

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: P799250

Luminaire Tested: **ARCH2-100-730-U-T2R-HSS**

Issue Date: 4/4/2024

### Test Information

Test Method: LM-79-08  
Report Number: P799250  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/4/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH2-100-730-U-T2R-HSS  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 760mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

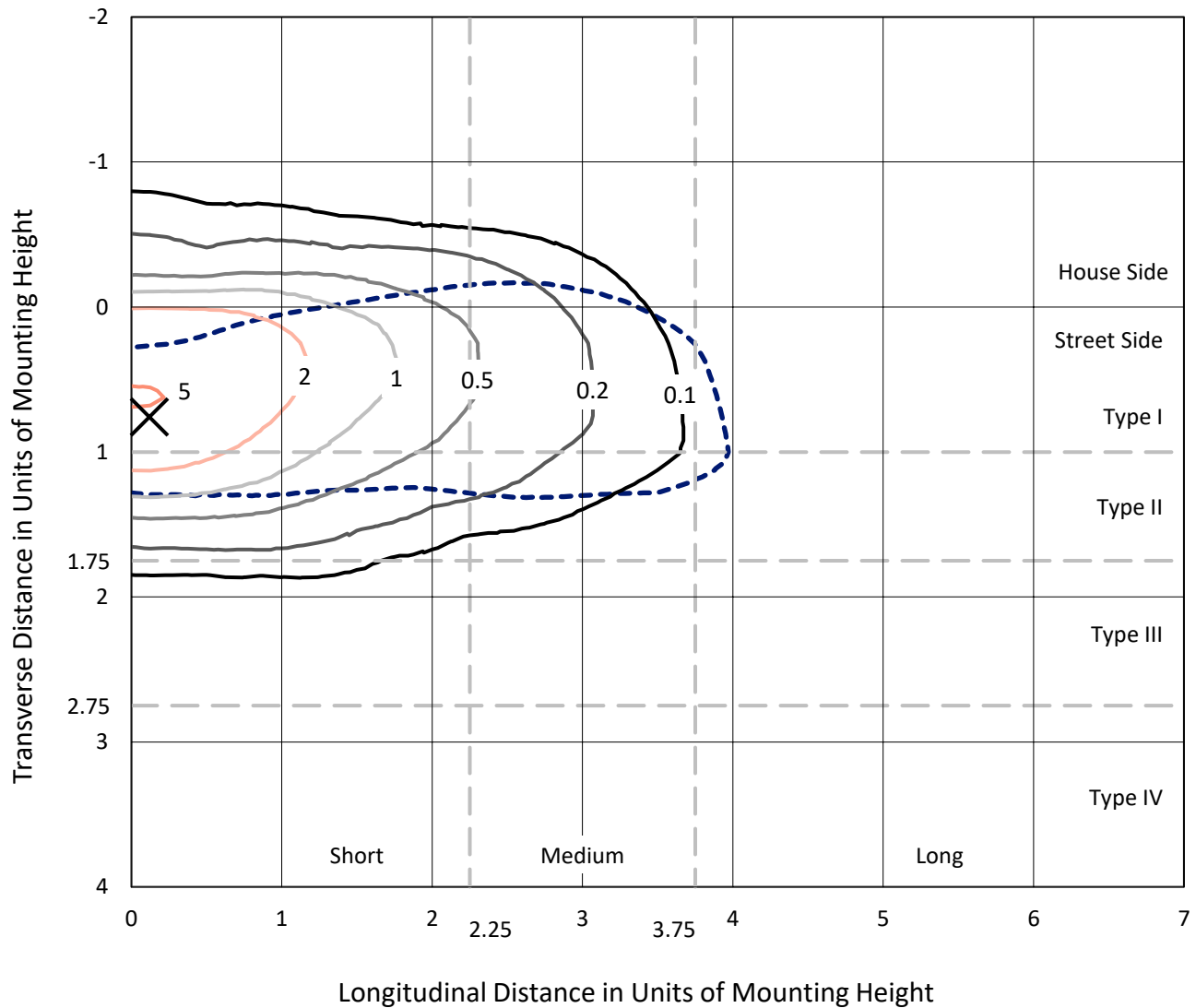
Lumens per Lamp: N/A  
Luminaire Lumens: 8989 lumens  
Efficiency: N/A  
Efficacy: 87.0 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 103.3  
Input Voltage (V): NR  
Input Current (Ain): 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



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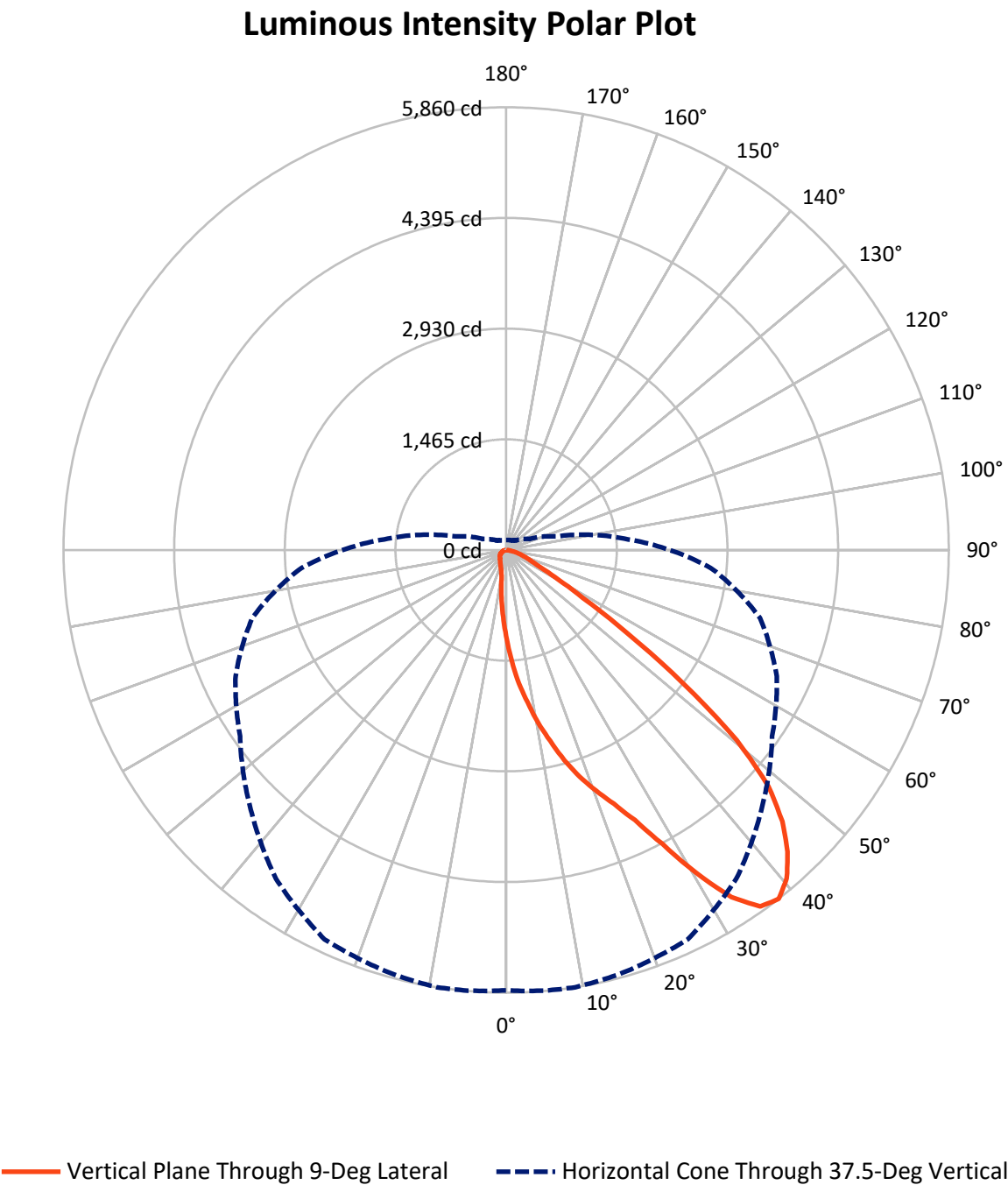
## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 --- 1/2 Max cd



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

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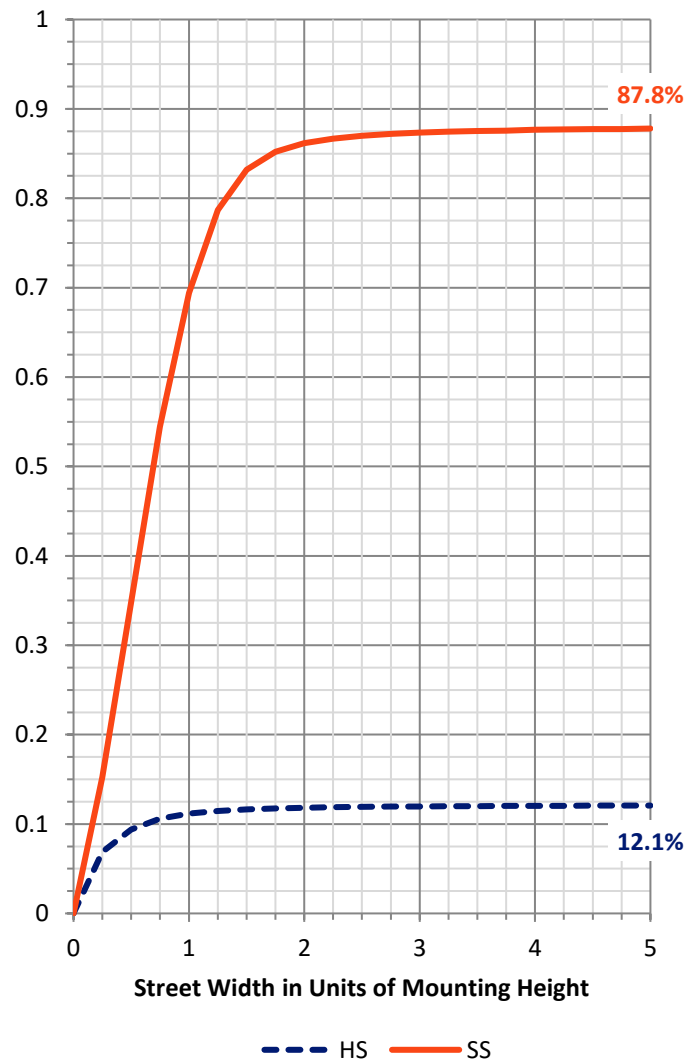
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1093.2   | 0.0    | 1093.2 |
|                    | % Fixture | 12.2     | 0.0    | 12.2   |
| <b>Street Side</b> | Lumens    | 7895.8   | 0.0    | 7895.8 |
|                    | % Fixture | 87.8     | 0.0    | 87.8   |
| <b>Total</b>       | Lumens    | 8989.0   | 0.0    | 8989.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 119.4  | 1.3       |
| 10°-20°   | 415.1  | 4.6       |
| 20°-30°   | 853.0  | 9.5       |
| 30°-40°   | 1507.7 | 16.8      |
| 40°-50°   | 2002.9 | 22.3      |
| 50°-60°   | 1899.6 | 21.1      |
| 60°-70°   | 1449.2 | 16.1      |
| 70°-80°   | 702.6  | 7.8       |
| 80°-90°   | 39.5   | 0.4       |
| 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°    | 8989.0 | 100.0     |
| 0°-180°   | 8989.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P799250

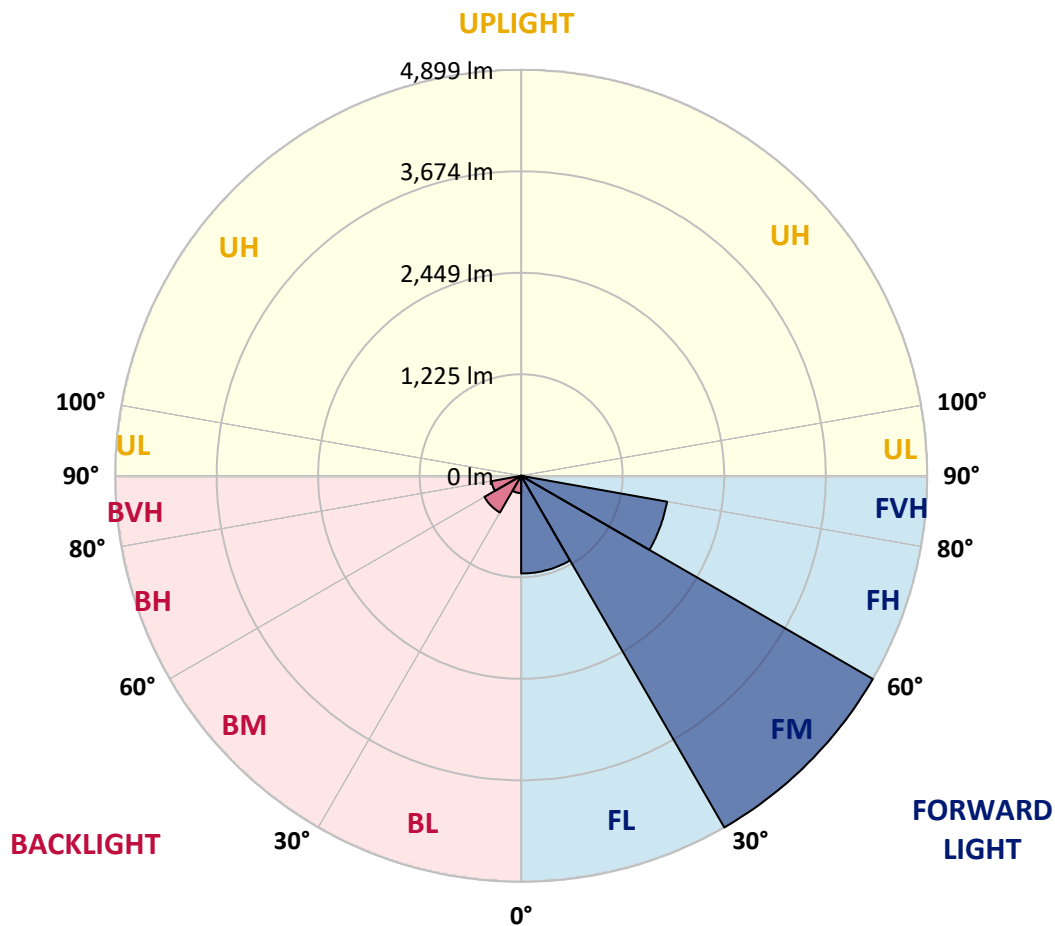
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1178.9 | 13.1      |                         |      |         |
| FM   | (30°-60°)   | 4898.6 | 54.5      |                         |      |         |
| FH   | (60°-80°)   | 1787.0 | 19.9      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 31.3   | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 208.6  | 2.3       | B1/500                  |      |         |
| BM   | (30°-60°)   | 511.6  | 5.7       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 364.8  | 4.1       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 8.2    | 0.1       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G1**

Type II Short



REPORT NUMBER: P799250

CATALOG NUMBER: ARCH2-100-730-U-T2R-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 9°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1188.2 | 1188.2 | 1188.2 | 1188.2 | 1188.2 | 1188.2 | 1188.2 | 1188.2 | 1188.2 | 1188.2 | 1188.2 |
| 2.5°  | 1472.4 | 1446.5 | 1476.1 | 1472.4 | 1446.5 | 1429.9 | 1378.3 | 1361.7 | 1300.8 | 1256.5 | 1217.8 |
| 5°    | 1775.0 | 1749.1 | 1775.0 | 1767.6 | 1730.7 | 1690.1 | 1605.2 | 1549.9 | 1441.0 | 1345.1 | 1258.4 |
| 7.5°  | 2025.9 | 2025.9 | 2037.0 | 2038.8 | 1994.5 | 1931.8 | 1826.6 | 1743.6 | 1590.5 | 1442.9 | 1304.5 |
| 10°   | 2297.1 | 2299.0 | 2323.0 | 2306.4 | 2247.3 | 2162.4 | 2029.6 | 1924.4 | 1739.9 | 1546.2 | 1348.8 |
| 12.5° | 2586.8 | 2588.7 | 2596.0 | 2588.7 | 2518.5 | 2409.7 | 2249.2 | 2110.8 | 1898.6 | 1664.3 | 1409.6 |
| 15°   | 2876.5 | 2878.3 | 2887.6 | 2874.6 | 2797.2 | 2669.8 | 2487.2 | 2317.4 | 2066.5 | 1797.1 | 1483.5 |
| 17.5° | 3147.7 | 3151.4 | 3158.8 | 3142.2 | 3061.0 | 2909.7 | 2723.4 | 2518.5 | 2245.5 | 1939.2 | 1566.5 |
| 20°   | 3391.3 | 3395.0 | 3400.5 | 3378.4 | 3297.2 | 3145.9 | 2944.8 | 2730.7 | 2428.1 | 2085.0 | 1656.9 |
| 22.5° | 3636.7 | 3640.4 | 3649.6 | 3620.1 | 3529.7 | 3356.2 | 3158.8 | 2937.4 | 2621.9 | 2245.5 | 1762.1 |
| 25°   | 3950.3 | 3954.0 | 3961.4 | 3919.0 | 3795.3 | 3592.4 | 3383.9 | 3156.9 | 2832.2 | 2426.3 | 1891.2 |
| 27.5° | 4409.8 | 4406.1 | 4406.1 | 4328.6 | 4116.4 | 3852.5 | 3610.8 | 3380.2 | 3059.2 | 2620.0 | 2033.3 |
| 30°   | 4978.0 | 4968.8 | 4963.3 | 4858.1 | 4555.5 | 4145.9 | 3843.3 | 3588.7 | 3276.9 | 2824.8 | 2186.4 |
| 32.5° | 5487.3 | 5487.3 | 5476.2 | 5365.5 | 5044.5 | 4540.8 | 4090.6 | 3791.7 | 3487.2 | 3031.5 | 2345.1 |
| 35°   | 5788.0 | 5801.0 | 5795.4 | 5712.4 | 5478.1 | 4965.1 | 4424.5 | 4035.2 | 3708.6 | 3247.4 | 2535.2 |
| 37.5° | 5828.6 | 5854.5 | 5860.0 | 5810.2 | 5686.6 | 5312.0 | 4795.4 | 4299.1 | 3952.2 | 3479.8 | 2719.7 |
| 40°   | 5664.4 | 5719.8 | 5719.8 | 5712.4 | 5668.1 | 5476.2 | 5107.2 | 4605.3 | 4203.1 | 3721.5 | 2906.0 |
| 42.5° | 5411.6 | 5468.8 | 5461.5 | 5489.1 | 5478.1 | 5437.5 | 5282.5 | 4891.3 | 4454.0 | 3970.6 | 3075.8 |
| 45°   | 5081.4 | 5140.4 | 5125.7 | 5175.5 | 5197.6 | 5241.9 | 5264.0 | 5090.6 | 4701.3 | 4241.9 | 3265.8 |
| 47.5° | 4551.8 | 4651.5 | 4673.6 | 4762.2 | 4854.4 | 4992.8 | 5098.0 | 5162.6 | 4931.9 | 4533.4 | 3472.5 |
| 50°   | 3769.5 | 3909.7 | 3954.0 | 4140.4 | 4393.2 | 4679.1 | 4848.9 | 5074.0 | 5094.3 | 4832.3 | 3695.7 |
| 52.5° | 2699.4 | 2861.7 | 2930.0 | 3236.3 | 3756.6 | 4254.8 | 4561.1 | 4878.4 | 5157.0 | 5118.3 | 3937.4 |
| 55°   | 1745.5 | 1883.8 | 1950.3 | 2238.1 | 2930.0 | 3712.3 | 4221.6 | 4625.6 | 5122.0 | 5380.3 | 4214.2 |
| 57.5° | 1075.7 | 1155.0 | 1199.3 | 1446.5 | 2083.1 | 3016.7 | 3776.9 | 4393.2 | 5015.0 | 5607.2 | 4502.0 |
| 60°   | 725.1  | 771.2  | 793.4  | 909.6  | 1415.2 | 2254.7 | 3166.2 | 4149.6 | 4874.7 | 5760.4 | 4764.0 |
| 62.5° | 481.6  | 496.3  | 518.5  | 590.4  | 933.6  | 1583.1 | 2431.8 | 3714.2 | 4769.6 | 5769.6 | 4957.8 |
| 65°   | 372.7  | 380.1  | 389.3  | 420.7  | 575.7  | 1107.1 | 1710.4 | 3009.3 | 4612.7 | 5574.0 | 5018.6 |
| 67.5° | 293.4  | 300.7  | 311.8  | 328.4  | 417.0  | 751.0  | 1164.3 | 2204.9 | 4291.7 | 5267.7 | 4919.0 |
| 70°   | 230.6  | 236.2  | 243.6  | 258.3  | 324.7  | 544.3  | 769.4  | 1465.0 | 3644.0 | 4976.2 | 4605.3 |
| 72.5° | 182.7  | 188.2  | 195.6  | 210.3  | 263.8  | 398.5  | 527.7  | 913.3  | 2810.1 | 4620.1 | 4002.0 |
| 75°   | 143.9  | 147.6  | 153.1  | 167.9  | 212.2  | 310.0  | 357.9  | 546.1  | 1909.7 | 3968.8 | 3118.2 |
| 77.5° | 72.0   | 88.6   | 101.5  | 116.2  | 155.0  | 214.0  | 238.0  | 302.6  | 806.3  | 2037.0 | 1487.1 |
| 80°   | 42.4   | 51.7   | 55.4   | 64.6   | 101.5  | 129.2  | 129.2  | 121.8  | 254.6  | 782.3  | 607.0  |
| 82.5° | 24.0   | 33.2   | 35.1   | 36.9   | 60.9   | 73.8   | 59.0   | 44.3   | 51.7   | 262.0  | 177.1  |
| 85°   | 7.4    | 11.1   | 12.9   | 14.8   | 20.3   | 22.1   | 20.3   | 18.5   | 14.8   | 25.8   | 16.6   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 1.8    | 3.7    | 3.7    | 3.7    | 5.5    | 5.5    | 5.5    |
| 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: P799250

CATALOG NUMBER: ARCH2-100-730-U-T2R-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1188.2 | 1188.2 | 1188.2 | 1188.2 | 1188.2 | 1188.2 | 1188.2 | 1188.2 | 1188.2 | 1188.2 | 1188.2 |
| 2.5°  | 1195.6 | 1171.6 | 1125.5 | 1083.1 | 1042.5 | 1013.0 | 985.3  | 959.4  | 941.0  | 926.2  | 924.4  |
| 5°    | 1212.2 | 1164.3 | 1075.7 | 992.7  | 917.0  | 854.3  | 800.8  | 758.3  | 727.0  | 704.8  | 703.0  |
| 7.5°  | 1234.4 | 1160.6 | 1025.9 | 902.2  | 789.7  | 699.3  | 621.8  | 564.6  | 524.0  | 507.4  | 494.5  |
| 10°   | 1252.8 | 1156.9 | 976.1  | 811.8  | 664.2  | 549.8  | 457.6  | 400.4  | 370.9  | 359.8  | 354.3  |
| 12.5° | 1284.2 | 1160.6 | 933.6  | 728.8  | 555.4  | 420.7  | 350.6  | 319.2  | 306.3  | 297.1  | 295.2  |
| 15°   | 1330.3 | 1177.2 | 893.0  | 647.6  | 444.7  | 339.5  | 298.9  | 278.6  | 265.7  | 263.8  | 262.0  |
| 17.5° | 1376.4 | 1191.9 | 856.1  | 564.6  | 369.0  | 295.2  | 267.5  | 250.9  | 241.7  | 239.9  | 239.9  |
| 20°   | 1429.9 | 1210.4 | 815.5  | 485.3  | 315.5  | 265.7  | 243.6  | 230.6  | 219.6  | 217.7  | 217.7  |
| 22.5° | 1492.7 | 1236.2 | 776.8  | 415.1  | 280.5  | 243.6  | 225.1  | 210.3  | 201.1  | 199.3  | 199.3  |
| 25°   | 1577.6 | 1275.0 | 745.4  | 363.5  | 256.5  | 225.1  | 208.5  | 195.6  | 188.2  | 184.5  | 184.5  |
| 27.5° | 1671.7 | 1328.5 | 723.3  | 332.1  | 239.9  | 210.3  | 193.7  | 182.7  | 175.3  | 171.6  | 171.6  |
| 30°   | 1776.8 | 1387.5 | 708.5  | 319.2  | 230.6  | 197.4  | 182.7  | 171.6  | 162.4  | 160.5  | 160.5  |
| 32.5° | 1893.1 | 1455.8 | 699.3  | 321.0  | 228.8  | 188.2  | 171.6  | 160.5  | 153.1  | 149.5  | 149.5  |
| 35°   | 2022.2 | 1531.4 | 693.8  | 332.1  | 232.5  | 180.8  | 162.4  | 151.3  | 143.9  | 140.2  | 140.2  |
| 37.5° | 2166.1 | 1620.0 | 693.8  | 343.2  | 241.7  | 179.0  | 153.1  | 142.1  | 136.5  | 132.8  | 132.8  |
| 40°   | 2300.8 | 1714.1 | 701.1  | 356.1  | 250.9  | 179.0  | 145.8  | 136.5  | 129.2  | 125.5  | 125.5  |
| 42.5° | 2406.0 | 1767.6 | 706.7  | 369.0  | 256.5  | 177.1  | 138.4  | 129.2  | 123.6  | 119.9  | 119.9  |
| 45°   | 2525.9 | 1824.8 | 695.6  | 374.6  | 256.5  | 173.4  | 132.8  | 123.6  | 118.1  | 114.4  | 114.4  |
| 47.5° | 2658.8 | 1894.9 | 693.8  | 378.2  | 250.9  | 166.1  | 127.3  | 118.1  | 114.4  | 110.7  | 110.7  |
| 50°   | 2793.5 | 1972.4 | 697.4  | 376.4  | 243.6  | 155.0  | 119.9  | 114.4  | 108.9  | 105.2  | 105.2  |
| 52.5° | 2946.6 | 2053.6 | 704.8  | 372.7  | 226.9  | 142.1  | 114.4  | 108.9  | 103.3  | 99.6   | 97.8   |
| 55°   | 3116.4 | 2142.1 | 719.6  | 365.3  | 204.8  | 129.2  | 108.9  | 103.3  | 95.9   | 92.3   | 90.4   |
| 57.5° | 3311.9 | 2251.0 | 736.2  | 350.6  | 180.8  | 118.1  | 103.3  | 95.9   | 84.9   | 79.3   | 77.5   |
| 60°   | 3498.3 | 2374.6 | 754.6  | 315.5  | 156.8  | 107.0  | 97.8   | 86.7   | 75.6   | 72.0   | 70.1   |
| 62.5° | 3673.6 | 2496.4 | 763.9  | 252.8  | 132.8  | 97.8   | 92.3   | 79.3   | 68.3   | 64.6   | 62.7   |
| 65°   | 3786.1 | 2629.3 | 743.6  | 171.6  | 108.9  | 90.4   | 84.9   | 73.8   | 62.7   | 57.2   | 57.2   |
| 67.5° | 3793.5 | 2692.0 | 673.5  | 112.6  | 88.6   | 81.2   | 77.5   | 66.4   | 55.4   | 51.7   | 49.8   |
| 70°   | 3607.1 | 2597.9 | 514.8  | 88.6   | 73.8   | 70.1   | 70.1   | 59.0   | 48.0   | 44.3   | 42.4   |
| 72.5° | 3179.1 | 2300.8 | 328.4  | 72.0   | 62.7   | 59.0   | 59.0   | 49.8   | 42.4   | 36.9   | 35.1   |
| 75°   | 2509.3 | 1775.0 | 175.3  | 59.0   | 51.7   | 49.8   | 46.1   | 40.6   | 35.1   | 31.4   | 29.5   |
| 77.5° | 1153.2 | 782.3  | 81.2   | 42.4   | 38.7   | 38.7   | 35.1   | 29.5   | 27.7   | 24.0   | 24.0   |
| 80°   | 455.7  | 265.7  | 40.6   | 27.7   | 25.8   | 25.8   | 25.8   | 20.3   | 20.3   | 16.6   | 14.8   |
| 82.5° | 125.5  | 55.4   | 20.3   | 16.6   | 16.6   | 16.6   | 14.8   | 12.9   | 12.9   | 11.1   | 11.1   |
| 85°   | 12.9   | 9.2    | 9.2    | 9.2    | 9.2    | 7.4    | 7.4    | 5.5    | 3.7    | 3.7    | 3.7    |
| 87.5° | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    | 3.7    | 1.8    | 0.0    | 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)