

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: P1208750

Luminaire Tested: UPW-SA2-070-727-U-SLL

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1208750
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-947-1)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/19/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-070-727-U-SLL
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR
LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7812 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

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

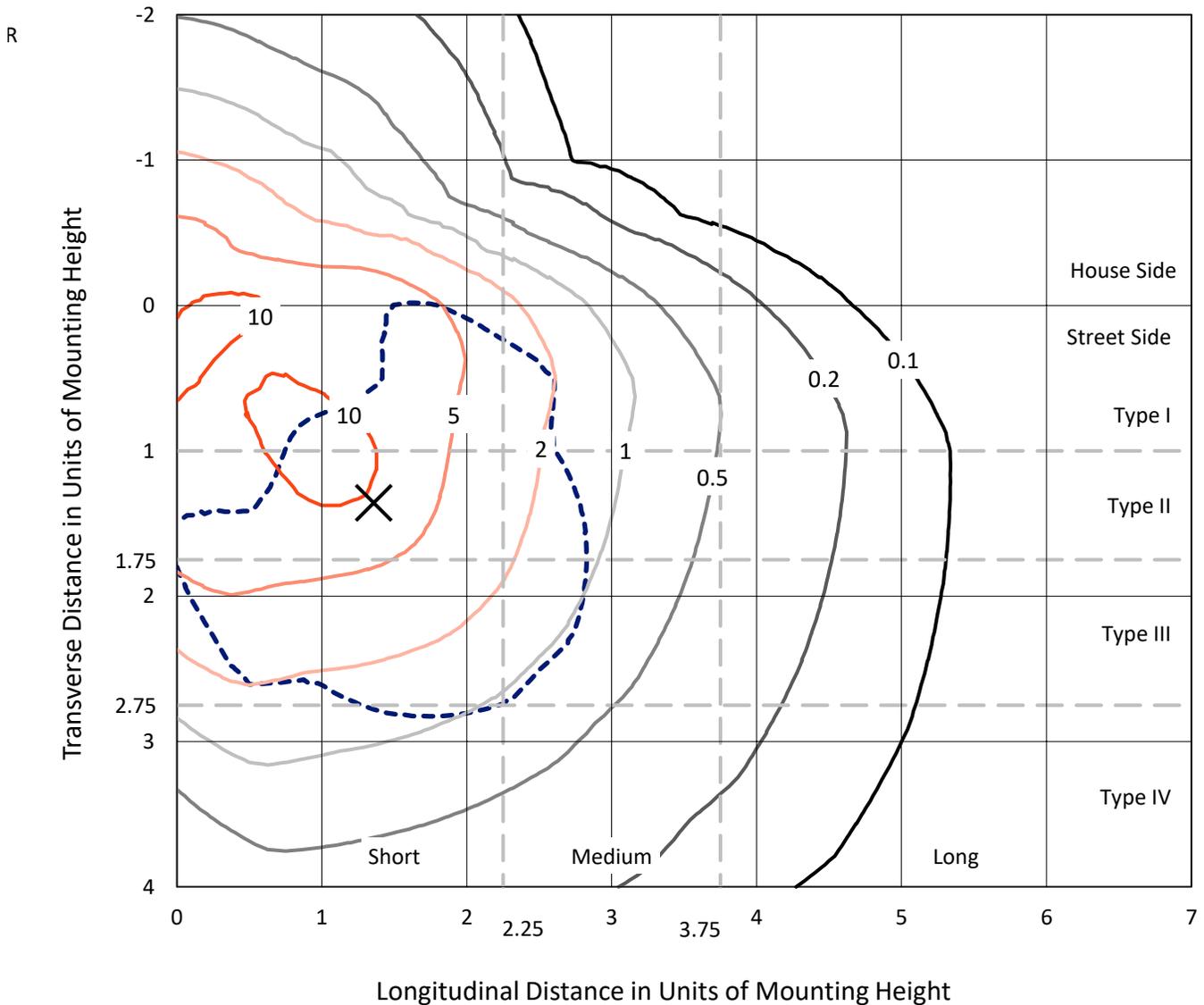


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Iso-Footcandle Lines of Horizontal Illumination

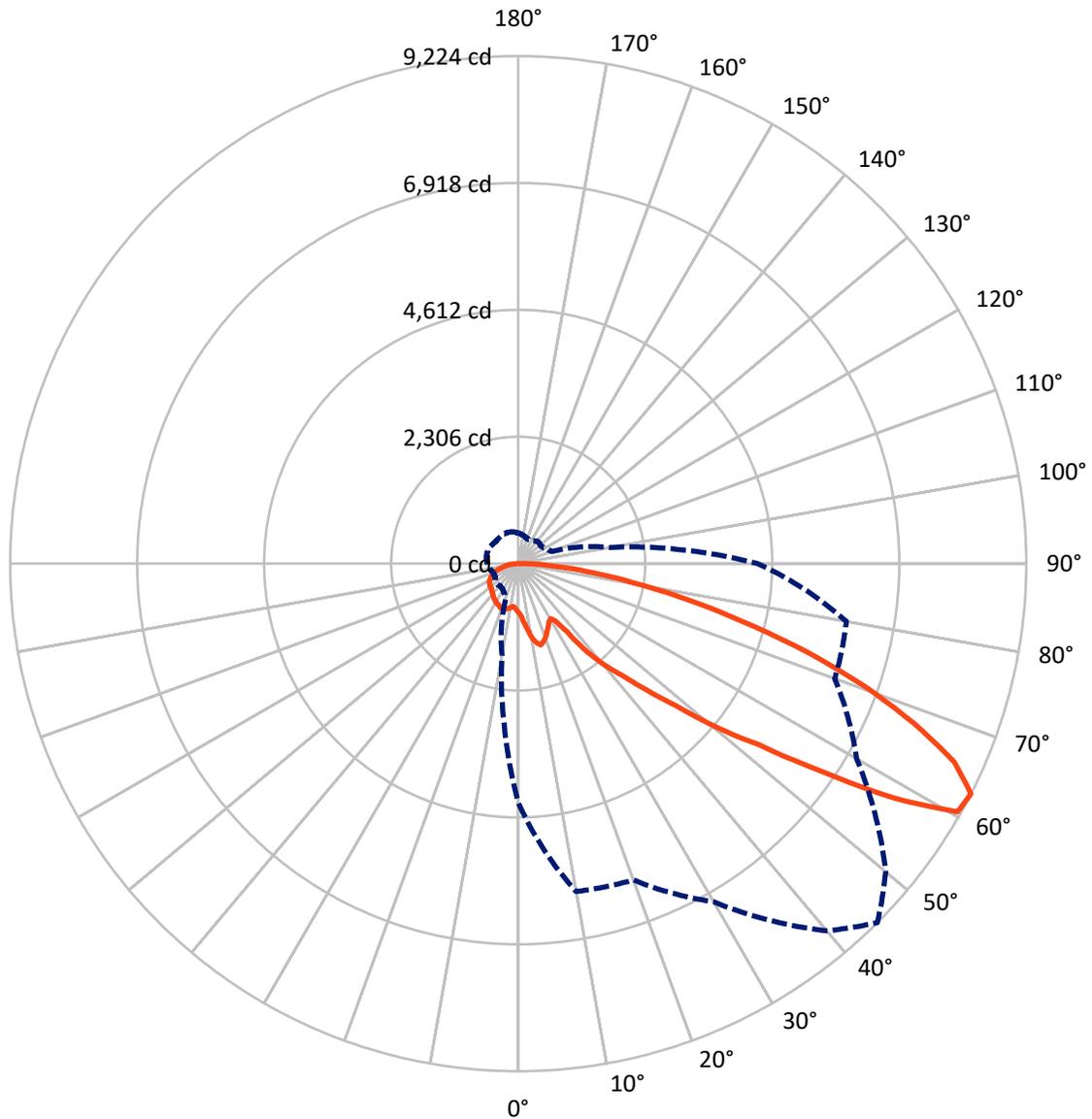
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1914.5 | 0.0 | 1914.5 |
| | % Fixture | 24.5 | 0.0 | 24.5 |
| Street Side | Lumens | 5897.5 | 0.0 | 5897.5 |
| | % Fixture | 75.5 | 0.0 | 75.5 |
| Total | Lumens | 7812.0 | 0.0 | 7812.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 88.9 | 1.1 |
| 10°-20° | 299.7 | 3.8 |
| 20°-30° | 487.4 | 6.2 |
| 30°-40° | 664.8 | 8.5 |
| 40°-50° | 1006.7 | 12.9 |
| 50°-60° | 1731.1 | 22.2 |
| 60°-70° | 2030.1 | 26.0 |
| 70°-80° | 1210.8 | 15.5 |
| 80°-90° | 292.5 | 3.7 |
| 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° | 7812.0 | 100.0 |
| 0°-180° | 7812.0 | 100.0 |



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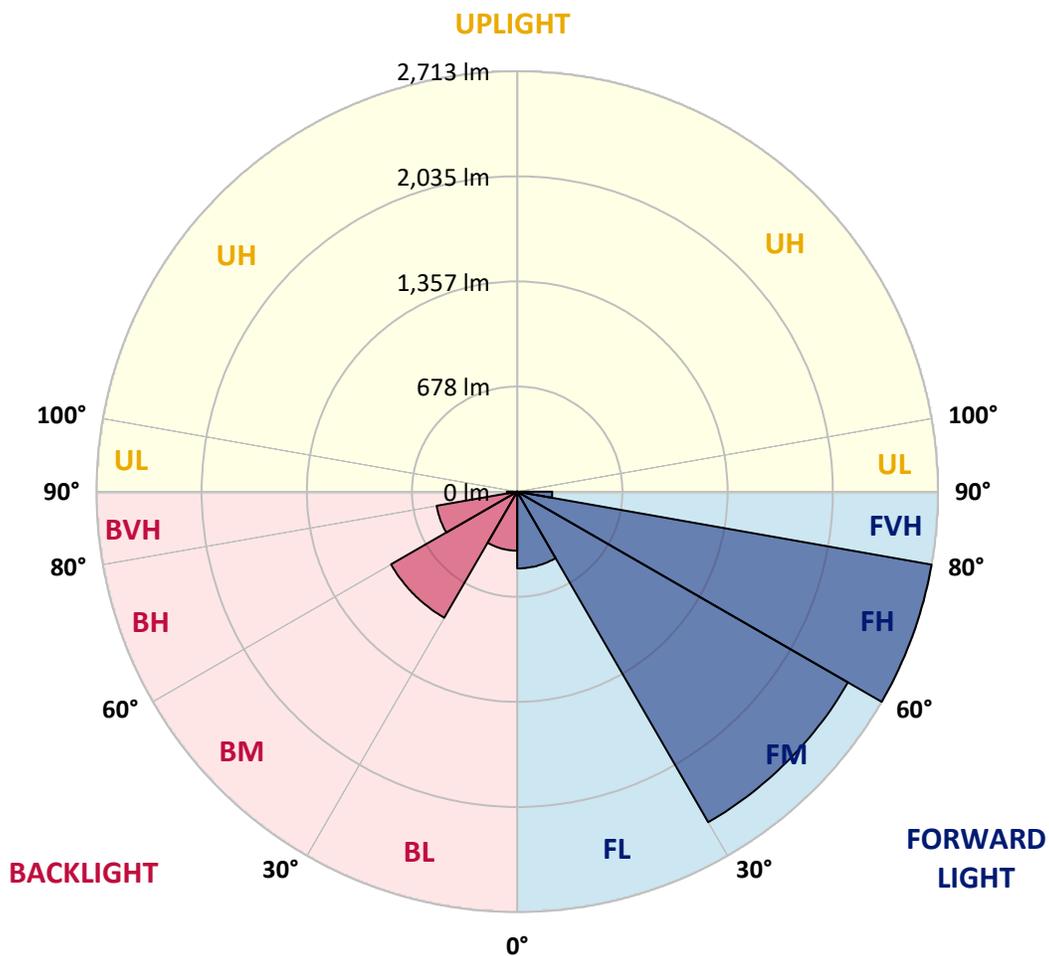
CATALOG NUMBER: UPW-SA2-070-727-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 495.2 | 6.3 | | | |
| FM | (30°-60°) | 2463.0 | 31.5 | | | |
| FH | (60°-80°) | 2713.4 | 34.7 | | | G2/5000 |
| FVH | (80°-90°) | 226.0 | 2.9 | | | G3/500 |
| BL | (0°-30°) | 380.8 | 4.9 | B1/500 | | |
| BM | (30°-60°) | 939.6 | 12.0 | B1/1000 | | |
| BH | (60°-80°) | 527.5 | 6.8 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 66.5 | 0.9 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 889.6 | 889.6 | 889.6 | 889.6 | 889.6 | 889.6 | 889.6 | 889.6 | 889.6 | 889.6 | 889.6 |
| 2.5° | 927.1 | 931.1 | 935.0 | 936.7 | 938.3 | 939.9 | 941.6 | 942.8 | 944.1 | 941.1 | 944.1 |
| 5° | 991.8 | 1004.0 | 1016.2 | 1026.8 | 1037.3 | 1045.4 | 1053.3 | 1057.2 | 1061.2 | 1067.7 | 1061.2 |
| 7.5° | 1079.5 | 1096.2 | 1112.9 | 1135.9 | 1158.9 | 1174.6 | 1190.1 | 1196.9 | 1203.7 | 1205.6 | 1203.7 |
| 10° | 1143.2 | 1186.0 | 1228.8 | 1254.2 | 1279.7 | 1298.3 | 1317.0 | 1332.9 | 1349.0 | 1367.1 | 1349.0 |
| 12.5° | 1220.5 | 1269.2 | 1317.8 | 1354.5 | 1391.2 | 1414.7 | 1438.3 | 1454.1 | 1470.0 | 1475.4 | 1470.0 |
| 15° | 1296.9 | 1350.0 | 1403.1 | 1437.5 | 1471.9 | 1490.2 | 1508.6 | 1516.4 | 1524.3 | 1533.9 | 1524.3 |
| 17.5° | 1381.1 | 1420.9 | 1460.7 | 1483.4 | 1506.1 | 1506.9 | 1507.7 | 1497.8 | 1488.0 | 1485.9 | 1488.0 |
| 20° | 1440.9 | 1473.8 | 1506.8 | 1507.3 | 1507.7 | 1488.1 | 1468.4 | 1451.3 | 1434.3 | 1426.5 | 1434.3 |
| 22.5° | 1485.0 | 1507.6 | 1530.2 | 1506.9 | 1483.7 | 1440.0 | 1396.4 | 1371.6 | 1346.8 | 1340.1 | 1346.8 |
| 25° | 1544.8 | 1548.3 | 1551.8 | 1504.4 | 1457.1 | 1396.1 | 1335.3 | 1303.5 | 1271.6 | 1264.1 | 1271.6 |
| 27.5° | 1583.2 | 1572.2 | 1561.1 | 1489.3 | 1417.3 | 1345.8 | 1274.4 | 1238.2 | 1202.0 | 1191.7 | 1202.0 |
| 30° | 1639.1 | 1599.2 | 1559.2 | 1466.6 | 1374.0 | 1302.0 | 1230.1 | 1199.8 | 1169.5 | 1160.2 | 1169.5 |
| 32.5° | 1695.4 | 1628.9 | 1562.3 | 1463.0 | 1363.7 | 1313.5 | 1263.4 | 1255.2 | 1246.9 | 1240.6 | 1246.9 |
| 35° | 1741.7 | 1666.9 | 1592.2 | 1517.4 | 1442.7 | 1450.3 | 1457.9 | 1484.8 | 1511.8 | 1511.2 | 1511.8 |
| 37.5° | 1822.9 | 1746.4 | 1669.9 | 1657.5 | 1645.2 | 1741.7 | 1838.1 | 1915.6 | 1992.9 | 2033.3 | 1992.9 |
| 40° | 1935.9 | 1882.2 | 1828.5 | 1873.3 | 1918.0 | 2052.1 | 2186.2 | 2277.9 | 2369.6 | 2436.6 | 2369.6 |
| 42.5° | 2093.5 | 2062.9 | 2032.4 | 2088.4 | 2144.3 | 2291.5 | 2438.5 | 2563.5 | 2688.4 | 2782.3 | 2688.4 |
| 45° | 2363.7 | 2332.2 | 2300.6 | 2327.3 | 2353.8 | 2538.0 | 2722.3 | 2918.0 | 3113.7 | 3279.1 | 3113.7 |
| 47.5° | 2815.9 | 2742.6 | 2669.3 | 2646.9 | 2624.5 | 2872.7 | 3120.9 | 3406.9 | 3693.1 | 3863.1 | 3693.1 |
| 50° | 3413.9 | 3299.3 | 3184.8 | 3080.2 | 2975.7 | 3325.9 | 3676.1 | 4092.7 | 4509.3 | 4684.6 | 4509.3 |
| 52.5° | 3963.9 | 3858.7 | 3753.6 | 3569.8 | 3386.0 | 3800.4 | 4214.9 | 4756.0 | 5297.0 | 5465.1 | 5297.0 |
| 55° | 4441.1 | 4485.1 | 4529.1 | 4280.4 | 4031.8 | 4491.6 | 4951.3 | 5644.4 | 6337.4 | 6634.1 | 6337.4 |
| 57.5° | 4785.0 | 5176.3 | 5567.7 | 5301.9 | 5036.3 | 5465.5 | 5894.6 | 6718.4 | 7542.3 | 8038.8 | 7542.3 |
| 60° | 4726.1 | 5510.4 | 6294.7 | 6176.7 | 6058.8 | 6425.4 | 6792.1 | 7685.9 | 8579.8 | 9159.7 | 8579.8 |
| 62.5° | 4342.0 | 5195.5 | 6049.2 | 6082.4 | 6115.7 | 6605.4 | 7095.0 | 7903.1 | 8711.2 | 9224.3 | 8711.2 |
| 65° | 3864.4 | 4667.9 | 5471.2 | 5520.5 | 5569.9 | 6136.0 | 6702.2 | 7494.8 | 8287.4 | 8701.4 | 8287.4 |
| 67.5° | 3315.3 | 4150.8 | 4986.3 | 5016.0 | 5045.9 | 5563.3 | 6080.8 | 6794.2 | 7507.6 | 7745.4 | 7507.6 |
| 70° | 2843.0 | 3638.8 | 4434.8 | 4500.0 | 4565.2 | 5017.1 | 5468.8 | 5997.0 | 6525.3 | 6661.1 | 6525.3 |
| 72.5° | 2279.5 | 3079.9 | 3880.4 | 3980.1 | 4079.8 | 4410.8 | 4741.8 | 5111.2 | 5480.5 | 5467.7 | 5480.5 |
| 75° | 1677.1 | 2427.2 | 3177.4 | 3315.3 | 3453.2 | 3656.2 | 3859.2 | 4054.2 | 4249.3 | 4194.0 | 4249.3 |
| 77.5° | 1162.9 | 1769.5 | 2376.2 | 2522.2 | 2668.4 | 2811.6 | 2954.7 | 3092.2 | 3229.7 | 3142.9 | 3229.7 |
| 80° | 641.2 | 1073.5 | 1505.8 | 1670.2 | 1834.7 | 1984.3 | 2133.8 | 2204.8 | 2275.7 | 2129.3 | 2275.7 |
| 82.5° | 317.3 | 558.7 | 800.1 | 963.7 | 1127.2 | 1278.9 | 1430.4 | 1474.9 | 1519.2 | 1379.4 | 1519.2 |
| 85° | 124.8 | 246.0 | 367.1 | 489.2 | 611.3 | 730.7 | 850.1 | 854.7 | 859.3 | 758.7 | 859.3 |
| 87.5° | 45.0 | 94.5 | 144.0 | 206.9 | 269.8 | 333.9 | 398.1 | 395.8 | 393.5 | 324.8 | 393.5 |
| 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-SA2-070-727-U-SLL

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 889.6 | 889.6 | 889.6 | 889.6 | 889.6 | 889.6 | 889.6 | 889.6 | 889.6 | 889.6 | 889.6 |
| 2.5° | 942.8 | 941.6 | 939.9 | 938.3 | 936.7 | 935.0 | 931.1 | 927.1 | 924.7 | 923.8 | 920.6 |
| 5° | 1057.2 | 1053.3 | 1045.4 | 1037.3 | 1026.8 | 1016.2 | 1004.0 | 991.8 | 984.5 | 974.5 | 960.2 |
| 7.5° | 1196.9 | 1190.1 | 1174.6 | 1158.9 | 1135.9 | 1112.9 | 1096.2 | 1079.5 | 1046.7 | 1019.0 | 996.2 |
| 10° | 1332.9 | 1317.0 | 1298.3 | 1279.7 | 1254.2 | 1228.8 | 1186.0 | 1143.2 | 1116.1 | 1083.9 | 1045.1 |
| 12.5° | 1454.1 | 1438.3 | 1414.7 | 1391.2 | 1354.5 | 1317.8 | 1269.2 | 1220.5 | 1178.7 | 1133.2 | 1086.4 |
| 15° | 1516.4 | 1508.6 | 1490.2 | 1471.9 | 1437.5 | 1403.1 | 1350.0 | 1296.9 | 1246.0 | 1188.6 | 1127.0 |
| 17.5° | 1497.8 | 1507.7 | 1506.9 | 1506.1 | 1483.4 | 1460.7 | 1420.9 | 1381.1 | 1306.6 | 1233.1 | 1160.2 |
| 20° | 1451.3 | 1468.4 | 1488.1 | 1507.7 | 1507.3 | 1506.8 | 1473.8 | 1440.9 | 1365.8 | 1286.1 | 1197.6 |
| 22.5° | 1371.6 | 1396.4 | 1440.0 | 1483.7 | 1506.9 | 1530.2 | 1507.6 | 1485.0 | 1406.5 | 1320.9 | 1218.3 |
| 25° | 1303.5 | 1335.3 | 1396.1 | 1457.1 | 1504.4 | 1551.8 | 1548.3 | 1544.8 | 1450.9 | 1350.7 | 1231.4 |
| 27.5° | 1238.2 | 1274.4 | 1345.8 | 1417.3 | 1489.3 | 1561.1 | 1572.2 | 1583.2 | 1498.6 | 1402.1 | 1267.7 |
| 30° | 1199.8 | 1230.1 | 1302.0 | 1374.0 | 1466.6 | 1559.2 | 1599.2 | 1639.1 | 1552.1 | 1449.2 | 1298.6 |
| 32.5° | 1255.2 | 1263.4 | 1313.5 | 1363.7 | 1463.0 | 1562.3 | 1628.9 | 1695.4 | 1601.6 | 1489.5 | 1318.7 |
| 35° | 1484.8 | 1457.9 | 1450.3 | 1442.7 | 1517.4 | 1592.2 | 1666.9 | 1741.7 | 1649.5 | 1531.3 | 1337.1 |
| 37.5° | 1915.6 | 1838.1 | 1741.7 | 1645.2 | 1657.5 | 1669.9 | 1746.4 | 1822.9 | 1712.7 | 1572.3 | 1351.4 |
| 40° | 2277.9 | 2186.2 | 2052.1 | 1918.0 | 1873.3 | 1828.5 | 1882.2 | 1935.9 | 1814.7 | 1645.8 | 1383.9 |
| 42.5° | 2563.5 | 2438.5 | 2291.5 | 2144.3 | 2088.4 | 2032.4 | 2062.9 | 2093.5 | 1926.5 | 1713.9 | 1414.8 |
| 45° | 2918.0 | 2722.3 | 2538.0 | 2353.8 | 2327.3 | 2300.6 | 2332.2 | 2363.7 | 2107.1 | 1808.5 | 1457.2 |
| 47.5° | 3406.9 | 3120.9 | 2872.7 | 2624.5 | 2646.9 | 2669.3 | 2742.6 | 2815.9 | 2409.6 | 1960.6 | 1524.7 |
| 50° | 4092.7 | 3676.1 | 3325.9 | 2975.7 | 3080.2 | 3184.8 | 3299.3 | 3413.9 | 2842.6 | 2204.2 | 1644.1 |
| 52.5° | 4756.0 | 4214.9 | 3800.4 | 3386.0 | 3569.8 | 3753.6 | 3858.7 | 3963.9 | 3220.1 | 2401.2 | 1735.6 |
| 55° | 5644.4 | 4951.3 | 4491.6 | 4031.8 | 4280.4 | 4529.1 | 4485.1 | 4441.1 | 3473.7 | 2481.8 | 1759.5 |
| 57.5° | 6718.4 | 5894.6 | 5465.5 | 5036.3 | 5301.9 | 5567.7 | 5176.3 | 4785.0 | 3510.7 | 2333.4 | 1647.5 |
| 60° | 7685.9 | 6792.1 | 6425.4 | 6058.8 | 6176.7 | 6294.7 | 5510.4 | 4726.1 | 3292.3 | 2007.2 | 1403.6 |
| 62.5° | 7903.1 | 7095.0 | 6605.4 | 6115.7 | 6082.4 | 6049.2 | 5195.5 | 4342.0 | 2931.1 | 1686.0 | 1166.4 |
| 65° | 7494.8 | 6702.2 | 6136.0 | 5569.9 | 5520.5 | 5471.2 | 4667.9 | 3864.4 | 2530.0 | 1383.9 | 949.0 |
| 67.5° | 6794.2 | 6080.8 | 5563.3 | 5045.9 | 5016.0 | 4986.3 | 4150.8 | 3315.3 | 2108.1 | 1103.7 | 746.6 |
| 70° | 5997.0 | 5468.8 | 5017.1 | 4565.2 | 4500.0 | 4434.8 | 3638.8 | 2843.0 | 1727.4 | 848.8 | 580.0 |
| 72.5° | 5111.2 | 4741.8 | 4410.8 | 4079.8 | 3980.1 | 3880.4 | 3079.9 | 2279.5 | 1332.9 | 621.6 | 437.6 |
| 75° | 4054.2 | 3859.2 | 3656.2 | 3453.2 | 3315.3 | 3177.4 | 2427.2 | 1677.1 | 959.3 | 438.3 | 323.5 |
| 77.5° | 3092.2 | 2954.7 | 2811.6 | 2668.4 | 2522.2 | 2376.2 | 1769.5 | 1162.9 | 660.7 | 305.7 | 238.3 |
| 80° | 2204.8 | 2133.8 | 1984.3 | 1834.7 | 1670.2 | 1505.8 | 1073.5 | 641.2 | 380.3 | 197.3 | 164.6 |
| 82.5° | 1474.9 | 1430.4 | 1278.9 | 1127.2 | 963.7 | 800.1 | 558.7 | 317.3 | 202.8 | 124.1 | 110.8 |
| 85° | 854.7 | 850.1 | 730.7 | 611.3 | 489.2 | 367.1 | 246.0 | 124.8 | 91.7 | 69.7 | 66.0 |
| 87.5° | 395.8 | 398.1 | 333.9 | 269.8 | 206.9 | 144.0 | 94.5 | 45.0 | 34.9 | 29.0 | 27.8 |
| 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-SA2-070-727-U-SLL

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 889.6 | 889.6 | 889.6 | 889.6 | 889.6 | 889.6 | 889.6 | 889.6 | 889.6 | 889.6 | 889.6 |
| 2.5° | 917.4 | 911.5 | 905.8 | 901.7 | 897.5 | 892.7 | 885.1 | 881.2 | 877.4 | 873.7 | 870.0 |
| 5° | 945.9 | 932.5 | 919.1 | 907.9 | 896.6 | 886.6 | 877.2 | 866.7 | 856.3 | 847.2 | 838.1 |
| 7.5° | 973.4 | 951.8 | 930.2 | 913.6 | 897.0 | 881.3 | 865.9 | 853.6 | 841.2 | 831.1 | 821.1 |
| 10° | 1006.4 | 976.2 | 946.2 | 927.7 | 909.3 | 894.8 | 870.4 | 857.4 | 844.4 | 834.6 | 824.8 |
| 12.5° | 1039.6 | 1001.5 | 963.6 | 936.8 | 910.1 | 890.0 | 879.8 | 873.8 | 867.8 | 860.7 | 853.6 |
| 15° | 1065.3 | 1017.1 | 968.9 | 938.1 | 907.5 | 886.6 | 880.7 | 882.7 | 884.8 | 887.1 | 889.4 |
| 17.5° | 1087.1 | 1024.4 | 961.6 | 925.6 | 889.6 | 869.1 | 878.6 | 885.6 | 892.4 | 902.9 | 913.4 |
| 20° | 1108.9 | 1030.0 | 950.9 | 907.4 | 863.9 | 843.8 | 848.1 | 864.3 | 880.4 | 900.2 | 920.0 |
| 22.5° | 1115.7 | 1022.1 | 928.5 | 879.2 | 830.1 | 810.2 | 827.4 | 847.3 | 867.1 | 887.8 | 908.4 |
| 25° | 1112.1 | 1005.4 | 898.8 | 848.6 | 798.4 | 781.8 | 799.3 | 818.8 | 838.3 | 858.2 | 878.1 |
| 27.5° | 1133.4 | 1009.6 | 885.7 | 830.1 | 774.4 | 756.5 | 773.3 | 789.7 | 806.2 | 823.7 | 841.2 |
| 30° | 1148.0 | 1011.9 | 875.8 | 817.3 | 758.8 | 739.4 | 744.9 | 756.3 | 767.6 | 782.9 | 798.1 |
| 32.5° | 1147.8 | 1000.3 | 852.8 | 797.9 | 742.9 | 725.5 | 730.9 | 735.6 | 740.3 | 751.2 | 762.1 |
| 35° | 1143.0 | 983.8 | 824.6 | 774.3 | 723.9 | 710.6 | 709.0 | 708.7 | 708.5 | 713.3 | 718.3 |
| 37.5° | 1130.6 | 959.3 | 787.9 | 739.9 | 691.9 | 682.3 | 678.6 | 675.5 | 672.4 | 675.6 | 678.8 |
| 40° | 1122.0 | 935.5 | 749.1 | 702.7 | 656.3 | 653.0 | 650.4 | 646.0 | 641.7 | 642.0 | 642.4 |
| 42.5° | 1115.7 | 915.8 | 715.9 | 671.4 | 627.0 | 620.7 | 613.7 | 611.6 | 609.5 | 608.4 | 607.2 |
| 45° | 1105.9 | 900.0 | 694.1 | 649.4 | 604.6 | 586.2 | 586.0 | 581.3 | 576.6 | 578.3 | 579.9 |
| 47.5° | 1088.8 | 883.6 | 678.3 | 637.8 | 597.3 | 568.3 | 557.5 | 555.1 | 552.6 | 555.2 | 557.9 |
| 50° | 1084.1 | 877.6 | 671.2 | 634.0 | 597.0 | 554.4 | 533.9 | 532.5 | 531.0 | 538.5 | 545.8 |
| 52.5° | 1069.9 | 862.5 | 654.9 | 626.3 | 597.6 | 555.2 | 527.6 | 523.7 | 519.9 | 530.8 | 541.7 |
| 55° | 1037.1 | 831.3 | 625.5 | 615.0 | 604.3 | 579.2 | 530.8 | 518.3 | 505.9 | 519.3 | 532.5 |
| 57.5° | 961.6 | 784.8 | 607.8 | 601.2 | 594.5 | 595.0 | 540.2 | 516.5 | 492.8 | 505.9 | 519.0 |
| 60° | 799.9 | 697.5 | 595.2 | 575.2 | 555.2 | 574.4 | 542.1 | 514.6 | 487.0 | 494.6 | 502.2 |
| 62.5° | 646.9 | 598.4 | 549.8 | 533.9 | 517.9 | 540.4 | 528.9 | 505.5 | 482.1 | 481.2 | 480.3 |
| 65° | 514.0 | 504.4 | 494.8 | 491.3 | 487.8 | 493.7 | 500.2 | 485.0 | 469.7 | 462.9 | 456.2 |
| 67.5° | 389.5 | 398.2 | 406.8 | 423.8 | 440.7 | 443.1 | 458.3 | 450.0 | 441.6 | 436.3 | 431.1 |
| 70° | 311.2 | 323.0 | 334.8 | 359.9 | 385.0 | 397.2 | 410.9 | 412.1 | 413.1 | 409.3 | 405.3 |
| 72.5° | 253.6 | 263.8 | 274.1 | 302.5 | 330.9 | 357.5 | 372.3 | 372.3 | 372.3 | 370.5 | 368.6 |
| 75° | 208.8 | 216.4 | 223.9 | 250.2 | 276.6 | 310.4 | 325.7 | 327.2 | 328.7 | 327.5 | 326.3 |
| 77.5° | 170.9 | 174.6 | 178.3 | 202.2 | 226.1 | 265.8 | 281.8 | 285.4 | 289.0 | 287.6 | 286.2 |
| 80° | 131.8 | 134.4 | 136.9 | 156.8 | 176.8 | 212.1 | 230.7 | 236.0 | 241.1 | 240.8 | 240.3 |
| 82.5° | 97.3 | 98.7 | 100.2 | 115.3 | 130.5 | 155.8 | 175.8 | 183.9 | 192.1 | 198.0 | 203.9 |
| 85° | 62.4 | 63.2 | 63.9 | 73.4 | 82.9 | 98.7 | 118.9 | 133.9 | 148.8 | 159.8 | 170.7 |
| 87.5° | 26.4 | 25.5 | 24.6 | 29.5 | 34.2 | 42.8 | 67.4 | 82.7 | 98.0 | 103.5 | 109.1 |
| 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: P1208750

CATALOG NUMBER: UPW-SA2-070-727-U-SLL

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210° | 215° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 889.6 | 889.6 | 889.6 | 889.6 | 889.6 | 889.6 | 889.6 | 889.6 | 889.6 | 889.6 | 889.6 |
| 2.5° | 866.5 | 863.0 | 860.4 | 857.7 | 852.6 | 847.5 | 844.6 | 841.8 | 840.8 | 839.8 | 841.9 |
| 5° | 832.4 | 826.8 | 820.6 | 814.5 | 809.8 | 805.1 | 801.4 | 797.8 | 796.2 | 794.6 | 795.1 |
| 7.5° | 812.9 | 804.8 | 798.9 | 793.1 | 792.0 | 791.0 | 788.5 | 786.2 | 785.9 | 785.7 | 786.4 |
| 10° | 817.3 | 810.0 | 805.9 | 801.9 | 800.6 | 799.3 | 799.2 | 799.0 | 801.4 | 803.9 | 805.9 |
| 12.5° | 846.1 | 838.8 | 839.1 | 839.4 | 833.0 | 826.8 | 825.1 | 823.4 | 826.6 | 829.5 | 830.7 |
| 15° | 887.4 | 885.4 | 878.2 | 870.8 | 863.3 | 855.7 | 853.3 | 850.8 | 850.5 | 850.3 | 849.3 |
| 17.5° | 917.7 | 922.1 | 913.5 | 904.9 | 892.8 | 880.7 | 874.9 | 869.4 | 866.8 | 864.3 | 863.1 |
| 20° | 927.2 | 934.6 | 926.3 | 918.0 | 904.4 | 890.9 | 881.9 | 873.0 | 871.7 | 870.4 | 870.3 |
| 22.5° | 914.8 | 921.2 | 916.6 | 911.9 | 897.3 | 882.6 | 872.9 | 863.2 | 859.1 | 855.1 | 856.9 |
| 25° | 887.1 | 896.2 | 895.0 | 894.0 | 878.8 | 863.6 | 852.9 | 842.3 | 840.3 | 838.3 | 837.8 |
| 27.5° | 851.3 | 861.5 | 862.9 | 864.3 | 852.9 | 841.6 | 831.6 | 821.7 | 819.9 | 818.2 | 820.5 |
| 30° | 808.6 | 819.1 | 822.7 | 826.3 | 819.1 | 811.9 | 805.1 | 798.4 | 798.7 | 799.0 | 802.4 |
| 32.5° | 772.1 | 782.1 | 787.6 | 793.1 | 791.9 | 790.8 | 788.2 | 785.5 | 782.1 | 778.6 | 779.7 |
| 35° | 727.3 | 736.4 | 747.1 | 757.8 | 759.2 | 760.6 | 761.6 | 762.6 | 762.6 | 762.6 | 765.5 |
| 37.5° | 686.6 | 694.5 | 705.6 | 716.7 | 724.7 | 732.6 | 736.3 | 739.9 | 742.8 | 745.6 | 746.8 |
| 40° | 649.4 | 656.5 | 667.0 | 677.5 | 692.2 | 707.0 | 715.1 | 723.3 | 723.6 | 723.9 | 722.2 |
| 42.5° | 613.2 | 619.1 | 635.0 | 650.8 | 667.3 | 683.7 | 691.0 | 698.2 | 701.4 | 704.5 | 705.3 |
| 45° | 587.5 | 595.0 | 608.7 | 622.5 | 641.3 | 660.2 | 669.2 | 678.2 | 679.7 | 681.4 | 681.0 |
| 47.5° | 565.5 | 573.1 | 590.0 | 606.7 | 625.2 | 643.6 | 653.1 | 662.6 | 664.0 | 665.4 | 666.6 |
| 50° | 554.5 | 563.3 | 577.9 | 592.3 | 612.0 | 631.6 | 644.7 | 657.8 | 657.4 | 656.9 | 653.5 |
| 52.5° | 548.3 | 555.1 | 568.7 | 582.3 | 603.8 | 625.3 | 638.0 | 650.6 | 651.7 | 652.8 | 650.8 |
| 55° | 540.6 | 548.7 | 563.8 | 578.8 | 597.9 | 617.1 | 629.3 | 641.5 | 642.7 | 644.1 | 640.3 |
| 57.5° | 533.0 | 546.9 | 562.2 | 577.5 | 597.1 | 616.5 | 627.0 | 637.5 | 635.1 | 632.8 | 629.8 |
| 60° | 522.2 | 542.1 | 556.6 | 571.0 | 589.1 | 607.2 | 614.4 | 621.6 | 618.8 | 615.9 | 609.5 |
| 62.5° | 501.8 | 523.1 | 539.6 | 556.1 | 572.6 | 589.1 | 594.2 | 599.3 | 596.6 | 593.8 | 586.6 |
| 65° | 475.0 | 494.0 | 511.5 | 529.1 | 542.7 | 556.3 | 562.6 | 568.8 | 564.3 | 559.8 | 552.5 |
| 67.5° | 449.5 | 467.9 | 481.5 | 495.0 | 508.5 | 522.1 | 527.2 | 532.4 | 527.4 | 522.5 | 512.9 |
| 70° | 418.9 | 432.3 | 449.7 | 467.1 | 474.6 | 482.1 | 485.0 | 487.8 | 483.1 | 478.4 | 472.3 |
| 72.5° | 381.9 | 395.3 | 406.7 | 418.2 | 425.2 | 432.3 | 435.6 | 439.0 | 433.7 | 428.5 | 420.3 |
| 75° | 337.8 | 349.2 | 359.7 | 370.2 | 377.8 | 385.4 | 387.4 | 389.4 | 382.8 | 376.3 | 367.7 |
| 77.5° | 293.2 | 300.1 | 304.6 | 309.0 | 317.8 | 326.5 | 328.2 | 329.8 | 324.9 | 320.0 | 312.0 |
| 80° | 243.6 | 246.9 | 248.0 | 249.2 | 255.7 | 262.1 | 263.8 | 265.6 | 263.2 | 260.9 | 254.2 |
| 82.5° | 206.0 | 208.2 | 198.6 | 189.0 | 194.2 | 199.2 | 203.2 | 207.1 | 206.0 | 205.0 | 199.5 |
| 85° | 164.2 | 157.8 | 133.0 | 108.3 | 118.0 | 127.9 | 134.4 | 141.0 | 142.1 | 143.2 | 139.3 |
| 87.5° | 100.5 | 91.8 | 73.7 | 55.4 | 63.4 | 71.4 | 77.9 | 84.5 | 80.2 | 76.0 | 67.2 |
| 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: P1208750

CATALOG NUMBER: UPW-SA2-070-727-U-SLL

CANDELA DISTRIBUTION (continued):

| | 220° | 225° | 230° | 235° | 240° | 245° | 250° | 255° | 260° | 265° | 270° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 889.6 | 889.6 | 889.6 | 889.6 | 889.6 | 889.6 | 889.6 | 889.6 | 889.6 | 889.6 | 889.6 |
| 2.5° | 844.0 | 846.8 | 844.0 | 841.9 | 839.8 | 840.8 | 841.8 | 844.6 | 847.5 | 852.6 | 857.7 |
| 5° | 795.5 | 795.3 | 795.5 | 795.1 | 794.6 | 796.2 | 797.8 | 801.4 | 805.1 | 809.8 | 814.5 |
| 7.5° | 787.0 | 784.0 | 787.0 | 786.4 | 785.7 | 785.9 | 786.2 | 788.5 | 791.0 | 792.0 | 793.1 |
| 10° | 808.0 | 806.7 | 808.0 | 805.9 | 803.9 | 801.4 | 799.0 | 799.2 | 799.3 | 800.6 | 801.9 |
| 12.5° | 831.8 | 829.4 | 831.8 | 830.7 | 829.5 | 826.6 | 823.4 | 825.1 | 826.8 | 833.0 | 839.4 |
| 15° | 848.1 | 846.8 | 848.1 | 849.3 | 850.3 | 850.5 | 850.8 | 853.3 | 855.7 | 863.3 | 870.8 |
| 17.5° | 861.8 | 863.4 | 861.8 | 863.1 | 864.3 | 866.8 | 869.4 | 874.9 | 880.7 | 892.8 | 904.9 |
| 20° | 870.2 | 869.5 | 870.2 | 870.3 | 870.4 | 871.7 | 873.0 | 881.9 | 890.9 | 904.4 | 918.0 |
| 22.5° | 858.6 | 864.3 | 858.6 | 856.9 | 855.1 | 859.1 | 863.2 | 872.9 | 882.6 | 897.3 | 911.9 |
| 25° | 837.2 | 834.6 | 837.2 | 837.8 | 838.3 | 840.3 | 842.3 | 852.9 | 863.6 | 878.8 | 894.0 |
| 27.5° | 822.6 | 824.1 | 822.6 | 820.5 | 818.2 | 819.9 | 821.7 | 831.6 | 841.6 | 852.9 | 864.3 |
| 30° | 805.8 | 811.9 | 805.8 | 802.4 | 799.0 | 798.7 | 798.4 | 805.1 | 811.9 | 819.1 | 826.3 |
| 32.5° | 780.9 | 785.7 | 780.9 | 779.7 | 778.6 | 782.1 | 785.5 | 788.2 | 790.8 | 791.9 | 793.1 |
| 35° | 768.3 | 774.4 | 768.3 | 765.5 | 762.6 | 762.6 | 762.6 | 761.6 | 760.6 | 759.2 | 757.8 |
| 37.5° | 748.0 | 748.2 | 748.0 | 746.8 | 745.6 | 742.8 | 739.9 | 736.3 | 732.6 | 724.7 | 716.7 |
| 40° | 720.4 | 721.1 | 720.4 | 722.2 | 723.9 | 723.6 | 723.3 | 715.1 | 707.0 | 692.2 | 677.5 |
| 42.5° | 706.1 | 708.0 | 706.1 | 705.3 | 704.5 | 701.4 | 698.2 | 691.0 | 683.7 | 667.3 | 650.8 |
| 45° | 680.5 | 678.3 | 680.5 | 681.0 | 681.4 | 679.7 | 678.2 | 669.2 | 660.2 | 641.3 | 622.5 |
| 47.5° | 667.7 | 669.6 | 667.7 | 666.6 | 665.4 | 664.0 | 662.6 | 653.1 | 643.6 | 625.2 | 606.7 |
| 50° | 650.0 | 648.7 | 650.0 | 653.5 | 656.9 | 657.4 | 657.8 | 644.7 | 631.6 | 612.0 | 592.3 |
| 52.5° | 648.8 | 649.5 | 648.8 | 650.8 | 652.8 | 651.7 | 650.6 | 638.0 | 625.3 | 603.8 | 582.3 |
| 55° | 636.4 | 633.8 | 636.4 | 640.3 | 644.1 | 642.7 | 641.5 | 629.3 | 617.1 | 597.9 | 578.8 |
| 57.5° | 626.8 | 627.7 | 626.8 | 629.8 | 632.8 | 635.1 | 637.5 | 627.0 | 616.5 | 597.1 | 577.5 |
| 60° | 603.1 | 598.0 | 603.1 | 609.5 | 615.9 | 618.8 | 621.6 | 614.4 | 607.2 | 589.1 | 571.0 |
| 62.5° | 579.2 | 570.1 | 579.2 | 586.6 | 593.8 | 596.6 | 599.3 | 594.2 | 589.1 | 572.6 | 556.1 |
| 65° | 545.2 | 540.4 | 545.2 | 552.5 | 559.8 | 564.3 | 568.8 | 562.6 | 556.3 | 542.7 | 529.1 |
| 67.5° | 503.3 | 495.9 | 503.3 | 512.9 | 522.5 | 527.4 | 532.4 | 527.2 | 522.1 | 508.5 | 495.0 |
| 70° | 466.2 | 461.0 | 466.2 | 472.3 | 478.4 | 483.1 | 487.8 | 485.0 | 482.1 | 474.6 | 467.1 |
| 72.5° | 412.1 | 406.8 | 412.1 | 420.3 | 428.5 | 433.7 | 439.0 | 435.6 | 432.3 | 425.2 | 418.2 |
| 75° | 359.2 | 351.8 | 359.2 | 367.7 | 376.3 | 382.8 | 389.4 | 387.4 | 385.4 | 377.8 | 370.2 |
| 77.5° | 304.0 | 296.8 | 304.0 | 312.0 | 320.0 | 324.9 | 329.8 | 328.2 | 326.5 | 317.8 | 309.0 |
| 80° | 247.8 | 238.3 | 247.8 | 254.2 | 260.9 | 263.2 | 265.6 | 263.8 | 262.1 | 255.7 | 249.2 |
| 82.5° | 194.0 | 186.0 | 194.0 | 199.5 | 205.0 | 206.0 | 207.1 | 203.2 | 199.2 | 194.2 | 189.0 |
| 85° | 135.5 | 129.2 | 135.5 | 139.3 | 143.2 | 142.1 | 141.0 | 134.4 | 127.9 | 118.0 | 108.3 |
| 87.5° | 58.5 | 48.9 | 58.5 | 67.2 | 76.0 | 80.2 | 84.5 | 77.9 | 71.4 | 63.4 | 55.4 |
| 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: P1208750

CATALOG NUMBER: UPW-SA2-070-727-U-SLL

CANDELA DISTRIBUTION (continued):

| | 275° | 280° | 285° | 290° | 295° | 300° | 305° | 310° | 315° | 320° | 325° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 889.6 | 889.6 | 889.6 | 889.6 | 889.6 | 889.6 | 889.6 | 889.6 | 889.6 | 889.6 | 889.6 |
| 2.5° | 860.4 | 863.0 | 866.5 | 870.0 | 873.7 | 877.4 | 881.2 | 885.1 | 892.7 | 897.5 | 901.7 |
| 5° | 820.6 | 826.8 | 832.4 | 838.1 | 847.2 | 856.3 | 866.7 | 877.2 | 886.6 | 896.6 | 907.9 |
| 7.5° | 798.9 | 804.8 | 812.9 | 821.1 | 831.1 | 841.2 | 853.6 | 865.9 | 881.3 | 897.0 | 913.6 |
| 10° | 805.9 | 810.0 | 817.3 | 824.8 | 834.6 | 844.4 | 857.4 | 870.4 | 894.8 | 909.3 | 927.7 |
| 12.5° | 839.1 | 838.8 | 846.1 | 853.6 | 860.7 | 867.8 | 873.8 | 879.8 | 890.0 | 910.1 | 936.8 |
| 15° | 878.2 | 885.4 | 887.4 | 889.4 | 887.1 | 884.8 | 882.7 | 880.7 | 886.6 | 907.5 | 938.1 |
| 17.5° | 913.5 | 922.1 | 917.7 | 913.4 | 902.9 | 892.4 | 885.6 | 878.6 | 869.1 | 889.6 | 925.6 |
| 20° | 926.3 | 934.6 | 927.2 | 920.0 | 900.2 | 880.4 | 864.3 | 848.1 | 843.8 | 863.9 | 907.4 |
| 22.5° | 916.6 | 921.2 | 914.8 | 908.4 | 887.8 | 867.1 | 847.3 | 827.4 | 810.2 | 830.1 | 879.2 |
| 25° | 895.0 | 896.2 | 887.1 | 878.1 | 858.2 | 838.3 | 818.8 | 799.3 | 781.8 | 798.4 | 848.6 |
| 27.5° | 862.9 | 861.5 | 851.3 | 841.2 | 823.7 | 806.2 | 789.7 | 773.3 | 756.5 | 774.4 | 830.1 |
| 30° | 822.7 | 819.1 | 808.6 | 798.1 | 782.9 | 767.6 | 756.3 | 744.9 | 739.4 | 758.8 | 817.3 |
| 32.5° | 787.6 | 782.1 | 772.1 | 762.1 | 751.2 | 740.3 | 735.6 | 730.9 | 725.5 | 742.9 | 797.9 |
| 35° | 747.1 | 736.4 | 727.3 | 718.3 | 713.3 | 708.5 | 708.7 | 709.0 | 710.6 | 723.9 | 774.3 |
| 37.5° | 705.6 | 694.5 | 686.6 | 678.8 | 675.6 | 672.4 | 675.5 | 678.6 | 682.3 | 691.9 | 739.9 |
| 40° | 667.0 | 656.5 | 649.4 | 642.4 | 642.0 | 641.7 | 646.0 | 650.4 | 653.0 | 656.3 | 702.7 |
| 42.5° | 635.0 | 619.1 | 613.2 | 607.2 | 608.4 | 609.5 | 611.6 | 613.7 | 620.7 | 627.0 | 671.4 |
| 45° | 608.7 | 595.0 | 587.5 | 579.9 | 578.3 | 576.6 | 581.3 | 586.0 | 586.2 | 604.6 | 649.4 |
| 47.5° | 590.0 | 573.1 | 565.5 | 557.9 | 555.2 | 552.6 | 555.1 | 557.5 | 568.3 | 597.3 | 637.8 |
| 50° | 577.9 | 563.3 | 554.5 | 545.8 | 538.5 | 531.0 | 532.5 | 533.9 | 554.4 | 597.0 | 634.0 |
| 52.5° | 568.7 | 555.1 | 548.3 | 541.7 | 530.8 | 519.9 | 523.7 | 527.6 | 555.2 | 597.6 | 626.3 |
| 55° | 563.8 | 548.7 | 540.6 | 532.5 | 519.3 | 505.9 | 518.3 | 530.8 | 579.2 | 604.3 | 615.0 |
| 57.5° | 562.2 | 546.9 | 533.0 | 519.0 | 505.9 | 492.8 | 516.5 | 540.2 | 595.0 | 594.5 | 601.2 |
| 60° | 556.6 | 542.1 | 522.2 | 502.2 | 494.6 | 487.0 | 514.6 | 542.1 | 574.4 | 555.2 | 575.2 |
| 62.5° | 539.6 | 523.1 | 501.8 | 480.3 | 481.2 | 482.1 | 505.5 | 528.9 | 540.4 | 517.9 | 533.9 |
| 65° | 511.5 | 494.0 | 475.0 | 456.2 | 462.9 | 469.7 | 485.0 | 500.2 | 493.7 | 487.8 | 491.3 |
| 67.5° | 481.5 | 467.9 | 449.5 | 431.1 | 436.3 | 441.6 | 450.0 | 458.3 | 443.1 | 440.7 | 423.8 |
| 70° | 449.7 | 432.3 | 418.9 | 405.3 | 409.3 | 413.1 | 412.1 | 410.9 | 397.2 | 385.0 | 359.9 |
| 72.5° | 406.7 | 395.3 | 381.9 | 368.6 | 370.5 | 372.3 | 372.3 | 372.3 | 357.5 | 330.9 | 302.5 |
| 75° | 359.7 | 349.2 | 337.8 | 326.3 | 327.5 | 328.7 | 327.2 | 325.7 | 310.4 | 276.6 | 250.2 |
| 77.5° | 304.6 | 300.1 | 293.2 | 286.2 | 287.6 | 289.0 | 285.4 | 281.8 | 265.8 | 226.1 | 202.2 |
| 80° | 248.0 | 246.9 | 243.6 | 240.3 | 240.8 | 241.1 | 236.0 | 230.7 | 212.1 | 176.8 | 156.8 |
| 82.5° | 198.6 | 208.2 | 206.0 | 203.9 | 198.0 | 192.1 | 183.9 | 175.8 | 155.8 | 130.5 | 115.3 |
| 85° | 133.0 | 157.8 | 164.2 | 170.7 | 159.8 | 148.8 | 133.9 | 118.9 | 98.7 | 82.9 | 73.4 |
| 87.5° | 73.7 | 91.8 | 100.5 | 109.1 | 103.5 | 98.0 | 82.7 | 67.4 | 42.8 | 34.2 | 29.5 |
| 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: P1208750

CATALOG NUMBER: UPW-SA2-070-727-U-SLL

CANDELA DISTRIBUTION (continued):

| | 330° | 335° | 340° | 345° | 350° | 355° | 360° |
|-------|-------|--------|--------|--------|--------|--------|--------|
| 0° | 889.6 | 889.6 | 889.6 | 889.6 | 889.6 | 889.6 | 889.6 |
| 2.5° | 905.8 | 911.5 | 917.4 | 920.6 | 923.8 | 924.7 | 927.1 |
| 5° | 919.1 | 932.5 | 945.9 | 960.2 | 974.5 | 984.5 | 991.8 |
| 7.5° | 930.2 | 951.8 | 973.4 | 996.2 | 1019.0 | 1046.7 | 1079.5 |
| 10° | 946.2 | 976.2 | 1006.4 | 1045.1 | 1083.9 | 1116.1 | 1143.2 |
| 12.5° | 963.6 | 1001.5 | 1039.6 | 1086.4 | 1133.2 | 1178.7 | 1220.5 |
| 15° | 968.9 | 1017.1 | 1065.3 | 1127.0 | 1188.6 | 1246.0 | 1296.9 |
| 17.5° | 961.6 | 1024.4 | 1087.1 | 1160.2 | 1233.1 | 1306.6 | 1381.1 |
| 20° | 950.9 | 1030.0 | 1108.9 | 1197.6 | 1286.1 | 1365.8 | 1440.9 |
| 22.5° | 928.5 | 1022.1 | 1115.7 | 1218.3 | 1320.9 | 1406.5 | 1485.0 |
| 25° | 898.8 | 1005.4 | 1112.1 | 1231.4 | 1350.7 | 1450.9 | 1544.8 |
| 27.5° | 885.7 | 1009.6 | 1133.4 | 1267.7 | 1402.1 | 1498.6 | 1583.2 |
| 30° | 875.8 | 1011.9 | 1148.0 | 1298.6 | 1449.2 | 1552.1 | 1639.1 |
| 32.5° | 852.8 | 1000.3 | 1147.8 | 1318.7 | 1489.5 | 1601.6 | 1695.4 |
| 35° | 824.6 | 983.8 | 1143.0 | 1337.1 | 1531.3 | 1649.5 | 1741.7 |
| 37.5° | 787.9 | 959.3 | 1130.6 | 1351.4 | 1572.3 | 1712.7 | 1822.9 |
| 40° | 749.1 | 935.5 | 1122.0 | 1383.9 | 1645.8 | 1814.7 | 1935.9 |
| 42.5° | 715.9 | 915.8 | 1115.7 | 1414.8 | 1713.9 | 1926.5 | 2093.5 |
| 45° | 694.1 | 900.0 | 1105.9 | 1457.2 | 1808.5 | 2107.1 | 2363.7 |
| 47.5° | 678.3 | 883.6 | 1088.8 | 1524.7 | 1960.6 | 2409.6 | 2815.9 |
| 50° | 671.2 | 877.6 | 1084.1 | 1644.1 | 2204.2 | 2842.6 | 3413.9 |
| 52.5° | 654.9 | 862.5 | 1069.9 | 1735.6 | 2401.2 | 3220.1 | 3963.9 |
| 55° | 625.5 | 831.3 | 1037.1 | 1759.5 | 2481.8 | 3473.7 | 4441.1 |
| 57.5° | 607.8 | 784.8 | 961.6 | 1647.5 | 2333.4 | 3510.7 | 4785.0 |
| 60° | 595.2 | 697.5 | 799.9 | 1403.6 | 2007.2 | 3292.3 | 4726.1 |
| 62.5° | 549.8 | 598.4 | 646.9 | 1166.4 | 1686.0 | 2931.1 | 4342.0 |
| 65° | 494.8 | 504.4 | 514.0 | 949.0 | 1383.9 | 2530.0 | 3864.4 |
| 67.5° | 406.8 | 398.2 | 389.5 | 746.6 | 1103.7 | 2108.1 | 3315.3 |
| 70° | 334.8 | 323.0 | 311.2 | 580.0 | 848.8 | 1727.4 | 2843.0 |
| 72.5° | 274.1 | 263.8 | 253.6 | 437.6 | 621.6 | 1332.9 | 2279.5 |
| 75° | 223.9 | 216.4 | 208.8 | 323.5 | 438.3 | 959.3 | 1677.1 |
| 77.5° | 178.3 | 174.6 | 170.9 | 238.3 | 305.7 | 660.7 | 1162.9 |
| 80° | 136.9 | 134.4 | 131.8 | 164.6 | 197.3 | 380.3 | 641.2 |
| 82.5° | 100.2 | 98.7 | 97.3 | 110.8 | 124.1 | 202.8 | 317.3 |
| 85° | 63.9 | 63.2 | 62.4 | 66.0 | 69.7 | 91.7 | 124.8 |
| 87.5° | 24.6 | 25.5 | 26.4 | 27.8 | 29.0 | 34.9 | 45.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)