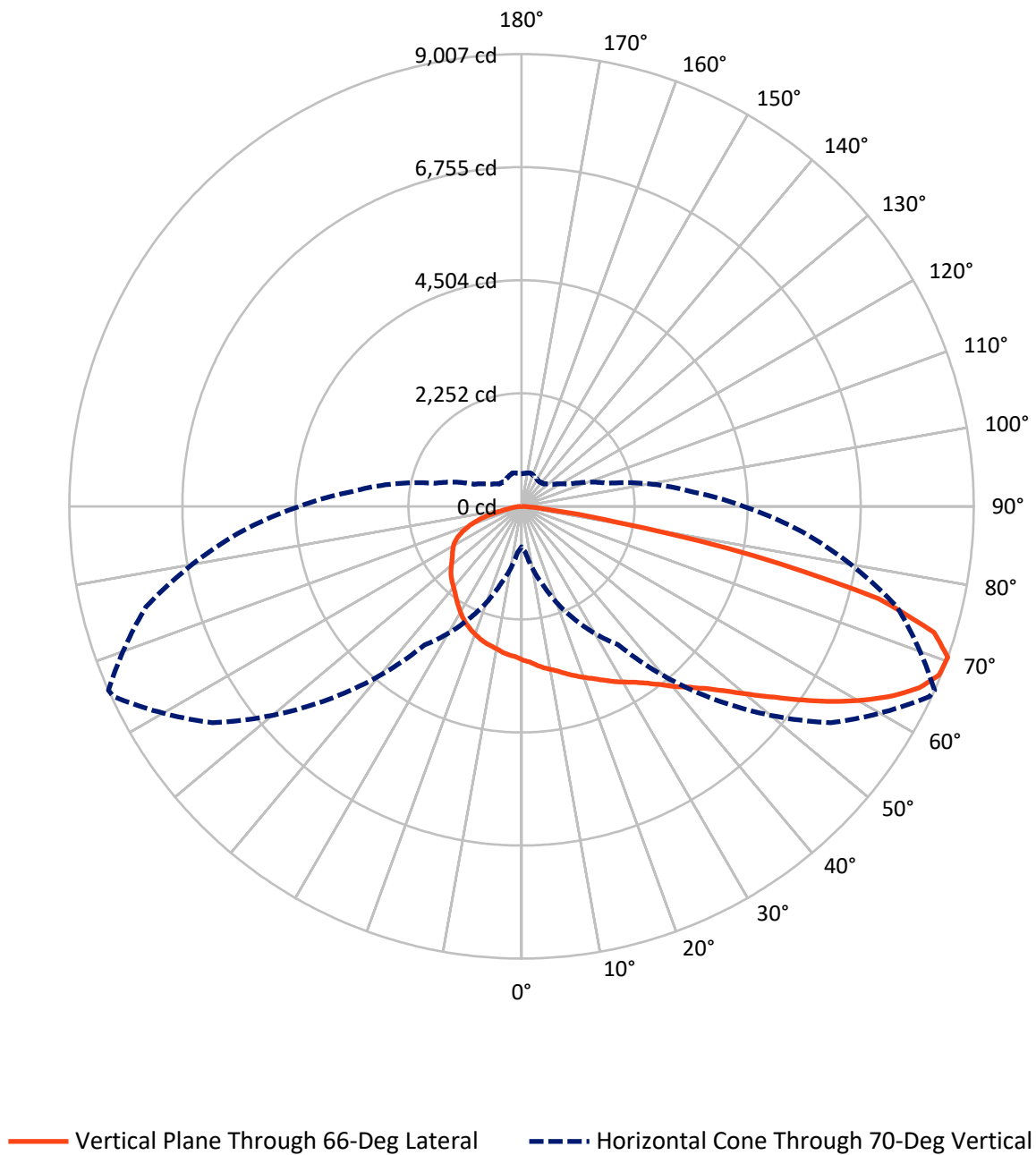


Based on 25 foot mounting height. Maximum calculated value = 5.3 fc  
Type III - Medium - N/A

REPORT NUMBER: P836023

CATALOG NUMBER: ARCH3-130-722-U-T3

## Luminous Intensity Polar Plot



REPORT NUMBER: P836023

CATALOG NUMBER: ARCH3-130-722-U-T3

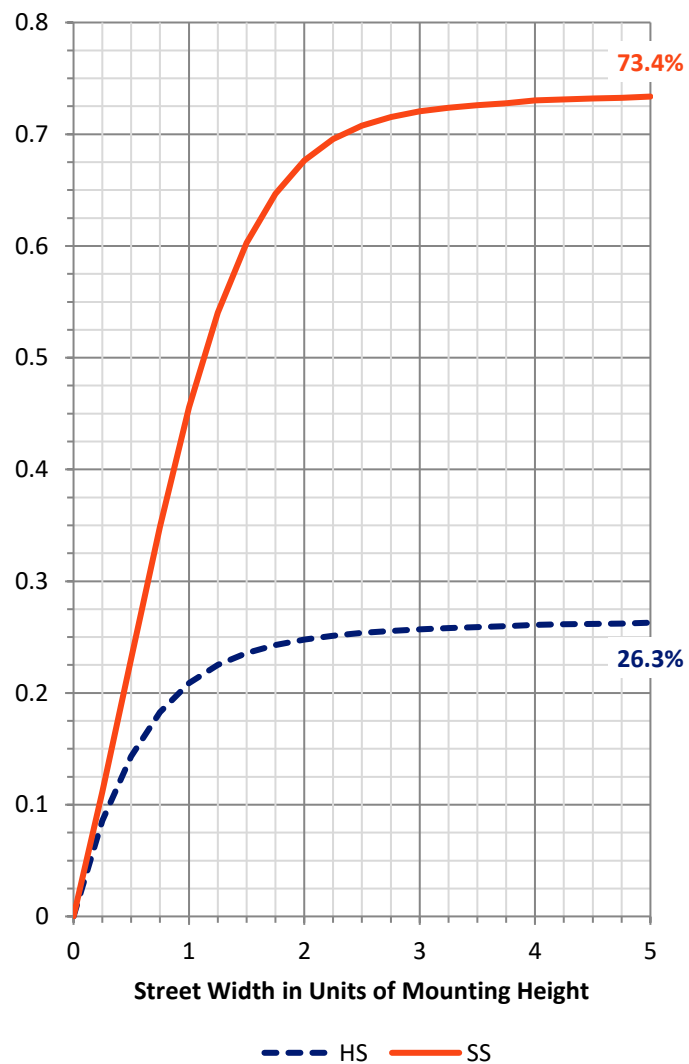
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4495.1   | 0.0    | 4495.1  |
|                    | % Fixture | 26.5     | 0.0    | 26.5    |
| <b>Street Side</b> | Lumens    | 12468.9  | 0.0    | 12468.9 |
|                    | % Fixture | 73.5     | 0.0    | 73.5    |
| <b>Total</b>       | Lumens    | 16964.0  | 0.0    | 16964.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 294.2   | 1.7       |
| 10°-20°   | 882.5   | 5.2       |
| 20°-30°   | 1479.3  | 8.7       |
| 30°-40°   | 2215.0  | 13.1      |
| 40°-50°   | 2961.4  | 17.5      |
| 50°-60°   | 3457.6  | 20.4      |
| 60°-70°   | 3438.0  | 20.3      |
| 70°-80°   | 2035.4  | 12.0      |
| 80°-90°   | 200.6   | 1.2       |
| 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°    | 16964.0 | 100.0     |
| 0°-180°   | 16964.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P836023

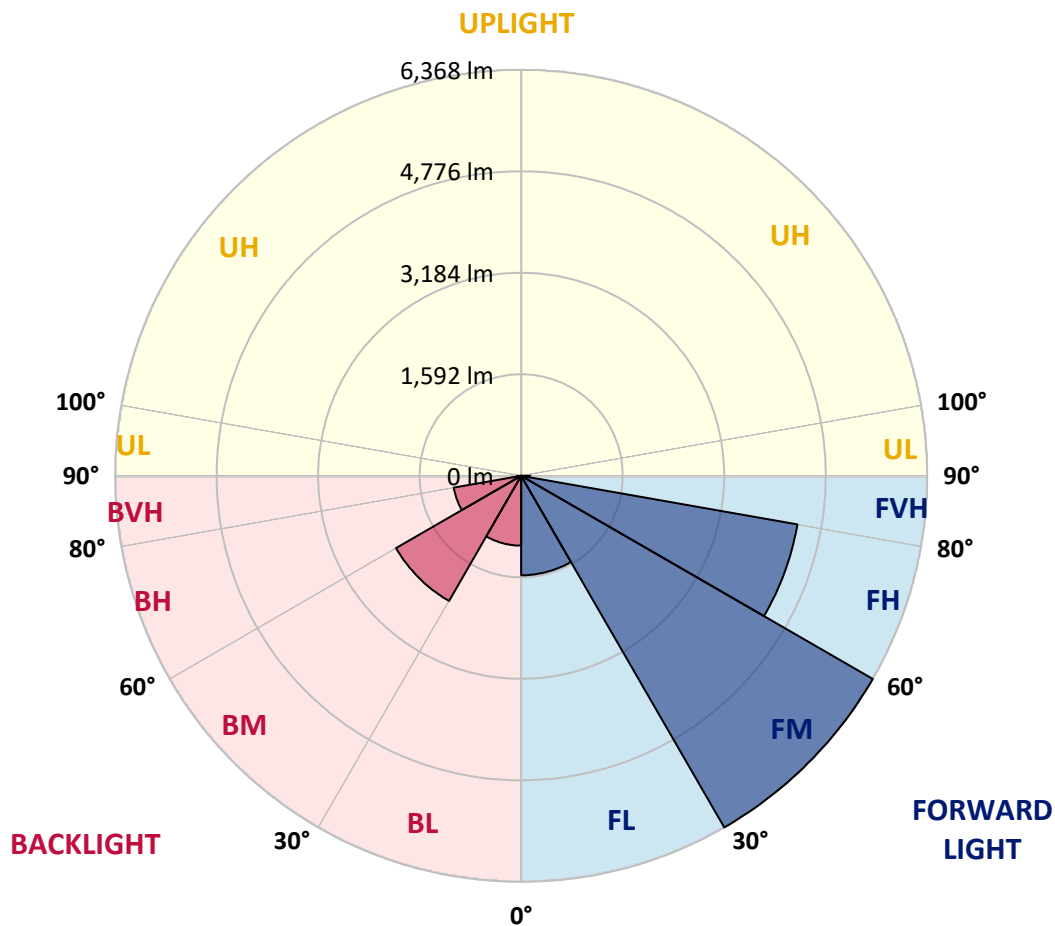
CATALOG NUMBER: ARCH3-130-722-U-T3

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1560.2 | 9.2       |                         |      |         |
| FM   | (30°-60°)   | 6368.1 | 37.5      |                         |      |         |
| FH   | (60°-80°)   | 4399.6 | 25.9      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 141.0  | 0.8       |                         |      | G2/225  |
| BL   | (0°-30°)    | 1095.7 | 6.5       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2266.0 | 13.4      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1073.8 | 6.3       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 59.6   | 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 III Medium



REPORT NUMBER: P836023

CATALOG NUMBER: ARCH3-130-722-U-T3

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 66°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3061.6 | 3061.6 | 3061.6 | 3061.6 | 3061.6 | 3061.6 | 3061.6 | 3061.6 | 3061.6 | 3061.6 | 3061.6 |
| 2.5°  | 3174.2 | 3169.2 | 3166.7 | 3156.7 | 3134.2 | 3144.2 | 3121.6 | 3106.6 | 3104.1 | 3069.1 | 3049.1 |
| 5°    | 3304.2 | 3301.7 | 3296.7 | 3281.7 | 3246.7 | 3251.7 | 3214.2 | 3186.7 | 3179.2 | 3124.1 | 3081.6 |
| 7.5°  | 3414.3 | 3409.3 | 3406.8 | 3386.8 | 3349.3 | 3346.8 | 3301.7 | 3261.7 | 3249.2 | 3174.2 | 3109.1 |
| 10°   | 3499.3 | 3491.8 | 3496.8 | 3476.8 | 3436.8 | 3429.3 | 3371.8 | 3319.3 | 3306.7 | 3211.7 | 3121.6 |
| 12.5° | 3571.9 | 3566.9 | 3574.4 | 3556.9 | 3524.4 | 3516.9 | 3459.3 | 3391.8 | 3376.8 | 3266.7 | 3149.2 |
| 15°   | 3651.9 | 3634.4 | 3649.4 | 3641.9 | 3619.4 | 3616.9 | 3564.4 | 3489.3 | 3469.3 | 3336.8 | 3191.7 |
| 17.5° | 3694.4 | 3684.4 | 3702.0 | 3704.5 | 3694.4 | 3712.0 | 3661.9 | 3571.9 | 3554.4 | 3401.8 | 3229.2 |
| 20°   | 3724.5 | 3709.5 | 3729.5 | 3744.5 | 3752.0 | 3787.0 | 3747.0 | 3659.4 | 3639.4 | 3464.3 | 3264.2 |
| 22.5° | 3827.0 | 3794.5 | 3797.0 | 3807.0 | 3812.0 | 3862.0 | 3837.0 | 3752.0 | 3732.0 | 3541.9 | 3306.7 |
| 25°   | 4084.7 | 4019.6 | 3977.1 | 3947.1 | 3912.1 | 3954.6 | 3939.6 | 3857.0 | 3839.5 | 3634.4 | 3359.3 |
| 27.5° | 4484.9 | 4402.3 | 4317.3 | 4229.7 | 4092.2 | 4074.7 | 4049.6 | 3974.6 | 3954.6 | 3727.0 | 3411.8 |
| 30°   | 4940.1 | 4857.6 | 4757.5 | 4617.4 | 4359.8 | 4224.7 | 4167.2 | 4084.7 | 4062.1 | 3809.5 | 3461.8 |
| 32.5° | 5392.8 | 5320.3 | 5220.3 | 5050.2 | 4682.5 | 4407.3 | 4284.8 | 4199.7 | 4177.2 | 3899.6 | 3521.9 |
| 35°   | 5745.5 | 5700.5 | 5635.5 | 5422.9 | 5002.6 | 4622.4 | 4454.9 | 4352.3 | 4327.3 | 4042.1 | 3631.9 |
| 37.5° | 6030.7 | 5998.2 | 5943.1 | 5720.5 | 5235.3 | 4837.6 | 4650.0 | 4532.4 | 4504.9 | 4197.2 | 3749.5 |
| 40°   | 6450.9 | 6365.9 | 6320.8 | 5998.2 | 5437.9 | 5032.7 | 4870.1 | 4747.5 | 4717.5 | 4362.3 | 3844.5 |
| 42.5° | 6808.6 | 6746.1 | 6691.0 | 6245.8 | 5630.5 | 5200.2 | 5077.7 | 4965.1 | 4925.1 | 4524.9 | 3947.1 |
| 45°   | 6868.6 | 6893.6 | 6866.1 | 6368.4 | 5935.6 | 5365.3 | 5287.8 | 5215.3 | 5177.7 | 4745.0 | 4102.2 |
| 47.5° | 6871.1 | 6871.1 | 6708.5 | 6438.4 | 6313.3 | 5550.4 | 5512.9 | 5537.9 | 5497.9 | 5025.2 | 4287.3 |
| 50°   | 6691.0 | 6723.5 | 6638.5 | 6455.9 | 6413.4 | 5735.5 | 5788.1 | 5923.1 | 5883.1 | 5322.8 | 4487.4 |
| 52.5° | 6318.3 | 6425.9 | 6423.4 | 6428.4 | 6268.3 | 5893.1 | 6078.2 | 6385.9 | 6318.3 | 5658.0 | 4700.0 |
| 55°   | 5660.5 | 5875.6 | 6068.2 | 6233.3 | 6143.2 | 5988.2 | 6433.4 | 6878.6 | 6808.6 | 6033.2 | 4915.1 |
| 57.5° | 5097.7 | 5235.3 | 5475.4 | 5943.1 | 5995.7 | 6070.7 | 6766.1 | 7393.9 | 7331.4 | 6448.4 | 5140.2 |
| 60°   | 4454.9 | 4645.0 | 4885.1 | 5550.4 | 5815.6 | 6178.3 | 7131.3 | 7896.7 | 7836.6 | 6868.6 | 5357.8 |
| 62.5° | 3466.8 | 3712.0 | 4192.2 | 4947.6 | 5552.9 | 6245.8 | 7418.9 | 8339.4 | 8311.9 | 7266.3 | 5552.9 |
| 65°   | 2416.3 | 2633.9 | 3306.7 | 4207.2 | 5135.2 | 6215.8 | 7649.0 | 8734.6 | 8709.6 | 7591.5 | 5690.5 |
| 67.5° | 1410.7 | 1663.4 | 2423.8 | 3386.8 | 4397.3 | 6008.2 | 7724.1 | 8967.2 | 8967.2 | 7789.1 | 5728.0 |
| 70°   | 805.4  | 923.0  | 1598.3 | 2468.8 | 3371.8 | 5435.4 | 7514.0 | 8964.7 | 9007.3 | 7744.1 | 5572.9 |
| 72.5° | 562.8  | 615.3  | 1075.6 | 1660.9 | 2286.2 | 4397.3 | 6963.7 | 8532.0 | 8589.5 | 7318.9 | 5042.7 |
| 75°   | 437.7  | 475.3  | 757.9  | 1133.1 | 1440.8 | 2986.6 | 5760.5 | 7193.8 | 7346.4 | 6238.3 | 4077.2 |
| 77.5° | 332.7  | 360.2  | 442.7  | 707.9  | 923.0  | 1715.9 | 3802.0 | 4717.5 | 4727.5 | 3819.5 | 2186.2 |
| 80°   | 242.6  | 270.1  | 295.2  | 432.7  | 490.3  | 802.9  | 1435.8 | 1971.0 | 1916.0 | 1848.5 | 1183.1 |
| 82.5° | 145.1  | 172.6  | 180.1  | 235.1  | 240.1  | 342.7  | 502.8  | 635.3  | 610.3  | 812.9  | 555.3  |
| 85°   | 62.5   | 87.5   | 92.5   | 107.6  | 102.6  | 140.1  | 200.1  | 167.6  | 150.1  | 172.6  | 120.1  |
| 87.5° | 15.0   | 25.0   | 25.0   | 27.5   | 22.5   | 35.0   | 37.5   | 27.5   | 25.0   | 30.0   | 30.0   |
| 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: P836023

CATALOG NUMBER: ARCH3-130-722-U-T3

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3061.6 | 3061.6 | 3061.6 | 3061.6 | 3061.6 | 3061.6 | 3061.6 | 3061.6 | 3061.6 | 3061.6 | 3061.6 |
| 2.5°  | 3044.1 | 3036.6 | 3039.1 | 2996.6 | 2984.1 | 2971.6 | 2964.1 | 2959.1 | 2954.1 | 2961.6 | 2969.1 |
| 5°    | 3066.6 | 3049.1 | 3029.1 | 2966.6 | 2941.6 | 2914.0 | 2894.0 | 2876.5 | 2869.0 | 2869.0 | 2876.5 |
| 7.5°  | 3084.1 | 3054.1 | 3011.6 | 2929.0 | 2884.0 | 2846.5 | 2814.0 | 2791.5 | 2779.0 | 2779.0 | 2786.5 |
| 10°   | 3086.6 | 3044.1 | 2976.6 | 2876.5 | 2816.5 | 2761.5 | 2723.9 | 2698.9 | 2681.4 | 2681.4 | 2686.4 |
| 12.5° | 3101.6 | 3044.1 | 2956.6 | 2836.5 | 2761.5 | 2693.9 | 2648.9 | 2611.4 | 2603.9 | 2603.9 | 2608.9 |
| 15°   | 3126.7 | 3056.6 | 2944.1 | 2801.5 | 2711.4 | 2633.9 | 2583.9 | 2543.8 | 2528.8 | 2538.8 | 2541.3 |
| 17.5° | 3149.2 | 3064.1 | 2921.5 | 2756.5 | 2648.9 | 2563.9 | 2508.8 | 2473.8 | 2453.8 | 2476.3 | 2476.3 |
| 20°   | 3164.2 | 3064.1 | 2889.0 | 2698.9 | 2581.4 | 2486.3 | 2433.8 | 2391.3 | 2376.3 | 2403.8 | 2406.3 |
| 22.5° | 3186.7 | 3061.6 | 2854.0 | 2641.4 | 2508.8 | 2408.8 | 2356.2 | 2323.7 | 2316.2 | 2346.2 | 2356.2 |
| 25°   | 3211.7 | 3066.6 | 2816.5 | 2576.4 | 2428.8 | 2331.2 | 2291.2 | 2276.2 | 2281.2 | 2318.7 | 2331.2 |
| 27.5° | 3239.2 | 3076.6 | 2779.0 | 2503.8 | 2341.2 | 2253.7 | 2231.2 | 2238.7 | 2258.7 | 2306.2 | 2321.2 |
| 30°   | 3264.2 | 3079.1 | 2726.4 | 2418.8 | 2241.2 | 2158.6 | 2168.6 | 2201.2 | 2231.2 | 2278.7 | 2296.2 |
| 32.5° | 3296.7 | 3081.6 | 2671.4 | 2326.2 | 2133.6 | 2073.6 | 2118.6 | 2171.1 | 2201.2 | 2246.2 | 2266.2 |
| 35°   | 3376.8 | 3124.1 | 2628.9 | 2236.2 | 2033.6 | 2001.1 | 2076.1 | 2143.6 | 2161.1 | 2201.2 | 2218.7 |
| 37.5° | 3469.3 | 3194.2 | 2606.4 | 2143.6 | 1936.0 | 1928.5 | 2023.6 | 2091.1 | 2096.1 | 2121.1 | 2138.6 |
| 40°   | 3526.9 | 3224.2 | 2581.4 | 2066.1 | 1848.5 | 1853.5 | 1951.0 | 2003.6 | 1993.6 | 2011.1 | 2023.6 |
| 42.5° | 3584.4 | 3234.2 | 2528.8 | 2001.1 | 1765.9 | 1770.9 | 1846.0 | 1883.5 | 1888.5 | 1926.0 | 1943.5 |
| 45°   | 3681.9 | 3261.7 | 2471.3 | 1941.0 | 1690.9 | 1673.4 | 1718.4 | 1768.4 | 1833.5 | 1906.0 | 1926.0 |
| 47.5° | 3812.0 | 3319.3 | 2411.3 | 1868.5 | 1618.4 | 1560.8 | 1578.3 | 1665.9 | 1733.4 | 1801.0 | 1813.5 |
| 50°   | 3944.6 | 3376.8 | 2356.2 | 1780.9 | 1545.8 | 1440.8 | 1448.3 | 1528.3 | 1583.3 | 1635.9 | 1643.4 |
| 52.5° | 4074.7 | 3426.8 | 2308.7 | 1698.4 | 1463.3 | 1298.2 | 1328.2 | 1410.7 | 1448.3 | 1473.3 | 1480.8 |
| 55°   | 4204.7 | 3469.3 | 2266.2 | 1628.4 | 1368.2 | 1185.6 | 1213.1 | 1290.7 | 1328.2 | 1340.7 | 1345.7 |
| 57.5° | 4339.8 | 3519.4 | 2233.7 | 1568.3 | 1260.7 | 1085.6 | 1103.1 | 1158.1 | 1193.1 | 1208.1 | 1203.1 |
| 60°   | 4452.3 | 3561.9 | 2216.2 | 1505.8 | 1153.1 | 993.0  | 988.0  | 1038.0 | 1088.1 | 1103.1 | 1098.1 |
| 62.5° | 4539.9 | 3589.4 | 2188.7 | 1425.8 | 1058.1 | 900.5  | 875.5  | 940.5  | 993.0  | 1003.0 | 1010.5 |
| 65°   | 4587.4 | 3591.9 | 2121.1 | 1323.2 | 960.5  | 800.4  | 782.9  | 847.9  | 880.5  | 890.5  | 890.5  |
| 67.5° | 4579.9 | 3551.9 | 1988.5 | 1185.6 | 870.5  | 710.4  | 695.4  | 735.4  | 782.9  | 790.4  | 782.9  |
| 70°   | 4424.8 | 3386.8 | 1775.9 | 1040.5 | 762.9  | 630.3  | 602.8  | 642.8  | 687.9  | 660.3  | 647.8  |
| 72.5° | 3984.6 | 2959.1 | 1463.3 | 880.5  | 642.8  | 530.3  | 517.8  | 557.8  | 560.3  | 565.3  | 552.8  |
| 75°   | 3144.2 | 2203.7 | 1095.6 | 685.4  | 520.3  | 445.2  | 442.7  | 435.2  | 445.2  | 465.2  | 450.2  |
| 77.5° | 1650.9 | 1100.6 | 592.8  | 420.2  | 377.7  | 357.7  | 340.2  | 337.7  | 367.7  | 380.2  | 365.2  |
| 80°   | 895.5  | 617.8  | 340.2  | 252.6  | 230.1  | 232.6  | 255.1  | 250.1  | 282.6  | 290.2  | 277.6  |
| 82.5° | 390.2  | 292.7  | 167.6  | 152.6  | 152.6  | 150.1  | 157.6  | 175.1  | 210.1  | 210.1  | 167.6  |
| 85°   | 85.0   | 72.5   | 65.0   | 75.0   | 85.0   | 85.0   | 85.0   | 85.0   | 60.0   | 32.5   | 22.5   |
| 87.5° | 27.5   | 27.5   | 27.5   | 30.0   | 32.5   | 32.5   | 27.5   | 20.0   | 12.5   | 2.5    | 0.0    |
| 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)