

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: P1210491

Luminaire Tested: **ARCH3-140-727-U-T3RE**

Issue Date: 11/5/2025

### Test Information

Test Method: LM-79-08  
Report Number: P1210491  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/5/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH3-140-727-U-T3RE  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2700K, 1110mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY ILLUMINANCE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

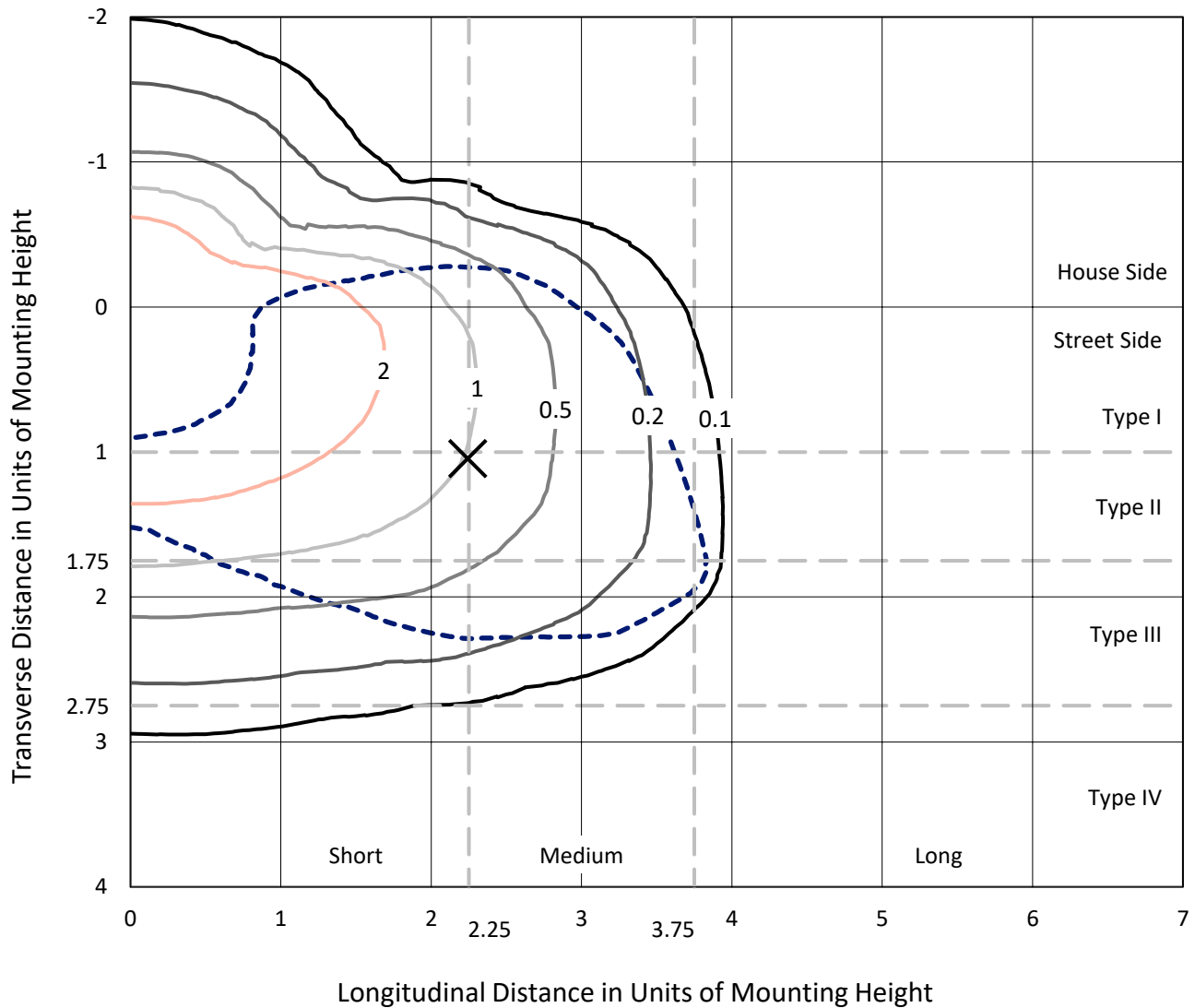
Lumens per Lamp: N/A  
Luminaire Lumens: 19134 lumens  
Efficiency: N/A  
Efficacy: 134.3 lumens/watt  
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 142.5  
Input Voltage (V): NR  
Input Current (Ain): 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: P1210491  
 CATALOG NUMBER: ARCH3-140-727-U-T3RE

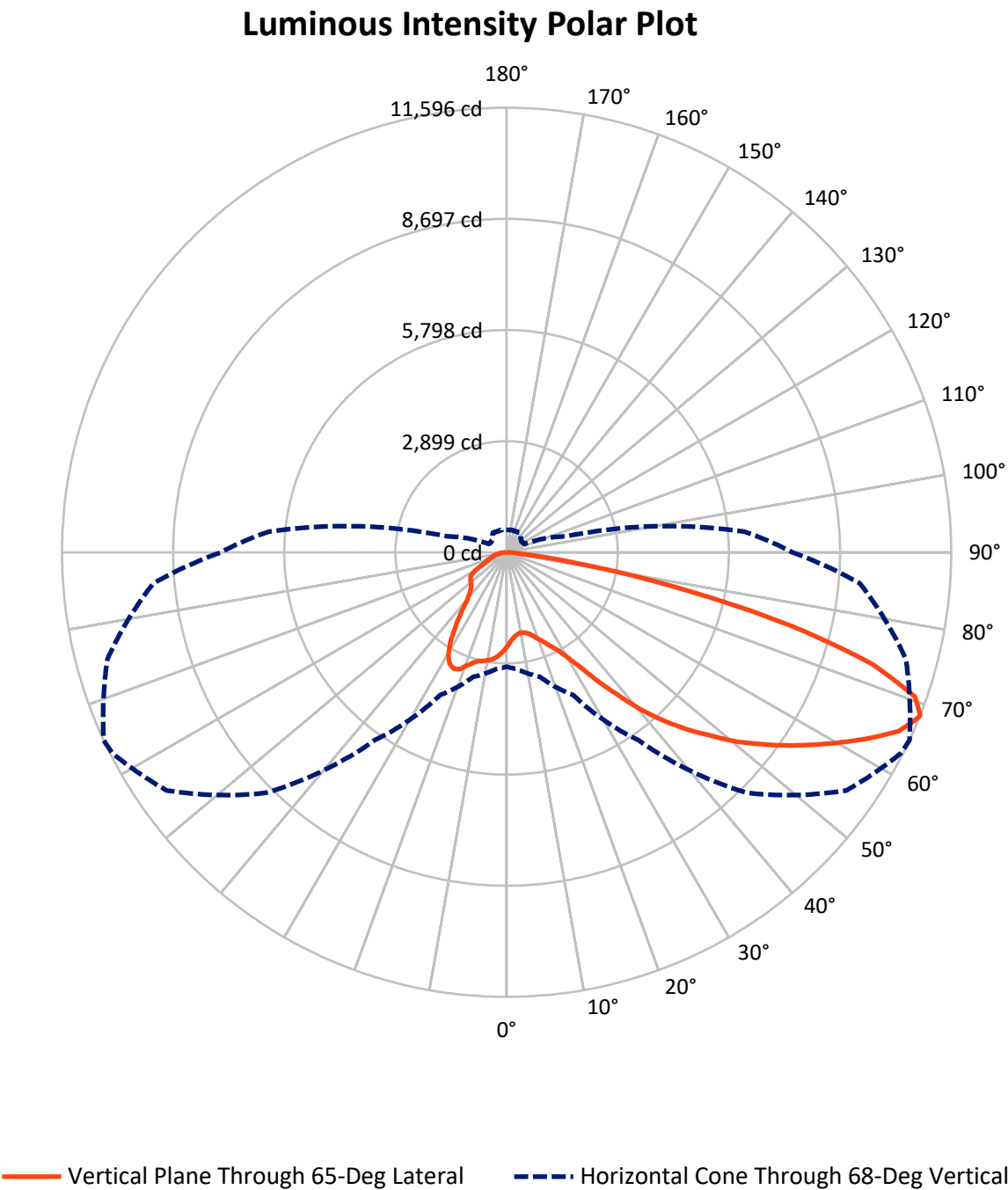
## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc  
 Type III - Short - N/A

REPORT NUMBER: P1210491  
CATALOG NUMBER: ARCH3-140-727-U-T3RE



REPORT NUMBER: P1210491

CATALOG NUMBER: ARCH3-140-727-U-T3RE

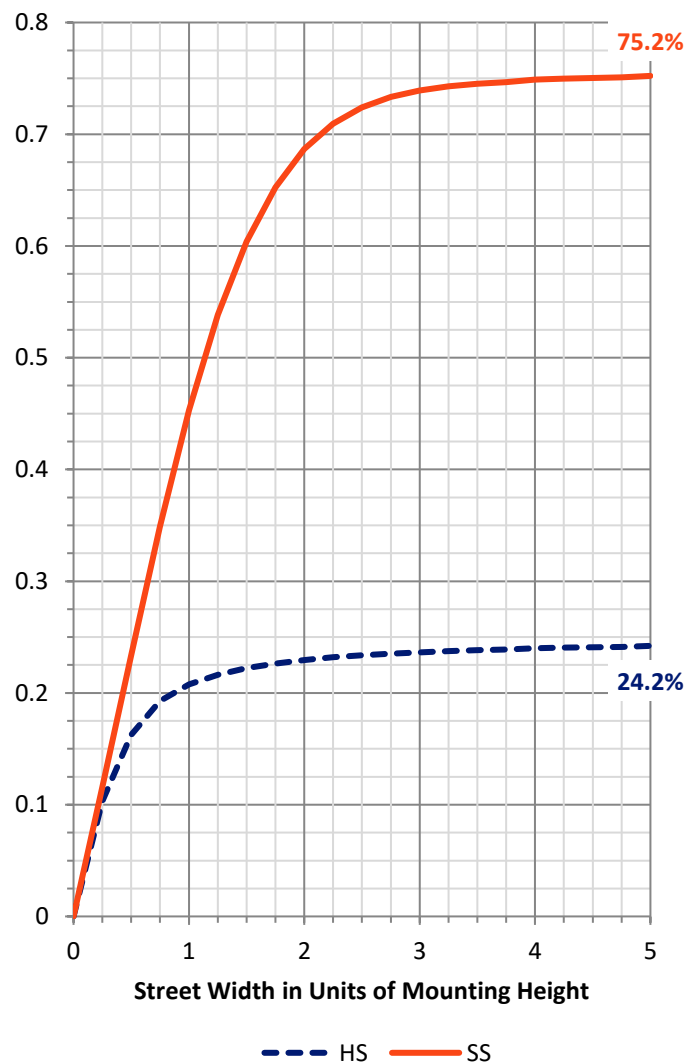
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4691.1   | 0.0    | 4691.1  |
|                    | % Fixture | 24.5     | 0.0    | 24.5    |
| <b>Street Side</b> | Lumens    | 14442.9  | 0.0    | 14442.9 |
|                    | % Fixture | 75.5     | 0.0    | 75.5    |
| <b>Total</b>       | Lumens    | 19134.0  | 0.0    | 19134.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 233.7   | 1.2       |
| 10°-20°   | 760.8   | 4.0       |
| 20°-30°   | 1377.1  | 7.2       |
| 30°-40°   | 2166.3  | 11.3      |
| 40°-50°   | 3226.4  | 16.9      |
| 50°-60°   | 4232.5  | 22.1      |
| 60°-70°   | 4628.5  | 24.2      |
| 70°-80°   | 2290.3  | 12.0      |
| 80°-90°   | 218.5   | 1.1       |
| 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°    | 19134.0 | 100.0     |
| 0°-180°   | 19134.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P1210491

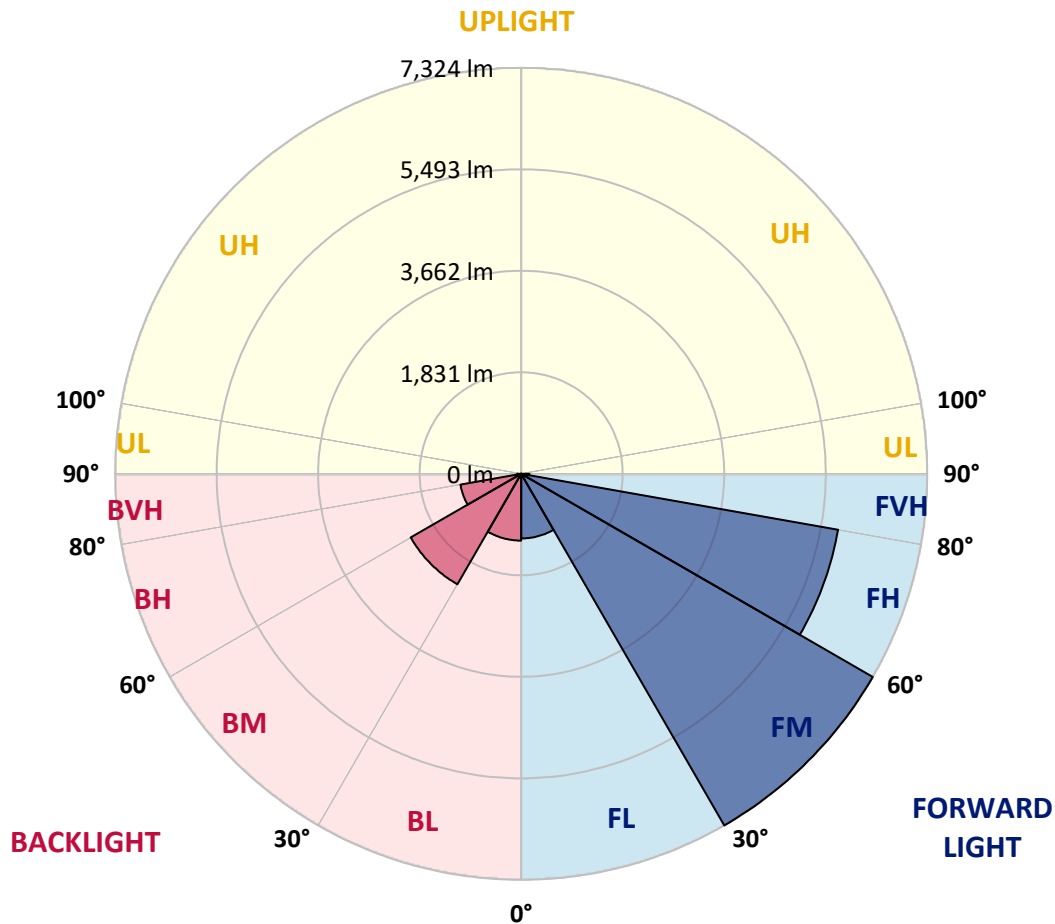
CATALOG NUMBER: ARCH3-140-727-U-T3RE

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1166.4 | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 7324.2 | 38.3      |                         |      |         |
| FH   | (60°-80°)   | 5805.3 | 30.3      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 146.9  | 0.8       |                         |      | G2/225  |
| BL   | (0°-30°)    | 1205.2 | 6.3       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2301.0 | 12.0      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1113.4 | 5.8       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 71.5   | 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 Short



REPORT NUMBER: P1210491

CATALOG NUMBER: ARCH3-140-727-U-T3RE

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 63°     | 65°     | 75°     | 85°    |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|--------|
| 0°    | 2445.1 | 2445.1 | 2445.1 | 2445.1 | 2445.1 | 2445.1 | 2445.1  | 2445.1  | 2445.1  | 2445.1  | 2445.1 |
| 2.5°  | 2134.2 | 2129.3 | 2141.6 | 2154.0 | 2181.1 | 2213.2 | 2257.6  | 2294.6  | 2299.5  | 2368.6  | 2422.9 |
| 5°    | 2008.4 | 2001.0 | 2013.3 | 2028.1 | 2040.5 | 2079.9 | 2126.8  | 2181.1  | 2203.3  | 2304.5  | 2420.4 |
| 7.5°  | 2020.7 | 2018.2 | 2023.2 | 2018.2 | 2018.2 | 2035.5 | 2067.6  | 2121.9  | 2146.5  | 2267.4  | 2432.8 |
| 10°   | 2092.3 | 2097.2 | 2099.7 | 2084.9 | 2070.1 | 2062.7 | 2072.5  | 2109.5  | 2126.8  | 2269.9  | 2487.0 |
| 12.5° | 2210.7 | 2218.1 | 2220.6 | 2193.4 | 2173.7 | 2141.6 | 2124.3  | 2139.1  | 2151.5  | 2294.6  | 2563.5 |
| 15°   | 2371.1 | 2376.0 | 2358.7 | 2341.5 | 2292.1 | 2252.6 | 2210.7  | 2198.4  | 2203.3  | 2346.4  | 2649.9 |
| 17.5° | 2558.6 | 2551.2 | 2551.2 | 2509.2 | 2445.1 | 2383.4 | 2314.3  | 2304.5  | 2304.5  | 2430.3  | 2773.2 |
| 20°   | 2763.4 | 2770.8 | 2748.6 | 2691.8 | 2627.7 | 2531.4 | 2462.4  | 2418.0  | 2422.9  | 2526.5  | 2923.7 |
| 22.5° | 3059.4 | 3071.8 | 3012.6 | 2931.2 | 2832.5 | 2721.4 | 2622.7  | 2551.2  | 2553.7  | 2652.3  | 3079.2 |
| 25°   | 3377.7 | 3382.7 | 3345.7 | 3237.1 | 3103.9 | 2946.0 | 2815.2  | 2723.9  | 2721.4  | 2793.0  | 3279.0 |
| 27.5° | 3703.4 | 3725.6 | 3651.6 | 3548.0 | 3424.6 | 3227.2 | 3054.5  | 2931.2  | 2911.4  | 3007.6  | 3528.2 |
| 30°   | 4039.0 | 4066.1 | 3994.6 | 3893.4 | 3740.4 | 3572.6 | 3367.9  | 3224.8  | 3212.4  | 3340.7  | 3861.3 |
| 32.5° | 4377.0 | 4384.4 | 4327.6 | 4243.8 | 4105.6 | 3947.7 | 3782.4  | 3624.5  | 3612.1  | 3821.8  | 4293.1 |
| 35°   | 4653.3 | 4675.5 | 4636.1 | 4616.3 | 4515.2 | 4369.6 | 4209.2  | 4117.9  | 4150.0  | 4418.9  | 4853.2 |
| 37.5° | 4986.4 | 5008.6 | 4964.2 | 4959.3 | 4927.2 | 4801.4 | 4690.3  | 4697.7  | 4729.8  | 5095.0  | 5442.9 |
| 40°   | 5467.5 | 5492.2 | 5378.7 | 5329.4 | 5329.4 | 5206.0 | 5169.0  | 5344.2  | 5386.1  | 5761.1  | 6057.2 |
| 42.5° | 5874.6 | 5914.1 | 5847.5 | 5815.4 | 5719.2 | 5632.8 | 5677.3  | 5924.0  | 5995.5  | 6397.7  | 6592.6 |
| 45°   | 6072.0 | 6101.6 | 6180.6 | 6274.3 | 6180.6 | 6030.1 | 6197.9  | 6476.7  | 6577.8  | 6984.9  | 7128.0 |
| 47.5° | 6178.1 | 6205.3 | 6296.5 | 6548.2 | 6612.4 | 6486.5 | 6723.4  | 7071.3  | 7140.4  | 7567.2  | 7638.8 |
| 50°   | 6192.9 | 6279.3 | 6397.7 | 6649.4 | 6943.0 | 6960.2 | 7251.4  | 7675.8  | 7757.2  | 8139.6  | 8087.8 |
| 52.5° | 6072.0 | 6106.6 | 6350.8 | 6775.2 | 7100.9 | 7397.0 | 7826.3  | 8255.6  | 8314.8  | 8677.5  | 8485.0 |
| 55°   | 5874.6 | 5924.0 | 6168.2 | 6745.6 | 7253.9 | 7811.5 | 8411.0  | 8825.5  | 8892.1  | 9200.6  | 8852.7 |
| 57.5° | 5697.0 | 5721.7 | 5983.2 | 6659.2 | 7406.8 | 8226.0 | 8931.6  | 9420.1  | 9464.6  | 9659.5  | 9124.1 |
| 60°   | 5499.6 | 5526.7 | 5788.3 | 6474.2 | 7520.3 | 8539.3 | 9474.4  | 10019.7 | 10059.2 | 10143.1 | 9439.9 |
| 62.5° | 4988.9 | 5060.4 | 5388.6 | 6168.2 | 7490.7 | 8897.1 | 10054.2 | 10611.8 | 10661.2 | 10569.9 | 9689.1 |
| 65°   | 4051.3 | 4152.5 | 4554.6 | 5474.9 | 7214.4 | 9129.0 | 10528.0 | 11157.1 | 11241.0 | 10890.7 | 9755.7 |
| 67.5° | 3145.8 | 3217.4 | 3540.6 | 4344.9 | 6244.7 | 9013.0 | 10833.9 | 11532.2 | 11556.8 | 10838.8 | 9385.6 |
| 68°   | 2983.0 | 3054.5 | 3362.9 | 4108.1 | 5975.8 | 8874.9 | 10826.5 | 11542.0 | 11596.3 | 10782.1 | 9242.5 |
| 70°   | 2282.3 | 2363.7 | 2657.3 | 3254.4 | 4816.2 | 7996.5 | 10375.0 | 11305.2 | 11297.8 | 10096.2 | 8354.3 |
| 72.5° | 1426.1 | 1473.0 | 1675.3 | 2052.8 | 3185.3 | 6084.4 | 8805.8  | 9970.4  | 9990.1  | 8230.9  | 6407.6 |
| 75°   | 905.5  | 905.5  | 895.6  | 994.3  | 1633.4 | 3466.6 | 6545.7  | 7675.8  | 7690.6  | 5763.6  | 4039.0 |
| 77.5° | 787.1  | 764.9  | 658.8  | 557.6  | 651.4  | 1347.1 | 3873.7  | 4956.8  | 4875.4  | 3103.9  | 1917.1 |
| 80°   | 663.7  | 626.7  | 540.3  | 449.0  | 419.4  | 421.9  | 1487.8  | 2516.6  | 2408.1  | 1117.7  | 636.6  |
| 82.5° | 478.7  | 446.6  | 407.1  | 352.8  | 323.2  | 251.7  | 310.9   | 727.9   | 710.6   | 323.2   | 207.3  |
| 85°   | 259.1  | 234.4  | 229.5  | 231.9  | 194.9  | 155.4  | 130.8   | 160.4   | 160.4   | 140.6   | 118.4  |
| 87.5° | 91.3   | 66.6   | 79.0   | 88.8   | 76.5   | 64.1   | 51.8    | 61.7    | 64.1    | 61.7    | 56.7   |
| 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: P1210491

CATALOG NUMBER: ARCH3-140-727-U-T3RE

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2445.1 | 2445.1 | 2445.1 | 2445.1 | 2445.1 | 2445.1 | 2445.1 | 2445.1 | 2445.1 | 2445.1 | 2445.1 |
| 2.5°  | 2455.0 | 2479.6 | 2538.8 | 2590.7 | 2627.7 | 2659.7 | 2677.0 | 2684.4 | 2701.7 | 2704.2 | 2699.2 |
| 5°    | 2474.7 | 2538.8 | 2627.7 | 2704.2 | 2746.1 | 2763.4 | 2768.3 | 2770.8 | 2763.4 | 2768.3 | 2763.4 |
| 7.5°  | 2526.5 | 2607.9 | 2733.8 | 2800.4 | 2807.8 | 2780.6 | 2783.1 | 2773.2 | 2783.1 | 2793.0 | 2793.0 |
| 10°   | 2605.5 | 2709.1 | 2827.5 | 2852.2 | 2820.1 | 2805.3 | 2834.9 | 2894.1 | 2913.9 | 2941.0 | 2941.0 |
| 12.5° | 2709.1 | 2832.5 | 2916.3 | 2894.1 | 2864.5 | 2913.9 | 3000.2 | 3059.4 | 3079.2 | 3089.1 | 3081.7 |
| 15°   | 2827.5 | 2960.8 | 3002.7 | 2928.7 | 2983.0 | 3089.1 | 3118.7 | 3084.1 | 3034.8 | 3012.6 | 3024.9 |
| 17.5° | 2978.0 | 3089.1 | 3064.4 | 3015.0 | 3138.4 | 3153.2 | 3057.0 | 2946.0 | 2867.0 | 2837.4 | 2857.1 |
| 20°   | 3135.9 | 3232.2 | 3118.7 | 3140.9 | 3217.4 | 3059.4 | 2876.9 | 2733.8 | 2664.7 | 2652.3 | 2672.1 |
| 22.5° | 3303.7 | 3365.4 | 3172.9 | 3286.4 | 3172.9 | 2852.2 | 2632.6 | 2558.6 | 2541.3 | 2561.1 | 2578.3 |
| 25°   | 3493.7 | 3486.3 | 3266.7 | 3330.9 | 3007.6 | 2598.1 | 2467.3 | 2462.4 | 2462.4 | 2474.7 | 2499.4 |
| 27.5° | 3708.3 | 3592.4 | 3360.5 | 3271.6 | 2721.4 | 2388.3 | 2363.7 | 2366.1 | 2358.7 | 2361.2 | 2373.5 |
| 30°   | 3957.5 | 3735.5 | 3464.1 | 3076.7 | 2400.7 | 2230.4 | 2220.6 | 2213.2 | 2195.9 | 2191.0 | 2195.9 |
| 32.5° | 4270.9 | 3886.0 | 3570.2 | 2756.0 | 2119.4 | 2067.6 | 2062.7 | 2023.2 | 1981.2 | 1976.3 | 1993.6 |
| 35°   | 4668.1 | 4159.9 | 3624.5 | 2353.8 | 1887.5 | 1885.0 | 1867.7 | 1806.1 | 1751.8 | 1751.8 | 1739.4 |
| 37.5° | 5122.1 | 4512.7 | 3646.7 | 1961.5 | 1695.0 | 1707.4 | 1658.0 | 1579.1 | 1537.1 | 1512.5 | 1519.9 |
| 40°   | 5586.0 | 4914.9 | 3644.2 | 1618.5 | 1527.3 | 1529.7 | 1492.7 | 1396.5 | 1292.9 | 1231.2 | 1246.0 |
| 42.5° | 6032.5 | 5280.0 | 3580.0 | 1436.0 | 1391.6 | 1384.2 | 1354.5 | 1223.8 | 1137.4 | 1088.1 | 1090.5 |
| 45°   | 6390.3 | 5657.5 | 3481.4 | 1327.4 | 1268.2 | 1280.5 | 1213.9 | 1135.0 | 1056.0 | 1011.6 | 1009.1 |
| 47.5° | 6748.1 | 5943.7 | 3323.5 | 1260.8 | 1176.9 | 1154.7 | 1127.6 | 1073.3 | 1014.1 | 964.7  | 967.2  |
| 50°   | 7073.7 | 6188.0 | 3175.4 | 1216.4 | 1093.0 | 1036.3 | 1041.2 | 1009.1 | 957.3  | 912.9  | 910.4  |
| 52.5° | 7303.2 | 6348.4 | 3094.0 | 1191.7 | 991.9  | 930.2  | 947.4  | 930.2  | 880.8  | 848.8  | 846.3  |
| 55°   | 7532.7 | 6471.7 | 3121.1 | 1159.6 | 880.8  | 831.5  | 861.1  | 856.2  | 829.0  | 819.1  | 821.6  |
| 57.5° | 7717.7 | 6565.5 | 3217.4 | 1100.4 | 774.7  | 745.1  | 794.5  | 779.7  | 759.9  | 762.4  | 762.4  |
| 60°   | 7897.8 | 6686.4 | 3330.9 | 964.7  | 683.4  | 685.9  | 732.8  | 705.6  | 693.3  | 715.5  | 718.0  |
| 62.5° | 8085.3 | 6817.1 | 3237.1 | 767.3  | 604.5  | 621.8  | 676.0  | 653.8  | 658.8  | 690.8  | 700.7  |
| 65°   | 8063.1 | 6804.8 | 2637.5 | 629.2  | 535.4  | 569.9  | 651.4  | 644.0  | 646.4  | 658.8  | 663.7  |
| 67.5° | 7609.1 | 6370.6 | 1813.5 | 535.4  | 486.1  | 528.0  | 631.6  | 602.0  | 604.5  | 597.1  | 599.6  |
| 68°   | 7456.2 | 6217.6 | 1598.8 | 520.6  | 476.2  | 518.1  | 621.8  | 594.6  | 597.1  | 589.7  | 587.2  |
| 70°   | 6622.2 | 5324.4 | 1011.6 | 458.9  | 441.6  | 491.0  | 572.4  | 562.5  | 560.1  | 555.1  | 555.1  |
| 72.5° | 5048.1 | 3930.4 | 532.9  | 397.2  | 402.2  | 449.0  | 510.7  | 530.5  | 518.1  | 520.6  | 535.4  |
| 75°   | 3343.2 | 2363.7 | 370.1  | 340.5  | 352.8  | 384.9  | 454.0  | 493.5  | 481.1  | 488.5  | 481.1  |
| 77.5° | 1769.1 | 1273.1 | 296.1  | 288.7  | 288.7  | 310.9  | 375.0  | 436.7  | 436.7  | 431.8  | 424.4  |
| 80°   | 579.8  | 449.0  | 236.9  | 227.0  | 231.9  | 244.3  | 301.0  | 357.8  | 365.2  | 355.3  | 350.4  |
| 82.5° | 194.9  | 207.3  | 177.6  | 165.3  | 170.2  | 180.1  | 227.0  | 273.9  | 276.3  | 256.6  | 251.7  |
| 85°   | 120.9  | 138.2  | 111.0  | 108.6  | 108.6  | 111.0  | 138.2  | 150.5  | 138.2  | 123.4  | 128.3  |
| 87.5° | 56.7   | 69.1   | 51.8   | 44.4   | 37.0   | 32.1   | 24.7   | 9.9    | 9.9    | 4.9    | 4.9    |
| 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)