

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: P1210847

Luminaire Tested: **ARCH3-90-730-U-T3RE**

Issue Date: 11/5/2025

### Test Information

Test Method: LM-79-08  
Report Number: P1210847  
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: ARCH3-90-730-U-T3RE  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 735mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY  
ILLUMINANCE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 14157 lumens  
Efficiency: N/A  
Efficacy: 152.1 lumens/watt  
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 93.1  
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

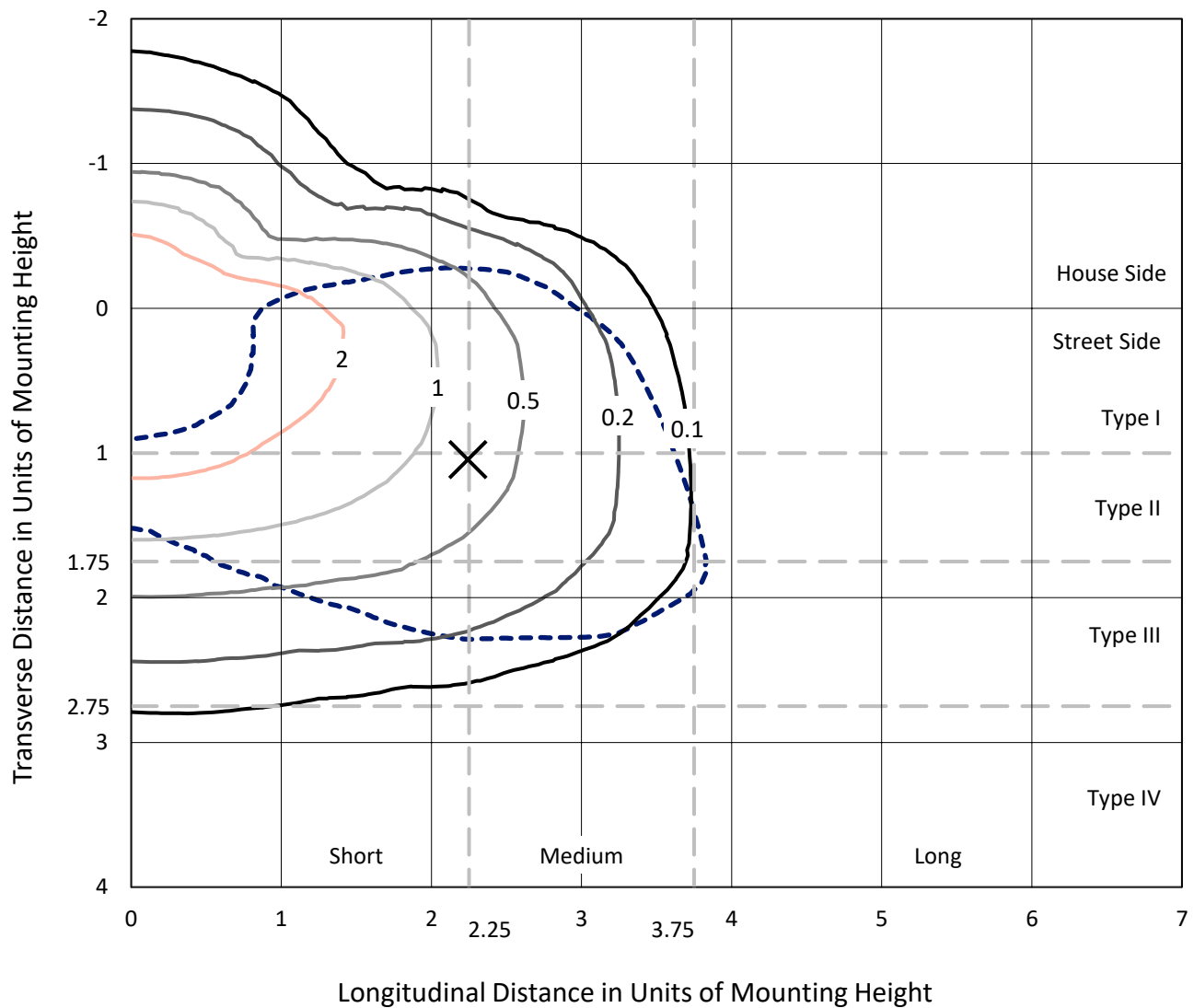


REPORT NUMBER: P1210847

CATALOG NUMBER: ARCH3-90-730-U-T3RE

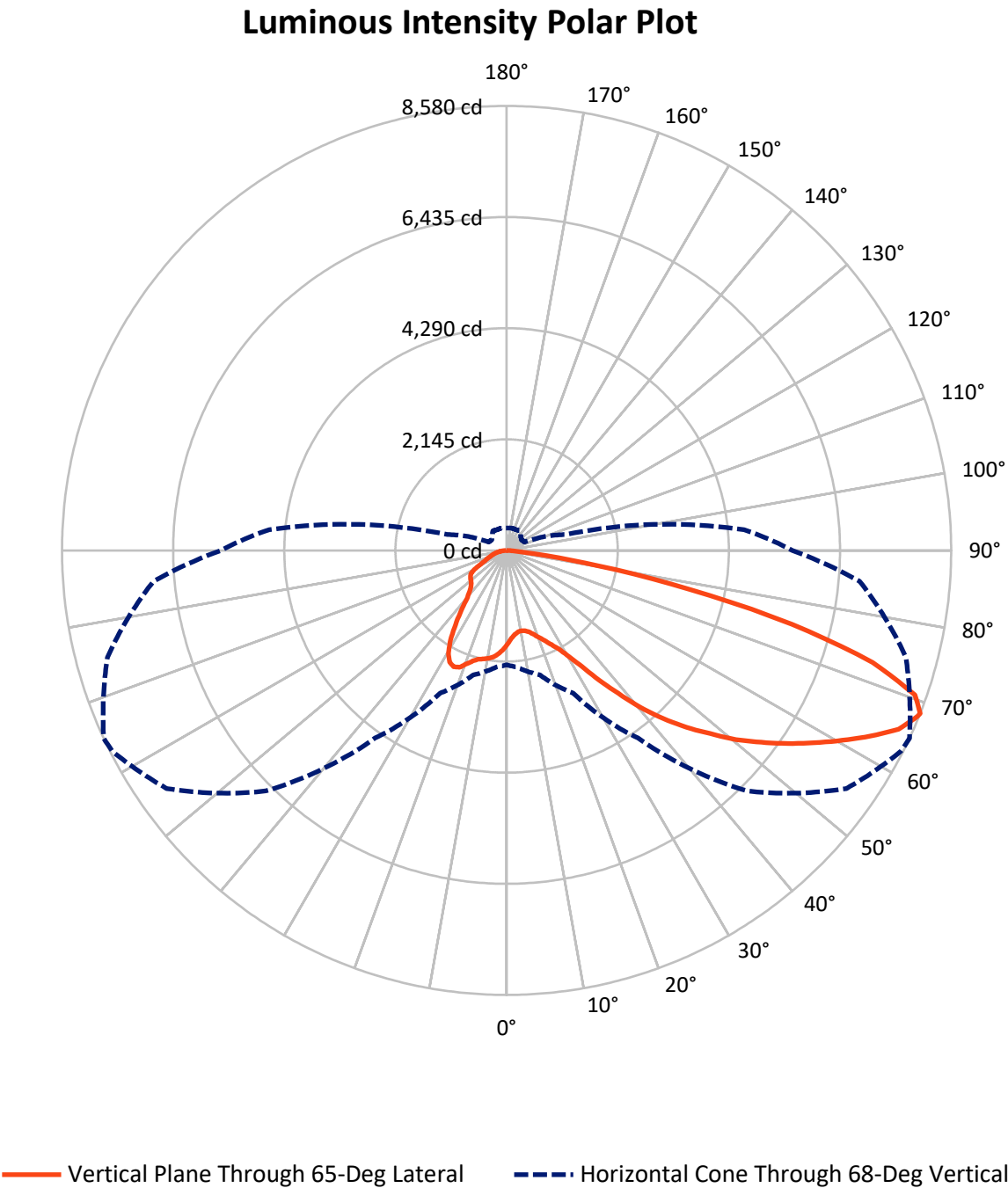
## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc  
Type III - Short - N/A

REPORT NUMBER: P1210847  
CATALOG NUMBER: ARCH3-90-730-U-T3RE



REPORT NUMBER: P1210847

CATALOG NUMBER: ARCH3-90-730-U-T3RE

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3470.9   | 0.0    | 3470.9  |
|                    | % Fixture | 24.5     | 0.0    | 24.5    |
| <b>Street Side</b> | Lumens    | 10686.1  | 0.0    | 10686.1 |
|                    | % Fixture | 75.5     | 0.0    | 75.5    |
| <b>Total</b>       | Lumens    | 14157.0  | 0.0    | 14157.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 172.9   | 1.2       |
| 10°-20°   | 562.9   | 4.0       |
| 20°-30°   | 1018.9  | 7.2       |
| 30°-40°   | 1602.8  | 11.3      |
| 40°-50°   | 2387.2  | 16.9      |
| 50°-60°   | 3131.5  | 22.1      |
| 60°-70°   | 3424.5  | 24.2      |
| 70°-80°   | 1694.6  | 12.0      |
| 80°-90°   | 161.6   | 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°    | 14157.0 | 100.0     |
| 0°-180°   | 14157.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P1210847

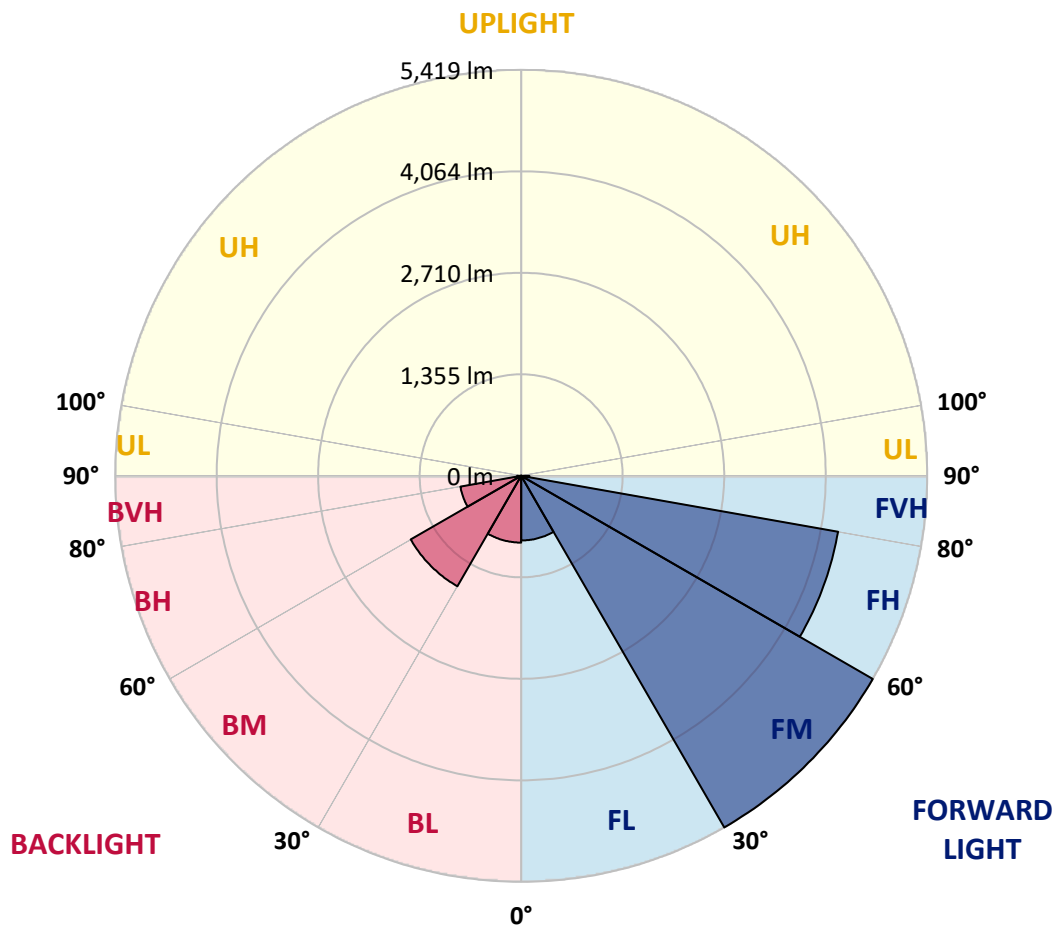
CATALOG NUMBER: ARCH3-90-730-U-T3RE

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 863.0  | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 5419.1 | 38.3      |                         |      |         |
| FH   | (60°-80°)   | 4295.3 | 30.3      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 108.7  | 0.8       |                         |      | G2/225  |
| BL   | (0°-30°)    | 891.7  | 6.3       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1702.4 | 12.0      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 823.8  | 5.8       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 52.9   | 0.4       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type III Short



REPORT NUMBER: P1210847

CATALOG NUMBER: ARCH3-90-730-U-T3RE

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 63°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1809.1 | 1809.1 | 1809.1 | 1809.1 | 1809.1 | 1809.1 | 1809.1 | 1809.1 | 1809.1 | 1809.1 | 1809.1 |
| 2.5°  | 1579.1 | 1575.4 | 1584.6 | 1593.7 | 1613.8 | 1637.5 | 1670.4 | 1697.7 | 1701.4 | 1752.5 | 1792.7 |
| 5°    | 1486.0 | 1480.5 | 1489.6 | 1500.6 | 1509.7 | 1538.9 | 1573.6 | 1613.8 | 1630.2 | 1705.0 | 1790.8 |
| 7.5°  | 1495.1 | 1493.3 | 1496.9 | 1493.3 | 1493.3 | 1506.1 | 1529.8 | 1569.9 | 1588.2 | 1677.7 | 1800.0 |
| 10°   | 1548.0 | 1551.7 | 1553.5 | 1542.6 | 1531.6 | 1526.1 | 1533.4 | 1560.8 | 1573.6 | 1679.5 | 1840.1 |
| 12.5° | 1635.7 | 1641.1 | 1643.0 | 1622.9 | 1608.3 | 1584.6 | 1571.8 | 1582.7 | 1591.9 | 1697.7 | 1896.7 |
| 15°   | 1754.3 | 1758.0 | 1745.2 | 1732.4 | 1695.9 | 1666.7 | 1635.7 | 1626.5 | 1630.2 | 1736.1 | 1960.6 |
| 17.5° | 1893.1 | 1887.6 | 1887.6 | 1856.6 | 1809.1 | 1763.5 | 1712.3 | 1705.0 | 1705.0 | 1798.1 | 2051.9 |
| 20°   | 2044.6 | 2050.1 | 2033.6 | 1991.6 | 1944.2 | 1873.0 | 1821.9 | 1789.0 | 1792.7 | 1869.3 | 2163.2 |
| 22.5° | 2263.6 | 2272.8 | 2229.0 | 2168.7 | 2095.7 | 2013.6 | 1940.5 | 1887.6 | 1889.4 | 1962.4 | 2278.3 |
| 25°   | 2499.1 | 2502.8 | 2475.4 | 2395.1 | 2296.5 | 2179.7 | 2082.9 | 2015.4 | 2013.6 | 2066.5 | 2426.1 |
| 27.5° | 2740.1 | 2756.5 | 2701.8 | 2625.1 | 2533.8 | 2387.8 | 2260.0 | 2168.7 | 2154.1 | 2225.3 | 2610.5 |
| 30°   | 2988.4 | 3008.5 | 2955.5 | 2880.7 | 2767.5 | 2643.4 | 2491.8 | 2386.0 | 2376.8 | 2471.8 | 2856.9 |
| 32.5° | 3238.5 | 3244.0 | 3202.0 | 3139.9 | 3037.7 | 2920.8 | 2798.5 | 2681.7 | 2672.6 | 2827.7 | 3176.4 |
| 35°   | 3442.9 | 3459.4 | 3430.2 | 3415.6 | 3340.7 | 3233.0 | 3114.3 | 3046.8 | 3070.5 | 3269.5 | 3590.8 |
| 37.5° | 3689.4 | 3705.8 | 3673.0 | 3669.3 | 3645.6 | 3552.5 | 3470.3 | 3475.8 | 3499.5 | 3769.7 | 4027.1 |
| 40°   | 4045.4 | 4063.6 | 3979.6 | 3943.1 | 3943.1 | 3851.9 | 3824.5 | 3954.1 | 3985.1 | 4262.6 | 4481.7 |
| 42.5° | 4346.6 | 4375.8 | 4326.5 | 4302.8 | 4231.6 | 4167.7 | 4200.5 | 4383.1 | 4436.0 | 4733.6 | 4877.8 |
| 45°   | 4492.6 | 4514.5 | 4572.9 | 4642.3 | 4572.9 | 4461.6 | 4585.7 | 4792.0 | 4866.8 | 5168.1 | 5273.9 |
| 47.5° | 4571.1 | 4591.2 | 4658.7 | 4844.9 | 4892.4 | 4799.3 | 4974.5 | 5231.9 | 5283.1 | 5598.9 | 5651.8 |
| 50°   | 4582.1 | 4646.0 | 4733.6 | 4919.8 | 5137.0 | 5149.8 | 5365.2 | 5679.2 | 5739.4 | 6022.4 | 5984.1 |
| 52.5° | 4492.6 | 4518.2 | 4698.9 | 5012.9 | 5253.9 | 5472.9 | 5790.6 | 6108.2 | 6152.0 | 6420.4 | 6278.0 |
| 55°   | 4346.6 | 4383.1 | 4563.8 | 4991.0 | 5367.0 | 5779.6 | 6223.2 | 6529.9 | 6579.2 | 6807.4 | 6550.0 |
| 57.5° | 4215.1 | 4233.4 | 4426.9 | 4927.1 | 5480.2 | 6086.3 | 6608.4 | 6969.8 | 7002.7 | 7146.9 | 6750.8 |
| 60°   | 4069.1 | 4089.2 | 4282.7 | 4790.2 | 5564.2 | 6318.1 | 7010.0 | 7413.4 | 7442.7 | 7504.7 | 6984.4 |
| 62.5° | 3691.2 | 3744.1 | 3986.9 | 4563.8 | 5542.3 | 6582.8 | 7439.0 | 7851.6 | 7888.1 | 7820.5 | 7168.8 |
| 65°   | 2997.5 | 3072.4 | 3369.9 | 4050.8 | 5337.8 | 6754.4 | 7789.5 | 8255.0 | 8317.1 | 8057.9 | 7218.1 |
| 67.5° | 2327.5 | 2380.5 | 2619.6 | 3214.7 | 4620.4 | 6668.6 | 8015.9 | 8532.5 | 8550.7 | 8019.5 | 6944.3 |
| 68°   | 2207.1 | 2260.0 | 2488.2 | 3039.5 | 4421.4 | 6566.4 | 8010.4 | 8539.8 | 8580.0 | 7977.5 | 6838.4 |
| 70°   | 1688.6 | 1748.9 | 1966.1 | 2407.9 | 3563.4 | 5916.5 | 7676.3 | 8364.5 | 8359.1 | 7470.0 | 6181.2 |
| 72.5° | 1055.2 | 1089.8 | 1239.5 | 1518.8 | 2356.7 | 4501.7 | 6515.3 | 7376.9 | 7391.5 | 6089.9 | 4740.9 |
| 75°   | 670.0  | 670.0  | 662.7  | 735.7  | 1208.5 | 2564.9 | 4843.1 | 5679.2 | 5690.2 | 4264.4 | 2988.4 |
| 77.5° | 582.3  | 565.9  | 487.4  | 412.6  | 481.9  | 996.7  | 2866.1 | 3667.5 | 3607.2 | 2296.5 | 1418.4 |
| 80°   | 491.1  | 463.7  | 399.8  | 332.2  | 310.3  | 312.2  | 1100.8 | 1862.0 | 1781.7 | 827.0  | 471.0  |
| 82.5° | 354.2  | 330.4  | 301.2  | 261.0  | 239.1  | 186.2  | 230.0  | 538.5  | 525.8  | 239.1  | 153.3  |
| 85°   | 191.7  | 173.4  | 169.8  | 171.6  | 144.2  | 115.0  | 96.8   | 118.7  | 118.7  | 104.1  | 87.6   |
| 87.5° | 67.5   | 49.3   | 58.4   | 65.7   | 56.6   | 47.5   | 38.3   | 45.6   | 47.5   | 45.6   | 42.0   |
| 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: P1210847

CATALOG NUMBER: ARCH3-90-730-U-T3RE

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1809.1 | 1809.1 | 1809.1 | 1809.1 | 1809.1 | 1809.1 | 1809.1 | 1809.1 | 1809.1 | 1809.1 | 1809.1 |
| 2.5°  | 1816.4 | 1834.6 | 1878.5 | 1916.8 | 1944.2 | 1967.9 | 1980.7 | 1986.2 | 1998.9 | 2000.8 | 1997.1 |
| 5°    | 1831.0 | 1878.5 | 1944.2 | 2000.8 | 2031.8 | 2044.6 | 2048.2 | 2050.1 | 2044.6 | 2048.2 | 2044.6 |
| 7.5°  | 1869.3 | 1929.6 | 2022.7 | 2072.0 | 2077.4 | 2057.4 | 2059.2 | 2051.9 | 2059.2 | 2066.5 | 2066.5 |
| 10°   | 1927.8 | 2004.4 | 2092.0 | 2110.3 | 2086.6 | 2075.6 | 2097.5 | 2141.3 | 2155.9 | 2176.0 | 2176.0 |
| 12.5° | 2004.4 | 2095.7 | 2157.8 | 2141.3 | 2119.4 | 2155.9 | 2219.8 | 2263.6 | 2278.3 | 2285.6 | 2280.1 |
| 15°   | 2092.0 | 2190.6 | 2221.7 | 2166.9 | 2207.1 | 2285.6 | 2307.5 | 2281.9 | 2245.4 | 2229.0 | 2238.1 |
| 17.5° | 2203.4 | 2285.6 | 2267.3 | 2230.8 | 2322.1 | 2333.0 | 2261.8 | 2179.7 | 2121.3 | 2099.4 | 2114.0 |
| 20°   | 2320.2 | 2391.4 | 2307.5 | 2323.9 | 2380.5 | 2263.6 | 2128.6 | 2022.7 | 1971.6 | 1962.4 | 1977.0 |
| 22.5° | 2444.4 | 2490.0 | 2347.6 | 2431.6 | 2347.6 | 2110.3 | 1947.8 | 1893.1 | 1880.3 | 1894.9 | 1907.7 |
| 25°   | 2584.9 | 2579.5 | 2417.0 | 2464.5 | 2225.3 | 1922.3 | 1825.5 | 1821.9 | 1821.9 | 1831.0 | 1849.3 |
| 27.5° | 2743.8 | 2658.0 | 2486.4 | 2420.6 | 2013.6 | 1767.1 | 1748.9 | 1750.7 | 1745.2 | 1747.0 | 1756.2 |
| 30°   | 2928.1 | 2763.8 | 2563.0 | 2276.4 | 1776.2 | 1650.3 | 1643.0 | 1637.5 | 1624.7 | 1621.1 | 1624.7 |
| 32.5° | 3160.0 | 2875.2 | 2641.5 | 2039.1 | 1568.1 | 1529.8 | 1526.1 | 1496.9 | 1465.9 | 1462.2 | 1475.0 |
| 35°   | 3453.9 | 3077.8 | 2681.7 | 1741.5 | 1396.5 | 1394.7 | 1381.9 | 1336.3 | 1296.1 | 1296.1 | 1287.0 |
| 37.5° | 3789.8 | 3338.9 | 2698.1 | 1451.3 | 1254.1 | 1263.3 | 1226.8 | 1168.3 | 1137.3 | 1119.0 | 1124.5 |
| 40°   | 4133.0 | 3636.4 | 2696.3 | 1197.5 | 1130.0 | 1131.8 | 1104.4 | 1033.2 | 956.6  | 910.9  | 921.9  |
| 42.5° | 4463.4 | 3906.6 | 2648.8 | 1062.5 | 1029.6 | 1024.1 | 1002.2 | 905.5  | 841.6  | 805.1  | 806.9  |
| 45°   | 4728.1 | 4185.9 | 2575.8 | 982.1  | 938.3  | 947.4  | 898.2  | 839.7  | 781.3  | 748.5  | 746.6  |
| 47.5° | 4992.8 | 4397.7 | 2459.0 | 932.8  | 870.8  | 854.3  | 834.3  | 794.1  | 750.3  | 713.8  | 715.6  |
| 50°   | 5233.8 | 4578.4 | 2349.4 | 900.0  | 808.7  | 766.7  | 770.4  | 746.6  | 708.3  | 675.4  | 673.6  |
| 52.5° | 5403.5 | 4697.1 | 2289.2 | 881.7  | 733.9  | 688.2  | 701.0  | 688.2  | 651.7  | 628.0  | 626.2  |
| 55°   | 5573.3 | 4788.3 | 2309.3 | 858.0  | 651.7  | 615.2  | 637.1  | 633.5  | 613.4  | 606.1  | 607.9  |
| 57.5° | 5710.2 | 4857.7 | 2380.5 | 814.2  | 573.2  | 551.3  | 587.8  | 576.9  | 562.3  | 564.1  | 564.1  |
| 60°   | 5843.5 | 4947.2 | 2464.5 | 713.8  | 505.7  | 507.5  | 542.2  | 522.1  | 513.0  | 529.4  | 531.2  |
| 62.5° | 5982.2 | 5043.9 | 2395.1 | 567.7  | 447.3  | 460.0  | 500.2  | 483.8  | 487.4  | 511.1  | 518.4  |
| 65°   | 5965.8 | 5034.8 | 1951.5 | 465.5  | 396.1  | 421.7  | 481.9  | 476.5  | 478.3  | 487.4  | 491.1  |
| 67.5° | 5629.9 | 4713.5 | 1341.8 | 396.1  | 359.6  | 390.7  | 467.3  | 445.4  | 447.3  | 441.8  | 443.6  |
| 68°   | 5516.7 | 4600.3 | 1182.9 | 385.2  | 352.3  | 383.4  | 460.0  | 440.0  | 441.8  | 436.3  | 434.5  |
| 70°   | 4899.7 | 3939.5 | 748.5  | 339.5  | 326.8  | 363.3  | 423.5  | 416.2  | 414.4  | 410.7  | 410.7  |
| 72.5° | 3735.0 | 2908.1 | 394.3  | 293.9  | 297.6  | 332.2  | 377.9  | 392.5  | 383.4  | 385.2  | 396.1  |
| 75°   | 2473.6 | 1748.9 | 273.8  | 251.9  | 261.0  | 284.8  | 335.9  | 365.1  | 356.0  | 361.5  | 356.0  |
| 77.5° | 1308.9 | 942.0  | 219.1  | 213.6  | 213.6  | 230.0  | 277.5  | 323.1  | 323.1  | 319.5  | 314.0  |
| 80°   | 429.0  | 332.2  | 175.3  | 167.9  | 171.6  | 180.7  | 222.7  | 264.7  | 270.2  | 262.9  | 259.2  |
| 82.5° | 144.2  | 153.3  | 131.4  | 122.3  | 126.0  | 133.3  | 167.9  | 202.6  | 204.5  | 189.9  | 186.2  |
| 85°   | 89.5   | 102.2  | 82.1   | 80.3   | 80.3   | 82.1   | 102.2  | 111.4  | 102.2  | 91.3   | 94.9   |
| 87.5° | 42.0   | 51.1   | 38.3   | 32.9   | 27.4   | 23.7   | 18.3   | 7.3    | 7.3    | 3.7    | 3.7    |
| 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)