

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: P1208838

Luminaire Tested: UPW-SA2-070-740-U-T2R

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1208838
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-SA2-070-740-U-T2R
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10133 lumens
Efficiency: N/A
Efficacy: 153.5 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): 66
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

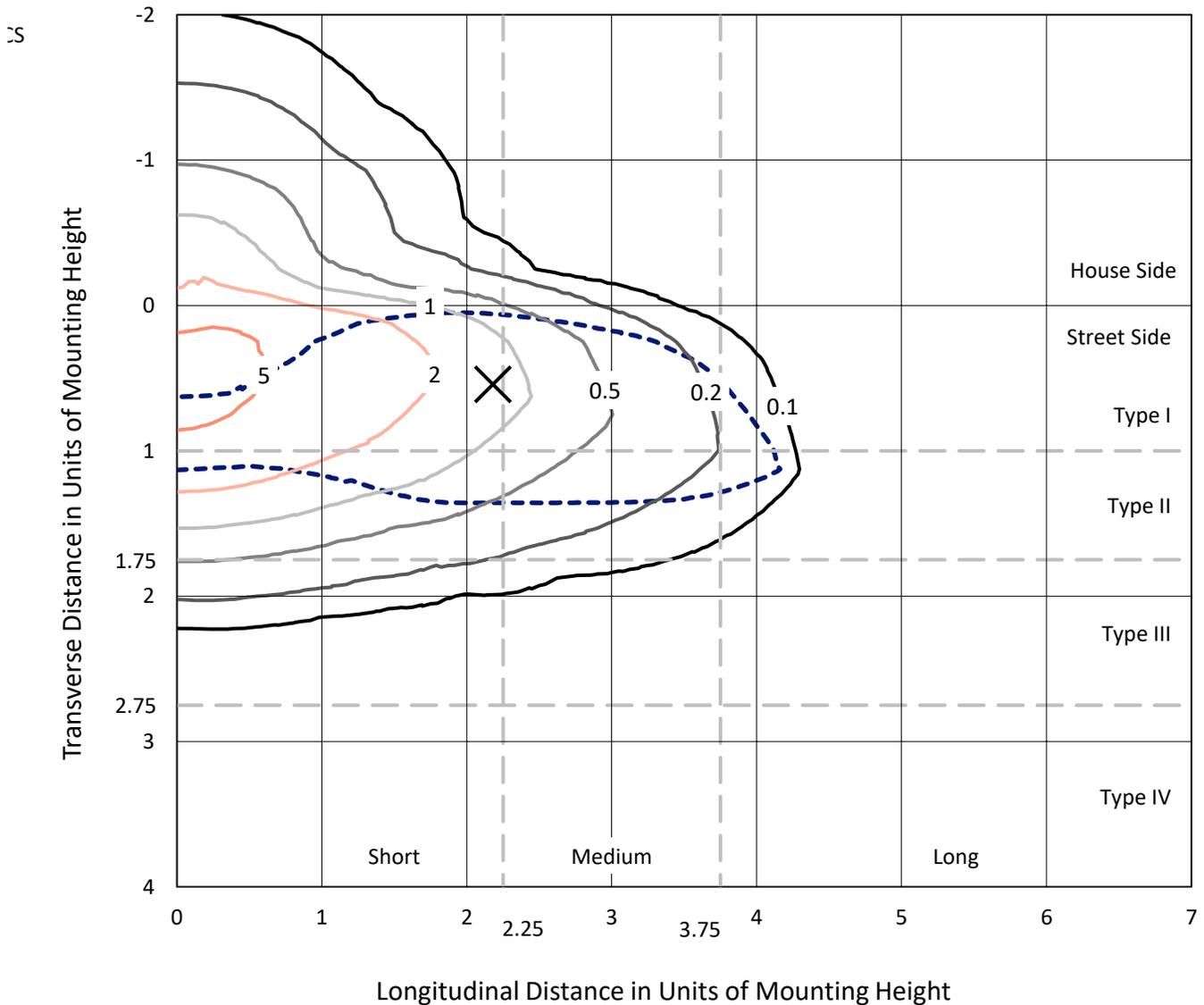


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Iso-Footcandle Lines of Horizontal Illumination

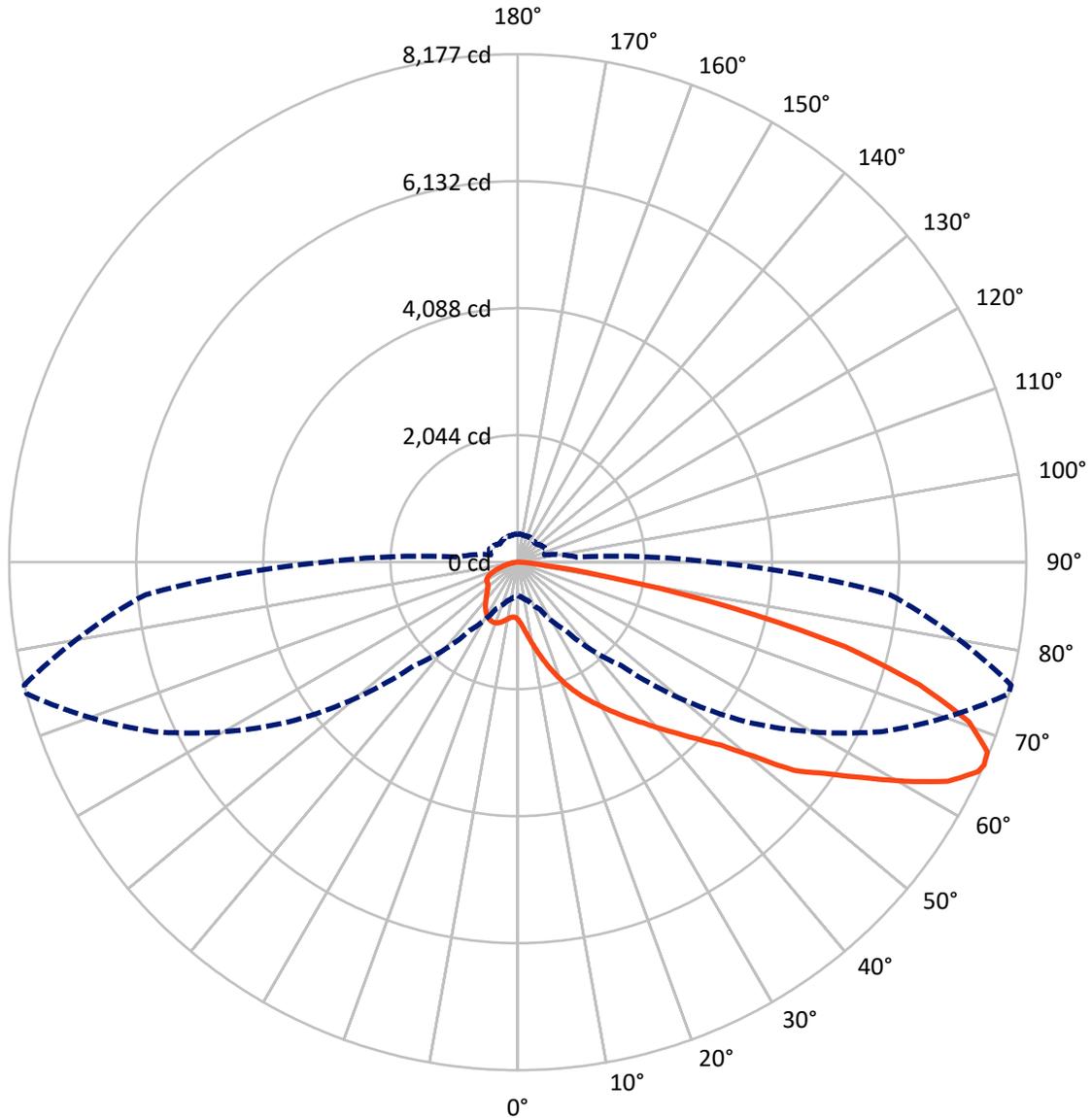
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.1 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 | 1705.0 | 0.0 | 1705.0 |
| | % Fixture | 16.8 | 0.0 | 16.8 |
| Street Side | Lumens | 8428.0 | 0.0 | 8428.0 |
| | % Fixture | 83.2 | 0.0 | 83.2 |
| Total | Lumens | 10133.0 | 0.0 | 10133.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 111.9 | 1.1 |
| 10°-20° | 441.9 | 4.4 |
| 20°-30° | 858.7 | 8.5 |
| 30°-40° | 1401.6 | 13.8 |
| 40°-50° | 1914.9 | 18.9 |
| 50°-60° | 2230.5 | 22.0 |
| 60°-70° | 1999.7 | 19.7 |
| 70°-80° | 1010.6 | 10.0 |
| 80°-90° | 163.2 | 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° | 10133.0 | 100.0 |
| 0°-180° | 10133.0 | 100.0 |



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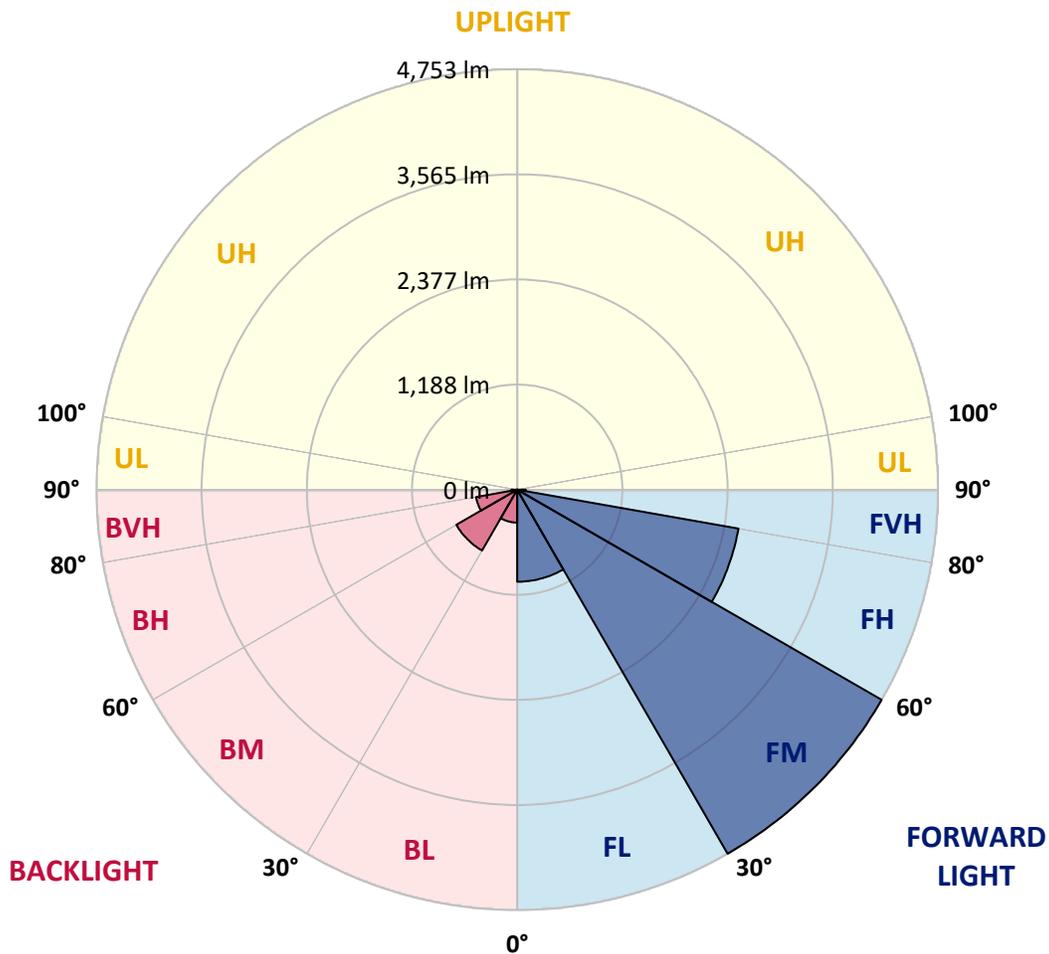
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1040.6 | 10.3 | | | |
| FM (30°-60°) | 4753.1 | 46.9 | | | |
| FH (60°-80°) | 2537.9 | 25.0 | | | G2/5000 |
| FVH (80°-90°) | 96.4 | 1.0 | | | G1/100 |
| BL (0°-30°) | 371.9 | 3.7 | B1/500 | | |
| BM (30°-60°) | 794.0 | 7.8 | B1/1000 | | |
| BH (60°-80°) | 472.4 | 4.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 66.8 | 0.7 | | | G1/100 |
| 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





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 925.4 | 925.4 | 925.4 | 925.4 | 925.4 | 925.4 | 925.4 | 925.4 | 925.4 | 925.4 | 925.4 |
| 2.5° | 1228.4 | 1209.9 | 1208.1 | 1181.0 | 1174.8 | 1122.8 | 1084.6 | 1044.7 | 999.3 | 990.4 | 954.6 |
| 5° | 1577.9 | 1576.2 | 1552.5 | 1508.1 | 1473.4 | 1384.6 | 1296.9 | 1204.0 | 1102.2 | 1085.7 | 1005.2 |
| 7.5° | 1892.4 | 1889.6 | 1871.4 | 1823.6 | 1773.3 | 1664.3 | 1539.1 | 1396.7 | 1231.5 | 1207.1 | 1073.6 |
| 10° | 2131.1 | 2130.1 | 2123.9 | 2088.8 | 2046.1 | 1941.6 | 1803.3 | 1608.9 | 1381.9 | 1348.5 | 1159.3 |
| 12.5° | 2315.5 | 2317.6 | 2321.7 | 2309.3 | 2289.0 | 2199.9 | 2058.2 | 1833.9 | 1542.2 | 1509.1 | 1254.6 |
| 15° | 2440.4 | 2446.6 | 2467.9 | 2485.4 | 2496.1 | 2441.4 | 2304.1 | 2064.0 | 1721.7 | 1682.2 | 1360.2 |
| 17.5° | 2503.3 | 2510.2 | 2547.0 | 2600.0 | 2648.8 | 2643.3 | 2534.3 | 2283.5 | 1894.1 | 1855.9 | 1473.7 |
| 20° | 2557.7 | 2562.8 | 2604.1 | 2667.8 | 2754.1 | 2792.3 | 2731.0 | 2494.7 | 2082.9 | 2037.5 | 1594.1 |
| 22.5° | 2715.2 | 2721.8 | 2734.1 | 2770.3 | 2846.6 | 2916.8 | 2887.2 | 2694.6 | 2256.0 | 2213.7 | 1708.3 |
| 25° | 3019.3 | 3027.2 | 3000.4 | 2969.8 | 2984.2 | 3033.1 | 3038.6 | 2876.9 | 2431.4 | 2383.6 | 1831.1 |
| 27.5° | 3385.7 | 3397.0 | 3351.3 | 3272.5 | 3203.7 | 3184.8 | 3178.3 | 3026.2 | 2599.0 | 2543.6 | 1952.6 |
| 30° | 3744.5 | 3764.1 | 3704.6 | 3602.4 | 3476.2 | 3387.4 | 3321.7 | 3172.4 | 2764.1 | 2711.1 | 2067.1 |
| 32.5° | 4095.0 | 4087.1 | 4000.8 | 3901.0 | 3753.1 | 3642.0 | 3483.0 | 3329.3 | 2949.8 | 2888.9 | 2181.0 |
| 35° | 4335.1 | 4337.9 | 4257.7 | 4139.4 | 3998.4 | 3913.0 | 3699.1 | 3498.5 | 3139.4 | 3083.3 | 2310.3 |
| 37.5° | 4539.5 | 4526.8 | 4435.9 | 4325.5 | 4204.1 | 4167.6 | 3951.9 | 3685.0 | 3344.8 | 3283.5 | 2447.9 |
| 40° | 4607.6 | 4592.8 | 4533.3 | 4453.8 | 4356.5 | 4353.4 | 4230.9 | 3896.2 | 3577.0 | 3516.4 | 2603.1 |
| 42.5° | 4566.3 | 4547.4 | 4523.0 | 4501.3 | 4471.4 | 4485.1 | 4493.0 | 4143.9 | 3832.2 | 3764.4 | 2782.7 |
| 45° | 4413.9 | 4385.4 | 4402.6 | 4449.7 | 4514.7 | 4592.5 | 4729.7 | 4418.0 | 4118.1 | 4061.3 | 2993.5 |
| 47.5° | 4179.7 | 4153.9 | 4207.5 | 4308.3 | 4485.1 | 4681.9 | 4953.7 | 4720.8 | 4459.3 | 4402.9 | 3293.8 |
| 50° | 3850.1 | 3857.7 | 3934.4 | 4117.7 | 4385.0 | 4723.2 | 5229.6 | 5121.5 | 4955.4 | 4902.7 | 3703.5 |
| 52.5° | 3309.3 | 3310.7 | 3526.7 | 3827.7 | 4207.5 | 4701.9 | 5382.6 | 5633.8 | 5632.7 | 5569.1 | 4093.7 |
| 55° | 2807.1 | 2837.7 | 3008.7 | 3408.7 | 3919.9 | 4616.5 | 5489.6 | 5882.8 | 6077.5 | 6002.9 | 4457.3 |
| 57.5° | 2316.5 | 2334.4 | 2496.4 | 2898.2 | 3509.5 | 4389.2 | 5599.4 | 6181.8 | 6590.1 | 6543.0 | 4909.3 |
| 60° | 1758.5 | 1786.1 | 1953.6 | 2324.8 | 2984.6 | 3985.6 | 5609.7 | 6493.8 | 7202.8 | 7155.3 | 5413.9 |
| 62.5° | 1141.4 | 1188.9 | 1345.7 | 1693.5 | 2349.5 | 3405.3 | 5370.3 | 6697.8 | 7783.4 | 7766.6 | 5861.8 |
| 65° | 656.0 | 691.8 | 800.8 | 1069.2 | 1620.9 | 2676.7 | 4800.9 | 6619.3 | 8140.9 | 8131.2 | 6029.4 |
| 66° | 536.0 | 558.3 | 641.9 | 835.6 | 1337.5 | 2350.6 | 4470.0 | 6453.9 | 8176.3 | 8176.6 | 6010.1 |
| 67.5° | 428.6 | 438.6 | 476.1 | 598.2 | 986.9 | 1863.1 | 3878.6 | 6088.9 | 8132.3 | 8144.3 | 5885.9 |
| 70° | 354.7 | 359.8 | 371.5 | 401.1 | 538.7 | 1123.5 | 2753.1 | 5140.5 | 7690.2 | 7699.5 | 5401.2 |
| 72.5° | 318.2 | 321.3 | 325.8 | 329.9 | 380.1 | 627.8 | 1681.5 | 4112.2 | 6742.5 | 6754.5 | 4662.6 |
| 75° | 288.3 | 290.0 | 289.3 | 289.7 | 318.9 | 400.1 | 869.0 | 3070.2 | 5451.8 | 5427.7 | 3571.8 |
| 77.5° | 253.2 | 254.9 | 251.5 | 252.2 | 282.1 | 307.5 | 432.4 | 2149.3 | 3679.1 | 3509.2 | 2012.4 |
| 80° | 214.0 | 215.3 | 214.0 | 216.4 | 245.6 | 232.2 | 251.5 | 1209.2 | 1626.8 | 1538.7 | 715.5 |
| 82.5° | 161.7 | 167.5 | 171.7 | 181.3 | 202.3 | 165.1 | 168.2 | 470.9 | 495.4 | 471.6 | 219.5 |
| 85° | 70.9 | 86.3 | 129.3 | 138.6 | 152.0 | 99.1 | 110.4 | 192.0 | 201.6 | 195.4 | 79.8 |
| 87.5° | 18.6 | 20.3 | 64.0 | 80.5 | 84.3 | 44.7 | 57.4 | 87.4 | 92.2 | 87.4 | 26.5 |
| 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-SA2-070-740-U-T2R

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 925.4 | 925.4 | 925.4 | 925.4 | 925.4 | 925.4 | 925.4 | 925.4 | 925.4 | 925.4 | 925.4 |
| 2.5° | 935.7 | 918.8 | 888.6 | 861.7 | 841.4 | 827.7 | 813.9 | 807.0 | 802.9 | 798.8 | 799.5 |
| 5° | 965.6 | 931.6 | 879.6 | 842.8 | 822.2 | 809.1 | 802.2 | 799.5 | 797.7 | 793.6 | 793.6 |
| 7.5° | 1010.7 | 962.5 | 891.0 | 853.1 | 837.0 | 827.0 | 822.9 | 821.5 | 819.4 | 814.6 | 815.3 |
| 10° | 1067.4 | 1000.0 | 914.7 | 877.9 | 863.1 | 852.1 | 846.3 | 844.2 | 840.4 | 834.9 | 835.6 |
| 12.5° | 1134.2 | 1046.5 | 946.0 | 907.5 | 889.6 | 874.8 | 865.2 | 859.3 | 852.8 | 845.6 | 845.9 |
| 15° | 1207.1 | 1097.0 | 979.7 | 934.0 | 909.5 | 888.9 | 873.4 | 863.5 | 853.1 | 844.2 | 843.8 |
| 17.5° | 1281.1 | 1145.9 | 1005.5 | 948.4 | 915.4 | 888.2 | 867.2 | 851.8 | 839.0 | 828.0 | 827.0 |
| 20° | 1360.9 | 1189.9 | 1020.0 | 947.0 | 904.4 | 872.1 | 844.2 | 824.9 | 810.8 | 799.8 | 798.1 |
| 22.5° | 1442.1 | 1231.2 | 1022.4 | 932.9 | 880.0 | 840.4 | 811.2 | 789.8 | 775.4 | 764.0 | 759.9 |
| 25° | 1516.4 | 1263.2 | 1012.4 | 905.8 | 845.9 | 803.2 | 774.7 | 753.0 | 741.3 | 727.9 | 723.8 |
| 27.5° | 1584.1 | 1285.5 | 992.5 | 871.0 | 807.7 | 765.8 | 738.9 | 720.3 | 707.6 | 697.3 | 693.9 |
| 30° | 1645.0 | 1297.6 | 959.8 | 829.7 | 768.5 | 730.3 | 707.6 | 694.9 | 683.9 | 670.8 | 668.4 |
| 32.5° | 1702.8 | 1297.6 | 917.8 | 784.7 | 729.6 | 699.0 | 685.6 | 677.7 | 665.3 | 652.6 | 649.1 |
| 35° | 1760.6 | 1289.7 | 868.3 | 737.5 | 693.9 | 676.7 | 676.0 | 666.7 | 647.8 | 630.6 | 626.1 |
| 37.5° | 1821.5 | 1273.5 | 812.5 | 693.5 | 664.6 | 666.7 | 672.5 | 651.9 | 625.1 | 600.6 | 594.1 |
| 40° | 1890.3 | 1251.1 | 754.7 | 655.3 | 640.2 | 662.2 | 663.2 | 630.6 | 578.3 | 555.9 | 550.1 |
| 42.5° | 1971.1 | 1228.8 | 701.1 | 621.6 | 620.9 | 648.8 | 645.7 | 584.5 | 553.2 | 541.8 | 538.7 |
| 45° | 2077.4 | 1216.1 | 650.2 | 589.6 | 605.8 | 627.1 | 615.8 | 559.0 | 545.9 | 539.4 | 536.6 |
| 47.5° | 2245.0 | 1222.6 | 603.4 | 564.2 | 590.7 | 605.4 | 560.0 | 548.7 | 539.4 | 531.5 | 528.7 |
| 50° | 2454.8 | 1218.8 | 565.5 | 546.6 | 573.5 | 582.7 | 534.9 | 535.3 | 530.5 | 521.5 | 517.4 |
| 52.5° | 2612.7 | 1189.2 | 541.1 | 536.6 | 558.3 | 542.5 | 519.1 | 522.2 | 519.8 | 506.7 | 502.2 |
| 55° | 2765.1 | 1163.8 | 528.7 | 532.9 | 547.3 | 492.3 | 500.5 | 508.1 | 505.7 | 493.0 | 490.9 |
| 57.5° | 2954.7 | 1159.0 | 521.2 | 533.9 | 538.0 | 467.2 | 482.6 | 492.6 | 490.9 | 485.4 | 484.4 |
| 60° | 3186.9 | 1160.3 | 514.3 | 535.6 | 527.7 | 448.6 | 465.8 | 478.5 | 479.5 | 478.5 | 477.8 |
| 62.5° | 3314.5 | 1122.8 | 497.1 | 530.8 | 509.5 | 432.4 | 448.2 | 466.8 | 467.2 | 469.2 | 468.9 |
| 65° | 3206.1 | 1010.7 | 465.1 | 513.9 | 478.9 | 419.0 | 433.1 | 453.4 | 448.2 | 457.5 | 457.5 |
| 66° | 3100.9 | 946.0 | 449.3 | 502.9 | 465.8 | 413.8 | 428.3 | 446.5 | 440.0 | 452.7 | 452.7 |
| 67.5° | 2885.9 | 837.0 | 420.7 | 479.5 | 447.2 | 406.6 | 422.8 | 435.2 | 426.2 | 445.1 | 443.8 |
| 70° | 2493.0 | 647.4 | 363.3 | 426.6 | 416.6 | 395.9 | 415.2 | 412.5 | 399.4 | 428.3 | 422.8 |
| 72.5° | 2101.9 | 491.9 | 291.7 | 357.1 | 370.1 | 382.5 | 404.5 | 383.6 | 367.1 | 387.3 | 375.3 |
| 75° | 1630.9 | 369.8 | 230.5 | 277.6 | 312.7 | 361.5 | 391.8 | 350.2 | 326.5 | 324.4 | 317.9 |
| 77.5° | 881.7 | 253.9 | 182.7 | 211.9 | 248.4 | 335.4 | 383.2 | 314.4 | 278.6 | 270.4 | 265.2 |
| 80° | 349.2 | 165.1 | 132.8 | 160.6 | 173.7 | 297.6 | 362.6 | 272.8 | 229.8 | 221.5 | 213.6 |
| 82.5° | 144.1 | 97.7 | 85.7 | 107.7 | 113.2 | 254.6 | 325.4 | 223.6 | 177.5 | 245.6 | 260.8 |
| 85° | 61.9 | 53.7 | 50.9 | 55.7 | 64.0 | 178.5 | 259.0 | 170.6 | 191.6 | 171.0 | 135.9 |
| 87.5° | 18.6 | 22.7 | 21.7 | 21.3 | 23.4 | 42.7 | 137.9 | 94.9 | 140.7 | 53.3 | 39.9 |
| 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)