

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: P1209067

Luminaire Tested: UPW-SA2-090-740-U-SL2-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209067
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-SA2-090-740-U-SL2-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 4000K, 800mA 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: 8371 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

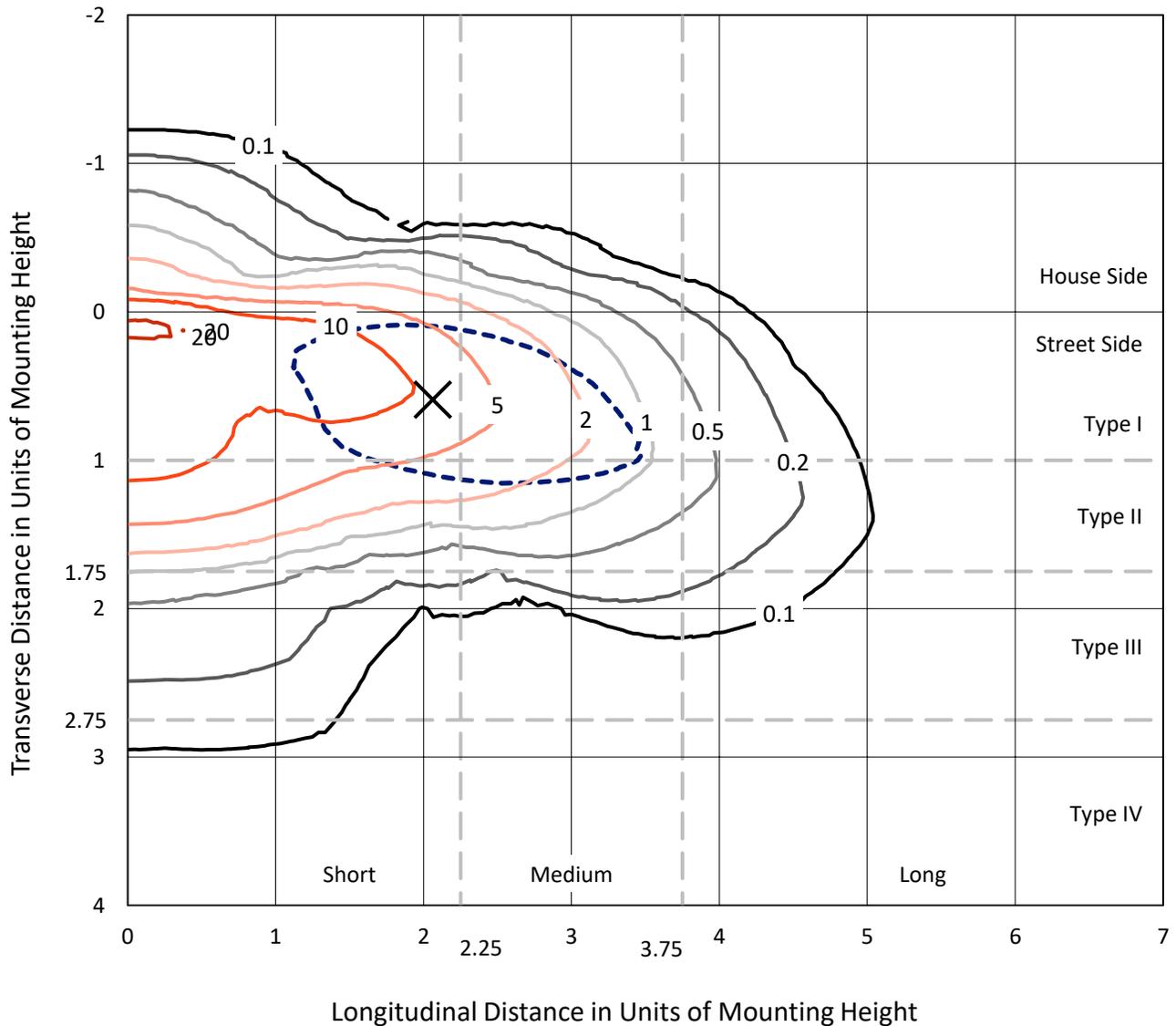
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P1209067
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Iso-Footcandle Lines of Horizontal Illumination

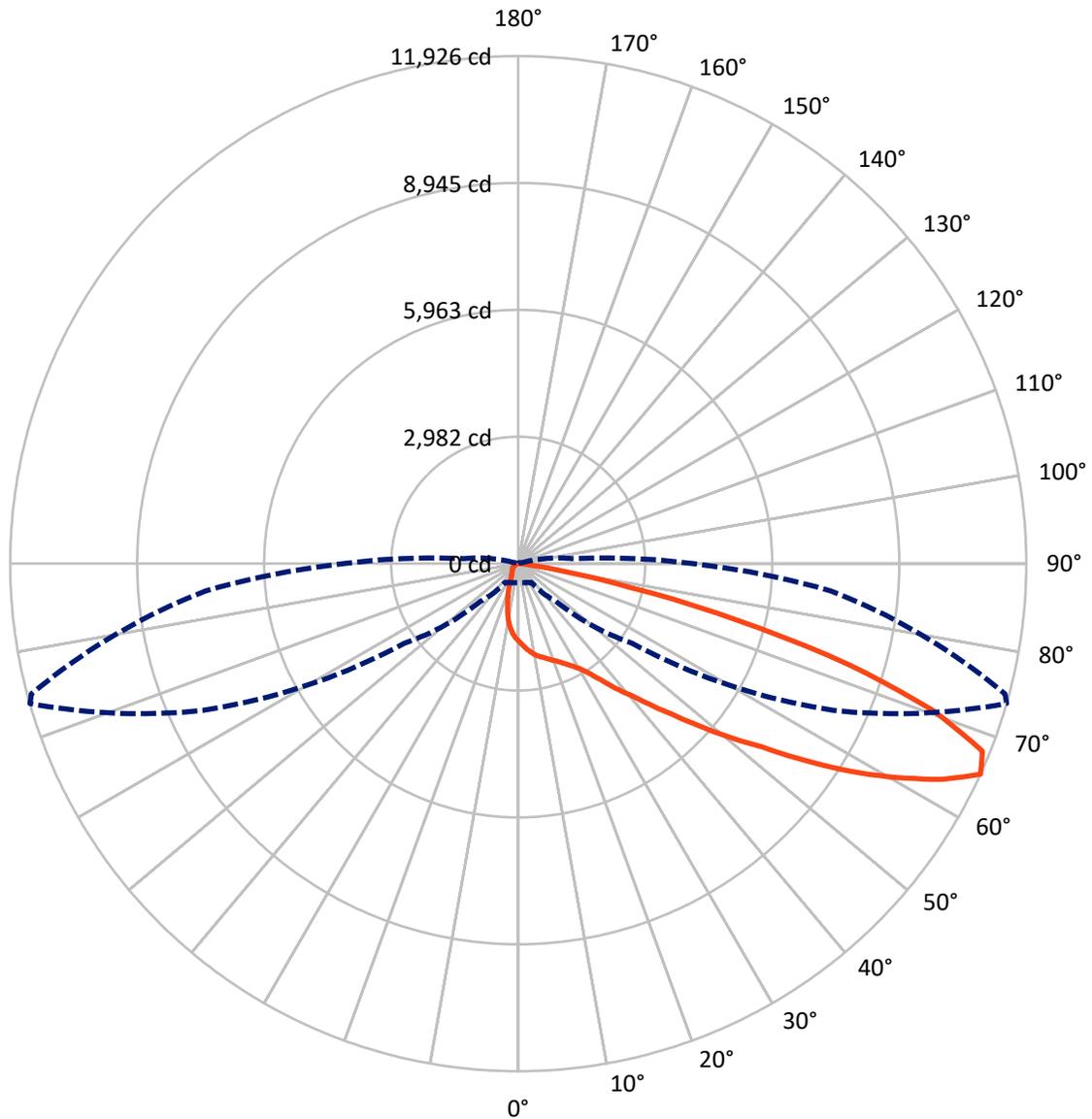
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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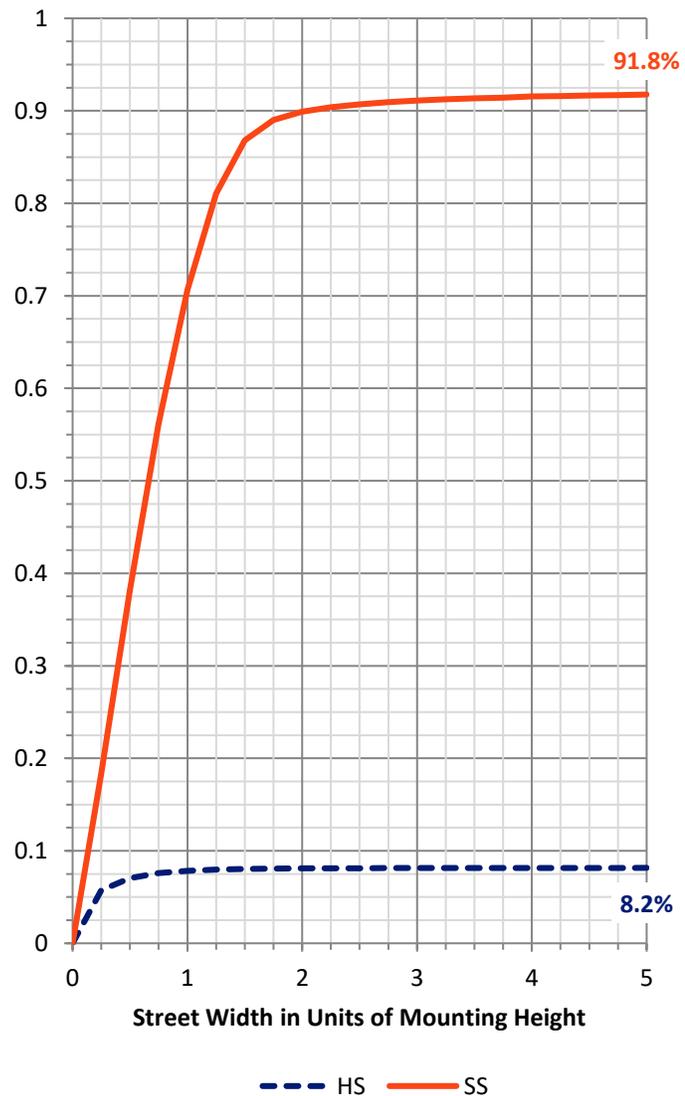
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 688.1 | 0.0 | 688.1 |
| | % Fixture | 8.2 | 0.0 | 8.2 |
| Street Side | Lumens | 7682.9 | 0.0 | 7682.9 |
| | % Fixture | 91.8 | 0.0 | 91.8 |
| Total | Lumens | 8371.0 | 0.0 | 8371.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 155.7 | 1.9 |
| 10°-20° | 381.5 | 4.6 |
| 20°-30° | 594.8 | 7.1 |
| 30°-40° | 938.9 | 11.2 |
| 40°-50° | 1460.3 | 17.4 |
| 50°-60° | 2111.0 | 25.2 |
| 60°-70° | 1908.1 | 22.8 |
| 70°-80° | 766.9 | 9.2 |
| 80°-90° | 53.9 | 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° | 8371.0 | 100.0 |
| 0°-180° | 8371.0 | 100.0 |



REPORT NUMBER: P1209067

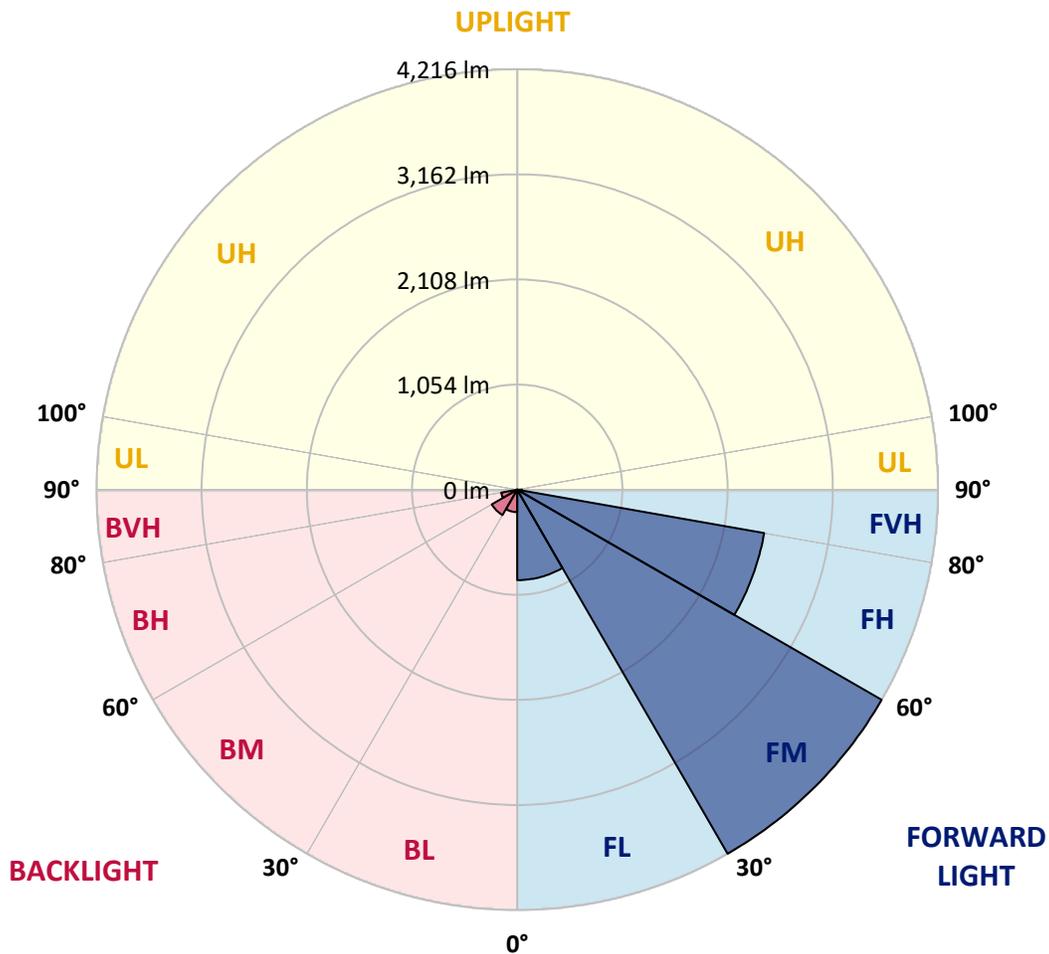
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 906.9 | 10.8 | | | |
| FM | (30°-60°) | 4215.7 | 50.4 | | | |
| FH | (60°-80°) | 2512.4 | 30.0 | | | G2/5000 |
| FVH | (80°-90°) | 47.8 | 0.6 | | | G1/100 |
| BL | (0°-30°) | 225.1 | 2.7 | B1/500 | | |
| BM | (30°-60°) | 294.4 | 3.5 | B1/1000 | | |
| BH | (60°-80°) | 162.6 | 1.9 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 6.0 | 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 II Short





REPORT NUMBER: P1209067

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 74° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|
| 0° | 1823.8 | 1823.8 | 1823.8 | 1823.8 | 1823.8 | 1823.8 | 1823.8 | 1823.8 | 1823.8 | 1823.8 | 1823.8 |
| 2.5° | 2058.1 | 2050.4 | 2054.2 | 2037.6 | 2035.0 | 2018.4 | 1981.3 | 1944.2 | 1909.6 | 1900.6 | 1858.4 |
| 5° | 2207.8 | 2204.0 | 2200.1 | 2197.6 | 2186.1 | 2173.3 | 2120.8 | 2070.9 | 2006.9 | 1995.3 | 1907.0 |
| 7.5° | 2247.5 | 2243.6 | 2251.3 | 2264.1 | 2271.8 | 2265.4 | 2227.0 | 2178.4 | 2097.7 | 2084.9 | 1957.0 |
| 10° | 2159.2 | 2155.3 | 2189.9 | 2239.8 | 2285.9 | 2319.2 | 2305.1 | 2261.6 | 2177.1 | 2164.3 | 1991.5 |
| 12.5° | 1964.6 | 1959.5 | 2015.8 | 2118.2 | 2227.0 | 2321.7 | 2349.9 | 2320.4 | 2241.1 | 2227.0 | 2019.7 |
| 15° | 1786.7 | 1779.0 | 1835.4 | 1939.0 | 2076.0 | 2259.0 | 2366.5 | 2375.5 | 2293.6 | 2284.6 | 2050.4 |
| 17.5° | 1692.0 | 1693.3 | 1727.9 | 1813.6 | 1945.4 | 2145.1 | 2348.6 | 2426.7 | 2364.0 | 2352.4 | 2083.7 |
| 20° | 1730.4 | 1733.0 | 1736.8 | 1770.1 | 1849.4 | 2045.3 | 2308.9 | 2481.7 | 2433.1 | 2420.3 | 2125.9 |
| 22.5° | 1841.8 | 1848.2 | 1837.9 | 1820.0 | 1830.2 | 1972.3 | 2268.0 | 2541.9 | 2512.4 | 2499.6 | 2155.3 |
| 25° | 2049.1 | 2041.4 | 2009.4 | 1937.8 | 1886.6 | 1950.6 | 2253.9 | 2611.0 | 2612.3 | 2596.9 | 2191.2 |
| 27.5° | 2296.1 | 2275.6 | 2237.2 | 2123.3 | 1997.9 | 1986.4 | 2250.0 | 2685.2 | 2728.7 | 2707.0 | 2232.1 |
| 30° | 2506.0 | 2495.8 | 2448.4 | 2343.5 | 2155.3 | 2069.6 | 2260.3 | 2756.9 | 2867.0 | 2855.4 | 2285.9 |
| 32.5° | 2641.7 | 2639.1 | 2604.6 | 2534.2 | 2369.1 | 2204.0 | 2305.1 | 2854.2 | 3075.6 | 3037.2 | 2388.3 |
| 35° | 2755.6 | 2744.1 | 2717.2 | 2671.1 | 2571.3 | 2387.0 | 2399.8 | 3010.3 | 3357.2 | 3345.6 | 2552.1 |
| 37.5° | 2884.9 | 2870.8 | 2838.8 | 2781.2 | 2712.1 | 2603.3 | 2550.8 | 3212.5 | 3715.5 | 3710.4 | 2768.4 |
| 40° | 3034.6 | 3025.7 | 2993.7 | 2916.9 | 2831.1 | 2765.8 | 2708.2 | 3421.1 | 4062.4 | 4026.5 | 2968.1 |
| 42.5° | 3181.8 | 3184.4 | 3160.0 | 3080.7 | 2964.2 | 2875.9 | 2895.1 | 3633.6 | 4514.2 | 4496.3 | 3279.1 |
| 45° | 3349.5 | 3340.5 | 3327.7 | 3270.1 | 3144.7 | 2962.9 | 3074.3 | 3928.0 | 5038.9 | 5083.7 | 3730.9 |
| 47.5° | 3467.2 | 3464.7 | 3490.3 | 3446.7 | 3343.1 | 3102.5 | 3258.6 | 4292.7 | 5684.0 | 5726.2 | 4227.5 |
| 50° | 3497.9 | 3494.1 | 3579.9 | 3615.7 | 3611.8 | 3372.5 | 3512.0 | 4754.8 | 6393.0 | 6386.6 | 4782.9 |
| 52.5° | 3300.8 | 3309.8 | 3476.2 | 3666.9 | 3844.8 | 3788.5 | 3968.9 | 5390.9 | 7150.7 | 7172.5 | 5305.1 |
| 55° | 2735.1 | 2791.4 | 2975.7 | 3417.3 | 3885.7 | 4212.1 | 4557.7 | 6266.3 | 8150.3 | 8092.7 | 5716.0 |
| 57.5° | 1715.1 | 1685.6 | 1996.6 | 2636.6 | 3381.5 | 4244.1 | 5033.8 | 7145.6 | 9217.8 | 9144.8 | 6320.1 |
| 60° | 874.2 | 835.8 | 1017.5 | 1470.6 | 2347.3 | 3567.1 | 5044.0 | 7912.3 | 10202.0 | 10120.1 | 6930.6 |
| 62.5° | 535.0 | 528.6 | 565.7 | 718.0 | 1215.9 | 2406.2 | 4370.8 | 8375.6 | 11164.5 | 11099.2 | 7344.0 |
| 65° | 450.5 | 449.2 | 463.3 | 487.6 | 538.8 | 1249.2 | 3261.2 | 8149.1 | 11926.0 | 11831.3 | 7368.3 |
| 67.5° | 399.3 | 399.3 | 428.8 | 440.3 | 358.4 | 537.6 | 2000.5 | 7207.1 | 11748.1 | 11730.2 | 6855.1 |
| 70° | 344.3 | 339.2 | 380.1 | 414.7 | 298.2 | 276.5 | 1030.3 | 5790.2 | 10321.0 | 10379.9 | 5838.9 |
| 72.5° | 259.8 | 264.9 | 307.2 | 353.2 | 244.5 | 194.5 | 471.0 | 4052.1 | 8127.3 | 8155.5 | 4588.4 |
| 75° | 195.8 | 200.9 | 238.1 | 289.3 | 197.1 | 147.2 | 259.8 | 2632.7 | 5323.1 | 5387.1 | 2680.1 |
| 77.5° | 149.7 | 151.0 | 188.1 | 239.3 | 152.3 | 112.6 | 175.3 | 1462.9 | 2698.0 | 2640.4 | 1041.8 |
| 80° | 103.7 | 107.5 | 147.2 | 185.6 | 121.6 | 84.5 | 117.7 | 633.5 | 974.0 | 898.5 | 323.8 |
| 82.5° | 38.4 | 49.9 | 103.7 | 134.4 | 85.8 | 60.2 | 87.0 | 254.7 | 285.4 | 267.5 | 119.0 |
| 85° | 6.4 | 6.4 | 56.3 | 98.6 | 46.1 | 35.8 | 55.0 | 88.3 | 93.4 | 98.6 | 61.4 |
| 87.5° | 0.0 | 0.0 | 6.4 | 21.8 | 7.7 | 5.1 | 15.4 | 21.8 | 44.8 | 49.9 | 33.3 |
| 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: P1209067

CATALOG NUMBER: UPW-SA2-090-740-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1823.8 | 1823.8 | 1823.8 | 1823.8 | 1823.8 | 1823.8 | 1823.8 | 1823.8 | 1823.8 | 1823.8 | 1823.8 |
| 2.5° | 1830.2 | 1803.4 | 1749.6 | 1703.5 | 1631.9 | 1569.1 | 1529.5 | 1498.8 | 1475.7 | 1448.8 | 1422.0 |
| 5° | 1850.7 | 1788.0 | 1656.2 | 1507.7 | 1355.4 | 1218.5 | 1105.8 | 1003.4 | 936.9 | 929.2 | 897.2 |
| 7.5° | 1868.6 | 1768.8 | 1546.1 | 1282.4 | 1049.5 | 851.1 | 711.6 | 625.9 | 551.6 | 528.6 | 538.8 |
| 10° | 1868.6 | 1735.5 | 1400.2 | 1038.0 | 757.7 | 555.5 | 453.1 | 396.8 | 376.3 | 367.3 | 359.6 |
| 12.5° | 1863.5 | 1681.8 | 1217.2 | 808.9 | 527.3 | 404.4 | 358.4 | 337.9 | 326.4 | 321.3 | 318.7 |
| 15° | 1855.8 | 1616.5 | 1036.7 | 604.1 | 403.2 | 346.9 | 323.8 | 308.5 | 298.2 | 293.1 | 289.3 |
| 17.5° | 1850.7 | 1548.7 | 872.9 | 458.2 | 348.1 | 316.1 | 296.9 | 281.6 | 272.6 | 264.9 | 263.7 |
| 20° | 1835.4 | 1469.3 | 714.2 | 376.3 | 316.1 | 289.3 | 268.8 | 254.7 | 245.7 | 236.8 | 236.8 |
| 22.5° | 1811.0 | 1356.7 | 564.4 | 327.7 | 289.3 | 262.4 | 240.6 | 226.5 | 217.6 | 212.5 | 209.9 |
| 25° | 1780.3 | 1245.3 | 448.0 | 299.5 | 263.7 | 234.2 | 215.0 | 200.9 | 193.3 | 190.7 | 188.1 |
| 27.5° | 1745.8 | 1134.0 | 368.6 | 276.5 | 239.3 | 211.2 | 189.4 | 179.2 | 174.1 | 171.5 | 168.9 |
| 30° | 1717.6 | 1032.9 | 320.0 | 257.3 | 216.3 | 188.1 | 168.9 | 160.0 | 156.1 | 154.9 | 152.3 |
| 32.5° | 1720.2 | 947.1 | 286.7 | 235.5 | 198.4 | 170.2 | 151.0 | 142.1 | 142.1 | 140.8 | 140.8 |
| 35° | 1767.5 | 893.4 | 263.7 | 216.3 | 179.2 | 152.3 | 135.7 | 128.0 | 130.5 | 130.5 | 129.3 |
| 37.5° | 1818.7 | 839.6 | 241.9 | 195.8 | 162.5 | 135.7 | 119.0 | 115.2 | 116.5 | 117.7 | 117.7 |
| 40° | 1885.3 | 799.9 | 224.0 | 176.6 | 145.9 | 121.6 | 107.5 | 103.7 | 103.7 | 103.7 | 102.4 |
| 42.5° | 2036.3 | 796.1 | 208.6 | 160.0 | 130.5 | 107.5 | 97.3 | 92.2 | 89.6 | 88.3 | 85.8 |
| 45° | 2248.8 | 824.2 | 198.4 | 144.6 | 115.2 | 97.3 | 88.3 | 81.9 | 74.2 | 70.4 | 69.1 |
| 47.5° | 2522.7 | 897.2 | 189.4 | 130.5 | 101.1 | 88.3 | 79.4 | 70.4 | 60.2 | 55.0 | 53.8 |
| 50° | 2864.4 | 1011.1 | 180.5 | 119.0 | 90.9 | 79.4 | 69.1 | 57.6 | 47.4 | 42.2 | 42.2 |
| 52.5° | 3184.4 | 1145.5 | 171.5 | 108.8 | 80.6 | 73.0 | 58.9 | 46.1 | 37.1 | 33.3 | 32.0 |
| 55° | 3472.3 | 1296.5 | 161.3 | 97.3 | 73.0 | 64.0 | 48.6 | 35.8 | 26.9 | 23.0 | 21.8 |
| 57.5° | 3819.2 | 1487.2 | 148.5 | 85.8 | 65.3 | 55.0 | 38.4 | 25.6 | 17.9 | 12.8 | 11.5 |
| 60° | 4198.0 | 1583.2 | 131.8 | 75.5 | 56.3 | 46.1 | 29.4 | 17.9 | 10.2 | 5.1 | 5.1 |
| 62.5° | 4320.9 | 1535.9 | 111.4 | 65.3 | 48.6 | 37.1 | 21.8 | 11.5 | 3.8 | 0.0 | 0.0 |
| 65° | 4096.9 | 1315.7 | 94.7 | 57.6 | 42.2 | 28.2 | 15.4 | 6.4 | 0.0 | 0.0 | 0.0 |
| 67.5° | 3581.1 | 1023.9 | 78.1 | 49.9 | 35.8 | 23.0 | 10.2 | 1.3 | 0.0 | 0.0 | 0.0 |
| 70° | 2956.5 | 759.0 | 65.3 | 41.0 | 30.7 | 17.9 | 6.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 2282.0 | 538.8 | 56.3 | 34.6 | 25.6 | 14.1 | 3.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 1288.8 | 289.3 | 51.2 | 34.6 | 23.0 | 11.5 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 532.4 | 133.1 | 44.8 | 34.6 | 23.0 | 12.8 | 3.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 166.4 | 67.8 | 38.4 | 35.8 | 24.3 | 14.1 | 3.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 78.1 | 52.5 | 39.7 | 33.3 | 21.8 | 12.8 | 3.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 41.0 | 26.9 | 28.2 | 28.2 | 19.2 | 11.5 | 3.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 11.5 | 1.3 | 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)