

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: P1211422

Luminaire Tested: **ARCH4-270-730-U-T3RE-HSS**

Issue Date: 11/5/2025

### Test Information

Test Method: LM-79-08  
Report Number: P1211422  
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: ARCH4-270-730-U-T3RE-HSS  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 1045mA 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: 26419 lumens  
Efficiency: N/A  
Efficacy: 98.2 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 269  
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

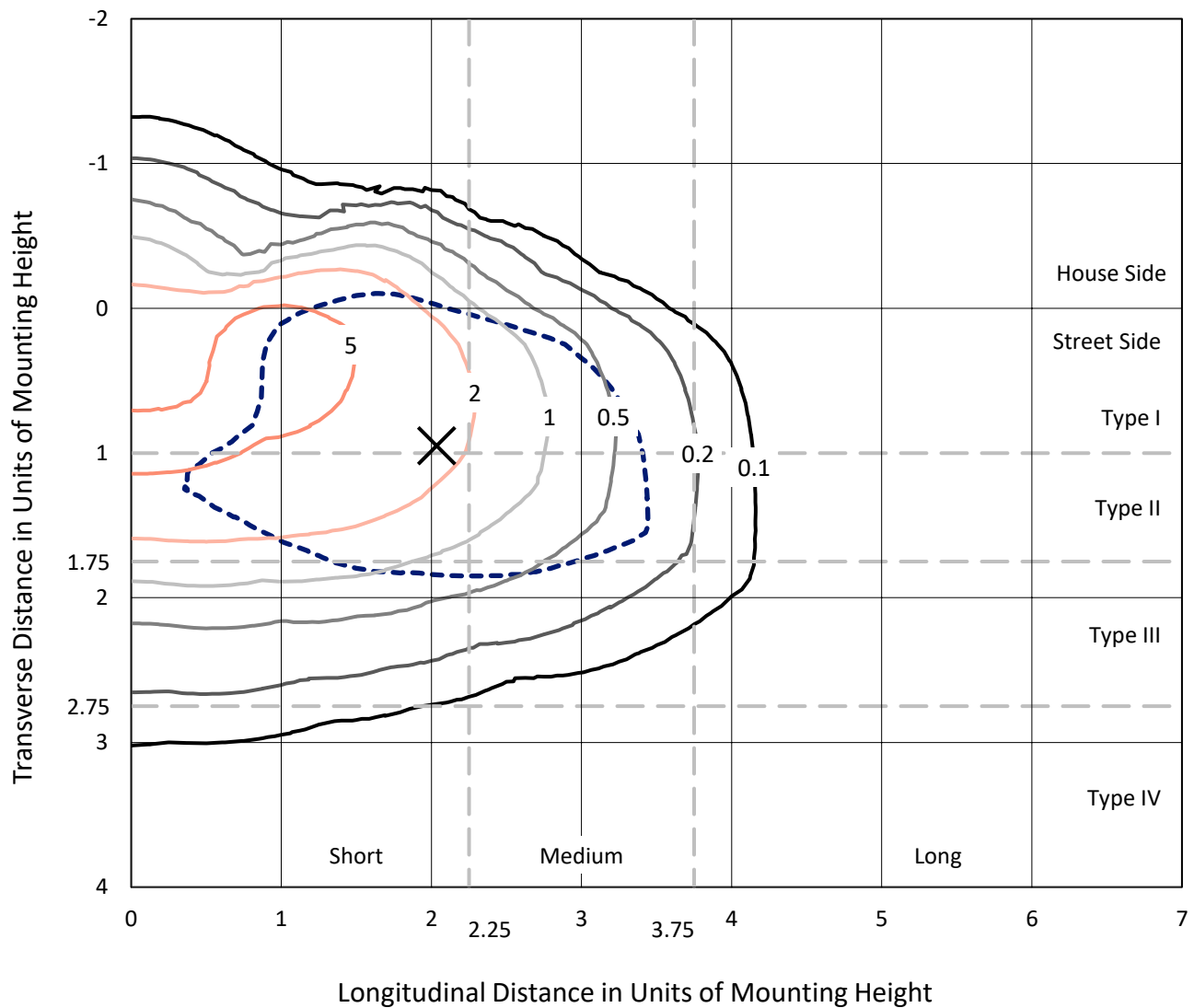


REPORT NUMBER: P1211422

CATALOG NUMBER: ARCH4-270-730-U-T3RE-HSS

## Iso-Footcandle Lines of Horizontal Illumination

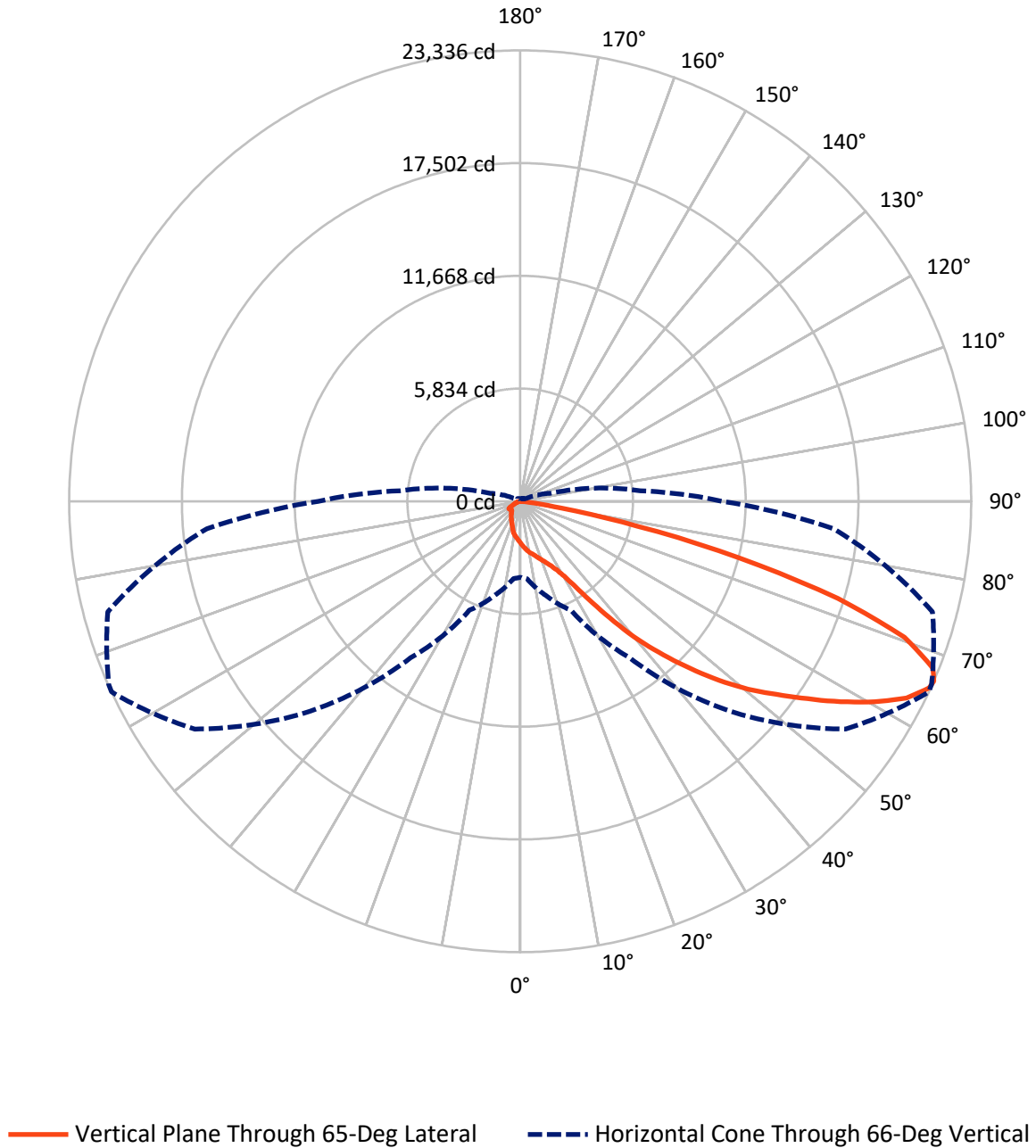
✕ Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc  
Type III - Short - N/A

REPORT NUMBER: P1211422  
CATALOG NUMBER: ARCH4-270-730-U-T3RE-HSS

## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3118.0   | 0.0    | 3118.0  |
|                    | % Fixture | 11.8     | 0.0    | 11.8    |
| <b>Street Side</b> | Lumens    | 23301.0  | 0.0    | 23301.0 |
|                    | % Fixture | 88.2     | 0.0    | 88.2    |
| <b>Total</b>       | Lumens    | 26419.0  | 0.0    | 26419.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 204.1   | 0.8       |
| 10°-20°   | 604.1   | 2.3       |
| 20°-30°   | 1105.6  | 4.2       |
| 30°-40°   | 2246.6  | 8.5       |
| 40°-50°   | 4744.1  | 18.0      |
| 50°-60°   | 7293.3  | 27.6      |
| 60°-70°   | 7341.2  | 27.8      |
| 70°-80°   | 2743.1  | 10.4      |
| 80°-90°   | 137.0   | 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°    | 26419.0 | 100.0     |
| 0°-180°   | 26419.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P1211422

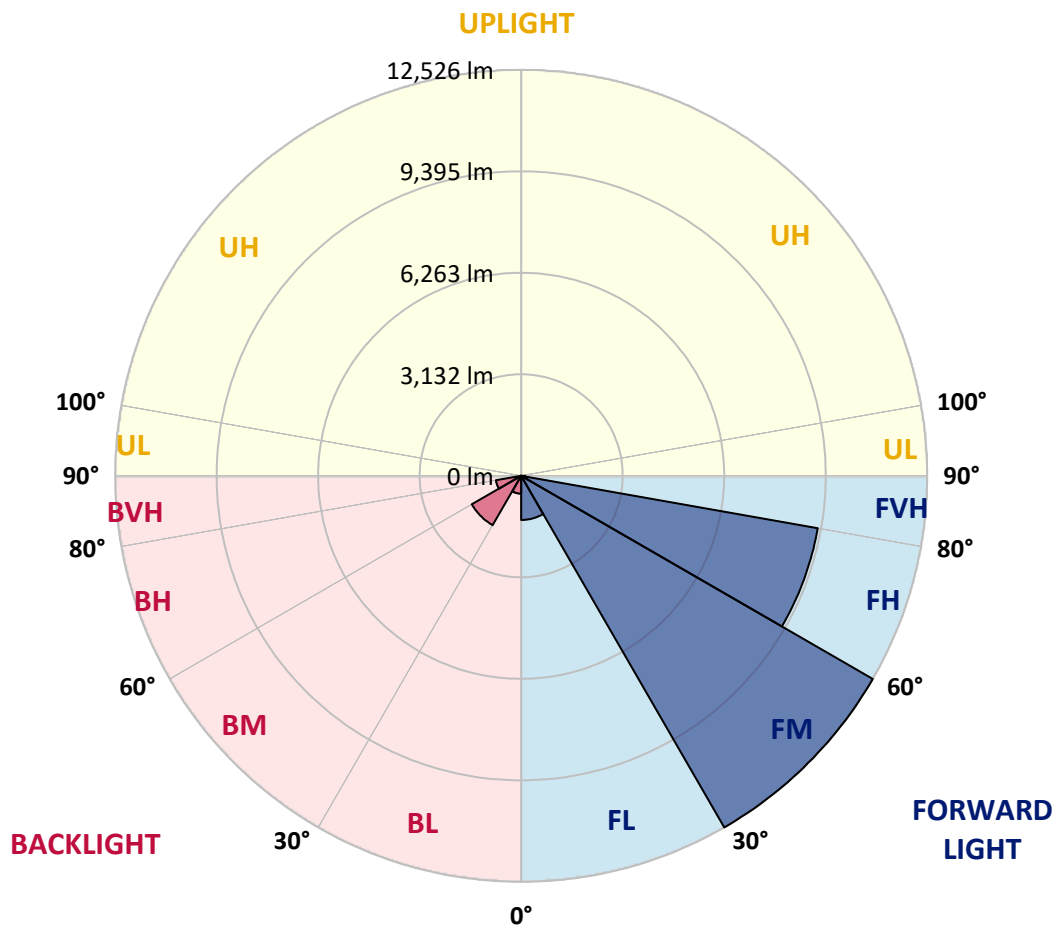
CATALOG NUMBER: ARCH4-270-730-U-T3RE-HSS

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1361.9  | 5.2       |                         |      |          |
| FM   | (30°-60°)   | 12526.0 | 47.4      |                         |      |          |
| FH   | (60°-80°)   | 9292.2  | 35.2      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 120.9   | 0.5       |                         |      | G2/225   |
| BL   | (0°-30°)    | 551.9   | 2.1       | B2/1000                 |      |          |
| BM   | (30°-60°)   | 1757.9  | 6.7       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 792.1   | 3.0       | B2/1000                 |      | G2/1000  |
| BVH  | (80°-90°)   | 16.1    | 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-G4**

Type III Short



REPORT NUMBER: P1211422

CATALOG NUMBER: ARCH4-270-730-U-T3RE-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 66°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2152.4  | 2152.4  | 2152.4  | 2152.4  | 2152.4  | 2152.4  | 2152.4  | 2152.4  | 2152.4  | 2152.4  | 2152.4  |
| 2.5°  | 2454.4  | 2459.2  | 2449.6  | 2430.4  | 2411.3  | 2387.3  | 2348.9  | 2286.6  | 2277.0  | 2233.9  | 2186.0  |
| 5°    | 2622.2  | 2631.8  | 2617.4  | 2612.6  | 2603.0  | 2569.5  | 2516.7  | 2425.7  | 2416.1  | 2329.8  | 2219.5  |
| 7.5°  | 2679.7  | 2694.1  | 2684.5  | 2684.5  | 2684.5  | 2670.1  | 2646.2  | 2564.7  | 2550.3  | 2440.0  | 2272.2  |
| 10°   | 2722.9  | 2732.5  | 2727.7  | 2746.8  | 2761.2  | 2751.6  | 2737.2  | 2689.3  | 2674.9  | 2564.7  | 2344.2  |
| 12.5° | 2790.0  | 2794.8  | 2799.6  | 2809.2  | 2833.1  | 2842.7  | 2837.9  | 2794.8  | 2785.2  | 2708.5  | 2435.2  |
| 15°   | 2852.3  | 2852.3  | 2857.1  | 2900.2  | 2933.8  | 2953.0  | 2957.8  | 2924.2  | 2914.6  | 2852.3  | 2550.3  |
| 17.5° | 2909.8  | 2914.6  | 2929.0  | 2976.9  | 3034.5  | 3072.8  | 3096.8  | 3082.4  | 3068.0  | 3020.1  | 2684.5  |
| 20°   | 2996.1  | 3005.7  | 3020.1  | 3087.2  | 3144.7  | 3207.0  | 3255.0  | 3250.2  | 3245.4  | 3211.8  | 2842.7  |
| 22.5° | 3144.7  | 3154.3  | 3178.3  | 3240.6  | 3298.1  | 3374.8  | 3456.3  | 3451.5  | 3437.1  | 3413.2  | 3029.7  |
| 25°   | 3370.0  | 3370.0  | 3384.4  | 3437.1  | 3509.0  | 3600.1  | 3676.8  | 3691.2  | 3676.8  | 3662.4  | 3264.6  |
| 27.5° | 3652.9  | 3657.7  | 3657.7  | 3715.2  | 3782.3  | 3897.3  | 3993.2  | 4007.6  | 4007.6  | 3993.2  | 3581.0  |
| 30°   | 4045.9  | 4031.6  | 4022.0  | 4069.9  | 4141.8  | 4309.6  | 4477.4  | 4506.1  | 4491.8  | 4515.7  | 4026.8  |
| 32.5° | 4721.9  | 4697.9  | 4616.4  | 4626.0  | 4669.1  | 4899.2  | 5182.1  | 5282.7  | 5277.9  | 5321.1  | 4745.8  |
| 35°   | 5656.7  | 5608.7  | 5488.9  | 5388.2  | 5383.4  | 5632.7  | 6064.1  | 6442.8  | 6438.0  | 6586.6  | 5838.8  |
| 37.5° | 6711.3  | 6773.6  | 6548.3  | 6375.7  | 6323.0  | 6519.5  | 7075.6  | 7895.3  | 7938.5  | 8197.4  | 7272.2  |
| 40°   | 8120.7  | 8159.0  | 7871.4  | 7626.9  | 7377.6  | 7449.5  | 8183.0  | 9458.1  | 9534.8  | 9822.4  | 8705.5  |
| 42.5° | 9347.9  | 9386.2  | 9218.4  | 8921.2  | 8604.8  | 8470.6  | 9299.9  | 10877.1 | 10939.4 | 11337.3 | 10182.0 |
| 45°   | 10182.0 | 10210.7 | 10268.3 | 10297.0 | 9937.5  | 9659.5  | 10666.2 | 12334.4 | 12411.1 | 12871.3 | 11624.9 |
| 47.5° | 10833.9 | 10857.9 | 10973.0 | 11260.6 | 11188.7 | 10968.2 | 12056.3 | 13849.2 | 13868.4 | 14381.3 | 13029.5 |
| 50°   | 11135.9 | 11193.5 | 11476.3 | 11917.3 | 12233.7 | 12296.0 | 13566.4 | 15282.6 | 15335.3 | 15824.3 | 14357.4 |
| 52.5° | 10800.4 | 10819.6 | 11533.8 | 12363.1 | 13000.7 | 13633.5 | 15081.2 | 16610.4 | 16763.8 | 17128.2 | 15551.0 |
| 55°   | 9669.0  | 9808.1  | 10891.5 | 12348.8 | 13604.7 | 14903.8 | 16701.5 | 18043.8 | 18182.8 | 18412.9 | 16600.8 |
| 57.5° | 8355.6  | 8509.0  | 9827.2  | 11730.4 | 13863.6 | 16078.3 | 18202.0 | 19568.2 | 19664.1 | 19726.4 | 17564.4 |
| 60°   | 7219.4  | 7363.2  | 8719.9  | 10546.3 | 13604.7 | 16907.6 | 19597.0 | 21083.0 | 21164.5 | 20996.7 | 18048.6 |
| 62.5° | 5824.4  | 5968.3  | 7334.5  | 8978.7  | 12588.5 | 17075.4 | 20632.4 | 22430.1 | 22463.6 | 22008.2 | 17751.4 |
| 65°   | 4391.1  | 4487.0  | 5627.9  | 7037.3  | 10810.0 | 16183.8 | 20867.3 | 23269.0 | 23235.4 | 22300.6 | 16859.7 |
| 66°   | 3935.7  | 4017.2  | 5023.9  | 6222.3  | 9884.8  | 15368.8 | 20550.9 | 23336.1 | 23302.5 | 22084.9 | 16274.9 |
| 67.5° | 3394.0  | 3418.0  | 4247.3  | 5091.0  | 8269.3  | 13638.3 | 19587.4 | 23029.3 | 23058.1 | 21490.5 | 15205.9 |
| 70°   | 2651.0  | 2646.2  | 3125.5  | 3542.6  | 5647.1  | 9702.6  | 16337.2 | 21097.4 | 21236.4 | 19247.0 | 12967.2 |
| 72.5° | 1697.0  | 1639.5  | 1917.5  | 2166.8  | 3288.5  | 5632.7  | 11912.5 | 17195.3 | 17430.2 | 15119.6 | 9659.5  |
| 75°   | 1011.5  | 954.0   | 1021.1  | 1083.4  | 1577.2  | 2708.5  | 7003.7  | 11701.6 | 11926.9 | 9693.0  | 5747.7  |
| 77.5° | 757.4   | 733.4   | 738.2   | 685.5   | 699.9   | 1016.3  | 3197.4  | 6184.0  | 6347.0  | 3969.2  | 2181.2  |
| 80°   | 580.0   | 517.7   | 484.2   | 508.1   | 460.2   | 402.7   | 1188.9  | 2128.4  | 2229.1  | 939.6   | 455.4   |
| 82.5° | 388.3   | 335.6   | 311.6   | 340.4   | 292.4   | 225.3   | 287.6   | 412.3   | 402.7   | 254.1   | 177.4   |
| 85°   | 201.3   | 172.6   | 172.6   | 172.6   | 148.6   | 110.3   | 124.6   | 167.8   | 167.8   | 134.2   | 105.5   |
| 87.5° | 57.5    | 52.7    | 62.3    | 57.5    | 43.1    | 43.1    | 47.9    | 57.5    | 57.5    | 52.7    | 47.9    |
| 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: P1211422

CATALOG NUMBER: ARCH4-270-730-U-T3RE-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2152.4  | 2152.4  | 2152.4 | 2152.4 | 2152.4 | 2152.4 | 2152.4 | 2152.4 | 2152.4 | 2152.4 | 2152.4 |
| 2.5°  | 2147.6  | 2128.4  | 2075.7 | 2037.4 | 1999.0 | 1965.4 | 1927.1 | 1917.5 | 1898.3 | 1903.1 | 1893.5 |
| 5°    | 2162.0  | 2109.3  | 2018.2 | 1931.9 | 1864.8 | 1807.3 | 1735.3 | 1706.6 | 1668.2 | 1653.9 | 1644.3 |
| 7.5°  | 2181.2  | 2104.5  | 1970.2 | 1850.4 | 1735.3 | 1620.3 | 1505.2 | 1438.1 | 1395.0 | 1375.8 | 1361.4 |
| 10°   | 2224.3  | 2123.6  | 1946.3 | 1759.3 | 1562.8 | 1399.8 | 1284.7 | 1236.8 | 1208.0 | 1203.2 | 1198.4 |
| 12.5° | 2281.8  | 2152.4  | 1922.3 | 1644.3 | 1385.4 | 1232.0 | 1160.1 | 1145.7 | 1140.9 | 1140.9 | 1136.1 |
| 15°   | 2368.1  | 2200.3  | 1884.0 | 1510.0 | 1246.4 | 1140.9 | 1107.4 | 1083.4 | 1073.8 | 1073.8 | 1073.8 |
| 17.5° | 2454.4  | 2257.9  | 1826.4 | 1371.0 | 1150.5 | 1083.4 | 1049.8 | 1035.5 | 1025.9 | 1030.7 | 1025.9 |
| 20°   | 2564.7  | 2325.0  | 1749.7 | 1251.2 | 1088.2 | 1035.5 | 1001.9 | 987.5  | 982.7  | 982.7  | 982.7  |
| 22.5° | 2689.3  | 2401.7  | 1653.9 | 1160.1 | 1035.5 | 987.5  | 954.0  | 939.6  | 930.0  | 934.8  | 934.8  |
| 25°   | 2857.1  | 2497.6  | 1553.2 | 1069.0 | 982.7  | 939.6  | 901.2  | 882.1  | 882.1  | 886.8  | 891.6  |
| 27.5° | 3072.8  | 2612.6  | 1452.5 | 1011.5 | 934.8  | 891.6  | 848.5  | 829.3  | 834.1  | 843.7  | 843.7  |
| 30°   | 3389.2  | 2770.8  | 1351.8 | 949.2  | 882.1  | 834.1  | 795.8  | 776.6  | 786.2  | 805.4  | 805.4  |
| 32.5° | 3839.8  | 3029.7  | 1265.6 | 877.3  | 805.4  | 752.6  | 714.3  | 699.9  | 723.9  | 762.2  | 762.2  |
| 35°   | 4645.2  | 3504.2  | 1212.8 | 805.4  | 723.9  | 661.5  | 613.6  | 599.2  | 632.8  | 680.7  | 680.7  |
| 37.5° | 5723.8  | 4266.5  | 1232.0 | 743.0  | 656.7  | 584.8  | 532.1  | 512.9  | 536.9  | 580.0  | 594.4  |
| 40°   | 6927.0  | 5186.9  | 1399.8 | 690.3  | 594.4  | 522.5  | 469.8  | 450.6  | 465.0  | 484.2  | 489.0  |
| 42.5° | 8130.2  | 6164.8  | 1716.2 | 652.0  | 546.5  | 469.8  | 421.9  | 407.5  | 417.1  | 421.9  | 426.6  |
| 45°   | 9328.7  | 7133.1  | 2114.1 | 628.0  | 503.3  | 426.6  | 378.7  | 378.7  | 383.5  | 383.5  | 383.5  |
| 47.5° | 10464.8 | 8077.5  | 2531.1 | 623.2  | 465.0  | 383.5  | 345.2  | 349.9  | 349.9  | 354.7  | 354.7  |
| 50°   | 11538.6 | 8921.2  | 2953.0 | 637.6  | 431.4  | 345.2  | 316.4  | 316.4  | 316.4  | 321.2  | 316.4  |
| 52.5° | 12435.1 | 9659.5  | 3394.0 | 661.5  | 397.9  | 316.4  | 287.6  | 287.6  | 287.6  | 292.4  | 287.6  |
| 55°   | 13283.6 | 10330.6 | 3844.6 | 695.1  | 369.1  | 292.4  | 263.7  | 254.1  | 254.1  | 258.9  | 254.1  |
| 57.5° | 13973.9 | 10776.4 | 4271.3 | 699.9  | 345.2  | 268.5  | 244.5  | 230.1  | 230.1  | 230.1  | 230.1  |
| 60°   | 14002.6 | 10517.5 | 4395.9 | 613.6  | 316.4  | 244.5  | 220.5  | 201.3  | 206.1  | 206.1  | 206.1  |
| 62.5° | 13087.0 | 9156.1  | 3533.0 | 460.2  | 282.8  | 220.5  | 201.3  | 182.2  | 182.2  | 182.2  | 182.2  |
| 65°   | 11289.3 | 7123.6  | 2070.9 | 364.3  | 244.5  | 196.5  | 177.4  | 163.0  | 163.0  | 163.0  | 158.2  |
| 66°   | 10445.6 | 6246.3  | 1586.7 | 330.8  | 230.1  | 191.8  | 172.6  | 158.2  | 153.4  | 148.6  | 148.6  |
| 67.5° | 9069.8  | 4937.6  | 992.3  | 292.4  | 210.9  | 177.4  | 158.2  | 143.8  | 139.0  | 134.2  | 134.2  |
| 70°   | 6831.1  | 3135.1  | 484.2  | 225.3  | 182.2  | 153.4  | 139.0  | 124.6  | 119.8  | 115.1  | 110.3  |
| 72.5° | 4793.8  | 1836.0  | 254.1  | 172.6  | 148.6  | 134.2  | 119.8  | 105.5  | 100.7  | 95.9   | 95.9   |
| 75°   | 2708.5  | 886.8   | 167.8  | 124.6  | 119.8  | 110.3  | 100.7  | 86.3   | 81.5   | 81.5   | 81.5   |
| 77.5° | 1025.9  | 306.8   | 115.1  | 91.1   | 95.9   | 86.3   | 71.9   | 71.9   | 67.1   | 71.9   | 67.1   |
| 80°   | 268.5   | 134.2   | 71.9   | 67.1   | 71.9   | 62.3   | 52.7   | 57.5   | 57.5   | 57.5   | 57.5   |
| 82.5° | 143.8   | 76.7    | 43.1   | 47.9   | 43.1   | 43.1   | 33.6   | 38.4   | 43.1   | 38.4   | 43.1   |
| 85°   | 100.7   | 38.4    | 24.0   | 24.0   | 19.2   | 19.2   | 14.4   | 19.2   | 24.0   | 19.2   | 19.2   |
| 87.5° | 52.7    | 14.4    | 14.4   | 14.4   | 14.4   | 9.6    | 4.8    | 0.0    | 4.8    | 4.8    | 4.8    |
| 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)