

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: P1211070

Luminaire Tested: **ARCH4-160-730-U-T3RE-HSS**

Issue Date: 11/5/2025

### Test Information

Test Method: LM-79-08  
Report Number: P1211070  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/5/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH4-160-730-U-T3RE-HSS  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 1305mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III  
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 17881 lumens  
Efficiency: N/A  
Efficacy: 111.3 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 160.7  
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



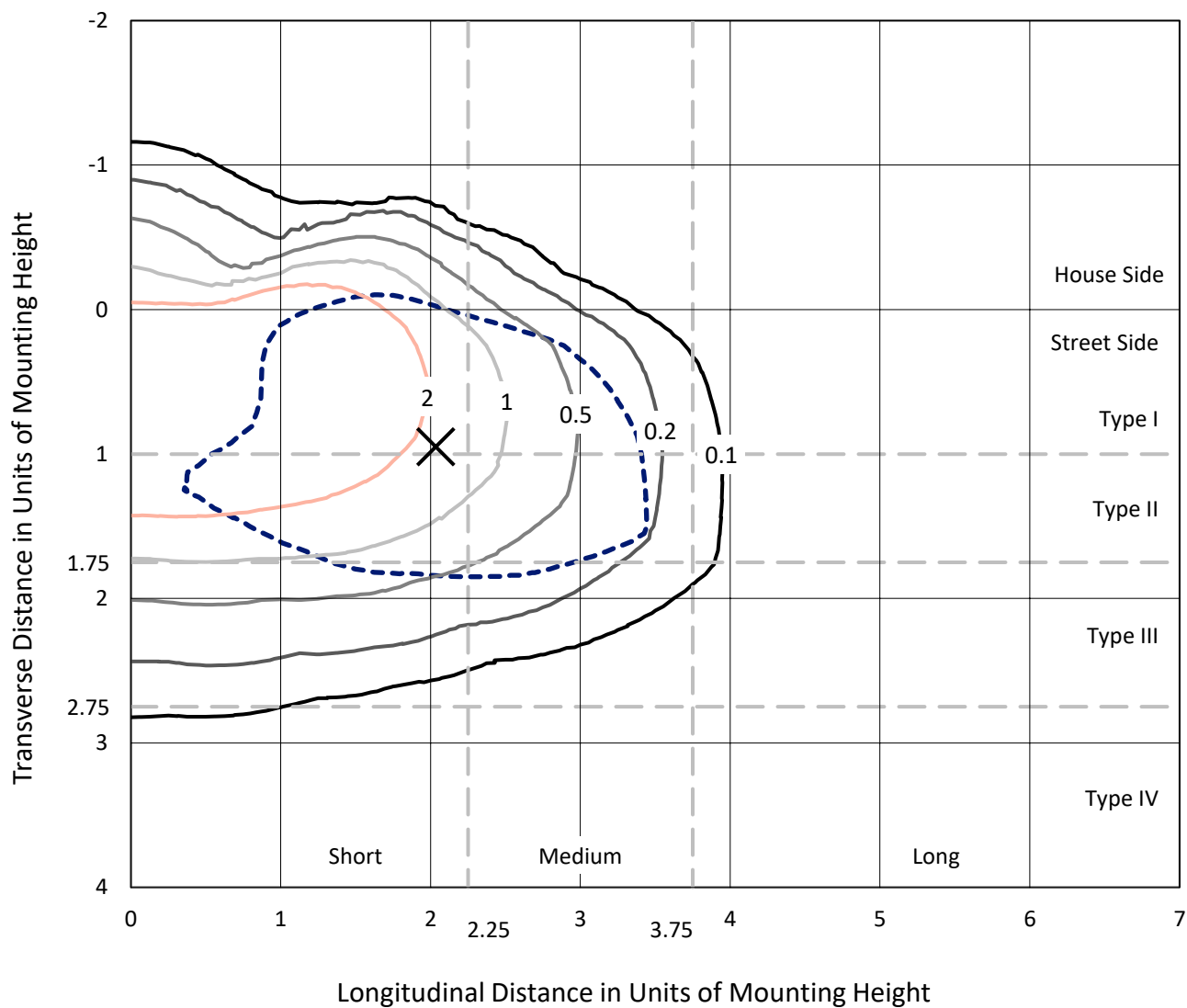
REPORT NUMBER: P1211070

CATALOG NUMBER: ARCH4-160-730-U-T3RE-HSS

## Iso-Footcandle Lines of Horizontal Illumination

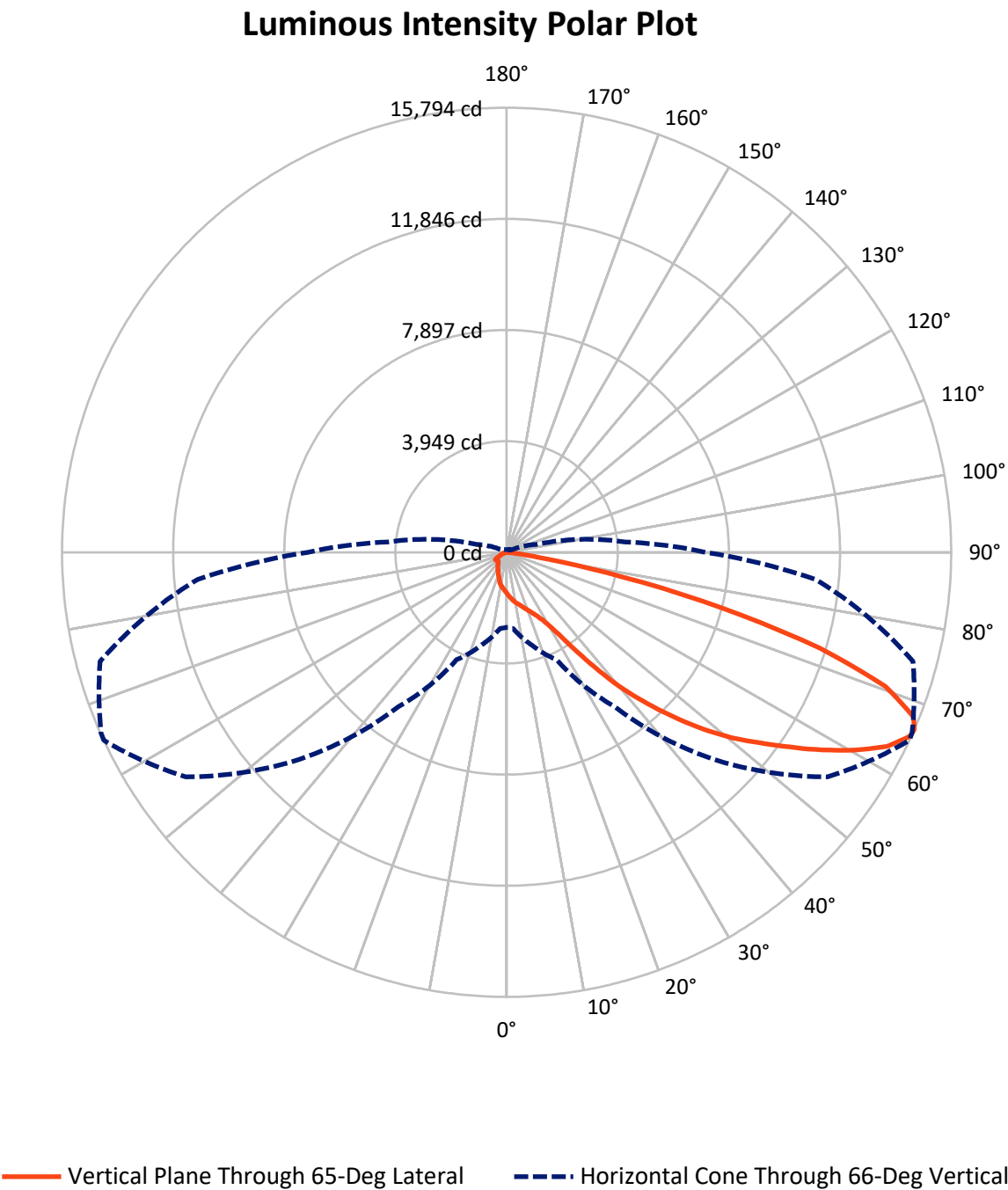
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type III - Short - N/A

REPORT NUMBER: P1211070  
CATALOG NUMBER: ARCH4-160-730-U-T3RE-HSS



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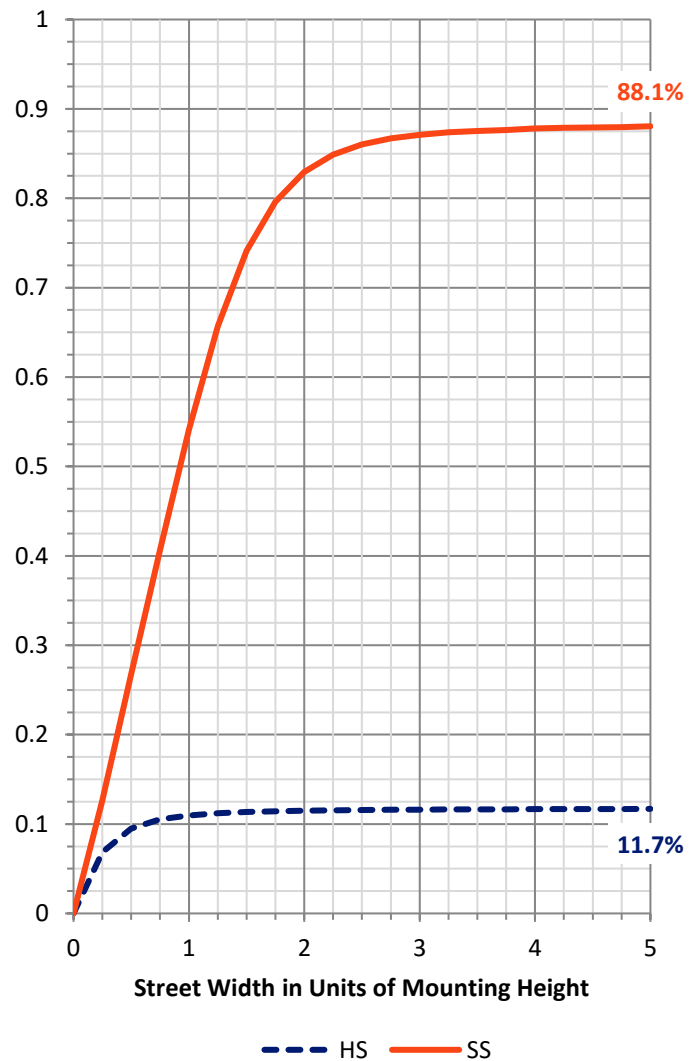
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2110.3   | 0.0    | 2110.3  |
|                    | % Fixture | 11.8     | 0.0    | 11.8    |
| <b>Street Side</b> | Lumens    | 15770.7  | 0.0    | 15770.7 |
|                    | % Fixture | 88.2     | 0.0    | 88.2    |
| <b>Total</b>       | Lumens    | 17881.0  | 0.0    | 17881.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 138.1   | 0.8       |
| 10°-20°   | 408.8   | 2.3       |
| 20°-30°   | 748.3   | 4.2       |
| 30°-40°   | 1520.5  | 8.5       |
| 40°-50°   | 3210.9  | 18.0      |
| 50°-60°   | 4936.3  | 27.6      |
| 60°-70°   | 4968.7  | 27.8      |
| 70°-80°   | 1856.6  | 10.4      |
| 80°-90°   | 92.7    | 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°    | 17881.0 | 100.0     |
| 0°-180°   | 17881.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P1211070

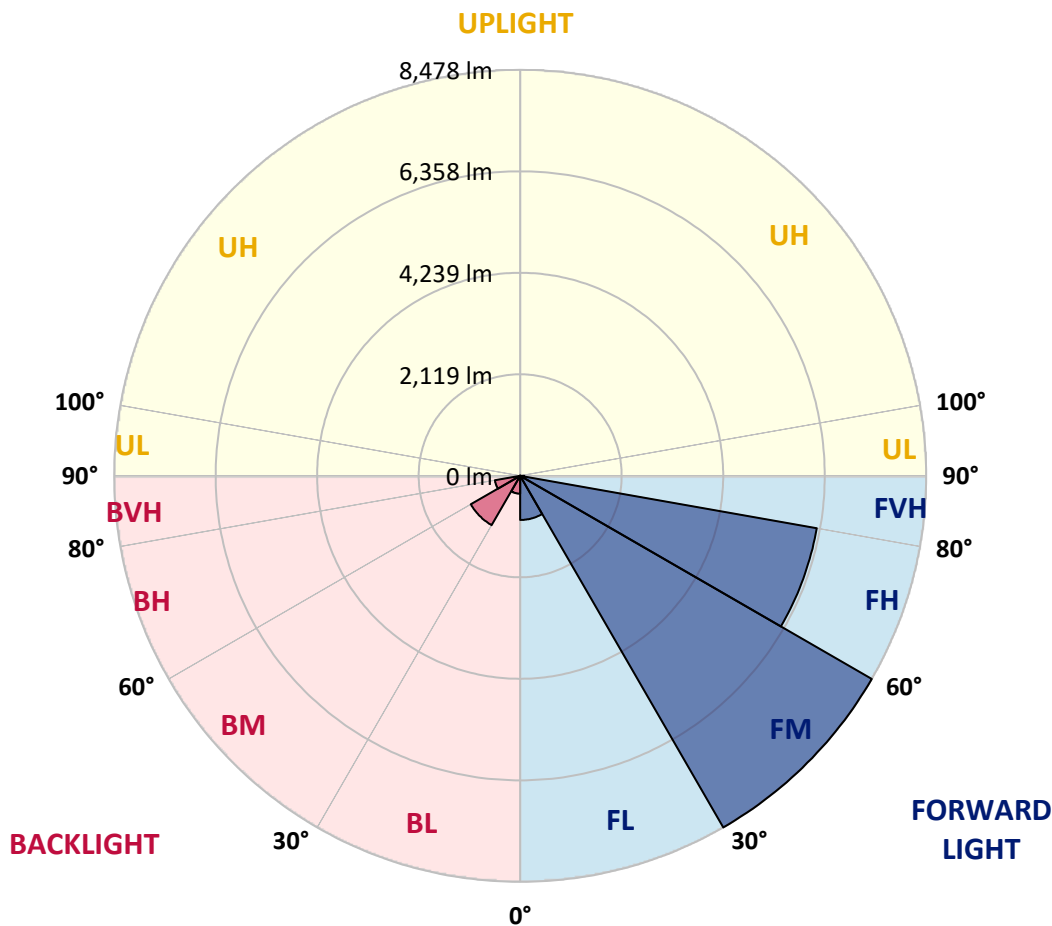
CATALOG NUMBER: ARCH4-160-730-U-T3RE-HSS

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 921.7  | 5.2       |                         |      |         |
| FM   | (30°-60°)   | 8477.9 | 47.4      |                         |      |         |
| FH   | (60°-80°)   | 6289.2 | 35.2      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 81.8   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 373.5  | 2.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1189.8 | 6.7       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 536.1  | 3.0       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 10.9   | 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 III Short



REPORT NUMBER: P1211070

CATALOG NUMBER: ARCH4-160-730-U-T3RE-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 55°     | 65°     | 66°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0°    | 1456.8 | 1456.8 | 1456.8 | 1456.8 | 1456.8 | 1456.8  | 1456.8  | 1456.8  | 1456.8  | 1456.8  | 1456.8  |
| 2.5°  | 1661.2 | 1664.4 | 1658.0 | 1645.0 | 1632.0 | 1615.8  | 1589.8  | 1547.6  | 1541.2  | 1512.0  | 1479.5  |
| 5°    | 1774.8 | 1781.3 | 1771.5 | 1768.3 | 1761.8 | 1739.1  | 1703.4  | 1641.7  | 1635.2  | 1576.8  | 1502.2  |
| 7.5°  | 1813.7 | 1823.4 | 1816.9 | 1816.9 | 1816.9 | 1807.2  | 1791.0  | 1735.8  | 1726.1  | 1651.5  | 1537.9  |
| 10°   | 1842.9 | 1849.4 | 1846.1 | 1859.1 | 1868.9 | 1862.4  | 1852.6  | 1820.2  | 1810.5  | 1735.8  | 1586.6  |
| 12.5° | 1888.3 | 1891.6 | 1894.8 | 1901.3 | 1917.5 | 1924.0  | 1920.8  | 1891.6  | 1885.1  | 1833.2  | 1648.2  |
| 15°   | 1930.5 | 1930.5 | 1933.7 | 1962.9 | 1985.7 | 1998.6  | 2001.9  | 1979.2  | 1972.7  | 1930.5  | 1726.1  |
| 17.5° | 1969.4 | 1972.7 | 1982.4 | 2014.9 | 2053.8 | 2079.8  | 2096.0  | 2086.2  | 2076.5  | 2044.1  | 1816.9  |
| 20°   | 2027.8 | 2034.3 | 2044.1 | 2089.5 | 2128.4 | 2170.6  | 2203.0  | 2199.8  | 2196.6  | 2173.8  | 1924.0  |
| 22.5° | 2128.4 | 2134.9 | 2151.1 | 2193.3 | 2232.2 | 2284.2  | 2339.3  | 2336.1  | 2326.3  | 2310.1  | 2050.5  |
| 25°   | 2280.9 | 2280.9 | 2290.6 | 2326.3 | 2375.0 | 2436.6  | 2488.6  | 2498.3  | 2488.6  | 2478.8  | 2209.5  |
| 27.5° | 2472.3 | 2475.6 | 2475.6 | 2514.5 | 2559.9 | 2637.8  | 2702.7  | 2712.4  | 2712.4  | 2702.7  | 2423.7  |
| 30°   | 2738.4 | 2728.7 | 2722.2 | 2754.6 | 2803.3 | 2916.8  | 3030.4  | 3049.9  | 3040.1  | 3056.4  | 2725.4  |
| 32.5° | 3195.9 | 3179.6 | 3124.5 | 3131.0 | 3160.2 | 3315.9  | 3507.3  | 3575.5  | 3572.2  | 3601.4  | 3212.1  |
| 35°   | 3828.6 | 3796.1 | 3715.0 | 3646.9 | 3643.6 | 3812.3  | 4104.3  | 4360.7  | 4357.4  | 4458.0  | 3951.8  |
| 37.5° | 4542.4 | 4584.5 | 4432.0 | 4315.2 | 4279.5 | 4412.6  | 4788.9  | 5343.8  | 5373.0  | 5548.2  | 4922.0  |
| 40°   | 5496.3 | 5522.2 | 5327.5 | 5162.1 | 4993.3 | 5042.0  | 5538.4  | 6401.5  | 6453.4  | 6648.1  | 5892.1  |
| 42.5° | 6326.9 | 6352.8 | 6239.3 | 6038.1 | 5823.9 | 5733.1  | 6294.4  | 7361.9  | 7404.0  | 7673.3  | 6891.4  |
| 45°   | 6891.4 | 6910.9 | 6949.8 | 6969.3 | 6725.9 | 6537.7  | 7219.1  | 8348.2  | 8400.1  | 8711.6  | 7868.0  |
| 47.5° | 7332.7 | 7348.9 | 7426.8 | 7621.4 | 7572.8 | 7423.5  | 8160.0  | 9373.5  | 9386.5  | 9733.6  | 8818.7  |
| 50°   | 7537.1 | 7576.0 | 7767.4 | 8065.9 | 8280.1 | 8322.2  | 9182.0  | 10343.6 | 10379.3 | 10710.2 | 9717.4  |
| 52.5° | 7309.9 | 7322.9 | 7806.4 | 8367.7 | 8799.2 | 9227.5  | 10207.3 | 11242.3 | 11346.2 | 11592.7 | 10525.3 |
| 55°   | 6544.2 | 6638.3 | 7371.6 | 8357.9 | 9208.0 | 10087.3 | 11304.0 | 12212.4 | 12306.5 | 12462.3 | 11235.8 |
| 57.5° | 5655.2 | 5759.1 | 6651.3 | 7939.4 | 9383.2 | 10882.2 | 12319.5 | 13244.2 | 13309.1 | 13351.3 | 11888.0 |
| 60°   | 4886.3 | 4983.6 | 5901.8 | 7138.0 | 9208.0 | 11443.5 | 13263.7 | 14269.5 | 14324.6 | 14211.1 | 12215.7 |
| 62.5° | 3942.1 | 4039.5 | 4964.1 | 6077.0 | 8520.2 | 11557.1 | 13964.5 | 15181.2 | 15203.9 | 14895.7 | 12014.5 |
| 65°   | 2972.0 | 3036.9 | 3809.1 | 4763.0 | 7316.4 | 10953.6 | 14123.5 | 15749.0 | 15726.3 | 15093.6 | 11411.0 |
| 66°   | 2663.8 | 2718.9 | 3400.3 | 4211.4 | 6690.2 | 10402.0 | 13909.3 | 15794.4 | 15771.7 | 14947.6 | 11015.2 |
| 67.5° | 2297.1 | 2313.4 | 2874.7 | 3445.7 | 5596.8 | 9230.7  | 13257.2 | 15586.8 | 15606.2 | 14545.3 | 10291.7 |
| 70°   | 1794.2 | 1791.0 | 2115.4 | 2397.7 | 3822.1 | 6566.9  | 11057.4 | 14279.2 | 14373.3 | 13026.8 | 8776.5  |
| 72.5° | 1148.6 | 1109.6 | 1297.8 | 1466.5 | 2225.8 | 3812.3  | 8062.7  | 11638.2 | 11797.1 | 10233.3 | 6537.7  |
| 75°   | 684.6  | 645.7  | 691.1  | 733.3  | 1067.5 | 1833.2  | 4740.3  | 7919.9  | 8072.4  | 6560.5  | 3890.2  |
| 77.5° | 512.6  | 496.4  | 499.7  | 464.0  | 473.7  | 687.8   | 2164.1  | 4185.5  | 4295.8  | 2686.5  | 1476.3  |
| 80°   | 392.6  | 350.4  | 327.7  | 343.9  | 311.5  | 272.5   | 804.6   | 1440.6  | 1508.7  | 635.9   | 308.2   |
| 82.5° | 262.8  | 227.1  | 210.9  | 230.4  | 197.9  | 152.5   | 194.7   | 279.0   | 272.5   | 172.0   | 120.0   |
| 85°   | 136.3  | 116.8  | 116.8  | 116.8  | 100.6  | 74.6    | 84.4    | 113.6   | 113.6   | 90.8    | 71.4    |
| 87.5° | 38.9   | 35.7   | 42.2   | 38.9   | 29.2   | 29.2    | 32.4    | 38.9    | 38.9    | 35.7    | 32.4    |
| 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: P1211070

CATALOG NUMBER: ARCH4-160-730-U-T3RE-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1456.8 | 1456.8 | 1456.8 | 1456.8 | 1456.8 | 1456.8 | 1456.8 | 1456.8 | 1456.8 | 1456.8 | 1456.8 |
| 2.5°  | 1453.6 | 1440.6 | 1404.9 | 1378.9 | 1353.0 | 1330.3 | 1304.3 | 1297.8 | 1284.8 | 1288.1 | 1281.6 |
| 5°    | 1463.3 | 1427.6 | 1366.0 | 1307.5 | 1262.1 | 1223.2 | 1174.5 | 1155.1 | 1129.1 | 1119.4 | 1112.9 |
| 7.5°  | 1476.3 | 1424.4 | 1333.5 | 1252.4 | 1174.5 | 1096.7 | 1018.8 | 973.4  | 944.2  | 931.2  | 921.4  |
| 10°   | 1505.5 | 1437.3 | 1317.3 | 1190.7 | 1057.7 | 947.4  | 869.5  | 837.1  | 817.6  | 814.4  | 811.1  |
| 12.5° | 1544.4 | 1456.8 | 1301.1 | 1112.9 | 937.7  | 833.8  | 785.2  | 775.4  | 772.2  | 772.2  | 769.0  |
| 15°   | 1602.8 | 1489.2 | 1275.1 | 1022.0 | 843.6  | 772.2  | 749.5  | 733.3  | 726.8  | 726.8  | 726.8  |
| 17.5° | 1661.2 | 1528.2 | 1236.2 | 927.9  | 778.7  | 733.3  | 710.6  | 700.8  | 694.3  | 697.6  | 694.3  |
| 20°   | 1735.8 | 1573.6 | 1184.3 | 846.8  | 736.5  | 700.8  | 678.1  | 668.4  | 665.1  | 665.1  | 665.1  |
| 22.5° | 1820.2 | 1625.5 | 1119.4 | 785.2  | 700.8  | 668.4  | 645.7  | 635.9  | 629.4  | 632.7  | 632.7  |
| 25°   | 1933.7 | 1690.4 | 1051.2 | 723.5  | 665.1  | 635.9  | 610.0  | 597.0  | 597.0  | 600.2  | 603.5  |
| 27.5° | 2079.8 | 1768.3 | 983.1  | 684.6  | 632.7  | 603.5  | 574.3  | 561.3  | 564.5  | 571.0  | 571.0  |
| 30°   | 2293.9 | 1875.3 | 915.0  | 642.4  | 597.0  | 564.5  | 538.6  | 525.6  | 532.1  | 545.1  | 545.1  |
| 32.5° | 2598.9 | 2050.5 | 856.6  | 593.8  | 545.1  | 509.4  | 483.4  | 473.7  | 489.9  | 515.9  | 515.9  |
| 35°   | 3144.0 | 2371.8 | 820.9  | 545.1  | 489.9  | 447.7  | 415.3  | 405.6  | 428.3  | 460.7  | 460.7  |
| 37.5° | 3874.0 | 2887.6 | 833.8  | 502.9  | 444.5  | 395.8  | 360.1  | 347.2  | 363.4  | 392.6  | 402.3  |
| 40°   | 4688.4 | 3510.6 | 947.4  | 467.2  | 402.3  | 353.7  | 318.0  | 305.0  | 314.7  | 327.7  | 330.9  |
| 42.5° | 5502.7 | 4172.5 | 1161.5 | 441.3  | 369.9  | 318.0  | 285.5  | 275.8  | 282.3  | 285.5  | 288.8  |
| 45°   | 6313.9 | 4827.9 | 1430.8 | 425.0  | 340.7  | 288.8  | 256.3  | 256.3  | 259.6  | 259.6  | 259.6  |
| 47.5° | 7082.8 | 5467.0 | 1713.1 | 421.8  | 314.7  | 259.6  | 233.6  | 236.9  | 236.9  | 240.1  | 240.1  |
| 50°   | 7809.6 | 6038.1 | 1998.6 | 431.5  | 292.0  | 233.6  | 214.1  | 214.1  | 214.1  | 217.4  | 214.1  |
| 52.5° | 8416.3 | 6537.7 | 2297.1 | 447.7  | 269.3  | 214.1  | 194.7  | 194.7  | 194.7  | 197.9  | 194.7  |
| 55°   | 8990.6 | 6992.0 | 2602.1 | 470.5  | 249.8  | 197.9  | 178.4  | 172.0  | 172.0  | 175.2  | 172.0  |
| 57.5° | 9457.8 | 7293.7 | 2890.9 | 473.7  | 233.6  | 181.7  | 165.5  | 155.7  | 155.7  | 155.7  | 155.7  |
| 60°   | 9477.3 | 7118.5 | 2975.2 | 415.3  | 214.1  | 165.5  | 149.2  | 136.3  | 139.5  | 139.5  | 139.5  |
| 62.5° | 8857.6 | 6197.1 | 2391.2 | 311.5  | 191.4  | 149.2  | 136.3  | 123.3  | 123.3  | 123.3  | 123.3  |
| 65°   | 7640.9 | 4821.4 | 1401.6 | 246.6  | 165.5  | 133.0  | 120.0  | 110.3  | 110.3  | 110.3  | 107.1  |
| 66°   | 7069.9 | 4227.6 | 1073.9 | 223.9  | 155.7  | 129.8  | 116.8  | 107.1  | 103.8  | 100.6  | 100.6  |
| 67.5° | 6138.7 | 3341.9 | 671.6  | 197.9  | 142.8  | 120.0  | 107.1  | 97.3   | 94.1   | 90.8   | 90.8   |
| 70°   | 4623.5 | 2121.9 | 327.7  | 152.5  | 123.3  | 103.8  | 94.1   | 84.4   | 81.1   | 77.9   | 74.6   |
| 72.5° | 3244.5 | 1242.7 | 172.0  | 116.8  | 100.6  | 90.8   | 81.1   | 71.4   | 68.1   | 64.9   | 64.9   |
| 75°   | 1833.2 | 600.2  | 113.6  | 84.4   | 81.1   | 74.6   | 68.1   | 58.4   | 55.2   | 55.2   | 55.2   |
| 77.5° | 694.3  | 207.7  | 77.9   | 61.6   | 64.9   | 58.4   | 48.7   | 48.7   | 45.4   | 48.7   | 45.4   |
| 80°   | 181.7  | 90.8   | 48.7   | 45.4   | 48.7   | 42.2   | 35.7   | 38.9   | 38.9   | 38.9   | 38.9   |
| 82.5° | 97.3   | 51.9   | 29.2   | 32.4   | 29.2   | 29.2   | 22.7   | 26.0   | 29.2   | 26.0   | 29.2   |
| 85°   | 68.1   | 26.0   | 16.2   | 16.2   | 13.0   | 13.0   | 9.7    | 13.0   | 16.2   | 13.0   | 13.0   |
| 87.5° | 35.7   | 9.7    | 9.7    | 9.7    | 9.7    | 6.5    | 3.2    | 0.0    | 3.2    | 3.2    | 3.2    |
| 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)