

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: P1208988

Luminaire Tested: UPW-SA2-090-727-U-SL3-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1208988
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2308-136-4)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/19/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-090-727-U-SL3-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6898 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

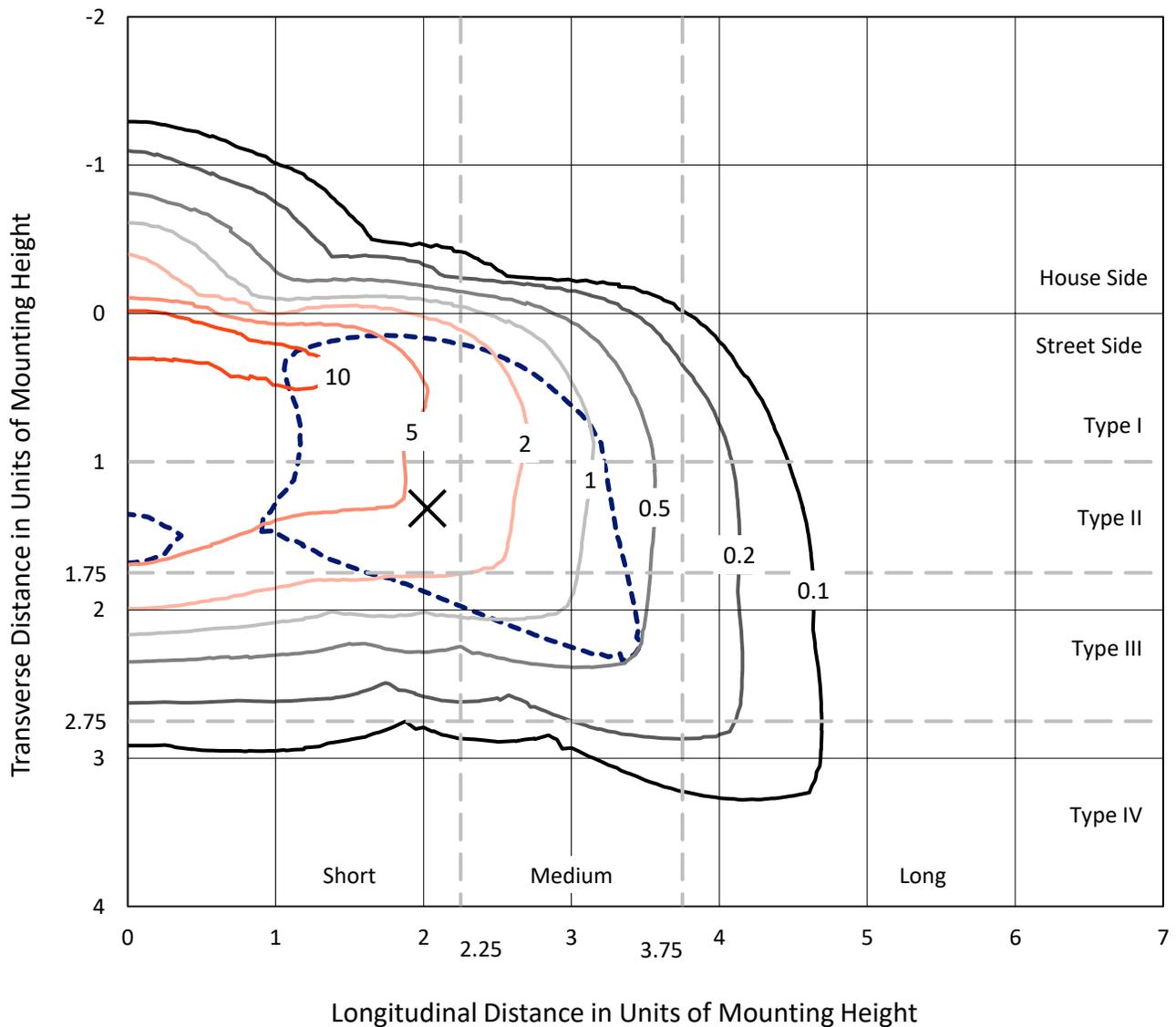
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

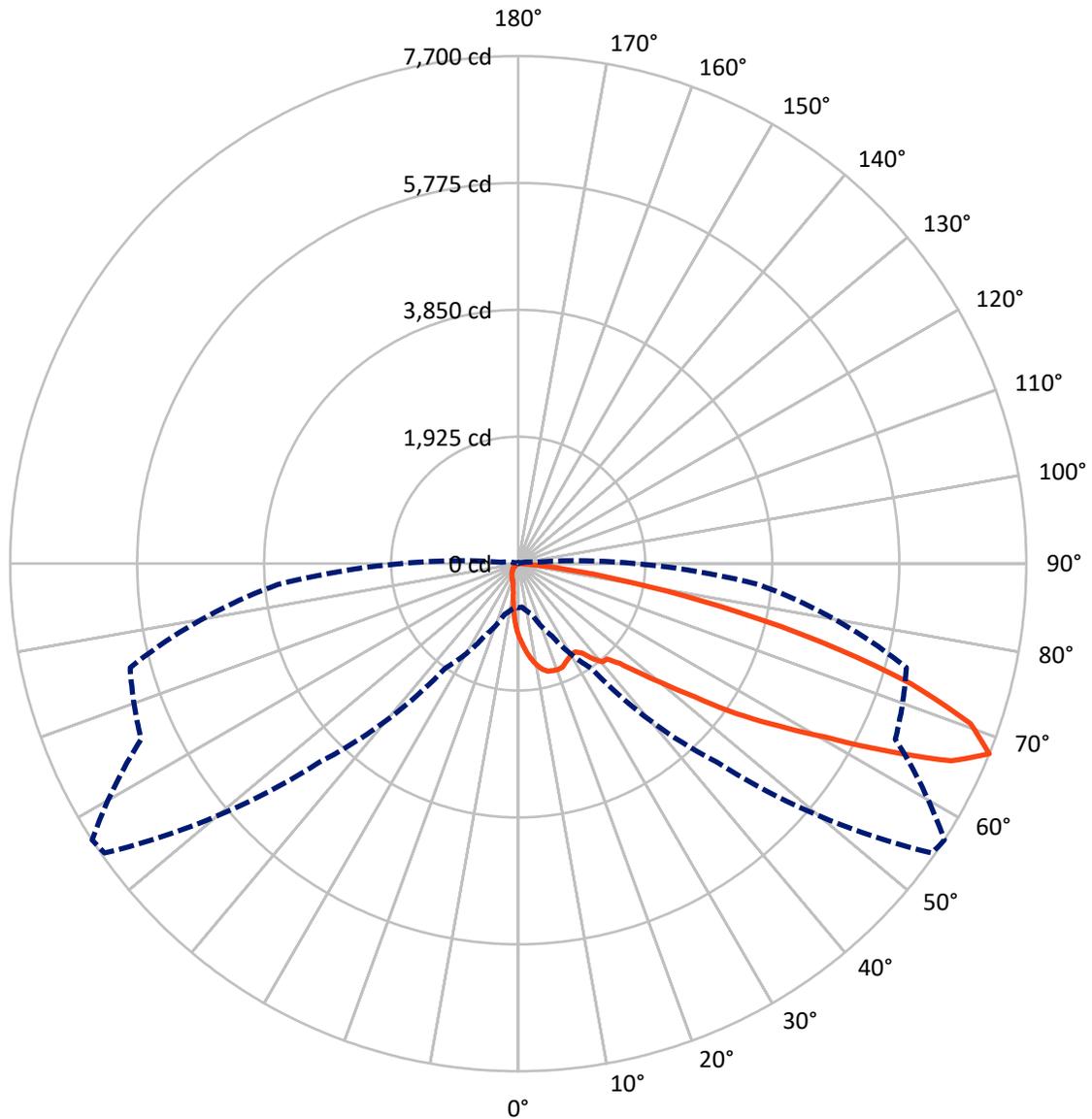
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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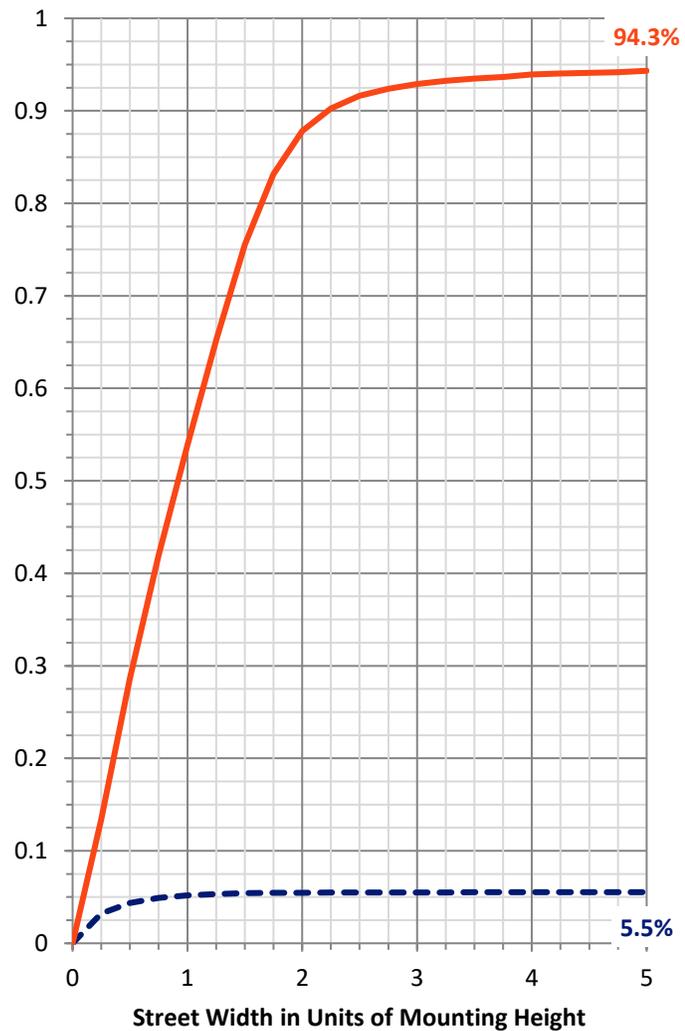
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 383.9 | 0.0 | 383.9 |
| | % Fixture | 5.6 | 0.0 | 5.6 |
| Street Side | Lumens | 6514.1 | 0.0 | 6514.1 |
| | % Fixture | 94.4 | 0.0 | 94.4 |
| Total | Lumens | 6898.0 | 0.0 | 6898.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 98.6 | 1.4 |
| 10°-20° | 256.6 | 3.7 |
| 20°-30° | 375.5 | 5.4 |
| 30°-40° | 564.7 | 8.2 |
| 40°-50° | 921.3 | 13.4 |
| 50°-60° | 1743.7 | 25.3 |
| 60°-70° | 1992.7 | 28.9 |
| 70°-80° | 869.8 | 12.6 |
| 80°-90° | 75.1 | 1.1 |
| 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° | 6898.0 | 100.0 |
| 0°-180° | 6898.0 | 100.0 |



--- HS — SS

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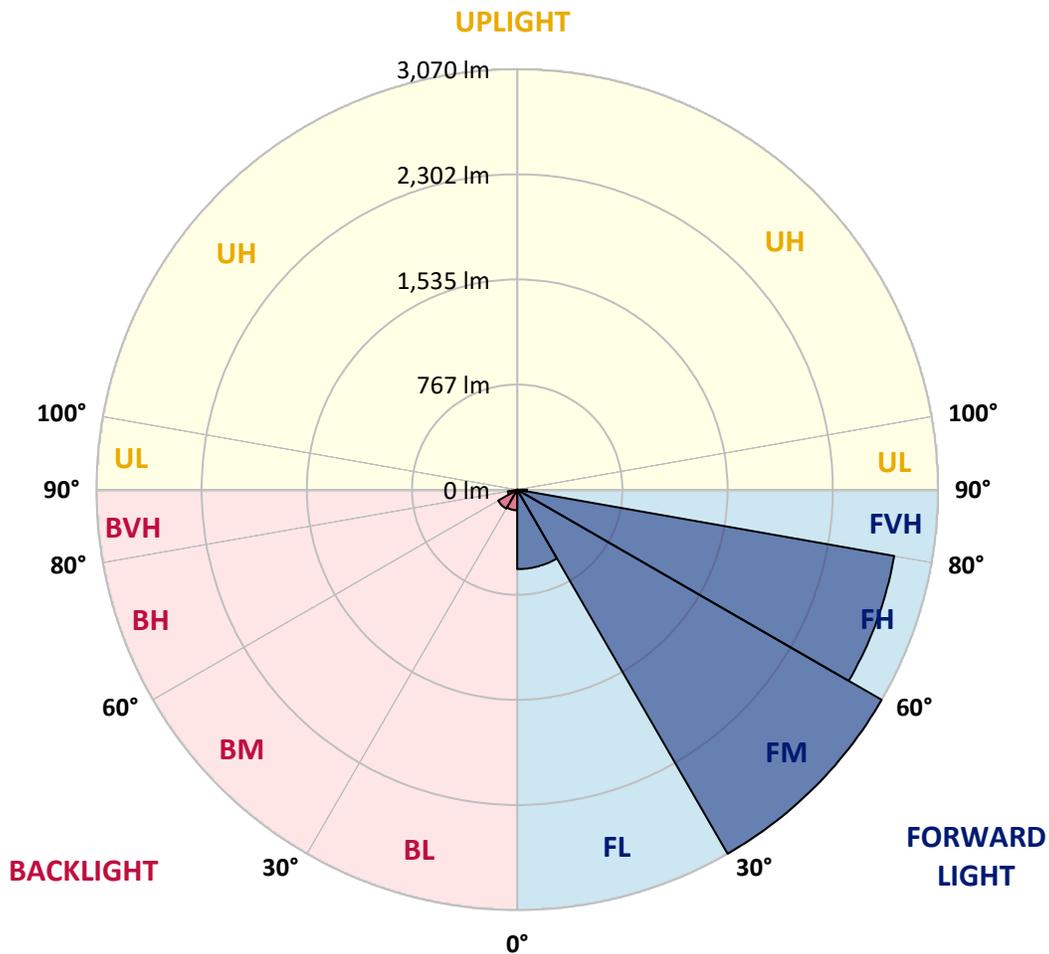
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 580.1 | 8.4 | | | |
| FM | (30°-60°) | 3069.8 | 44.5 | | | |
| FH | (60°-80°) | 2792.9 | 40.5 | | | G2/5000 |
| FVH | (80°-90°) | 71.4 | 1.0 | | | G1/100 |
| BL | (0°-30°) | 150.7 | 2.2 | B1/500 | | |
| BM | (30°-60°) | 159.9 | 2.3 | B0/220 | | |
| BH | (60°-80°) | 69.6 | 1.0 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 3.7 | 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 III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1097.4 | 1097.4 | 1097.4 | 1097.4 | 1097.4 | 1097.4 | 1097.4 | 1097.4 | 1097.4 | 1097.4 | 1097.4 |
| 2.5° | 1295.5 | 1306.2 | 1310.5 | 1292.3 | 1275.2 | 1262.3 | 1236.6 | 1220.6 | 1195.9 | 1166.0 | 1124.2 |
| 5° | 1486.1 | 1485.0 | 1474.3 | 1460.4 | 1452.9 | 1412.2 | 1369.4 | 1352.2 | 1312.6 | 1237.7 | 1156.3 |
| 7.5° | 1557.8 | 1564.2 | 1571.7 | 1563.2 | 1550.3 | 1528.9 | 1478.6 | 1465.7 | 1407.9 | 1310.5 | 1195.9 |
| 10° | 1524.6 | 1535.3 | 1548.2 | 1570.7 | 1613.5 | 1621.0 | 1582.4 | 1568.5 | 1498.9 | 1391.9 | 1229.1 |
| 12.5° | 1371.5 | 1387.6 | 1409.0 | 1481.8 | 1581.4 | 1643.5 | 1652.0 | 1647.8 | 1588.9 | 1464.7 | 1252.7 |
| 15° | 1168.1 | 1151.0 | 1206.6 | 1307.3 | 1471.1 | 1613.5 | 1690.6 | 1693.8 | 1663.8 | 1533.2 | 1278.4 |
| 17.5° | 1015.0 | 1031.0 | 1055.7 | 1131.7 | 1301.9 | 1506.4 | 1685.2 | 1705.6 | 1719.5 | 1606.0 | 1308.4 |
| 20° | 989.3 | 990.4 | 1001.1 | 1042.8 | 1131.7 | 1377.9 | 1667.0 | 1715.2 | 1788.0 | 1677.7 | 1321.2 |
| 22.5° | 1013.9 | 1007.5 | 1012.8 | 1021.4 | 1077.1 | 1247.3 | 1628.5 | 1706.6 | 1828.7 | 1766.6 | 1348.0 |
| 25° | 1046.0 | 1053.5 | 1043.9 | 1033.2 | 1065.3 | 1188.4 | 1583.5 | 1663.8 | 1889.7 | 1845.8 | 1359.7 |
| 27.5° | 1136.0 | 1140.3 | 1114.6 | 1076.0 | 1087.8 | 1161.7 | 1513.9 | 1629.5 | 1981.8 | 1934.7 | 1379.0 |
| 30° | 1282.7 | 1278.4 | 1224.8 | 1161.7 | 1134.9 | 1178.8 | 1470.0 | 1592.1 | 2031.0 | 2003.2 | 1369.4 |
| 32.5° | 1391.9 | 1383.3 | 1330.8 | 1265.5 | 1218.4 | 1244.1 | 1470.0 | 1596.4 | 2130.6 | 2123.1 | 1387.6 |
| 35° | 1490.4 | 1482.9 | 1417.6 | 1365.1 | 1324.4 | 1348.0 | 1552.5 | 1666.0 | 2273.0 | 2345.8 | 1451.8 |
| 37.5° | 1597.4 | 1577.1 | 1525.7 | 1434.7 | 1421.8 | 1512.8 | 1730.2 | 1824.4 | 2498.9 | 2552.5 | 1454.0 |
| 40° | 1766.6 | 1749.5 | 1667.0 | 1572.8 | 1503.2 | 1636.0 | 1869.4 | 1959.3 | 2658.5 | 2718.4 | 1445.4 |
| 42.5° | 1998.9 | 1958.2 | 1856.5 | 1719.5 | 1608.1 | 1702.4 | 1885.4 | 1978.6 | 2779.4 | 2976.4 | 1527.8 |
| 45° | 2251.6 | 2239.8 | 2098.5 | 1921.8 | 1804.1 | 1792.3 | 2055.7 | 2158.5 | 3048.2 | 3392.9 | 1706.6 |
| 47.5° | 2616.7 | 2524.6 | 2338.3 | 2149.9 | 2049.2 | 1970.0 | 2316.9 | 2473.2 | 3375.8 | 3880.1 | 1973.2 |
| 50° | 3001.1 | 2947.5 | 2663.8 | 2403.6 | 2280.5 | 2251.6 | 2730.2 | 2871.5 | 3795.5 | 4428.3 | 2417.6 |
| 52.5° | 3656.3 | 3533.2 | 3149.9 | 2822.3 | 2609.2 | 2581.4 | 3179.9 | 3360.8 | 4268.7 | 5082.4 | 2866.2 |
| 55° | 4097.4 | 4021.4 | 3636.0 | 3388.6 | 3109.2 | 3024.6 | 3816.9 | 4015.0 | 4848.0 | 5653.1 | 3314.8 |
| 57.5° | 4238.8 | 4145.6 | 3798.7 | 3738.8 | 3674.5 | 3722.7 | 4477.5 | 4642.4 | 5249.5 | 6098.5 | 3712.0 |
| 60° | 3672.4 | 3669.2 | 3471.1 | 3627.4 | 3945.4 | 4502.1 | 5258.0 | 5330.8 | 5574.9 | 6371.5 | 3959.3 |
| 62.5° | 2641.3 | 2632.8 | 2672.4 | 3060.0 | 3653.1 | 5030.0 | 6331.9 | 6250.5 | 5857.6 | 6523.6 | 4093.1 |
| 65° | 1369.4 | 1375.8 | 1574.9 | 2085.7 | 2939.0 | 4989.3 | 7314.8 | 7212.0 | 6032.1 | 6430.4 | 3998.9 |
| 67.5° | 668.1 | 662.7 | 792.3 | 1213.1 | 1941.1 | 4260.2 | 7652.0 | 7700.2 | 6306.2 | 6088.9 | 3658.5 |
| 70° | 333.0 | 337.3 | 431.5 | 640.3 | 1060.0 | 3060.0 | 7066.4 | 7270.9 | 6053.5 | 5361.9 | 3115.6 |
| 72.5° | 234.5 | 237.7 | 293.4 | 380.1 | 495.7 | 1857.6 | 5865.1 | 6217.3 | 5052.5 | 4265.5 | 2195.9 |
| 75° | 168.1 | 173.4 | 215.2 | 283.7 | 275.2 | 932.5 | 4533.2 | 4742.0 | 3662.7 | 2633.8 | 1163.8 |
| 77.5° | 122.1 | 129.6 | 168.1 | 218.4 | 190.6 | 391.9 | 3139.2 | 3133.8 | 2066.4 | 1251.6 | 471.1 |
| 80° | 80.3 | 85.7 | 124.2 | 161.7 | 136.0 | 182.0 | 1839.4 | 1732.3 | 914.3 | 479.7 | 171.3 |
| 82.5° | 45.0 | 47.1 | 83.5 | 112.4 | 94.2 | 85.7 | 822.3 | 758.0 | 309.4 | 175.6 | 80.3 |
| 85° | 3.2 | 5.4 | 49.3 | 70.7 | 50.3 | 42.8 | 230.2 | 208.8 | 99.6 | 80.3 | 42.8 |
| 87.5° | 0.0 | 0.0 | 6.4 | 12.8 | 8.6 | 6.4 | 55.7 | 48.2 | 30.0 | 47.1 | 21.4 |
| 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-SA2-090-727-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1097.4 | 1097.4 | 1097.4 | 1097.4 | 1097.4 | 1097.4 | 1097.4 | 1097.4 | 1097.4 | 1097.4 | 1097.4 |
| 2.5° | 1107.1 | 1077.1 | 1032.1 | 988.2 | 945.4 | 906.9 | 879.0 | 851.2 | 839.4 | 812.6 | 858.7 |
| 5° | 1113.5 | 1060.0 | 952.9 | 849.0 | 759.1 | 662.7 | 599.6 | 554.6 | 532.1 | 511.8 | 512.8 |
| 7.5° | 1119.9 | 1038.5 | 873.7 | 698.1 | 568.5 | 466.8 | 410.1 | 389.7 | 381.2 | 370.4 | 370.4 |
| 10° | 1112.4 | 1004.3 | 760.2 | 549.3 | 417.6 | 363.0 | 331.9 | 324.4 | 328.7 | 327.6 | 330.8 |
| 12.5° | 1112.4 | 963.6 | 644.5 | 428.3 | 342.6 | 310.5 | 301.9 | 300.9 | 307.3 | 311.6 | 313.7 |
| 15° | 1098.5 | 901.5 | 528.9 | 351.2 | 299.8 | 288.0 | 284.8 | 284.8 | 289.1 | 293.4 | 292.3 |
| 17.5° | 1086.7 | 839.4 | 432.5 | 301.9 | 274.1 | 270.9 | 268.7 | 266.6 | 271.9 | 276.2 | 277.3 |
| 20° | 1057.8 | 752.7 | 356.5 | 271.9 | 257.0 | 252.7 | 251.6 | 249.5 | 254.8 | 259.1 | 262.3 |
| 22.5° | 1016.1 | 654.2 | 305.1 | 249.5 | 242.0 | 236.6 | 233.4 | 234.5 | 239.8 | 244.1 | 242.0 |
| 25° | 960.4 | 567.5 | 267.7 | 233.4 | 222.7 | 219.5 | 215.2 | 217.3 | 218.4 | 222.7 | 225.9 |
| 27.5° | 899.4 | 482.9 | 243.0 | 220.6 | 209.9 | 203.4 | 198.1 | 197.0 | 198.1 | 203.4 | 201.3 |
| 30° | 809.4 | 409.0 | 225.9 | 205.6 | 193.8 | 185.2 | 178.8 | 175.6 | 174.5 | 175.6 | 176.7 |
| 32.5° | 740.9 | 359.7 | 214.1 | 193.8 | 178.8 | 168.1 | 160.6 | 154.2 | 152.0 | 149.9 | 149.9 |
| 35° | 697.0 | 333.0 | 202.4 | 177.7 | 163.8 | 153.1 | 141.3 | 133.8 | 129.6 | 127.4 | 128.5 |
| 37.5° | 602.8 | 286.9 | 188.4 | 166.0 | 149.9 | 137.0 | 125.3 | 113.5 | 110.3 | 112.4 | 112.4 |
| 40° | 523.6 | 246.3 | 175.6 | 152.0 | 133.8 | 122.1 | 109.2 | 95.3 | 93.1 | 99.6 | 100.6 |
| 42.5° | 493.6 | 228.1 | 163.8 | 139.2 | 119.9 | 110.3 | 93.1 | 82.4 | 82.4 | 87.8 | 88.9 |
| 45° | 530.0 | 222.7 | 153.1 | 127.4 | 108.1 | 97.4 | 80.3 | 70.7 | 70.7 | 76.0 | 77.1 |
| 47.5° | 645.6 | 231.3 | 142.4 | 115.6 | 99.6 | 85.7 | 66.4 | 62.1 | 62.1 | 64.2 | 65.3 |
| 50° | 890.8 | 259.1 | 131.7 | 103.9 | 91.0 | 72.8 | 57.8 | 53.5 | 52.5 | 53.5 | 53.5 |
| 52.5° | 1202.4 | 314.8 | 119.9 | 93.1 | 80.3 | 61.0 | 50.3 | 46.0 | 42.8 | 42.8 | 41.8 |
| 55° | 1517.1 | 374.7 | 108.1 | 82.4 | 69.6 | 52.5 | 42.8 | 38.5 | 33.2 | 31.0 | 30.0 |
| 57.5° | 1794.4 | 422.9 | 94.2 | 72.8 | 60.0 | 45.0 | 37.5 | 28.9 | 21.4 | 17.1 | 17.1 |
| 60° | 1966.8 | 435.8 | 81.4 | 63.2 | 49.3 | 38.5 | 30.0 | 19.3 | 10.7 | 8.6 | 7.5 |
| 62.5° | 1998.9 | 395.1 | 69.6 | 53.5 | 41.8 | 32.1 | 21.4 | 10.7 | 4.3 | 1.1 | 1.1 |
| 65° | 1912.2 | 311.6 | 60.0 | 45.0 | 34.3 | 25.7 | 13.9 | 5.4 | 0.0 | 0.0 | 0.0 |
| 67.5° | 1766.6 | 245.2 | 50.3 | 37.5 | 28.9 | 20.3 | 8.6 | 1.1 | 0.0 | 0.0 | 0.0 |
| 70° | 1540.7 | 195.9 | 43.9 | 32.1 | 24.6 | 17.1 | 5.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 1134.9 | 129.6 | 38.5 | 28.9 | 21.4 | 12.8 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 621.0 | 82.4 | 35.3 | 26.8 | 20.3 | 10.7 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 251.6 | 57.8 | 31.0 | 25.7 | 20.3 | 10.7 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 95.3 | 40.7 | 26.8 | 22.5 | 19.3 | 10.7 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 50.3 | 33.2 | 25.7 | 22.5 | 18.2 | 9.6 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 24.6 | 10.7 | 12.8 | 12.8 | 15.0 | 8.6 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 5.4 | 0.0 | 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)