

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: P1210653

Luminaire Tested: **ARCH3-190-730-U-T2RE**

Issue Date: 11/5/2025

### Test Information

Test Method: LM-79-08  
Report Number: P1210653  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/5/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH3-190-730-U-T2RE  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 1440mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY  
ILLUMINANCE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 23936 lumens  
Efficiency: N/A  
Efficacy: 126.4 lumens/watt  
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 189.4  
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

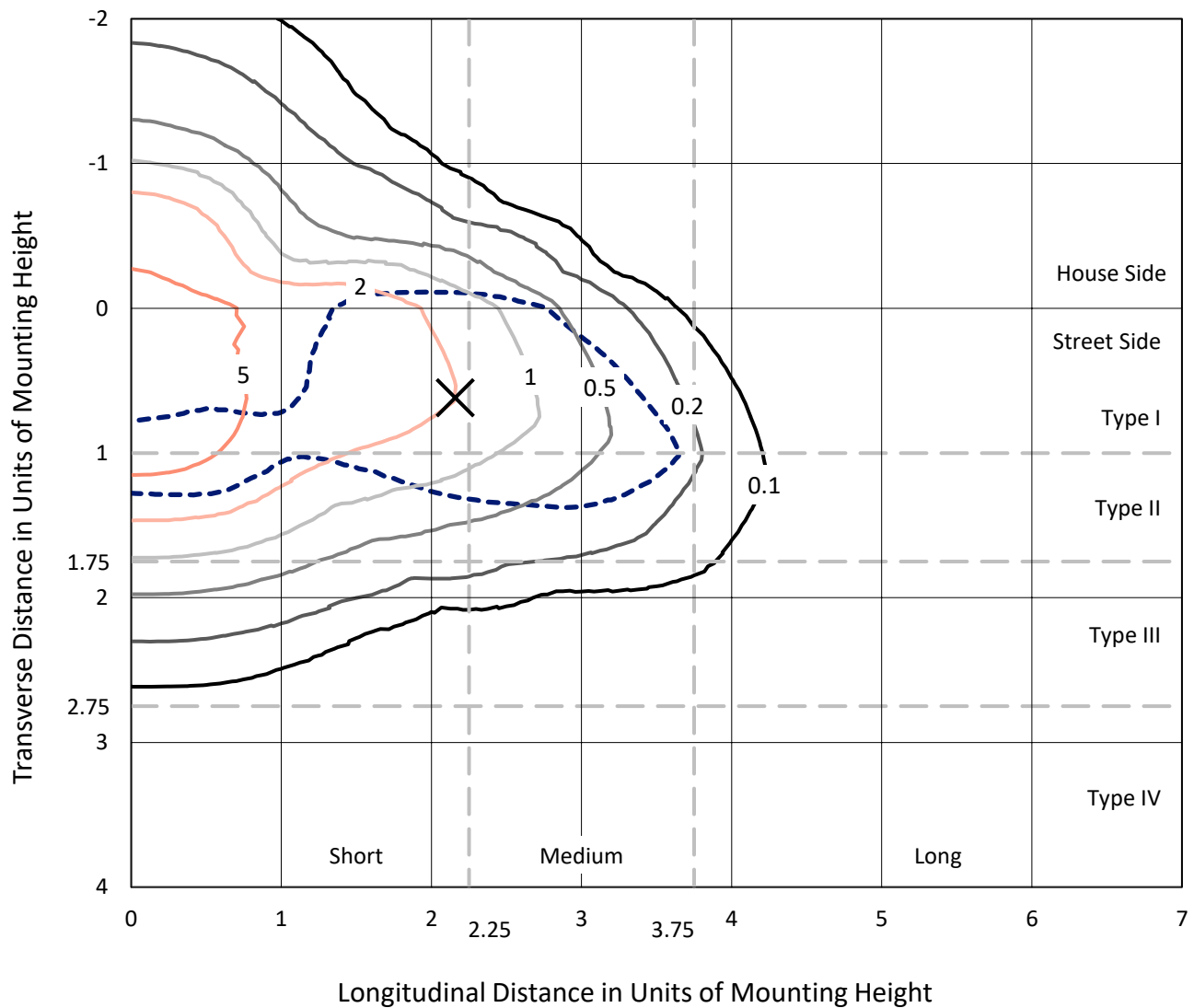


REPORT NUMBER: P1210653

CATALOG NUMBER: ARCH3-190-730-U-T2RE

## Iso-Footcandle Lines of Horizontal Illumination

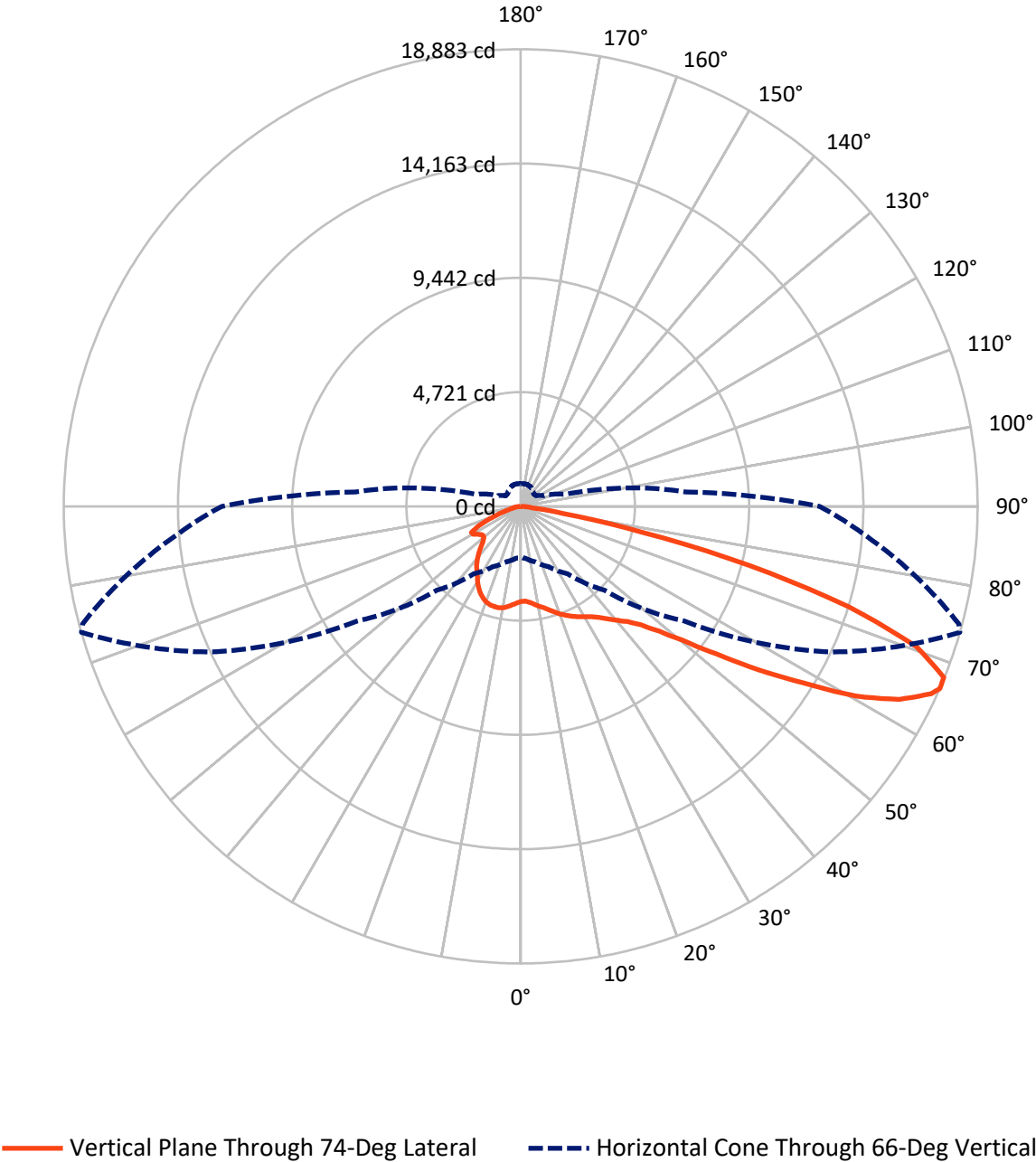
✕ Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc  
Type II - Short - N/A

REPORT NUMBER: P1210653  
CATALOG NUMBER: ARCH3-190-730-U-T2RE

Luminous Intensity Polar Plot



REPORT NUMBER: P1210653

CATALOG NUMBER: ARCH3-190-730-U-T2RE

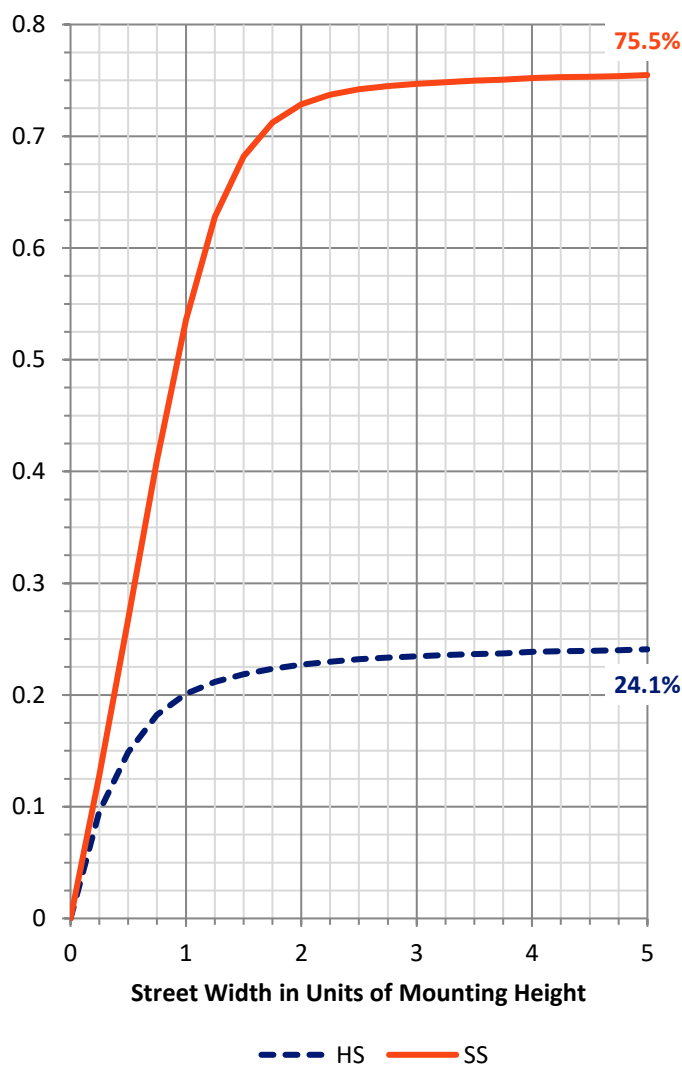
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5829.1   | 0.0    | 5829.1  |
|                    | % Fixture | 24.4     | 0.0    | 24.4    |
| <b>Street Side</b> | Lumens    | 18106.9  | 0.0    | 18106.9 |
|                    | % Fixture | 75.6     | 0.0    | 75.6    |
| <b>Total</b>       | Lumens    | 23936.0  | 0.0    | 23936.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 374.3   | 1.6       |
| 10°-20°   | 1151.1  | 4.8       |
| 20°-30°   | 2160.0  | 9.0       |
| 30°-40°   | 3322.6  | 13.9      |
| 40°-50°   | 4469.2  | 18.7      |
| 50°-60°   | 5285.3  | 22.1      |
| 60°-70°   | 4889.2  | 20.4      |
| 70°-80°   | 2056.9  | 8.6       |
| 80°-90°   | 227.6   | 1.0       |
| 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°    | 23936.0 | 100.0     |
| 0°-180°   | 23936.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P1210653

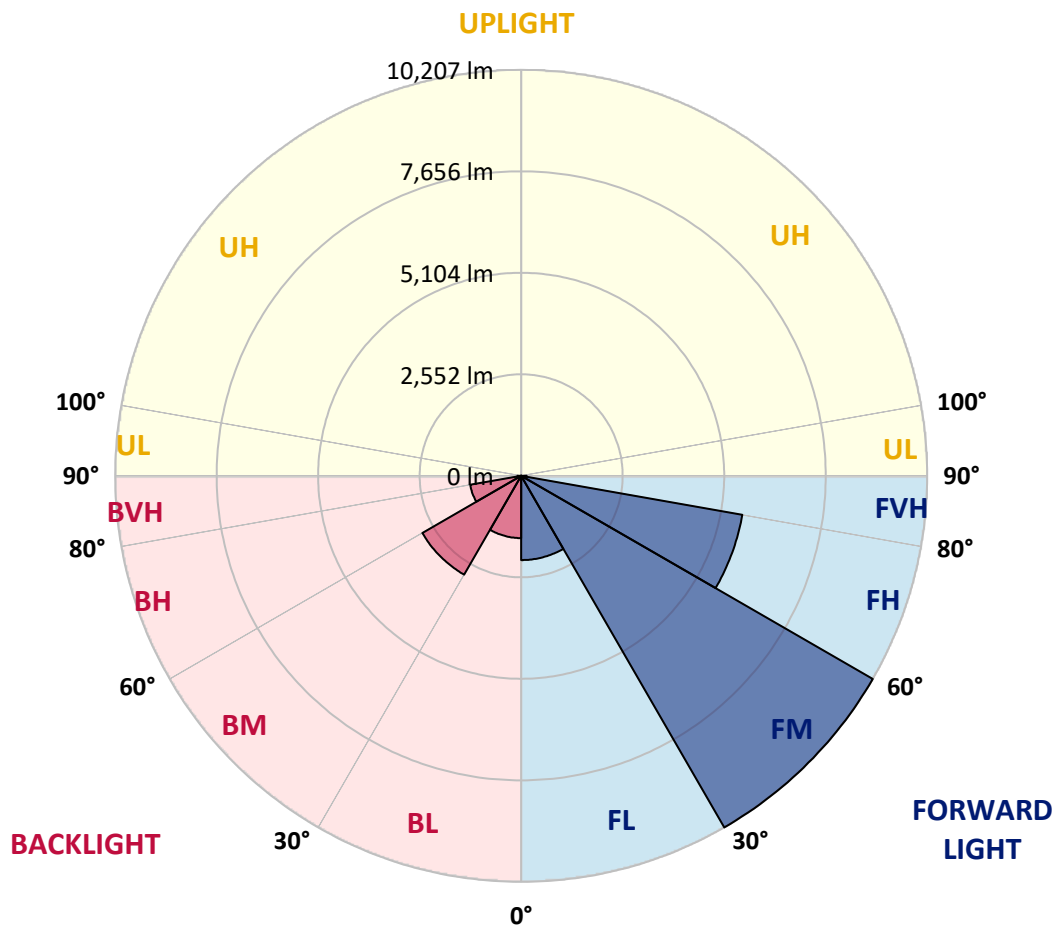
CATALOG NUMBER: ARCH3-190-730-U-T2RE

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2118.6  | 8.9       |                         |      |         |
| FM   | (30°-60°)   | 10207.4 | 42.6      |                         |      |         |
| FH   | (60°-80°)   | 5644.8  | 23.6      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 136.2   | 0.6       |                         |      | G2/225  |
| BL   | (0°-30°)    | 1566.7  | 6.5       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2869.7  | 12.0      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1301.3  | 5.4       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 91.4    | 0.4       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type II Short



REPORT NUMBER: P1210653

CATALOG NUMBER: ARCH3-190-730-U-T2RE

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 74°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3923.9  | 3923.9  | 3923.9  | 3923.9  | 3923.9  | 3923.9  | 3923.9  | 3923.9  | 3923.9  | 3923.9  | 3923.9  |
| 2.5°  | 3911.6  | 3905.4  | 3917.7  | 3936.2  | 3945.5  | 3930.1  | 3923.9  | 3920.8  | 3920.8  | 3911.6  | 3927.0  |
| 5°    | 3726.8  | 3723.7  | 3751.4  | 3785.3  | 3850.0  | 3896.2  | 3957.8  | 3994.7  | 3982.4  | 3963.9  | 3976.3  |
| 7.5°  | 3486.5  | 3480.4  | 3514.3  | 3578.9  | 3668.3  | 3769.9  | 3920.8  | 4037.9  | 4084.1  | 4077.9  | 4074.8  |
| 10°   | 3578.9  | 3572.8  | 3569.7  | 3551.2  | 3582.0  | 3680.6  | 3837.7  | 4044.0  | 4201.1  | 4204.2  | 4207.3  |
| 12.5° | 3899.3  | 3914.7  | 3899.3  | 3840.7  | 3773.0  | 3736.0  | 3828.4  | 4059.4  | 4299.7  | 4318.1  | 4395.1  |
| 15°   | 4336.6  | 4321.2  | 4290.4  | 4222.7  | 4117.9  | 4007.1  | 3939.3  | 4130.3  | 4441.3  | 4456.7  | 4626.1  |
| 17.5° | 4721.6  | 4733.9  | 4715.5  | 4650.8  | 4527.6  | 4382.8  | 4176.5  | 4253.5  | 4592.3  | 4635.4  | 4872.5  |
| 20°   | 5140.5  | 5189.8  | 5165.1  | 5085.1  | 4983.4  | 4767.8  | 4509.1  | 4432.1  | 4758.6  | 4789.4  | 5128.2  |
| 22.5° | 5624.1  | 5676.4  | 5630.2  | 5553.2  | 5470.1  | 5205.2  | 4872.5  | 4650.8  | 4897.2  | 4961.9  | 5374.6  |
| 25°   | 6203.1  | 6252.4  | 6209.3  | 6089.1  | 5984.4  | 5661.0  | 5263.7  | 4897.2  | 5032.7  | 5103.5  | 5574.8  |
| 27.5° | 6662.0  | 6699.0  | 6739.0  | 6668.2  | 6508.0  | 6172.3  | 5670.3  | 5152.8  | 5168.2  | 5242.1  | 5759.6  |
| 30°   | 7071.7  | 7164.1  | 7197.9  | 7207.2  | 7071.7  | 6695.9  | 6086.1  | 5417.7  | 5285.3  | 5362.3  | 5944.4  |
| 32.5° | 7632.2  | 7770.8  | 7715.4  | 7770.8  | 7690.7  | 7188.7  | 6517.3  | 5691.8  | 5436.2  | 5507.0  | 6119.9  |
| 35°   | 8451.5  | 8562.4  | 8417.6  | 8374.5  | 8245.1  | 7687.7  | 6933.1  | 5975.2  | 5636.4  | 5713.4  | 6286.3  |
| 37.5° | 9332.4  | 9458.6  | 9249.2  | 9076.7  | 8830.3  | 8180.5  | 7290.3  | 6347.9  | 5913.6  | 5975.2  | 6440.3  |
| 40°   | 10102.4 | 10207.1 | 10025.4 | 9797.4  | 9384.7  | 8614.7  | 7598.3  | 6609.7  | 6190.8  | 6267.8  | 6618.9  |
| 42.5° | 10813.8 | 10881.6 | 10678.3 | 10459.6 | 9908.3  | 9005.9  | 7931.0  | 6886.9  | 6514.2  | 6588.1  | 6763.7  |
| 45°   | 11534.6 | 11586.9 | 11303.6 | 10992.5 | 10345.7 | 9363.2  | 8297.5  | 7274.9  | 6988.5  | 7087.1  | 6997.7  |
| 47.5° | 11663.9 | 11679.3 | 11630.0 | 11420.6 | 10690.6 | 9705.0  | 8750.2  | 7795.5  | 7712.3  | 7820.1  | 7401.2  |
| 50°   | 10767.6 | 10906.2 | 11211.2 | 11417.5 | 10829.2 | 9991.5  | 9203.0  | 8540.8  | 8710.2  | 8848.8  | 8239.0  |
| 52.5° | 9027.4  | 9159.9  | 9865.2  | 10647.5 | 10496.6 | 10056.2 | 9689.6  | 9486.4  | 10117.8 | 10284.1 | 9378.6  |
| 55°   | 7191.8  | 7308.8  | 8054.2  | 9181.4  | 9421.7  | 9760.5  | 10210.2 | 10693.7 | 11913.4 | 12024.3 | 10629.0 |
| 57.5° | 5922.8  | 5987.5  | 6520.3  | 7604.5  | 7989.5  | 8814.9  | 10490.4 | 12129.0 | 13739.8 | 13909.2 | 11716.3 |
| 60°   | 4857.1  | 4928.0  | 5325.3  | 6218.5  | 6729.8  | 7462.8  | 10268.7 | 13545.8 | 15920.5 | 15920.5 | 13111.5 |
| 62.5° | 3655.9  | 3717.5  | 4087.1  | 4786.3  | 5645.6  | 6317.1  | 9560.3  | 14485.2 | 17565.2 | 17491.3 | 14121.8 |
| 65°   | 2510.2  | 2559.5  | 2827.4  | 3292.5  | 4065.6  | 5383.8  | 8593.2  | 14497.5 | 18655.5 | 18556.9 | 14552.9 |
| 66°   | 2106.7  | 2149.8  | 2377.8  | 2753.5  | 3403.4  | 4884.9  | 8251.3  | 14235.7 | 18883.4 | 18744.8 | 14371.2 |
| 67.5° | 1663.2  | 1694.0  | 1844.9  | 2066.7  | 2494.8  | 3954.7  | 7712.3  | 13493.4 | 18861.9 | 18778.7 | 13909.2 |
| 70°   | 1188.9  | 1210.4  | 1321.3  | 1367.5  | 1475.3  | 2288.4  | 6126.1  | 11817.9 | 17349.6 | 17374.2 | 12092.0 |
| 72.5° | 920.9   | 954.8   | 1022.6  | 1031.8  | 1007.2  | 1216.6  | 3717.5  | 9859.0  | 14192.6 | 14183.4 | 8975.1  |
| 75°   | 742.3   | 760.8   | 794.6   | 813.1   | 807.0   | 785.4   | 1573.9  | 7355.0  | 9769.7  | 9883.7  | 5026.5  |
| 77.5° | 585.2   | 582.1   | 612.9   | 637.6   | 656.0   | 616.0   | 720.7   | 4312.0  | 5122.0  | 4977.3  | 1888.0  |
| 80°   | 431.2   | 431.2   | 474.3   | 483.6   | 511.3   | 517.4   | 480.5   | 1663.2  | 1758.7  | 1598.5  | 489.7   |
| 82.5° | 283.4   | 283.4   | 329.6   | 335.7   | 363.4   | 403.5   | 348.0   | 499.0   | 486.6   | 462.0   | 221.8   |
| 85°   | 154.0   | 147.8   | 163.2   | 184.8   | 200.2   | 237.2   | 209.4   | 249.5   | 255.6   | 252.6   | 147.8   |
| 87.5° | 30.8    | 27.7    | 43.1    | 49.3    | 55.4    | 73.9    | 67.8    | 101.6   | 141.7   | 138.6   | 64.7    |
| 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: P1210653

CATALOG NUMBER: ARCH3-190-730-U-T2RE

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3923.9  | 3923.9 | 3923.9 | 3923.9 | 3923.9 | 3923.9 | 3923.9 | 3923.9 | 3923.9 | 3923.9 | 3923.9 |
| 2.5°  | 3948.5  | 3945.5 | 3979.3 | 4019.4 | 4065.6 | 4093.3 | 4105.6 | 4127.2 | 4111.8 | 4117.9 | 4136.4 |
| 5°    | 4007.1  | 4016.3 | 4065.6 | 4117.9 | 4139.5 | 4124.1 | 4090.2 | 4077.9 | 4050.2 | 4044.0 | 4037.9 |
| 7.5°  | 4093.3  | 4108.7 | 4158.0 | 4170.3 | 4105.6 | 3997.8 | 3920.8 | 3877.7 | 3831.5 | 3819.2 | 3813.0 |
| 10°   | 4235.0  | 4244.2 | 4256.5 | 4130.3 | 3970.1 | 3825.3 | 3729.9 | 3689.8 | 3659.0 | 3634.4 | 3640.5 |
| 12.5° | 4413.6  | 4407.5 | 4312.0 | 4050.2 | 3822.3 | 3674.4 | 3609.7 | 3585.1 | 3563.5 | 3548.1 | 3545.1 |
| 15°   | 4638.5  | 4595.3 | 4321.2 | 3939.3 | 3683.7 | 3560.5 | 3514.3 | 3505.0 | 3480.4 | 3480.4 | 3477.3 |
| 17.5° | 4866.4  | 4755.5 | 4315.1 | 3822.3 | 3551.2 | 3483.5 | 3455.7 | 3449.6 | 3443.4 | 3440.3 | 3449.6 |
| 20°   | 5094.3  | 4897.2 | 4265.8 | 3677.5 | 3458.8 | 3418.8 | 3412.6 | 3415.7 | 3409.5 | 3418.8 | 3412.6 |
| 22.5° | 5294.5  | 4989.6 | 4173.4 | 3523.5 | 3394.1 | 3391.1 | 3375.7 | 3381.8 | 3403.4 | 3406.5 | 3415.7 |
| 25°   | 5448.5  | 5023.5 | 4037.9 | 3381.8 | 3347.9 | 3341.8 | 3360.3 | 3384.9 | 3403.4 | 3406.5 | 3421.9 |
| 27.5° | 5574.8  | 5005.0 | 3868.5 | 3270.9 | 3267.9 | 3301.7 | 3357.2 | 3366.4 | 3369.5 | 3369.5 | 3357.2 |
| 30°   | 5670.3  | 4964.9 | 3652.9 | 3147.7 | 3163.1 | 3246.3 | 3298.7 | 3298.7 | 3274.0 | 3267.9 | 3286.3 |
| 32.5° | 5691.8  | 4912.6 | 3418.8 | 3021.5 | 3046.1 | 3144.7 | 3209.3 | 3187.8 | 3160.1 | 3160.1 | 3172.4 |
| 35°   | 5710.3  | 4841.7 | 3230.9 | 2849.0 | 2885.9 | 3003.0 | 3064.6 | 3021.5 | 2990.7 | 2981.4 | 2978.3 |
| 37.5° | 5704.1  | 4814.0 | 3061.5 | 2630.3 | 2679.6 | 2793.6 | 2833.6 | 2793.6 | 2747.4 | 2725.8 | 2753.5 |
| 40°   | 5710.3  | 4795.5 | 2849.0 | 2390.1 | 2439.4 | 2507.1 | 2559.5 | 2528.7 | 2485.6 | 2430.1 | 2457.8 |
| 42.5° | 5747.3  | 4820.2 | 2614.9 | 2156.0 | 2156.0 | 2193.0 | 2282.3 | 2260.7 | 2156.0 | 2134.4 | 2159.1 |
| 45°   | 5944.4  | 4952.6 | 2380.8 | 1921.9 | 1888.0 | 1912.7 | 2005.1 | 1912.7 | 1848.0 | 1848.0 | 1869.6 |
| 47.5° | 6421.8  | 5199.0 | 2174.5 | 1715.6 | 1635.5 | 1684.8 | 1709.4 | 1623.2 | 1573.9 | 1561.6 | 1583.1 |
| 50°   | 7395.1  | 5691.8 | 2051.3 | 1546.2 | 1447.6 | 1484.6 | 1469.2 | 1466.1 | 1416.8 | 1423.0 | 1435.3 |
| 52.5° | 8873.4  | 6652.8 | 2014.3 | 1463.0 | 1339.8 | 1349.0 | 1333.6 | 1339.8 | 1330.6 | 1361.4 | 1370.6 |
| 55°   | 10484.3 | 7666.1 | 2060.5 | 1475.3 | 1265.9 | 1201.2 | 1207.4 | 1238.2 | 1275.1 | 1324.4 | 1333.6 |
| 57.5° | 11688.6 | 8174.3 | 2180.6 | 1558.5 | 1173.5 | 1074.9 | 1090.3 | 1148.8 | 1219.7 | 1259.7 | 1281.3 |
| 60°   | 12584.8 | 8112.7 | 2356.2 | 1580.0 | 1062.6 | 961.0  | 988.7  | 1074.9 | 1136.5 | 1170.4 | 1192.0 |
| 62.5° | 12877.4 | 7727.7 | 2399.3 | 1423.0 | 917.8  | 853.2  | 920.9  | 1010.2 | 1038.0 | 1074.9 | 1090.3 |
| 65°   | 12637.2 | 7182.5 | 2085.2 | 1155.0 | 807.0  | 773.1  | 871.6  | 939.4  | 976.4  | 994.8  | 997.9  |
| 66°   | 12353.8 | 6856.1 | 1915.8 | 1050.3 | 766.9  | 748.4  | 853.2  | 908.6  | 945.6  | 942.5  | 945.6  |
| 67.5° | 11731.7 | 6172.3 | 1641.6 | 902.4  | 708.4  | 711.5  | 822.4  | 859.3  | 871.6  | 862.4  | 862.4  |
| 70°   | 9615.7  | 4345.9 | 1176.6 | 683.8  | 622.2  | 665.3  | 739.2  | 748.4  | 776.2  | 763.8  | 763.8  |
| 72.5° | 5929.0  | 2134.4 | 788.5  | 523.6  | 554.4  | 622.2  | 619.1  | 649.9  | 714.6  | 733.0  | 745.4  |
| 75°   | 2913.7  | 865.5  | 520.5  | 443.5  | 495.9  | 520.5  | 514.4  | 591.4  | 683.8  | 763.8  | 791.6  |
| 77.5° | 1105.7  | 431.2  | 363.4  | 388.1  | 400.4  | 391.2  | 409.6  | 535.9  | 683.8  | 828.5  | 856.2  |
| 80°   | 341.9   | 298.8  | 286.4  | 320.3  | 301.8  | 286.4  | 308.0  | 443.5  | 579.0  | 628.3  | 628.3  |
| 82.5° | 206.4   | 234.1  | 221.8  | 218.7  | 203.3  | 206.4  | 221.8  | 317.2  | 446.6  | 468.2  | 468.2  |
| 85°   | 144.8   | 154.0  | 126.3  | 120.1  | 117.0  | 114.0  | 114.0  | 184.8  | 264.9  | 261.8  | 271.0  |
| 87.5° | 55.4    | 61.6   | 46.2   | 46.2   | 43.1   | 30.8   | 24.6   | 30.8   | 30.8   | 21.6   | 15.4   |
| 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)