

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: P1210533

Luminaire Tested: **ARCH3-150-740-U-T2RE**

Issue Date: 11/5/2025

### Test Information

Test Method: LM-79-08  
Report Number: P1210533  
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: ARCH3-150-740-U-T2RE  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 4000K, 1170mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY  
ILLUMINANCE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 21726 lumens  
Efficiency: N/A  
Efficacy: 144.2 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): 150.7  
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

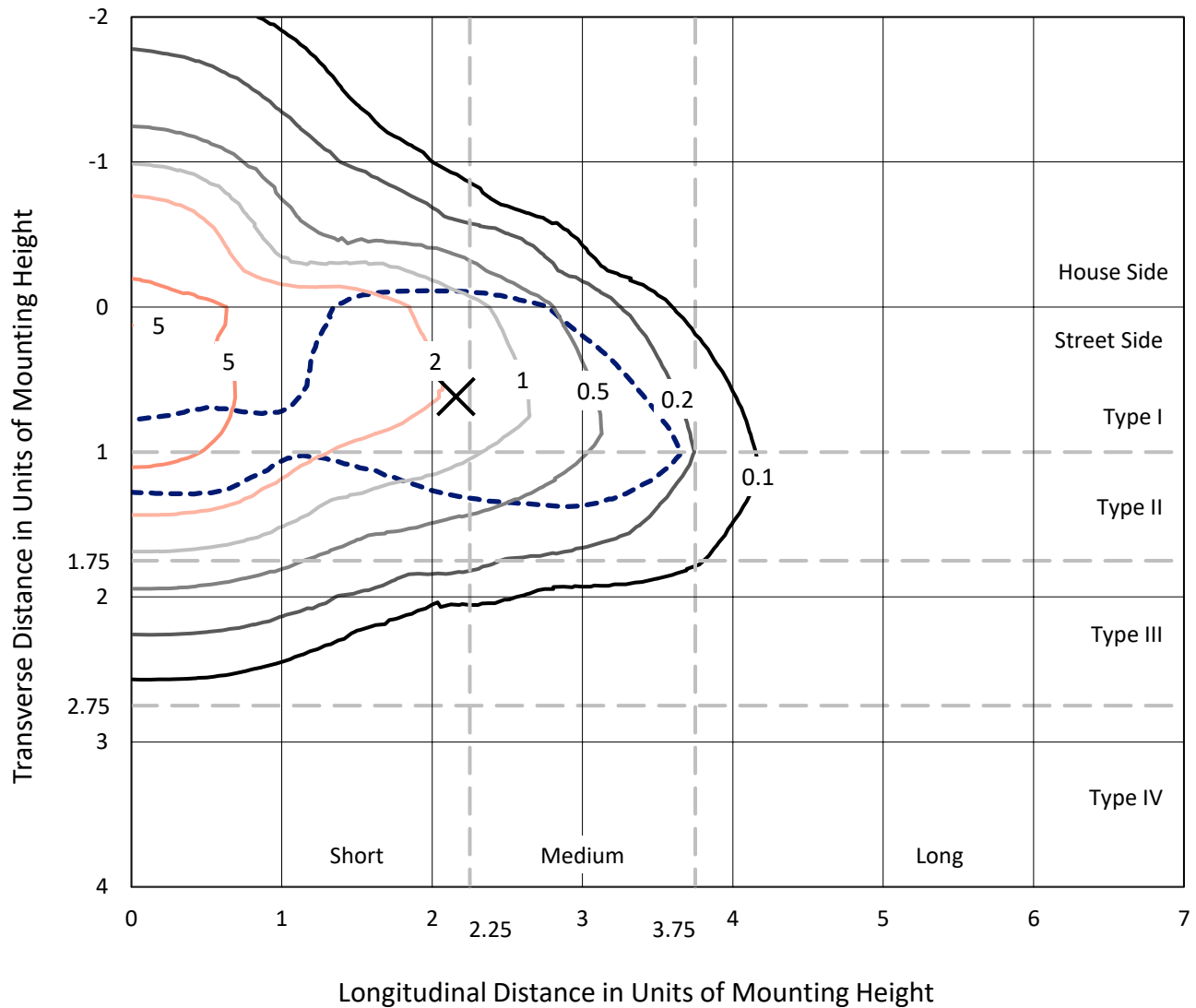


REPORT NUMBER: P1210533

CATALOG NUMBER: ARCH3-150-740-U-T2RE

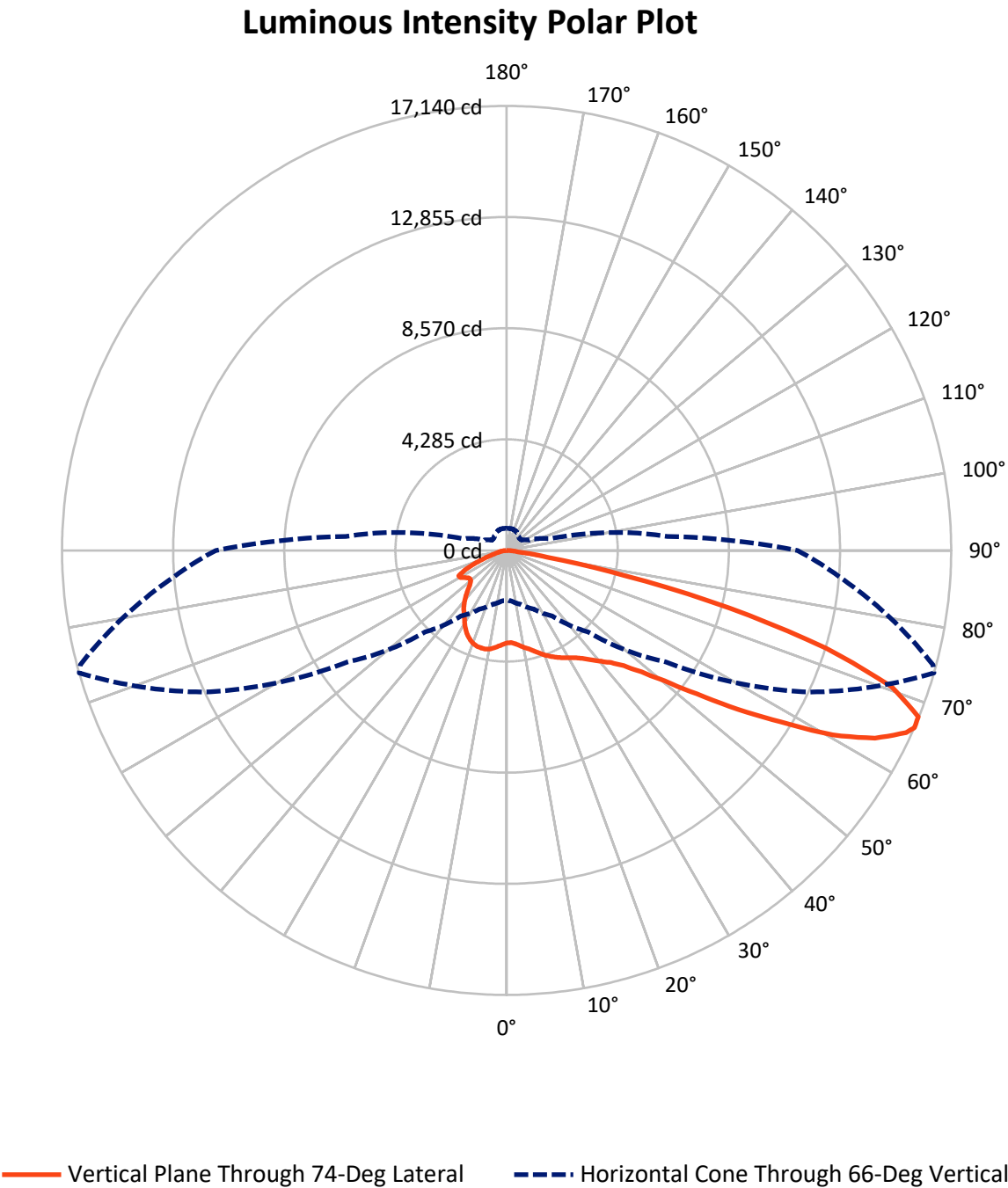
## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc  
Type II - Short - N/A

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CATALOG NUMBER: ARCH3-150-740-U-T2RE



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5290.9   | 0.0    | 5290.9  |
|                    | % Fixture | 24.4     | 0.0    | 24.4    |
| <b>Street Side</b> | Lumens    | 16435.1  | 0.0    | 16435.1 |
|                    | % Fixture | 75.6     | 0.0    | 75.6    |
| <b>Total</b>       | Lumens    | 21726.0  | 0.0    | 21726.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 339.7   | 1.6       |
| 10°-20°   | 1044.8  | 4.8       |
| 20°-30°   | 1960.6  | 9.0       |
| 30°-40°   | 3015.8  | 13.9      |
| 40°-50°   | 4056.5  | 18.7      |
| 50°-60°   | 4797.3  | 22.1      |
| 60°-70°   | 4437.8  | 20.4      |
| 70°-80°   | 1866.9  | 8.6       |
| 80°-90°   | 206.6   | 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°    | 21726.0 | 100.0     |
| 0°-180°   | 21726.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P1210533

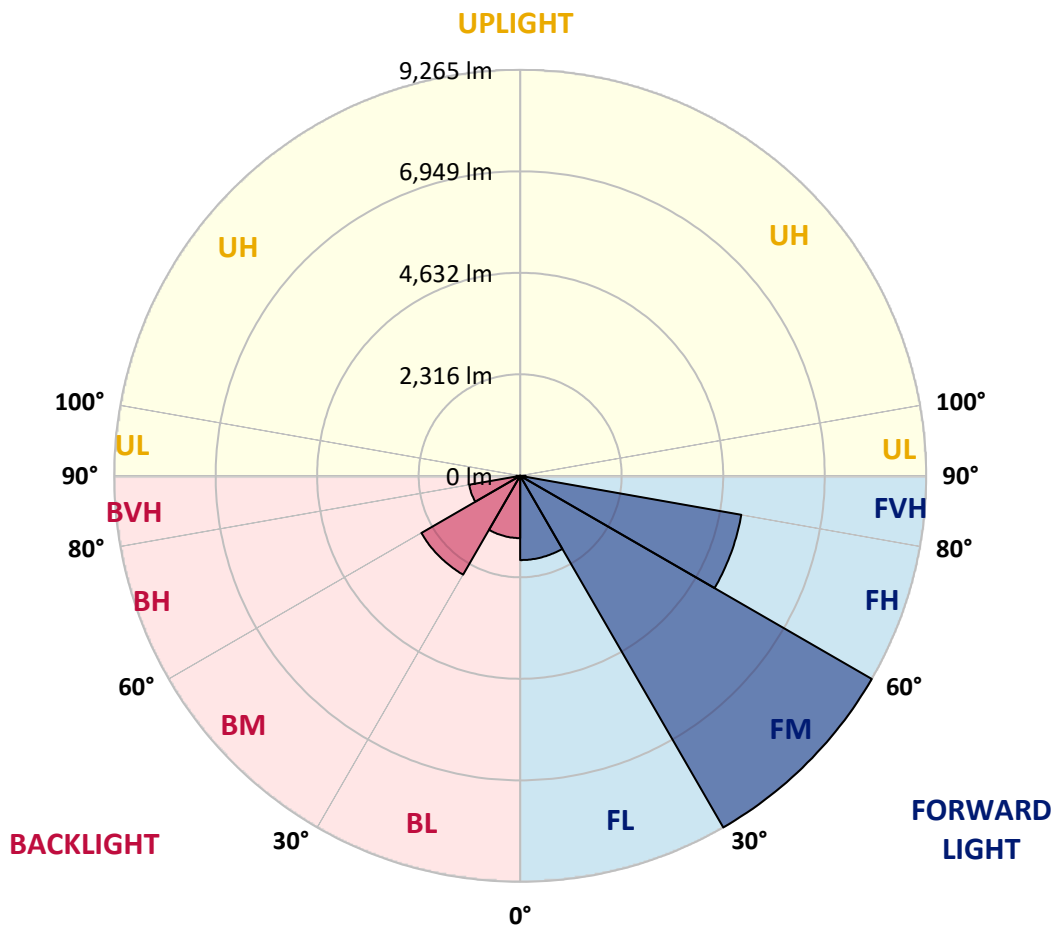
CATALOG NUMBER: ARCH3-150-740-U-T2RE

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1923.0 | 8.9       |                         |      |         |
| FM   | (30°-60°)   | 9264.9 | 42.6      |                         |      |         |
| FH   | (60°-80°)   | 5123.6 | 23.6      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 123.6  | 0.6       |                         |      | G2/225  |
| BL   | (0°-30°)    | 1422.1 | 6.5       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2604.7 | 12.0      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1181.1 | 5.4       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 83.0   | 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: P1210533

CATALOG NUMBER: ARCH3-150-740-U-T2RE

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°    | 45°    | 55°    | 65°     | 74°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|--------|--------|--------|---------|---------|---------|---------|
| 0°    | 3561.6  | 3561.6  | 3561.6  | 3561.6  | 3561.6 | 3561.6 | 3561.6 | 3561.6  | 3561.6  | 3561.6  | 3561.6  |
| 2.5°  | 3550.4  | 3544.8  | 3556.0  | 3572.8  | 3581.2 | 3567.2 | 3561.6 | 3558.8  | 3558.8  | 3550.4  | 3564.4  |
| 5°    | 3382.7  | 3379.9  | 3405.1  | 3435.8  | 3494.5 | 3536.5 | 3592.4 | 3625.9  | 3614.7  | 3598.0  | 3609.1  |
| 7.5°  | 3164.6  | 3159.0  | 3189.8  | 3248.5  | 3329.6 | 3421.8 | 3558.8 | 3665.1  | 3707.0  | 3701.4  | 3698.6  |
| 10°   | 3248.5  | 3242.9  | 3240.1  | 3223.3  | 3251.3 | 3340.8 | 3483.3 | 3670.6  | 3813.2  | 3816.0  | 3818.8  |
| 12.5° | 3539.2  | 3553.2  | 3539.2  | 3486.1  | 3424.6 | 3391.1 | 3474.9 | 3684.6  | 3902.7  | 3919.5  | 3989.3  |
| 15°   | 3936.2  | 3922.2  | 3894.3  | 3832.8  | 3737.7 | 3637.1 | 3575.6 | 3748.9  | 4031.3  | 4045.3  | 4199.0  |
| 17.5° | 4285.7  | 4296.9  | 4280.1  | 4221.4  | 4109.6 | 3978.2 | 3790.9 | 3860.7  | 4168.3  | 4207.4  | 4422.7  |
| 20°   | 4665.9  | 4710.6  | 4688.2  | 4615.6  | 4523.3 | 4327.6 | 4092.8 | 4022.9  | 4319.2  | 4347.2  | 4654.7  |
| 22.5° | 5104.8  | 5152.3  | 5110.4  | 5040.5  | 4965.0 | 4724.6 | 4422.7 | 4221.4  | 4445.0  | 4503.7  | 4878.3  |
| 25°   | 5630.4  | 5675.1  | 5636.0  | 5526.9  | 5431.9 | 5138.3 | 4777.7 | 4445.0  | 4568.0  | 4632.3  | 5060.1  |
| 27.5° | 6046.9  | 6080.5  | 6116.8  | 6052.5  | 5907.1 | 5602.4 | 5146.7 | 4677.1  | 4691.0  | 4758.1  | 5227.8  |
| 30°   | 6418.7  | 6502.6  | 6533.4  | 6541.7  | 6418.7 | 6077.7 | 5524.1 | 4917.5  | 4797.3  | 4867.2  | 5395.5  |
| 32.5° | 6927.5  | 7053.3  | 7003.0  | 7053.3  | 6980.7 | 6525.0 | 5915.5 | 5166.3  | 4934.3  | 4998.6  | 5554.9  |
| 35°   | 7671.2  | 7771.8  | 7640.4  | 7601.3  | 7483.9 | 6977.9 | 6292.9 | 5423.5  | 5116.0  | 5185.9  | 5705.9  |
| 37.5° | 8470.7  | 8585.3  | 8395.2  | 8238.7  | 8015.0 | 7425.2 | 6617.2 | 5761.8  | 5367.6  | 5423.5  | 5845.6  |
| 40°   | 9169.6  | 9264.7  | 9099.7  | 8892.9  | 8518.2 | 7819.3 | 6896.8 | 5999.4  | 5619.2  | 5689.1  | 6007.8  |
| 42.5° | 9815.4  | 9876.9  | 9692.4  | 9493.9  | 8993.5 | 8174.4 | 7198.7 | 6251.0  | 5912.7  | 5979.8  | 6139.2  |
| 45°   | 10469.6 | 10517.1 | 10259.9 | 9977.6  | 9390.5 | 8498.7 | 7531.4 | 6603.2  | 6343.3  | 6432.7  | 6351.6  |
| 47.5° | 10587.0 | 10601.0 | 10556.2 | 10366.1 | 9703.6 | 8809.0 | 7942.3 | 7075.7  | 7000.2  | 7098.1  | 6717.9  |
| 50°   | 9773.5  | 9899.3  | 10176.0 | 10363.3 | 9829.4 | 9069.0 | 8353.3 | 7752.2  | 7906.0  | 8031.8  | 7478.3  |
| 52.5° | 8193.9  | 8314.2  | 8954.4  | 9664.4  | 9527.5 | 9127.7 | 8795.0 | 8610.5  | 9183.6  | 9334.6  | 8512.6  |
| 55°   | 6527.8  | 6634.0  | 7310.5  | 8333.7  | 8551.8 | 8859.3 | 9267.5 | 9706.4  | 10813.4 | 10914.1 | 9647.7  |
| 57.5° | 5376.0  | 5434.7  | 5918.3  | 6902.4  | 7251.8 | 8001.1 | 9521.9 | 11009.1 | 12471.2 | 12625.0 | 10634.5 |
| 60°   | 4408.7  | 4473.0  | 4833.6  | 5644.3  | 6108.4 | 6773.8 | 9320.6 | 12295.1 | 14450.5 | 14450.5 | 11900.9 |
| 62.5° | 3318.4  | 3374.3  | 3709.8  | 4344.4  | 5124.4 | 5733.8 | 8677.6 | 13147.8 | 15943.4 | 15876.3 | 12817.9 |
| 65°   | 2278.4  | 2323.2  | 2566.4  | 2988.5  | 3690.2 | 4886.7 | 7799.8 | 13159.0 | 16933.0 | 16843.6 | 13209.3 |
| 66°   | 1912.2  | 1951.3  | 2158.2  | 2499.3  | 3089.2 | 4433.8 | 7489.5 | 12921.3 | 17139.9 | 17014.1 | 13044.3 |
| 67.5° | 1509.6  | 1537.6  | 1674.6  | 1875.9  | 2264.4 | 3589.6 | 7000.2 | 12247.6 | 17120.3 | 17044.9 | 12625.0 |
| 70°   | 1079.1  | 1098.7  | 1199.3  | 1241.3  | 1339.1 | 2077.1 | 5560.5 | 10726.8 | 15747.7 | 15770.1 | 10975.6 |
| 72.5° | 835.9   | 866.6   | 928.1   | 936.5   | 914.2  | 1104.3 | 3374.3 | 8948.8  | 12882.2 | 12873.8 | 8146.4  |
| 75°   | 673.7   | 690.5   | 721.3   | 738.0   | 732.5  | 712.9  | 1428.6 | 6675.9  | 8867.7  | 8971.1  | 4562.4  |
| 77.5° | 531.2   | 528.4   | 556.3   | 578.7   | 595.5  | 559.1  | 654.2  | 3913.9  | 4649.1  | 4517.7  | 1713.7  |
| 80°   | 391.4   | 391.4   | 430.5   | 438.9   | 464.1  | 469.7  | 436.1  | 1509.6  | 1596.3  | 1450.9  | 444.5   |
| 82.5° | 257.2   | 257.2   | 299.1   | 304.7   | 329.9  | 366.2  | 315.9  | 452.9   | 441.7   | 419.3   | 201.3   |
| 85°   | 139.8   | 134.2   | 148.2   | 167.7   | 181.7  | 215.3  | 190.1  | 226.4   | 232.0   | 229.2   | 134.2   |
| 87.5° | 28.0    | 25.2    | 39.1    | 44.7    | 50.3   | 67.1   | 61.5   | 92.3    | 128.6   | 125.8   | 58.7    |
| 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: P1210533

CATALOG NUMBER: ARCH3-150-740-U-T2RE

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3561.6  | 3561.6 | 3561.6 | 3561.6 | 3561.6 | 3561.6 | 3561.6 | 3561.6 | 3561.6 | 3561.6 | 3561.6 |
| 2.5°  | 3584.0  | 3581.2 | 3611.9 | 3648.3 | 3690.2 | 3715.4 | 3726.6 | 3746.1 | 3732.1 | 3737.7 | 3754.5 |
| 5°    | 3637.1  | 3645.5 | 3690.2 | 3737.7 | 3757.3 | 3743.3 | 3712.6 | 3701.4 | 3676.2 | 3670.6 | 3665.1 |
| 7.5°  | 3715.4  | 3729.4 | 3774.1 | 3785.3 | 3726.6 | 3628.7 | 3558.8 | 3519.7 | 3477.7 | 3466.6 | 3461.0 |
| 10°   | 3844.0  | 3852.4 | 3863.5 | 3748.9 | 3603.5 | 3472.2 | 3385.5 | 3349.1 | 3321.2 | 3298.8 | 3304.4 |
| 12.5° | 4006.1  | 4000.5 | 3913.9 | 3676.2 | 3469.4 | 3335.2 | 3276.5 | 3254.1 | 3234.5 | 3220.5 | 3217.8 |
| 15°   | 4210.2  | 4171.1 | 3922.2 | 3575.6 | 3343.6 | 3231.7 | 3189.8 | 3181.4 | 3159.0 | 3159.0 | 3156.2 |
| 17.5° | 4417.1  | 4316.4 | 3916.7 | 3469.4 | 3223.3 | 3161.8 | 3136.7 | 3131.1 | 3125.5 | 3122.7 | 3131.1 |
| 20°   | 4623.9  | 4445.0 | 3871.9 | 3338.0 | 3139.5 | 3103.1 | 3097.5 | 3100.3 | 3094.7 | 3103.1 | 3097.5 |
| 22.5° | 4805.7  | 4528.9 | 3788.1 | 3198.2 | 3080.8 | 3078.0 | 3064.0 | 3069.6 | 3089.2 | 3092.0 | 3100.3 |
| 25°   | 4945.4  | 4559.6 | 3665.1 | 3069.6 | 3038.8 | 3033.2 | 3050.0 | 3072.4 | 3089.2 | 3092.0 | 3105.9 |
| 27.5° | 5060.1  | 4542.9 | 3511.3 | 2968.9 | 2966.1 | 2996.9 | 3047.2 | 3055.6 | 3058.4 | 3058.4 | 3047.2 |
| 30°   | 5146.7  | 4506.5 | 3315.6 | 2857.1 | 2871.1 | 2946.6 | 2994.1 | 2994.1 | 2971.7 | 2966.1 | 2982.9 |
| 32.5° | 5166.3  | 4459.0 | 3103.1 | 2742.5 | 2764.9 | 2854.3 | 2913.0 | 2893.5 | 2868.3 | 2868.3 | 2879.5 |
| 35°   | 5183.1  | 4394.7 | 2932.6 | 2585.9 | 2619.5 | 2725.7 | 2781.6 | 2742.5 | 2714.5 | 2706.2 | 2703.4 |
| 37.5° | 5177.5  | 4369.5 | 2778.8 | 2387.5 | 2432.2 | 2535.6 | 2572.0 | 2535.6 | 2493.7 | 2474.1 | 2499.3 |
| 40°   | 5183.1  | 4352.8 | 2585.9 | 2169.4 | 2214.1 | 2275.6 | 2323.2 | 2295.2 | 2256.1 | 2205.7 | 2230.9 |
| 42.5° | 5216.6  | 4375.1 | 2373.5 | 1956.9 | 1956.9 | 1990.5 | 2071.6 | 2052.0 | 1956.9 | 1937.4 | 1959.7 |
| 45°   | 5395.5  | 4495.3 | 2161.0 | 1744.5 | 1713.7 | 1736.1 | 1819.9 | 1736.1 | 1677.4 | 1677.4 | 1696.9 |
| 47.5° | 5828.9  | 4719.0 | 1973.7 | 1557.2 | 1484.5 | 1529.2 | 1551.6 | 1473.3 | 1428.6 | 1417.4 | 1436.9 |
| 50°   | 6712.3  | 5166.3 | 1861.9 | 1403.4 | 1313.9 | 1347.5 | 1333.5 | 1330.7 | 1286.0 | 1291.6 | 1302.8 |
| 52.5° | 8054.2  | 6038.5 | 1828.3 | 1327.9 | 1216.1 | 1224.5 | 1210.5 | 1216.1 | 1207.7 | 1235.7 | 1244.0 |
| 55°   | 9516.3  | 6958.3 | 1870.3 | 1339.1 | 1149.0 | 1090.3 | 1095.9 | 1123.8 | 1157.4 | 1202.1 | 1210.5 |
| 57.5° | 10609.4 | 7419.6 | 1979.3 | 1414.6 | 1065.1 | 975.7  | 989.6  | 1042.8 | 1107.1 | 1143.4 | 1163.0 |
| 60°   | 11422.9 | 7363.7 | 2138.6 | 1434.2 | 964.5  | 872.2  | 897.4  | 975.7  | 1031.6 | 1062.3 | 1081.9 |
| 62.5° | 11688.5 | 7014.2 | 2177.8 | 1291.6 | 833.1  | 774.4  | 835.9  | 917.0  | 942.1  | 975.7  | 989.6  |
| 65°   | 11470.4 | 6519.4 | 1892.6 | 1048.4 | 732.5  | 701.7  | 791.2  | 852.7  | 886.2  | 903.0  | 905.8  |
| 66°   | 11213.2 | 6223.0 | 1738.9 | 953.3  | 696.1  | 679.3  | 774.4  | 824.7  | 858.3  | 855.5  | 858.3  |
| 67.5° | 10648.5 | 5602.4 | 1490.1 | 819.1  | 643.0  | 645.8  | 746.4  | 780.0  | 791.2  | 782.8  | 782.8  |
| 70°   | 8727.9  | 3944.6 | 1067.9 | 620.6  | 564.7  | 603.9  | 670.9  | 679.3  | 704.5  | 693.3  | 693.3  |
| 72.5° | 5381.6  | 1937.4 | 715.7  | 475.3  | 503.2  | 564.7  | 561.9  | 589.9  | 648.6  | 665.4  | 676.5  |
| 75°   | 2644.7  | 785.6  | 472.5  | 402.6  | 450.1  | 472.5  | 466.9  | 536.8  | 620.6  | 693.3  | 718.5  |
| 77.5° | 1003.6  | 391.4  | 329.9  | 352.2  | 363.4  | 355.0  | 371.8  | 486.4  | 620.6  | 752.0  | 777.2  |
| 80°   | 310.3   | 271.2  | 260.0  | 290.7  | 274.0  | 260.0  | 279.6  | 402.6  | 525.6  | 570.3  | 570.3  |
| 82.5° | 187.3   | 212.5  | 201.3  | 198.5  | 184.5  | 187.3  | 201.3  | 287.9  | 405.4  | 424.9  | 424.9  |
| 85°   | 131.4   | 139.8  | 114.6  | 109.0  | 106.2  | 103.4  | 103.4  | 167.7  | 240.4  | 237.6  | 246.0  |
| 87.5° | 50.3    | 55.9   | 41.9   | 41.9   | 39.1   | 28.0   | 22.4   | 28.0   | 28.0   | 19.6   | 14.0   |
| 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)