

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: P596751

Luminaire Tested: **MSA-SA4A-827-U-SLR-HSS**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P596751
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-25)
Test Lab: INNOVATIONS CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA4A-827-U-SLR-HSS
Description: MESA POST TOP DECORATIVE LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8314 lumens
Efficiency: N/A
Efficacy: 64.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

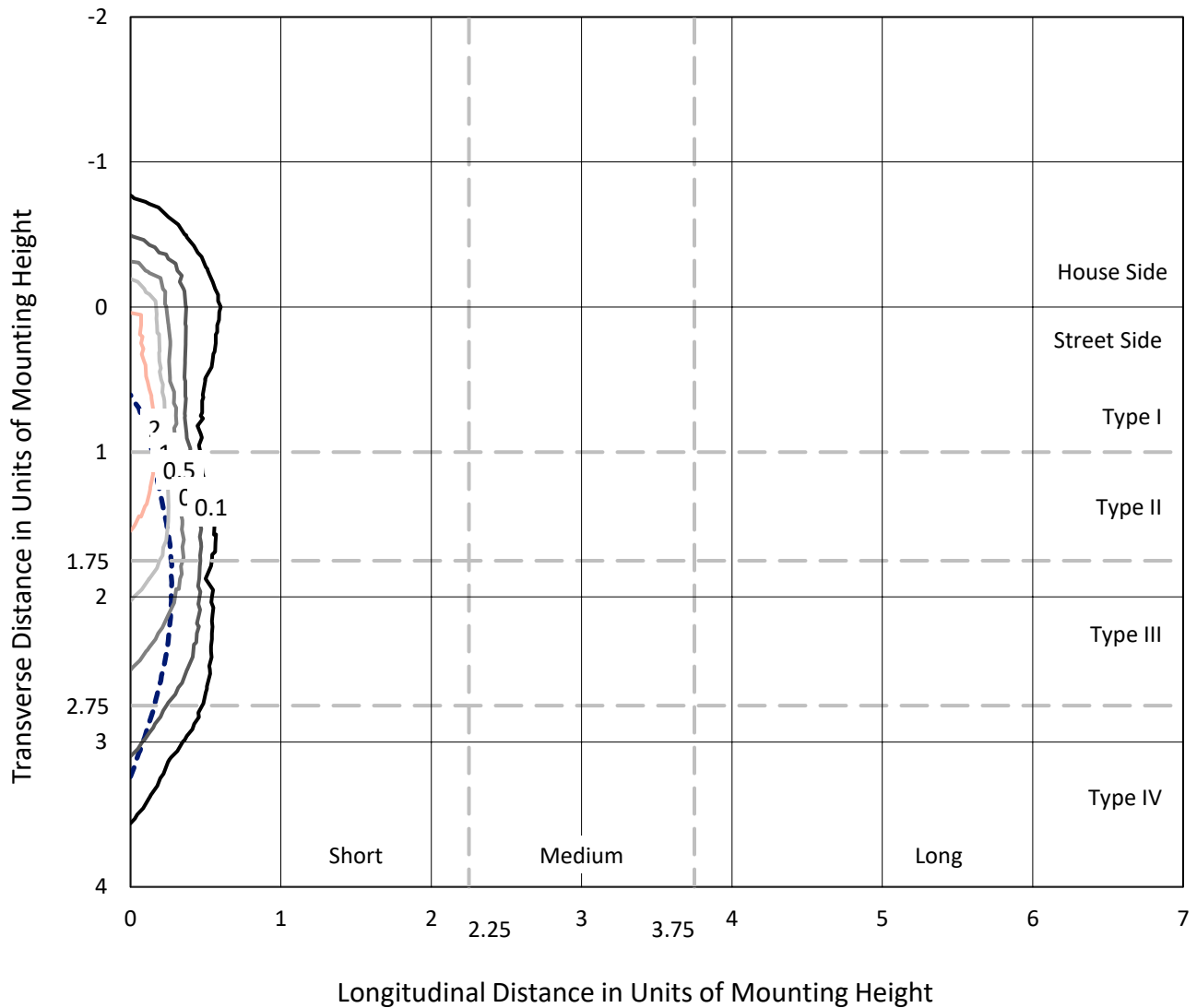
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P596751
 CATALOG NUMBER: MSA-SA4A-827-U-SLR-HSS

Iso-Footcandle Lines of Horizontal Illumination

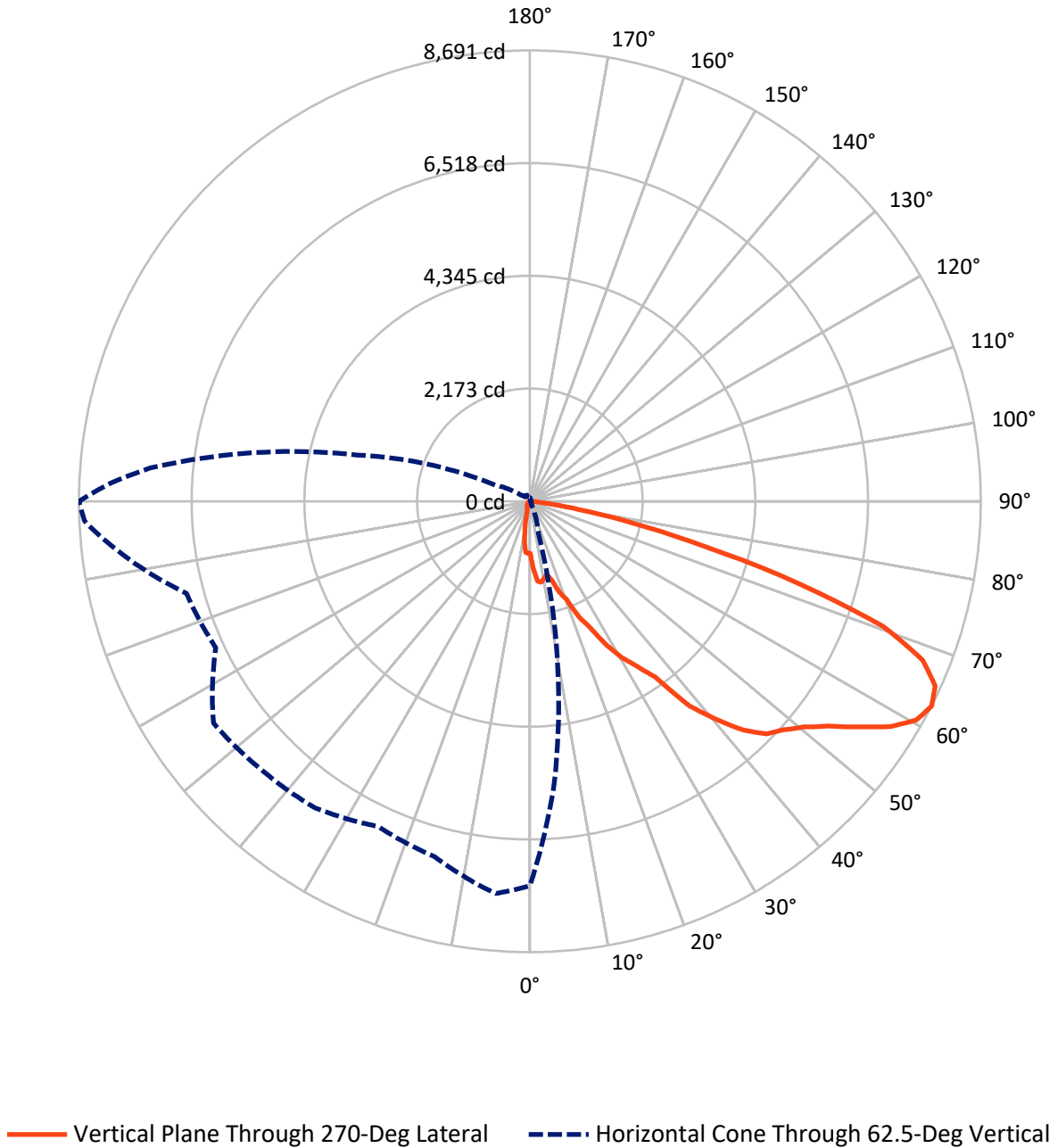
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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 | 1388.3 | 0.0 | 1388.3 |
| | % Fixture | 16.7 | 0.0 | 16.7 |
| Street Side | Lumens | 6925.7 | 0.0 | 6925.7 |
| | % Fixture | 83.3 | 0.0 | 83.3 |
| Total | Lumens | 8314.0 | 0.0 | 8314.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 111.9 | 1.3 |
| 10°-20° | 292.4 | 3.5 |
| 20°-30° | 472.6 | 5.7 |
| 30°-40° | 791.6 | 9.5 |
| 40°-50° | 1294.0 | 15.6 |
| 50°-60° | 1915.6 | 23.0 |
| 60°-70° | 2199.1 | 26.5 |
| 70°-80° | 1087.3 | 13.1 |
| 80°-90° | 149.3 | 1.8 |
| 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° | 8314.0 | 100.0 |
| 0°-180° | 8314.0 | 100.0 |

Coefficient of Utilization

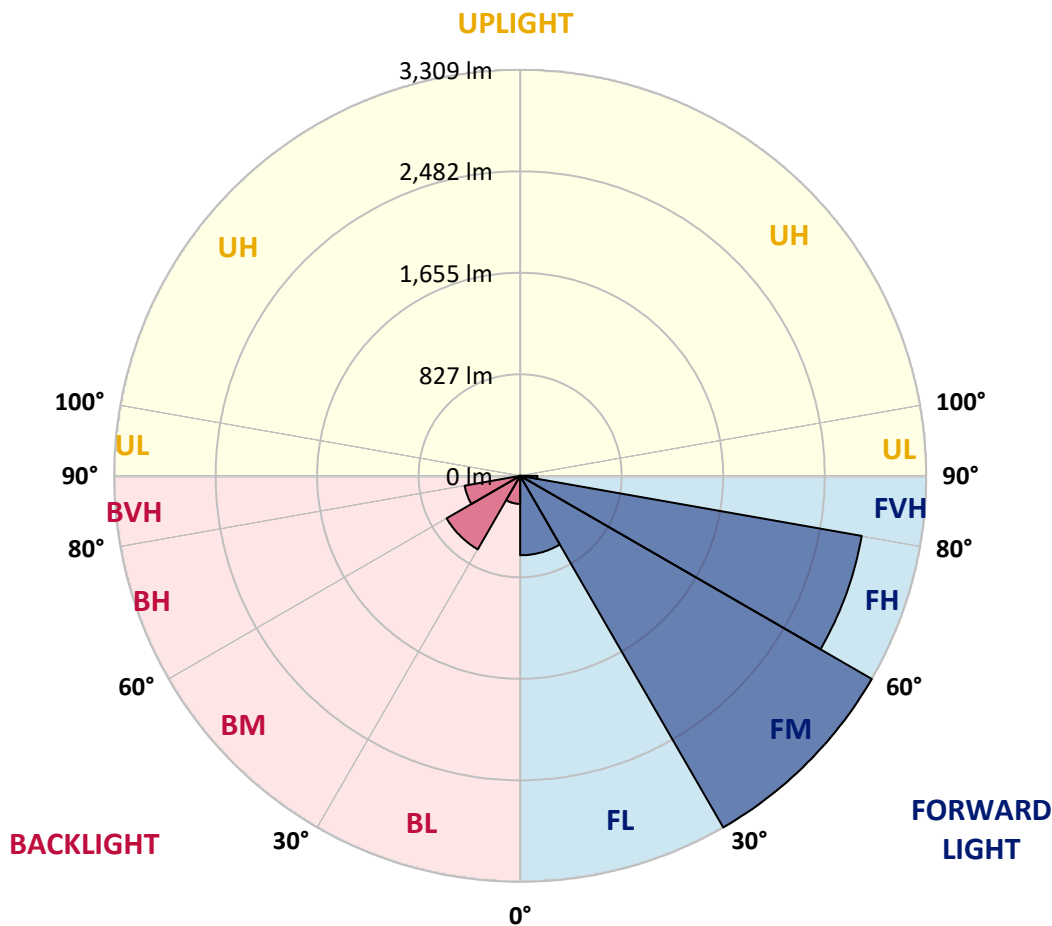


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 647.7 | 7.8 | | | |
| FM (30°-60°) | 3309.4 | 39.8 | | | |
| FH (60°-80°) | 2827.2 | 34.0 | | | G2/5000 |
| FVH (80°-90°) | 141.4 | 1.7 | | | G2/225 |
| BL (0°-30°) | 229.2 | 2.8 | B1/500 | | |
| BM (30°-60°) | 691.8 | 8.3 | B1/1000 | | |
| BH (60°-80°) | 459.3 | 5.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 7.9 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2
 Type IV Short





REPORT NUMBER: P596751

CATALOG NUMBER: MSA-SA4A-827-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 2.5° | 5° | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 25° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 |
| 2.5° | 1328.4 | 1345.0 | 1361.1 | 1330.3 | 1299.5 | 1268.7 | 1237.9 | 1210.4 | 1182.9 | 1155.0 | 1127.5 |
| 5° | 1709.4 | 1679.1 | 1648.8 | 1607.1 | 1565.4 | 1523.7 | 1482.0 | 1462.5 | 1443.1 | 1423.7 | 1404.2 |
| 7.5° | 1842.1 | 1788.1 | 1733.6 | 1696.6 | 1660.2 | 1623.2 | 1586.2 | 1527.9 | 1469.2 | 1410.9 | 1352.1 |
| 10° | 1737.9 | 1680.5 | 1622.7 | 1590.5 | 1558.3 | 1526.0 | 1493.8 | 1421.3 | 1348.3 | 1275.8 | 1202.8 |
| 12.5° | 1785.7 | 1723.7 | 1661.6 | 1595.2 | 1528.9 | 1462.5 | 1396.2 | 1340.7 | 1284.8 | 1229.4 | 1173.4 |
| 15° | 1818.9 | 1747.8 | 1676.3 | 1600.4 | 1524.6 | 1448.8 | 1373.0 | 1307.6 | 1242.6 | 1177.2 | 1111.8 |
| 17.5° | 2013.7 | 1911.8 | 1809.9 | 1693.3 | 1576.7 | 1460.2 | 1343.6 | 1267.7 | 1192.4 | 1116.6 | 1040.7 |
| 20° | 2263.9 | 2119.4 | 1974.4 | 1816.6 | 1658.7 | 1500.9 | 1343.1 | 1248.8 | 1154.5 | 1060.2 | 965.9 |
| 22.5° | 2554.9 | 2374.4 | 2193.3 | 1998.5 | 1804.2 | 1609.4 | 1414.7 | 1279.1 | 1143.6 | 1008.0 | 872.5 |
| 25° | 2847.8 | 2684.8 | 2521.8 | 2259.7 | 1997.6 | 1735.0 | 1473.0 | 1300.9 | 1128.4 | 956.4 | 783.9 |
| 27.5° | 3376.7 | 3085.2 | 2793.8 | 2460.1 | 2127.0 | 1793.3 | 1459.7 | 1262.5 | 1065.4 | 867.8 | 670.6 |
| 30° | 3722.7 | 3498.5 | 3273.9 | 2833.1 | 2392.8 | 1952.1 | 1511.3 | 1261.6 | 1011.8 | 761.6 | 511.8 |
| 32.5° | 4136.4 | 3808.5 | 3480.0 | 3001.8 | 2523.6 | 2045.5 | 1567.3 | 1273.9 | 980.1 | 686.7 | 392.9 |
| 35° | 4601.3 | 4244.5 | 3887.6 | 3281.9 | 2676.3 | 2070.1 | 1464.4 | 1180.1 | 895.7 | 611.4 | 327.0 |
| 37.5° | 5422.6 | 4825.5 | 4228.4 | 3522.2 | 2815.6 | 2109.4 | 1402.8 | 1118.9 | 834.6 | 550.7 | 266.3 |
| 40° | 5889.0 | 5318.9 | 4748.7 | 3866.3 | 2983.8 | 2101.4 | 1218.9 | 966.8 | 715.2 | 463.0 | 210.9 |
| 42.5° | 6495.6 | 5772.4 | 5048.7 | 4062.5 | 3076.2 | 2090.0 | 1103.8 | 870.6 | 637.4 | 403.8 | 170.6 |
| 45° | 6855.3 | 6035.9 | 5216.5 | 4147.8 | 3079.1 | 2010.4 | 941.7 | 739.8 | 537.9 | 336.0 | 134.1 |
| 47.5° | 7082.3 | 6260.5 | 5438.8 | 4291.4 | 3144.5 | 1997.1 | 849.7 | 664.0 | 478.2 | 292.4 | 106.6 |
| 50° | 7197.5 | 6373.3 | 5548.7 | 4369.6 | 3190.5 | 2010.9 | 831.7 | 646.9 | 461.6 | 276.8 | 91.5 |
| 52.5° | 7317.4 | 6522.6 | 5727.4 | 4505.1 | 3282.9 | 2060.6 | 838.4 | 649.8 | 461.6 | 273.0 | 84.4 |
| 55° | 7559.6 | 6775.7 | 5991.4 | 4699.4 | 3407.5 | 2115.6 | 823.7 | 637.9 | 452.1 | 265.9 | 80.1 |
| 57.5° | 7857.2 | 7019.3 | 6180.9 | 4841.6 | 3502.3 | 2163.0 | 823.7 | 637.0 | 450.2 | 263.0 | 76.3 |
| 60° | 7800.8 | 6891.3 | 5981.4 | 4681.9 | 3382.4 | 2082.4 | 782.9 | 605.2 | 428.0 | 250.2 | 72.5 |
| 62.5° | 7413.6 | 6426.4 | 5438.8 | 4237.8 | 3036.4 | 1835.5 | 634.1 | 492.4 | 350.7 | 208.5 | 66.8 |
| 65° | 6958.6 | 5910.8 | 4862.5 | 3757.3 | 2651.6 | 1546.4 | 440.7 | 346.0 | 250.7 | 155.9 | 60.7 |
| 67.5° | 6410.8 | 5293.3 | 4175.7 | 3192.8 | 2210.4 | 1227.5 | 244.5 | 197.2 | 149.8 | 101.9 | 54.5 |
| 70° | 5460.1 | 4306.6 | 3152.5 | 2397.1 | 1642.1 | 886.7 | 131.3 | 110.9 | 90.5 | 70.1 | 49.8 |
| 72.5° | 4099.0 | 3042.1 | 1985.3 | 1508.0 | 1031.3 | 554.0 | 76.8 | 69.2 | 61.1 | 53.6 | 45.5 |
| 75° | 2789.0 | 1997.1 | 1205.2 | 917.5 | 630.3 | 342.6 | 55.0 | 51.2 | 46.9 | 43.1 | 38.9 |
| 77.5° | 1896.2 | 1371.5 | 846.9 | 646.4 | 446.0 | 245.5 | 45.0 | 42.7 | 40.3 | 37.4 | 35.1 |
| 80° | 1183.9 | 810.4 | 437.0 | 336.5 | 235.5 | 135.1 | 34.1 | 32.7 | 31.3 | 29.4 | 28.0 |
| 82.5° | 827.9 | 495.3 | 162.6 | 127.0 | 91.5 | 55.4 | 19.9 | 20.4 | 20.9 | 20.9 | 21.3 |
| 85° | 347.4 | 187.7 | 28.0 | 23.7 | 19.4 | 15.2 | 10.9 | 11.8 | 13.3 | 14.2 | 15.2 |
| 87.5° | 6.2 | 3.3 | 0.0 | 0.9 | 2.4 | 3.3 | 4.3 | 5.7 | 6.6 | 8.1 | 9.0 |
| 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 |



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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° | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 |
| 2.5° | 1134.6 | 1141.7 | 1148.3 | 1155.4 | 1149.7 | 1144.5 | 1138.8 | 1133.2 | 1124.6 | 1116.6 | 1108.0 |
| 5° | 1380.5 | 1356.8 | 1333.1 | 1309.5 | 1273.4 | 1237.4 | 1200.9 | 1164.9 | 1160.6 | 1156.4 | 1151.6 |
| 7.5° | 1296.7 | 1241.2 | 1185.3 | 1129.8 | 1077.7 | 1025.6 | 973.4 | 921.3 | 905.2 | 889.6 | 873.4 |
| 10° | 1160.2 | 1117.5 | 1074.4 | 1031.7 | 994.3 | 956.4 | 918.9 | 881.0 | 841.7 | 802.4 | 762.5 |
| 12.5° | 1128.9 | 1084.3 | 1039.3 | 994.8 | 960.6 | 926.5 | 892.4 | 858.3 | 814.2 | 770.1 | 726.1 |
| 15° | 1063.5 | 1015.1 | 966.8 | 918.5 | 873.0 | 827.5 | 781.5 | 736.0 | 682.9 | 629.8 | 576.8 |
| 17.5° | 983.4 | 926.5 | 869.2 | 811.8 | 752.1 | 692.4 | 632.7 | 573.0 | 511.8 | 451.2 | 390.0 |
| 20° | 888.1 | 810.4 | 732.2 | 654.5 | 580.6 | 506.6 | 432.2 | 358.3 | 319.9 | 282.0 | 243.6 |
| 22.5° | 772.0 | 671.1 | 570.6 | 469.7 | 409.0 | 347.9 | 287.2 | 226.1 | 209.5 | 192.9 | 176.3 |
| 25° | 669.7 | 555.4 | 441.2 | 327.0 | 288.6 | 250.2 | 211.8 | 173.5 | 165.9 | 157.8 | 150.2 |
| 27.5° | 563.0 | 455.9 | 348.3 | 240.8 | 219.0 | 196.7 | 174.9 | 152.6 | 147.4 | 142.7 | 137.4 |
| 30° | 431.7 | 351.7 | 271.1 | 191.0 | 176.8 | 162.6 | 147.9 | 133.6 | 131.3 | 128.4 | 126.1 |
| 32.5° | 334.6 | 275.8 | 217.5 | 158.8 | 150.7 | 142.7 | 134.6 | 126.5 | 122.7 | 119.0 | 114.7 |
| 35° | 279.6 | 232.7 | 185.3 | 137.9 | 132.2 | 126.1 | 120.4 | 114.2 | 110.4 | 106.2 | 102.4 |
| 37.5° | 231.7 | 197.6 | 163.0 | 128.4 | 122.3 | 116.1 | 109.5 | 103.3 | 100.5 | 97.6 | 94.8 |
| 40° | 191.0 | 171.1 | 151.2 | 131.3 | 122.3 | 113.3 | 104.3 | 95.3 | 92.9 | 90.5 | 88.1 |
| 42.5° | 157.8 | 145.0 | 131.8 | 119.0 | 112.3 | 106.2 | 99.5 | 92.9 | 89.6 | 85.8 | 82.5 |
| 45° | 127.5 | 120.4 | 113.7 | 106.6 | 107.1 | 107.6 | 107.6 | 108.1 | 99.5 | 90.5 | 82.0 |
| 47.5° | 103.3 | 100.0 | 96.2 | 92.9 | 96.7 | 100.5 | 103.8 | 107.6 | 98.6 | 89.6 | 80.1 |
| 50° | 88.6 | 86.3 | 83.4 | 80.6 | 84.4 | 88.6 | 92.4 | 96.2 | 92.4 | 89.1 | 85.3 |
| 52.5° | 81.0 | 77.7 | 74.4 | 71.1 | 72.5 | 74.4 | 75.8 | 77.2 | 77.2 | 77.2 | 77.2 |
| 55° | 76.3 | 73.0 | 69.2 | 65.4 | 64.0 | 62.1 | 60.7 | 58.8 | 56.4 | 54.5 | 52.1 |
| 57.5° | 72.5 | 68.7 | 64.5 | 60.7 | 58.3 | 55.4 | 53.1 | 50.2 | 47.9 | 45.0 | 42.7 |
| 60° | 68.7 | 64.9 | 60.7 | 56.9 | 54.5 | 52.1 | 49.3 | 46.9 | 44.1 | 41.7 | 38.9 |
| 62.5° | 63.5 | 60.2 | 56.9 | 53.6 | 51.2 | 49.3 | 46.9 | 44.5 | 41.7 | 38.9 | 35.5 |
| 65° | 57.8 | 55.4 | 52.6 | 49.8 | 47.4 | 45.0 | 42.7 | 40.3 | 37.4 | 35.1 | 32.2 |
| 67.5° | 52.6 | 50.2 | 48.3 | 46.0 | 43.1 | 40.8 | 37.9 | 35.1 | 33.2 | 31.3 | 28.9 |
| 70° | 48.3 | 46.4 | 45.0 | 43.1 | 40.3 | 37.9 | 35.1 | 32.2 | 30.8 | 28.9 | 27.5 |
| 72.5° | 44.1 | 42.7 | 40.8 | 39.3 | 37.0 | 34.6 | 32.2 | 29.9 | 28.4 | 27.0 | 25.6 |
| 75° | 37.9 | 37.0 | 36.0 | 35.1 | 32.7 | 30.3 | 27.5 | 25.1 | 24.6 | 24.2 | 23.7 |
| 77.5° | 34.1 | 33.6 | 32.7 | 31.8 | 29.4 | 27.0 | 24.6 | 22.3 | 22.7 | 23.2 | 23.2 |
| 80° | 28.0 | 28.0 | 27.5 | 27.5 | 25.6 | 23.7 | 21.3 | 19.4 | 20.4 | 21.8 | 22.7 |
| 82.5° | 21.3 | 21.3 | 21.3 | 21.3 | 19.4 | 17.5 | 15.6 | 13.7 | 15.2 | 16.1 | 17.5 |
| 85° | 14.7 | 14.2 | 13.7 | 13.3 | 11.8 | 10.9 | 9.5 | 8.1 | 10.0 | 11.4 | 13.3 |
| 87.5° | 9.0 | 9.5 | 9.5 | 9.5 | 8.5 | 7.1 | 6.2 | 4.7 | 5.7 | 6.2 | 7.1 |
| 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: P596751
 CATALOG NUMBER: MSA-SA4A-827-U-SLR-HSS

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: P596751
 CATALOG NUMBER: MSA-SA4A-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 55° | 57.5° | 60° | 62.5° | 65° | 67.5° | 70° | 72.5° | 75° | 77.5° | 80° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 |
| 2.5° | 1099.5 | 1085.3 | 1071.1 | 1056.4 | 1042.2 | 1009.0 | 975.8 | 942.6 | 909.5 | 934.1 | 958.3 |
| 5° | 1147.4 | 1119.9 | 1091.9 | 1064.4 | 1036.5 | 1024.2 | 1012.3 | 1000.0 | 987.7 | 989.6 | 991.9 |
| 7.5° | 857.3 | 839.3 | 821.3 | 802.8 | 784.8 | 781.0 | 777.7 | 773.9 | 770.1 | 778.2 | 785.8 |
| 10° | 723.2 | 698.1 | 672.5 | 647.4 | 621.8 | 608.0 | 594.3 | 580.6 | 566.8 | 565.4 | 563.5 |
| 12.5° | 682.0 | 643.6 | 605.7 | 567.3 | 528.9 | 499.0 | 469.2 | 439.3 | 409.5 | 411.8 | 414.2 |
| 15° | 523.7 | 485.3 | 447.4 | 409.0 | 370.6 | 346.4 | 321.8 | 297.6 | 273.0 | 265.9 | 258.8 |
| 17.5° | 328.9 | 300.5 | 272.0 | 243.1 | 214.7 | 206.6 | 199.0 | 191.0 | 182.9 | 180.6 | 178.2 |
| 20° | 205.2 | 192.9 | 180.6 | 167.8 | 155.4 | 153.6 | 151.7 | 149.8 | 147.9 | 149.3 | 150.7 |
| 22.5° | 159.7 | 154.5 | 148.8 | 143.6 | 137.9 | 136.0 | 134.1 | 132.2 | 130.3 | 131.8 | 132.7 |
| 25° | 142.2 | 138.4 | 134.6 | 130.8 | 127.0 | 125.1 | 122.7 | 120.9 | 118.5 | 119.4 | 120.9 |
| 27.5° | 132.2 | 128.9 | 125.6 | 122.3 | 119.0 | 115.6 | 112.8 | 109.5 | 106.2 | 108.1 | 109.5 |
| 30° | 123.2 | 119.4 | 116.1 | 112.3 | 108.5 | 105.2 | 101.9 | 98.1 | 94.8 | 96.7 | 98.6 |
| 32.5° | 110.9 | 107.6 | 103.8 | 100.5 | 96.7 | 94.8 | 92.9 | 90.5 | 88.6 | 90.0 | 91.0 |
| 35° | 98.1 | 95.3 | 92.9 | 90.0 | 87.2 | 85.3 | 83.9 | 82.0 | 80.1 | 80.6 | 81.5 |
| 37.5° | 91.9 | 88.6 | 85.3 | 82.0 | 78.7 | 77.7 | 76.8 | 75.4 | 74.4 | 74.4 | 74.4 |
| 40° | 85.8 | 82.5 | 79.1 | 75.4 | 72.0 | 70.6 | 69.2 | 67.8 | 66.3 | 66.3 | 66.3 |
| 42.5° | 78.7 | 75.4 | 72.0 | 68.7 | 65.4 | 64.0 | 62.1 | 60.7 | 58.8 | 58.8 | 58.8 |
| 45° | 73.0 | 69.7 | 66.8 | 63.5 | 60.2 | 57.8 | 55.4 | 52.6 | 50.2 | 49.8 | 49.3 |
| 47.5° | 71.1 | 66.3 | 61.6 | 56.9 | 52.1 | 49.8 | 47.4 | 44.5 | 42.2 | 41.7 | 41.2 |
| 50° | 81.5 | 72.0 | 62.6 | 53.1 | 43.6 | 41.7 | 39.8 | 37.9 | 36.0 | 35.1 | 34.6 |
| 52.5° | 77.2 | 67.3 | 57.3 | 47.4 | 37.4 | 36.0 | 34.6 | 33.2 | 31.8 | 30.8 | 29.9 |
| 55° | 49.8 | 45.5 | 41.7 | 37.4 | 33.2 | 32.2 | 31.3 | 29.9 | 28.9 | 28.0 | 27.0 |
| 57.5° | 39.8 | 37.4 | 35.5 | 33.2 | 30.8 | 29.9 | 28.9 | 27.5 | 26.5 | 25.1 | 24.2 |
| 60° | 36.0 | 34.1 | 32.2 | 30.3 | 28.4 | 27.5 | 26.5 | 25.6 | 24.6 | 23.2 | 22.3 |
| 62.5° | 32.7 | 31.3 | 29.9 | 28.4 | 27.0 | 26.1 | 25.1 | 24.2 | 23.2 | 21.8 | 20.4 |
| 65° | 29.4 | 28.4 | 27.5 | 26.5 | 25.6 | 24.6 | 23.7 | 22.3 | 21.3 | 19.9 | 18.5 |
| 67.5° | 27.0 | 26.5 | 26.1 | 25.6 | 25.1 | 24.2 | 22.7 | 21.8 | 20.4 | 19.0 | 17.1 |
| 70° | 25.6 | 25.6 | 25.6 | 25.1 | 25.1 | 24.2 | 22.7 | 21.8 | 20.4 | 18.5 | 17.1 |
| 72.5° | 24.2 | 24.6 | 25.1 | 25.1 | 25.6 | 24.2 | 22.7 | 21.3 | 19.9 | 18.0 | 16.6 |
| 75° | 23.2 | 23.7 | 24.2 | 24.2 | 24.6 | 23.7 | 22.7 | 21.3 | 20.4 | 18.5 | 16.6 |
| 77.5° | 23.7 | 24.2 | 24.2 | 24.6 | 24.6 | 23.7 | 22.7 | 21.3 | 20.4 | 18.0 | 15.6 |
| 80° | 23.7 | 23.2 | 22.7 | 21.8 | 21.3 | 19.4 | 17.5 | 15.2 | 13.3 | 10.4 | 8.1 |
| 82.5° | 18.5 | 17.5 | 17.1 | 16.1 | 15.2 | 13.3 | 11.4 | 9.5 | 7.6 | 5.7 | 3.8 |
| 85° | 14.7 | 13.7 | 13.3 | 12.3 | 11.4 | 10.0 | 8.1 | 6.6 | 4.7 | 3.8 | 2.4 |
| 87.5° | 7.6 | 7.1 | 6.2 | 5.7 | 4.7 | 3.8 | 2.4 | 1.4 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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: P596751
 CATALOG NUMBER: MSA-SA4A-827-U-SLR-HSS

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: P596751
 CATALOG NUMBER: MSA-SA4A-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 82.5° | 85° | 87.5° | 90° | 92.5° | 95° | 97.5° | 100° | 102.5° | 105° | 107.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 |
| 2.5° | 982.9 | 1007.1 | 1003.8 | 1000.5 | 1016.1 | 1031.7 | 1020.4 | 1009.5 | 998.1 | 986.7 | 963.0 |
| 5° | 993.8 | 995.7 | 992.4 | 988.6 | 989.1 | 989.6 | 982.0 | 974.4 | 966.8 | 959.2 | 957.8 |
| 7.5° | 793.8 | 801.4 | 811.8 | 821.8 | 822.3 | 822.3 | 816.6 | 810.9 | 804.7 | 799.0 | 801.9 |
| 10° | 562.1 | 560.2 | 563.0 | 565.9 | 565.4 | 564.4 | 579.6 | 594.8 | 609.5 | 624.6 | 613.7 |
| 12.5° | 416.1 | 418.5 | 406.6 | 394.8 | 399.0 | 402.8 | 405.2 | 407.6 | 409.9 | 412.3 | 418.9 |
| 15° | 251.7 | 244.5 | 236.0 | 227.5 | 231.7 | 235.5 | 239.8 | 243.6 | 247.9 | 251.7 | 255.9 |
| 17.5° | 175.4 | 173.0 | 169.2 | 164.9 | 165.4 | 165.9 | 166.3 | 166.8 | 166.8 | 167.3 | 168.2 |
| 20° | 152.1 | 153.6 | 150.7 | 147.4 | 146.4 | 145.0 | 144.1 | 143.1 | 141.7 | 140.8 | 139.3 |
| 22.5° | 134.1 | 135.1 | 135.5 | 135.5 | 133.6 | 131.3 | 129.4 | 128.0 | 126.1 | 124.2 | 123.2 |
| 25° | 121.8 | 122.7 | 121.8 | 120.4 | 119.4 | 118.5 | 117.5 | 116.1 | 115.2 | 113.7 | 113.3 |
| 27.5° | 111.4 | 112.8 | 112.8 | 112.3 | 111.4 | 110.0 | 107.6 | 105.7 | 103.3 | 100.9 | 101.4 |
| 30° | 100.5 | 102.4 | 102.4 | 101.9 | 101.4 | 100.9 | 98.6 | 96.2 | 93.8 | 91.5 | 92.4 |
| 32.5° | 92.4 | 93.4 | 92.9 | 92.4 | 92.4 | 91.9 | 90.0 | 88.6 | 86.7 | 84.8 | 84.8 |
| 35° | 82.0 | 82.5 | 82.5 | 82.5 | 82.5 | 82.0 | 80.6 | 79.1 | 77.7 | 76.3 | 76.8 |
| 37.5° | 74.4 | 74.4 | 75.8 | 76.8 | 75.8 | 74.9 | 73.9 | 72.5 | 71.6 | 70.1 | 70.1 |
| 40° | 65.9 | 65.9 | 67.3 | 68.2 | 67.3 | 66.3 | 65.9 | 64.9 | 64.5 | 63.5 | 63.5 |
| 42.5° | 58.3 | 58.3 | 59.7 | 60.7 | 60.7 | 60.2 | 59.2 | 58.3 | 57.3 | 56.4 | 56.9 |
| 45° | 48.8 | 48.3 | 50.7 | 52.6 | 51.7 | 50.7 | 50.7 | 50.2 | 50.2 | 49.8 | 50.2 |
| 47.5° | 40.3 | 39.8 | 41.7 | 43.6 | 43.1 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.7 |
| 50° | 33.6 | 32.7 | 34.6 | 36.0 | 35.5 | 34.6 | 34.6 | 35.1 | 35.1 | 35.1 | 35.5 |
| 52.5° | 28.9 | 28.0 | 29.4 | 30.3 | 29.9 | 29.4 | 29.4 | 29.9 | 29.9 | 29.9 | 30.3 |
| 55° | 25.6 | 24.6 | 26.1 | 27.0 | 26.5 | 25.6 | 26.1 | 26.1 | 26.5 | 26.5 | 26.5 |
| 57.5° | 22.7 | 21.3 | 22.3 | 23.2 | 23.2 | 22.7 | 23.2 | 23.2 | 23.7 | 23.7 | 23.7 |
| 60° | 20.9 | 19.4 | 20.4 | 20.9 | 20.9 | 20.4 | 20.9 | 20.9 | 21.3 | 21.3 | 21.3 |
| 62.5° | 18.5 | 17.1 | 18.0 | 18.5 | 18.5 | 18.0 | 18.5 | 18.5 | 19.0 | 19.0 | 19.0 |
| 65° | 16.6 | 15.2 | 15.6 | 16.1 | 16.1 | 16.1 | 16.6 | 16.6 | 17.1 | 17.1 | 17.1 |
| 67.5° | 15.6 | 13.7 | 14.2 | 14.7 | 14.7 | 14.7 | 15.2 | 15.2 | 15.6 | 15.6 | 16.1 |
| 70° | 15.2 | 13.3 | 13.7 | 13.7 | 14.2 | 14.2 | 14.2 | 14.7 | 14.7 | 14.7 | 14.7 |
| 72.5° | 14.7 | 12.8 | 12.8 | 12.8 | 13.3 | 13.3 | 13.3 | 13.7 | 13.7 | 13.7 | 13.7 |
| 75° | 14.7 | 12.8 | 12.3 | 11.8 | 12.3 | 12.3 | 12.3 | 12.8 | 12.8 | 12.8 | 12.8 |
| 77.5° | 12.8 | 10.4 | 9.5 | 8.1 | 9.5 | 10.4 | 10.9 | 10.9 | 11.4 | 11.4 | 11.4 |
| 80° | 5.2 | 2.4 | 1.4 | 0.0 | 0.5 | 0.9 | 1.4 | 1.9 | 2.4 | 2.8 | 3.3 |
| 82.5° | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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: P596751
 CATALOG NUMBER: MSA-SA4A-827-U-SLR-HSS

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: P596751
 CATALOG NUMBER: MSA-SA4A-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 110° | 112.5° | 115° | 117.5° | 120° | 122.5° | 125° | 127.5° | 130° | 132.5° | 135° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 |
| 2.5° | 939.3 | 915.6 | 891.9 | 903.3 | 914.7 | 926.0 | 937.4 | 936.5 | 935.1 | 934.1 | 932.7 |
| 5° | 956.9 | 955.4 | 954.0 | 947.4 | 941.2 | 934.6 | 927.9 | 926.5 | 924.6 | 923.2 | 921.3 |
| 7.5° | 804.7 | 807.1 | 809.9 | 802.4 | 794.8 | 787.2 | 779.6 | 760.2 | 740.7 | 720.8 | 701.4 |
| 10° | 602.8 | 591.5 | 580.6 | 579.6 | 578.7 | 577.7 | 576.8 | 574.9 | 573.0 | 570.6 | 568.7 |
| 12.5° | 426.1 | 432.7 | 439.3 | 437.0 | 434.6 | 431.7 | 429.4 | 432.7 | 436.5 | 439.8 | 443.1 |
| 15° | 259.7 | 264.0 | 267.8 | 276.3 | 284.8 | 293.4 | 301.9 | 305.2 | 309.0 | 312.3 | 315.6 |
| 17.5° | 169.2 | 169.7 | 170.6 | 180.1 | 189.1 | 198.6 | 207.6 | 213.7 | 219.9 | 225.6 | 231.7 |
| 20° | 137.9 | 136.5 | 135.1 | 140.3 | 145.5 | 150.7 | 155.9 | 161.6 | 167.3 | 173.0 | 178.7 |
| 22.5° | 122.7 | 121.8 | 120.9 | 122.7 | 124.6 | 126.1 | 128.0 | 132.2 | 137.0 | 141.2 | 145.5 |
| 25° | 112.8 | 111.8 | 111.4 | 112.3 | 113.3 | 114.2 | 115.2 | 117.5 | 119.9 | 122.3 | 124.6 |
| 27.5° | 101.4 | 101.9 | 101.9 | 102.8 | 103.3 | 104.3 | 104.7 | 105.7 | 107.1 | 108.1 | 109.0 |
| 30° | 92.9 | 93.8 | 94.3 | 95.3 | 95.7 | 96.7 | 97.2 | 96.7 | 96.2 | 95.7 | 95.3 |
| 32.5° | 84.8 | 84.4 | 84.4 | 85.3 | 85.8 | 86.7 | 87.2 | 88.1 | 89.1 | 89.6 | 90.5 |
| 35° | 76.8 | 77.2 | 77.2 | 77.2 | 77.7 | 77.7 | 77.7 | 78.7 | 80.1 | 81.0 | 82.0 |
| 37.5° | 69.7 | 69.7 | 69.2 | 70.6 | 71.6 | 73.0 | 73.9 | 74.9 | 76.3 | 77.2 | 78.2 |
| 40° | 63.5 | 63.5 | 63.5 | 64.5 | 65.4 | 65.9 | 66.8 | 69.2 | 71.6 | 73.9 | 76.3 |
| 42.5° | 56.9 | 57.3 | 57.3 | 58.3 | 59.2 | 59.7 | 60.7 | 62.6 | 64.0 | 65.9 | 67.3 |
| 45° | 50.7 | 51.2 | 51.7 | 52.6 | 53.1 | 54.0 | 54.5 | 55.4 | 55.9 | 56.9 | 57.3 |
| 47.5° | 43.6 | 44.1 | 44.5 | 45.5 | 46.0 | 46.9 | 47.4 | 46.9 | 46.9 | 46.4 | 46.0 |
| 50° | 36.5 | 37.0 | 37.4 | 38.9 | 39.8 | 41.2 | 42.2 | 41.2 | 40.3 | 38.9 | 37.9 |
| 52.5° | 30.8 | 30.8 | 31.3 | 32.2 | 33.2 | 33.6 | 34.6 | 34.1 | 33.6 | 33.2 | 32.7 |
| 55° | 26.5 | 26.5 | 26.5 | 27.0 | 27.5 | 28.0 | 28.4 | 28.9 | 28.9 | 29.4 | 29.4 |
| 57.5° | 23.7 | 23.2 | 23.2 | 23.7 | 24.2 | 24.2 | 24.6 | 25.1 | 25.1 | 25.6 | 25.6 |
| 60° | 21.3 | 20.9 | 20.9 | 21.3 | 21.8 | 22.3 | 22.7 | 22.7 | 22.7 | 22.3 | 22.3 |
| 62.5° | 19.0 | 19.0 | 19.0 | 19.4 | 19.4 | 19.9 | 19.9 | 19.9 | 20.4 | 20.4 | 20.4 |
| 65° | 17.5 | 17.5 | 17.5 | 17.5 | 17.5 | 17.1 | 17.1 | 17.5 | 17.5 | 18.0 | 18.0 |
| 67.5° | 16.1 | 16.6 | 16.6 | 16.1 | 15.6 | 15.2 | 14.7 | 15.2 | 15.2 | 15.6 | 15.6 |
| 70° | 14.7 | 14.7 | 14.7 | 14.2 | 13.7 | 13.3 | 12.8 | 12.8 | 12.8 | 12.3 | 12.3 |
| 72.5° | 13.7 | 13.3 | 13.3 | 12.8 | 11.8 | 11.4 | 10.4 | 10.0 | 10.0 | 9.5 | 9.0 |
| 75° | 12.8 | 12.3 | 12.3 | 11.4 | 10.4 | 9.5 | 8.5 | 8.1 | 7.1 | 6.6 | 5.7 |
| 77.5° | 11.4 | 11.4 | 11.4 | 10.0 | 9.0 | 7.6 | 6.2 | 5.2 | 4.3 | 2.8 | 1.9 |
| 80° | 3.8 | 4.3 | 4.7 | 4.3 | 4.3 | 3.8 | 3.3 | 2.4 | 1.9 | 0.9 | 0.0 |
| 82.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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: P596751
 CATALOG NUMBER: MSA-SA4A-827-U-SLR-HSS

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: P596751
 CATALOG NUMBER: MSA-SA4A-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 137.5° | 140° | 142.5° | 145° | 147.5° | 150° | 152.5° | 155° | 157.5° | 160° | 162.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 |
| 2.5° | 937.9 | 943.1 | 948.3 | 953.5 | 954.0 | 954.5 | 955.0 | 955.4 | 943.6 | 931.3 | 919.4 |
| 5° | 930.8 | 940.7 | 950.2 | 959.7 | 954.5 | 949.3 | 944.1 | 938.8 | 938.4 | 938.4 | 937.9 |
| 7.5° | 702.8 | 703.8 | 705.2 | 706.1 | 708.0 | 709.9 | 711.4 | 713.3 | 720.8 | 728.4 | 735.5 |
| 10° | 562.5 | 556.4 | 549.8 | 543.6 | 538.9 | 533.6 | 528.9 | 523.7 | 527.5 | 531.7 | 535.5 |
| 12.5° | 437.9 | 432.7 | 427.0 | 421.8 | 419.9 | 418.0 | 415.6 | 413.7 | 426.1 | 438.4 | 450.2 |
| 15° | 314.7 | 313.7 | 312.3 | 311.4 | 317.5 | 323.7 | 329.9 | 336.0 | 346.4 | 356.4 | 366.8 |
| 17.5° | 234.1 | 236.5 | 238.9 | 241.2 | 245.0 | 248.8 | 252.1 | 255.9 | 263.5 | 271.6 | 279.1 |
| 20° | 181.5 | 184.8 | 187.7 | 190.5 | 189.6 | 188.6 | 187.2 | 186.3 | 192.4 | 198.6 | 204.3 |
| 22.5° | 148.3 | 150.7 | 153.6 | 155.9 | 156.4 | 156.9 | 157.3 | 157.8 | 161.6 | 164.9 | 168.7 |
| 25° | 127.0 | 129.9 | 132.2 | 134.6 | 135.1 | 135.5 | 136.0 | 136.5 | 141.2 | 146.0 | 150.2 |
| 27.5° | 112.3 | 115.2 | 118.5 | 121.3 | 122.3 | 123.2 | 124.2 | 125.1 | 128.0 | 130.3 | 133.2 |
| 30° | 99.1 | 102.8 | 106.6 | 110.4 | 111.8 | 113.3 | 114.7 | 116.1 | 119.0 | 122.3 | 125.1 |
| 32.5° | 92.4 | 94.8 | 96.7 | 98.6 | 101.9 | 104.7 | 108.1 | 110.9 | 114.2 | 118.0 | 121.3 |
| 35° | 84.8 | 87.2 | 90.0 | 92.4 | 94.8 | 97.2 | 99.1 | 101.4 | 103.3 | 105.2 | 106.6 |
| 37.5° | 80.1 | 82.5 | 84.4 | 86.3 | 87.2 | 88.1 | 88.6 | 89.6 | 90.5 | 91.5 | 91.9 |
| 40° | 76.3 | 75.8 | 75.8 | 75.4 | 76.3 | 77.7 | 78.7 | 79.6 | 82.5 | 84.8 | 87.7 |
| 42.5° | 66.3 | 64.9 | 64.0 | 62.6 | 64.9 | 66.8 | 69.2 | 71.1 | 74.9 | 78.7 | 82.5 |
| 45° | 56.4 | 55.4 | 54.0 | 53.1 | 56.4 | 59.7 | 63.0 | 66.3 | 70.6 | 74.4 | 78.7 |
| 47.5° | 46.4 | 46.9 | 46.9 | 47.4 | 50.7 | 54.0 | 56.9 | 60.2 | 64.5 | 68.7 | 73.0 |
| 50° | 38.9 | 39.8 | 40.8 | 41.7 | 45.0 | 47.9 | 51.2 | 54.0 | 58.8 | 63.0 | 67.8 |
| 52.5° | 34.1 | 35.5 | 36.5 | 37.9 | 40.8 | 44.1 | 46.9 | 49.8 | 54.0 | 58.3 | 62.6 |
| 55° | 30.8 | 32.7 | 34.1 | 35.5 | 37.9 | 40.3 | 42.7 | 45.0 | 49.3 | 53.6 | 57.3 |
| 57.5° | 27.0 | 28.4 | 29.9 | 31.3 | 33.6 | 36.0 | 37.9 | 40.3 | 44.1 | 48.3 | 52.1 |
| 60° | 23.7 | 24.6 | 26.1 | 27.0 | 28.9 | 31.3 | 33.2 | 35.1 | 38.9 | 42.7 | 46.0 |
| 62.5° | 20.9 | 21.8 | 22.3 | 22.7 | 24.6 | 26.5 | 28.4 | 30.3 | 33.6 | 37.4 | 40.8 |
| 65° | 18.5 | 19.0 | 19.0 | 19.4 | 20.9 | 22.7 | 24.2 | 25.6 | 29.4 | 32.7 | 36.5 |
| 67.5° | 15.6 | 16.1 | 16.1 | 16.1 | 17.5 | 19.0 | 20.4 | 21.8 | 25.1 | 28.9 | 32.2 |
| 70° | 12.3 | 12.8 | 12.8 | 12.8 | 14.2 | 16.1 | 17.5 | 19.0 | 21.8 | 24.6 | 27.5 |
| 72.5° | 9.5 | 9.5 | 10.0 | 10.0 | 11.4 | 13.3 | 14.7 | 16.1 | 18.5 | 20.9 | 23.2 |
| 75° | 6.2 | 6.6 | 6.6 | 7.1 | 8.5 | 10.4 | 11.8 | 13.3 | 15.6 | 18.0 | 19.9 |
| 77.5° | 2.4 | 3.3 | 3.8 | 4.3 | 5.7 | 7.1 | 8.5 | 10.0 | 11.8 | 14.2 | 16.1 |
| 80° | 0.0 | 0.5 | 0.5 | 0.5 | 1.4 | 1.9 | 2.8 | 3.3 | 4.7 | 6.6 | 8.1 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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: P596751
 CATALOG NUMBER: MSA-SA4A-827-U-SLR-HSS

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 |



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 CATALOG NUMBER: MSA-SA4A-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 165° | 167.5° | 170° | 172.5° | 175° | 177.5° | 180° | 182.5° | 185° | 187.5° | 190° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 |
| 2.5° | 907.1 | 933.2 | 959.2 | 985.3 | 1011.4 | 1043.6 | 1075.8 | 1080.5 | 1085.3 | 1079.6 | 1074.4 |
| 5° | 937.4 | 950.2 | 962.5 | 975.3 | 987.7 | 1024.6 | 1061.1 | 1061.6 | 1061.6 | 1062.1 | 1062.1 |
| 7.5° | 743.1 | 754.0 | 764.9 | 775.3 | 786.2 | 810.4 | 834.6 | 843.6 | 852.1 | 850.2 | 848.3 |
| 10° | 539.3 | 553.5 | 567.3 | 581.5 | 595.2 | 617.5 | 639.8 | 648.3 | 656.4 | 682.5 | 709.0 |
| 12.5° | 462.6 | 476.3 | 490.0 | 503.3 | 517.1 | 539.8 | 562.5 | 579.1 | 595.2 | 611.4 | 627.5 |
| 15° | 376.8 | 387.7 | 399.0 | 409.9 | 420.8 | 431.3 | 441.7 | 462.1 | 482.0 | 498.1 | 514.2 |
| 17.5° | 286.7 | 291.5 | 295.7 | 300.5 | 304.7 | 309.5 | 314.2 | 322.7 | 330.8 | 345.0 | 358.8 |
| 20° | 210.4 | 214.2 | 218.0 | 221.3 | 225.1 | 229.9 | 234.6 | 240.8 | 246.4 | 249.8 | 252.6 |
| 22.5° | 172.0 | 177.7 | 183.4 | 188.6 | 194.3 | 197.6 | 200.9 | 202.8 | 204.7 | 206.2 | 207.6 |
| 25° | 155.0 | 160.2 | 164.9 | 170.1 | 174.9 | 176.3 | 177.7 | 181.5 | 185.3 | 185.3 | 185.3 |
| 27.5° | 135.5 | 142.7 | 150.2 | 157.3 | 164.5 | 166.3 | 167.8 | 169.2 | 170.1 | 168.2 | 165.9 |
| 30° | 128.0 | 135.1 | 142.2 | 148.8 | 155.9 | 158.8 | 161.1 | 162.6 | 164.0 | 161.6 | 159.2 |
| 32.5° | 124.6 | 131.3 | 137.4 | 144.1 | 150.2 | 154.0 | 157.3 | 161.1 | 164.5 | 164.9 | 165.9 |
| 35° | 108.5 | 112.8 | 117.5 | 121.8 | 126.1 | 128.0 | 129.9 | 131.3 | 132.2 | 132.2 | 132.2 |
| 37.5° | 92.9 | 98.6 | 104.7 | 110.4 | 116.1 | 120.4 | 124.6 | 125.1 | 125.1 | 126.1 | 127.5 |
| 40° | 90.0 | 95.7 | 101.4 | 106.6 | 112.3 | 117.1 | 121.3 | 121.8 | 122.3 | 123.2 | 124.2 |
| 42.5° | 86.3 | 92.4 | 98.6 | 104.7 | 110.9 | 115.6 | 119.9 | 119.9 | 119.4 | 120.9 | 121.8 |
| 45° | 82.5 | 88.6 | 94.3 | 100.5 | 106.2 | 112.3 | 118.0 | 116.6 | 114.7 | 117.1 | 119.0 |
| 47.5° | 77.2 | 83.9 | 90.5 | 96.7 | 103.3 | 109.0 | 114.2 | 113.3 | 111.8 | 114.2 | 116.6 |
| 50° | 72.0 | 78.7 | 85.3 | 91.9 | 98.6 | 104.7 | 110.4 | 109.5 | 108.5 | 111.4 | 113.7 |
| 52.5° | 66.8 | 73.5 | 80.6 | 87.2 | 93.8 | 99.1 | 103.8 | 103.3 | 102.8 | 105.7 | 109.0 |
| 55° | 61.6 | 67.8 | 74.4 | 80.6 | 86.7 | 92.4 | 97.6 | 96.7 | 95.7 | 98.1 | 100.5 |
| 57.5° | 55.9 | 62.1 | 67.8 | 73.9 | 79.6 | 84.4 | 88.6 | 87.2 | 85.8 | 88.6 | 91.5 |
| 60° | 49.8 | 55.4 | 61.1 | 66.3 | 72.0 | 75.8 | 79.1 | 78.2 | 76.8 | 79.6 | 82.5 |
| 62.5° | 44.1 | 49.3 | 54.5 | 59.2 | 64.5 | 67.3 | 70.1 | 69.2 | 68.2 | 71.1 | 74.4 |
| 65° | 39.8 | 44.1 | 47.9 | 52.1 | 55.9 | 58.8 | 61.6 | 60.2 | 58.8 | 62.1 | 64.9 |
| 67.5° | 35.5 | 38.9 | 42.7 | 46.0 | 49.3 | 51.7 | 54.0 | 53.1 | 51.7 | 54.0 | 56.4 |
| 70° | 30.3 | 33.6 | 37.0 | 39.8 | 43.1 | 45.5 | 47.9 | 46.4 | 44.5 | 46.9 | 49.3 |
| 72.5° | 25.6 | 28.4 | 31.3 | 33.6 | 36.5 | 38.4 | 40.3 | 38.9 | 37.4 | 39.3 | 41.2 |
| 75° | 22.3 | 24.6 | 27.0 | 28.9 | 31.3 | 32.2 | 33.2 | 32.7 | 31.8 | 33.6 | 35.1 |
| 77.5° | 18.0 | 19.9 | 22.3 | 24.2 | 26.1 | 26.1 | 26.1 | 26.5 | 26.5 | 28.4 | 30.8 |
| 80° | 9.5 | 11.4 | 13.3 | 14.7 | 16.6 | 16.6 | 16.1 | 17.1 | 17.5 | 19.9 | 22.3 |
| 82.5° | 0.0 | 1.4 | 2.8 | 4.3 | 5.7 | 5.2 | 4.3 | 4.7 | 4.7 | 5.7 | 6.6 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.9 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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: P596751
 CATALOG NUMBER: MSA-SA4A-827-U-SLR-HSS

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: P596751
 CATALOG NUMBER: MSA-SA4A-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 192.5° | 195° | 197.5° | 200° | 202.5° | 205° | 207.5° | 210° | 212.5° | 215° | 217.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 |
| 2.5° | 1068.7 | 1063.0 | 1059.2 | 1055.9 | 1052.1 | 1048.3 | 1053.1 | 1057.8 | 1062.1 | 1066.8 | 1081.0 |
| 5° | 1062.5 | 1062.5 | 1059.2 | 1055.9 | 1052.6 | 1049.3 | 1056.4 | 1063.0 | 1070.1 | 1076.8 | 1076.3 |
| 7.5° | 846.0 | 844.1 | 864.0 | 883.4 | 903.3 | 922.7 | 927.9 | 933.2 | 937.9 | 943.1 | 941.7 |
| 10° | 735.1 | 761.1 | 769.7 | 778.2 | 786.7 | 795.2 | 805.7 | 816.1 | 826.5 | 837.0 | 840.7 |
| 12.5° | 643.6 | 659.7 | 687.2 | 714.2 | 741.7 | 768.7 | 782.4 | 796.7 | 810.4 | 824.2 | 851.2 |
| 15° | 530.3 | 546.4 | 570.1 | 593.8 | 617.5 | 641.2 | 663.0 | 685.3 | 707.1 | 728.9 | 761.6 |
| 17.5° | 373.0 | 386.7 | 404.7 | 422.7 | 440.3 | 458.3 | 491.9 | 525.6 | 559.2 | 592.9 | 627.5 |
| 20° | 255.9 | 258.8 | 267.3 | 276.3 | 284.8 | 293.4 | 323.7 | 354.5 | 384.8 | 415.2 | 460.7 |
| 22.5° | 208.5 | 209.9 | 214.2 | 218.5 | 222.3 | 226.5 | 242.2 | 258.3 | 273.9 | 289.6 | 326.5 |
| 25° | 184.8 | 184.8 | 187.7 | 190.5 | 193.4 | 196.2 | 204.7 | 213.3 | 221.3 | 229.9 | 253.5 |
| 27.5° | 164.0 | 161.6 | 165.9 | 170.1 | 174.4 | 178.7 | 184.8 | 191.5 | 197.6 | 203.8 | 219.9 |
| 30° | 156.9 | 154.5 | 159.7 | 164.9 | 170.1 | 175.4 | 181.5 | 187.7 | 193.4 | 199.5 | 210.4 |
| 32.5° | 166.3 | 166.8 | 168.7 | 170.6 | 172.0 | 173.9 | 176.8 | 180.1 | 182.9 | 185.8 | 195.3 |
| 35° | 132.2 | 132.2 | 135.5 | 138.9 | 141.7 | 145.0 | 150.2 | 155.4 | 160.7 | 165.9 | 175.8 |
| 37.5° | 128.4 | 129.4 | 132.2 | 135.5 | 138.4 | 141.2 | 147.9 | 155.0 | 161.6 | 168.2 | 176.3 |
| 40° | 124.6 | 125.6 | 129.4 | 133.2 | 137.0 | 140.8 | 147.4 | 153.6 | 160.2 | 166.3 | 173.9 |
| 42.5° | 123.2 | 124.2 | 128.9 | 134.1 | 138.9 | 143.6 | 149.3 | 155.0 | 160.2 | 165.9 | 176.3 |
| 45° | 121.3 | 123.2 | 128.9 | 135.1 | 140.8 | 146.4 | 151.7 | 156.9 | 162.1 | 167.3 | 180.1 |
| 47.5° | 118.5 | 120.9 | 127.5 | 133.6 | 140.3 | 146.4 | 156.4 | 166.8 | 176.8 | 186.7 | 192.9 |
| 50° | 116.6 | 119.0 | 126.1 | 133.2 | 140.3 | 147.4 | 163.5 | 179.6 | 195.3 | 211.4 | 208.1 |
| 52.5° | 111.8 | 114.7 | 123.7 | 132.7 | 141.7 | 150.7 | 164.9 | 179.1 | 193.4 | 207.6 | 200.9 |
| 55° | 102.8 | 105.2 | 115.6 | 126.1 | 136.0 | 146.4 | 156.9 | 167.3 | 177.2 | 187.7 | 180.1 |
| 57.5° | 93.8 | 96.7 | 106.6 | 116.6 | 126.1 | 136.0 | 141.2 | 146.4 | 151.7 | 156.9 | 154.0 |
| 60° | 85.3 | 88.1 | 101.4 | 114.7 | 128.0 | 141.2 | 136.5 | 131.8 | 126.5 | 121.8 | 125.1 |
| 62.5° | 77.2 | 80.1 | 92.9 | 105.2 | 118.0 | 130.3 | 123.7 | 117.1 | 110.4 | 103.8 | 109.0 |
| 65° | 68.2 | 71.1 | 75.8 | 81.0 | 85.8 | 90.5 | 90.0 | 89.1 | 88.6 | 87.7 | 93.4 |
| 67.5° | 58.8 | 61.1 | 63.5 | 66.3 | 68.7 | 71.1 | 72.5 | 74.4 | 75.8 | 77.2 | 82.0 |
| 70° | 51.2 | 53.6 | 56.4 | 58.8 | 61.6 | 64.0 | 64.9 | 65.9 | 66.3 | 67.3 | 71.6 |
| 72.5° | 42.7 | 44.5 | 48.3 | 52.1 | 55.4 | 59.2 | 59.7 | 59.7 | 60.2 | 60.2 | 63.5 |
| 75° | 37.0 | 38.4 | 41.2 | 44.1 | 46.4 | 49.3 | 50.7 | 52.1 | 53.1 | 54.5 | 56.4 |
| 77.5° | 32.7 | 34.6 | 35.5 | 36.0 | 37.0 | 37.4 | 38.4 | 39.3 | 40.3 | 41.2 | 41.7 |
| 80° | 24.2 | 26.5 | 27.5 | 28.0 | 28.9 | 29.4 | 29.4 | 28.9 | 28.9 | 28.4 | 28.9 |
| 82.5° | 7.6 | 8.5 | 10.0 | 11.4 | 12.8 | 14.2 | 14.7 | 15.2 | 15.2 | 15.6 | 15.2 |
| 85° | 1.4 | 1.9 | 2.8 | 3.8 | 4.3 | 5.2 | 4.7 | 3.8 | 3.3 | 2.4 | 1.9 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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: P596751
 CATALOG NUMBER: MSA-SA4A-827-U-SLR-HSS

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: P596751
 CATALOG NUMBER: MSA-SA4A-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 220° | 222.5° | 225° | 227.5° | 230° | 232.5° | 235° | 237.5° | 240° | 242.5° | 245° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 |
| 2.5° | 1095.2 | 1109.0 | 1123.2 | 1117.5 | 1111.8 | 1106.1 | 1100.5 | 1101.4 | 1102.8 | 1103.8 | 1104.7 |
| 5° | 1075.8 | 1074.9 | 1074.4 | 1090.5 | 1107.1 | 1123.2 | 1139.3 | 1156.8 | 1174.9 | 1192.4 | 1209.9 |
| 7.5° | 940.3 | 938.4 | 936.9 | 957.8 | 978.7 | 999.5 | 1020.4 | 1044.5 | 1069.2 | 1093.3 | 1117.5 |
| 10° | 844.5 | 848.3 | 852.1 | 860.6 | 869.7 | 878.2 | 886.7 | 909.9 | 933.2 | 955.9 | 979.1 |
| 12.5° | 878.2 | 904.7 | 931.7 | 936.9 | 941.7 | 946.9 | 951.6 | 955.0 | 958.3 | 961.6 | 964.9 |
| 15° | 794.8 | 827.5 | 860.2 | 873.9 | 887.2 | 900.9 | 914.2 | 949.3 | 983.9 | 1018.9 | 1053.5 |
| 17.5° | 662.1 | 696.2 | 730.8 | 772.0 | 813.3 | 854.5 | 895.7 | 933.6 | 971.5 | 1009.5 | 1047.4 |
| 20° | 506.6 | 552.1 | 597.6 | 649.8 | 702.4 | 754.5 | 806.6 | 844.5 | 882.0 | 919.9 | 957.3 |
| 22.5° | 364.0 | 400.9 | 437.9 | 500.9 | 563.5 | 626.5 | 689.1 | 755.0 | 821.3 | 887.2 | 953.1 |
| 25° | 277.2 | 300.5 | 324.2 | 386.2 | 448.3 | 509.9 | 572.0 | 662.5 | 753.1 | 843.6 | 934.1 |
| 27.5° | 235.5 | 251.7 | 267.3 | 323.2 | 379.1 | 434.6 | 490.5 | 598.1 | 705.7 | 813.3 | 920.8 |
| 30° | 221.8 | 232.7 | 243.6 | 291.0 | 338.9 | 386.2 | 433.6 | 542.6 | 651.6 | 760.6 | 869.7 |
| 32.5° | 204.7 | 213.7 | 223.2 | 264.9 | 306.6 | 347.9 | 389.6 | 496.2 | 602.8 | 709.0 | 815.6 |
| 35° | 185.3 | 195.3 | 204.7 | 246.4 | 288.1 | 329.4 | 371.1 | 481.5 | 591.9 | 702.4 | 812.8 |
| 37.5° | 183.9 | 191.9 | 199.5 | 247.9 | 296.7 | 345.0 | 393.4 | 503.8 | 614.2 | 724.2 | 834.6 |
| 40° | 182.0 | 189.6 | 197.2 | 246.4 | 295.3 | 344.5 | 393.4 | 509.0 | 624.6 | 740.3 | 855.9 |
| 42.5° | 186.7 | 196.7 | 207.1 | 250.7 | 294.3 | 337.4 | 381.0 | 502.8 | 624.6 | 746.0 | 867.8 |
| 45° | 193.4 | 206.2 | 219.0 | 258.8 | 298.6 | 338.4 | 378.2 | 510.4 | 642.6 | 774.4 | 906.6 |
| 47.5° | 199.5 | 205.7 | 211.8 | 249.8 | 287.2 | 325.1 | 362.6 | 497.6 | 632.7 | 767.8 | 902.8 |
| 50° | 205.2 | 201.9 | 198.6 | 240.3 | 282.0 | 323.2 | 364.9 | 493.8 | 622.3 | 751.2 | 879.6 |
| 52.5° | 193.8 | 187.2 | 180.1 | 224.6 | 269.2 | 313.3 | 357.8 | 487.7 | 617.5 | 747.4 | 877.2 |
| 55° | 172.5 | 164.9 | 157.3 | 201.4 | 245.0 | 289.1 | 332.7 | 462.1 | 591.5 | 720.8 | 850.2 |
| 57.5° | 150.7 | 147.9 | 144.5 | 178.2 | 211.8 | 245.0 | 278.7 | 422.3 | 566.3 | 709.9 | 853.5 |
| 60° | 128.4 | 131.3 | 134.6 | 158.8 | 182.9 | 206.6 | 230.8 | 371.6 | 511.8 | 652.6 | 792.9 |
| 62.5° | 113.7 | 119.0 | 123.7 | 144.1 | 164.9 | 185.3 | 205.7 | 338.4 | 471.1 | 603.8 | 736.5 |
| 65° | 99.5 | 105.2 | 110.9 | 135.1 | 159.7 | 183.9 | 208.1 | 320.4 | 432.7 | 545.0 | 657.3 |
| 67.5° | 86.7 | 91.0 | 95.7 | 127.5 | 159.2 | 191.0 | 222.7 | 314.7 | 406.2 | 498.1 | 589.6 |
| 70° | 75.8 | 79.6 | 83.9 | 120.9 | 157.8 | 194.8 | 231.7 | 309.9 | 388.6 | 466.8 | 545.0 |
| 72.5° | 66.8 | 70.1 | 73.5 | 110.9 | 148.3 | 185.8 | 223.2 | 292.9 | 362.1 | 431.7 | 500.9 |
| 75° | 58.3 | 59.7 | 61.6 | 93.4 | 124.6 | 156.4 | 187.7 | 234.1 | 281.0 | 327.5 | 373.9 |
| 77.5° | 42.2 | 42.2 | 42.7 | 52.1 | 61.1 | 70.6 | 79.6 | 108.5 | 137.4 | 165.9 | 194.8 |
| 80° | 28.9 | 29.4 | 29.4 | 33.2 | 36.5 | 40.3 | 43.6 | 49.8 | 55.4 | 61.6 | 67.3 |
| 82.5° | 14.7 | 13.7 | 13.3 | 17.1 | 20.9 | 24.6 | 28.4 | 29.9 | 30.8 | 32.2 | 33.2 |
| 85° | 1.4 | 0.5 | 0.0 | 2.4 | 4.7 | 7.1 | 9.5 | 11.4 | 13.3 | 15.2 | 17.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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: P596751
 CATALOG NUMBER: MSA-SA4A-827-U-SLR-HSS

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: P596751

CATALOG NUMBER: MSA-SA4A-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 247.5° | 250° | 252.5° | 255° | 257.5° | 260° | 262.5° | 265° | 267.5° | 270° | 272.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 |
| 2.5° | 1100.9 | 1097.1 | 1093.3 | 1089.6 | 1112.8 | 1136.5 | 1159.7 | 1182.9 | 1248.8 | 1291.9 | 1287.2 |
| 5° | 1227.0 | 1244.1 | 1261.1 | 1278.2 | 1305.7 | 1333.6 | 1361.1 | 1388.6 | 1486.2 | 1545.9 | 1554.5 |
| 7.5° | 1144.1 | 1170.1 | 1196.7 | 1222.7 | 1275.8 | 1328.4 | 1381.5 | 1434.1 | 1514.2 | 1576.3 | 1611.3 |
| 10° | 1009.0 | 1038.8 | 1068.2 | 1098.1 | 1157.8 | 1218.0 | 1277.7 | 1337.4 | 1427.5 | 1513.2 | 1557.3 |
| 12.5° | 1011.8 | 1058.7 | 1105.7 | 1152.6 | 1204.7 | 1256.8 | 1308.5 | 1360.6 | 1415.6 | 1444.5 | 1506.6 |
| 15° | 1090.5 | 1127.5 | 1164.4 | 1201.4 | 1269.6 | 1337.9 | 1405.7 | 1473.9 | 1506.6 | 1576.3 | 1648.8 |
| 17.5° | 1119.4 | 1191.9 | 1264.0 | 1336.0 | 1421.3 | 1506.1 | 1591.4 | 1676.3 | 1737.9 | 1834.6 | 1909.4 |
| 20° | 1065.9 | 1174.4 | 1282.4 | 1391.0 | 1508.0 | 1625.1 | 1742.1 | 1859.2 | 1926.5 | 2018.4 | 2134.1 |
| 22.5° | 1068.2 | 1183.4 | 1298.1 | 1413.2 | 1574.9 | 1736.0 | 1897.6 | 2058.7 | 2239.3 | 2416.5 | 2472.9 |
| 25° | 1084.8 | 1235.5 | 1385.8 | 1536.5 | 1723.2 | 1909.9 | 2096.6 | 2283.4 | 2501.4 | 2687.6 | 2762.5 |
| 27.5° | 1090.5 | 1260.2 | 1429.4 | 1599.0 | 1864.4 | 2129.8 | 2395.2 | 2660.6 | 2920.8 | 3131.2 | 3211.3 |
| 30° | 1076.8 | 1284.3 | 1491.4 | 1698.5 | 2024.1 | 2349.7 | 2675.3 | 3000.9 | 3247.8 | 3492.8 | 3592.3 |
| 32.5° | 1080.1 | 1344.5 | 1609.0 | 1873.4 | 2256.8 | 2640.7 | 3024.1 | 3407.5 | 3565.3 | 3786.2 | 3961.5 |
| 35° | 1102.8 | 1392.9 | 1682.4 | 1972.5 | 2396.6 | 2820.8 | 3245.0 | 3669.1 | 3927.9 | 4161.1 | 4309.9 |
| 37.5° | 1155.9 | 1477.2 | 1798.1 | 2119.4 | 2640.7 | 3162.5 | 3683.8 | 4205.1 | 4605.6 | 5006.1 | 5074.3 |
| 40° | 1195.2 | 1534.6 | 1873.9 | 2213.2 | 2818.4 | 3423.6 | 4028.8 | 4634.0 | 5087.1 | 5521.7 | 5568.1 |
| 42.5° | 1239.8 | 1611.3 | 1983.4 | 2354.9 | 3031.7 | 3708.5 | 4385.2 | 5062.0 | 5586.6 | 6029.7 | 6060.5 |
| 45° | 1288.6 | 1671.1 | 2053.0 | 2435.0 | 3144.0 | 3852.5 | 4561.5 | 5270.0 | 5882.8 | 6397.5 | 6281.4 |
| 47.5° | 1311.8 | 1720.8 | 2129.8 | 2538.8 | 3299.0 | 4058.7 | 4818.9 | 5578.6 | 6128.3 | 6582.3 | 6446.8 |
| 50° | 1329.8 | 1779.6 | 2229.8 | 2679.6 | 3476.7 | 4273.8 | 5071.0 | 5868.1 | 6419.3 | 6838.3 | 6625.9 |
| 52.5° | 1380.5 | 1883.4 | 2386.7 | 2889.5 | 3737.4 | 4584.7 | 5432.6 | 6280.0 | 6813.1 | 7198.0 | 6900.3 |
| 55° | 1429.8 | 2009.0 | 2588.6 | 3167.7 | 4079.5 | 4991.8 | 5903.7 | 6815.5 | 7346.3 | 7676.2 | 7271.9 |
| 57.5° | 1491.9 | 2130.8 | 2769.1 | 3407.5 | 4382.9 | 5358.2 | 6333.1 | 7308.4 | 7827.3 | 8191.8 | 7771.9 |
| 60° | 1475.8 | 2158.3 | 2841.2 | 3523.6 | 4517.0 | 5510.3 | 6503.7 | 7497.0 | 8113.6 | 8561.4 | 8276.6 |
| 62.5° | 1413.2 | 2090.0 | 2766.3 | 3443.1 | 4418.9 | 5394.2 | 6370.0 | 7345.4 | 8084.2 | 8690.8 | 8595.1 |
| 65° | 1286.7 | 1915.6 | 2545.0 | 3173.9 | 4105.6 | 5037.8 | 5969.6 | 6901.3 | 7813.1 | 8585.1 | 8619.3 |
| 67.5° | 1120.4 | 1651.2 | 2181.5 | 2712.3 | 3581.4 | 4450.6 | 5319.3 | 6188.5 | 7264.8 | 8165.2 | 8266.7 |
| 70° | 944.1 | 1342.6 | 1741.7 | 2140.2 | 2905.2 | 3670.1 | 4434.5 | 5199.4 | 6318.4 | 7224.5 | 7416.0 |
| 72.5° | 756.9 | 1013.3 | 1269.2 | 1525.1 | 2077.2 | 2628.9 | 3181.0 | 3732.6 | 4717.0 | 5420.3 | 5754.4 |
| 75° | 490.5 | 607.1 | 723.7 | 840.3 | 1208.0 | 1575.3 | 1943.1 | 2310.4 | 2963.9 | 3481.9 | 3859.6 |
| 77.5° | 218.5 | 242.2 | 265.4 | 289.1 | 573.0 | 856.9 | 1140.7 | 1424.6 | 1708.5 | 2021.3 | 2109.9 |
| 80° | 78.2 | 88.6 | 99.5 | 110.0 | 249.3 | 389.1 | 528.4 | 667.8 | 805.2 | 966.8 | 1006.1 |
| 82.5° | 32.7 | 32.7 | 32.2 | 31.8 | 81.5 | 131.3 | 181.0 | 230.8 | 266.8 | 306.6 | 314.2 |
| 85° | 13.3 | 10.0 | 6.2 | 2.4 | 10.4 | 19.0 | 27.0 | 35.1 | 56.4 | 51.2 | 94.8 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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: P596751
 CATALOG NUMBER: MSA-SA4A-827-U-SLR-HSS

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: P596751

CATALOG NUMBER: MSA-SA4A-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 275° | 277.5° | 280° | 282.5° | 285° | 287.5° | 290° | 292.5° | 295° | 297.5° | 300° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 |
| 2.5° | 1269.2 | 1268.2 | 1267.3 | 1266.3 | 1265.4 | 1248.3 | 1231.7 | 1214.7 | 1198.1 | 1218.9 | 1239.8 |
| 5° | 1540.7 | 1565.4 | 1590.0 | 1615.1 | 1639.8 | 1646.9 | 1654.0 | 1661.1 | 1668.2 | 1683.4 | 1698.5 |
| 7.5° | 1640.7 | 1682.4 | 1723.7 | 1765.4 | 1806.6 | 1845.0 | 1882.9 | 1921.3 | 1959.7 | 1950.2 | 1940.7 |
| 10° | 1606.1 | 1681.5 | 1756.8 | 1832.7 | 1908.0 | 1924.6 | 1941.2 | 1958.3 | 1974.8 | 2018.0 | 2061.1 |
| 12.5° | 1568.7 | 1659.2 | 1749.7 | 1840.2 | 1930.8 | 1981.0 | 2030.8 | 2081.0 | 2131.2 | 2174.8 | 2218.4 |
| 15° | 1746.4 | 1804.2 | 1862.0 | 1920.3 | 1978.2 | 2022.2 | 2065.8 | 2109.9 | 2153.5 | 2183.8 | 2213.7 |
| 17.5° | 1980.1 | 2008.5 | 2036.9 | 2065.8 | 2094.3 | 2128.9 | 2163.5 | 2198.1 | 2232.7 | 2250.7 | 2268.7 |
| 20° | 2227.0 | 2239.3 | 2251.6 | 2263.9 | 2276.3 | 2248.8 | 2221.3 | 2193.8 | 2166.3 | 2183.4 | 2200.0 |
| 22.5° | 2474.8 | 2479.1 | 2483.8 | 2488.1 | 2492.4 | 2428.4 | 2364.4 | 2300.4 | 2236.4 | 2209.4 | 2182.4 |
| 25° | 2856.3 | 2825.1 | 2793.8 | 2762.5 | 2731.2 | 2655.4 | 2579.6 | 2503.7 | 2427.9 | 2361.1 | 2294.3 |
| 27.5° | 3269.6 | 3163.4 | 3057.8 | 2951.6 | 2845.9 | 2770.1 | 2694.3 | 2618.4 | 2542.6 | 2442.1 | 2341.7 |
| 30° | 3686.2 | 3515.1 | 3344.5 | 3173.4 | 3002.8 | 2912.7 | 2822.7 | 2732.2 | 2642.1 | 2541.7 | 2441.7 |
| 32.5° | 4068.2 | 3862.5 | 3656.8 | 3450.6 | 3245.0 | 3093.3 | 2941.6 | 2790.0 | 2638.3 | 2568.2 | 2498.1 |
| 35° | 4384.7 | 4141.6 | 3898.5 | 3654.9 | 3411.8 | 3261.5 | 3111.3 | 2961.1 | 2810.8 | 2706.6 | 2602.8 |
| 37.5° | 4926.0 | 4652.5 | 4379.1 | 4105.6 | 3832.2 | 3626.9 | 3422.2 | 3217.0 | 3011.8 | 2942.1 | 2872.5 |
| 40° | 5425.0 | 5080.5 | 4735.9 | 4391.4 | 4046.8 | 3874.8 | 3703.2 | 3531.2 | 3359.6 | 3245.4 | 3131.7 |
| 42.5° | 5821.7 | 5458.7 | 5096.1 | 4733.1 | 4370.1 | 4199.9 | 4030.3 | 3860.1 | 3690.0 | 3613.7 | 3537.8 |
| 45° | 5907.5 | 5565.3 | 5223.6 | 4881.4 | 4539.2 | 4440.2 | 4341.6 | 4242.6 | 4144.0 | 4091.4 | 4039.3 |
| 47.5° | 6076.7 | 5705.6 | 5335.0 | 4963.9 | 4592.8 | 4548.3 | 4503.7 | 4458.7 | 4414.1 | 4439.2 | 4464.4 |
| 50° | 6171.4 | 5792.8 | 5414.1 | 5035.4 | 4656.8 | 4669.6 | 4681.9 | 4694.7 | 4707.5 | 4885.7 | 5063.4 |
| 52.5° | 6355.3 | 5972.9 | 5590.4 | 5208.0 | 4825.5 | 4906.1 | 4986.2 | 5066.7 | 5146.8 | 5392.3 | 5637.3 |
| 55° | 6683.8 | 6307.9 | 5932.1 | 5555.8 | 5180.0 | 5286.2 | 5392.3 | 5498.9 | 5605.1 | 5865.8 | 6125.9 |
| 57.5° | 7170.5 | 6797.5 | 6425.0 | 6052.0 | 5679.5 | 5785.2 | 5890.9 | 5996.6 | 6102.2 | 6337.8 | 6572.9 |
| 60° | 7783.3 | 7400.3 | 7017.9 | 6634.9 | 6252.5 | 6292.3 | 6331.6 | 6371.4 | 6411.2 | 6664.3 | 6916.9 |
| 62.5° | 8260.5 | 7908.4 | 7556.7 | 7204.6 | 6852.9 | 6808.9 | 6765.3 | 6721.2 | 6677.6 | 6870.0 | 7061.9 |
| 65° | 8371.4 | 8123.5 | 7876.1 | 7628.3 | 7380.4 | 7244.9 | 7109.8 | 6974.3 | 6838.7 | 6916.5 | 6994.2 |
| 67.5° | 8053.9 | 7886.6 | 7719.8 | 7552.5 | 7385.2 | 7102.2 | 6819.3 | 6535.9 | 6253.0 | 6211.7 | 6170.5 |
| 70° | 7316.9 | 7225.4 | 7134.5 | 7043.0 | 6952.0 | 6516.0 | 6080.4 | 5644.4 | 5208.9 | 5104.2 | 4999.4 |
| 72.5° | 5773.8 | 5830.7 | 5887.6 | 5944.9 | 6001.8 | 5535.0 | 5068.6 | 4601.8 | 4135.0 | 4002.3 | 3870.1 |
| 75° | 4071.5 | 4264.4 | 4457.3 | 4650.1 | 4843.0 | 4417.4 | 3992.3 | 3566.8 | 3141.2 | 3013.7 | 2886.7 |
| 77.5° | 2207.5 | 2569.1 | 2930.7 | 3292.4 | 3654.0 | 3302.8 | 2952.1 | 2600.9 | 2249.7 | 2161.1 | 2072.9 |
| 80° | 1046.4 | 1255.0 | 1463.0 | 1671.5 | 1880.1 | 1800.9 | 1721.8 | 1642.1 | 1563.0 | 1582.4 | 1601.9 |
| 82.5° | 320.8 | 471.6 | 622.3 | 773.0 | 923.7 | 935.5 | 946.9 | 958.7 | 970.6 | 1000.0 | 1028.9 |
| 85° | 107.6 | 147.4 | 187.2 | 227.0 | 266.8 | 337.0 | 407.1 | 477.7 | 547.9 | 502.4 | 457.3 |
| 87.5° | 0.0 | 1.4 | 2.4 | 3.8 | 4.7 | 14.7 | 24.6 | 34.6 | 44.5 | 38.4 | 32.7 |
| 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: P596751
 CATALOG NUMBER: MSA-SA4A-827-U-SLR-HSS

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: P596751

CATALOG NUMBER: MSA-SA4A-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 302.5° | 305° | 307.5° | 310° | 312.5° | 315° | 317.5° | 320° | 322.5° | 325° | 327.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 |
| 2.5° | 1261.1 | 1282.0 | 1282.4 | 1283.4 | 1283.9 | 1284.3 | 1286.7 | 1289.1 | 1291.9 | 1294.3 | 1278.6 |
| 5° | 1714.2 | 1729.3 | 1701.4 | 1673.4 | 1645.0 | 1617.0 | 1642.1 | 1667.3 | 1692.4 | 1717.5 | 1706.6 |
| 7.5° | 1930.8 | 1921.3 | 1918.0 | 1915.1 | 1911.8 | 1909.0 | 1918.4 | 1927.9 | 1937.4 | 1946.9 | 1945.9 |
| 10° | 2104.2 | 2147.4 | 2157.8 | 2168.2 | 2179.1 | 2189.5 | 2167.7 | 2145.9 | 2124.1 | 2102.3 | 2093.3 |
| 12.5° | 2262.0 | 2305.6 | 2340.2 | 2374.8 | 2409.9 | 2444.5 | 2413.2 | 2382.4 | 2351.1 | 2320.3 | 2291.0 |
| 15° | 2244.0 | 2273.9 | 2302.3 | 2330.8 | 2359.2 | 2387.6 | 2377.2 | 2367.3 | 2356.8 | 2346.4 | 2341.7 |
| 17.5° | 2287.2 | 2305.2 | 2298.5 | 2291.9 | 2284.8 | 2278.2 | 2274.8 | 2272.0 | 2268.7 | 2265.4 | 2254.0 |
| 20° | 2217.0 | 2234.1 | 2229.8 | 2226.0 | 2221.8 | 2217.5 | 2214.6 | 2211.8 | 2209.0 | 2206.1 | 2197.1 |
| 22.5° | 2155.4 | 2128.4 | 2121.3 | 2114.7 | 2107.5 | 2100.9 | 2101.9 | 2102.8 | 2103.3 | 2104.2 | 2145.0 |
| 25° | 2227.4 | 2160.6 | 2134.6 | 2108.5 | 2081.9 | 2055.9 | 2067.7 | 2079.1 | 2091.0 | 2102.8 | 2161.6 |
| 27.5° | 2240.7 | 2140.2 | 2098.5 | 2056.8 | 2015.1 | 1973.4 | 2016.1 | 2058.7 | 2101.4 | 2144.0 | 2239.3 |
| 30° | 2341.2 | 2241.2 | 2182.9 | 2125.1 | 2066.8 | 2009.0 | 2063.5 | 2118.0 | 2172.5 | 2227.0 | 2330.3 |
| 32.5° | 2427.4 | 2357.3 | 2315.6 | 2273.9 | 2232.2 | 2190.5 | 2192.8 | 2194.7 | 2197.1 | 2199.5 | 2345.0 |
| 35° | 2498.5 | 2394.7 | 2356.8 | 2319.4 | 2281.5 | 2244.0 | 2300.4 | 2356.8 | 2413.2 | 2469.6 | 2600.4 |
| 37.5° | 2802.8 | 2733.1 | 2663.5 | 2594.3 | 2524.6 | 2455.4 | 2500.4 | 2545.4 | 2590.9 | 2636.0 | 2780.5 |
| 40° | 3017.5 | 2903.7 | 2885.7 | 2868.2 | 2850.2 | 2832.6 | 2855.9 | 2878.6 | 2901.8 | 2925.1 | 3051.6 |
| 42.5° | 3461.5 | 3385.2 | 3336.4 | 3288.1 | 3239.3 | 3190.9 | 3209.4 | 3227.9 | 3246.9 | 3265.3 | 3385.2 |
| 45° | 3986.7 | 3934.0 | 3901.8 | 3869.6 | 3836.9 | 3804.7 | 3776.7 | 3749.2 | 3721.3 | 3693.8 | 3815.6 |
| 47.5° | 4489.5 | 4514.6 | 4585.7 | 4656.3 | 4727.4 | 4798.0 | 4740.2 | 4682.4 | 4624.1 | 4566.3 | 4566.7 |
| 50° | 5241.6 | 5419.3 | 5455.3 | 5490.9 | 5526.9 | 5562.4 | 5439.2 | 5316.0 | 5192.3 | 5069.1 | 5054.4 |
| 52.5° | 5882.8 | 6127.8 | 6140.6 | 6153.4 | 6166.7 | 6179.5 | 6129.7 | 6080.0 | 6029.7 | 5980.0 | 5847.8 |
| 55° | 6386.6 | 6646.8 | 6664.3 | 6681.4 | 6698.9 | 6716.0 | 6672.4 | 6629.3 | 6585.7 | 6542.1 | 6408.4 |
| 57.5° | 6808.4 | 7043.5 | 7053.9 | 7063.8 | 7074.3 | 7084.7 | 7088.0 | 7091.3 | 7095.1 | 7098.4 | 6917.9 |
| 60° | 7170.0 | 7423.1 | 7402.2 | 7381.8 | 7361.0 | 7340.6 | 7309.3 | 7278.1 | 7246.8 | 7215.5 | 7098.9 |
| 62.5° | 7254.4 | 7446.8 | 7414.5 | 7382.8 | 7350.6 | 7318.8 | 7292.3 | 7266.2 | 7239.7 | 7213.1 | 7138.7 |
| 65° | 7071.9 | 7149.6 | 7116.4 | 7083.3 | 7049.6 | 7016.4 | 6999.4 | 6982.8 | 6965.7 | 6948.7 | 6939.2 |
| 67.5° | 6128.8 | 6087.6 | 6126.9 | 6166.2 | 6205.6 | 6244.9 | 6298.5 | 6352.0 | 6406.0 | 6459.6 | 6428.3 |
| 70° | 4894.2 | 4789.5 | 4833.1 | 4876.2 | 4919.8 | 4962.9 | 5044.0 | 5125.0 | 5206.5 | 5287.6 | 5265.8 |
| 72.5° | 3737.4 | 3604.7 | 3610.8 | 3617.0 | 3623.6 | 3629.8 | 3627.4 | 3625.5 | 3623.2 | 3620.8 | 3658.7 |
| 75° | 2759.2 | 2631.7 | 2571.5 | 2511.3 | 2451.1 | 2390.9 | 2376.3 | 2361.6 | 2346.9 | 2332.2 | 2402.8 |
| 77.5° | 1984.3 | 1896.2 | 1854.9 | 1814.2 | 1773.0 | 1732.2 | 1753.0 | 1773.9 | 1795.2 | 1816.1 | 1840.7 |
| 80° | 1621.8 | 1641.2 | 1609.4 | 1578.2 | 1546.4 | 1514.7 | 1538.4 | 1561.6 | 1585.3 | 1609.0 | 1535.5 |
| 82.5° | 1058.3 | 1087.2 | 989.6 | 891.9 | 794.3 | 696.7 | 755.9 | 815.1 | 874.9 | 934.1 | 903.8 |
| 85° | 411.8 | 366.8 | 312.8 | 259.2 | 205.2 | 151.2 | 196.7 | 242.2 | 287.7 | 333.2 | 363.5 |
| 87.5° | 26.5 | 20.9 | 16.6 | 12.3 | 7.6 | 3.3 | 7.1 | 10.9 | 15.2 | 19.0 | 31.8 |
| 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: P596751
 CATALOG NUMBER: MSA-SA4A-827-U-SLR-HSS

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: P596751

CATALOG NUMBER: MSA-SA4A-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 330° | 332.5° | 335° | 337.5° | 340° | 342.5° | 345° | 347.5° | 350° | 352.5° | 355° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 | 1001.9 |
| 2.5° | 1263.5 | 1247.8 | 1232.7 | 1202.8 | 1173.0 | 1143.1 | 1113.2 | 1155.0 | 1196.7 | 1238.4 | 1280.1 |
| 5° | 1696.2 | 1685.3 | 1674.8 | 1677.7 | 1680.5 | 1683.9 | 1686.7 | 1692.9 | 1699.0 | 1704.7 | 1710.9 |
| 7.5° | 1945.5 | 1944.5 | 1943.6 | 1921.8 | 1900.0 | 1877.7 | 1855.9 | 1866.8 | 1877.7 | 1888.6 | 1899.5 |
| 10° | 2084.8 | 2075.8 | 2066.8 | 2018.9 | 1971.1 | 1922.7 | 1874.8 | 1854.0 | 1832.7 | 1811.8 | 1791.0 |
| 12.5° | 2261.6 | 2231.7 | 2202.3 | 2151.1 | 2100.4 | 2049.2 | 1998.1 | 1979.1 | 1959.7 | 1940.7 | 1921.3 |
| 15° | 2337.4 | 2332.7 | 2328.4 | 2291.9 | 2254.9 | 2218.4 | 2181.5 | 2116.5 | 2051.1 | 1986.2 | 1921.3 |
| 17.5° | 2242.6 | 2230.8 | 2219.4 | 2277.2 | 2334.6 | 2392.4 | 2450.2 | 2382.9 | 2315.6 | 2248.3 | 2181.0 |
| 20° | 2188.1 | 2179.1 | 2170.1 | 2277.7 | 2384.8 | 2492.4 | 2599.5 | 2569.6 | 2539.3 | 2509.4 | 2479.6 |
| 22.5° | 2185.7 | 2227.0 | 2267.7 | 2362.0 | 2455.9 | 2550.2 | 2644.0 | 2695.7 | 2747.8 | 2799.5 | 2851.1 |
| 25° | 2220.3 | 2279.6 | 2338.3 | 2494.7 | 2651.1 | 2808.0 | 2964.4 | 3023.6 | 3082.4 | 3141.6 | 3200.4 |
| 27.5° | 2334.1 | 2429.3 | 2524.1 | 2660.6 | 2797.1 | 2934.1 | 3070.6 | 3199.9 | 3329.8 | 3459.2 | 3588.6 |
| 30° | 2433.1 | 2536.4 | 2639.8 | 2802.3 | 2964.4 | 3127.0 | 3289.0 | 3451.1 | 3613.2 | 3775.3 | 3937.4 |
| 32.5° | 2490.5 | 2636.4 | 2781.9 | 2979.6 | 3176.7 | 3374.3 | 3572.0 | 3749.7 | 3927.4 | 4104.7 | 4282.4 |
| 35° | 2731.2 | 2862.5 | 2993.3 | 3211.8 | 3430.3 | 3649.2 | 3867.7 | 4087.6 | 4307.5 | 4526.9 | 4746.8 |
| 37.5° | 2925.1 | 3070.1 | 3214.6 | 3453.5 | 3691.9 | 3930.7 | 4169.6 | 4473.4 | 4777.6 | 5081.4 | 5385.2 |
| 40° | 3178.1 | 3304.7 | 3431.2 | 3654.9 | 3878.1 | 4101.8 | 4325.5 | 4710.8 | 5096.1 | 5480.9 | 5866.2 |
| 42.5° | 3504.7 | 3624.6 | 3744.5 | 3983.8 | 4223.1 | 4462.5 | 4701.8 | 5128.3 | 5554.9 | 5980.9 | 6407.5 |
| 45° | 3937.4 | 4059.6 | 4181.4 | 4372.0 | 4562.5 | 4753.0 | 4943.5 | 5397.0 | 5850.1 | 6303.7 | 6756.7 |
| 47.5° | 4567.2 | 4567.7 | 4568.2 | 4705.6 | 4843.0 | 4980.9 | 5118.4 | 5575.2 | 6031.6 | 6488.5 | 6944.9 |
| 50° | 5039.7 | 5024.5 | 5009.9 | 5080.9 | 5151.6 | 5222.6 | 5293.7 | 5714.1 | 6134.9 | 6555.3 | 6975.7 |
| 52.5° | 5716.0 | 5583.8 | 5452.0 | 5494.2 | 5535.9 | 5578.1 | 5619.8 | 5975.7 | 6332.1 | 6688.0 | 7043.9 |
| 55° | 6275.2 | 6141.6 | 6007.9 | 5992.3 | 5976.7 | 5961.0 | 5945.4 | 6272.9 | 6600.3 | 6927.8 | 7255.3 |
| 57.5° | 6737.8 | 6557.2 | 6377.1 | 6341.1 | 6305.6 | 6269.5 | 6233.5 | 6579.0 | 6924.0 | 7269.5 | 7614.5 |
| 60° | 6982.8 | 6866.2 | 6749.6 | 6726.4 | 6702.7 | 6679.5 | 6655.8 | 6939.2 | 7222.6 | 7506.0 | 7789.4 |
| 62.5° | 7064.8 | 6990.4 | 6916.5 | 6960.1 | 7003.7 | 7047.7 | 7091.3 | 7216.0 | 7340.1 | 7464.8 | 7588.9 |
| 65° | 6930.2 | 6920.7 | 6911.2 | 7000.8 | 7089.9 | 7179.5 | 7269.1 | 7238.2 | 7207.0 | 7176.2 | 7145.4 |
| 67.5° | 6397.5 | 6366.2 | 6335.4 | 6532.1 | 6728.3 | 6925.0 | 7121.7 | 6972.4 | 6822.6 | 6673.3 | 6524.0 |
| 70° | 5244.0 | 5221.7 | 5199.9 | 5483.3 | 5766.7 | 6050.6 | 6334.0 | 6153.0 | 5971.9 | 5790.9 | 5609.8 |
| 72.5° | 3696.1 | 3734.0 | 3772.0 | 4106.1 | 4439.7 | 4773.8 | 5107.5 | 4925.0 | 4742.6 | 4560.1 | 4377.6 |
| 75° | 2472.9 | 2543.6 | 2614.2 | 2958.2 | 3302.3 | 3646.8 | 3990.9 | 3776.7 | 3562.5 | 3348.3 | 3134.1 |
| 77.5° | 1865.4 | 1890.0 | 1914.7 | 2132.2 | 2349.7 | 2567.7 | 2785.3 | 2608.5 | 2431.2 | 2254.5 | 2077.2 |
| 80° | 1462.1 | 1388.1 | 1314.7 | 1386.2 | 1457.8 | 1529.4 | 1600.9 | 1495.2 | 1389.5 | 1284.3 | 1178.6 |
| 82.5° | 873.4 | 843.1 | 812.8 | 851.6 | 890.0 | 928.9 | 967.8 | 922.3 | 876.3 | 830.8 | 784.8 |
| 85° | 393.4 | 423.7 | 453.5 | 492.9 | 531.7 | 571.1 | 610.4 | 546.9 | 483.4 | 419.9 | 356.4 |
| 87.5° | 44.1 | 56.9 | 69.7 | 86.3 | 102.8 | 119.4 | 136.0 | 106.2 | 75.8 | 46.0 | 16.1 |
| 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: P596751
 CATALOG NUMBER: MSA-SA4A-827-U-SLR-HSS

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: P596751
 CATALOG NUMBER: MSA-SA4A-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 357.5° | 360° |
|--------|--------|--------|
| 0° | 1001.9 | 1001.9 |
| 2.5° | 1304.2 | 1328.4 |
| 5° | 1710.4 | 1709.4 |
| 7.5° | 1871.1 | 1842.1 |
| 10° | 1764.4 | 1737.9 |
| 12.5° | 1853.5 | 1785.7 |
| 15° | 1870.1 | 1818.9 |
| 17.5° | 2097.6 | 2013.7 |
| 20° | 2372.0 | 2263.9 |
| 22.5° | 2703.3 | 2554.9 |
| 25° | 3024.1 | 2847.8 |
| 27.5° | 3482.9 | 3376.7 |
| 30° | 3830.3 | 3722.7 |
| 32.5° | 4209.4 | 4136.4 |
| 35° | 4674.3 | 4601.3 |
| 37.5° | 5404.2 | 5422.6 |
| 40° | 5877.6 | 5889.0 |
| 42.5° | 6451.5 | 6495.6 |
| 45° | 6806.0 | 6855.3 |
| 47.5° | 7013.6 | 7082.3 |
| 50° | 7086.6 | 7197.5 |
| 52.5° | 7180.9 | 7317.4 |
| 55° | 7407.4 | 7559.6 |
| 57.5° | 7735.9 | 7857.2 |
| 60° | 7795.1 | 7800.8 |
| 62.5° | 7501.3 | 7413.6 |
| 65° | 7052.0 | 6958.6 |
| 67.5° | 6467.6 | 6410.8 |
| 70° | 5535.0 | 5460.1 |
| 72.5° | 4238.3 | 4099.0 |
| 75° | 2961.6 | 2789.0 |
| 77.5° | 1986.7 | 1896.2 |
| 80° | 1181.5 | 1183.9 |
| 82.5° | 806.6 | 827.9 |
| 85° | 352.1 | 347.4 |
| 87.5° | 11.4 | 6.2 |
| 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 |

REPORT NUMBER: P596751
CATALOG NUMBER: MSA-SA4A-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 357.5° | 360° |
|--------|--------|------|
| 112.5° | 0.0 | 0.0 |
| 115° | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 |
| 120° | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 |
| 125° | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 |
| 130° | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 |
| 135° | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 |
| 140° | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 |

(END OF REPORT)