

Scaled data based on original data using  
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P1209310

Luminaire Tested: UPW-SA2-110-740-U-SL2-HSS

Issue Date: 11/4/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1209310  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2308-136-2)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 2/21/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: UPW-SA2-110-740-U-SL2-HSS  
Description: UNDERPASS WALL MOUNT LUMINAIRE  
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT  
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10360 lumens  
Efficiency: N/A  
Efficacy: 91.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 113  
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: 28.75 FT



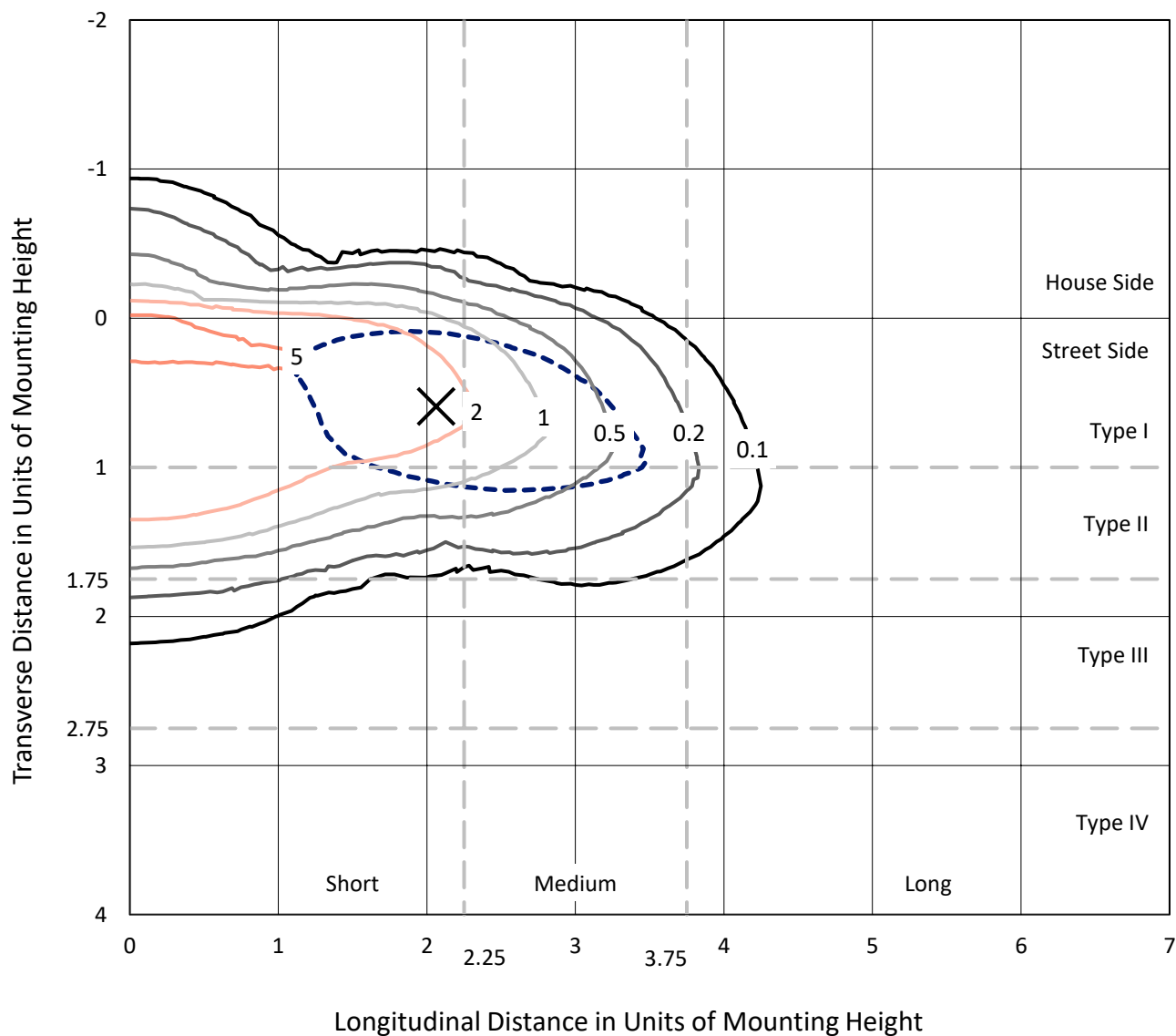
REPORT NUMBER: P1209310

CATALOG NUMBER: UPW-SA2-110-740-U-SL2-HSS

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



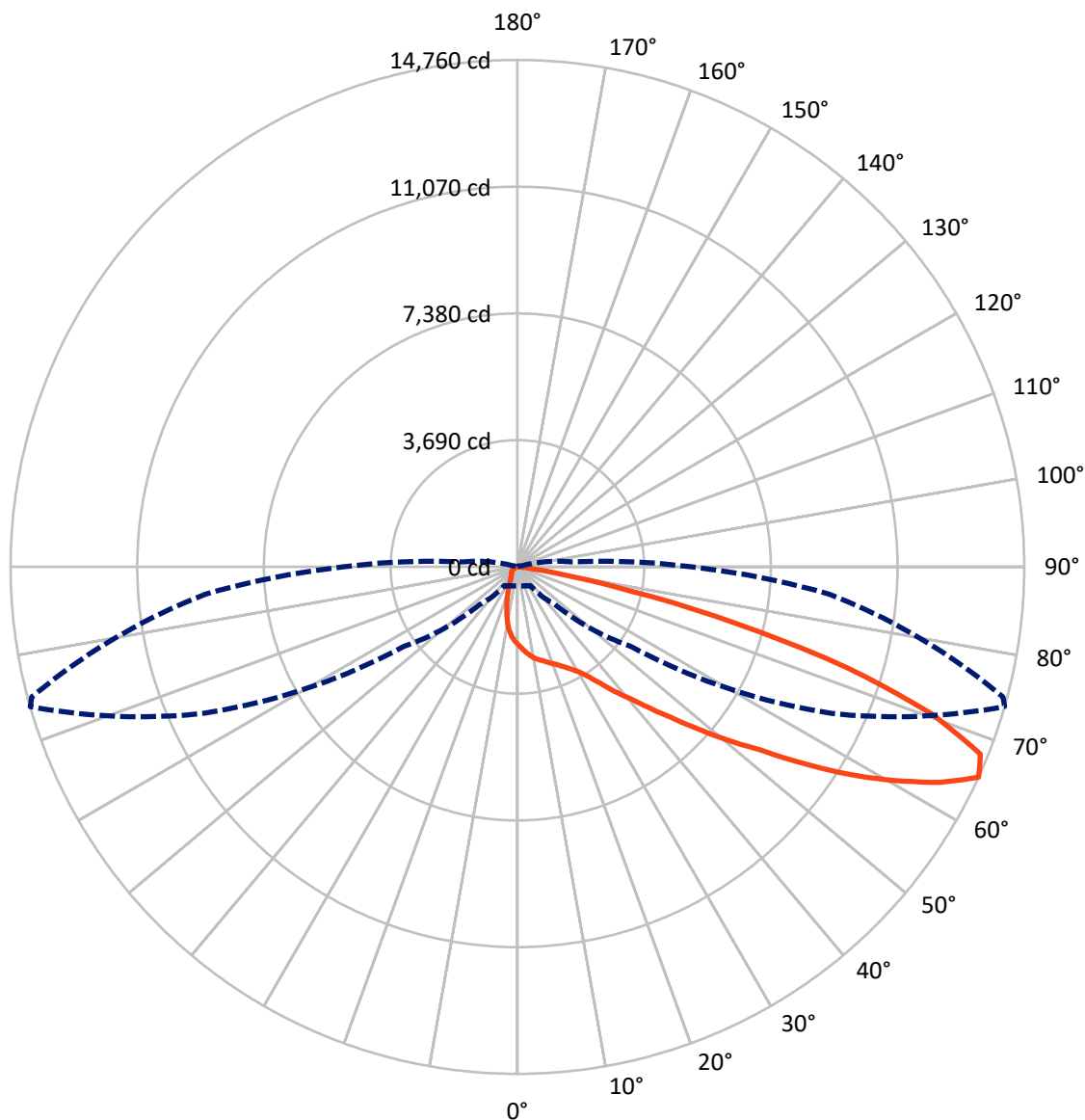
Based on 20 foot mounting height. Maximum calculated value = 6.9 fc

Type II - Short - N/A

REPORT NUMBER: P1209310

CATALOG NUMBER: UPW-SA2-110-740-U-SL2-HSS

## Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P1209310

CATALOG NUMBER: UPW-SA2-110-740-U-SL2-HSS

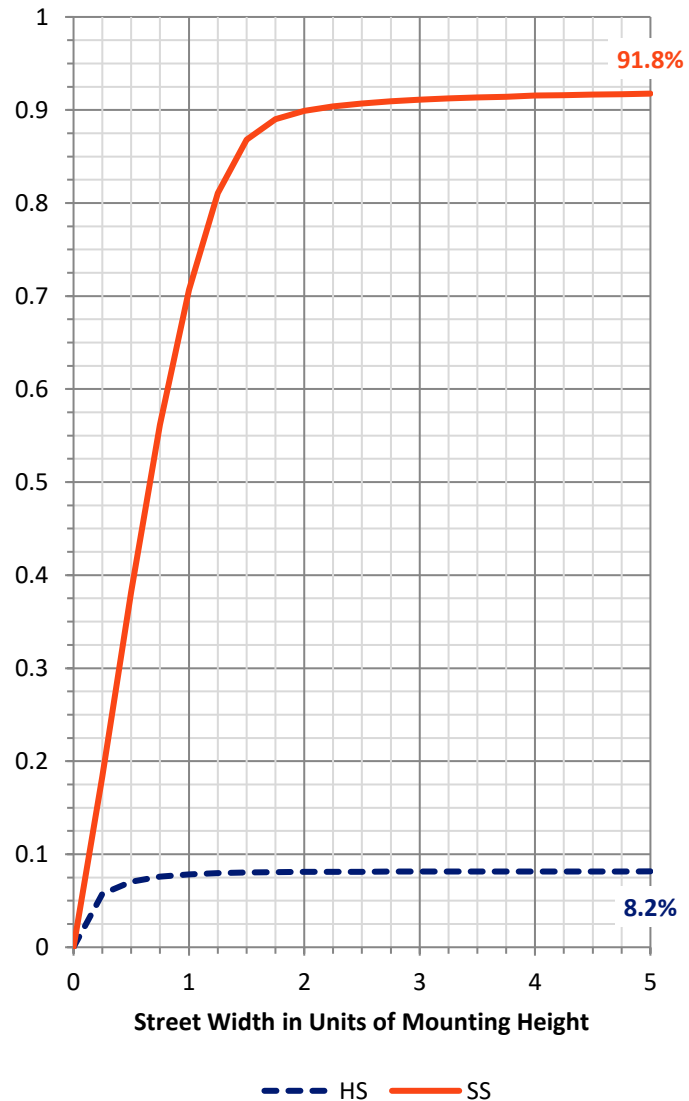
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 851.7    | 0.0    | 851.7   |
|                    | % Fixture | 8.2      | 0.0    | 8.2     |
| <b>Street Side</b> | Lumens    | 9508.3   | 0.0    | 9508.3  |
|                    | % Fixture | 91.8     | 0.0    | 91.8    |
| <b>Total</b>       | Lumens    | 10360.0  | 0.0    | 10360.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 192.7   | 1.9       |
| 10°-20°   | 472.1   | 4.6       |
| 20°-30°   | 736.1   | 7.1       |
| 30°-40°   | 1161.9  | 11.2      |
| 40°-50°   | 1807.3  | 17.4      |
| 50°-60°   | 2612.6  | 25.2      |
| 60°-70°   | 2361.4  | 22.8      |
| 70°-80°   | 949.2   | 9.2       |
| 80°-90°   | 66.7    | 0.6       |
| 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°    | 10360.0 | 100.0     |
| 0°-180°   | 10360.0 | 100.0     |



REPORT NUMBER: P1209310

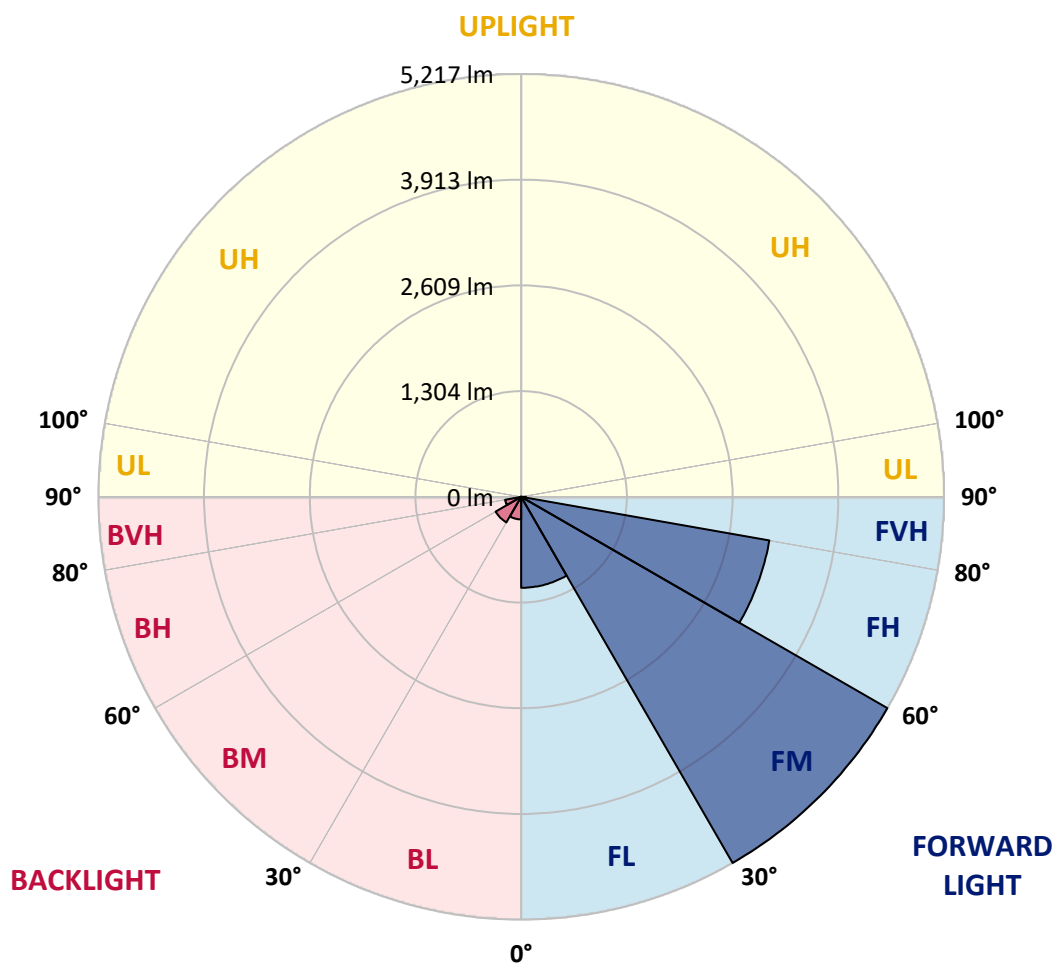
CATALOG NUMBER: UPW-SA2-110-740-U-SL2-HSS

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1122.4 | 10.8      |                         |      |         |
| FM   | (30°-60°)   | 5217.4 | 50.4      |                         |      |         |
| FH   | (60°-80°)   | 3109.4 | 30.0      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 59.2   | 0.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 278.6  | 2.7       | B1/500                  |      |         |
| BM   | (30°-60°)   | 364.4  | 3.5       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 201.2  | 1.9       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 7.5    | 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 II Short



REPORT NUMBER: P1209310

CATALOG NUMBER: UPW-SA2-110-740-U-SL2-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°     | 74°     | 75°     | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|--------|
| 0°    | 2257.2 | 2257.2 | 2257.2 | 2257.2 | 2257.2 | 2257.2 | 2257.2 | 2257.2  | 2257.2  | 2257.2  | 2257.2 |
| 2.5°  | 2547.1 | 2537.6 | 2542.3 | 2521.7 | 2518.6 | 2498.0 | 2452.0 | 2406.1  | 2363.3  | 2352.2  | 2300.0 |
| 5°    | 2732.4 | 2727.6 | 2722.9 | 2719.7 | 2705.5 | 2689.6 | 2624.7 | 2562.9  | 2483.7  | 2469.5  | 2360.2 |
| 7.5°  | 2781.5 | 2776.8 | 2786.3 | 2802.1 | 2811.6 | 2803.7 | 2756.2 | 2696.0  | 2596.2  | 2580.3  | 2421.9 |
| 10°   | 2672.2 | 2667.5 | 2710.2 | 2772.0 | 2829.0 | 2870.2 | 2852.8 | 2798.9  | 2694.4  | 2678.5  | 2464.7 |
| 12.5° | 2431.4 | 2425.1 | 2494.8 | 2621.5 | 2756.2 | 2873.4 | 2908.2 | 2871.8  | 2773.6  | 2756.2  | 2499.6 |
| 15°   | 2211.3 | 2201.8 | 2271.5 | 2399.8 | 2569.2 | 2795.8 | 2928.8 | 2939.9  | 2838.5  | 2827.4  | 2537.6 |
| 17.5° | 2094.0 | 2095.6 | 2138.4 | 2244.5 | 2407.7 | 2654.8 | 2906.6 | 3003.3  | 2925.6  | 2911.4  | 2578.8 |
| 20°   | 2141.6 | 2144.7 | 2149.5 | 2190.7 | 2288.9 | 2531.2 | 2857.5 | 3071.4  | 3011.2  | 2995.3  | 2631.0 |
| 22.5° | 2279.4 | 2287.3 | 2274.6 | 2252.4 | 2265.1 | 2440.9 | 2806.8 | 3145.8  | 3109.4  | 3093.6  | 2667.5 |
| 25°   | 2536.0 | 2526.5 | 2486.9 | 2398.2 | 2334.8 | 2414.0 | 2789.4 | 3231.4  | 3232.9  | 3213.9  | 2711.8 |
| 27.5° | 2841.7 | 2816.4 | 2768.8 | 2627.9 | 2472.6 | 2458.4 | 2784.7 | 3323.2  | 3377.1  | 3350.2  | 2762.5 |
| 30°   | 3101.5 | 3088.8 | 3030.2 | 2900.3 | 2667.5 | 2561.3 | 2797.3 | 3411.9  | 3548.2  | 3533.9  | 2829.0 |
| 32.5° | 3269.4 | 3266.2 | 3223.4 | 3136.3 | 2932.0 | 2727.6 | 2852.8 | 3532.3  | 3806.3  | 3758.8  | 2955.7 |
| 35°   | 3410.3 | 3396.1 | 3362.8 | 3305.8 | 3182.3 | 2954.2 | 2970.0 | 3725.6  | 4154.8  | 4140.6  | 3158.5 |
| 37.5° | 3570.3 | 3552.9 | 3513.3 | 3442.0 | 3356.5 | 3221.9 | 3156.9 | 3975.8  | 4598.3  | 4592.0  | 3426.2 |
| 40°   | 3755.7 | 3744.6 | 3705.0 | 3609.9 | 3503.8 | 3423.0 | 3351.7 | 4234.0  | 5027.6  | 4983.3  | 3673.3 |
| 42.5° | 3937.8 | 3941.0 | 3910.9 | 3812.7 | 3668.5 | 3559.2 | 3583.0 | 4497.0  | 5586.8  | 5564.6  | 4058.2 |
| 45°   | 4145.3 | 4134.2 | 4118.4 | 4047.1 | 3891.9 | 3667.0 | 3804.8 | 4861.3  | 6236.2  | 6291.6  | 4617.4 |
| 47.5° | 4291.1 | 4287.9 | 4319.6 | 4265.7 | 4137.4 | 3839.6 | 4032.9 | 5312.7  | 7034.5  | 7086.8  | 5231.9 |
| 50°   | 4329.1 | 4324.3 | 4430.4 | 4474.8 | 4470.0 | 4173.8 | 4346.5 | 5884.6  | 7912.1  | 7904.2  | 5919.4 |
| 52.5° | 4085.1 | 4096.2 | 4302.1 | 4538.2 | 4758.3 | 4688.6 | 4912.0 | 6671.8  | 8849.8  | 8876.7  | 6565.7 |
| 55°   | 3385.0 | 3454.7 | 3682.8 | 4229.3 | 4809.0 | 5212.9 | 5640.6 | 7755.3  | 10086.9 | 10015.6 | 7074.1 |
| 57.5° | 2122.6 | 2086.1 | 2471.0 | 3263.0 | 4184.9 | 5252.5 | 6229.9 | 8843.5  | 11408.0 | 11317.7 | 7821.8 |
| 60°   | 1081.9 | 1034.4 | 1259.3 | 1820.0 | 2905.1 | 4414.6 | 6242.5 | 9792.3  | 12626.1 | 12524.7 | 8577.4 |
| 62.5° | 662.1  | 654.2  | 700.1  | 888.6  | 1504.8 | 2977.9 | 5409.4 | 10365.7 | 13817.2 | 13736.4 | 9089.0 |
| 65°   | 557.6  | 556.0  | 573.4  | 603.5  | 666.9  | 1546.0 | 4036.0 | 10085.3 | 14759.7 | 14642.5 | 9119.1 |
| 67.5° | 494.2  | 494.2  | 530.6  | 544.9  | 443.5  | 665.3  | 2475.8 | 8919.5  | 14539.5 | 14517.4 | 8483.9 |
| 70°   | 426.1  | 419.8  | 470.4  | 513.2  | 369.1  | 342.1  | 1275.1 | 7166.0  | 12773.4 | 12846.2 | 7226.2 |
| 72.5° | 321.6  | 327.9  | 380.2  | 437.2  | 302.5  | 240.8  | 582.9  | 5014.9  | 10058.4 | 10093.2 | 5678.6 |
| 75°   | 242.4  | 248.7  | 294.6  | 358.0  | 243.9  | 182.2  | 321.6  | 3258.3  | 6587.9  | 6667.1  | 3316.9 |
| 77.5° | 185.3  | 186.9  | 232.8  | 296.2  | 188.5  | 139.4  | 217.0  | 1810.5  | 3339.1  | 3267.8  | 1289.4 |
| 80°   | 128.3  | 133.1  | 182.2  | 229.7  | 150.5  | 104.5  | 145.7  | 784.1   | 1205.4  | 1112.0  | 400.8  |
| 82.5° | 47.5   | 61.8   | 128.3  | 166.3  | 106.1  | 74.4   | 107.7  | 315.2   | 353.2   | 331.1   | 147.3  |
| 85°   | 7.9    | 7.9    | 69.7   | 122.0  | 57.0   | 44.4   | 68.1   | 109.3   | 115.6   | 122.0   | 76.0   |
| 87.5° | 0.0    | 0.0    | 7.9    | 26.9   | 9.5    | 6.3    | 19.0   | 26.9    | 55.4    | 61.8    | 41.2   |
| 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: P1209310

CATALOG NUMBER: UPW-SA2-110-740-U-SL2-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2257.2 | 2257.2 | 2257.2 | 2257.2 | 2257.2 | 2257.2 | 2257.2 | 2257.2 | 2257.2 | 2257.2 | 2257.2 |
| 2.5°  | 2265.1 | 2231.9 | 2165.3 | 2108.3 | 2019.6 | 1942.0 | 1892.9 | 1854.9 | 1826.4 | 1793.1 | 1759.8 |
| 5°    | 2290.5 | 2212.8 | 2049.7 | 1866.0 | 1677.5 | 1508.0 | 1368.6 | 1241.9 | 1159.5 | 1150.0 | 1110.4 |
| 7.5°  | 2312.6 | 2189.1 | 1913.5 | 1587.2 | 1298.9 | 1053.4 | 880.7  | 774.6  | 682.7  | 654.2  | 666.9  |
| 10°   | 2312.6 | 2147.9 | 1732.9 | 1284.6 | 937.7  | 687.5  | 560.7  | 491.0  | 465.7  | 454.6  | 445.1  |
| 12.5° | 2306.3 | 2081.4 | 1506.4 | 1001.1 | 652.6  | 500.5  | 443.5  | 418.2  | 403.9  | 397.6  | 394.4  |
| 15°   | 2296.8 | 2000.6 | 1283.0 | 747.6  | 499.0  | 429.3  | 400.8  | 381.7  | 369.1  | 362.7  | 358.0  |
| 17.5° | 2290.5 | 1916.6 | 1080.3 | 567.1  | 430.8  | 391.2  | 367.5  | 348.5  | 337.4  | 327.9  | 326.3  |
| 20°   | 2271.5 | 1818.4 | 883.9  | 465.7  | 391.2  | 358.0  | 332.6  | 315.2  | 304.1  | 293.0  | 293.0  |
| 22.5° | 2241.4 | 1679.0 | 698.5  | 405.5  | 358.0  | 324.7  | 297.8  | 280.4  | 269.3  | 262.9  | 259.8  |
| 25°   | 2203.3 | 1541.2 | 554.4  | 370.7  | 326.3  | 289.9  | 266.1  | 248.7  | 239.2  | 236.0  | 232.8  |
| 27.5° | 2160.6 | 1403.4 | 456.2  | 342.1  | 296.2  | 261.4  | 234.4  | 221.8  | 215.4  | 212.3  | 209.1  |
| 30°   | 2125.7 | 1278.3 | 396.0  | 318.4  | 267.7  | 232.8  | 209.1  | 198.0  | 193.2  | 191.7  | 188.5  |
| 32.5° | 2128.9 | 1172.2 | 354.8  | 291.5  | 245.5  | 210.7  | 186.9  | 175.8  | 175.8  | 174.2  | 174.2  |
| 35°   | 2187.5 | 1105.6 | 326.3  | 267.7  | 221.8  | 188.5  | 167.9  | 158.4  | 161.6  | 161.6  | 160.0  |
| 37.5° | 2250.9 | 1039.1 | 299.4  | 242.4  | 201.2  | 167.9  | 147.3  | 142.6  | 144.1  | 145.7  | 145.7  |
| 40°   | 2333.2 | 990.0  | 277.2  | 218.6  | 180.6  | 150.5  | 133.1  | 128.3  | 128.3  | 128.3  | 126.7  |
| 42.5° | 2520.1 | 985.2  | 258.2  | 198.0  | 161.6  | 133.1  | 120.4  | 114.0  | 110.9  | 109.3  | 106.1  |
| 45°   | 2783.1 | 1020.1 | 245.5  | 179.0  | 142.6  | 120.4  | 109.3  | 101.4  | 91.9   | 87.1   | 85.5   |
| 47.5° | 3122.1 | 1110.4 | 234.4  | 161.6  | 125.1  | 109.3  | 98.2   | 87.1   | 74.4   | 68.1   | 66.5   |
| 50°   | 3545.0 | 1251.4 | 223.3  | 147.3  | 112.5  | 98.2   | 85.5   | 71.3   | 58.6   | 52.3   | 52.3   |
| 52.5° | 3941.0 | 1417.7 | 212.3  | 134.6  | 99.8   | 90.3   | 72.9   | 57.0   | 45.9   | 41.2   | 39.6   |
| 55°   | 4297.4 | 1604.6 | 199.6  | 120.4  | 90.3   | 79.2   | 60.2   | 44.4   | 33.3   | 28.5   | 26.9   |
| 57.5° | 4726.7 | 1840.6 | 183.7  | 106.1  | 80.8   | 68.1   | 47.5   | 31.7   | 22.2   | 15.8   | 14.3   |
| 60°   | 5195.5 | 1959.4 | 163.2  | 93.5   | 69.7   | 57.0   | 36.4   | 22.2   | 12.7   | 6.3    | 6.3    |
| 62.5° | 5347.6 | 1900.8 | 137.8  | 80.8   | 60.2   | 45.9   | 26.9   | 14.3   | 4.8    | 0.0    | 0.0    |
| 65°   | 5070.4 | 1628.4 | 117.2  | 71.3   | 52.3   | 34.8   | 19.0   | 7.9    | 0.0    | 0.0    | 0.0    |
| 67.5° | 4432.0 | 1267.2 | 96.6   | 61.8   | 44.4   | 28.5   | 12.7   | 1.6    | 0.0    | 0.0    | 0.0    |
| 70°   | 3659.0 | 939.3  | 80.8   | 50.7   | 38.0   | 22.2   | 7.9    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 2824.3 | 666.9  | 69.7   | 42.8   | 31.7   | 17.4   | 4.8    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 1595.1 | 358.0  | 63.4   | 42.8   | 28.5   | 14.3   | 3.2    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 658.9  | 164.7  | 55.4   | 42.8   | 28.5   | 15.8   | 4.8    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 205.9  | 84.0   | 47.5   | 44.4   | 30.1   | 17.4   | 4.8    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 96.6   | 64.9   | 49.1   | 41.2   | 26.9   | 15.8   | 4.8    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 50.7   | 33.3   | 34.8   | 34.8   | 23.8   | 14.3   | 4.8    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 14.3   | 1.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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)