

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: P1209405

Luminaire Tested: UPW-SA2-110-827-U-T2R

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209405
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-110-827-U-T2R
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11305 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

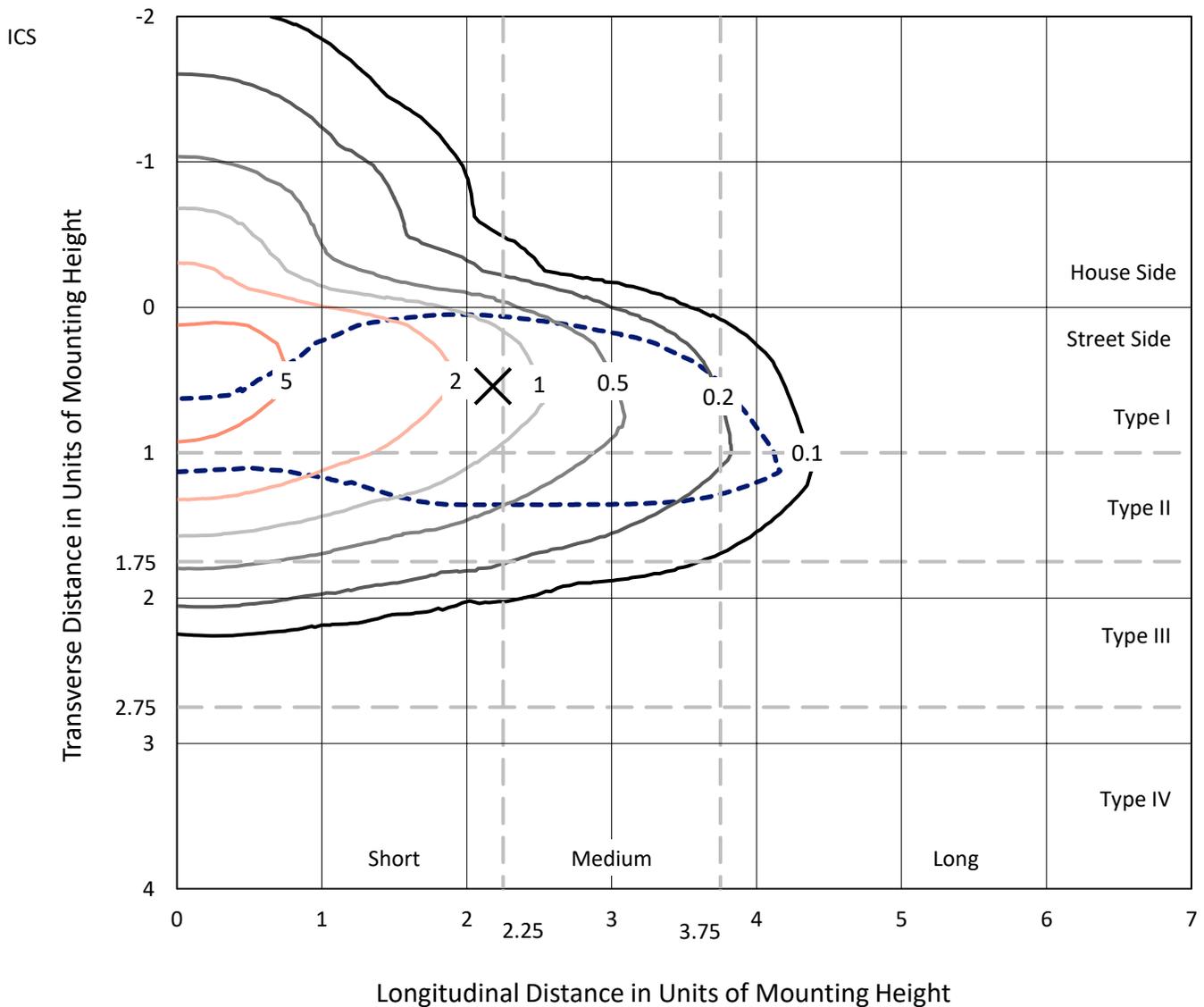
Input Watts (W): 111
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

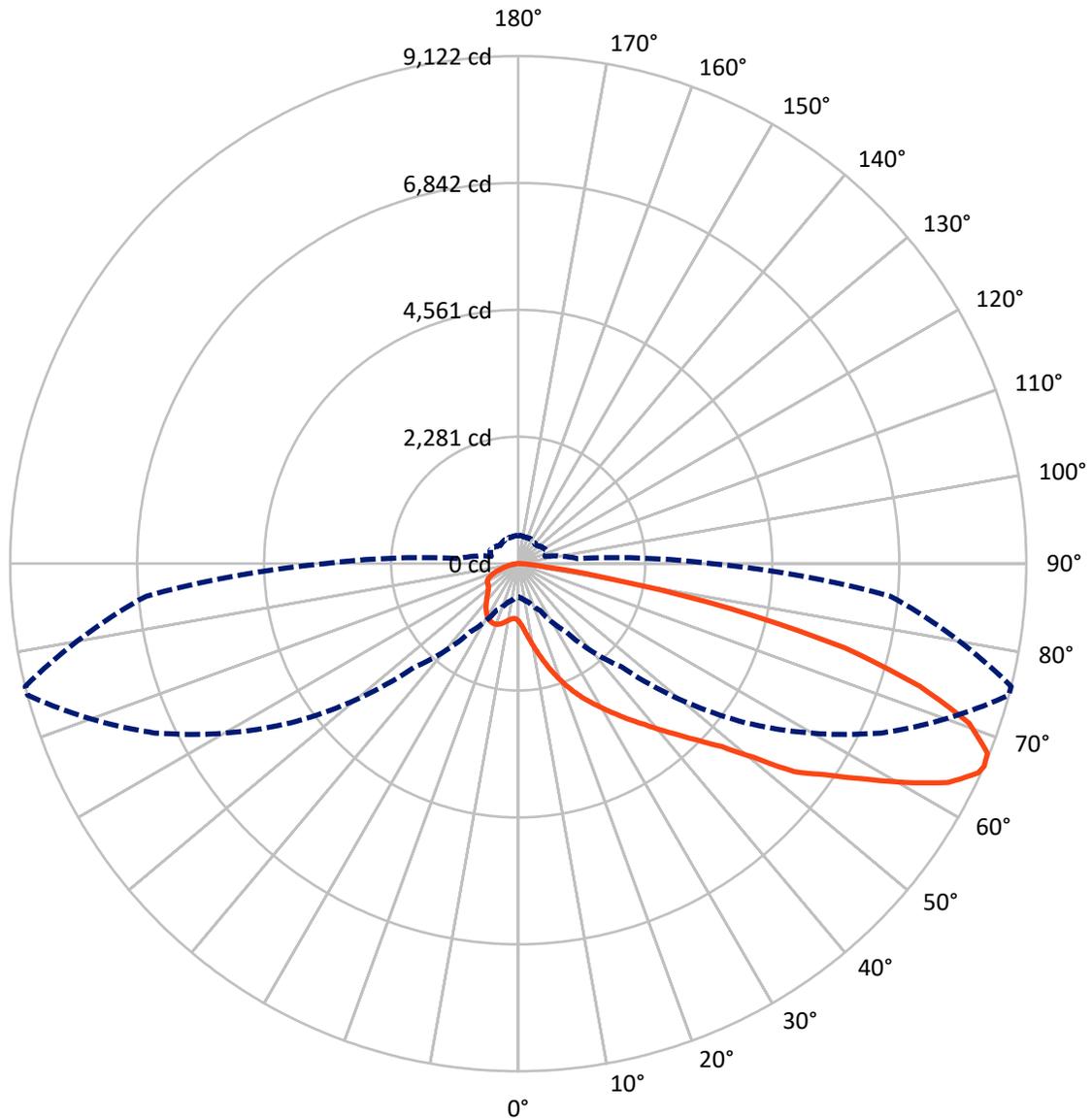
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1902.2 | 0.0 | 1902.2 |
| | % Fixture | 16.8 | 0.0 | 16.8 |
| Street Side | Lumens | 9402.8 | 0.0 | 9402.8 |
| | % Fixture | 83.2 | 0.0 | 83.2 |
| Total | Lumens | 11305.0 | 0.0 | 11305.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 124.8 | 1.1 |
| 10°-20° | 493.0 | 4.4 |
| 20°-30° | 958.0 | 8.5 |
| 30°-40° | 1563.7 | 13.8 |
| 40°-50° | 2136.4 | 18.9 |
| 50°-60° | 2488.5 | 22.0 |
| 60°-70° | 2231.0 | 19.7 |
| 70°-80° | 1127.4 | 10.0 |
| 80°-90° | 182.1 | 1.6 |
| 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° | 11305.0 | 100.0 |
| 0°-180° | 11305.0 | 100.0 |



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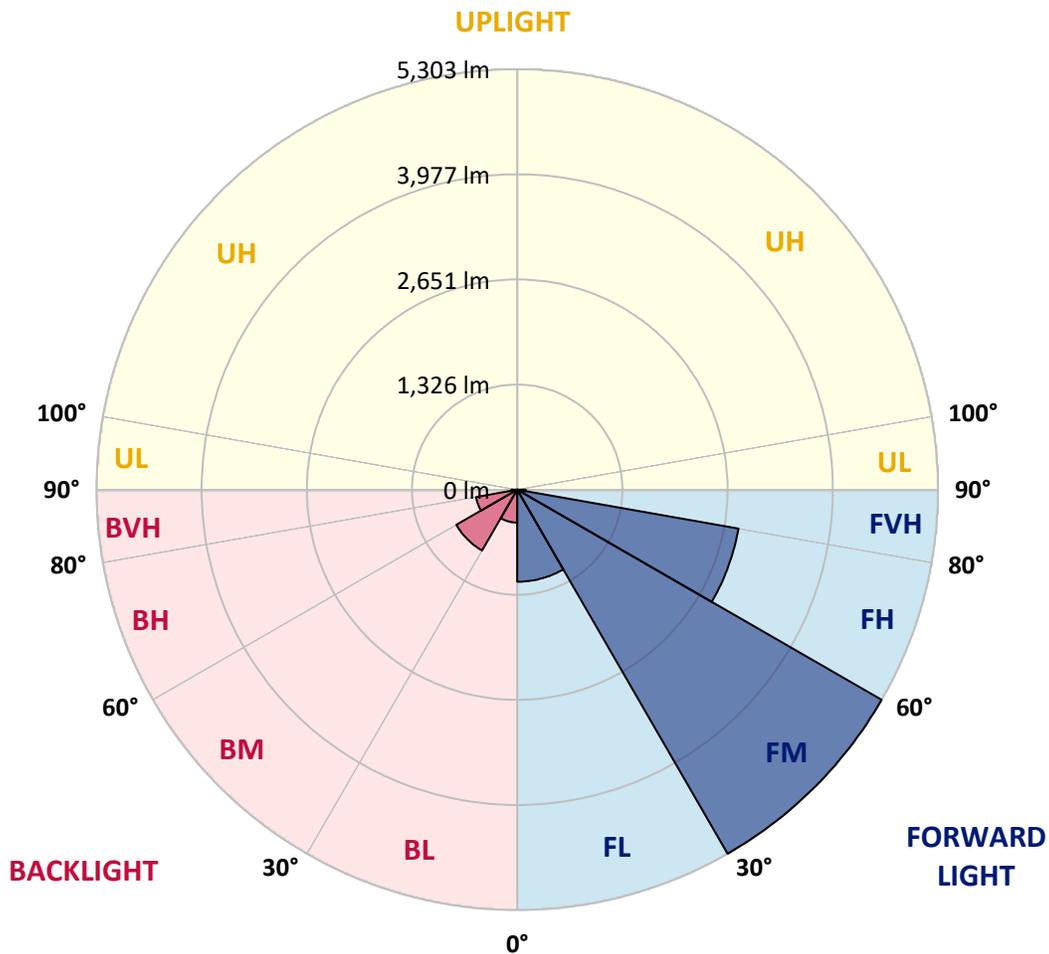
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1161.0 | 10.3 | | | |
| FM (30°-60°) | 5302.8 | 46.9 | | | |
| FH (60°-80°) | 2831.4 | 25.0 | | | G2/5000 |
| FVH (80°-90°) | 107.5 | 1.0 | | | G2/225 |
| BL (0°-30°) | 414.9 | 3.7 | B1/500 | | |
| BM (30°-60°) | 885.8 | 7.8 | B1/1000 | | |
| BH (60°-80°) | 527.0 | 4.7 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 74.5 | 0.7 | | | 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 II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1032.4 | 1032.4 | 1032.4 | 1032.4 | 1032.4 | 1032.4 | 1032.4 | 1032.4 | 1032.4 | 1032.4 | 1032.4 |
| 2.5° | 1370.5 | 1349.8 | 1347.9 | 1317.6 | 1310.7 | 1252.7 | 1210.1 | 1165.6 | 1114.9 | 1104.9 | 1065.0 |
| 5° | 1760.5 | 1758.5 | 1732.1 | 1682.5 | 1643.8 | 1544.8 | 1446.9 | 1343.3 | 1229.7 | 1211.2 | 1121.4 |
| 7.5° | 2111.2 | 2108.2 | 2087.8 | 2034.5 | 1978.4 | 1856.8 | 1717.1 | 1558.2 | 1374.0 | 1346.7 | 1197.8 |
| 10° | 2377.6 | 2376.4 | 2369.5 | 2330.4 | 2282.8 | 2166.1 | 2011.8 | 1795.0 | 1541.7 | 1504.5 | 1293.4 |
| 12.5° | 2583.3 | 2585.6 | 2590.2 | 2576.4 | 2553.8 | 2454.4 | 2296.2 | 2046.0 | 1720.5 | 1683.7 | 1399.7 |
| 15° | 2722.6 | 2729.5 | 2753.3 | 2772.9 | 2784.8 | 2723.8 | 2570.6 | 2302.8 | 1920.9 | 1876.7 | 1517.5 |
| 17.5° | 2792.9 | 2800.5 | 2841.6 | 2900.7 | 2955.2 | 2949.1 | 2827.4 | 2547.6 | 2113.2 | 2070.6 | 1644.2 |
| 20° | 2853.5 | 2859.3 | 2905.3 | 2976.3 | 3072.6 | 3115.2 | 3046.9 | 2783.3 | 2323.9 | 2273.2 | 1778.5 |
| 22.5° | 3029.3 | 3036.6 | 3050.4 | 3090.7 | 3175.9 | 3254.2 | 3221.2 | 3006.2 | 2516.9 | 2469.7 | 1905.9 |
| 25° | 3368.5 | 3377.4 | 3347.4 | 3313.3 | 3329.4 | 3383.9 | 3390.0 | 3209.7 | 2712.6 | 2659.3 | 2042.9 |
| 27.5° | 3777.3 | 3789.9 | 3738.9 | 3651.0 | 3574.3 | 3553.1 | 3545.9 | 3376.2 | 2899.6 | 2837.8 | 2178.4 |
| 30° | 4177.6 | 4199.5 | 4133.1 | 4019.1 | 3878.2 | 3779.2 | 3705.9 | 3539.3 | 3083.8 | 3024.7 | 2306.2 |
| 32.5° | 4568.7 | 4559.8 | 4463.5 | 4352.2 | 4187.2 | 4063.2 | 3885.9 | 3714.3 | 3291.0 | 3223.1 | 2433.2 |
| 35° | 4836.6 | 4839.6 | 4750.2 | 4618.2 | 4460.8 | 4365.6 | 4126.9 | 3903.2 | 3502.5 | 3439.9 | 2577.5 |
| 37.5° | 5064.5 | 5050.3 | 4949.0 | 4825.8 | 4690.3 | 4649.6 | 4409.0 | 4111.2 | 3731.6 | 3663.3 | 2731.1 |
| 40° | 5140.5 | 5124.0 | 5057.6 | 4969.0 | 4860.3 | 4856.9 | 4720.3 | 4346.8 | 3990.7 | 3923.1 | 2904.2 |
| 42.5° | 5094.5 | 5073.4 | 5046.1 | 5021.9 | 4988.5 | 5003.9 | 5012.7 | 4623.2 | 4275.4 | 4199.8 | 3104.5 |
| 45° | 4924.4 | 4892.6 | 4911.8 | 4964.4 | 5036.9 | 5123.6 | 5276.8 | 4929.0 | 4594.4 | 4531.1 | 3339.8 |
| 47.5° | 4663.1 | 4634.3 | 4694.2 | 4806.6 | 5003.9 | 5223.4 | 5526.6 | 5266.8 | 4975.1 | 4912.2 | 3674.8 |
| 50° | 4295.4 | 4303.8 | 4389.4 | 4594.0 | 4892.2 | 5269.5 | 5834.4 | 5713.9 | 5528.5 | 5469.8 | 4131.9 |
| 52.5° | 3692.1 | 3693.6 | 3934.6 | 4270.5 | 4694.2 | 5245.7 | 6005.2 | 6285.4 | 6284.2 | 6213.2 | 4567.1 |
| 55° | 3131.7 | 3165.9 | 3356.6 | 3803.0 | 4373.3 | 5150.5 | 6124.6 | 6563.2 | 6780.5 | 6697.2 | 4972.8 |
| 57.5° | 2584.5 | 2604.4 | 2785.2 | 3233.5 | 3915.4 | 4896.8 | 6247.0 | 6896.7 | 7352.3 | 7299.7 | 5477.1 |
| 60° | 1961.9 | 1992.6 | 2179.6 | 2593.7 | 3329.8 | 4446.6 | 6258.5 | 7244.8 | 8035.8 | 7982.9 | 6040.1 |
| 62.5° | 1273.4 | 1326.4 | 1501.4 | 1889.4 | 2621.3 | 3799.2 | 5991.4 | 7472.4 | 8683.7 | 8664.9 | 6539.8 |
| 65° | 731.9 | 771.8 | 893.5 | 1192.8 | 1808.4 | 2986.3 | 5356.2 | 7384.9 | 9082.4 | 9071.7 | 6726.7 |
| 66° | 597.9 | 622.9 | 716.2 | 932.2 | 1492.2 | 2622.5 | 4987.0 | 7200.3 | 9122.0 | 9122.4 | 6705.2 |
| 67.5° | 478.2 | 489.3 | 531.2 | 667.4 | 1101.1 | 2078.6 | 4327.3 | 6793.1 | 9072.9 | 9086.3 | 6566.7 |
| 70° | 395.7 | 401.4 | 414.5 | 447.5 | 601.0 | 1253.5 | 3071.5 | 5735.0 | 8579.7 | 8590.0 | 6025.9 |
| 72.5° | 355.0 | 358.5 | 363.5 | 368.1 | 424.1 | 700.4 | 1876.0 | 4587.9 | 7522.3 | 7535.8 | 5201.9 |
| 75° | 321.6 | 323.5 | 322.8 | 323.2 | 355.8 | 446.4 | 969.5 | 3425.3 | 6082.3 | 6055.5 | 3984.9 |
| 77.5° | 282.5 | 284.4 | 280.6 | 281.3 | 314.7 | 343.1 | 482.4 | 2397.9 | 4104.7 | 3915.1 | 2245.2 |
| 80° | 238.7 | 240.3 | 238.7 | 241.4 | 274.0 | 259.1 | 280.6 | 1349.0 | 1815.0 | 1716.7 | 798.3 |
| 82.5° | 180.4 | 186.9 | 191.5 | 202.3 | 225.7 | 184.2 | 187.7 | 525.4 | 552.7 | 526.2 | 244.9 |
| 85° | 79.1 | 96.3 | 144.3 | 154.7 | 169.6 | 110.5 | 123.2 | 214.2 | 224.9 | 218.0 | 89.0 |
| 87.5° | 20.7 | 22.6 | 71.4 | 89.8 | 94.0 | 49.9 | 64.1 | 97.5 | 102.9 | 97.5 | 29.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: UPW-SA2-110-827-U-T2R

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1032.4 | 1032.4 | 1032.4 | 1032.4 | 1032.4 | 1032.4 | 1032.4 | 1032.4 | 1032.4 | 1032.4 | 1032.4 |
| 2.5° | 1043.9 | 1025.1 | 991.3 | 961.4 | 938.8 | 923.4 | 908.1 | 900.4 | 895.8 | 891.2 | 891.9 |
| 5° | 1077.3 | 1039.3 | 981.4 | 940.3 | 917.3 | 902.7 | 895.0 | 891.9 | 890.0 | 885.4 | 885.4 |
| 7.5° | 1127.6 | 1073.9 | 994.0 | 951.8 | 933.8 | 922.6 | 918.0 | 916.5 | 914.2 | 908.8 | 909.6 |
| 10° | 1190.9 | 1115.7 | 1020.5 | 979.4 | 962.9 | 950.7 | 944.1 | 941.8 | 937.6 | 931.5 | 932.2 |
| 12.5° | 1265.4 | 1167.5 | 1055.4 | 1012.4 | 992.5 | 976.0 | 965.2 | 958.7 | 951.4 | 943.4 | 943.7 |
| 15° | 1346.7 | 1223.9 | 1093.0 | 1042.0 | 1014.7 | 991.7 | 974.4 | 963.3 | 951.8 | 941.8 | 941.4 |
| 17.5° | 1429.2 | 1278.4 | 1121.8 | 1058.1 | 1021.3 | 991.0 | 967.5 | 950.3 | 936.1 | 923.8 | 922.6 |
| 20° | 1518.3 | 1327.5 | 1137.9 | 1056.6 | 1009.0 | 972.9 | 941.8 | 920.3 | 904.6 | 892.3 | 890.4 |
| 22.5° | 1608.9 | 1373.6 | 1140.6 | 1040.8 | 981.7 | 937.6 | 905.0 | 881.2 | 865.1 | 852.4 | 847.8 |
| 25° | 1691.8 | 1409.3 | 1129.5 | 1010.5 | 943.7 | 896.2 | 864.3 | 840.1 | 827.1 | 812.1 | 807.5 |
| 27.5° | 1767.4 | 1434.2 | 1107.2 | 971.8 | 901.1 | 854.3 | 824.4 | 803.7 | 789.5 | 777.9 | 774.1 |
| 30° | 1835.3 | 1447.7 | 1070.8 | 925.7 | 857.4 | 814.8 | 789.5 | 775.3 | 763.0 | 748.4 | 745.7 |
| 32.5° | 1899.8 | 1447.7 | 1024.0 | 875.4 | 814.0 | 779.9 | 764.9 | 756.1 | 742.3 | 728.1 | 724.2 |
| 35° | 1964.2 | 1438.8 | 968.7 | 822.9 | 774.1 | 754.9 | 754.2 | 743.8 | 722.7 | 703.5 | 698.5 |
| 37.5° | 2032.2 | 1420.8 | 906.5 | 773.7 | 741.5 | 743.8 | 750.3 | 727.3 | 697.4 | 670.1 | 662.8 |
| 40° | 2108.9 | 1395.9 | 842.0 | 731.1 | 714.2 | 738.8 | 740.0 | 703.5 | 645.2 | 620.2 | 613.7 |
| 42.5° | 2199.1 | 1370.9 | 782.2 | 693.5 | 692.7 | 723.8 | 720.4 | 652.1 | 617.1 | 604.5 | 601.0 |
| 45° | 2317.7 | 1356.7 | 725.4 | 657.8 | 675.9 | 699.7 | 687.0 | 623.7 | 609.1 | 601.8 | 598.7 |
| 47.5° | 2504.6 | 1364.0 | 673.2 | 629.4 | 659.0 | 675.5 | 624.8 | 612.1 | 601.8 | 593.0 | 589.9 |
| 50° | 2738.7 | 1359.8 | 631.0 | 609.8 | 639.8 | 650.1 | 596.8 | 597.2 | 591.8 | 581.8 | 577.2 |
| 52.5° | 2914.9 | 1326.8 | 603.7 | 598.7 | 622.9 | 605.2 | 579.1 | 582.6 | 579.9 | 565.3 | 560.3 |
| 55° | 3084.9 | 1298.4 | 589.9 | 594.5 | 610.6 | 549.2 | 558.4 | 566.9 | 564.2 | 550.0 | 547.7 |
| 57.5° | 3296.4 | 1293.0 | 581.4 | 595.6 | 600.3 | 521.2 | 538.5 | 549.6 | 547.7 | 541.5 | 540.4 |
| 60° | 3555.5 | 1294.5 | 573.8 | 597.6 | 588.7 | 500.5 | 519.7 | 533.9 | 535.0 | 533.9 | 533.1 |
| 62.5° | 3697.8 | 1252.7 | 554.6 | 592.2 | 568.4 | 482.4 | 500.1 | 520.8 | 521.2 | 523.5 | 523.1 |
| 65° | 3576.9 | 1127.6 | 518.9 | 573.4 | 534.2 | 467.5 | 483.2 | 505.8 | 500.1 | 510.4 | 510.4 |
| 66° | 3459.5 | 1055.4 | 501.2 | 561.1 | 519.7 | 461.7 | 477.8 | 498.2 | 490.9 | 505.1 | 505.1 |
| 67.5° | 3219.6 | 933.8 | 469.4 | 535.0 | 498.9 | 453.6 | 471.7 | 485.5 | 475.5 | 496.6 | 495.1 |
| 70° | 2781.3 | 722.3 | 405.3 | 475.9 | 464.8 | 441.7 | 463.2 | 460.2 | 445.6 | 477.8 | 471.7 |
| 72.5° | 2345.0 | 548.8 | 325.5 | 398.4 | 413.0 | 426.8 | 451.3 | 427.9 | 409.5 | 432.2 | 418.7 |
| 75° | 1819.6 | 412.6 | 257.1 | 309.7 | 348.9 | 403.4 | 437.1 | 390.7 | 364.2 | 361.9 | 354.6 |
| 77.5° | 983.7 | 283.2 | 203.8 | 236.4 | 277.1 | 374.2 | 427.5 | 350.8 | 310.9 | 301.7 | 295.9 |
| 80° | 389.5 | 184.2 | 148.1 | 179.2 | 193.8 | 332.0 | 404.5 | 304.3 | 256.4 | 247.2 | 238.3 |
| 82.5° | 160.8 | 109.0 | 95.6 | 120.1 | 126.3 | 284.0 | 363.1 | 249.5 | 198.0 | 274.0 | 290.9 |
| 85° | 69.1 | 59.9 | 56.8 | 62.2 | 71.4 | 199.2 | 289.0 | 190.4 | 213.8 | 190.7 | 151.6 |
| 87.5° | 20.7 | 25.3 | 24.2 | 23.8 | 26.1 | 47.6 | 153.9 | 105.9 | 157.0 | 59.5 | 44.5 |
| 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)