

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: P836028

Luminaire Tested: **ARCH3-130-727-U-T2R**

Issue Date: 5/16/2024

### Test Information

Test Method: LM-79-08  
Report Number: P836028  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH3-130-727-U-T2R  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2700K, 1035mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 18802 lumens  
Efficiency: N/A  
Efficacy: 141.8 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

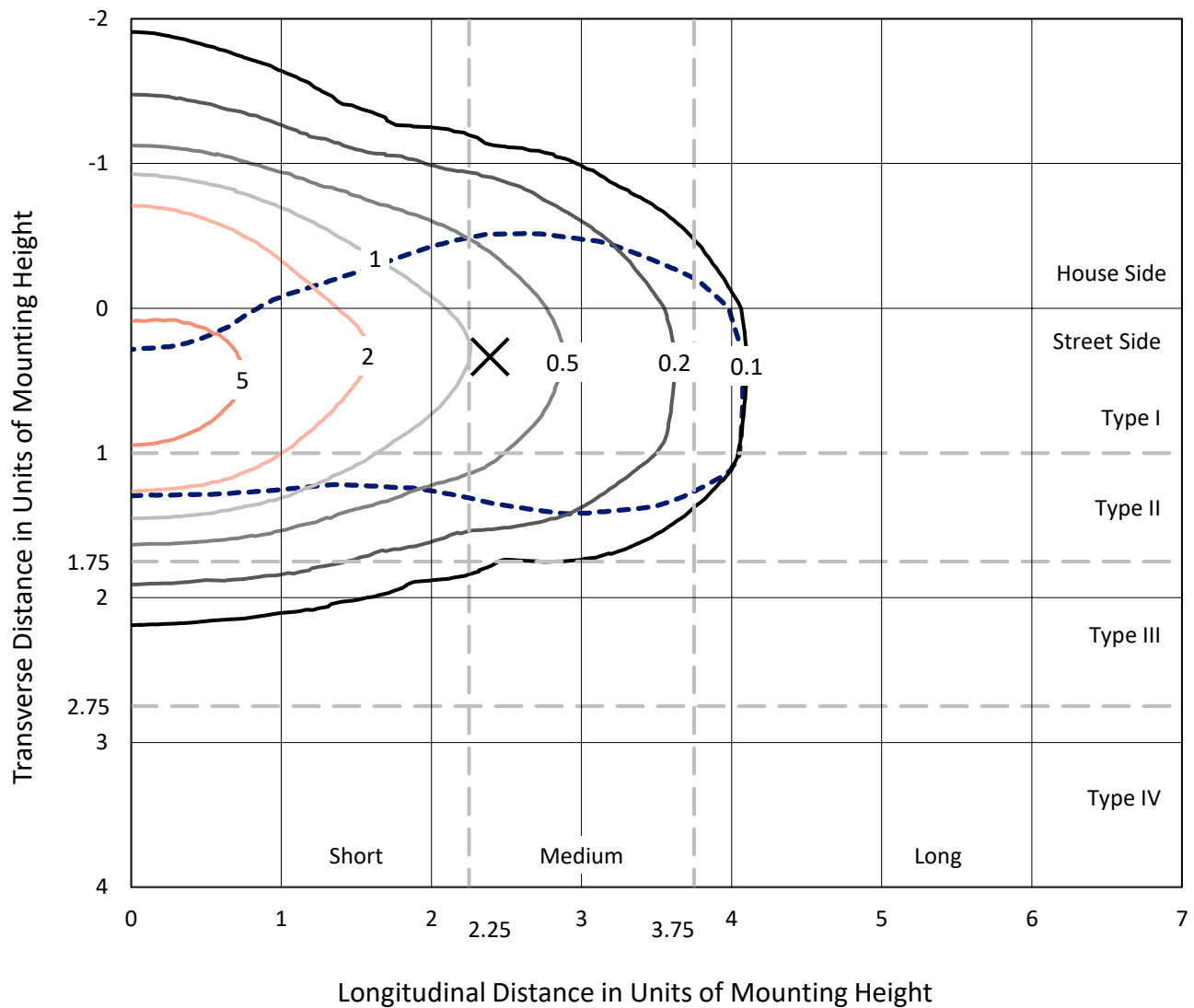


REPORT NUMBER: P836028

CATALOG NUMBER: ARCH3-130-727-U-T2R

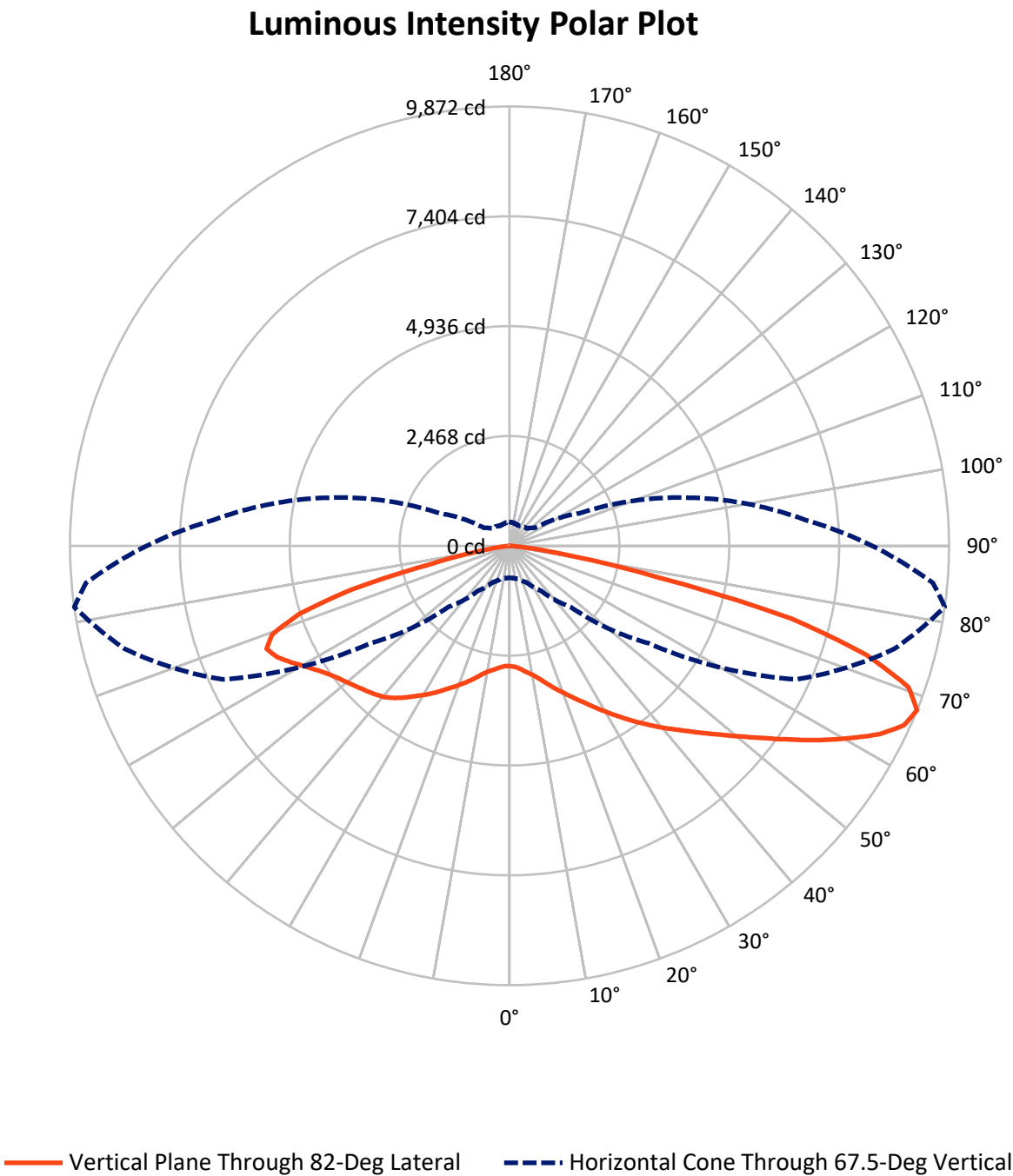
## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc  
Type II - Medium - N/A

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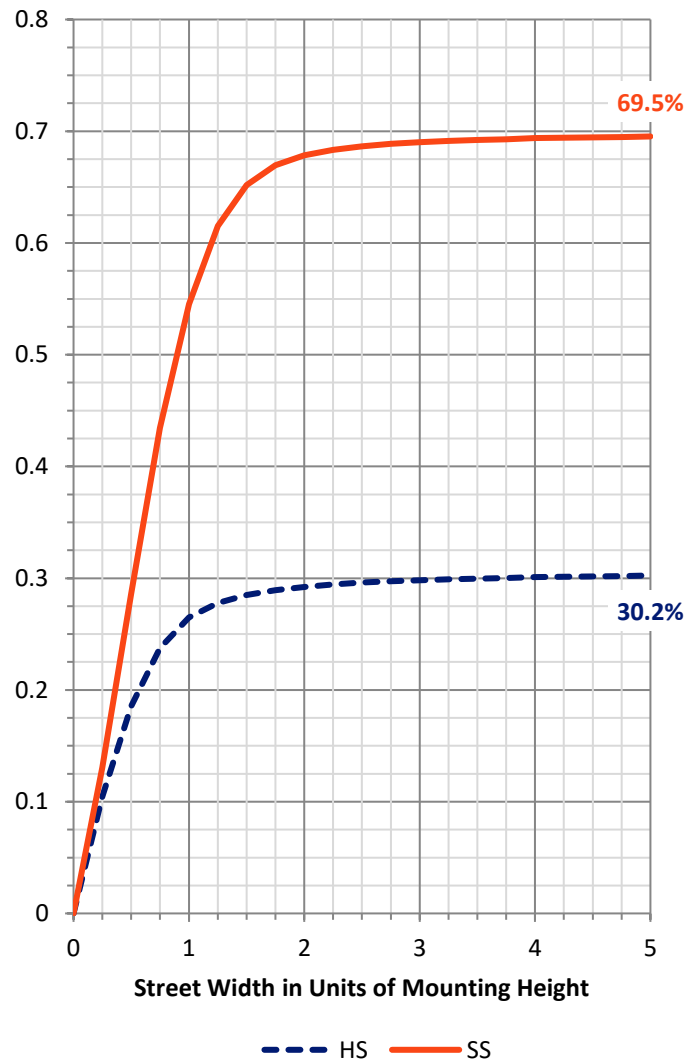
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5726.0   | 0.0    | 5726.0  |
|                    | % Fixture | 30.5     | 0.0    | 30.5    |
| <b>Street Side</b> | Lumens    | 13076.0  | 0.0    | 13076.0 |
|                    | % Fixture | 69.5     | 0.0    | 69.5    |
| <b>Total</b>       | Lumens    | 18802.0  | 0.0    | 18802.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 279.3   | 1.5       |
| 10°-20°   | 1006.1  | 5.4       |
| 20°-30°   | 2022.1  | 10.8      |
| 30°-40°   | 3176.4  | 16.9      |
| 40°-50°   | 3869.5  | 20.6      |
| 50°-60°   | 3656.2  | 19.4      |
| 60°-70°   | 3019.2  | 16.1      |
| 70°-80°   | 1644.1  | 8.7       |
| 80°-90°   | 129.3   | 0.7       |
| 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°    | 18802.0 | 100.0     |
| 0°-180°   | 18802.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P836028

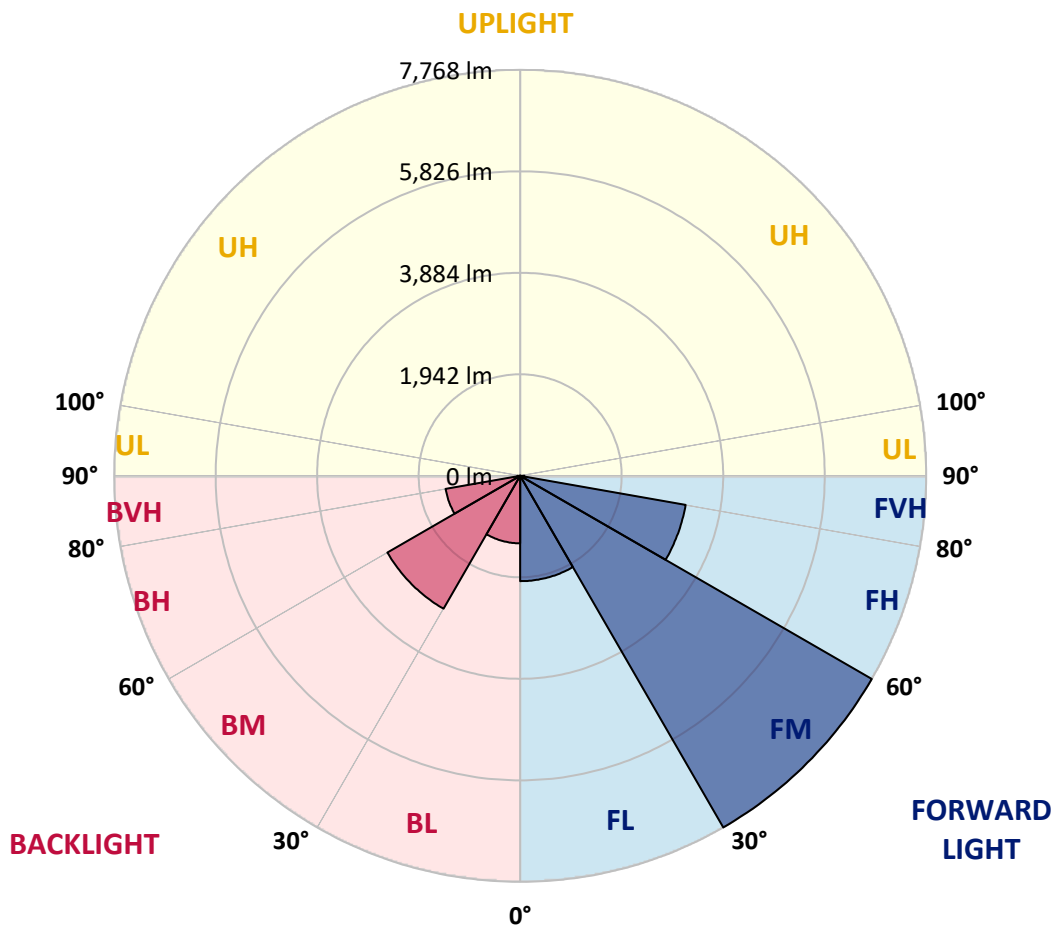
CATALOG NUMBER: ARCH3-130-727-U-T2R

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2016.3 | 10.7      |                         |      |         |
| FM   | (30°-60°)   | 7767.9 | 41.3      |                         |      |         |
| FH   | (60°-80°)   | 3213.9 | 17.1      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 77.9   | 0.4       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1291.2 | 6.9       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2934.1 | 15.6      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1449.3 | 7.7       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 51.3   | 0.3       |                         |      | 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 Medium



REPORT NUMBER: P836028

CATALOG NUMBER: ARCH3-130-727-U-T2R

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 82°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2702.8 | 2702.8 | 2702.8 | 2702.8 | 2702.8 | 2702.8 | 2702.8 | 2702.8 | 2702.8 | 2702.8 | 2702.8 |
| 2.5°  | 2825.6 | 2825.6 | 2847.5 | 2847.5 | 2828.4 | 2798.3 | 2790.1 | 2757.4 | 2727.3 | 2727.3 | 2730.1 |
| 5°    | 3095.9 | 3093.2 | 3109.6 | 3087.7 | 3041.3 | 2981.2 | 2940.3 | 2869.3 | 2809.3 | 2790.1 | 2787.4 |
| 7.5°  | 3426.2 | 3423.5 | 3431.7 | 3396.2 | 3308.9 | 3210.6 | 3128.7 | 3014.0 | 2915.7 | 2874.8 | 2863.9 |
| 10°   | 3794.8 | 3792.1 | 3783.9 | 3723.8 | 3606.4 | 3453.5 | 3330.7 | 3172.4 | 3024.9 | 2959.4 | 2945.8 |
| 12.5° | 4218.0 | 4212.5 | 4193.4 | 4106.0 | 3945.0 | 3748.4 | 3570.9 | 3366.2 | 3169.6 | 3079.5 | 3049.5 |
| 15°   | 4690.3 | 4682.1 | 4646.6 | 4540.1 | 4324.4 | 4076.0 | 3846.7 | 3584.6 | 3344.3 | 3227.0 | 3186.0 |
| 17.5° | 5187.1 | 5187.1 | 5132.5 | 4974.2 | 4734.0 | 4425.5 | 4141.5 | 3808.5 | 3527.3 | 3382.6 | 3333.4 |
| 20°   | 5692.2 | 5689.5 | 5621.2 | 5430.1 | 5146.2 | 4791.3 | 4430.9 | 4065.1 | 3715.6 | 3540.9 | 3480.9 |
| 22.5° | 6224.6 | 6219.1 | 6134.5 | 5916.1 | 5577.6 | 5176.2 | 4755.8 | 4319.0 | 3923.1 | 3712.9 | 3636.5 |
| 25°   | 6836.1 | 6827.9 | 6724.2 | 6456.6 | 6055.3 | 5602.1 | 5121.6 | 4616.6 | 4160.6 | 3904.0 | 3813.9 |
| 27.5° | 7485.9 | 7475.0 | 7352.1 | 7040.9 | 6601.3 | 6055.3 | 5525.7 | 4960.6 | 4422.7 | 4117.0 | 4015.9 |
| 30°   | 8064.7 | 8056.5 | 7922.7 | 7603.3 | 7098.2 | 6505.8 | 5910.6 | 5304.5 | 4698.5 | 4343.6 | 4218.0 |
| 32.5° | 8501.5 | 8501.5 | 8381.3 | 8067.4 | 7543.2 | 6937.1 | 6298.3 | 5629.4 | 4985.1 | 4586.5 | 4439.1 |
| 35°   | 8766.3 | 8774.5 | 8670.7 | 8419.6 | 7925.4 | 7343.9 | 6699.6 | 6011.6 | 5290.9 | 4845.9 | 4687.5 |
| 37.5° | 8804.5 | 8831.8 | 8771.7 | 8602.5 | 8190.2 | 7682.4 | 7092.7 | 6380.2 | 5607.6 | 5108.0 | 4930.5 |
| 40°   | 8627.0 | 8646.2 | 8648.9 | 8583.4 | 8299.4 | 7925.4 | 7439.5 | 6770.6 | 5943.4 | 5383.7 | 5179.0 |
| 42.5° | 8272.1 | 8285.8 | 8310.4 | 8329.5 | 8220.3 | 8031.9 | 7704.3 | 7133.7 | 6301.0 | 5664.9 | 5424.7 |
| 45°   | 7813.5 | 7810.8 | 7851.7 | 7933.6 | 7928.1 | 7971.8 | 7851.7 | 7464.0 | 6672.3 | 5984.3 | 5697.7 |
| 47.5° | 7128.2 | 7114.6 | 7259.3 | 7444.9 | 7537.7 | 7742.5 | 7854.4 | 7723.4 | 7076.4 | 6336.5 | 6008.9 |
| 50°   | 6055.3 | 6041.7 | 6358.4 | 6795.2 | 7068.2 | 7379.4 | 7704.3 | 7879.0 | 7499.5 | 6732.4 | 6347.4 |
| 52.5° | 4750.3 | 4736.7 | 5138.0 | 5902.4 | 6497.6 | 6950.8 | 7401.2 | 7914.5 | 7900.8 | 7174.6 | 6729.6 |
| 55°   | 3532.7 | 3521.8 | 3912.2 | 4739.4 | 5703.1 | 6453.9 | 7030.0 | 7821.7 | 8277.6 | 7682.4 | 7193.8 |
| 57.5° | 2489.8 | 2484.4 | 2822.9 | 3508.2 | 4682.1 | 5847.8 | 6672.3 | 7641.5 | 8624.3 | 8233.9 | 7717.9 |
| 60°   | 1747.3 | 1739.1 | 1984.8 | 2514.4 | 3540.9 | 4933.3 | 6317.4 | 7401.2 | 8883.7 | 8777.2 | 8274.9 |
| 62.5° | 1176.7 | 1171.2 | 1345.9 | 1788.2 | 2514.4 | 3797.5 | 5779.6 | 7240.2 | 9031.1 | 9323.2 | 8837.3 |
| 65°   | 892.7  | 890.0  | 969.2  | 1212.2 | 1780.0 | 2727.3 | 4925.1 | 7221.1 | 9050.2 | 9732.7 | 9315.0 |
| 67.5° | 720.7  | 723.5  | 767.2  | 906.4  | 1231.3 | 1938.4 | 3819.4 | 7100.9 | 8949.2 | 9872.0 | 9547.1 |
| 70°   | 589.7  | 589.7  | 608.8  | 701.6  | 909.1  | 1307.7 | 2667.3 | 6554.9 | 8668.0 | 9508.9 | 9271.3 |
| 72.5° | 450.5  | 453.2  | 513.3  | 567.9  | 685.2  | 917.3  | 1709.0 | 5424.7 | 8004.6 | 8384.1 | 8203.9 |
| 75°   | 357.6  | 354.9  | 390.4  | 466.8  | 532.4  | 655.2  | 1048.4 | 3890.4 | 6811.5 | 6552.2 | 6437.5 |
| 77.5° | 256.6  | 253.9  | 281.2  | 346.7  | 404.1  | 464.1  | 625.2  | 1962.9 | 3704.7 | 3404.4 | 3319.8 |
| 80°   | 174.7  | 169.3  | 193.8  | 240.2  | 267.5  | 273.0  | 305.8  | 753.5  | 1616.2 | 1523.4 | 1504.3 |
| 82.5° | 90.1   | 90.1   | 103.7  | 136.5  | 139.2  | 142.0  | 136.5  | 243.0  | 535.1  | 499.6  | 477.8  |
| 85°   | 35.5   | 35.5   | 38.2   | 46.4   | 46.4   | 49.1   | 49.1   | 62.8   | 57.3   | 54.6   | 51.9   |
| 87.5° | 2.7    | 2.7    | 5.5    | 5.5    | 8.2    | 8.2    | 8.2    | 10.9   | 13.7   | 13.7   | 13.7   |
| 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: P836028

CATALOG NUMBER: ARCH3-130-727-U-T2R

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2702.8 | 2702.8 | 2702.8 | 2702.8 | 2702.8 | 2702.8 | 2702.8 | 2702.8 | 2702.8 | 2702.8 | 2702.8 |
| 2.5°  | 2724.6 | 2713.7 | 2678.2 | 2670.0 | 2664.6 | 2656.4 | 2659.1 | 2640.0 | 2631.8 | 2634.5 | 2623.6 |
| 5°    | 2773.8 | 2754.6 | 2711.0 | 2691.9 | 2686.4 | 2678.2 | 2686.4 | 2672.7 | 2659.1 | 2664.6 | 2659.1 |
| 7.5°  | 2842.0 | 2814.7 | 2760.1 | 2741.0 | 2738.3 | 2730.1 | 2741.0 | 2730.1 | 2719.2 | 2724.6 | 2713.7 |
| 10°   | 2913.0 | 2877.5 | 2817.4 | 2798.3 | 2798.3 | 2795.6 | 2806.5 | 2790.1 | 2779.2 | 2782.0 | 2776.5 |
| 12.5° | 3016.7 | 2970.3 | 2904.8 | 2888.4 | 2880.2 | 2888.4 | 2891.2 | 2869.3 | 2850.2 | 2852.9 | 2844.7 |
| 15°   | 3142.3 | 3090.4 | 3019.5 | 2994.9 | 2989.4 | 2986.7 | 2975.8 | 2948.5 | 2923.9 | 2921.2 | 2913.0 |
| 17.5° | 3278.8 | 3213.3 | 3128.7 | 3104.1 | 3079.5 | 3071.3 | 3044.0 | 3008.5 | 2970.3 | 2970.3 | 2959.4 |
| 20°   | 3409.9 | 3336.2 | 3235.1 | 3199.7 | 3164.2 | 3131.4 | 3085.0 | 3027.7 | 2978.5 | 2970.3 | 2959.4 |
| 22.5° | 3551.8 | 3464.5 | 3347.1 | 3295.2 | 3232.4 | 3166.9 | 3087.7 | 3011.3 | 2948.5 | 2934.8 | 2926.6 |
| 25°   | 3710.2 | 3601.0 | 3461.7 | 3385.3 | 3284.3 | 3183.3 | 3065.9 | 2967.6 | 2893.9 | 2872.0 | 2866.6 |
| 27.5° | 3884.9 | 3753.9 | 3584.6 | 3472.7 | 3325.2 | 3166.9 | 3016.7 | 2899.3 | 2809.3 | 2782.0 | 2773.8 |
| 30°   | 4062.4 | 3906.7 | 3696.5 | 3532.7 | 3325.2 | 3115.0 | 2926.6 | 2790.1 | 2686.4 | 2648.2 | 2642.7 |
| 32.5° | 4239.8 | 4065.1 | 3797.5 | 3565.5 | 3292.5 | 3027.7 | 2809.3 | 2648.2 | 2530.8 | 2484.4 | 2495.3 |
| 35°   | 4452.8 | 4239.8 | 3890.4 | 3579.1 | 3237.9 | 2921.2 | 2675.5 | 2487.1 | 2367.0 | 2326.0 | 2334.2 |
| 37.5° | 4673.9 | 4414.5 | 3964.1 | 3568.2 | 3161.4 | 2801.1 | 2525.3 | 2342.4 | 2192.3 | 2121.3 | 2129.5 |
| 40°   | 4865.0 | 4572.9 | 4015.9 | 3530.0 | 3063.1 | 2664.6 | 2377.9 | 2137.7 | 1930.2 | 1861.9 | 1853.7 |
| 42.5° | 5045.2 | 4690.3 | 4043.2 | 3472.7 | 2951.2 | 2506.2 | 2167.7 | 1859.2 | 1651.7 | 1567.1 | 1569.8 |
| 45°   | 5233.6 | 4804.9 | 4032.3 | 3396.2 | 2812.0 | 2320.6 | 1897.4 | 1586.2 | 1403.3 | 1326.8 | 1329.5 |
| 47.5° | 5449.2 | 4927.8 | 4021.4 | 3314.3 | 2642.7 | 2080.3 | 1638.0 | 1345.9 | 1187.6 | 1133.0 | 1127.5 |
| 50°   | 5678.6 | 5064.3 | 4007.8 | 3213.3 | 2454.3 | 1812.8 | 1381.4 | 1122.1 | 988.3  | 952.8  | 944.6  |
| 52.5° | 5937.9 | 5211.7 | 3999.6 | 3093.2 | 2227.7 | 1528.8 | 1152.1 | 925.5  | 835.4  | 810.8  | 808.1  |
| 55°   | 6249.1 | 5383.7 | 4010.5 | 2948.5 | 1954.7 | 1261.3 | 958.3  | 797.2  | 737.1  | 723.5  | 720.7  |
| 57.5° | 6628.6 | 5604.9 | 4043.2 | 2779.2 | 1668.1 | 1029.2 | 816.3  | 718.0  | 679.8  | 668.9  | 668.9  |
| 60°   | 7040.9 | 5856.0 | 4103.3 | 2588.1 | 1381.4 | 849.1  | 723.5  | 655.2  | 638.8  | 652.5  | 652.5  |
| 62.5° | 7485.9 | 6150.9 | 4209.8 | 2356.1 | 1113.9 | 718.0  | 649.8  | 603.3  | 592.4  | 619.7  | 622.5  |
| 65°   | 7898.1 | 6437.5 | 4278.0 | 2077.6 | 884.5  | 622.5  | 592.4  | 551.5  | 556.9  | 584.2  | 581.5  |
| 67.5° | 8152.0 | 6675.0 | 4182.5 | 1728.1 | 701.6  | 551.5  | 532.4  | 496.9  | 510.5  | 532.4  | 535.1  |
| 70°   | 7996.4 | 6541.3 | 3710.2 | 1305.0 | 548.7  | 480.5  | 466.8  | 445.0  | 455.9  | 483.2  | 494.1  |
| 72.5° | 7234.7 | 5858.7 | 2885.7 | 881.8  | 442.3  | 404.1  | 409.5  | 398.6  | 412.2  | 436.8  | 461.4  |
| 75°   | 5872.4 | 4428.2 | 1935.6 | 565.1  | 349.5  | 344.0  | 352.2  | 344.0  | 349.5  | 374.0  | 387.7  |
| 77.5° | 3065.9 | 2159.5 | 963.7  | 352.2  | 259.4  | 267.5  | 281.2  | 283.9  | 300.3  | 305.8  | 311.2  |
| 80°   | 1430.6 | 971.9  | 401.3  | 196.6  | 172.0  | 188.4  | 215.7  | 218.4  | 223.9  | 232.1  | 234.8  |
| 82.5° | 466.8  | 292.1  | 185.6  | 106.5  | 98.3   | 106.5  | 139.2  | 166.5  | 169.3  | 185.6  | 185.6  |
| 85°   | 49.1   | 30.0   | 41.0   | 43.7   | 38.2   | 46.4   | 62.8   | 60.1   | 27.3   | 16.4   | 16.4   |
| 87.5° | 13.7   | 10.9   | 13.7   | 13.7   | 10.9   | 10.9   | 8.2    | 2.7    | 0.0    | 0.0    | 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)