

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: P1211356

Luminaire Tested: **ARCH4-250-730-U-T2RE-HSS**

Issue Date: 11/5/2025

### Test Information

Test Method: LM-79-08  
Report Number: P1211356  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/5/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH4-250-730-U-T2RE-HSS  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 975mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II  
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 25541 lumens  
Efficiency: N/A  
Efficacy: 102.4 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 249.5  
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



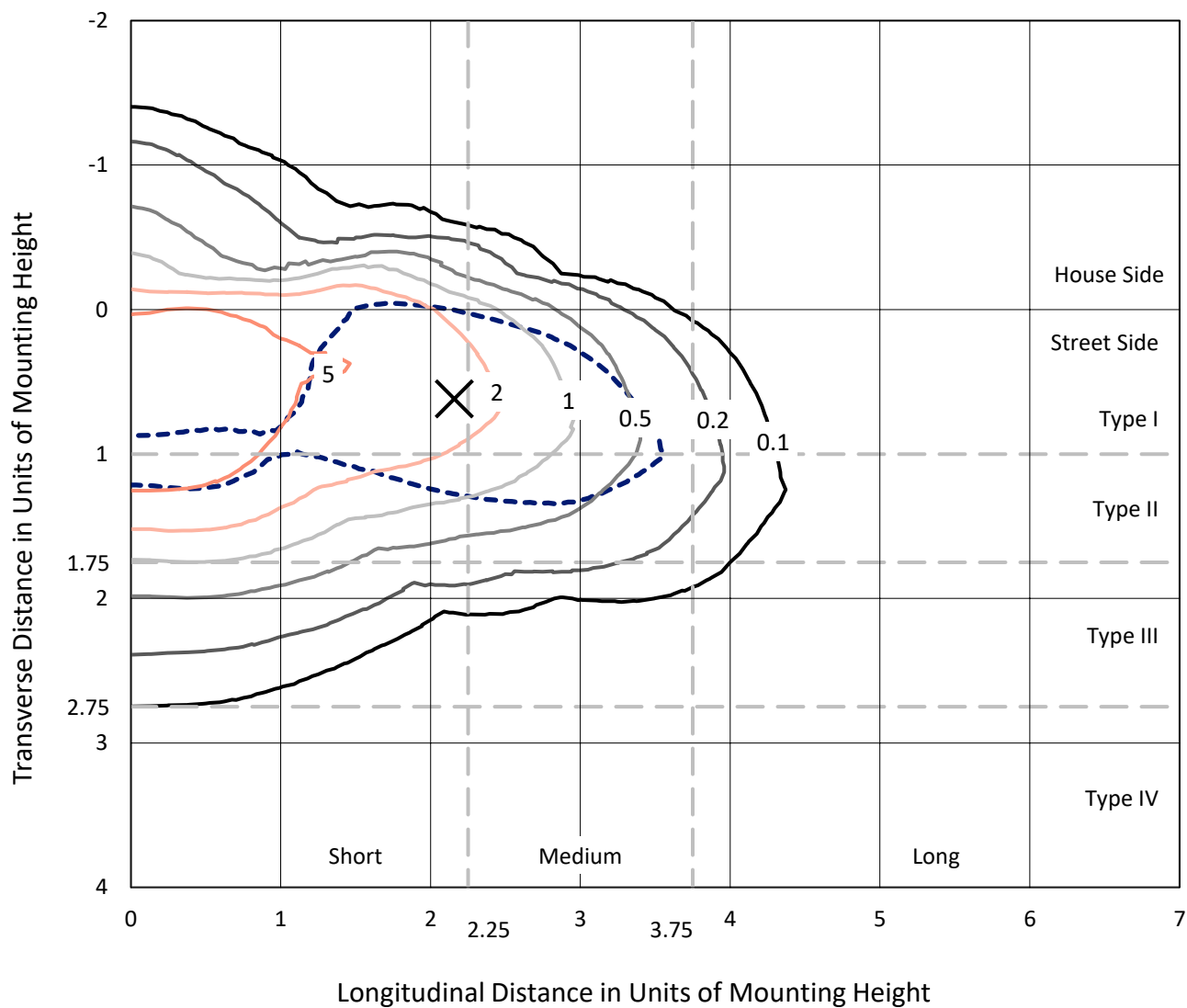
REPORT NUMBER: P1211356

CATALOG NUMBER: ARCH4-250-730-U-T2RE-HSS

## Iso-Footcandle Lines of Horizontal Illumination

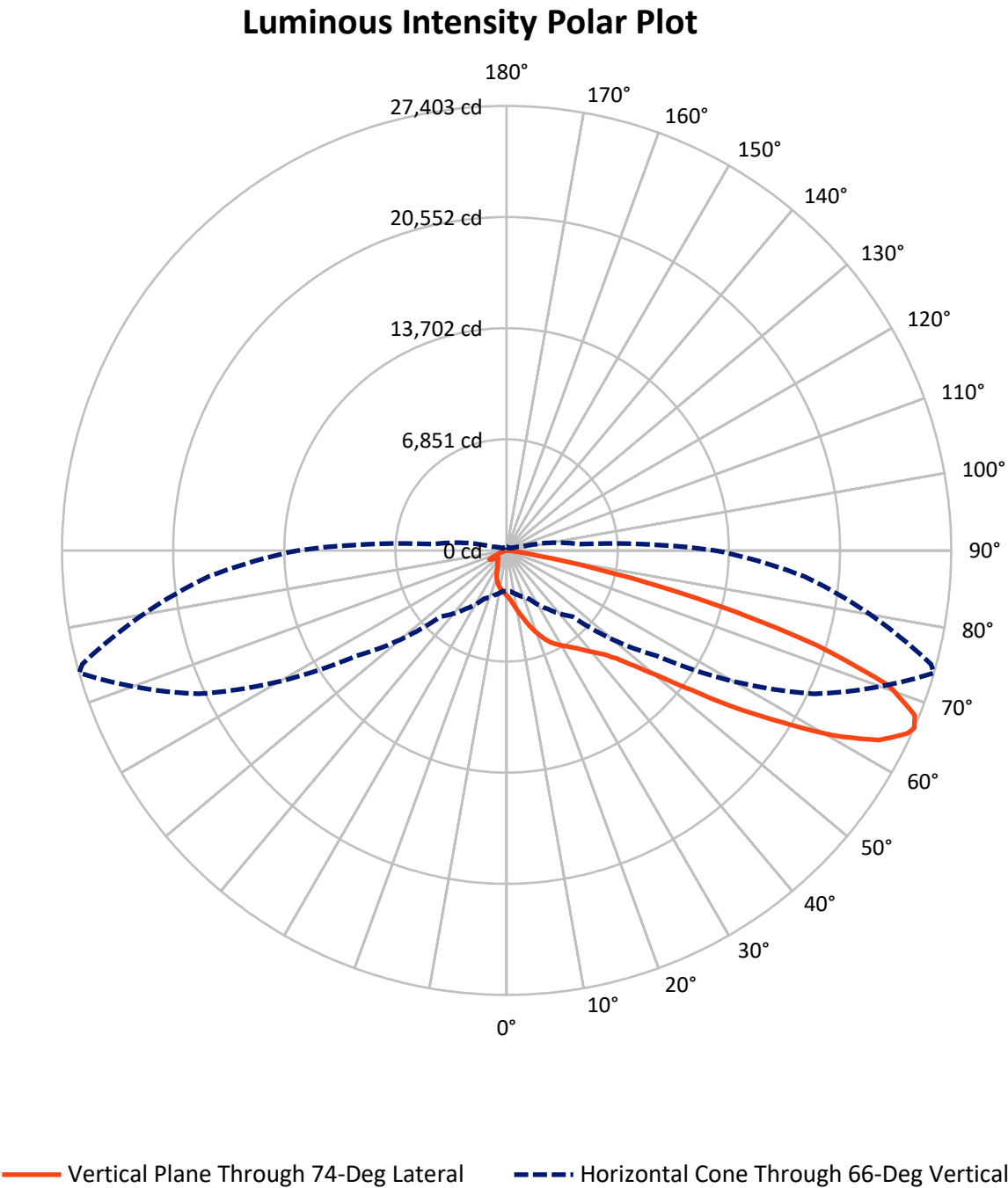
× Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc  
Type II - Short - N/A

REPORT NUMBER: P1211356  
CATALOG NUMBER: ARCH4-250-730-U-T2RE-HSS



REPORT NUMBER: P1211356

CATALOG NUMBER: ARCH4-250-730-U-T2RE-HSS

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2503.8   | 0.0    | 2503.8  |
|                    | % Fixture | 9.8      | 0.0    | 9.8     |
| <b>Street Side</b> | Lumens    | 23037.2  | 0.0    | 23037.2 |
|                    | % Fixture | 90.2     | 0.0    | 90.2    |
| <b>Total</b>       | Lumens    | 25541.0  | 0.0    | 25541.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 272.1   | 1.1       |
| 10°-20°   | 872.4   | 3.4       |
| 20°-30°   | 1664.9  | 6.5       |
| 30°-40°   | 2918.2  | 11.4      |
| 40°-50°   | 5004.0  | 19.6      |
| 50°-60°   | 6508.0  | 25.5      |
| 60°-70°   | 5891.4  | 23.1      |
| 70°-80°   | 2273.2  | 8.9       |
| 80°-90°   | 136.8   | 0.5       |
| 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°    | 25541.0 | 100.0     |
| 0°-180°   | 25541.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P1211356

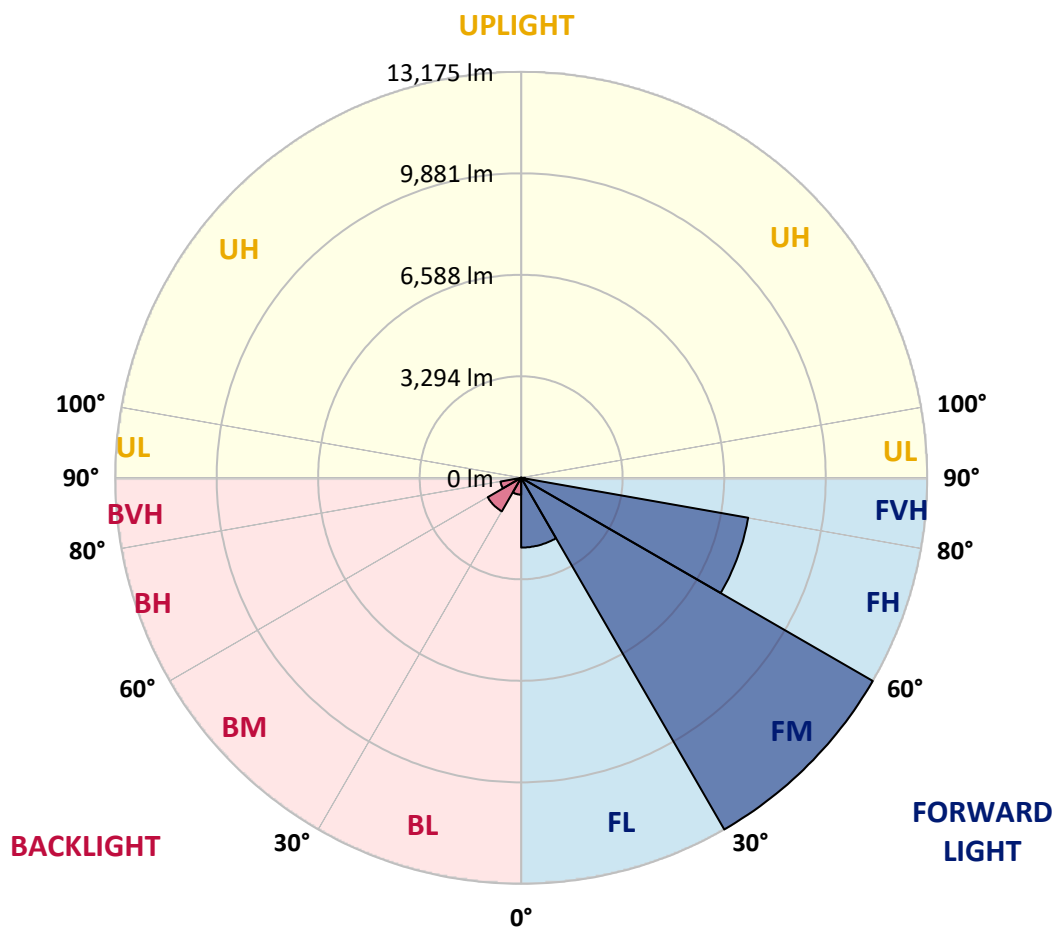
CATALOG NUMBER: ARCH4-250-730-U-T2RE-HSS

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2263.3  | 8.9       |                         |      |         |
| FM   | (30°-60°)   | 13175.3 | 51.6      |                         |      |         |
| FH   | (60°-80°)   | 7480.1  | 29.3      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 118.5   | 0.5       |                         |      | G2/225  |
| BL   | (0°-30°)    | 546.2   | 2.1       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1254.8  | 4.9       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 684.5   | 2.7       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 18.3    | 0.1       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type II Short



REPORT NUMBER: P1211356

CATALOG NUMBER: ARCH4-250-730-U-T2RE-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 74°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2788.0  | 2788.0  | 2788.0  | 2788.0  | 2788.0  | 2788.0  | 2788.0  | 2788.0  | 2788.0  | 2788.0  | 2788.0  |
| 2.5°  | 3347.5  | 3319.9  | 3269.5  | 3264.9  | 3223.6  | 3173.2  | 3086.1  | 2994.4  | 2930.2  | 2921.0  | 2843.0  |
| 5°    | 4007.8  | 3994.0  | 3943.6  | 3911.5  | 3833.5  | 3714.3  | 3512.5  | 3310.8  | 3141.1  | 3122.8  | 2948.5  |
| 7.5°  | 4182.0  | 4191.2  | 4200.4  | 4232.5  | 4205.0  | 4149.9  | 3998.6  | 3714.3  | 3448.3  | 3407.1  | 3104.4  |
| 10°   | 4209.5  | 4200.4  | 4200.4  | 4241.6  | 4319.6  | 4397.6  | 4379.2  | 4136.2  | 3792.3  | 3741.8  | 3319.9  |
| 12.5° | 4507.6  | 4521.4  | 4489.3  | 4470.9  | 4457.2  | 4498.4  | 4636.0  | 4530.5  | 4154.5  | 4113.2  | 3581.3  |
| 15°   | 4892.8  | 4888.2  | 4842.4  | 4842.4  | 4801.1  | 4732.3  | 4819.4  | 4897.4  | 4590.1  | 4539.7  | 3879.4  |
| 17.5° | 5172.5  | 5190.9  | 5186.3  | 5213.8  | 5200.0  | 5108.3  | 5062.5  | 5223.0  | 5039.5  | 4975.3  | 4218.7  |
| 20°   | 5397.2  | 5447.6  | 5466.0  | 5553.1  | 5594.4  | 5530.2  | 5411.0  | 5511.8  | 5470.6  | 5411.0  | 4562.6  |
| 22.5° | 5635.7  | 5676.9  | 5709.0  | 5860.3  | 5975.0  | 5961.2  | 5809.9  | 5787.0  | 5887.9  | 5832.8  | 4902.0  |
| 25°   | 5874.1  | 5892.4  | 5988.7  | 6172.2  | 6355.6  | 6401.4  | 6245.5  | 6066.7  | 6263.9  | 6213.4  | 5204.6  |
| 27.5° | 6135.5  | 6144.7  | 6259.3  | 6484.0  | 6740.8  | 6837.1  | 6713.3  | 6383.1  | 6552.8  | 6552.8  | 5479.7  |
| 30°   | 6612.4  | 6704.1  | 6749.9  | 6951.7  | 7176.4  | 7309.4  | 7162.6  | 6717.8  | 6809.6  | 6850.8  | 5768.6  |
| 32.5° | 7639.5  | 7653.3  | 7639.5  | 7726.7  | 7772.5  | 7850.5  | 7680.8  | 7093.9  | 7070.9  | 7116.8  | 6052.9  |
| 35°   | 9207.8  | 9152.8  | 9006.0  | 8877.6  | 8611.7  | 8464.9  | 8244.8  | 7575.3  | 7391.9  | 7456.1  | 6332.7  |
| 37.5° | 11110.8 | 11032.9 | 10698.1 | 10303.8 | 9735.1  | 9148.2  | 8873.1  | 8162.3  | 7800.0  | 7882.6  | 6635.3  |
| 40°   | 12926.7 | 12876.3 | 12477.3 | 11991.2 | 11019.1 | 10014.9 | 9432.5  | 8657.5  | 8254.0  | 8286.1  | 6942.5  |
| 42.5° | 14421.6 | 14412.4 | 14077.7 | 13568.7 | 12321.4 | 10950.3 | 10092.8 | 9143.6  | 8730.9  | 8781.3  | 7263.5  |
| 45°   | 15554.2 | 15467.1 | 15219.5 | 14852.6 | 13582.4 | 11922.5 | 10890.7 | 9881.9  | 9496.7  | 9556.3  | 7745.0  |
| 47.5° | 15554.2 | 15568.0 | 15728.5 | 15691.8 | 14462.9 | 12835.0 | 11762.0 | 10812.8 | 10629.3 | 10684.4 | 8538.3  |
| 50°   | 14288.6 | 14417.0 | 15132.4 | 15733.1 | 14921.4 | 13545.7 | 12702.0 | 11977.5 | 12165.5 | 12248.0 | 9923.2  |
| 52.5° | 11784.9 | 12000.4 | 13243.1 | 14614.2 | 14582.1 | 13903.4 | 13674.1 | 13458.6 | 14302.4 | 14449.1 | 11968.3 |
| 55°   | 8955.6  | 9097.8  | 10716.5 | 12518.6 | 13105.5 | 13609.9 | 14522.5 | 15338.7 | 17131.7 | 17099.6 | 14045.6 |
| 57.5° | 6690.3  | 6823.3  | 8217.3  | 10216.6 | 10991.6 | 12339.7 | 14958.1 | 17489.3 | 19938.0 | 20061.8 | 15994.4 |
| 60°   | 4920.3  | 5021.2  | 6208.8  | 7850.5  | 8969.4  | 10395.5 | 14783.8 | 19607.9 | 23170.8 | 23028.7 | 17714.0 |
| 62.5° | 3640.9  | 3696.0  | 4553.5  | 5621.9  | 7107.6  | 8469.5  | 13687.9 | 21056.9 | 25752.5 | 25463.6 | 18672.4 |
| 65°   | 2815.5  | 2833.9  | 3278.7  | 3847.3  | 5167.9  | 6584.9  | 12055.4 | 21277.0 | 27178.6 | 26871.4 | 18654.1 |
| 66°   | 2508.3  | 2522.1  | 2847.6  | 3287.8  | 4397.6  | 5764.0  | 11340.1 | 20923.9 | 27403.3 | 27077.7 | 18424.8 |
| 67.5° | 2104.8  | 2095.6  | 2288.2  | 2577.1  | 3301.6  | 4448.0  | 10069.9 | 19892.2 | 27137.3 | 26972.3 | 17691.1 |
| 70°   | 1559.1  | 1563.7  | 1660.0  | 1728.8  | 1930.5  | 2462.4  | 7272.7  | 17255.5 | 25009.6 | 25000.5 | 15678.0 |
| 72.5° | 1155.6  | 1169.3  | 1242.7  | 1256.4  | 1206.0  | 1334.4  | 4191.2  | 13724.6 | 20006.8 | 20011.4 | 11720.7 |
| 75°   | 866.7   | 889.6   | 912.5   | 921.7   | 875.8   | 843.7   | 1893.8  | 9235.3  | 13160.6 | 13064.3 | 6635.3  |
| 77.5° | 660.3   | 669.5   | 687.8   | 674.1   | 664.9   | 582.4   | 788.7   | 4503.0  | 6497.7  | 5920.0  | 2150.6  |
| 80°   | 481.5   | 481.5   | 499.8   | 481.5   | 476.9   | 417.3   | 431.0   | 1444.5  | 1907.6  | 1586.6  | 463.1   |
| 82.5° | 302.6   | 298.1   | 311.8   | 307.2   | 298.1   | 266.0   | 252.2   | 403.5   | 440.2   | 394.4   | 224.7   |
| 85°   | 169.7   | 165.1   | 160.5   | 155.9   | 142.2   | 119.2   | 137.6   | 151.3   | 201.8   | 206.4   | 160.5   |
| 87.5° | 59.6    | 59.6    | 55.0    | 50.4    | 41.3    | 41.3    | 50.4    | 50.4    | 73.4    | 73.4    | 82.5    |
| 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: P1211356

CATALOG NUMBER: ARCH4-250-730-U-T2RE-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2788.0  | 2788.0 | 2788.0 | 2788.0 | 2788.0 | 2788.0 | 2788.0 | 2788.0 | 2788.0 | 2788.0 | 2788.0 |
| 2.5°  | 2806.4  | 2755.9 | 2682.6 | 2586.3 | 2517.5 | 2448.7 | 2375.3 | 2334.1 | 2274.4 | 2260.7 | 2279.0 |
| 5°    | 2856.8  | 2765.1 | 2581.7 | 2379.9 | 2205.7 | 2049.7 | 1903.0 | 1815.9 | 1728.8 | 1696.7 | 1710.4 |
| 7.5°  | 2962.3  | 2806.4 | 2494.5 | 2169.0 | 1880.1 | 1646.2 | 1472.0 | 1371.1 | 1293.1 | 1261.0 | 1270.2 |
| 10°   | 3118.2  | 2879.7 | 2412.0 | 1930.5 | 1559.1 | 1311.5 | 1164.7 | 1100.5 | 1054.7 | 1036.3 | 1040.9 |
| 12.5° | 3306.2  | 2985.2 | 2306.5 | 1692.1 | 1284.0 | 1068.4 | 999.7  | 985.9  | 976.7  | 967.6  | 972.1  |
| 15°   | 3517.1  | 3076.9 | 2182.7 | 1458.2 | 1068.4 | 949.2  | 926.3  | 921.7  | 917.1  | 917.1  | 917.1  |
| 17.5° | 3737.2  | 3159.5 | 2045.2 | 1238.1 | 930.9  | 875.8  | 862.1  | 862.1  | 862.1  | 866.7  | 866.7  |
| 20°   | 3943.6  | 3223.6 | 1884.7 | 1040.9 | 852.9  | 807.1  | 797.9  | 797.9  | 802.5  | 807.1  | 807.1  |
| 22.5° | 4145.3  | 3251.2 | 1696.7 | 903.4  | 788.7  | 747.4  | 733.7  | 733.7  | 733.7  | 738.3  | 738.3  |
| 25°   | 4319.6  | 3251.2 | 1508.6 | 816.2  | 733.7  | 692.4  | 674.1  | 669.5  | 674.1  | 674.1  | 674.1  |
| 27.5° | 4466.3  | 3237.4 | 1325.2 | 756.6  | 678.7  | 637.4  | 619.1  | 614.5  | 623.6  | 628.2  | 628.2  |
| 30°   | 4622.2  | 3219.1 | 1178.5 | 701.6  | 632.8  | 591.5  | 573.2  | 573.2  | 587.0  | 605.3  | 605.3  |
| 32.5° | 4773.6  | 3232.8 | 1063.9 | 655.7  | 587.0  | 554.9  | 536.5  | 541.1  | 568.6  | 596.1  | 596.1  |
| 35°   | 4934.1  | 3260.3 | 995.1  | 623.6  | 554.9  | 522.8  | 509.0  | 522.8  | 550.3  | 577.8  | 577.8  |
| 37.5° | 5094.6  | 3292.4 | 953.8  | 596.1  | 527.3  | 495.2  | 486.1  | 504.4  | 536.5  | 564.0  | 568.6  |
| 40°   | 5264.2  | 3319.9 | 907.9  | 568.6  | 509.0  | 472.3  | 467.7  | 486.1  | 527.3  | 554.9  | 559.4  |
| 42.5° | 5475.2  | 3375.0 | 852.9  | 545.7  | 490.7  | 444.8  | 449.4  | 463.1  | 504.4  | 545.7  | 550.3  |
| 45°   | 5887.9  | 3549.2 | 797.9  | 522.8  | 467.7  | 431.0  | 421.9  | 431.0  | 476.9  | 522.8  | 531.9  |
| 47.5° | 6662.8  | 3943.6 | 738.3  | 499.8  | 444.8  | 421.9  | 385.2  | 394.4  | 435.6  | 486.1  | 490.7  |
| 50°   | 8148.5  | 4782.7 | 706.2  | 476.9  | 426.5  | 389.8  | 348.5  | 348.5  | 380.6  | 426.5  | 426.5  |
| 52.5° | 10464.2 | 6286.8 | 724.5  | 458.6  | 403.5  | 357.7  | 316.4  | 311.8  | 330.2  | 362.3  | 362.3  |
| 55°   | 12963.4 | 7937.6 | 793.3  | 440.2  | 376.0  | 339.3  | 293.5  | 270.5  | 284.3  | 302.6  | 302.6  |
| 57.5° | 14944.3 | 8767.6 | 981.3  | 431.0  | 343.9  | 325.6  | 266.0  | 233.9  | 247.6  | 266.0  | 266.0  |
| 60°   | 15815.6 | 8281.5 | 1192.2 | 440.2  | 321.0  | 302.6  | 238.4  | 206.4  | 229.3  | 247.6  | 252.2  |
| 62.5° | 15109.4 | 6818.7 | 1279.4 | 417.3  | 288.9  | 270.5  | 233.9  | 192.6  | 220.1  | 233.9  | 238.4  |
| 65°   | 13582.4 | 5181.7 | 999.7  | 362.3  | 266.0  | 233.9  | 210.9  | 183.4  | 206.4  | 220.1  | 220.1  |
| 66°   | 12857.9 | 4516.8 | 852.9  | 334.7  | 256.8  | 220.1  | 201.8  | 183.4  | 201.8  | 210.9  | 215.5  |
| 67.5° | 11734.4 | 3563.0 | 632.8  | 293.5  | 238.4  | 201.8  | 188.0  | 174.3  | 192.6  | 201.8  | 201.8  |
| 70°   | 9175.7  | 2123.1 | 380.6  | 229.3  | 206.4  | 178.8  | 169.7  | 160.5  | 174.3  | 178.8  | 178.8  |
| 72.5° | 5745.7  | 1008.8 | 243.0  | 169.7  | 174.3  | 169.7  | 142.2  | 151.3  | 155.9  | 160.5  | 160.5  |
| 75°   | 2783.4  | 398.9  | 165.1  | 123.8  | 142.2  | 160.5  | 114.6  | 133.0  | 137.6  | 146.7  | 142.2  |
| 77.5° | 775.0   | 192.6  | 105.5  | 91.7   | 123.8  | 123.8  | 87.1   | 105.5  | 123.8  | 155.9  | 142.2  |
| 80°   | 224.7   | 123.8  | 68.8   | 68.8   | 87.1   | 87.1   | 59.6   | 73.4   | 82.5   | 91.7   | 96.3   |
| 82.5° | 155.9   | 82.5   | 45.9   | 50.4   | 50.4   | 55.0   | 36.7   | 36.7   | 45.9   | 45.9   | 50.4   |
| 85°   | 123.8   | 36.7   | 27.5   | 32.1   | 22.9   | 27.5   | 18.3   | 18.3   | 22.9   | 18.3   | 18.3   |
| 87.5° | 50.4    | 18.3   | 18.3   | 18.3   | 13.8   | 13.8   | 9.2    | 4.6    | 4.6    | 4.6    | 4.6    |
| 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)