

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: P1209085

Luminaire Tested: UPW-SA2-090-740-U-T3R

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209085
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-090-740-U-T3R
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

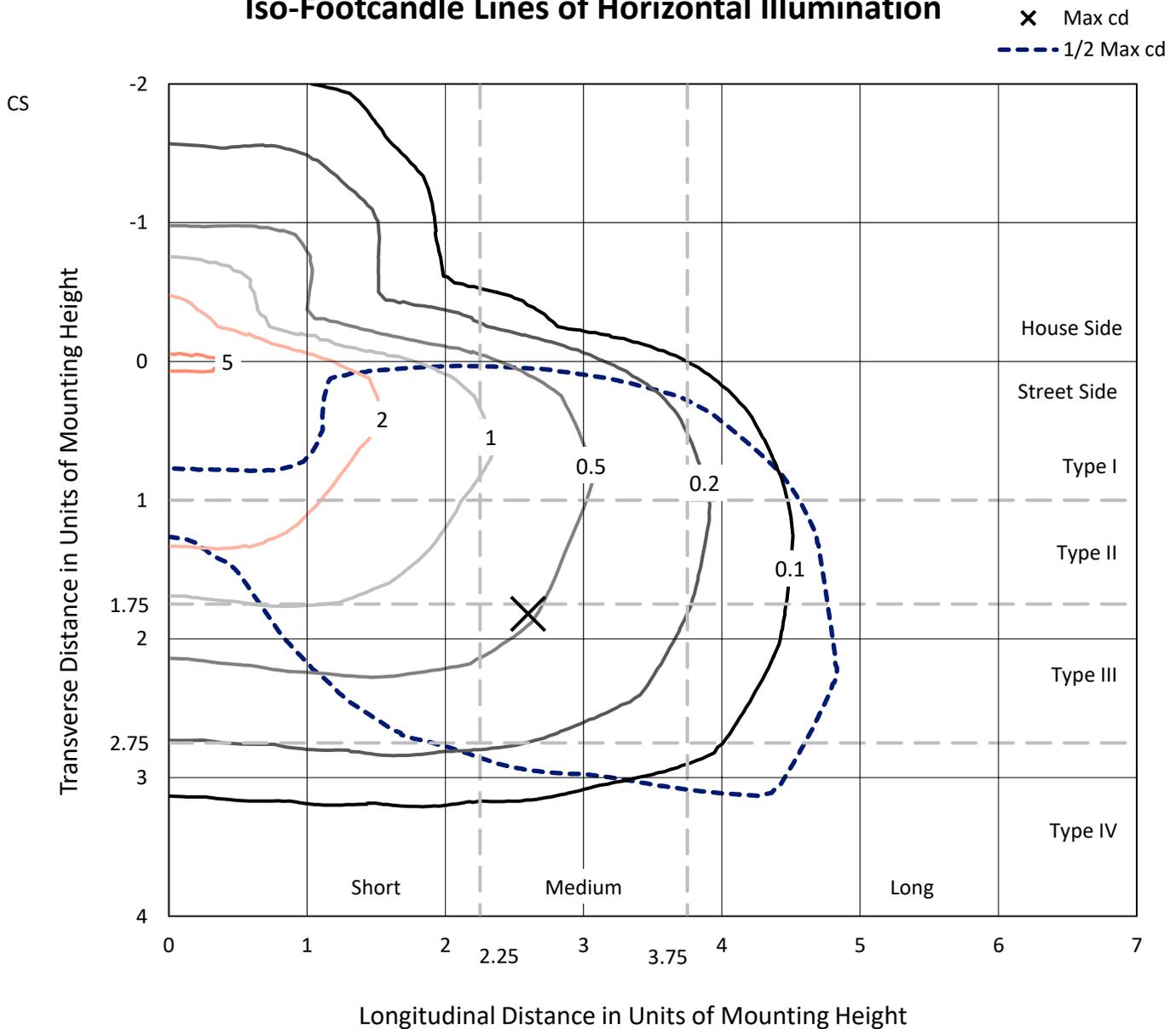
Lumens per Lamp: N/A
Luminaire Lumens: 12195 lumens
Efficiency: N/A
Efficacy: 141.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

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: P1209085
 CATALOG NUMBER: UPW-SA2-090-740-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

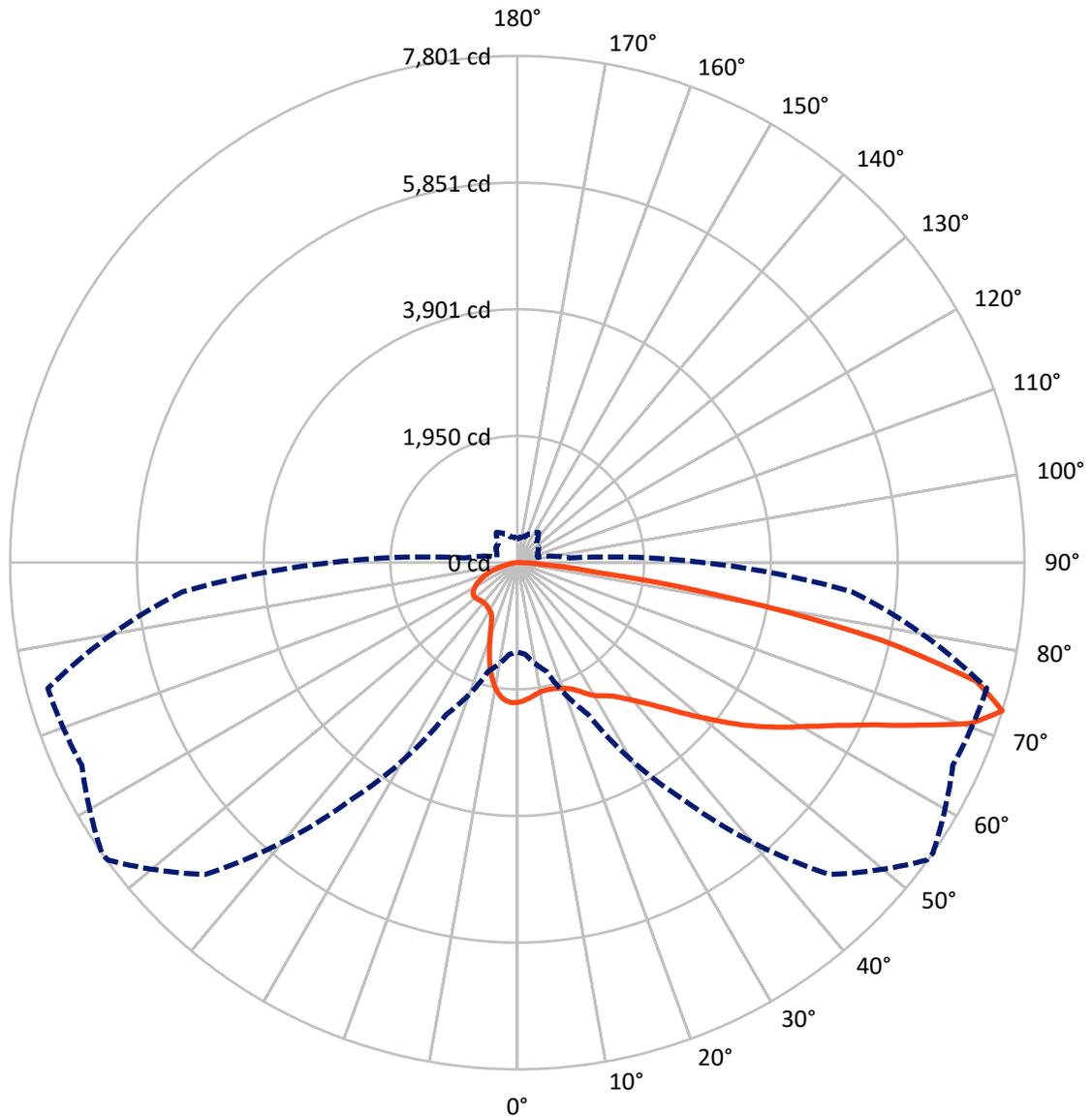


Based on 20 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Medium - N/A

REPORT NUMBER: P1209085

CATALOG NUMBER: UPW-SA2-090-740-U-T3R

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P1209085

CATALOG NUMBER: UPW-SA2-090-740-U-T3R

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2266.7 | 0.0 | 2266.7 |
| | % Fixture | 18.6 | 0.0 | 18.6 |
| Street Side | Lumens | 9928.3 | 0.0 | 9928.3 |
| | % Fixture | 81.4 | 0.0 | 81.4 |
| Total | Lumens | 12195.0 | 0.0 | 12195.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 194.6 | 1.6 |
| 10°-20° | 518.2 | 4.2 |
| 20°-30° | 854.4 | 7.0 |
| 30°-40° | 1263.8 | 10.4 |
| 40°-50° | 1764.0 | 14.5 |
| 50°-60° | 2296.8 | 18.8 |
| 60°-70° | 2822.7 | 23.1 |
| 70°-80° | 2212.7 | 18.1 |
| 80°-90° | 267.8 | 2.2 |
| 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° | 12195.0 | 100.0 |
| 0°-180° | 12195.0 | 100.0 |



REPORT NUMBER: P1209085

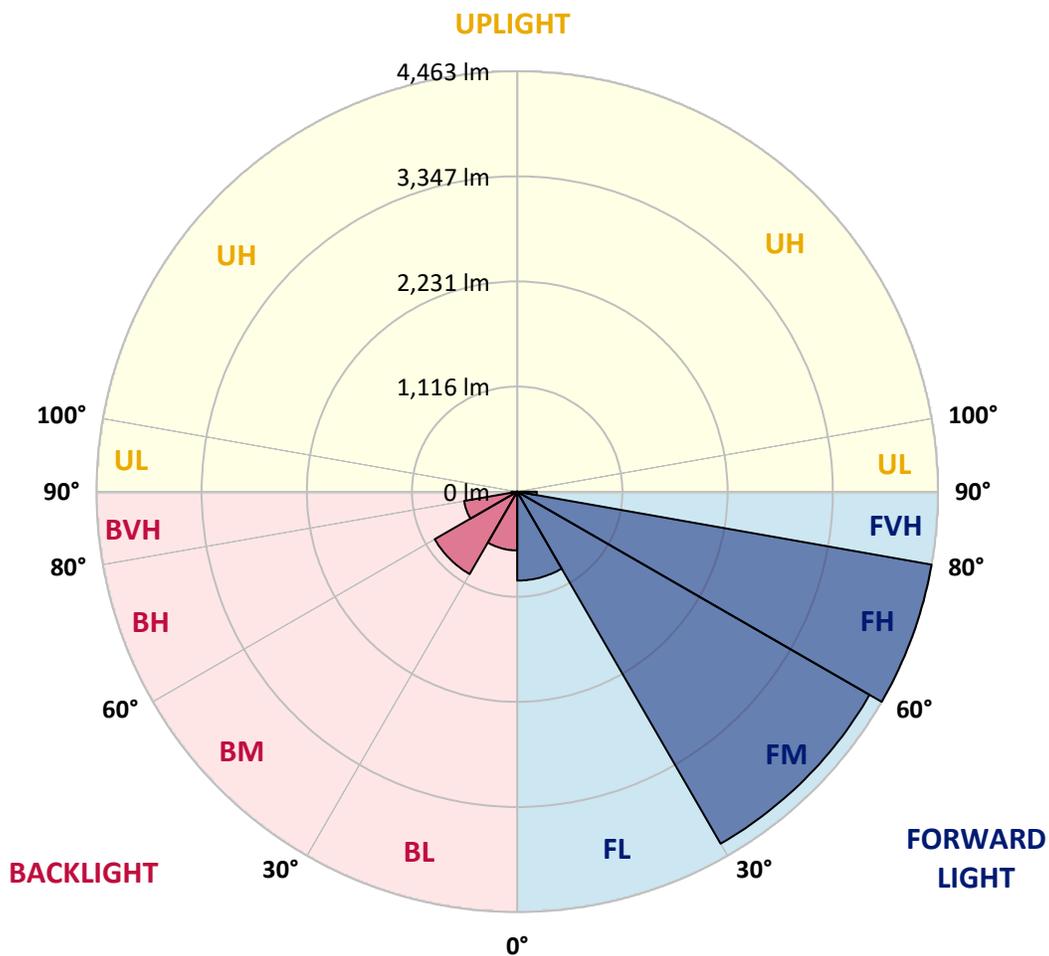
CATALOG NUMBER: UPW-SA2-090-740-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 943.5 | 7.7 | | | |
| FM | (30°-60°) | 4314.8 | 35.4 | | | |
| FH | (60°-80°) | 4462.9 | 36.6 | | | G2/5000 |
| FVH | (80°-90°) | 207.0 | 1.7 | | | G2/225 |
| BL | (0°-30°) | 623.6 | 5.1 | B2/1000 | | |
| BM | (30°-60°) | 1009.8 | 8.3 | B2/2500 | | |
| BH | (60°-80°) | 572.4 | 4.7 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 60.7 | 0.5 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type IV Medium





REPORT NUMBER: P1209085

CATALOG NUMBER: UPW-SA2-090-740-U-T3R

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2150.9 | 2150.9 | 2150.9 | 2150.9 | 2150.9 | 2150.9 | 2150.9 | 2150.9 | 2150.9 | 2150.9 | 2150.9 |
| 2.5° | 2080.9 | 2076.0 | 2082.1 | 2090.8 | 2100.3 | 2113.0 | 2120.5 | 2123.8 | 2136.5 | 2141.5 | 2152.2 |
| 5° | 1984.5 | 1982.1 | 1992.4 | 2007.2 | 2028.2 | 2057.8 | 2081.7 | 2086.3 | 2120.0 | 2143.9 | 2165.8 |
| 7.5° | 1914.5 | 1914.5 | 1926.5 | 1944.2 | 1967.6 | 2007.6 | 2041.4 | 2047.5 | 2104.8 | 2156.3 | 2196.7 |
| 10° | 1858.9 | 1861.0 | 1875.0 | 1896.0 | 1923.6 | 1966.0 | 2010.9 | 2017.9 | 2100.7 | 2185.1 | 2249.4 |
| 12.5° | 1821.8 | 1826.8 | 1839.5 | 1858.5 | 1892.7 | 1944.2 | 2001.0 | 2010.5 | 2109.3 | 2226.3 | 2312.8 |
| 15° | 1845.3 | 1853.5 | 1854.8 | 1862.6 | 1881.6 | 1937.6 | 2006.8 | 2016.7 | 2127.9 | 2268.3 | 2384.9 |
| 17.5° | 1948.3 | 1951.2 | 1938.4 | 1921.9 | 1912.9 | 1948.7 | 2024.1 | 2034.4 | 2150.1 | 2309.9 | 2454.1 |
| 20° | 2104.8 | 2103.2 | 2075.6 | 2031.1 | 1984.9 | 1990.7 | 2052.5 | 2063.2 | 2180.2 | 2346.6 | 2523.3 |
| 22.5° | 2302.5 | 2296.7 | 2254.3 | 2172.4 | 2093.7 | 2060.7 | 2102.3 | 2111.4 | 2225.5 | 2398.9 | 2597.4 |
| 25° | 2542.2 | 2529.5 | 2473.5 | 2363.5 | 2247.7 | 2162.9 | 2177.3 | 2185.9 | 2291.4 | 2457.4 | 2665.4 |
| 27.5° | 2795.1 | 2782.4 | 2711.1 | 2578.1 | 2424.0 | 2291.8 | 2280.7 | 2288.1 | 2366.4 | 2500.6 | 2715.6 |
| 30° | 3059.6 | 3046.0 | 2980.9 | 2831.8 | 2611.0 | 2425.3 | 2377.1 | 2380.0 | 2419.1 | 2524.1 | 2756.8 |
| 32.5° | 3325.3 | 3312.5 | 3239.6 | 3066.6 | 2814.1 | 2568.6 | 2446.7 | 2443.0 | 2450.8 | 2548.4 | 2803.4 |
| 35° | 3594.6 | 3599.6 | 3514.3 | 3322.8 | 3039.0 | 2728.0 | 2529.1 | 2521.2 | 2503.9 | 2598.3 | 2869.3 |
| 37.5° | 3883.0 | 3879.7 | 3769.3 | 3569.1 | 3274.2 | 2901.0 | 2647.3 | 2646.0 | 2586.3 | 2692.6 | 2972.7 |
| 40° | 4075.7 | 4077.8 | 4010.7 | 3821.2 | 3511.8 | 3092.5 | 2798.9 | 2796.0 | 2717.7 | 2833.9 | 3108.2 |
| 42.5° | 4151.1 | 4164.7 | 4182.0 | 4061.7 | 3760.6 | 3314.5 | 2979.7 | 2975.6 | 2901.0 | 3036.5 | 3267.6 |
| 45° | 4156.5 | 4183.7 | 4290.7 | 4275.5 | 4012.7 | 3568.7 | 3210.8 | 3199.2 | 3145.7 | 3305.9 | 3457.9 |
| 47.5° | 4110.3 | 4138.3 | 4316.3 | 4402.8 | 4238.0 | 3836.8 | 3481.0 | 3471.9 | 3425.8 | 3642.8 | 3663.8 |
| 50° | 4009.4 | 4036.2 | 4263.6 | 4465.0 | 4423.4 | 4094.7 | 3792.4 | 3768.5 | 3743.7 | 4032.1 | 3899.4 |
| 52.5° | 3820.4 | 3871.8 | 4193.1 | 4479.8 | 4534.2 | 4323.7 | 4119.8 | 4104.2 | 4117.8 | 4442.7 | 4135.5 |
| 55° | 3372.6 | 3430.3 | 4011.5 | 4467.5 | 4616.2 | 4516.1 | 4447.3 | 4446.4 | 4516.9 | 4873.6 | 4388.8 |
| 57.5° | 3121.8 | 3162.6 | 3641.6 | 4446.4 | 4713.4 | 4707.2 | 4771.4 | 4779.3 | 4916.4 | 5342.7 | 4654.0 |
| 60° | 2980.1 | 3022.9 | 3454.2 | 4368.6 | 4864.1 | 4954.3 | 5102.2 | 5117.8 | 5322.6 | 5862.1 | 4973.3 |
| 62.5° | 2851.2 | 2898.1 | 3338.0 | 4210.0 | 5041.6 | 5307.7 | 5498.4 | 5512.4 | 5752.6 | 6396.0 | 5281.8 |
| 65° | 2630.8 | 2683.9 | 3167.9 | 4105.8 | 5203.1 | 5768.6 | 6002.2 | 6011.7 | 6246.4 | 6955.3 | 5517.8 |
| 67.5° | 2319.4 | 2368.0 | 2847.0 | 3875.6 | 5322.6 | 6328.4 | 6671.9 | 6677.3 | 6736.2 | 7350.3 | 5638.5 |
| 70° | 1955.7 | 1974.2 | 2389.8 | 3400.2 | 5181.3 | 6851.9 | 7405.9 | 7407.2 | 7182.7 | 7603.2 | 5618.7 |
| 72.5° | 1374.1 | 1417.8 | 1734.9 | 2574.0 | 4452.6 | 6788.1 | 7786.9 | 7801.0 | 7390.3 | 7475.6 | 5169.7 |
| 75° | 842.7 | 888.9 | 1088.2 | 1559.9 | 2824.8 | 5338.6 | 7194.6 | 7291.8 | 7001.0 | 6665.3 | 4223.2 |
| 77.5° | 563.5 | 580.8 | 710.1 | 909.5 | 1279.8 | 3071.5 | 5531.4 | 5714.3 | 5816.0 | 4860.8 | 2700.8 |
| 80° | 314.3 | 347.2 | 470.8 | 565.1 | 569.2 | 1220.5 | 3316.6 | 3359.4 | 3235.9 | 1935.5 | 833.3 |
| 82.5° | 166.4 | 184.5 | 314.3 | 332.0 | 310.6 | 408.6 | 1236.1 | 1237.3 | 1033.9 | 519.0 | 247.6 |
| 85° | 128.9 | 144.2 | 215.4 | 202.7 | 158.6 | 181.2 | 407.8 | 430.0 | 351.8 | 212.5 | 80.7 |
| 87.5° | 64.3 | 79.9 | 146.2 | 128.5 | 62.2 | 51.9 | 145.8 | 155.7 | 138.8 | 83.2 | 29.2 |
| 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: P1209085

CATALOG NUMBER: UPW-SA2-090-740-U-T3R

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2150.9 | 2150.9 | 2150.9 | 2150.9 | 2150.9 | 2150.9 | 2150.9 | 2150.9 | 2150.9 | 2150.9 | 2150.9 |
| 2.5° | 2156.3 | 2160.0 | 2164.5 | 2159.6 | 2157.9 | 2151.3 | 2140.2 | 2137.8 | 2132.0 | 2132.4 | 2135.7 |
| 5° | 2175.2 | 2181.4 | 2178.9 | 2160.0 | 2137.3 | 2105.6 | 2072.7 | 2044.7 | 2026.1 | 2024.9 | 2023.7 |
| 7.5° | 2211.5 | 2215.6 | 2196.2 | 2142.3 | 2078.9 | 2005.5 | 1936.3 | 1875.8 | 1839.1 | 1830.1 | 1828.0 |
| 10° | 2268.3 | 2267.5 | 2214.4 | 2105.6 | 1979.2 | 1848.2 | 1737.0 | 1652.9 | 1603.9 | 1589.5 | 1585.8 |
| 12.5° | 2331.8 | 2322.3 | 2220.5 | 2038.9 | 1838.3 | 1656.7 | 1515.8 | 1422.3 | 1371.2 | 1354.7 | 1350.6 |
| 15° | 2397.3 | 2373.8 | 2205.3 | 1939.2 | 1665.3 | 1450.3 | 1302.4 | 1215.9 | 1188.3 | 1179.3 | 1177.6 |
| 17.5° | 2458.2 | 2412.9 | 2161.6 | 1804.1 | 1468.0 | 1244.8 | 1129.4 | 1094.8 | 1101.4 | 1113.4 | 1113.8 |
| 20° | 2517.9 | 2439.3 | 2091.6 | 1633.6 | 1260.0 | 1075.5 | 1036.3 | 1061.9 | 1093.2 | 1117.5 | 1120.8 |
| 22.5° | 2576.8 | 2457.8 | 2001.4 | 1436.7 | 1073.8 | 980.3 | 1007.9 | 1054.5 | 1090.3 | 1116.7 | 1121.2 |
| 25° | 2626.3 | 2462.3 | 1877.0 | 1226.6 | 944.5 | 944.5 | 994.3 | 1038.4 | 1073.8 | 1099.8 | 1104.3 |
| 27.5° | 2644.4 | 2431.9 | 1701.6 | 1032.2 | 879.4 | 928.0 | 975.4 | 1012.0 | 1042.1 | 1069.7 | 1074.6 |
| 30° | 2651.4 | 2375.4 | 1498.9 | 876.1 | 852.6 | 910.3 | 949.8 | 981.1 | 1009.6 | 1035.5 | 1040.0 |
| 32.5° | 2652.6 | 2307.5 | 1283.9 | 787.6 | 834.1 | 891.8 | 918.1 | 945.7 | 976.2 | 986.5 | 988.1 |
| 35° | 2660.5 | 2227.1 | 1057.3 | 742.2 | 816.8 | 874.5 | 895.5 | 915.2 | 865.8 | 869.5 | 872.8 |
| 37.5° | 2683.1 | 2147.6 | 867.9 | 716.7 | 805.7 | 865.4 | 890.5 | 818.9 | 780.1 | 771.1 | 769.8 |
| 40° | 2725.5 | 2062.8 | 727.4 | 696.1 | 801.6 | 869.9 | 858.8 | 764.5 | 697.8 | 647.9 | 640.5 |
| 42.5° | 2784.4 | 1971.3 | 637.6 | 682.5 | 804.4 | 891.8 | 814.7 | 712.2 | 601.4 | 569.2 | 565.1 |
| 45° | 2850.8 | 1875.4 | 589.0 | 673.0 | 814.3 | 908.6 | 805.7 | 642.6 | 556.5 | 532.2 | 530.1 |
| 47.5° | 2915.0 | 1758.0 | 563.9 | 668.9 | 827.9 | 895.1 | 767.4 | 621.1 | 535.1 | 522.3 | 523.5 |
| 50° | 2988.7 | 1652.1 | 548.6 | 664.4 | 839.9 | 886.4 | 724.1 | 610.0 | 526.8 | 542.5 | 558.9 |
| 52.5° | 3050.9 | 1542.6 | 535.1 | 655.3 | 844.4 | 871.2 | 713.0 | 612.1 | 526.8 | 556.9 | 572.5 |
| 55° | 3124.7 | 1459.8 | 519.4 | 636.4 | 835.7 | 827.9 | 705.2 | 624.4 | 533.0 | 514.0 | 515.7 |
| 57.5° | 3219.8 | 1432.6 | 502.1 | 606.7 | 806.9 | 764.9 | 701.5 | 636.4 | 529.3 | 517.3 | 521.5 |
| 60° | 3351.6 | 1461.4 | 495.1 | 568.0 | 762.0 | 715.5 | 701.9 | 630.2 | 503.3 | 482.7 | 483.2 |
| 62.5° | 3477.2 | 1493.5 | 494.7 | 543.7 | 706.8 | 671.4 | 692.4 | 610.0 | 490.2 | 478.2 | 482.7 |
| 65° | 3518.4 | 1461.0 | 474.9 | 516.5 | 644.6 | 618.7 | 675.1 | 588.6 | 480.3 | 462.2 | 461.3 |
| 67.5° | 3463.2 | 1360.1 | 435.0 | 472.4 | 573.4 | 557.3 | 652.4 | 563.1 | 464.6 | 449.8 | 447.3 |
| 70° | 3299.3 | 1134.8 | 385.5 | 414.4 | 492.2 | 488.1 | 616.6 | 533.4 | 443.6 | 430.8 | 420.1 |
| 72.5° | 2858.2 | 808.6 | 325.0 | 344.8 | 400.8 | 414.0 | 567.2 | 494.7 | 414.0 | 386.4 | 369.9 |
| 75° | 2347.4 | 598.5 | 266.9 | 271.0 | 304.4 | 340.2 | 499.2 | 449.4 | 378.9 | 332.0 | 319.2 |
| 77.5° | 1437.5 | 366.2 | 212.5 | 214.2 | 218.3 | 271.4 | 411.1 | 398.7 | 334.5 | 276.8 | 267.7 |
| 80° | 465.4 | 199.8 | 153.6 | 161.5 | 149.1 | 198.9 | 318.0 | 339.4 | 287.1 | 231.5 | 221.6 |
| 82.5° | 177.1 | 116.6 | 103.8 | 109.2 | 103.4 | 133.5 | 231.9 | 271.9 | 235.2 | 190.3 | 154.9 |
| 85° | 85.7 | 65.9 | 61.4 | 68.8 | 63.8 | 68.4 | 148.3 | 200.2 | 178.4 | 124.0 | 115.3 |
| 87.5° | 30.5 | 29.2 | 23.5 | 31.7 | 27.2 | 24.3 | 45.3 | 100.9 | 117.8 | 85.3 | 76.2 |
| 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)