

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: INVUE

Report Number: P367822

Luminaire Tested: **MSA-SA3B-730-U-SLR**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367822
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-24)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA3B-730-U-SLR
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11468 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

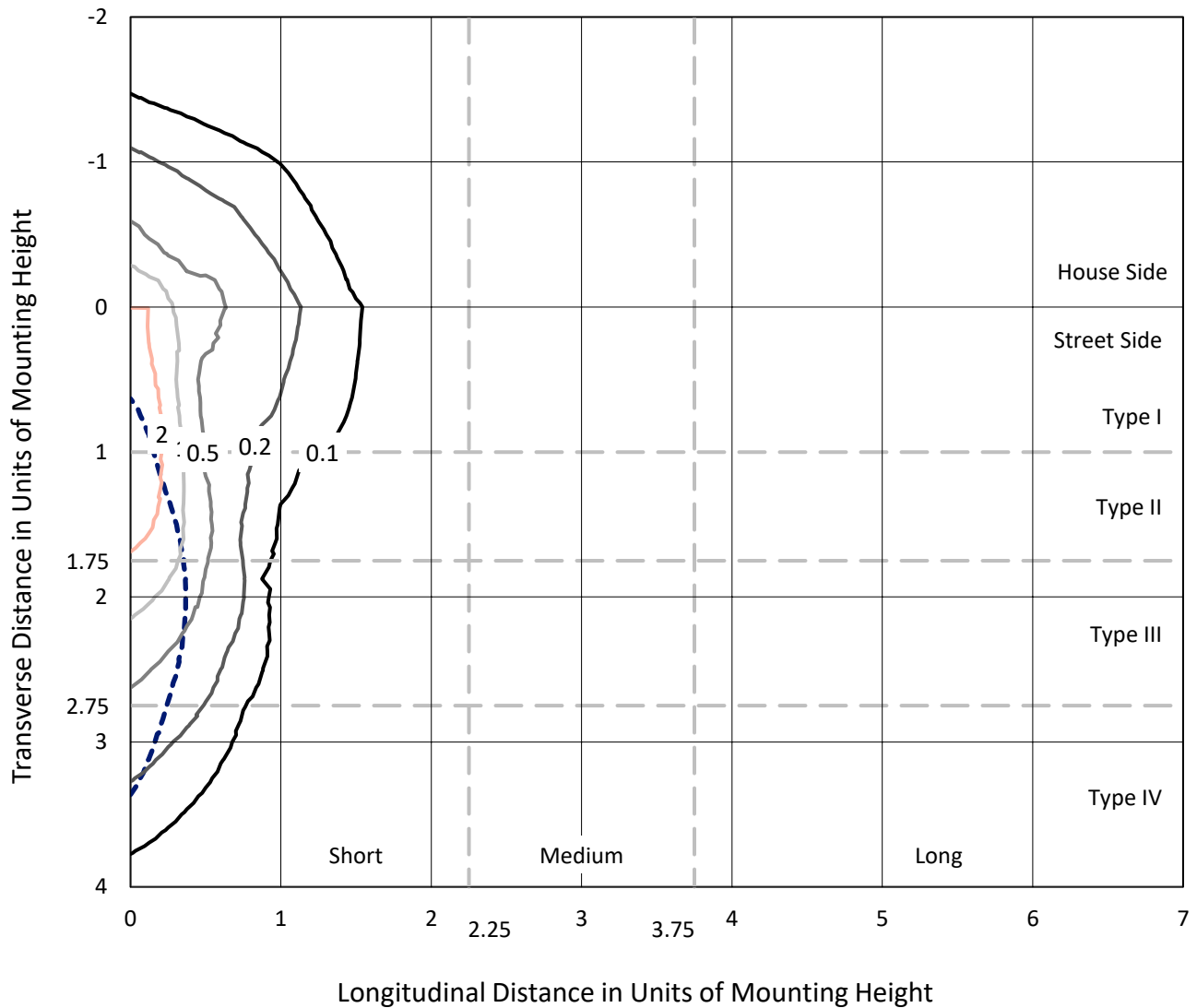
Input Watts (W): 126
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

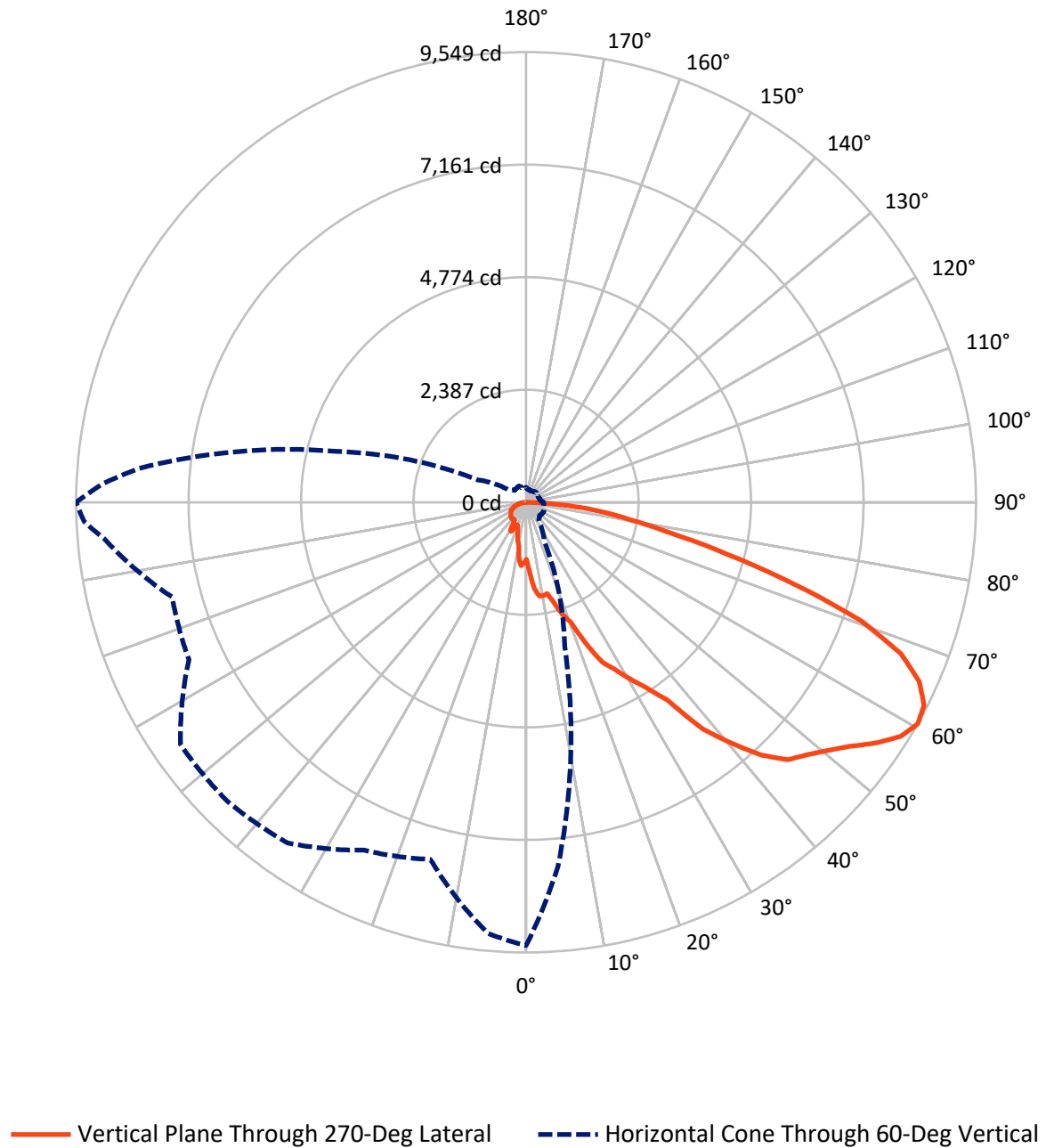
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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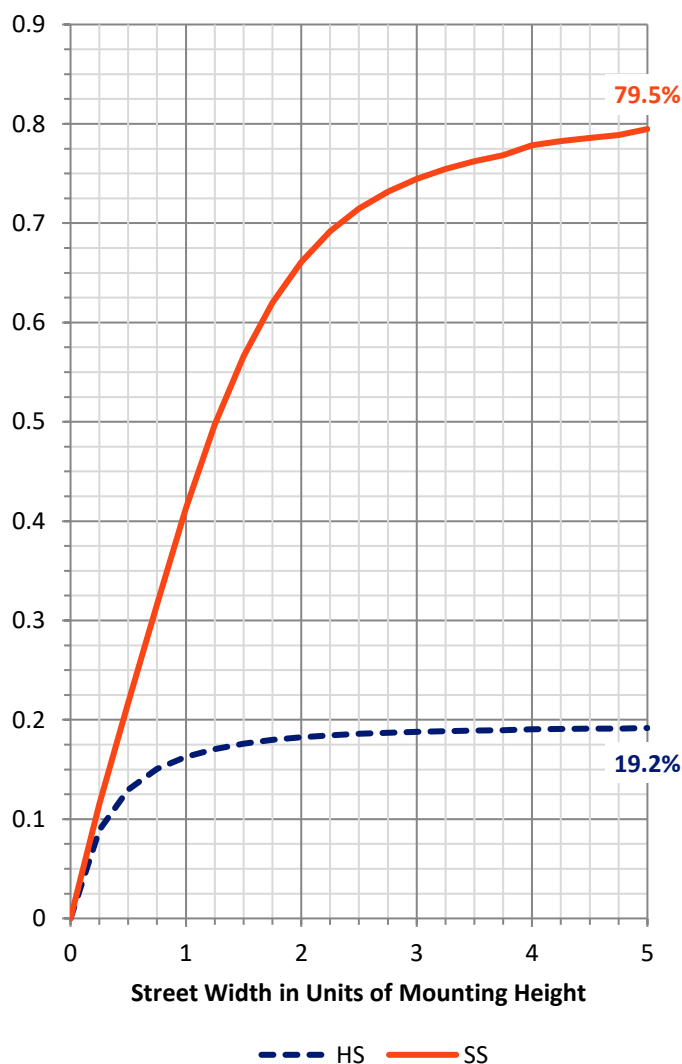
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2221.1 | 0.0 | 2221.1 |
| | % Fixture | 19.4 | 0.0 | 19.4 |
| Street Side | Lumens | 9246.9 | 0.0 | 9246.9 |
| | % Fixture | 80.6 | 0.0 | 80.6 |
| Total | Lumens | 11468.0 | 0.0 | 11468.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 138.7 | 1.2 |
| 10°-20° | 402.9 | 3.5 |
| 20°-30° | 711.3 | 6.2 |
| 30°-40° | 1107.9 | 9.7 |
| 40°-50° | 1824.0 | 15.9 |
| 50°-60° | 2603.4 | 22.7 |
| 60°-70° | 2760.6 | 24.1 |
| 70°-80° | 1524.7 | 13.3 |
| 80°-90° | 394.5 | 3.4 |
| 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° | 11468.0 | 100.0 |
| 0°-180° | 11468.0 | 100.0 |

Coefficient of Utilization



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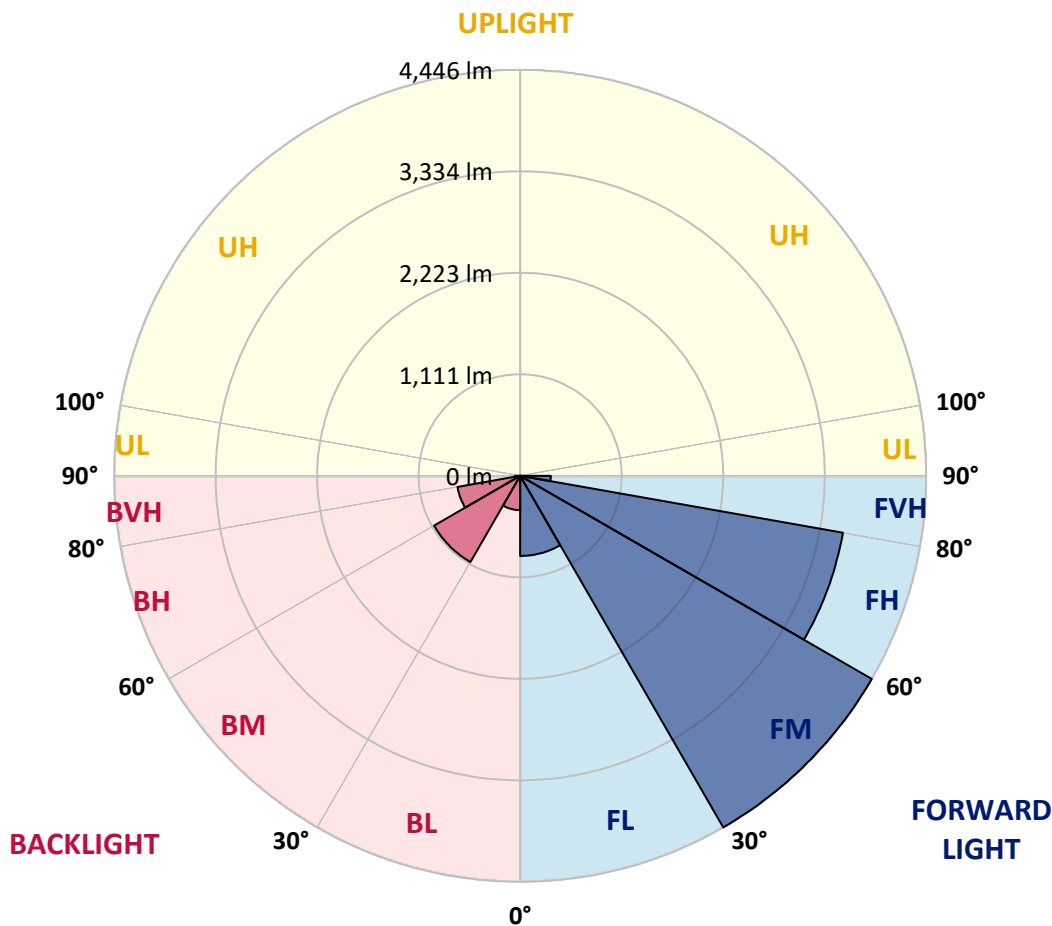
CATALOG NUMBER: MSA-SA3B-730-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 877.5 | 7.7 | | | |
| FM (30°-60°) | 4445.7 | 38.8 | | | |
| FH (60°-80°) | 3588.4 | 31.3 | | | G2/5000 |
| FVH (80°-90°) | 335.3 | 2.9 | | | G3/500 |
| BL (0°-30°) | 375.5 | 3.3 | B1/500 | | |
| BM (30°-60°) | 1089.5 | 9.5 | B2/2500 | | |
| BH (60°-80°) | 696.9 | 6.1 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 59.2 | 0.5 | | | 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 IV Short





REPORT NUMBER: P367822

CATALOG NUMBER: MSA-SA3B-730-U-SLR

CANDELA DISTRIBUTION (FULL):

| | 0° | 2.5° | 5° | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 25° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 |
| 2.5° | 1619.8 | 1629.8 | 1639.3 | 1620.4 | 1601.4 | 1582.0 | 1563.0 | 1534.7 | 1505.7 | 1477.3 | 1448.4 |
| 5° | 1945.5 | 1908.7 | 1871.4 | 1856.4 | 1841.9 | 1826.9 | 1811.9 | 1797.9 | 1784.0 | 1769.6 | 1755.6 |
| 7.5° | 2047.3 | 1995.0 | 1942.1 | 1919.8 | 1897.6 | 1874.8 | 1852.5 | 1802.4 | 1752.3 | 1701.6 | 1651.5 |
| 10° | 1935.4 | 1880.9 | 1825.8 | 1804.1 | 1781.8 | 1760.1 | 1737.8 | 1676.6 | 1615.9 | 1554.7 | 1493.5 |
| 12.5° | 2025.6 | 1969.9 | 1913.7 | 1844.7 | 1775.7 | 1706.1 | 1637.1 | 1603.1 | 1569.2 | 1534.7 | 1500.7 |
| 15° | 2112.4 | 2037.3 | 1961.6 | 1892.6 | 1823.5 | 1754.0 | 1684.9 | 1617.0 | 1549.1 | 1481.2 | 1413.3 |
| 17.5° | 2429.7 | 2304.5 | 2179.2 | 2054.6 | 1929.3 | 1804.6 | 1679.4 | 1600.9 | 1521.8 | 1443.4 | 1364.3 |
| 20° | 2816.6 | 2642.4 | 2467.6 | 2278.3 | 2088.5 | 1899.2 | 1709.4 | 1610.4 | 1511.8 | 1412.7 | 1313.7 |
| 22.5° | 3276.9 | 3057.1 | 2837.2 | 2598.4 | 2359.6 | 2120.2 | 1881.4 | 1737.8 | 1594.2 | 1450.0 | 1306.4 |
| 25° | 3642.6 | 3431.1 | 3219.6 | 2916.8 | 2614.0 | 2311.2 | 2008.4 | 1845.3 | 1682.2 | 1518.5 | 1355.4 |
| 27.5° | 3997.8 | 3661.0 | 3323.7 | 2976.9 | 2630.7 | 2283.9 | 1937.1 | 1786.3 | 1635.4 | 1484.6 | 1333.7 |
| 30° | 4297.8 | 4030.6 | 3763.4 | 3310.9 | 2858.3 | 2405.2 | 1952.7 | 1767.3 | 1582.0 | 1396.6 | 1211.2 |
| 32.5° | 4737.0 | 4355.7 | 3973.8 | 3501.8 | 3029.8 | 2557.8 | 2085.7 | 1848.6 | 1611.5 | 1374.3 | 1137.2 |
| 35° | 5250.8 | 4854.4 | 4458.1 | 3874.2 | 3290.8 | 2706.9 | 2123.0 | 1872.0 | 1620.4 | 1369.3 | 1117.7 |
| 37.5° | 6208.7 | 5510.2 | 4811.0 | 4173.7 | 3536.3 | 2898.4 | 2261.1 | 1969.4 | 1677.7 | 1385.5 | 1093.8 |
| 40° | 6737.0 | 6091.3 | 5445.6 | 4651.3 | 3856.9 | 3062.1 | 2267.7 | 1969.4 | 1670.5 | 1372.1 | 1073.2 |
| 42.5° | 7441.1 | 6624.6 | 5807.4 | 4948.5 | 4090.2 | 3231.3 | 2372.4 | 2041.7 | 1711.1 | 1379.9 | 1049.3 |
| 45° | 7870.3 | 6960.2 | 6049.5 | 5131.6 | 4213.8 | 3295.9 | 2378.0 | 2042.3 | 1706.7 | 1371.0 | 1035.3 |
| 47.5° | 8147.0 | 7273.0 | 6398.6 | 5410.5 | 4422.5 | 3433.9 | 2445.9 | 2089.6 | 1732.8 | 1376.6 | 1019.8 |
| 50° | 8409.1 | 7543.6 | 6677.4 | 5651.5 | 4626.2 | 3600.3 | 2574.5 | 2185.4 | 1796.3 | 1406.6 | 1017.5 |
| 52.5° | 8730.9 | 7933.8 | 7136.1 | 6035.6 | 4934.6 | 3834.1 | 2733.1 | 2309.5 | 1885.9 | 1462.3 | 1038.7 |
| 55° | 9199.0 | 8413.6 | 7627.6 | 6446.4 | 5264.7 | 4083.5 | 2901.8 | 2431.4 | 1961.6 | 1491.2 | 1020.9 |
| 57.5° | 9502.4 | 8705.8 | 7909.3 | 6704.7 | 5500.1 | 4295.0 | 3090.5 | 2569.4 | 2048.4 | 1526.9 | 1005.8 |
| 60° | 9401.6 | 8580.0 | 7757.9 | 6609.5 | 5461.2 | 4312.8 | 3164.5 | 2601.7 | 2039.5 | 1476.8 | 914.0 |
| 62.5° | 8956.3 | 8082.9 | 7209.6 | 6180.9 | 5152.8 | 4124.1 | 3095.5 | 2523.2 | 1951.6 | 1379.3 | 807.1 |
| 65° | 8334.0 | 7431.1 | 6527.7 | 5599.8 | 4671.9 | 3743.9 | 2816.0 | 2296.7 | 1776.8 | 1257.4 | 737.5 |
| 67.5° | 7570.3 | 6629.0 | 5687.2 | 4865.6 | 4044.0 | 3221.8 | 2400.2 | 1966.0 | 1532.4 | 1098.2 | 664.1 |
| 70° | 6612.3 | 5687.2 | 4762.0 | 4051.2 | 3340.4 | 2629.6 | 1918.7 | 1592.0 | 1265.8 | 939.0 | 612.3 |
| 72.5° | 5314.8 | 4516.6 | 3718.3 | 3158.9 | 2599.5 | 2040.1 | 1480.7 | 1253.5 | 1027.0 | 799.9 | 572.8 |
| 75° | 3780.1 | 3310.9 | 2841.6 | 2406.3 | 1971.1 | 1535.2 | 1099.9 | 953.0 | 806.0 | 659.1 | 512.1 |
| 77.5° | 2686.3 | 2409.7 | 2133.0 | 1791.8 | 1450.6 | 1109.4 | 768.2 | 681.9 | 596.2 | 509.9 | 423.6 |
| 80° | 1986.1 | 1755.1 | 1524.1 | 1266.9 | 1009.7 | 752.6 | 495.4 | 453.1 | 411.4 | 369.1 | 326.7 |
| 82.5° | 1307.5 | 1203.5 | 1098.8 | 895.1 | 691.3 | 487.6 | 283.9 | 268.3 | 252.7 | 237.1 | 221.5 |
| 85° | 585.6 | 618.4 | 650.7 | 526.0 | 400.8 | 276.1 | 150.8 | 143.6 | 136.4 | 129.1 | 121.9 |
| 87.5° | 56.2 | 82.9 | 109.7 | 94.1 | 77.9 | 62.3 | 46.2 | 45.6 | 45.6 | 45.1 | 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 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P367822
 CATALOG NUMBER: MSA-SA3B-730-U-SLR

CANDELA DISTRIBUTION (continued):

| | 0° | 2.5° | 5° | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 25° |
|--------|-----|------|-----|------|-----|-------|-----|-------|-----|-------|-----|
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 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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CANDELA DISTRIBUTION (continued):

| | 27.5° | 30° | 32.5° | 35° | 37.5° | 40° | 42.5° | 45° | 47.5° | 50° | 52.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 |
| 2.5° | 1456.2 | 1464.0 | 1471.8 | 1479.5 | 1471.2 | 1462.8 | 1453.9 | 1445.6 | 1435.0 | 1424.4 | 1413.3 |
| 5° | 1732.3 | 1708.3 | 1684.9 | 1661.0 | 1625.4 | 1589.8 | 1553.6 | 1518.0 | 1513.5 | 1508.5 | 1504.0 |
| 7.5° | 1607.6 | 1564.2 | 1520.2 | 1476.2 | 1420.5 | 1365.4 | 1309.8 | 1254.1 | 1237.4 | 1220.7 | 1204.0 |
| 10° | 1464.0 | 1433.9 | 1404.4 | 1374.3 | 1339.8 | 1305.3 | 1270.2 | 1235.7 | 1190.1 | 1143.9 | 1098.2 |
| 12.5° | 1451.7 | 1402.7 | 1353.2 | 1304.2 | 1283.1 | 1261.9 | 1240.7 | 1219.6 | 1179.5 | 1139.4 | 1098.8 |
| 15° | 1373.8 | 1333.7 | 1294.2 | 1254.1 | 1223.5 | 1192.9 | 1162.3 | 1131.6 | 1099.4 | 1066.5 | 1034.2 |
| 17.5° | 1318.7 | 1273.0 | 1227.4 | 1181.7 | 1146.7 | 1111.6 | 1076.0 | 1040.9 | 1001.9 | 962.4 | 923.5 |
| 20° | 1261.3 | 1209.6 | 1157.3 | 1104.9 | 1060.4 | 1016.4 | 971.9 | 927.4 | 884.5 | 842.2 | 799.3 |
| 22.5° | 1238.0 | 1169.5 | 1101.0 | 1032.6 | 985.8 | 938.5 | 891.7 | 844.4 | 804.9 | 765.4 | 725.9 |
| 25° | 1273.6 | 1192.3 | 1110.5 | 1028.7 | 965.8 | 902.3 | 839.4 | 776.0 | 743.1 | 710.3 | 676.9 |
| 27.5° | 1231.8 | 1129.4 | 1027.6 | 925.1 | 857.8 | 789.9 | 722.5 | 654.6 | 649.6 | 644.6 | 639.0 |
| 30° | 1103.8 | 996.4 | 889.0 | 781.5 | 719.7 | 657.4 | 595.6 | 533.3 | 521.6 | 509.3 | 497.6 |
| 32.5° | 1027.6 | 917.9 | 808.2 | 698.6 | 643.5 | 587.8 | 532.7 | 477.0 | 463.7 | 450.3 | 437.0 |
| 35° | 998.6 | 879.5 | 760.4 | 641.2 | 593.9 | 546.6 | 499.3 | 452.0 | 442.5 | 433.6 | 424.2 |
| 37.5° | 975.2 | 857.2 | 738.7 | 620.1 | 574.5 | 528.8 | 482.6 | 437.0 | 429.7 | 422.5 | 415.3 |
| 40° | 953.0 | 833.3 | 713.1 | 592.8 | 552.2 | 512.1 | 471.5 | 430.8 | 426.4 | 421.9 | 416.9 |
| 42.5° | 932.9 | 816.6 | 699.7 | 583.4 | 547.2 | 511.6 | 475.4 | 439.2 | 434.7 | 430.3 | 425.8 |
| 45° | 921.8 | 808.2 | 694.7 | 581.1 | 555.0 | 528.8 | 502.1 | 475.9 | 465.3 | 454.8 | 443.6 |
| 47.5° | 913.4 | 807.1 | 700.8 | 594.5 | 567.2 | 539.9 | 512.7 | 485.4 | 475.9 | 466.5 | 456.4 |
| 50° | 915.1 | 813.2 | 710.8 | 608.4 | 575.6 | 542.2 | 509.3 | 475.9 | 474.8 | 473.7 | 472.6 |
| 52.5° | 930.1 | 822.2 | 713.6 | 605.1 | 569.4 | 533.8 | 497.6 | 462.0 | 469.2 | 475.9 | 483.2 |
| 55° | 908.4 | 796.0 | 683.0 | 570.6 | 536.6 | 503.2 | 469.2 | 435.3 | 444.8 | 453.7 | 463.1 |
| 57.5° | 883.9 | 762.0 | 640.1 | 518.2 | 492.6 | 467.0 | 440.9 | 415.3 | 425.3 | 435.8 | 445.9 |
| 60° | 802.7 | 691.3 | 580.0 | 468.7 | 451.4 | 434.2 | 416.9 | 399.7 | 404.1 | 408.6 | 413.0 |
| 62.5° | 713.6 | 619.5 | 526.0 | 432.0 | 418.6 | 404.7 | 391.3 | 377.4 | 377.4 | 378.0 | 378.0 |
| 65° | 656.8 | 576.1 | 495.4 | 414.7 | 399.7 | 384.6 | 369.1 | 354.0 | 351.8 | 349.6 | 347.3 |
| 67.5° | 600.1 | 536.6 | 472.6 | 408.6 | 386.9 | 365.7 | 344.0 | 322.3 | 319.5 | 317.3 | 314.5 |
| 70° | 555.5 | 498.7 | 442.0 | 385.2 | 360.7 | 336.8 | 312.3 | 287.8 | 285.6 | 283.9 | 281.7 |
| 72.5° | 519.3 | 466.5 | 413.0 | 359.6 | 334.0 | 307.8 | 282.2 | 256.1 | 254.4 | 252.7 | 250.5 |
| 75° | 464.8 | 418.0 | 370.7 | 323.4 | 298.4 | 273.9 | 248.8 | 223.8 | 221.5 | 219.9 | 217.6 |
| 77.5° | 384.6 | 345.1 | 306.2 | 266.6 | 247.1 | 228.2 | 208.7 | 189.3 | 188.1 | 187.0 | 185.4 |
| 80° | 296.1 | 265.5 | 234.3 | 203.7 | 190.9 | 177.6 | 164.8 | 151.4 | 150.8 | 150.3 | 149.2 |
| 82.5° | 203.2 | 184.8 | 166.4 | 148.1 | 138.6 | 128.6 | 119.1 | 109.1 | 109.7 | 110.2 | 110.8 |
| 85° | 115.8 | 109.1 | 103.0 | 96.3 | 88.5 | 81.3 | 73.5 | 65.7 | 67.4 | 69.0 | 70.1 |
| 87.5° | 42.3 | 40.1 | 37.9 | 35.6 | 31.7 | 28.4 | 24.5 | 20.6 | 21.7 | 23.4 | 24.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P367822
 CATALOG NUMBER: MSA-SA3B-730-U-SLR

CANDELA DISTRIBUTION (continued):

| | 27.5° | 30° | 32.5° | 35° | 37.5° | 40° | 42.5° | 45° | 47.5° | 50° | 52.5° |
|--------|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P367822
 CATALOG NUMBER: MSA-SA3B-730-U-SLR

CANDELA DISTRIBUTION (continued):

| | 55° | 57.5° | 60° | 62.5° | 65° | 67.5° | 70° | 72.5° | 75° | 77.5° | 80° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 |
| 2.5° | 1402.7 | 1386.0 | 1369.3 | 1352.6 | 1335.9 | 1301.4 | 1267.5 | 1233.0 | 1198.4 | 1219.6 | 1241.3 |
| 5° | 1499.0 | 1470.6 | 1441.7 | 1413.3 | 1384.4 | 1368.2 | 1352.1 | 1335.9 | 1319.8 | 1328.1 | 1337.0 |
| 7.5° | 1187.3 | 1170.6 | 1153.4 | 1136.7 | 1119.4 | 1112.2 | 1105.5 | 1098.2 | 1091.0 | 1111.6 | 1132.2 |
| 10° | 1052.0 | 1028.7 | 1005.3 | 981.4 | 958.0 | 944.1 | 930.1 | 916.2 | 902.3 | 907.9 | 913.4 |
| 12.5° | 1058.7 | 1024.2 | 989.7 | 955.2 | 920.7 | 900.1 | 879.5 | 858.9 | 838.3 | 843.3 | 848.3 |
| 15° | 1001.4 | 965.8 | 930.1 | 894.5 | 858.9 | 835.0 | 810.5 | 786.5 | 762.0 | 753.7 | 744.8 |
| 17.5° | 883.9 | 845.0 | 806.0 | 767.0 | 728.1 | 711.9 | 695.8 | 679.7 | 663.5 | 654.6 | 645.7 |
| 20° | 756.5 | 720.3 | 684.1 | 647.9 | 611.7 | 600.6 | 589.5 | 577.8 | 566.7 | 561.1 | 555.0 |
| 22.5° | 686.3 | 664.1 | 641.2 | 619.0 | 596.2 | 583.4 | 571.1 | 558.3 | 545.5 | 539.4 | 532.7 |
| 25° | 644.0 | 648.5 | 653.5 | 657.9 | 662.4 | 656.8 | 650.7 | 645.1 | 639.0 | 641.2 | 642.9 |
| 27.5° | 634.0 | 643.5 | 653.5 | 663.0 | 672.4 | 677.4 | 682.4 | 687.4 | 692.5 | 694.1 | 695.8 |
| 30° | 485.4 | 490.4 | 494.9 | 499.9 | 504.3 | 518.2 | 532.1 | 545.5 | 559.4 | 581.1 | 603.4 |
| 32.5° | 423.6 | 421.9 | 420.3 | 418.0 | 416.4 | 419.7 | 423.0 | 425.8 | 429.2 | 437.0 | 445.3 |
| 35° | 414.7 | 410.8 | 406.3 | 402.4 | 398.0 | 399.7 | 401.3 | 403.0 | 404.7 | 410.8 | 416.9 |
| 37.5° | 408.0 | 406.3 | 405.2 | 403.6 | 401.9 | 405.8 | 409.1 | 413.0 | 416.4 | 421.4 | 426.4 |
| 40° | 412.5 | 411.9 | 411.4 | 410.2 | 409.7 | 411.9 | 414.1 | 416.4 | 418.6 | 425.3 | 432.0 |
| 42.5° | 421.4 | 421.4 | 420.8 | 420.8 | 420.3 | 422.5 | 424.2 | 426.4 | 428.1 | 432.0 | 435.8 |
| 45° | 433.1 | 432.0 | 431.4 | 430.3 | 429.2 | 428.6 | 428.6 | 428.1 | 427.5 | 429.7 | 432.5 |
| 47.5° | 447.0 | 443.1 | 438.6 | 434.7 | 430.3 | 429.2 | 427.5 | 426.4 | 424.7 | 425.8 | 426.9 |
| 50° | 471.5 | 460.9 | 450.9 | 440.3 | 429.7 | 426.9 | 424.2 | 421.4 | 418.6 | 418.0 | 418.0 |
| 52.5° | 489.8 | 474.3 | 458.7 | 443.1 | 427.5 | 422.5 | 417.5 | 412.5 | 407.5 | 406.3 | 405.8 |
| 55° | 472.0 | 460.3 | 449.2 | 437.5 | 425.8 | 418.6 | 410.8 | 403.6 | 395.8 | 394.1 | 392.4 |
| 57.5° | 455.9 | 448.7 | 441.4 | 434.2 | 426.9 | 419.7 | 411.9 | 404.7 | 396.9 | 393.0 | 389.1 |
| 60° | 417.5 | 417.5 | 418.0 | 418.0 | 418.0 | 410.2 | 402.4 | 394.7 | 386.9 | 383.0 | 379.6 |
| 62.5° | 378.0 | 384.1 | 389.6 | 395.8 | 401.3 | 390.8 | 379.6 | 369.1 | 357.9 | 355.1 | 352.9 |
| 65° | 345.1 | 346.8 | 349.0 | 350.7 | 352.4 | 344.0 | 335.7 | 327.3 | 319.0 | 317.3 | 315.1 |
| 67.5° | 311.7 | 311.2 | 310.6 | 309.5 | 308.9 | 303.9 | 298.4 | 293.3 | 287.8 | 285.6 | 283.3 |
| 70° | 279.4 | 278.9 | 278.3 | 277.2 | 276.6 | 272.2 | 267.7 | 263.3 | 258.8 | 257.2 | 255.5 |
| 72.5° | 248.8 | 248.3 | 247.1 | 246.6 | 245.5 | 241.6 | 238.2 | 234.3 | 230.4 | 228.2 | 226.0 |
| 75° | 215.4 | 214.3 | 213.2 | 212.1 | 211.0 | 207.6 | 204.3 | 200.4 | 197.0 | 194.8 | 192.6 |
| 77.5° | 184.2 | 182.6 | 180.9 | 178.7 | 177.0 | 174.2 | 170.9 | 168.1 | 164.8 | 162.0 | 159.8 |
| 80° | 148.6 | 147.5 | 146.4 | 144.7 | 143.6 | 140.8 | 138.0 | 134.7 | 131.9 | 128.6 | 125.8 |
| 82.5° | 111.3 | 110.8 | 109.7 | 109.1 | 108.0 | 105.2 | 102.4 | 99.6 | 96.9 | 93.5 | 90.2 |
| 85° | 71.8 | 71.2 | 70.7 | 70.1 | 69.6 | 67.4 | 65.7 | 63.5 | 61.2 | 57.9 | 55.1 |
| 87.5° | 25.6 | 24.5 | 23.9 | 22.8 | 21.7 | 21.2 | 20.0 | 19.5 | 18.4 | 16.7 | 15.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P367822
 CATALOG NUMBER: MSA-SA3B-730-U-SLR

CANDELA DISTRIBUTION (continued):

| | 55° | 57.5° | 60° | 62.5° | 65° | 67.5° | 70° | 72.5° | 75° | 77.5° | 80° |
|--------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P367822

CATALOG NUMBER: MSA-SA3B-730-U-SLR

CANDELA DISTRIBUTION (continued):

| | 82.5° | 85° | 87.5° | 90° | 92.5° | 95° | 97.5° | 100° | 102.5° | 105° | 107.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 |
| 2.5° | 1262.5 | 1283.6 | 1284.2 | 1284.2 | 1294.2 | 1303.6 | 1284.2 | 1264.7 | 1244.6 | 1225.2 | 1205.7 |
| 5° | 1345.4 | 1353.7 | 1351.5 | 1348.7 | 1336.5 | 1324.2 | 1311.4 | 1298.6 | 1285.8 | 1273.0 | 1273.6 |
| 7.5° | 1152.8 | 1173.4 | 1190.1 | 1206.2 | 1190.6 | 1175.1 | 1166.7 | 1158.4 | 1150.0 | 1141.7 | 1140.6 |
| 10° | 918.5 | 924.0 | 930.7 | 936.8 | 927.4 | 917.3 | 934.0 | 950.7 | 966.9 | 983.6 | 965.2 |
| 12.5° | 853.3 | 858.3 | 846.6 | 834.4 | 830.5 | 826.6 | 822.7 | 818.3 | 814.4 | 809.9 | 807.7 |
| 15° | 736.4 | 727.5 | 718.6 | 709.2 | 706.9 | 704.1 | 701.4 | 698.0 | 695.2 | 691.9 | 681.9 |
| 17.5° | 636.8 | 627.9 | 612.9 | 597.3 | 591.1 | 584.5 | 582.8 | 581.1 | 578.9 | 577.2 | 567.8 |
| 20° | 549.4 | 543.3 | 539.4 | 534.9 | 528.8 | 522.7 | 516.6 | 510.4 | 503.8 | 497.6 | 488.7 |
| 22.5° | 526.6 | 519.9 | 514.9 | 509.3 | 508.2 | 507.1 | 496.0 | 484.3 | 473.1 | 461.5 | 456.4 |
| 25° | 645.1 | 646.8 | 616.2 | 585.0 | 582.2 | 579.5 | 559.4 | 538.8 | 518.8 | 498.2 | 480.9 |
| 27.5° | 696.9 | 698.6 | 697.5 | 696.4 | 687.4 | 678.0 | 644.0 | 609.5 | 575.6 | 541.1 | 516.6 |
| 30° | 625.1 | 646.8 | 655.2 | 663.5 | 657.4 | 650.7 | 615.1 | 580.0 | 544.4 | 508.8 | 492.6 |
| 32.5° | 453.1 | 460.9 | 474.8 | 488.2 | 495.4 | 502.1 | 491.0 | 479.8 | 468.7 | 457.6 | 454.8 |
| 35° | 422.5 | 428.6 | 431.4 | 434.2 | 429.7 | 425.3 | 416.9 | 408.6 | 399.7 | 391.3 | 389.6 |
| 37.5° | 430.8 | 435.8 | 441.4 | 447.0 | 434.7 | 421.9 | 412.5 | 403.6 | 394.1 | 384.6 | 376.8 |
| 40° | 438.6 | 445.3 | 448.7 | 452.0 | 439.7 | 427.5 | 415.8 | 404.7 | 393.0 | 381.3 | 373.5 |
| 42.5° | 439.7 | 443.6 | 449.8 | 455.9 | 438.6 | 420.8 | 410.2 | 399.1 | 388.5 | 377.4 | 369.6 |
| 45° | 434.7 | 437.0 | 442.5 | 448.1 | 428.1 | 407.5 | 398.0 | 388.0 | 378.5 | 368.5 | 361.8 |
| 47.5° | 427.5 | 428.6 | 433.1 | 437.0 | 415.8 | 394.1 | 385.2 | 376.3 | 366.8 | 357.9 | 351.2 |
| 50° | 417.5 | 416.9 | 420.3 | 423.0 | 401.3 | 379.6 | 370.7 | 362.4 | 353.5 | 344.6 | 339.0 |
| 52.5° | 404.7 | 403.6 | 406.9 | 409.7 | 386.9 | 364.0 | 356.2 | 349.0 | 341.2 | 333.4 | 329.0 |
| 55° | 390.2 | 388.5 | 391.3 | 394.1 | 371.8 | 349.0 | 342.3 | 335.1 | 328.4 | 321.2 | 317.3 |
| 57.5° | 384.6 | 380.7 | 382.4 | 384.1 | 359.0 | 334.0 | 327.3 | 320.6 | 313.9 | 307.3 | 304.5 |
| 60° | 375.7 | 371.8 | 373.5 | 374.6 | 347.9 | 320.6 | 314.5 | 307.8 | 301.7 | 295.0 | 292.2 |
| 62.5° | 350.1 | 347.3 | 349.6 | 351.8 | 327.9 | 303.4 | 297.8 | 292.8 | 287.2 | 281.7 | 277.8 |
| 65° | 313.4 | 311.2 | 315.6 | 320.1 | 299.5 | 278.9 | 275.5 | 272.2 | 268.3 | 265.0 | 261.1 |
| 67.5° | 281.1 | 278.9 | 283.3 | 287.8 | 272.8 | 257.7 | 254.4 | 251.0 | 247.7 | 244.4 | 242.1 |
| 70° | 253.8 | 252.2 | 256.1 | 260.0 | 247.1 | 234.3 | 231.0 | 228.2 | 224.9 | 221.5 | 219.9 |
| 72.5° | 223.2 | 221.0 | 226.0 | 230.4 | 219.9 | 208.7 | 206.0 | 202.6 | 199.8 | 196.5 | 195.4 |
| 75° | 190.4 | 188.1 | 192.6 | 196.5 | 189.3 | 181.5 | 178.7 | 175.9 | 173.1 | 170.3 | 169.8 |
| 77.5° | 157.0 | 154.2 | 158.6 | 162.5 | 158.1 | 153.1 | 150.8 | 148.1 | 145.8 | 143.1 | 143.1 |
| 80° | 122.5 | 119.1 | 122.5 | 125.2 | 123.6 | 121.9 | 120.2 | 118.0 | 116.3 | 114.1 | 114.7 |
| 82.5° | 86.8 | 83.5 | 85.2 | 86.8 | 87.9 | 89.1 | 89.1 | 89.1 | 89.1 | 89.1 | 89.1 |
| 85° | 51.8 | 48.4 | 49.0 | 49.5 | 51.2 | 52.9 | 53.4 | 54.0 | 54.6 | 55.1 | 55.7 |
| 87.5° | 13.4 | 11.7 | 10.6 | 8.9 | 10.6 | 11.7 | 12.8 | 13.4 | 14.5 | 15.0 | 15.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P367822
 CATALOG NUMBER: MSA-SA3B-730-U-SLR

CANDELA DISTRIBUTION (continued):

| | 82.5° | 85° | 87.5° | 90° | 92.5° | 95° | 97.5° | 100° | 102.5° | 105° | 107.5° |
|--------|-------|-----|-------|-----|-------|-----|-------|------|--------|------|--------|
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P367822
 CATALOG NUMBER: MSA-SA3B-730-U-SLR

CANDELA DISTRIBUTION (continued):

| | 110° | 112.5° | 115° | 117.5° | 120° | 122.5° | 125° | 127.5° | 130° | 132.5° | 135° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 |
| 2.5° | 1186.2 | 1166.2 | 1146.7 | 1158.9 | 1170.6 | 1182.9 | 1194.5 | 1195.1 | 1195.1 | 1195.7 | 1195.7 |
| 5° | 1274.7 | 1275.3 | 1275.8 | 1264.1 | 1253.0 | 1241.3 | 1229.6 | 1223.5 | 1217.4 | 1210.7 | 1204.6 |
| 7.5° | 1138.9 | 1137.8 | 1136.1 | 1125.0 | 1113.8 | 1102.7 | 1091.6 | 1064.8 | 1037.6 | 1010.9 | 983.6 |
| 10° | 946.3 | 927.9 | 909.0 | 904.5 | 900.6 | 896.2 | 891.7 | 884.5 | 877.8 | 870.6 | 863.3 |
| 12.5° | 805.5 | 803.2 | 801.0 | 789.3 | 777.6 | 765.4 | 753.7 | 753.7 | 753.7 | 753.7 | 753.7 |
| 15° | 671.3 | 661.3 | 650.7 | 645.1 | 639.0 | 633.5 | 627.3 | 624.5 | 621.8 | 619.0 | 616.2 |
| 17.5° | 557.8 | 548.3 | 538.3 | 537.2 | 536.0 | 534.9 | 533.8 | 531.0 | 528.2 | 525.5 | 522.7 |
| 20° | 479.8 | 470.9 | 462.0 | 465.3 | 468.7 | 471.5 | 474.8 | 472.0 | 469.2 | 465.9 | 463.1 |
| 22.5° | 450.9 | 445.9 | 440.3 | 437.5 | 434.7 | 431.4 | 428.6 | 428.6 | 429.2 | 429.2 | 429.2 |
| 25° | 464.2 | 447.0 | 429.7 | 421.4 | 413.0 | 404.1 | 395.8 | 392.4 | 389.6 | 386.3 | 383.0 |
| 27.5° | 492.1 | 467.0 | 442.5 | 428.1 | 413.6 | 399.1 | 384.6 | 378.5 | 371.8 | 365.7 | 359.0 |
| 30° | 475.9 | 459.8 | 443.1 | 426.4 | 409.7 | 393.0 | 376.3 | 368.5 | 360.7 | 352.4 | 344.6 |
| 32.5° | 452.0 | 448.7 | 445.9 | 430.3 | 414.7 | 398.6 | 383.0 | 379.6 | 376.8 | 373.5 | 370.2 |
| 35° | 387.4 | 385.8 | 383.5 | 379.6 | 375.7 | 371.8 | 367.9 | 363.5 | 359.0 | 354.6 | 350.1 |
| 37.5° | 369.6 | 361.8 | 354.0 | 352.4 | 350.7 | 349.0 | 347.3 | 345.7 | 344.0 | 341.8 | 340.1 |
| 40° | 365.7 | 357.9 | 350.1 | 347.3 | 344.6 | 341.2 | 338.4 | 339.0 | 340.1 | 340.7 | 341.2 |
| 42.5° | 361.3 | 353.5 | 345.1 | 342.9 | 340.7 | 338.4 | 336.2 | 336.8 | 337.9 | 338.4 | 339.0 |
| 45° | 355.7 | 349.0 | 342.3 | 338.4 | 335.1 | 331.2 | 327.3 | 330.6 | 334.0 | 336.8 | 340.1 |
| 47.5° | 344.6 | 337.3 | 330.6 | 328.4 | 326.2 | 323.4 | 321.2 | 324.5 | 327.9 | 330.6 | 334.0 |
| 50° | 332.9 | 327.3 | 321.2 | 320.6 | 320.1 | 319.0 | 318.4 | 320.6 | 322.9 | 325.1 | 327.3 |
| 52.5° | 324.0 | 319.5 | 314.5 | 314.5 | 313.9 | 313.9 | 313.4 | 315.6 | 317.8 | 319.5 | 321.7 |
| 55° | 313.9 | 310.0 | 306.2 | 306.7 | 307.8 | 308.4 | 308.9 | 311.2 | 313.9 | 316.2 | 318.4 |
| 57.5° | 301.1 | 298.4 | 295.0 | 297.2 | 298.9 | 301.1 | 302.8 | 304.5 | 306.7 | 308.4 | 310.0 |
| 60° | 288.9 | 286.1 | 282.8 | 285.0 | 287.8 | 290.0 | 292.2 | 293.9 | 295.6 | 297.2 | 298.9 |
| 62.5° | 273.9 | 269.4 | 265.5 | 268.9 | 271.6 | 275.0 | 277.8 | 278.9 | 280.5 | 281.7 | 282.8 |
| 65° | 257.7 | 253.8 | 249.9 | 252.2 | 254.4 | 256.1 | 258.3 | 260.0 | 261.6 | 263.3 | 265.0 |
| 67.5° | 239.4 | 237.1 | 234.3 | 236.0 | 237.7 | 239.4 | 241.0 | 241.6 | 241.6 | 242.1 | 242.1 |
| 70° | 217.6 | 216.0 | 213.7 | 214.9 | 216.5 | 217.6 | 218.8 | 218.8 | 218.8 | 218.2 | 218.2 |
| 72.5° | 194.8 | 193.7 | 192.6 | 193.2 | 194.3 | 194.8 | 195.4 | 194.8 | 194.3 | 193.7 | 193.2 |
| 75° | 169.2 | 168.7 | 168.1 | 168.7 | 169.8 | 170.3 | 170.9 | 170.3 | 169.2 | 168.7 | 167.5 |
| 77.5° | 143.6 | 143.6 | 143.6 | 143.6 | 144.2 | 144.2 | 144.2 | 143.1 | 141.9 | 140.8 | 139.7 |
| 80° | 115.2 | 115.8 | 116.3 | 116.3 | 116.3 | 116.3 | 116.3 | 115.2 | 114.1 | 112.4 | 111.3 |
| 82.5° | 89.1 | 89.1 | 89.1 | 89.1 | 89.6 | 89.6 | 89.6 | 86.8 | 84.6 | 81.8 | 79.0 |
| 85° | 55.7 | 56.2 | 56.2 | 56.8 | 57.3 | 57.3 | 57.9 | 54.0 | 50.7 | 46.8 | 42.9 |
| 87.5° | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 14.5 | 14.5 | 11.1 | 7.2 | 3.9 | 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 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P367822
 CATALOG NUMBER: MSA-SA3B-730-U-SLR

CANDELA DISTRIBUTION (continued):

| | 110° | 112.5° | 115° | 117.5° | 120° | 122.5° | 125° | 127.5° | 130° | 132.5° | 135° |
|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P367822

CATALOG NUMBER: MSA-SA3B-730-U-SLR

CANDELA DISTRIBUTION (continued):

| | 137.5° | 140° | 142.5° | 145° | 147.5° | 150° | 152.5° | 155° | 157.5° | 160° | 162.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 |
| 2.5° | 1199.0 | 1202.3 | 1205.1 | 1208.5 | 1209.0 | 1209.6 | 1209.6 | 1210.1 | 1198.4 | 1186.8 | 1174.5 |
| 5° | 1212.9 | 1220.7 | 1229.1 | 1236.9 | 1235.2 | 1233.5 | 1231.8 | 1230.2 | 1226.8 | 1224.0 | 1220.7 |
| 7.5° | 977.5 | 971.9 | 965.8 | 959.6 | 964.7 | 969.7 | 974.7 | 979.7 | 981.9 | 984.1 | 985.8 |
| 10° | 849.4 | 835.5 | 821.6 | 807.7 | 799.9 | 791.5 | 783.7 | 775.4 | 774.3 | 773.7 | 772.6 |
| 12.5° | 739.2 | 724.2 | 709.7 | 694.7 | 690.2 | 685.2 | 680.8 | 675.8 | 680.2 | 684.7 | 688.6 |
| 15° | 610.1 | 604.5 | 598.4 | 592.3 | 597.3 | 602.3 | 607.3 | 612.3 | 616.8 | 620.7 | 625.1 |
| 17.5° | 519.9 | 517.7 | 514.9 | 512.1 | 516.6 | 521.6 | 526.0 | 530.5 | 540.5 | 550.5 | 560.5 |
| 20° | 460.9 | 459.2 | 457.0 | 454.8 | 453.1 | 450.9 | 449.2 | 447.0 | 461.5 | 475.4 | 489.8 |
| 22.5° | 425.8 | 422.5 | 419.1 | 415.8 | 416.4 | 416.9 | 416.9 | 417.5 | 429.2 | 441.4 | 453.1 |
| 25° | 381.9 | 380.7 | 379.6 | 378.5 | 381.9 | 385.2 | 388.0 | 391.3 | 401.9 | 412.5 | 422.5 |
| 27.5° | 359.6 | 360.1 | 360.7 | 361.3 | 365.7 | 370.7 | 375.2 | 379.6 | 386.9 | 394.1 | 401.3 |
| 30° | 347.3 | 350.7 | 353.5 | 356.2 | 357.9 | 359.6 | 361.3 | 362.9 | 370.2 | 376.8 | 384.1 |
| 32.5° | 365.7 | 361.3 | 356.2 | 351.8 | 354.0 | 356.8 | 359.0 | 361.3 | 367.9 | 374.6 | 381.3 |
| 35° | 348.5 | 346.2 | 344.6 | 342.3 | 345.1 | 347.9 | 350.1 | 352.9 | 359.0 | 364.6 | 370.7 |
| 37.5° | 339.5 | 339.0 | 338.4 | 337.9 | 339.5 | 341.2 | 342.3 | 344.0 | 349.6 | 355.1 | 360.1 |
| 40° | 339.0 | 336.2 | 334.0 | 331.2 | 332.9 | 334.5 | 335.7 | 337.3 | 344.0 | 350.7 | 357.4 |
| 42.5° | 335.7 | 332.3 | 328.4 | 325.1 | 326.7 | 329.0 | 330.6 | 332.3 | 339.5 | 346.2 | 353.5 |
| 45° | 335.1 | 330.1 | 324.5 | 319.5 | 321.7 | 324.0 | 326.2 | 328.4 | 334.0 | 339.5 | 344.6 |
| 47.5° | 329.0 | 324.0 | 319.0 | 313.9 | 315.1 | 316.2 | 316.7 | 317.8 | 322.9 | 327.3 | 332.3 |
| 50° | 324.0 | 320.1 | 316.7 | 312.8 | 311.2 | 310.0 | 308.4 | 306.7 | 310.6 | 314.5 | 318.4 |
| 52.5° | 317.8 | 313.9 | 309.5 | 305.6 | 303.4 | 301.1 | 298.9 | 296.7 | 300.0 | 302.8 | 306.2 |
| 55° | 313.9 | 308.9 | 304.5 | 299.5 | 296.7 | 293.9 | 291.1 | 288.3 | 290.6 | 292.2 | 294.5 |
| 57.5° | 305.6 | 301.1 | 296.1 | 291.7 | 288.3 | 285.0 | 281.1 | 277.8 | 278.9 | 280.0 | 281.1 |
| 60° | 294.5 | 289.5 | 285.0 | 280.0 | 276.1 | 272.2 | 267.7 | 263.8 | 264.4 | 265.5 | 266.1 |
| 62.5° | 278.3 | 273.9 | 268.9 | 264.4 | 260.0 | 256.1 | 251.6 | 247.1 | 248.3 | 248.8 | 249.9 |
| 65° | 260.5 | 255.5 | 251.0 | 246.0 | 242.1 | 238.2 | 233.8 | 229.9 | 231.0 | 232.1 | 232.7 |
| 67.5° | 238.8 | 234.9 | 231.6 | 227.7 | 224.3 | 220.4 | 217.1 | 213.2 | 213.7 | 214.3 | 214.9 |
| 70° | 215.4 | 212.1 | 209.3 | 206.0 | 203.2 | 200.4 | 197.6 | 194.8 | 194.8 | 195.4 | 195.4 |
| 72.5° | 190.4 | 187.6 | 184.8 | 182.0 | 179.2 | 177.0 | 174.2 | 171.4 | 172.6 | 173.7 | 174.2 |
| 75° | 164.8 | 162.5 | 159.8 | 157.0 | 154.7 | 152.5 | 149.7 | 147.5 | 148.6 | 149.7 | 150.3 |
| 77.5° | 138.0 | 136.4 | 134.1 | 132.5 | 130.3 | 128.0 | 125.2 | 123.0 | 124.1 | 125.2 | 125.8 |
| 80° | 110.2 | 109.1 | 107.4 | 106.3 | 104.1 | 101.9 | 99.6 | 97.4 | 98.0 | 98.0 | 98.5 |
| 82.5° | 79.6 | 80.2 | 80.2 | 80.7 | 79.0 | 76.8 | 75.1 | 72.9 | 72.9 | 72.9 | 72.4 |
| 85° | 44.5 | 46.8 | 48.4 | 50.1 | 48.4 | 46.8 | 45.1 | 43.4 | 42.9 | 42.9 | 42.3 |
| 87.5° | 1.7 | 2.8 | 4.5 | 5.6 | 5.0 | 4.5 | 3.3 | 2.8 | 3.3 | 3.9 | 3.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P367822
 CATALOG NUMBER: MSA-SA3B-730-U-SLR

CANDELA DISTRIBUTION (continued):

| | 137.5° | 140° | 142.5° | 145° | 147.5° | 150° | 152.5° | 155° | 157.5° | 160° | 162.5° |
|--------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P367822

CATALOG NUMBER: MSA-SA3B-730-U-SLR

CANDELA DISTRIBUTION (continued):

| | 165° | 167.5° | 170° | 172.5° | 175° | 177.5° | 180° | 182.5° | 185° | 187.5° | 190° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 |
| 2.5° | 1162.8 | 1172.3 | 1181.7 | 1191.2 | 1200.7 | 1215.1 | 1229.6 | 1244.6 | 1259.7 | 1251.3 | 1242.4 |
| 5° | 1217.4 | 1222.9 | 1229.1 | 1234.6 | 1240.2 | 1256.3 | 1271.9 | 1291.4 | 1310.3 | 1308.1 | 1305.3 |
| 7.5° | 988.0 | 995.8 | 1003.6 | 1010.9 | 1018.6 | 1043.1 | 1067.6 | 1088.2 | 1108.8 | 1106.0 | 1102.7 |
| 10° | 771.5 | 787.6 | 804.3 | 820.5 | 836.6 | 856.7 | 876.1 | 893.4 | 910.7 | 939.6 | 968.0 |
| 12.5° | 693.0 | 718.1 | 743.1 | 768.2 | 793.2 | 807.7 | 821.6 | 843.9 | 866.1 | 881.7 | 897.9 |
| 15° | 629.0 | 652.4 | 675.8 | 699.1 | 722.5 | 723.6 | 724.7 | 748.1 | 771.5 | 784.9 | 797.7 |
| 17.5° | 570.6 | 583.4 | 596.2 | 608.4 | 621.2 | 616.8 | 612.3 | 623.4 | 634.0 | 639.6 | 645.7 |
| 20° | 503.8 | 512.7 | 521.6 | 530.5 | 539.4 | 545.5 | 551.1 | 557.8 | 563.9 | 558.3 | 552.2 |
| 22.5° | 464.8 | 478.2 | 492.1 | 505.4 | 518.8 | 522.7 | 526.0 | 522.1 | 518.2 | 516.6 | 514.9 |
| 25° | 433.1 | 449.2 | 465.9 | 482.0 | 498.2 | 506.0 | 513.8 | 517.1 | 519.9 | 513.8 | 507.7 |
| 27.5° | 408.6 | 428.1 | 447.0 | 466.5 | 485.4 | 499.3 | 513.2 | 517.1 | 520.5 | 516.0 | 511.0 |
| 30° | 390.8 | 411.9 | 433.1 | 454.2 | 475.4 | 496.5 | 517.1 | 535.5 | 553.3 | 551.6 | 550.0 |
| 32.5° | 388.0 | 402.4 | 416.9 | 431.4 | 445.9 | 459.2 | 472.0 | 473.1 | 473.7 | 469.2 | 464.2 |
| 35° | 376.3 | 385.8 | 395.2 | 404.7 | 414.1 | 422.5 | 430.3 | 429.2 | 428.1 | 423.6 | 419.1 |
| 37.5° | 365.7 | 375.2 | 385.2 | 394.7 | 404.1 | 418.6 | 432.5 | 429.7 | 426.4 | 421.9 | 417.5 |
| 40° | 364.0 | 374.6 | 385.2 | 395.2 | 405.8 | 419.1 | 432.5 | 429.7 | 426.9 | 421.4 | 415.8 |
| 42.5° | 360.1 | 370.7 | 380.7 | 391.3 | 401.3 | 417.5 | 433.1 | 428.1 | 422.5 | 418.0 | 413.6 |
| 45° | 350.1 | 359.6 | 369.1 | 378.5 | 388.0 | 405.2 | 422.5 | 416.4 | 410.2 | 408.6 | 406.3 |
| 47.5° | 336.8 | 346.2 | 355.7 | 365.2 | 374.6 | 391.9 | 408.6 | 403.6 | 398.0 | 397.4 | 396.3 |
| 50° | 322.3 | 331.2 | 340.7 | 349.6 | 358.5 | 375.7 | 392.4 | 388.0 | 383.5 | 384.1 | 384.1 |
| 52.5° | 308.9 | 317.3 | 325.1 | 333.4 | 341.2 | 358.5 | 375.2 | 371.8 | 367.9 | 369.1 | 369.6 |
| 55° | 296.1 | 302.8 | 309.5 | 316.2 | 322.9 | 339.5 | 356.2 | 351.2 | 346.2 | 347.9 | 349.6 |
| 57.5° | 282.2 | 287.8 | 293.3 | 298.4 | 303.9 | 320.6 | 336.8 | 331.2 | 325.1 | 327.9 | 330.1 |
| 60° | 266.6 | 271.6 | 276.6 | 281.1 | 286.1 | 301.1 | 315.6 | 310.6 | 305.0 | 308.9 | 312.3 |
| 62.5° | 250.5 | 254.4 | 258.3 | 262.2 | 266.1 | 280.0 | 293.9 | 290.0 | 286.1 | 290.6 | 294.5 |
| 65° | 233.8 | 236.6 | 239.9 | 242.7 | 245.5 | 258.8 | 271.6 | 268.9 | 266.1 | 270.0 | 273.9 |
| 67.5° | 215.4 | 217.6 | 220.4 | 222.7 | 224.9 | 237.1 | 249.4 | 246.6 | 243.3 | 246.6 | 249.4 |
| 70° | 195.4 | 197.6 | 199.3 | 201.5 | 203.2 | 214.3 | 225.4 | 221.5 | 217.1 | 220.4 | 223.2 |
| 72.5° | 175.3 | 176.5 | 178.1 | 179.2 | 180.4 | 188.7 | 197.0 | 193.7 | 190.4 | 193.7 | 196.5 |
| 75° | 151.4 | 152.5 | 153.6 | 154.7 | 155.9 | 163.1 | 169.8 | 165.9 | 161.4 | 164.8 | 168.1 |
| 77.5° | 126.9 | 127.5 | 128.6 | 129.1 | 129.7 | 134.7 | 139.2 | 135.3 | 130.8 | 134.7 | 138.6 |
| 80° | 98.5 | 99.1 | 99.6 | 99.6 | 100.2 | 101.9 | 103.5 | 100.8 | 97.4 | 102.4 | 107.4 |
| 82.5° | 72.4 | 71.8 | 71.8 | 71.2 | 70.7 | 70.7 | 70.1 | 68.5 | 66.2 | 70.7 | 75.1 |
| 85° | 41.7 | 41.2 | 40.1 | 39.5 | 38.4 | 36.7 | 35.1 | 34.5 | 34.0 | 37.9 | 41.7 |
| 87.5° | 4.5 | 3.9 | 2.8 | 2.2 | 1.1 | 0.6 | 0.0 | 0.0 | 0.0 | 2.2 | 5.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P367822
 CATALOG NUMBER: MSA-SA3B-730-U-SLR

CANDELA DISTRIBUTION (continued):

| | 165° | 167.5° | 170° | 172.5° | 175° | 177.5° | 180° | 182.5° | 185° | 187.5° | 190° |
|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P367822

CATALOG NUMBER: MSA-SA3B-730-U-SLR

CANDELA DISTRIBUTION (continued):

| | 192.5° | 195° | 197.5° | 200° | 202.5° | 205° | 207.5° | 210° | 212.5° | 215° | 217.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 |
| 2.5° | 1234.1 | 1225.2 | 1216.8 | 1208.5 | 1200.1 | 1191.8 | 1207.3 | 1222.9 | 1238.5 | 1254.1 | 1268.0 |
| 5° | 1303.1 | 1300.3 | 1293.1 | 1286.4 | 1279.2 | 1271.9 | 1275.8 | 1280.3 | 1284.2 | 1288.1 | 1296.4 |
| 7.5° | 1099.9 | 1096.6 | 1112.2 | 1127.2 | 1142.8 | 1157.8 | 1161.7 | 1165.0 | 1168.9 | 1172.3 | 1170.1 |
| 10° | 996.9 | 1025.3 | 1032.6 | 1039.2 | 1046.5 | 1053.2 | 1064.3 | 1075.4 | 1086.0 | 1097.1 | 1103.3 |
| 12.5° | 913.4 | 929.0 | 954.6 | 980.8 | 1006.4 | 1032.0 | 1048.7 | 1065.4 | 1082.1 | 1098.8 | 1133.3 |
| 15° | 811.0 | 823.8 | 843.3 | 862.8 | 882.3 | 901.8 | 925.7 | 950.2 | 974.1 | 998.1 | 1035.9 |
| 17.5° | 651.3 | 656.8 | 671.3 | 685.8 | 699.7 | 714.2 | 746.5 | 778.2 | 810.5 | 842.2 | 885.6 |
| 20° | 546.6 | 540.5 | 540.5 | 541.1 | 541.1 | 541.1 | 573.3 | 605.1 | 637.4 | 669.1 | 726.4 |
| 22.5° | 512.7 | 511.0 | 504.9 | 498.2 | 492.1 | 485.4 | 502.1 | 519.3 | 536.0 | 552.7 | 599.5 |
| 25° | 501.0 | 494.9 | 487.1 | 479.3 | 471.5 | 463.7 | 474.3 | 484.8 | 495.4 | 506.0 | 542.7 |
| 27.5° | 506.5 | 501.5 | 505.4 | 508.8 | 512.7 | 516.0 | 519.3 | 522.7 | 526.0 | 529.4 | 542.2 |
| 30° | 548.3 | 546.6 | 552.7 | 558.3 | 564.4 | 570.0 | 562.2 | 555.0 | 547.2 | 539.4 | 543.8 |
| 32.5° | 459.8 | 454.8 | 452.5 | 450.3 | 448.1 | 445.9 | 445.3 | 444.8 | 443.6 | 443.1 | 453.1 |
| 35° | 414.7 | 410.2 | 406.9 | 403.6 | 399.7 | 396.3 | 398.0 | 399.1 | 400.8 | 401.9 | 413.0 |
| 37.5° | 413.0 | 408.6 | 404.7 | 400.8 | 396.3 | 392.4 | 394.1 | 396.3 | 398.0 | 399.7 | 408.0 |
| 40° | 410.2 | 404.7 | 402.4 | 400.2 | 398.0 | 395.8 | 396.9 | 398.0 | 398.6 | 399.7 | 405.8 |
| 42.5° | 408.6 | 404.1 | 403.0 | 401.9 | 400.8 | 399.7 | 400.8 | 401.9 | 402.4 | 403.6 | 410.8 |
| 45° | 404.7 | 402.4 | 403.6 | 404.7 | 405.8 | 406.9 | 406.9 | 406.9 | 406.9 | 406.9 | 414.7 |
| 47.5° | 395.8 | 394.7 | 398.0 | 401.3 | 404.7 | 408.0 | 413.6 | 419.1 | 424.2 | 429.7 | 431.4 |
| 50° | 384.6 | 384.6 | 390.2 | 395.8 | 400.8 | 406.3 | 419.7 | 432.5 | 445.9 | 458.7 | 450.3 |
| 52.5° | 370.7 | 371.3 | 379.6 | 387.4 | 395.8 | 403.6 | 415.8 | 428.1 | 439.7 | 452.0 | 439.7 |
| 55° | 350.7 | 352.4 | 362.9 | 372.9 | 383.5 | 393.5 | 403.0 | 412.5 | 421.9 | 431.4 | 418.6 |
| 57.5° | 332.9 | 335.1 | 346.2 | 356.8 | 367.9 | 378.5 | 384.1 | 390.2 | 395.8 | 401.3 | 393.0 |
| 60° | 316.2 | 319.5 | 334.0 | 348.5 | 362.4 | 376.8 | 372.4 | 367.9 | 362.9 | 358.5 | 357.9 |
| 62.5° | 298.9 | 302.8 | 316.2 | 329.5 | 342.3 | 355.7 | 349.0 | 342.3 | 335.1 | 328.4 | 331.2 |
| 65° | 277.2 | 281.1 | 287.2 | 293.3 | 298.9 | 305.0 | 304.5 | 304.5 | 303.9 | 303.4 | 308.9 |
| 67.5° | 252.7 | 255.5 | 259.4 | 262.7 | 266.6 | 270.0 | 272.2 | 275.0 | 277.2 | 279.4 | 286.1 |
| 70° | 226.6 | 229.3 | 233.2 | 236.6 | 240.5 | 243.8 | 246.6 | 249.4 | 251.6 | 254.4 | 261.1 |
| 72.5° | 199.8 | 202.6 | 206.5 | 210.4 | 213.7 | 217.6 | 219.9 | 222.1 | 223.8 | 226.0 | 231.6 |
| 75° | 171.4 | 174.8 | 178.7 | 182.0 | 185.9 | 189.3 | 190.9 | 192.6 | 194.3 | 195.9 | 200.9 |
| 77.5° | 142.5 | 146.4 | 150.3 | 154.2 | 158.1 | 162.0 | 162.5 | 163.1 | 163.7 | 164.2 | 168.7 |
| 80° | 111.9 | 116.9 | 120.8 | 124.7 | 128.6 | 132.5 | 132.5 | 132.5 | 132.5 | 132.5 | 134.7 |
| 82.5° | 79.6 | 84.1 | 88.5 | 92.4 | 96.9 | 100.8 | 100.8 | 100.2 | 100.2 | 99.6 | 99.6 |
| 85° | 45.6 | 49.5 | 52.3 | 55.7 | 58.4 | 61.2 | 61.2 | 61.2 | 60.7 | 60.7 | 59.6 |
| 87.5° | 7.2 | 9.5 | 10.6 | 12.2 | 13.4 | 14.5 | 13.9 | 13.9 | 13.4 | 12.8 | 11.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P367822
 CATALOG NUMBER: MSA-SA3B-730-U-SLR

CANDELA DISTRIBUTION (continued):

| | 192.5° | 195° | 197.5° | 200° | 202.5° | 205° | 207.5° | 210° | 212.5° | 215° | 217.5° |
|--------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P367822

CATALOG NUMBER: MSA-SA3B-730-U-SLR

CANDELA DISTRIBUTION (continued):

| | 220° | 222.5° | 225° | 227.5° | 230° | 232.5° | 235° | 237.5° | 240° | 242.5° | 245° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 |
| 2.5° | 1281.9 | 1295.9 | 1309.8 | 1307.5 | 1305.3 | 1303.1 | 1300.9 | 1309.2 | 1317.0 | 1325.4 | 1333.1 |
| 5° | 1304.2 | 1312.6 | 1320.3 | 1326.5 | 1332.6 | 1338.7 | 1344.8 | 1373.2 | 1401.1 | 1429.4 | 1457.3 |
| 7.5° | 1167.8 | 1165.0 | 1162.8 | 1189.0 | 1215.7 | 1241.9 | 1268.0 | 1304.2 | 1340.4 | 1376.6 | 1412.7 |
| 10° | 1109.4 | 1115.5 | 1121.6 | 1132.2 | 1143.3 | 1153.9 | 1164.5 | 1200.1 | 1235.7 | 1271.4 | 1307.0 |
| 12.5° | 1167.3 | 1201.8 | 1235.7 | 1244.1 | 1253.0 | 1261.3 | 1269.7 | 1276.9 | 1284.2 | 1290.8 | 1298.1 |
| 15° | 1073.8 | 1111.6 | 1149.5 | 1171.2 | 1192.9 | 1214.0 | 1235.7 | 1290.3 | 1344.3 | 1398.8 | 1452.8 |
| 17.5° | 928.5 | 971.9 | 1014.8 | 1068.2 | 1121.6 | 1175.1 | 1228.5 | 1278.6 | 1328.7 | 1378.2 | 1428.3 |
| 20° | 783.7 | 840.5 | 897.9 | 956.3 | 1014.2 | 1072.6 | 1130.5 | 1179.5 | 1228.5 | 1276.9 | 1325.9 |
| 22.5° | 645.7 | 692.5 | 738.7 | 809.9 | 880.6 | 951.9 | 1022.5 | 1113.8 | 1204.6 | 1295.9 | 1386.6 |
| 25° | 578.9 | 615.6 | 651.8 | 725.3 | 798.8 | 871.7 | 945.2 | 1063.7 | 1181.7 | 1300.3 | 1418.3 |
| 27.5° | 555.5 | 568.3 | 581.1 | 647.9 | 714.2 | 781.0 | 847.2 | 975.2 | 1103.3 | 1230.7 | 1358.8 |
| 30° | 548.3 | 552.7 | 557.2 | 609.5 | 661.8 | 714.2 | 766.5 | 892.8 | 1019.8 | 1146.1 | 1272.5 |
| 32.5° | 462.6 | 472.6 | 482.0 | 533.3 | 583.9 | 635.1 | 685.8 | 813.2 | 940.2 | 1067.6 | 1194.5 |
| 35° | 424.2 | 435.3 | 446.4 | 496.5 | 546.6 | 596.2 | 646.3 | 780.4 | 915.1 | 1049.3 | 1183.4 |
| 37.5° | 416.4 | 424.7 | 433.1 | 489.8 | 546.6 | 603.4 | 660.2 | 796.0 | 931.8 | 1067.6 | 1203.5 |
| 40° | 412.5 | 418.6 | 424.7 | 479.8 | 535.5 | 590.6 | 645.7 | 788.2 | 930.1 | 1072.6 | 1214.6 |
| 42.5° | 417.5 | 424.7 | 431.4 | 481.5 | 531.0 | 581.1 | 630.7 | 778.2 | 925.1 | 1072.6 | 1219.6 |
| 45° | 421.9 | 429.7 | 437.0 | 483.7 | 530.5 | 577.2 | 624.0 | 781.5 | 938.5 | 1096.0 | 1253.0 |
| 47.5° | 432.5 | 434.2 | 435.3 | 475.9 | 516.0 | 556.6 | 596.7 | 757.0 | 917.3 | 1077.1 | 1237.4 |
| 50° | 441.4 | 433.1 | 424.2 | 466.5 | 508.2 | 550.5 | 592.3 | 744.2 | 896.2 | 1047.6 | 1199.6 |
| 52.5° | 427.5 | 414.7 | 402.4 | 448.1 | 493.7 | 538.8 | 584.5 | 736.4 | 889.0 | 1040.9 | 1192.9 |
| 55° | 406.3 | 393.5 | 380.7 | 426.9 | 473.1 | 519.3 | 565.5 | 717.0 | 868.9 | 1020.3 | 1171.7 |
| 57.5° | 385.2 | 376.8 | 368.5 | 406.3 | 444.8 | 482.6 | 520.5 | 684.7 | 848.3 | 1012.5 | 1176.2 |
| 60° | 357.4 | 356.2 | 355.7 | 385.2 | 415.3 | 444.8 | 474.3 | 635.1 | 795.4 | 956.3 | 1116.6 |
| 62.5° | 333.4 | 336.2 | 338.4 | 362.4 | 386.3 | 409.7 | 433.6 | 588.9 | 744.8 | 900.1 | 1055.4 |
| 65° | 315.1 | 320.6 | 326.2 | 353.5 | 380.7 | 407.5 | 434.7 | 565.0 | 695.2 | 825.5 | 955.7 |
| 67.5° | 292.8 | 299.5 | 306.2 | 341.8 | 377.4 | 413.0 | 448.7 | 556.1 | 663.5 | 770.9 | 878.4 |
| 70° | 267.2 | 273.9 | 280.0 | 325.6 | 370.7 | 416.4 | 461.5 | 556.6 | 652.4 | 747.6 | 842.8 |
| 72.5° | 237.1 | 242.7 | 248.3 | 297.2 | 346.2 | 395.2 | 444.2 | 524.9 | 605.6 | 685.8 | 766.5 |
| 75° | 206.5 | 211.5 | 216.5 | 258.8 | 301.1 | 343.4 | 385.8 | 448.1 | 509.9 | 572.2 | 634.0 |
| 77.5° | 172.6 | 177.0 | 180.9 | 209.3 | 237.7 | 266.1 | 294.5 | 342.3 | 389.6 | 437.5 | 484.8 |
| 80° | 136.9 | 139.2 | 141.4 | 158.1 | 174.2 | 190.9 | 207.1 | 238.8 | 270.5 | 301.7 | 333.4 |
| 82.5° | 100.2 | 100.2 | 100.2 | 110.8 | 121.9 | 132.5 | 143.1 | 159.2 | 174.8 | 190.9 | 206.5 |
| 85° | 58.4 | 56.8 | 55.7 | 62.9 | 70.1 | 77.4 | 84.6 | 91.3 | 98.0 | 104.6 | 111.3 |
| 87.5° | 9.5 | 7.2 | 5.6 | 10.0 | 14.5 | 18.9 | 23.4 | 25.6 | 28.4 | 30.6 | 32.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P367822
 CATALOG NUMBER: MSA-SA3B-730-U-SLR

CANDELA DISTRIBUTION (continued):

| | 220° | 222.5° | 225° | 227.5° | 230° | 232.5° | 235° | 237.5° | 240° | 242.5° | 245° |
|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P367822

CATALOG NUMBER: MSA-SA3B-730-U-SLR

CANDELA DISTRIBUTION (continued):

| | 247.5° | 250° | 252.5° | 255° | 257.5° | 260° | 262.5° | 265° | 267.5° | 270° | 272.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 |
| 2.5° | 1314.2 | 1295.9 | 1276.9 | 1258.0 | 1285.8 | 1313.7 | 1341.5 | 1369.3 | 1443.4 | 1487.3 | 1490.1 |
| 5° | 1480.7 | 1504.0 | 1527.4 | 1550.8 | 1574.2 | 1597.6 | 1620.4 | 1643.8 | 1764.0 | 1838.0 | 1851.9 |
| 7.5° | 1451.2 | 1490.1 | 1528.5 | 1566.9 | 1633.2 | 1699.4 | 1765.7 | 1831.9 | 1933.8 | 2007.2 | 2055.7 |
| 10° | 1354.9 | 1402.7 | 1450.6 | 1498.5 | 1577.0 | 1656.0 | 1734.5 | 1813.0 | 1921.0 | 2017.8 | 2064.0 |
| 12.5° | 1374.3 | 1450.6 | 1526.3 | 1602.6 | 1670.5 | 1738.9 | 1806.8 | 1874.8 | 1949.3 | 1986.1 | 2070.1 |
| 15° | 1505.7 | 1558.6 | 1611.5 | 1664.3 | 1766.8 | 1868.6 | 1971.1 | 2072.9 | 2115.2 | 2199.3 | 2275.0 |
| 17.5° | 1525.7 | 1622.6 | 1720.0 | 1816.9 | 1942.1 | 2067.4 | 2192.6 | 2317.8 | 2396.3 | 2504.9 | 2596.2 |
| 20° | 1463.4 | 1600.3 | 1737.8 | 1874.8 | 2036.2 | 2198.2 | 2359.6 | 2521.0 | 2620.7 | 2711.9 | 2853.3 |
| 22.5° | 1538.0 | 1689.4 | 1840.2 | 1991.7 | 2206.0 | 2419.7 | 2634.0 | 2847.8 | 3055.9 | 3259.7 | 3355.4 |
| 25° | 1620.4 | 1823.0 | 2025.1 | 2227.1 | 2494.9 | 2762.0 | 3029.8 | 3297.0 | 3564.7 | 3755.6 | 3865.9 |
| 27.5° | 1562.5 | 1765.7 | 1969.4 | 2172.6 | 2503.8 | 2835.5 | 3166.7 | 3497.9 | 3784.6 | 4014.5 | 4109.1 |
| 30° | 1521.8 | 1771.2 | 2020.6 | 2270.0 | 2658.5 | 3047.0 | 3435.6 | 3824.1 | 4089.1 | 4345.7 | 4484.8 |
| 32.5° | 1514.6 | 1834.7 | 2154.2 | 2474.3 | 2926.8 | 3378.8 | 3831.3 | 4283.3 | 4459.2 | 4686.9 | 4874.5 |
| 35° | 1534.7 | 1886.4 | 2237.7 | 2588.9 | 3107.7 | 3626.5 | 4144.7 | 4663.5 | 4913.4 | 5138.9 | 5303.1 |
| 37.5° | 1595.9 | 1988.3 | 2380.2 | 2772.6 | 3397.7 | 4023.4 | 4648.5 | 5273.6 | 5692.7 | 6105.2 | 6178.7 |
| 40° | 1630.4 | 2046.8 | 2462.6 | 2878.4 | 3605.3 | 4332.3 | 5059.3 | 5786.3 | 6268.3 | 6720.9 | 6751.5 |
| 42.5° | 1671.0 | 2122.5 | 2573.3 | 3024.8 | 3830.8 | 4637.4 | 5443.4 | 6249.4 | 6846.1 | 7332.6 | 7347.1 |
| 45° | 1717.8 | 2182.0 | 2646.8 | 3111.1 | 3952.7 | 4793.8 | 5635.4 | 6476.5 | 7197.9 | 7789.0 | 7644.9 |
| 47.5° | 1736.2 | 2235.5 | 2734.2 | 3233.0 | 4130.3 | 5027.0 | 5924.3 | 6821.0 | 7468.4 | 8006.1 | 7868.1 |
| 50° | 1743.4 | 2287.8 | 2831.6 | 3375.5 | 4305.0 | 5235.2 | 6164.8 | 7094.4 | 7752.9 | 8277.2 | 8065.7 |
| 52.5° | 1788.5 | 2384.1 | 2979.7 | 3575.3 | 4543.8 | 5512.4 | 6480.9 | 7449.5 | 8097.4 | 8601.2 | 8338.4 |
| 55° | 1849.2 | 2526.6 | 3203.5 | 3880.9 | 4883.4 | 5885.3 | 6887.8 | 7889.8 | 8539.9 | 9008.6 | 8683.0 |
| 57.5° | 1905.4 | 2635.1 | 3364.3 | 4093.5 | 5132.2 | 6171.4 | 7210.1 | 8248.8 | 8907.3 | 9371.0 | 9055.4 |
| 60° | 1878.1 | 2639.6 | 3401.1 | 4162.5 | 5183.4 | 6203.7 | 7224.6 | 8244.9 | 8992.5 | 9548.6 | 9387.1 |
| 62.5° | 1795.7 | 2536.0 | 3275.8 | 4016.1 | 4985.3 | 5953.8 | 6922.9 | 7891.5 | 8766.5 | 9479.6 | 9472.3 |
| 65° | 1637.1 | 2318.4 | 2999.2 | 3680.5 | 4577.2 | 5474.5 | 6371.3 | 7268.0 | 8299.5 | 9165.6 | 9221.8 |
| 67.5° | 1443.9 | 2009.5 | 2575.0 | 3140.6 | 3985.0 | 4829.4 | 5673.8 | 6518.2 | 7620.9 | 8576.7 | 8625.1 |
| 70° | 1256.9 | 1671.6 | 2085.7 | 2499.9 | 3241.3 | 3982.7 | 4723.6 | 5465.1 | 6578.9 | 7545.8 | 7590.3 |
| 72.5° | 1037.6 | 1308.7 | 1579.2 | 1850.3 | 2450.9 | 3051.5 | 3651.5 | 4252.2 | 5230.2 | 5973.8 | 6224.9 |
| 75° | 794.9 | 955.7 | 1116.6 | 1277.5 | 1763.4 | 2249.4 | 2734.8 | 3220.7 | 3870.9 | 4419.7 | 4702.5 |
| 77.5° | 568.3 | 651.8 | 735.3 | 818.8 | 1231.8 | 1644.9 | 2057.3 | 2470.4 | 2812.1 | 3123.3 | 3314.2 |
| 80° | 372.9 | 411.9 | 451.4 | 490.4 | 833.8 | 1177.3 | 1520.2 | 1863.6 | 2071.8 | 2238.8 | 2335.1 |
| 82.5° | 226.0 | 245.5 | 264.4 | 283.9 | 562.2 | 840.5 | 1118.3 | 1396.6 | 1515.7 | 1595.3 | 1681.0 |
| 85° | 121.9 | 132.5 | 143.1 | 153.6 | 332.3 | 510.4 | 689.1 | 867.2 | 878.9 | 888.4 | 1015.9 |
| 87.5° | 35.6 | 39.0 | 41.7 | 44.5 | 73.5 | 103.0 | 131.9 | 160.9 | 100.2 | 62.3 | 128.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P367822
 CATALOG NUMBER: MSA-SA3B-730-U-SLR

CANDELA DISTRIBUTION (continued):

| | 247.5° | 250° | 252.5° | 255° | 257.5° | 260° | 262.5° | 265° | 267.5° | 270° | 272.5° |
|--------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P367822

CATALOG NUMBER: MSA-SA3B-730-U-SLR

CANDELA DISTRIBUTION (continued):

| | 275° | 277.5° | 280° | 282.5° | 285° | 287.5° | 290° | 292.5° | 295° | 297.5° | 300° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 |
| 2.5° | 1474.0 | 1466.7 | 1459.5 | 1451.7 | 1444.5 | 1413.9 | 1383.8 | 1353.2 | 1322.6 | 1352.1 | 1381.0 |
| 5° | 1835.8 | 1858.1 | 1879.8 | 1902.0 | 1924.3 | 1926.0 | 1927.1 | 1928.8 | 1929.9 | 1935.4 | 1941.0 |
| 7.5° | 2096.3 | 2135.8 | 2174.8 | 2214.3 | 2253.8 | 2284.4 | 2315.1 | 2346.2 | 2376.8 | 2349.0 | 2321.2 |
| 10° | 2118.6 | 2202.1 | 2285.6 | 2369.1 | 2452.5 | 2467.6 | 2482.1 | 2497.1 | 2512.1 | 2532.1 | 2551.6 |
| 12.5° | 2140.8 | 2242.7 | 2344.0 | 2445.9 | 2547.7 | 2592.3 | 2636.2 | 2680.8 | 2724.7 | 2746.5 | 2767.6 |
| 15° | 2376.3 | 2436.4 | 2496.0 | 2556.1 | 2615.6 | 2646.3 | 2676.3 | 2706.9 | 2737.5 | 2755.9 | 2773.7 |
| 17.5° | 2679.1 | 2701.4 | 2723.1 | 2745.3 | 2767.6 | 2788.2 | 2808.8 | 2829.4 | 2850.0 | 2853.3 | 2856.7 |
| 20° | 2955.2 | 2959.6 | 2963.5 | 2968.0 | 2971.9 | 2928.5 | 2885.6 | 2842.2 | 2798.8 | 2806.6 | 2813.8 |
| 22.5° | 3369.3 | 3344.8 | 3320.9 | 3296.4 | 3272.5 | 3190.7 | 3109.4 | 3027.6 | 2946.3 | 2911.2 | 2876.7 |
| 25° | 3992.8 | 3930.4 | 3868.1 | 3805.7 | 3743.4 | 3613.1 | 3483.4 | 3353.2 | 3223.5 | 3147.2 | 3071.5 |
| 27.5° | 4193.7 | 4057.9 | 3922.6 | 3786.8 | 3651.0 | 3552.5 | 3454.5 | 3356.0 | 3258.0 | 3137.2 | 3016.4 |
| 30° | 4600.1 | 4385.8 | 4172.0 | 3957.7 | 3743.4 | 3648.2 | 3553.0 | 3457.3 | 3362.1 | 3238.5 | 3115.5 |
| 32.5° | 4960.2 | 4737.5 | 4514.9 | 4291.7 | 4069.0 | 3888.7 | 3708.3 | 3528.0 | 3347.6 | 3264.1 | 3180.6 |
| 35° | 5377.1 | 5097.1 | 4817.1 | 4537.2 | 4257.2 | 4102.4 | 3948.2 | 3793.5 | 3639.3 | 3512.9 | 3387.1 |
| 37.5° | 5984.4 | 5686.6 | 5388.8 | 5090.5 | 4792.7 | 4583.4 | 4374.6 | 4165.3 | 3956.6 | 3887.0 | 3818.0 |
| 40° | 6563.3 | 6211.5 | 5860.3 | 5508.5 | 5157.3 | 4996.9 | 4836.6 | 4675.8 | 4515.5 | 4398.0 | 4280.5 |
| 42.5° | 7048.2 | 6700.3 | 6352.9 | 6005.0 | 5657.7 | 5540.8 | 5424.4 | 5307.5 | 5191.2 | 5094.4 | 4997.5 |
| 45° | 7214.6 | 6930.7 | 6647.4 | 6363.5 | 6079.6 | 6038.4 | 5997.8 | 5956.6 | 5916.0 | 5844.1 | 5772.3 |
| 47.5° | 7482.3 | 7192.9 | 6904.0 | 6614.5 | 6325.1 | 6340.1 | 6355.1 | 6370.7 | 6385.8 | 6389.7 | 6393.0 |
| 50° | 7639.9 | 7364.9 | 7090.5 | 6815.5 | 6541.1 | 6614.0 | 6686.3 | 6759.3 | 6832.2 | 6997.5 | 7162.3 |
| 52.5° | 7869.8 | 7599.8 | 7330.4 | 7060.4 | 6790.4 | 6914.0 | 7037.0 | 7160.6 | 7283.6 | 7515.2 | 7746.7 |
| 55° | 8158.1 | 7899.8 | 7642.1 | 7383.8 | 7126.1 | 7246.3 | 7366.0 | 7486.2 | 7605.9 | 7863.6 | 8121.4 |
| 57.5° | 8540.5 | 8263.9 | 7987.8 | 7711.1 | 7435.0 | 7545.8 | 7656.0 | 7766.8 | 7877.0 | 8121.9 | 8366.8 |
| 60° | 8975.8 | 8675.2 | 8374.6 | 8073.5 | 7772.9 | 7803.5 | 7833.6 | 7864.2 | 7894.2 | 8159.8 | 8424.7 |
| 62.5° | 9189.5 | 8911.2 | 8633.5 | 8355.1 | 8076.8 | 7991.7 | 7906.5 | 7820.8 | 7735.6 | 7973.3 | 8210.4 |
| 65° | 9004.2 | 8812.7 | 8621.8 | 8430.3 | 8238.8 | 8088.5 | 7938.8 | 7788.5 | 7638.2 | 7786.8 | 7934.9 |
| 67.5° | 8414.1 | 8305.6 | 8197.6 | 8089.1 | 7980.5 | 7728.4 | 7476.2 | 7223.5 | 6971.3 | 6981.4 | 6990.8 |
| 70° | 7457.8 | 7428.9 | 7400.5 | 7371.6 | 7342.6 | 6963.5 | 6585.0 | 6206.0 | 5826.9 | 5769.0 | 5711.1 |
| 72.5° | 6246.0 | 6265.0 | 6283.3 | 6302.3 | 6321.2 | 5913.7 | 5506.3 | 5098.8 | 4691.3 | 4595.0 | 4498.8 |
| 75° | 4837.7 | 4942.4 | 5047.0 | 5152.2 | 5256.9 | 4867.2 | 4477.6 | 4087.4 | 3697.7 | 3579.2 | 3460.6 |
| 77.5° | 3418.3 | 3613.7 | 3808.5 | 4003.9 | 4199.3 | 3846.9 | 3495.1 | 3142.8 | 2790.4 | 2713.6 | 2636.8 |
| 80° | 2383.5 | 2479.3 | 2575.0 | 2670.8 | 2766.5 | 2589.5 | 2412.5 | 2235.5 | 2058.4 | 2079.6 | 2100.2 |
| 82.5° | 1736.2 | 1758.4 | 1780.1 | 1802.4 | 1824.7 | 1752.3 | 1679.9 | 1607.0 | 1534.7 | 1589.8 | 1644.9 |
| 85° | 1112.2 | 1191.8 | 1270.8 | 1350.4 | 1429.4 | 1349.3 | 1269.1 | 1188.4 | 1108.3 | 1145.0 | 1181.7 |
| 87.5° | 248.8 | 393.5 | 538.3 | 683.6 | 828.3 | 750.3 | 673.0 | 595.0 | 517.1 | 482.0 | 447.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P367822
 CATALOG NUMBER: MSA-SA3B-730-U-SLR

CANDELA DISTRIBUTION (continued):

| | 275° | 277.5° | 280° | 282.5° | 285° | 287.5° | 290° | 292.5° | 295° | 297.5° | 300° |
|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P367822

CATALOG NUMBER: MSA-SA3B-730-U-SLR

CANDELA DISTRIBUTION (continued):

| | 302.5° | 305° | 307.5° | 310° | 312.5° | 315° | 317.5° | 320° | 322.5° | 325° | 327.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 |
| 2.5° | 1410.5 | 1440.0 | 1431.1 | 1422.8 | 1413.9 | 1405.0 | 1421.1 | 1437.2 | 1453.9 | 1470.1 | 1464.5 |
| 5° | 1947.1 | 1952.7 | 1899.8 | 1847.5 | 1794.6 | 1741.7 | 1774.6 | 1807.4 | 1840.2 | 1873.1 | 1861.4 |
| 7.5° | 2293.3 | 2265.5 | 2234.9 | 2204.3 | 2173.1 | 2142.5 | 2135.8 | 2129.1 | 2121.9 | 2115.2 | 2106.3 |
| 10° | 2571.7 | 2591.2 | 2571.1 | 2551.6 | 2531.6 | 2511.6 | 2464.8 | 2418.0 | 2370.7 | 2324.0 | 2304.5 |
| 12.5° | 2789.3 | 2811.0 | 2816.0 | 2820.5 | 2825.5 | 2830.5 | 2778.2 | 2726.4 | 2674.1 | 2621.8 | 2574.5 |
| 15° | 2792.1 | 2810.5 | 2826.6 | 2842.2 | 2858.3 | 2873.9 | 2841.6 | 2809.9 | 2777.6 | 2745.3 | 2730.3 |
| 17.5° | 2860.6 | 2863.9 | 2850.5 | 2837.7 | 2824.4 | 2811.6 | 2798.8 | 2786.5 | 2773.7 | 2761.5 | 2737.5 |
| 20° | 2821.6 | 2829.4 | 2827.7 | 2826.1 | 2823.8 | 2822.2 | 2823.3 | 2823.8 | 2824.9 | 2825.5 | 2812.1 |
| 22.5° | 2841.6 | 2806.6 | 2813.8 | 2820.5 | 2827.7 | 2834.4 | 2854.4 | 2874.5 | 2895.1 | 2915.1 | 2968.6 |
| 25° | 2995.3 | 2919.0 | 2907.3 | 2896.2 | 2884.5 | 2873.4 | 2925.7 | 2977.5 | 3029.8 | 3082.1 | 3168.9 |
| 27.5° | 2895.1 | 2774.3 | 2747.6 | 2720.8 | 2694.1 | 2667.4 | 2747.0 | 2826.1 | 2905.7 | 2985.3 | 3073.8 |
| 30° | 2991.9 | 2868.9 | 2809.9 | 2750.9 | 2691.3 | 2632.3 | 2708.6 | 2784.3 | 2860.6 | 2936.3 | 3034.2 |
| 32.5° | 3097.1 | 3013.6 | 2974.1 | 2935.2 | 2895.6 | 2856.7 | 2862.8 | 2868.9 | 2875.0 | 2881.2 | 3019.2 |
| 35° | 3260.8 | 3134.4 | 3095.5 | 3056.5 | 3017.5 | 2978.6 | 3043.7 | 3108.3 | 3173.4 | 3238.0 | 3354.9 |
| 37.5° | 3748.4 | 3678.8 | 3608.7 | 3538.5 | 3467.9 | 3397.7 | 3436.1 | 3474.5 | 3512.9 | 3551.4 | 3661.6 |
| 40° | 4163.1 | 4045.6 | 4034.0 | 4022.8 | 4011.1 | 3999.4 | 4002.8 | 4005.6 | 4008.9 | 4012.2 | 4106.3 |
| 42.5° | 4900.1 | 4803.2 | 4743.7 | 4684.1 | 4624.6 | 4565.0 | 4561.1 | 4557.2 | 4552.7 | 4548.8 | 4619.5 |
| 45° | 5700.0 | 5628.2 | 5583.6 | 5539.1 | 5494.0 | 5449.5 | 5378.8 | 5308.1 | 5236.9 | 5166.2 | 5227.9 |
| 47.5° | 6396.9 | 6400.8 | 6481.5 | 6561.7 | 6642.4 | 6723.1 | 6602.3 | 6481.5 | 6360.7 | 6239.9 | 6160.3 |
| 50° | 7327.6 | 7492.4 | 7511.8 | 7530.8 | 7550.2 | 7569.7 | 7364.9 | 7160.6 | 6955.8 | 6750.9 | 6667.4 |
| 52.5° | 7978.9 | 8210.4 | 8180.4 | 8150.9 | 8120.8 | 8090.7 | 7972.2 | 7854.2 | 7735.6 | 7617.0 | 7435.0 |
| 55° | 8379.6 | 8637.4 | 8614.5 | 8592.3 | 8569.4 | 8546.6 | 8460.3 | 8374.1 | 8287.8 | 8201.5 | 8001.7 |
| 57.5° | 8611.8 | 8856.7 | 8863.4 | 8870.0 | 8876.7 | 8883.4 | 8860.6 | 8837.7 | 8814.9 | 8792.1 | 8532.2 |
| 60° | 8690.2 | 8955.8 | 8958.5 | 8960.8 | 8963.5 | 8965.8 | 8929.6 | 8893.4 | 8856.7 | 8820.5 | 8650.7 |
| 62.5° | 8448.1 | 8685.2 | 8695.8 | 8705.8 | 8716.4 | 8727.0 | 8701.9 | 8676.9 | 8651.8 | 8626.8 | 8501.0 |
| 65° | 8083.5 | 8232.1 | 8234.9 | 8237.1 | 8239.9 | 8242.7 | 8179.2 | 8116.3 | 8052.9 | 7989.4 | 7959.4 |
| 67.5° | 7000.8 | 7010.9 | 7069.9 | 7128.9 | 7187.9 | 7246.9 | 7251.9 | 7256.9 | 7262.5 | 7267.5 | 7224.1 |
| 70° | 5653.2 | 5595.3 | 5659.3 | 5723.4 | 5787.4 | 5851.4 | 5878.7 | 5905.9 | 5933.8 | 5961.0 | 5981.1 |
| 72.5° | 4401.9 | 4305.6 | 4352.9 | 4400.2 | 4448.1 | 4495.4 | 4454.8 | 4414.1 | 4373.5 | 4332.9 | 4461.5 |
| 75° | 3342.1 | 3223.5 | 3217.4 | 3211.8 | 3205.7 | 3200.1 | 3179.5 | 3158.9 | 3137.8 | 3117.2 | 3237.4 |
| 77.5° | 2559.4 | 2482.6 | 2486.5 | 2489.8 | 2493.7 | 2497.1 | 2475.9 | 2455.3 | 2434.2 | 2413.0 | 2459.2 |
| 80° | 2121.3 | 2141.9 | 2142.5 | 2143.1 | 2143.6 | 2144.2 | 2124.1 | 2104.6 | 2084.6 | 2064.6 | 2031.2 |
| 82.5° | 1700.5 | 1755.6 | 1755.1 | 1755.1 | 1754.5 | 1754.0 | 1752.9 | 1751.7 | 1750.1 | 1749.0 | 1694.4 |
| 85° | 1218.5 | 1255.2 | 1217.4 | 1179.5 | 1141.7 | 1103.8 | 1131.6 | 1159.5 | 1187.9 | 1215.7 | 1192.9 |
| 87.5° | 412.5 | 378.0 | 332.9 | 288.3 | 243.3 | 198.2 | 246.6 | 295.0 | 344.0 | 392.4 | 420.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P367822
 CATALOG NUMBER: MSA-SA3B-730-U-SLR

CANDELA DISTRIBUTION (continued):

| | 302.5° | 305° | 307.5° | 310° | 312.5° | 315° | 317.5° | 320° | 322.5° | 325° | 327.5° |
|--------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P367822

CATALOG NUMBER: MSA-SA3B-730-U-SLR

CANDELA DISTRIBUTION (continued):

| | 330° | 332.5° | 335° | 337.5° | 340° | 342.5° | 345° | 347.5° | 350° | 352.5° | 355° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 | 1209.6 |
| 2.5° | 1459.5 | 1453.9 | 1448.9 | 1413.9 | 1378.2 | 1343.2 | 1307.5 | 1372.1 | 1437.2 | 1501.8 | 1566.4 |
| 5° | 1850.3 | 1838.6 | 1827.4 | 1824.7 | 1821.9 | 1818.5 | 1815.8 | 1848.6 | 1881.4 | 1913.7 | 1946.6 |
| 7.5° | 2097.4 | 2088.5 | 2079.6 | 2056.2 | 2033.4 | 2010.0 | 1986.6 | 2006.7 | 2026.2 | 2046.2 | 2065.7 |
| 10° | 2285.6 | 2266.1 | 2246.6 | 2195.9 | 2145.8 | 2095.2 | 2044.5 | 2029.5 | 2014.5 | 1999.4 | 1984.4 |
| 12.5° | 2527.1 | 2479.3 | 2432.0 | 2374.6 | 2316.7 | 2259.4 | 2201.5 | 2193.7 | 2185.9 | 2178.7 | 2170.9 |
| 15° | 2715.8 | 2700.8 | 2685.8 | 2640.1 | 2594.5 | 2548.8 | 2503.2 | 2442.0 | 2380.2 | 2319.0 | 2257.7 |
| 17.5° | 2714.2 | 2690.2 | 2666.9 | 2728.1 | 2788.8 | 2850.0 | 2910.7 | 2845.5 | 2779.9 | 2714.7 | 2649.6 |
| 20° | 2798.8 | 2784.9 | 2771.5 | 2884.5 | 2996.9 | 3109.9 | 3222.4 | 3186.8 | 3150.6 | 3114.9 | 3078.8 |
| 22.5° | 3021.4 | 3074.9 | 3127.8 | 3224.6 | 3320.9 | 3417.8 | 3514.1 | 3554.7 | 3595.3 | 3636.0 | 3676.6 |
| 25° | 3255.2 | 3342.1 | 3428.9 | 3573.1 | 3716.7 | 3860.8 | 4005.0 | 4034.0 | 4062.9 | 4091.8 | 4120.8 |
| 27.5° | 3161.7 | 3250.2 | 3338.7 | 3447.8 | 3556.4 | 3665.5 | 3774.0 | 3900.9 | 4028.4 | 4155.3 | 4282.2 |
| 30° | 3131.6 | 3229.6 | 3327.0 | 3476.8 | 3625.9 | 3775.7 | 3925.4 | 4100.2 | 4275.0 | 4449.2 | 4624.0 |
| 32.5° | 3156.7 | 3294.7 | 3432.8 | 3635.4 | 3837.5 | 4040.1 | 4242.7 | 4426.4 | 4610.6 | 4794.3 | 4978.0 |
| 35° | 3471.2 | 3588.1 | 3704.4 | 3931.0 | 4157.5 | 4384.1 | 4610.6 | 4826.1 | 5041.5 | 5256.3 | 5471.8 |
| 37.5° | 3771.2 | 3881.4 | 3991.7 | 4223.2 | 4454.2 | 4685.8 | 4917.3 | 5257.4 | 5598.1 | 5938.2 | 6278.3 |
| 40° | 4199.8 | 4293.9 | 4387.4 | 4585.6 | 4783.7 | 4981.9 | 5180.1 | 5590.3 | 6000.6 | 6410.8 | 6821.0 |
| 42.5° | 4689.7 | 4760.4 | 4830.5 | 5035.9 | 5241.3 | 5446.7 | 5652.1 | 6098.5 | 6545.5 | 6991.9 | 7438.4 |
| 45° | 5289.2 | 5351.0 | 5412.8 | 5554.1 | 5695.5 | 5837.5 | 5978.9 | 6439.2 | 6899.5 | 7359.9 | 7820.2 |
| 47.5° | 6080.7 | 6001.1 | 5921.5 | 5991.1 | 6060.7 | 6130.3 | 6199.8 | 6655.2 | 7110.5 | 7565.3 | 8020.6 |
| 50° | 6583.9 | 6500.4 | 6416.9 | 6423.0 | 6428.6 | 6434.7 | 6440.9 | 6865.6 | 7290.3 | 7714.5 | 8139.2 |
| 52.5° | 7253.0 | 7070.4 | 6888.4 | 6886.7 | 6885.1 | 6882.8 | 6881.2 | 7251.3 | 7622.0 | 7992.2 | 8362.4 |
| 55° | 7801.8 | 7602.0 | 7402.2 | 7363.2 | 7324.2 | 7284.7 | 7245.8 | 7612.0 | 7977.7 | 8344.0 | 8709.7 |
| 57.5° | 8272.2 | 8011.7 | 7751.7 | 7690.5 | 7629.3 | 7568.1 | 7506.8 | 7901.5 | 8296.7 | 8691.4 | 9086.0 |
| 60° | 8481.5 | 8311.7 | 8142.5 | 8067.4 | 7992.2 | 7917.1 | 7841.9 | 8178.1 | 8514.3 | 8850.0 | 9186.2 |
| 62.5° | 8375.7 | 8249.9 | 8124.7 | 8141.9 | 8159.2 | 8176.5 | 8193.7 | 8385.8 | 8578.4 | 8770.4 | 8962.4 |
| 65° | 7929.9 | 7899.8 | 7870.3 | 8009.5 | 8148.6 | 8287.8 | 8426.9 | 8429.7 | 8432.5 | 8435.3 | 8438.1 |
| 67.5° | 7180.6 | 7137.2 | 7093.8 | 7383.3 | 7672.1 | 7961.6 | 8251.0 | 8113.6 | 7976.1 | 7839.1 | 7701.6 |
| 70° | 6000.6 | 6020.6 | 6040.1 | 6434.2 | 6827.7 | 7221.8 | 7615.9 | 7416.6 | 7216.8 | 7017.5 | 6817.7 |
| 72.5° | 4590.0 | 4719.2 | 4847.8 | 5256.3 | 5664.9 | 6073.5 | 6482.1 | 6254.4 | 6026.2 | 5798.5 | 5570.3 |
| 75° | 3357.6 | 3477.9 | 3598.1 | 4001.7 | 4405.2 | 4809.4 | 5212.9 | 4942.4 | 4671.9 | 4401.9 | 4131.4 |
| 77.5° | 2505.4 | 2552.2 | 2598.4 | 2934.0 | 3269.1 | 3604.8 | 3939.9 | 3668.2 | 3396.6 | 3125.5 | 2853.9 |
| 80° | 1998.3 | 1964.9 | 1932.1 | 2118.0 | 2303.9 | 2489.8 | 2675.8 | 2483.2 | 2290.0 | 2097.4 | 1904.8 |
| 82.5° | 1640.4 | 1585.9 | 1531.9 | 1600.9 | 1669.9 | 1739.5 | 1808.5 | 1654.3 | 1500.1 | 1346.0 | 1191.8 |
| 85° | 1170.1 | 1147.2 | 1124.4 | 1144.4 | 1163.9 | 1184.0 | 1204.0 | 1053.7 | 903.4 | 753.7 | 603.4 |
| 87.5° | 447.5 | 475.4 | 503.2 | 534.9 | 566.1 | 597.8 | 629.0 | 492.6 | 356.2 | 220.4 | 84.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P367822
 CATALOG NUMBER: MSA-SA3B-730-U-SLR

CANDELA DISTRIBUTION (continued):

| | 330° | 332.5° | 335° | 337.5° | 340° | 342.5° | 345° | 347.5° | 350° | 352.5° | 355° |
|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P367822
 CATALOG NUMBER: MSA-SA3B-730-U-SLR

CANDELA DISTRIBUTION (continued):

| | 357.5° | 360° |
|--------|--------|--------|
| 0° | 1209.6 | 1209.6 |
| 2.5° | 1593.1 | 1619.8 |
| 5° | 1946.0 | 1945.5 |
| 7.5° | 2056.8 | 2047.3 |
| 10° | 1959.9 | 1935.4 |
| 12.5° | 2098.5 | 2025.6 |
| 15° | 2185.4 | 2112.4 |
| 17.5° | 2539.9 | 2429.7 |
| 20° | 2948.0 | 2816.6 |
| 22.5° | 3476.8 | 3276.9 |
| 25° | 3882.0 | 3642.6 |
| 27.5° | 4140.3 | 3997.8 |
| 30° | 4460.9 | 4297.8 |
| 32.5° | 4857.8 | 4737.0 |
| 35° | 5361.5 | 5250.8 |
| 37.5° | 6243.8 | 6208.7 |
| 40° | 6779.3 | 6737.0 |
| 42.5° | 7440.0 | 7441.1 |
| 45° | 7845.3 | 7870.3 |
| 47.5° | 8084.1 | 8147.0 |
| 50° | 8274.4 | 8409.1 |
| 52.5° | 8546.6 | 8730.9 |
| 55° | 8954.6 | 9199.0 |
| 57.5° | 9294.2 | 9502.4 |
| 60° | 9294.2 | 9401.6 |
| 62.5° | 8959.7 | 8956.3 |
| 65° | 8386.3 | 8334.0 |
| 67.5° | 7636.0 | 7570.3 |
| 70° | 6715.3 | 6612.3 |
| 72.5° | 5442.8 | 5314.8 |
| 75° | 3956.0 | 3780.1 |
| 77.5° | 2770.4 | 2686.3 |
| 80° | 1945.5 | 1986.1 |
| 82.5° | 1249.7 | 1307.5 |
| 85° | 594.5 | 585.6 |
| 87.5° | 70.1 | 56.2 |
| 90° | 0.0 | 0.0 |
| 92.5° | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 |
| 97.5° | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 |
| 102.5° | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 |
| 107.5° | 0.0 | 0.0 |
| 110° | 0.0 | 0.0 |



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