

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: P1210782

Luminaire Tested: **ARCH3-70-730-U-T3RE-HSS**

Issue Date: 11/5/2025

### Test Information

Test Method: LM-79-08  
Report Number: P1210782  
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: ARCH3-70-730-U-T3RE-HSS  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 580mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY  
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 8161 lumens  
Efficiency: N/A  
Efficacy: 111.6 lumens/watt  
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 73.1  
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

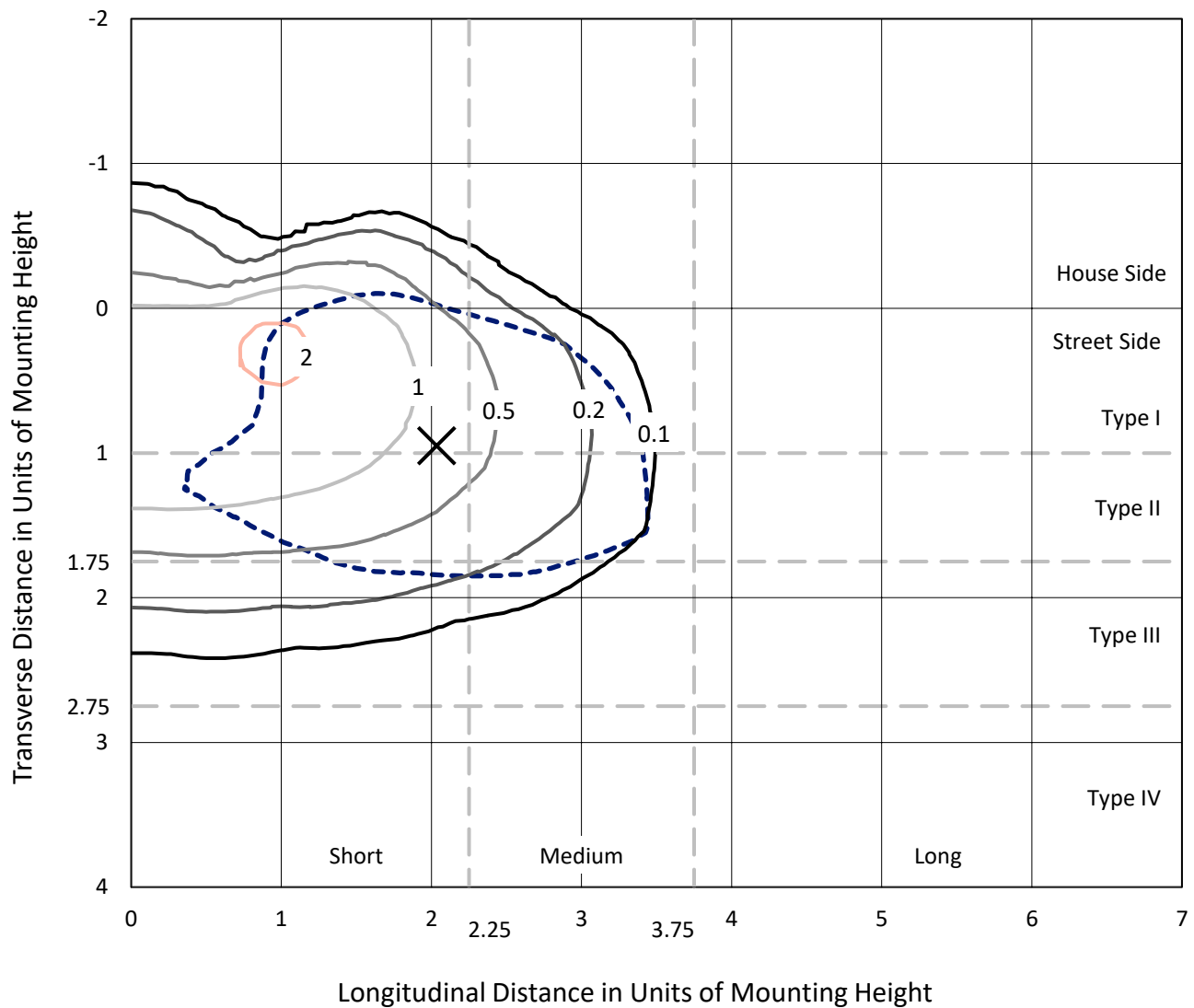


REPORT NUMBER: P1210782

CATALOG NUMBER: ARCH3-70-730-U-T3RE-HSS

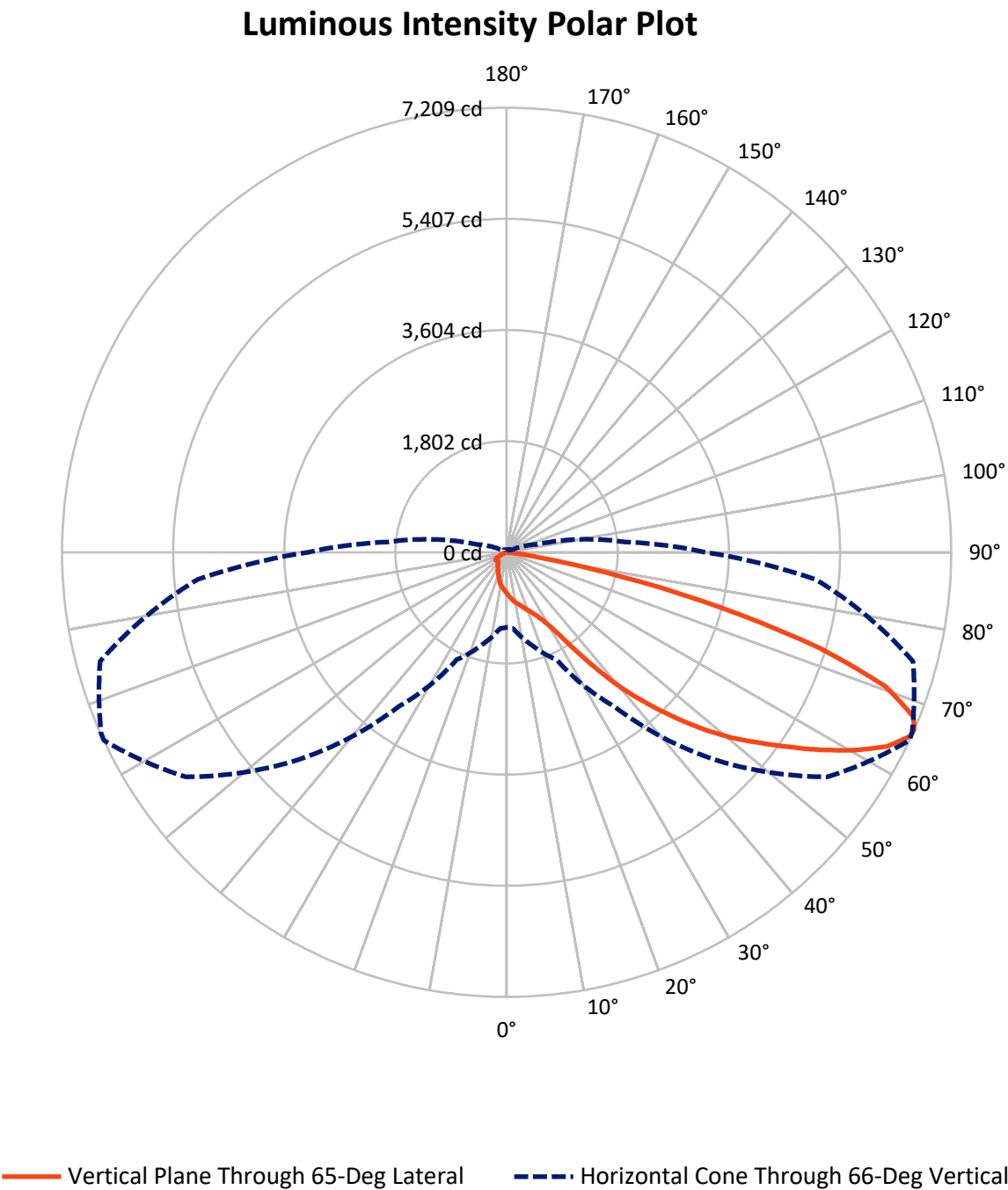
## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc  
Type III - Short - N/A

REPORT NUMBER: P1210782  
CATALOG NUMBER: ARCH3-70-730-U-T3RE-HSS



REPORT NUMBER: P1210782

CATALOG NUMBER: ARCH3-70-730-U-T3RE-HSS

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 963.2    | 0.0    | 963.2  |
|                    | % Fixture | 11.8     | 0.0    | 11.8   |
| <b>Street Side</b> | Lumens    | 7197.8   | 0.0    | 7197.8 |
|                    | % Fixture | 88.2     | 0.0    | 88.2   |
| <b>Total</b>       | Lumens    | 8161.0   | 0.0    | 8161.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 63.0   | 0.8       |
| 10°-20°   | 186.6  | 2.3       |
| 20°-30°   | 341.5  | 4.2       |
| 30°-40°   | 694.0  | 8.5       |
| 40°-50°   | 1465.5 | 18.0      |
| 50°-60°   | 2252.9 | 27.6      |
| 60°-70°   | 2267.7 | 27.8      |
| 70°-80°   | 847.3  | 10.4      |
| 80°-90°   | 42.3   | 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°    | 8161.0 | 100.0     |
| 0°-180°   | 8161.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P1210782

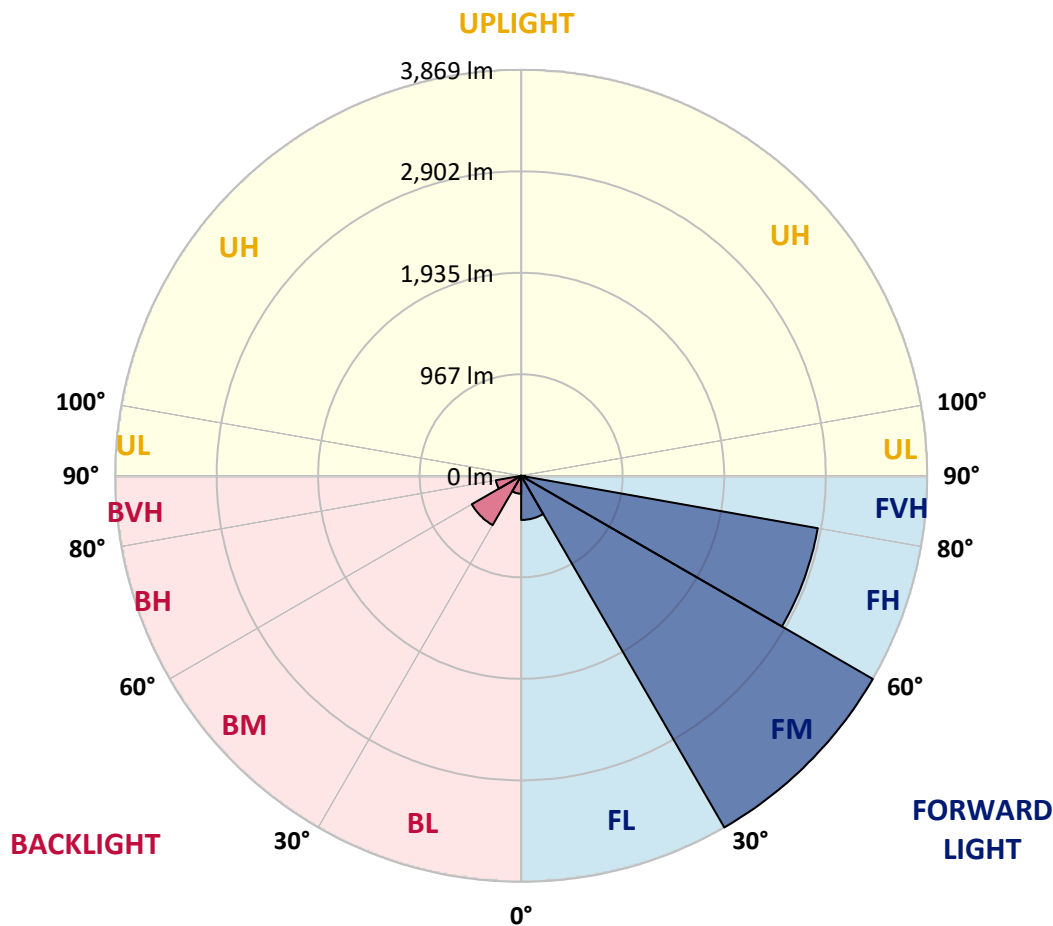
CATALOG NUMBER: ARCH3-70-730-U-T3RE-HSS

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 420.7  | 5.2       |                         |      |         |
| FM   | (30°-60°)   | 3869.4 | 47.4      |                         |      |         |
| FH   | (60°-80°)   | 2870.4 | 35.2      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 37.4   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 170.5  | 2.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 543.0  | 6.7       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 244.7  | 3.0       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 5.0    | 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-G2**

Type III Short



REPORT NUMBER: P1210782

CATALOG NUMBER: ARCH3-70-730-U-T3RE-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 66°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 664.9  | 664.9  | 664.9  | 664.9  | 664.9  | 664.9  | 664.9  | 664.9  | 664.9  | 664.9  | 664.9  |
| 2.5°  | 758.2  | 759.7  | 756.7  | 750.8  | 744.9  | 737.5  | 725.6  | 706.4  | 703.4  | 690.1  | 675.3  |
| 5°    | 810.0  | 813.0  | 808.5  | 807.1  | 804.1  | 793.7  | 777.4  | 749.3  | 746.3  | 719.7  | 685.6  |
| 7.5°  | 827.8  | 832.2  | 829.3  | 829.3  | 829.3  | 824.8  | 817.4  | 792.2  | 787.8  | 753.7  | 701.9  |
| 10°   | 841.1  | 844.1  | 842.6  | 848.5  | 853.0  | 850.0  | 845.6  | 830.7  | 826.3  | 792.2  | 724.1  |
| 12.5° | 861.8  | 863.3  | 864.8  | 867.8  | 875.2  | 878.1  | 876.7  | 863.3  | 860.4  | 836.7  | 752.3  |
| 15°   | 881.1  | 881.1  | 882.6  | 895.9  | 906.3  | 912.2  | 913.7  | 903.3  | 900.3  | 881.1  | 787.8  |
| 17.5° | 898.9  | 900.3  | 904.8  | 919.6  | 937.4  | 949.2  | 956.6  | 952.2  | 947.7  | 932.9  | 829.3  |
| 20°   | 925.5  | 928.5  | 932.9  | 953.7  | 971.4  | 990.7  | 1005.5 | 1004.0 | 1002.5 | 992.2  | 878.1  |
| 22.5° | 971.4  | 974.4  | 981.8  | 1001.0 | 1018.8 | 1042.5 | 1067.7 | 1066.2 | 1061.8 | 1054.3 | 935.9  |
| 25°   | 1041.0 | 1041.0 | 1045.5 | 1061.8 | 1084.0 | 1112.1 | 1135.8 | 1140.2 | 1135.8 | 1131.4 | 1008.4 |
| 27.5° | 1128.4 | 1129.9 | 1129.9 | 1147.6 | 1168.4 | 1203.9 | 1233.5 | 1238.0 | 1238.0 | 1233.5 | 1106.2 |
| 30°   | 1249.8 | 1245.4 | 1242.4 | 1257.2 | 1279.4 | 1331.3 | 1383.1 | 1392.0 | 1387.5 | 1394.9 | 1243.9 |
| 32.5° | 1458.6 | 1451.2 | 1426.0 | 1429.0 | 1442.3 | 1513.4 | 1600.8 | 1631.9 | 1630.4 | 1643.7 | 1466.0 |
| 35°   | 1747.4 | 1732.6 | 1695.5 | 1664.5 | 1663.0 | 1740.0 | 1873.2 | 1990.2 | 1988.8 | 2034.7 | 1803.6 |
| 37.5° | 2073.2 | 2092.4 | 2022.8 | 1969.5 | 1953.2 | 2013.9 | 2185.7 | 2438.9 | 2452.3 | 2532.2 | 2246.4 |
| 40°   | 2508.5 | 2520.4 | 2431.5 | 2356.0 | 2279.0 | 2301.2 | 2527.8 | 2921.7 | 2945.4 | 3034.2 | 2689.2 |
| 42.5° | 2887.6 | 2899.5 | 2847.6 | 2755.8 | 2658.1 | 2616.6 | 2872.8 | 3360.0 | 3379.3 | 3502.2 | 3145.3 |
| 45°   | 3145.3 | 3154.2 | 3171.9 | 3180.8 | 3069.8 | 2983.9 | 3294.8 | 3810.2 | 3833.9 | 3976.0 | 3591.0 |
| 47.5° | 3346.7 | 3354.1 | 3389.6 | 3478.5 | 3456.3 | 3388.1 | 3724.3 | 4278.1 | 4284.0 | 4442.5 | 4024.9 |
| 50°   | 3440.0 | 3457.7 | 3545.1 | 3681.3 | 3779.1 | 3798.3 | 4190.7 | 4720.9 | 4737.2 | 4888.2 | 4435.1 |
| 52.5° | 3336.3 | 3342.2 | 3562.9 | 3819.1 | 4016.0 | 4211.5 | 4658.7 | 5131.1 | 5178.5 | 5291.0 | 4803.8 |
| 55°   | 2986.8 | 3029.8 | 3364.4 | 3814.6 | 4202.6 | 4603.9 | 5159.2 | 5573.8 | 5616.8 | 5687.9 | 5128.1 |
| 57.5° | 2581.1 | 2628.5 | 3035.7 | 3623.6 | 4282.6 | 4966.7 | 5622.7 | 6044.7 | 6074.4 | 6093.6 | 5425.8 |
| 60°   | 2230.1 | 2274.6 | 2693.6 | 3257.8 | 4202.6 | 5222.9 | 6053.6 | 6512.7 | 6537.9 | 6486.0 | 5575.3 |
| 62.5° | 1799.2 | 1843.6 | 2265.7 | 2773.6 | 3888.7 | 5274.7 | 6373.5 | 6928.8 | 6939.2 | 6798.5 | 5483.5 |
| 65°   | 1356.4 | 1386.1 | 1738.5 | 2173.9 | 3339.3 | 4999.3 | 6446.0 | 7187.9 | 7177.6 | 6888.8 | 5208.1 |
| 66°   | 1215.8 | 1240.9 | 1551.9 | 1922.1 | 3053.5 | 4747.5 | 6348.3 | 7208.7 | 7198.3 | 6822.2 | 5027.4 |
| 67.5° | 1048.4 | 1055.8 | 1312.0 | 1572.6 | 2554.4 | 4213.0 | 6050.7 | 7113.9 | 7122.8 | 6638.6 | 4697.2 |
| 70°   | 818.9  | 817.4  | 965.5  | 1094.3 | 1744.4 | 2997.2 | 5046.7 | 6517.1 | 6560.1 | 5945.5 | 4005.6 |
| 72.5° | 524.2  | 506.4  | 592.3  | 669.3  | 1015.8 | 1740.0 | 3679.9 | 5311.7 | 5384.3 | 4670.5 | 2983.9 |
| 75°   | 312.5  | 294.7  | 315.4  | 334.7  | 487.2  | 836.7  | 2163.5 | 3614.7 | 3684.3 | 2994.2 | 1775.5 |
| 77.5° | 234.0  | 226.6  | 228.0  | 211.8  | 216.2  | 313.9  | 987.7  | 1910.3 | 1960.6 | 1226.1 | 673.8  |
| 80°   | 179.2  | 159.9  | 149.6  | 157.0  | 142.2  | 124.4  | 367.2  | 657.5  | 688.6  | 290.2  | 140.7  |
| 82.5° | 119.9  | 103.7  | 96.3   | 105.1  | 90.3   | 69.6   | 88.8   | 127.4  | 124.4  | 78.5   | 54.8   |
| 85°   | 62.2   | 53.3   | 53.3   | 53.3   | 45.9   | 34.1   | 38.5   | 51.8   | 51.8   | 41.5   | 32.6   |
| 87.5° | 17.8   | 16.3   | 19.3   | 17.8   | 13.3   | 13.3   | 14.8   | 17.8   | 17.8   | 16.3   | 14.8   |
| 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: P1210782

CATALOG NUMBER: ARCH3-70-730-U-T3RE-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 664.9  | 664.9  | 664.9  | 664.9 | 664.9 | 664.9 | 664.9 | 664.9 | 664.9 | 664.9 | 664.9 |
| 2.5°  | 663.4  | 657.5  | 641.2  | 629.4 | 617.5 | 607.1 | 595.3 | 592.3 | 586.4 | 587.9 | 584.9 |
| 5°    | 667.9  | 651.6  | 623.4  | 596.8 | 576.0 | 558.3 | 536.1 | 527.2 | 515.3 | 510.9 | 507.9 |
| 7.5°  | 673.8  | 650.1  | 608.6  | 571.6 | 536.1 | 500.5 | 465.0 | 444.2 | 430.9 | 425.0 | 420.6 |
| 10°   | 687.1  | 656.0  | 601.2  | 543.5 | 482.8 | 432.4 | 396.9 | 382.1 | 373.2 | 371.7 | 370.2 |
| 12.5° | 704.9  | 664.9  | 593.8  | 507.9 | 428.0 | 380.6 | 358.4 | 353.9 | 352.4 | 352.4 | 351.0 |
| 15°   | 731.5  | 679.7  | 582.0  | 466.5 | 385.0 | 352.4 | 342.1 | 334.7 | 331.7 | 331.7 | 331.7 |
| 17.5° | 758.2  | 697.5  | 564.2  | 423.5 | 355.4 | 334.7 | 324.3 | 319.9 | 316.9 | 318.4 | 316.9 |
| 20°   | 792.2  | 718.2  | 540.5  | 386.5 | 336.1 | 319.9 | 309.5 | 305.1 | 303.6 | 303.6 | 303.6 |
| 22.5° | 830.7  | 741.9  | 510.9  | 358.4 | 319.9 | 305.1 | 294.7 | 290.2 | 287.3 | 288.8 | 288.8 |
| 25°   | 882.6  | 771.5  | 479.8  | 330.2 | 303.6 | 290.2 | 278.4 | 272.5 | 272.5 | 274.0 | 275.4 |
| 27.5° | 949.2  | 807.1  | 448.7  | 312.5 | 288.8 | 275.4 | 262.1 | 256.2 | 257.7 | 260.6 | 260.6 |
| 30°   | 1046.9 | 855.9  | 417.6  | 293.2 | 272.5 | 257.7 | 245.8 | 239.9 | 242.9 | 248.8 | 248.8 |
| 32.5° | 1186.1 | 935.9  | 390.9  | 271.0 | 248.8 | 232.5 | 220.6 | 216.2 | 223.6 | 235.5 | 235.5 |
| 35°   | 1434.9 | 1082.5 | 374.6  | 248.8 | 223.6 | 204.4 | 189.5 | 185.1 | 195.5 | 210.3 | 210.3 |
| 37.5° | 1768.1 | 1317.9 | 380.6  | 229.5 | 202.9 | 180.7 | 164.4 | 158.4 | 165.9 | 179.2 | 183.6 |
| 40°   | 2139.8 | 1602.3 | 432.4  | 213.2 | 183.6 | 161.4 | 145.1 | 139.2 | 143.6 | 149.6 | 151.0 |
| 42.5° | 2511.5 | 1904.3 | 530.1  | 201.4 | 168.8 | 145.1 | 130.3 | 125.9 | 128.8 | 130.3 | 131.8 |
| 45°   | 2881.7 | 2203.5 | 653.0  | 194.0 | 155.5 | 131.8 | 117.0 | 117.0 | 118.5 | 118.5 | 118.5 |
| 47.5° | 3232.6 | 2495.2 | 781.9  | 192.5 | 143.6 | 118.5 | 106.6 | 108.1 | 108.1 | 109.6 | 109.6 |
| 50°   | 3564.4 | 2755.8 | 912.2  | 197.0 | 133.3 | 106.6 | 97.7  | 97.7  | 97.7  | 99.2  | 97.7  |
| 52.5° | 3841.3 | 2983.9 | 1048.4 | 204.4 | 122.9 | 97.7  | 88.8  | 88.8  | 88.8  | 90.3  | 88.8  |
| 55°   | 4103.4 | 3191.2 | 1187.6 | 214.7 | 114.0 | 90.3  | 81.4  | 78.5  | 78.5  | 80.0  | 78.5  |
| 57.5° | 4316.6 | 3328.9 | 1319.4 | 216.2 | 106.6 | 82.9  | 75.5  | 71.1  | 71.1  | 71.1  | 71.1  |
| 60°   | 4325.5 | 3248.9 | 1357.9 | 189.5 | 97.7  | 75.5  | 68.1  | 62.2  | 63.7  | 63.7  | 63.7  |
| 62.5° | 4042.7 | 2828.4 | 1091.4 | 142.2 | 87.4  | 68.1  | 62.2  | 56.3  | 56.3  | 56.3  | 56.3  |
| 65°   | 3487.4 | 2200.5 | 639.7  | 112.5 | 75.5  | 60.7  | 54.8  | 50.3  | 50.3  | 50.3  | 48.9  |
| 66°   | 3226.7 | 1929.5 | 490.2  | 102.2 | 71.1  | 59.2  | 53.3  | 48.9  | 47.4  | 45.9  | 45.9  |
| 67.5° | 2801.7 | 1525.3 | 306.5  | 90.3  | 65.2  | 54.8  | 48.9  | 44.4  | 42.9  | 41.5  | 41.5  |
| 70°   | 2110.2 | 968.5  | 149.6  | 69.6  | 56.3  | 47.4  | 42.9  | 38.5  | 37.0  | 35.5  | 34.1  |
| 72.5° | 1480.8 | 567.2  | 78.5   | 53.3  | 45.9  | 41.5  | 37.0  | 32.6  | 31.1  | 29.6  | 29.6  |
| 75°   | 836.7  | 274.0  | 51.8   | 38.5  | 37.0  | 34.1  | 31.1  | 26.7  | 25.2  | 25.2  | 25.2  |
| 77.5° | 316.9  | 94.8   | 35.5   | 28.1  | 29.6  | 26.7  | 22.2  | 22.2  | 20.7  | 22.2  | 20.7  |
| 80°   | 82.9   | 41.5   | 22.2   | 20.7  | 22.2  | 19.3  | 16.3  | 17.8  | 17.8  | 17.8  | 17.8  |
| 82.5° | 44.4   | 23.7   | 13.3   | 14.8  | 13.3  | 13.3  | 10.4  | 11.8  | 13.3  | 11.8  | 13.3  |
| 85°   | 31.1   | 11.8   | 7.4    | 7.4   | 5.9   | 5.9   | 4.4   | 5.9   | 7.4   | 5.9   | 5.9   |
| 87.5° | 16.3   | 4.4    | 4.4    | 4.4   | 4.4   | 3.0   | 1.5   | 0.0   | 1.5   | 1.5   | 1.5   |
| 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)