

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: P1208060

Luminaire Tested: UPW-SA1-040-730-U-T4FT-HSS

Issue Date: 11/4/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1208060  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 2/20/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: UPW-SA1-040-730-U-T4FT-HSS  
Description: UNDERPASS WALL MOUNT LUMINAIRE  
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD THROW OPT  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3947 lumens  
Efficiency: N/A  
Efficacy: 89.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

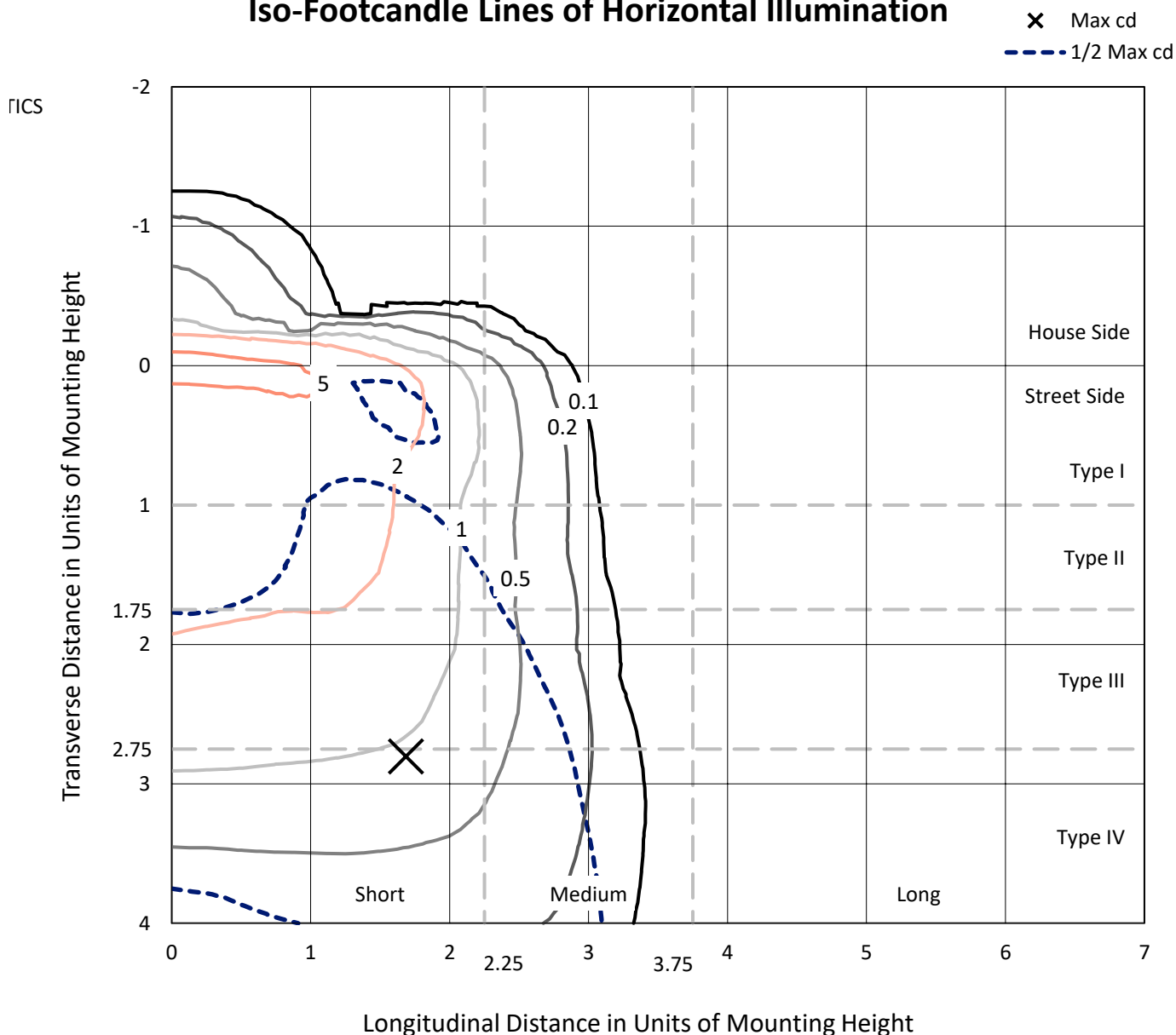
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P1208060

CATALOG NUMBER: UPW-SA1-040-730-U-T4FT-HSS

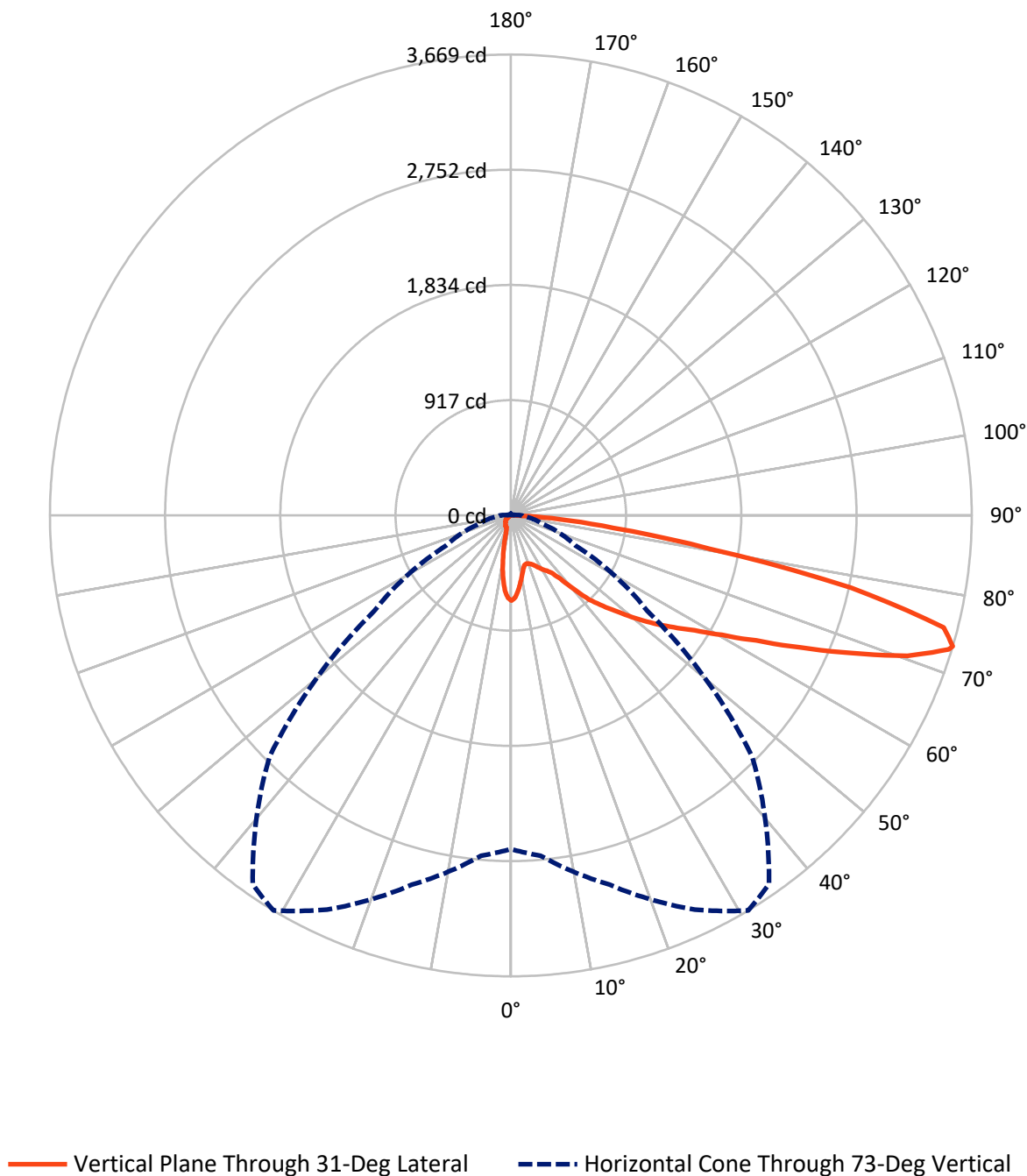
## Iso-Footcandle Lines of Horizontal Illumination



REPORT NUMBER: P1208060

CATALOG NUMBER: UPW-SA1-040-730-U-T4FT-HSS

## Luminous Intensity Polar Plot



REPORT NUMBER: P1208060

CATALOG NUMBER: UPW-SA1-040-730-U-T4FT-HSS

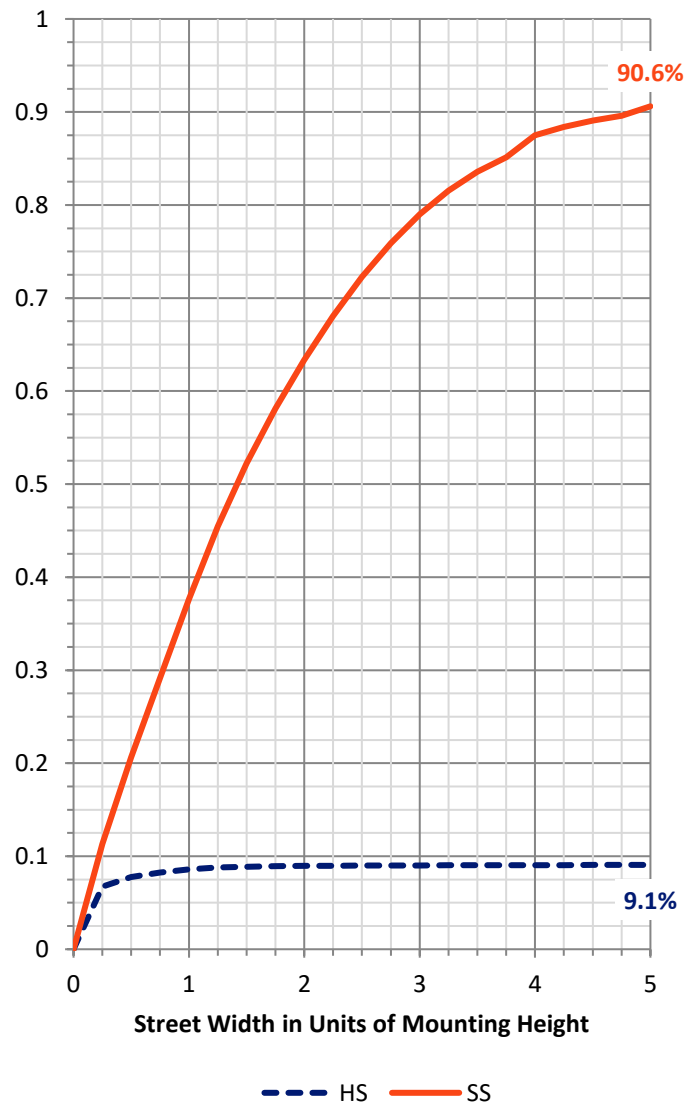
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 359.8    | 0.0    | 359.8  |
|                    | % Fixture | 9.1      | 0.0    | 9.1    |
| <b>Street Side</b> | Lumens    | 3587.2   | 0.0    | 3587.2 |
|                    | % Fixture | 90.9     | 0.0    | 90.9   |
| <b>Total</b>       | Lumens    | 3947.0   | 0.0    | 3947.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 56.3   | 1.4       |
| 10°-20°   | 122.3  | 3.1       |
| 20°-30°   | 183.2  | 4.6       |
| 30°-40°   | 291.4  | 7.4       |
| 40°-50°   | 520.4  | 13.2      |
| 50°-60°   | 807.5  | 20.5      |
| 60°-70°   | 1073.5 | 27.2      |
| 70°-80°   | 807.5  | 20.5      |
| 80°-90°   | 84.8   | 2.1       |
| 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°    | 3947.0 | 100.0     |
| 0°-180°   | 3947.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P1208060

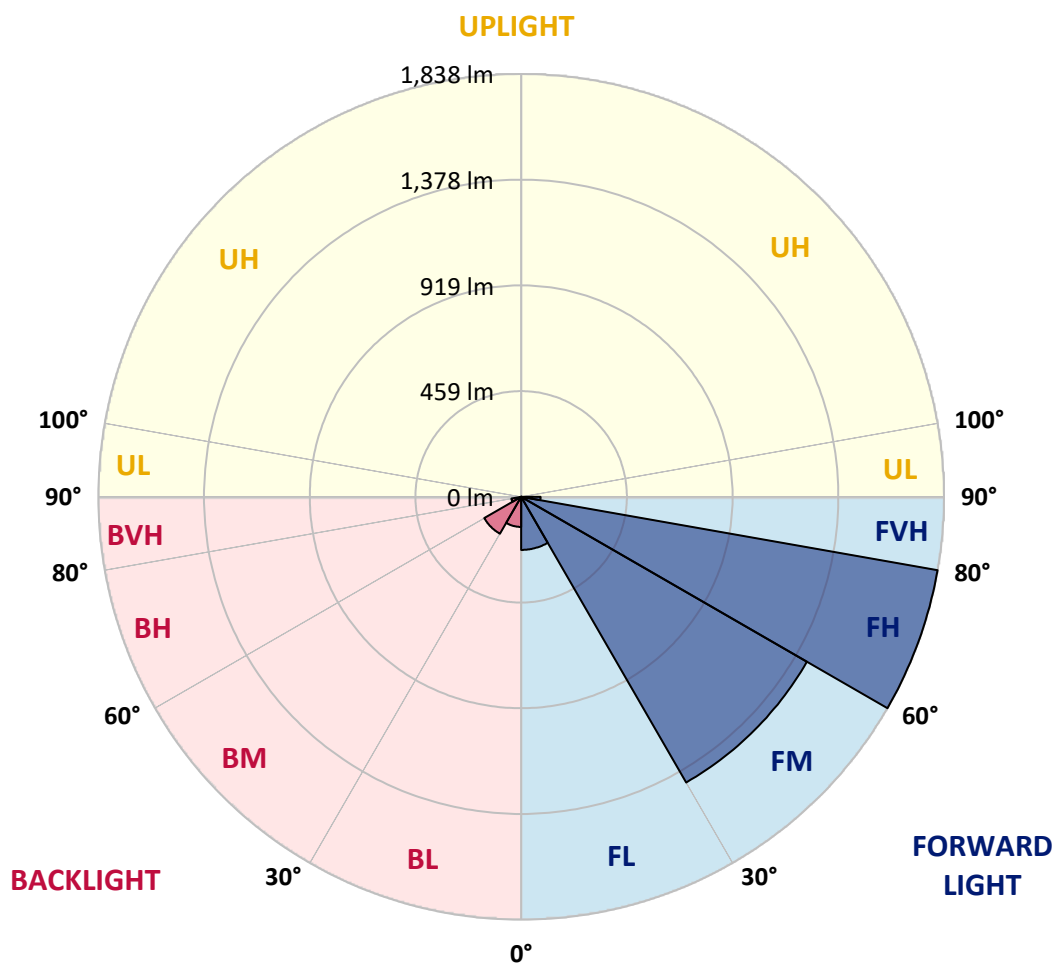
CATALOG NUMBER: UPW-SA1-040-730-U-T4FT-HSS

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 230.9  | 5.9       |                         |      |         |
| FM   | (30°-60°)   | 1434.2 | 36.3      |                         |      |         |
| FH   | (60°-80°)   | 1838.0 | 46.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 84.1   | 2.1       |                         |      | G1/100  |
| BL   | (0°-30°)    | 130.8  | 3.3       | B1/500                  |      |         |
| BM   | (30°-60°)   | 185.2  | 4.7       | B0/220                  |      |         |
| BH   | (60°-80°)   | 43.1   | 1.1       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 0.7    | 0.0       |                         |      | 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 IV Short



REPORT NUMBER: P1208060

CATALOG NUMBER: UPW-SA1-040-730-U-T4FT-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 31°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 679.1  | 679.1  | 679.1  | 679.1  | 679.1  | 679.1  | 679.1  | 679.1  | 679.1  | 679.1  | 679.1  |
| 2.5°  | 643.6  | 646.3  | 649.2  | 649.7  | 654.6  | 654.8  | 661.7  | 666.9  | 672.1  | 677.2  | 678.9  |
| 5°    | 577.5  | 581.9  | 587.2  | 592.4  | 602.6  | 606.7  | 623.7  | 641.0  | 657.7  | 673.5  | 681.2  |
| 7.5°  | 507.0  | 512.0  | 519.4  | 532.3  | 543.7  | 551.6  | 578.5  | 609.4  | 640.3  | 669.4  | 686.2  |
| 10°   | 442.7  | 447.3  | 455.0  | 468.8  | 486.3  | 497.1  | 533.3  | 576.1  | 621.5  | 665.8  | 693.8  |
| 12.5° | 401.7  | 404.2  | 408.5  | 423.2  | 439.0  | 451.2  | 493.7  | 546.8  | 606.1  | 665.6  | 705.9  |
| 15°   | 394.2  | 395.0  | 391.5  | 398.1  | 410.4  | 422.2  | 465.3  | 523.0  | 594.3  | 668.7  | 721.8  |
| 17.5° | 406.2  | 405.8  | 394.2  | 393.4  | 403.3  | 412.9  | 451.4  | 506.6  | 586.0  | 675.8  | 742.2  |
| 20°   | 424.3  | 423.0  | 402.9  | 399.2  | 409.7  | 418.7  | 450.4  | 500.4  | 582.9  | 687.8  | 767.2  |
| 22.5° | 448.5  | 446.2  | 414.7  | 410.8  | 422.0  | 431.5  | 462.4  | 506.4  | 585.6  | 703.8  | 796.1  |
| 25°   | 478.4  | 474.9  | 435.0  | 430.7  | 442.1  | 451.6  | 483.8  | 523.6  | 593.7  | 723.3  | 832.8  |
| 27.5° | 512.2  | 507.2  | 467.4  | 456.4  | 469.3  | 479.2  | 512.4  | 549.9  | 606.5  | 744.0  | 877.8  |
| 30°   | 544.1  | 537.5  | 501.6  | 483.4  | 499.3  | 510.3  | 543.3  | 581.2  | 626.9  | 775.9  | 939.4  |
| 32.5° | 576.1  | 568.8  | 532.1  | 510.5  | 524.8  | 536.7  | 575.2  | 624.2  | 665.4  | 824.5  | 1021.3 |
| 35°   | 649.9  | 642.2  | 597.2  | 561.5  | 561.3  | 568.0  | 619.8  | 683.1  | 716.2  | 892.3  | 1119.1 |
| 37.5° | 774.1  | 769.7  | 726.8  | 659.0  | 640.8  | 633.3  | 680.6  | 753.4  | 789.2  | 985.6  | 1229.4 |
| 40°   | 910.1  | 906.2  | 858.1  | 796.7  | 769.1  | 750.6  | 767.9  | 851.4  | 892.3  | 1099.6 | 1342.0 |
| 42.5° | 1063.6 | 1045.3 | 959.5  | 941.2  | 916.5  | 902.4  | 886.7  | 972.1  | 1019.0 | 1223.6 | 1453.6 |
| 45°   | 1203.1 | 1172.2 | 1060.9 | 1033.1 | 1027.5 | 1031.0 | 1039.7 | 1134.3 | 1161.6 | 1370.9 | 1564.8 |
| 47.5° | 1286.1 | 1261.8 | 1176.4 | 1149.8 | 1148.2 | 1171.2 | 1236.9 | 1317.6 | 1303.5 | 1499.4 | 1662.8 |
| 50°   | 1365.1 | 1343.1 | 1272.2 | 1278.8 | 1285.9 | 1317.2 | 1460.7 | 1506.1 | 1433.1 | 1615.8 | 1752.6 |
| 52.5° | 1429.1 | 1395.5 | 1358.4 | 1395.3 | 1430.4 | 1480.8 | 1691.7 | 1675.3 | 1525.1 | 1708.5 | 1829.4 |
| 55°   | 1466.0 | 1450.7 | 1468.7 | 1505.7 | 1571.8 | 1653.7 | 1909.8 | 1816.1 | 1592.3 | 1793.1 | 1880.6 |
| 57.5° | 1601.2 | 1571.2 | 1606.9 | 1639.0 | 1725.1 | 1839.7 | 2096.6 | 1921.0 | 1640.7 | 1845.5 | 1892.4 |
| 60°   | 1764.7 | 1740.6 | 1761.7 | 1815.0 | 1931.2 | 2065.9 | 2271.2 | 2006.6 | 1666.0 | 1879.1 | 1861.9 |
| 62.5° | 2025.1 | 1993.2 | 1980.1 | 2039.8 | 2193.9 | 2340.9 | 2403.7 | 2065.9 | 1660.4 | 1864.2 | 1757.2 |
| 65°   | 2373.9 | 2340.9 | 2282.2 | 2336.3 | 2532.3 | 2636.0 | 2551.8 | 2078.4 | 1621.8 | 1743.9 | 1492.6 |
| 67.5° | 2731.2 | 2707.3 | 2657.1 | 2748.2 | 2925.1 | 2958.6 | 2708.4 | 2047.9 | 1497.4 | 1414.0 | 1054.6 |
| 70°   | 2967.3 | 2957.0 | 2989.7 | 3191.3 | 3349.1 | 3339.4 | 2852.1 | 1883.9 | 1167.2 | 869.5  | 521.7  |
| 72.5° | 2797.1 | 2846.1 | 3087.2 | 3452.8 | 3645.6 | 3566.8 | 2778.4 | 1446.6 | 667.1  | 334.5  | 150.8  |
| 73°   | 2656.1 | 2718.9 | 3043.3 | 3462.7 | 3668.9 | 3582.6 | 2716.4 | 1327.9 | 568.6  | 264.0  | 114.3  |
| 75°   | 1847.8 | 1924.9 | 2519.5 | 3224.9 | 3559.6 | 3413.4 | 2264.2 | 812.7  | 263.4  | 117.0  | 46.2   |
| 77.5° | 897.1  | 954.1  | 1387.3 | 2330.1 | 2768.3 | 2666.9 | 1409.6 | 302.8  | 119.0  | 73.2   | 21.2   |
| 80°   | 334.9  | 372.4  | 602.2  | 1185.9 | 1599.8 | 1641.7 | 620.0  | 114.5  | 79.2   | 58.9   | 10.8   |
| 82.5° | 87.7   | 97.7   | 222.1  | 528.8  | 819.9  | 858.1  | 195.5  | 57.7   | 57.9   | 48.5   | 6.6    |
| 85°   | 28.0   | 32.1   | 69.3   | 237.4  | 386.3  | 339.2  | 51.0   | 28.0   | 42.1   | 36.1   | 3.7    |
| 87.5° | 3.5    | 4.4    | 22.0   | 55.8   | 85.2   | 47.3   | 7.9    | 8.3    | 18.0   | 20.1   | 2.1    |
| 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: P1208060

CATALOG NUMBER: UPW-SA1-040-730-U-T4FT-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 679.1  | 679.1 | 679.1 | 679.1 | 679.1 | 679.1 | 679.1 | 679.1 | 679.1 | 679.1 | 679.1 |
| 2.5°  | 680.6  | 679.7 | 679.9 | 674.8 | 671.6 | 665.0 | 658.2 | 655.1 | 651.9 | 650.5 | 651.9 |
| 5°    | 684.1  | 682.4 | 677.4 | 661.9 | 645.5 | 624.2 | 604.3 | 589.3 | 570.4 | 565.1 | 570.5 |
| 7.5°  | 689.5  | 686.0 | 671.4 | 639.9 | 603.4 | 562.8 | 517.2 | 484.0 | 456.8 | 439.2 | 445.6 |
| 10°   | 697.4  | 690.9 | 661.3 | 607.8 | 542.5 | 470.7 | 406.0 | 355.6 | 319.8 | 305.2 | 304.6 |
| 12.5° | 710.8  | 698.4 | 649.0 | 566.1 | 468.2 | 372.4 | 287.6 | 232.9 | 204.0 | 185.2 | 184.8 |
| 15°   | 725.4  | 707.3 | 633.3 | 516.1 | 381.6 | 266.7 | 185.2 | 143.7 | 125.0 | 119.0 | 118.2 |
| 17.5° | 743.4  | 717.5 | 613.0 | 454.5 | 291.1 | 176.7 | 120.9 | 108.9 | 108.2 | 107.6 | 107.6 |
| 20°   | 766.0  | 729.7 | 587.0 | 384.0 | 206.5 | 118.0 | 102.8 | 103.5 | 103.9 | 103.1 | 103.3 |
| 22.5° | 792.3  | 742.1 | 555.9 | 308.3 | 139.6 | 98.7  | 98.3  | 99.3  | 99.7  | 99.3  | 99.5  |
| 25°   | 822.8  | 756.3 | 518.0 | 228.9 | 100.8 | 93.7  | 94.6  | 96.0  | 97.0  | 97.0  | 97.0  |
| 27.5° | 860.6  | 773.7 | 472.4 | 159.7 | 87.1  | 88.5  | 91.2  | 93.7  | 95.0  | 95.4  | 95.4  |
| 30°   | 909.9  | 795.4 | 417.8 | 109.5 | 79.2  | 81.5  | 86.5  | 91.4  | 93.9  | 94.3  | 94.4  |
| 32.5° | 972.1  | 819.7 | 354.4 | 80.9  | 72.4  | 74.2  | 79.6  | 87.7  | 92.5  | 93.3  | 93.3  |
| 35°   | 1043.4 | 847.9 | 286.2 | 70.5  | 67.6  | 68.2  | 72.4  | 81.7  | 90.2  | 92.3  | 92.5  |
| 37.5° | 1121.4 | 875.7 | 217.7 | 65.9  | 63.5  | 63.5  | 66.6  | 74.6  | 84.6  | 91.2  | 91.9  |
| 40°   | 1194.2 | 892.5 | 152.6 | 62.2  | 59.9  | 59.9  | 62.6  | 68.4  | 77.8  | 87.7  | 89.8  |
| 42.5° | 1261.4 | 898.3 | 106.2 | 58.7  | 56.4  | 57.0  | 59.3  | 63.9  | 71.1  | 80.9  | 82.9  |
| 45°   | 1330.6 | 897.3 | 77.5  | 54.7  | 52.9  | 54.7  | 56.4  | 59.9  | 65.1  | 70.7  | 71.1  |
| 47.5° | 1382.7 | 889.2 | 61.4  | 50.8  | 49.6  | 52.0  | 53.5  | 55.8  | 58.7  | 58.3  | 58.3  |
| 50°   | 1431.6 | 869.5 | 49.4  | 45.6  | 46.4  | 49.1  | 49.8  | 50.6  | 50.8  | 47.1  | 46.7  |
| 52.5° | 1468.7 | 838.8 | 39.6  | 40.0  | 43.1  | 45.8  | 45.0  | 43.8  | 41.9  | 37.5  | 36.7  |
| 55°   | 1481.0 | 779.7 | 31.1  | 33.0  | 38.2  | 41.7  | 38.8  | 36.3  | 32.6  | 29.0  | 28.2  |
| 57.5° | 1458.6 | 703.4 | 25.3  | 25.7  | 32.3  | 35.2  | 31.9  | 29.0  | 24.9  | 21.8  | 21.2  |
| 60°   | 1411.1 | 618.6 | 20.9  | 19.3  | 24.9  | 27.4  | 25.3  | 22.4  | 18.7  | 16.4  | 16.2  |
| 62.5° | 1316.8 | 528.2 | 17.2  | 15.1  | 18.9  | 21.1  | 19.7  | 17.6  | 14.5  | 12.9  | 12.7  |
| 65°   | 1118.7 | 422.6 | 13.9  | 12.2  | 14.7  | 16.4  | 15.3  | 13.7  | 11.4  | 10.2  | 10.0  |
| 67.5° | 780.9  | 285.7 | 11.4  | 10.0  | 11.6  | 12.9  | 12.0  | 11.2  | 9.1   | 8.9   | 9.1   |
| 70°   | 376.6  | 137.7 | 9.5   | 8.1   | 9.1   | 10.0  | 9.7   | 9.1   | 8.7   | 10.0  | 11.6  |
| 72.5° | 108.0  | 46.2  | 7.5   | 6.8   | 7.3   | 7.9   | 8.3   | 8.1   | 9.5   | 12.2  | 14.1  |
| 73°   | 83.1   | 37.3  | 7.1   | 6.4   | 7.0   | 7.7   | 8.1   | 7.9   | 9.7   | 12.4  | 14.1  |
| 75°   | 35.5   | 18.0  | 5.4   | 5.2   | 5.8   | 6.8   | 7.1   | 7.1   | 9.7   | 12.6  | 13.5  |
| 77.5° | 16.0   | 9.7   | 3.5   | 4.1   | 5.0   | 5.4   | 6.0   | 6.0   | 7.7   | 9.7   | 9.7   |
| 80°   | 9.1    | 5.2   | 2.7   | 3.1   | 3.7   | 3.7   | 3.7   | 3.3   | 3.5   | 3.9   | 4.2   |
| 82.5° | 5.8    | 3.5   | 2.1   | 2.5   | 2.3   | 1.9   | 1.5   | 1.5   | 1.4   | 1.5   | 1.9   |
| 85°   | 3.3    | 1.9   | 1.9   | 1.5   | 1.0   | 0.8   | 1.0   | 0.8   | 0.2   | 0.0   | 0.2   |
| 87.5° | 1.9    | 1.2   | 0.6   | 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)