

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: P367667

Luminaire Tested: **MSA-SA3A-727-U-SLR-HSS**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367667
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-25)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA3A-727-U-SLR-HSS
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) 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: 7156 lumens
Efficiency: N/A
Efficacy: 74.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

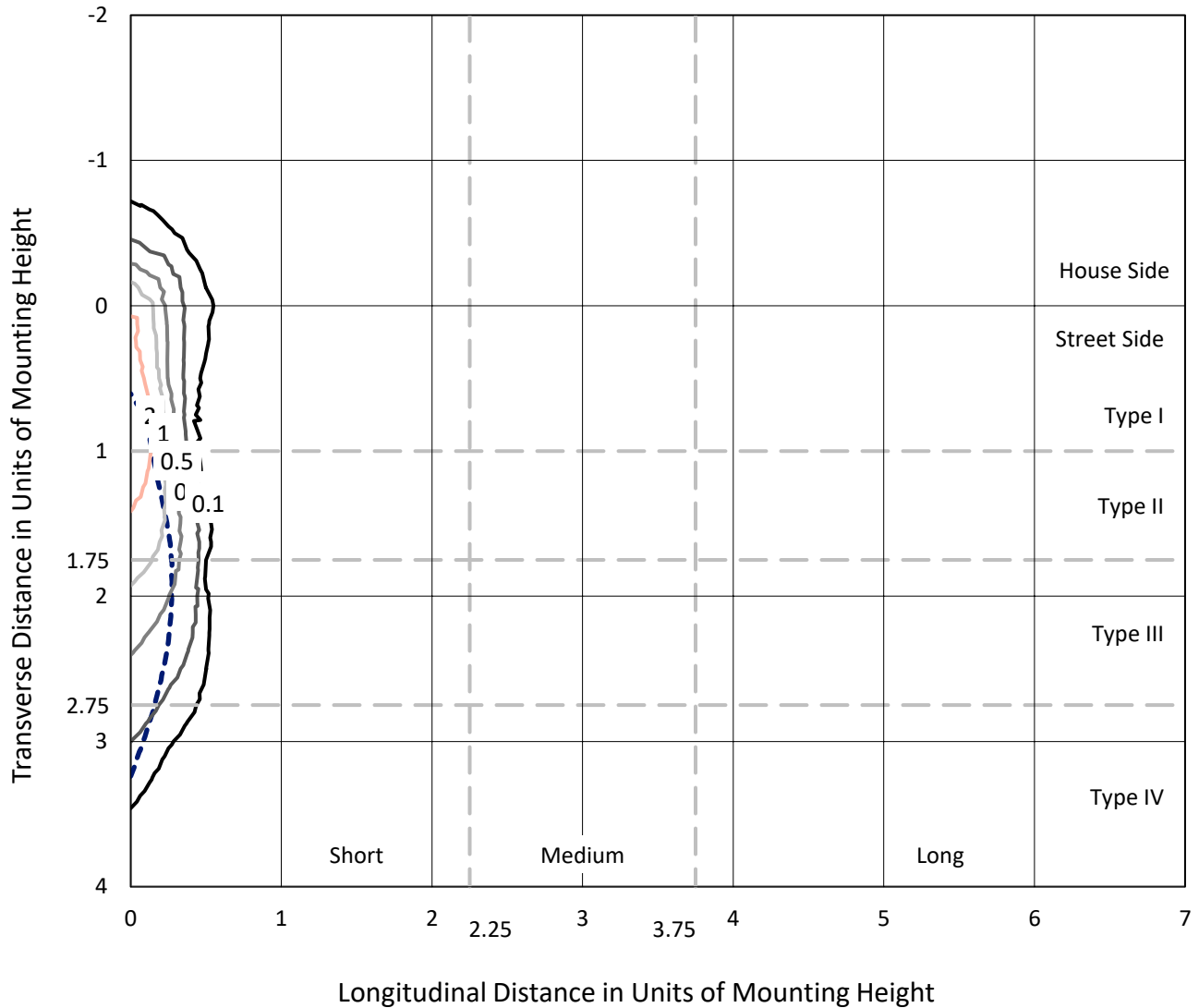
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P367667
 CATALOG NUMBER: MSA-SA3A-727-U-SLR-HSS

Iso-Footcandle Lines of Horizontal Illumination

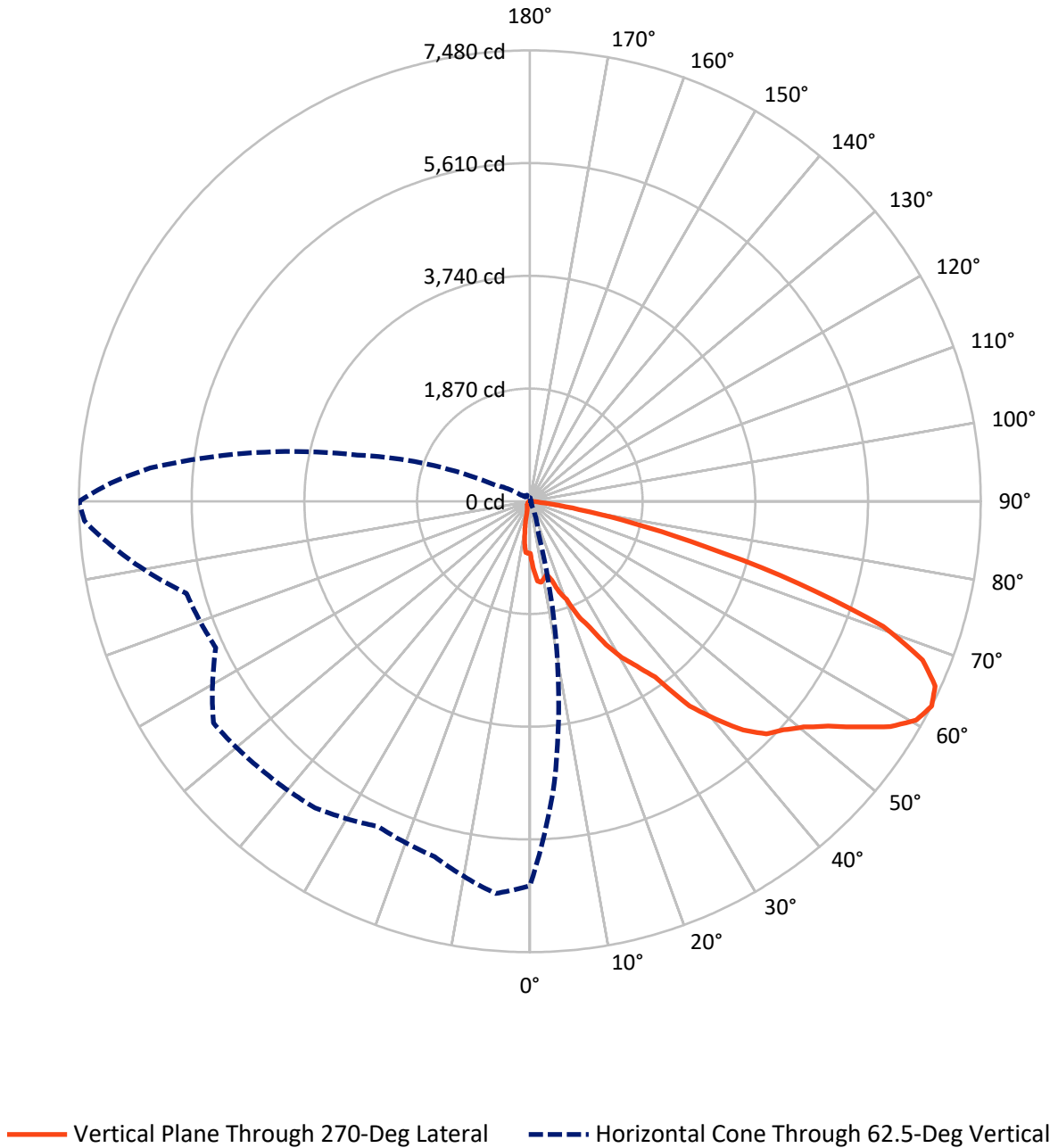
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P367667
CATALOG NUMBER: MSA-SA3A-727-U-SLR-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P367667
 CATALOG NUMBER: MSA-SA3A-727-U-SLR-HSS

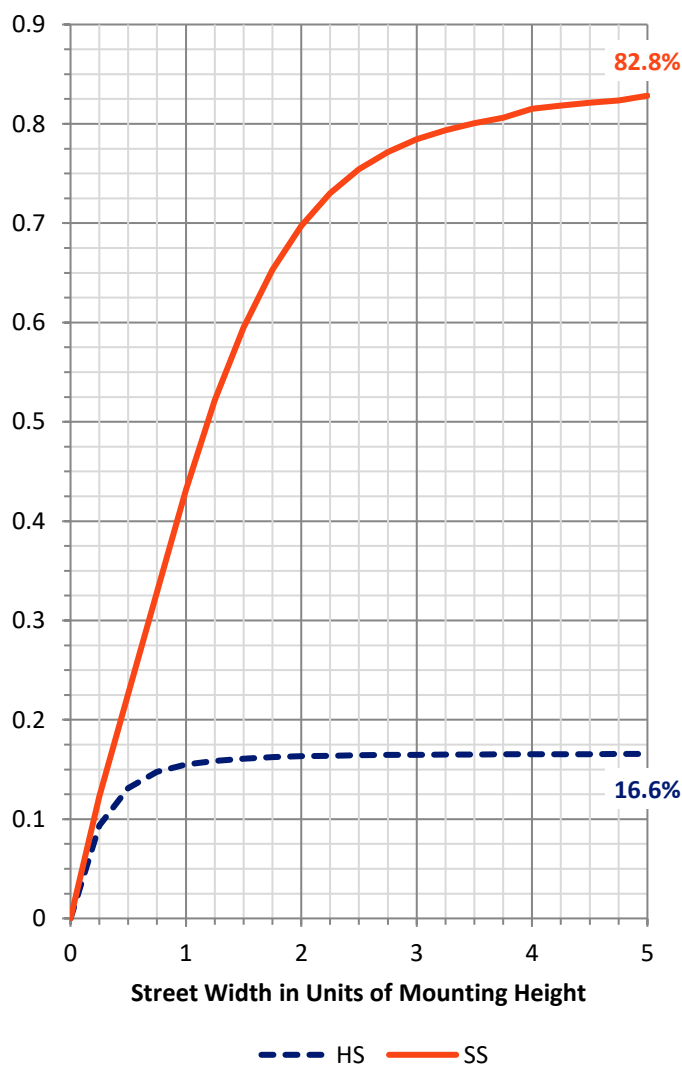
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1195.0 | 0.0 | 1195.0 |
| | % Fixture | 16.7 | 0.0 | 16.7 |
| Street Side | Lumens | 5961.0 | 0.0 | 5961.0 |
| | % Fixture | 83.3 | 0.0 | 83.3 |
| Total | Lumens | 7156.0 | 0.0 | 7156.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 96.4 | 1.3 |
| 10°-20° | 251.7 | 3.5 |
| 20°-30° | 406.8 | 5.7 |
| 30°-40° | 681.3 | 9.5 |
| 40°-50° | 1113.8 | 15.6 |
| 50°-60° | 1648.8 | 23.0 |
| 60°-70° | 1892.8 | 26.5 |
| 70°-80° | 935.9 | 13.1 |
| 80°-90° | 128.5 | 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° | 7156.0 | 100.0 |
| 0°-180° | 7156.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P367667

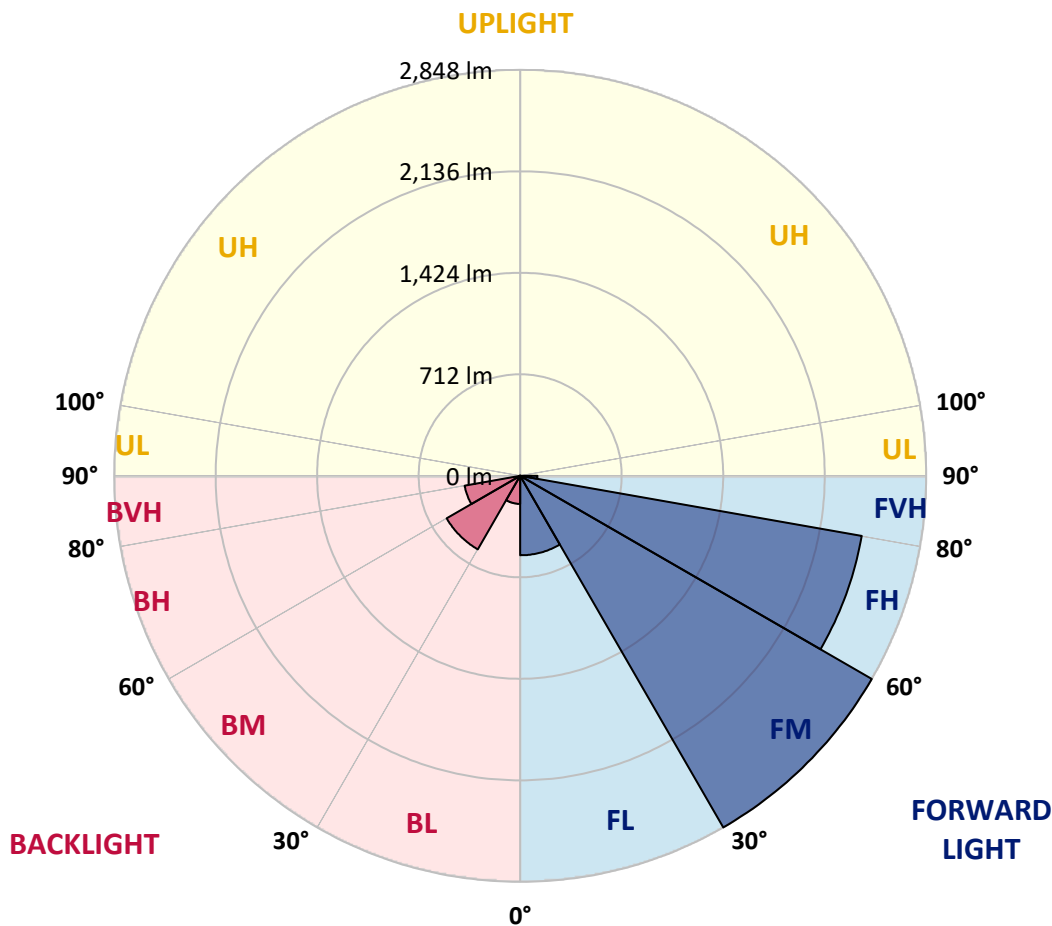
CATALOG NUMBER: MSA-SA3A-727-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 557.5 | 7.8 | | | |
| FM (30°-60°) | 2848.5 | 39.8 | | | |
| FH (60°-80°) | 2433.4 | 34.0 | | | G2/5000 |
| FVH (80°-90°) | 121.7 | 1.7 | | | G2/225 |
| BL (0°-30°) | 197.3 | 2.8 | B1/500 | | |
| BM (30°-60°) | 595.4 | 8.3 | B1/1000 | | |
| BH (60°-80°) | 395.4 | 5.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 6.8 | 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: P367667

CATALOG NUMBER: MSA-SA3A-727-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 2.5° | 5° | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 25° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 |
| 2.5° | 1143.4 | 1157.7 | 1171.5 | 1145.0 | 1118.5 | 1092.0 | 1065.5 | 1041.8 | 1018.2 | 994.1 | 970.4 |
| 5° | 1471.3 | 1445.2 | 1419.1 | 1383.2 | 1347.3 | 1311.4 | 1275.5 | 1258.8 | 1242.1 | 1225.4 | 1208.7 |
| 7.5° | 1585.6 | 1539.1 | 1492.2 | 1460.3 | 1428.9 | 1397.1 | 1365.3 | 1315.1 | 1264.5 | 1214.4 | 1163.8 |
| 10° | 1495.8 | 1446.5 | 1396.7 | 1369.0 | 1341.2 | 1313.5 | 1285.7 | 1223.3 | 1160.5 | 1098.1 | 1035.3 |
| 12.5° | 1537.0 | 1483.6 | 1430.1 | 1373.0 | 1315.9 | 1258.8 | 1201.7 | 1154.0 | 1105.9 | 1058.1 | 1010.0 |
| 15° | 1565.6 | 1504.4 | 1442.8 | 1377.5 | 1312.3 | 1247.0 | 1181.7 | 1125.4 | 1069.6 | 1013.3 | 957.0 |
| 17.5° | 1733.2 | 1645.5 | 1557.8 | 1457.5 | 1357.1 | 1256.8 | 1156.4 | 1091.2 | 1026.3 | 961.0 | 895.8 |
| 20° | 1948.6 | 1824.2 | 1699.4 | 1563.5 | 1427.7 | 1291.9 | 1156.0 | 1074.9 | 993.7 | 912.5 | 831.3 |
| 22.5° | 2199.1 | 2043.7 | 1887.8 | 1720.2 | 1552.9 | 1385.3 | 1217.6 | 1101.0 | 984.3 | 867.6 | 751.0 |
| 25° | 2451.2 | 2310.8 | 2170.5 | 1944.9 | 1719.4 | 1493.4 | 1267.8 | 1119.7 | 971.2 | 823.2 | 674.7 |
| 27.5° | 2906.4 | 2655.5 | 2404.7 | 2117.5 | 1830.7 | 1543.5 | 1256.4 | 1086.7 | 917.0 | 746.9 | 577.2 |
| 30° | 3204.2 | 3011.2 | 2817.9 | 2438.5 | 2059.6 | 1680.2 | 1300.8 | 1085.9 | 870.9 | 655.5 | 440.5 |
| 32.5° | 3560.3 | 3278.0 | 2995.3 | 2583.7 | 2172.1 | 1760.6 | 1349.0 | 1096.5 | 843.6 | 591.1 | 338.2 |
| 35° | 3960.4 | 3653.3 | 3346.1 | 2824.8 | 2303.5 | 1781.8 | 1260.5 | 1015.7 | 771.0 | 526.2 | 281.5 |
| 37.5° | 4667.4 | 4153.4 | 3639.4 | 3031.6 | 2423.4 | 1815.6 | 1207.4 | 963.1 | 718.3 | 474.0 | 229.2 |
| 40° | 5068.7 | 4578.0 | 4087.3 | 3327.8 | 2568.2 | 1808.7 | 1049.2 | 832.1 | 615.5 | 398.5 | 181.5 |
| 42.5° | 5590.9 | 4968.4 | 4345.5 | 3496.6 | 2647.8 | 1798.9 | 950.0 | 749.3 | 548.6 | 347.5 | 146.8 |
| 45° | 5900.5 | 5195.2 | 4489.9 | 3570.1 | 2650.2 | 1730.4 | 810.5 | 636.8 | 463.0 | 289.2 | 115.4 |
| 47.5° | 6095.9 | 5388.6 | 4681.2 | 3693.7 | 2706.5 | 1719.0 | 731.4 | 571.5 | 411.6 | 251.7 | 91.8 |
| 50° | 6195.0 | 5485.6 | 4775.9 | 3761.0 | 2746.1 | 1730.8 | 715.9 | 556.8 | 397.3 | 238.2 | 78.7 |
| 52.5° | 6298.2 | 5614.1 | 4929.6 | 3877.6 | 2825.6 | 1773.6 | 721.6 | 559.3 | 397.3 | 235.0 | 72.6 |
| 55° | 6506.6 | 5832.0 | 5156.9 | 4044.9 | 2932.9 | 1820.9 | 709.0 | 549.1 | 389.2 | 228.8 | 68.9 |
| 57.5° | 6762.8 | 6041.6 | 5320.0 | 4167.3 | 3014.5 | 1861.7 | 709.0 | 548.2 | 387.5 | 226.4 | 65.7 |
| 60° | 6714.3 | 5931.5 | 5148.3 | 4029.8 | 2911.3 | 1792.4 | 673.9 | 520.9 | 368.3 | 215.4 | 62.4 |
| 62.5° | 6381.0 | 5531.3 | 4681.2 | 3647.6 | 2613.5 | 1579.9 | 545.8 | 423.8 | 301.9 | 179.5 | 57.5 |
| 65° | 5989.4 | 5087.5 | 4185.2 | 3233.9 | 2282.3 | 1331.0 | 379.4 | 297.8 | 215.8 | 134.2 | 52.2 |
| 67.5° | 5517.9 | 4556.0 | 3594.1 | 2748.1 | 1902.5 | 1056.5 | 210.5 | 169.7 | 128.9 | 87.7 | 46.9 |
| 70° | 4699.6 | 3706.7 | 2713.4 | 2063.2 | 1413.4 | 763.2 | 113.0 | 95.5 | 77.9 | 60.4 | 42.8 |
| 72.5° | 3528.1 | 2618.4 | 1708.8 | 1298.0 | 887.6 | 476.9 | 66.1 | 59.6 | 52.6 | 46.1 | 39.2 |
| 75° | 2400.6 | 1719.0 | 1037.3 | 789.7 | 542.5 | 294.9 | 47.3 | 44.1 | 40.4 | 37.1 | 33.4 |
| 77.5° | 1632.1 | 1180.5 | 728.9 | 556.4 | 383.8 | 211.3 | 38.8 | 36.7 | 34.7 | 32.2 | 30.2 |
| 80° | 1019.0 | 697.5 | 376.1 | 289.6 | 202.7 | 116.3 | 29.4 | 28.1 | 26.9 | 25.3 | 24.1 |
| 82.5° | 712.6 | 426.3 | 139.9 | 109.3 | 78.7 | 47.7 | 17.1 | 17.5 | 17.9 | 17.9 | 18.4 |
| 85° | 299.0 | 161.5 | 24.1 | 20.4 | 16.7 | 13.1 | 9.4 | 10.2 | 11.4 | 12.2 | 13.1 |
| 87.5° | 5.3 | 2.9 | 0.0 | 0.8 | 2.0 | 2.9 | 3.7 | 4.9 | 5.7 | 6.9 | 7.8 |
| 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: P367667
 CATALOG NUMBER: MSA-SA3A-727-U-SLR-HSS

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 |



REPORT NUMBER: P367667

CATALOG NUMBER: MSA-SA3A-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 27.5° | 30° | 32.5° | 35° | 37.5° | 40° | 42.5° | 45° | 47.5° | 50° | 52.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 0° | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 |
| 2.5° | 976.5 | 982.7 | 988.4 | 994.5 | 989.6 | 985.1 | 980.2 | 975.3 | 968.0 | 961.0 | 953.7 |
| 5° | 1188.3 | 1167.9 | 1147.5 | 1127.1 | 1096.1 | 1065.1 | 1033.7 | 1002.7 | 999.0 | 995.3 | 991.2 |
| 7.5° | 1116.1 | 1068.3 | 1020.2 | 972.5 | 927.6 | 882.7 | 837.9 | 793.0 | 779.1 | 765.7 | 751.8 |
| 10° | 998.6 | 961.9 | 924.7 | 888.0 | 855.8 | 823.2 | 790.9 | 758.3 | 724.5 | 690.6 | 656.3 |
| 12.5° | 971.7 | 933.3 | 894.6 | 856.2 | 826.8 | 797.5 | 768.1 | 738.7 | 700.8 | 662.9 | 624.9 |
| 15° | 915.4 | 873.8 | 832.1 | 790.5 | 751.4 | 712.2 | 672.7 | 633.5 | 587.8 | 542.1 | 496.4 |
| 17.5° | 846.4 | 797.5 | 748.1 | 698.8 | 647.4 | 596.0 | 544.6 | 493.2 | 440.5 | 388.3 | 335.7 |
| 20° | 764.4 | 697.5 | 630.2 | 563.3 | 499.7 | 436.1 | 372.0 | 308.4 | 275.3 | 242.7 | 209.7 |
| 22.5° | 664.5 | 577.6 | 491.1 | 404.2 | 352.0 | 299.4 | 247.2 | 194.6 | 180.3 | 166.0 | 151.7 |
| 25° | 576.4 | 478.1 | 379.8 | 281.5 | 248.4 | 215.4 | 182.3 | 149.3 | 142.8 | 135.8 | 129.3 |
| 27.5° | 484.6 | 392.4 | 299.8 | 207.2 | 188.5 | 169.3 | 150.5 | 131.3 | 126.9 | 122.8 | 118.3 |
| 30° | 371.6 | 302.7 | 233.3 | 164.4 | 152.2 | 139.9 | 127.3 | 115.0 | 113.0 | 110.5 | 108.5 |
| 32.5° | 288.0 | 237.4 | 187.2 | 136.7 | 129.7 | 122.8 | 115.8 | 108.9 | 105.6 | 102.4 | 98.7 |
| 35° | 240.7 | 200.3 | 159.5 | 118.7 | 113.8 | 108.5 | 103.6 | 98.3 | 95.0 | 91.4 | 88.1 |
| 37.5° | 199.5 | 170.1 | 140.3 | 110.5 | 105.2 | 99.9 | 94.2 | 88.9 | 86.5 | 84.0 | 81.6 |
| 40° | 164.4 | 147.3 | 130.1 | 113.0 | 105.2 | 97.5 | 89.7 | 82.0 | 80.0 | 77.9 | 75.9 |
| 42.5° | 135.8 | 124.8 | 113.4 | 102.4 | 96.7 | 91.4 | 85.7 | 80.0 | 77.1 | 73.8 | 71.0 |
| 45° | 109.7 | 103.6 | 97.9 | 91.8 | 92.2 | 92.6 | 92.6 | 93.0 | 85.7 | 77.9 | 70.6 |
| 47.5° | 88.9 | 86.1 | 82.8 | 80.0 | 83.2 | 86.5 | 89.3 | 92.6 | 84.8 | 77.1 | 68.9 |
| 50° | 76.3 | 74.2 | 71.8 | 69.3 | 72.6 | 76.3 | 79.5 | 82.8 | 79.5 | 76.7 | 73.4 |
| 52.5° | 69.8 | 66.9 | 64.0 | 61.2 | 62.4 | 64.0 | 65.3 | 66.5 | 66.5 | 66.5 | 66.5 |
| 55° | 65.7 | 62.8 | 59.6 | 56.3 | 55.1 | 53.4 | 52.2 | 50.6 | 48.5 | 46.9 | 44.9 |
| 57.5° | 62.4 | 59.1 | 55.5 | 52.2 | 50.2 | 47.7 | 45.7 | 43.2 | 41.2 | 38.8 | 36.7 |
| 60° | 59.1 | 55.9 | 52.2 | 48.9 | 46.9 | 44.9 | 42.4 | 40.4 | 37.9 | 35.9 | 33.4 |
| 62.5° | 54.7 | 51.8 | 48.9 | 46.1 | 44.1 | 42.4 | 40.4 | 38.3 | 35.9 | 33.4 | 30.6 |
| 65° | 49.8 | 47.7 | 45.3 | 42.8 | 40.8 | 38.8 | 36.7 | 34.7 | 32.2 | 30.2 | 27.7 |
| 67.5° | 45.3 | 43.2 | 41.6 | 39.6 | 37.1 | 35.1 | 32.6 | 30.2 | 28.6 | 26.9 | 24.9 |
| 70° | 41.6 | 40.0 | 38.8 | 37.1 | 34.7 | 32.6 | 30.2 | 27.7 | 26.5 | 24.9 | 23.7 |
| 72.5° | 37.9 | 36.7 | 35.1 | 33.9 | 31.8 | 29.8 | 27.7 | 25.7 | 24.5 | 23.3 | 22.0 |
| 75° | 32.6 | 31.8 | 31.0 | 30.2 | 28.1 | 26.1 | 23.7 | 21.6 | 21.2 | 20.8 | 20.4 |
| 77.5° | 29.4 | 29.0 | 28.1 | 27.3 | 25.3 | 23.3 | 21.2 | 19.2 | 19.6 | 20.0 | 20.0 |
| 80° | 24.1 | 24.1 | 23.7 | 23.7 | 22.0 | 20.4 | 18.4 | 16.7 | 17.5 | 18.8 | 19.6 |
| 82.5° | 18.4 | 18.4 | 18.4 | 18.4 | 16.7 | 15.1 | 13.5 | 11.8 | 13.1 | 13.9 | 15.1 |
| 85° | 12.6 | 12.2 | 11.8 | 11.4 | 10.2 | 9.4 | 8.2 | 6.9 | 8.6 | 9.8 | 11.4 |
| 87.5° | 7.8 | 8.2 | 8.2 | 8.2 | 7.3 | 6.1 | 5.3 | 4.1 | 4.9 | 5.3 | 6.1 |
| 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: P367667
 CATALOG NUMBER: MSA-SA3A-727-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: P367667
 CATALOG NUMBER: MSA-SA3A-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 55° | 57.5° | 60° | 62.5° | 65° | 67.5° | 70° | 72.5° | 75° | 77.5° | 80° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 |
| 2.5° | 946.4 | 934.1 | 921.9 | 909.2 | 897.0 | 868.5 | 839.9 | 811.3 | 782.8 | 804.0 | 824.8 |
| 5° | 987.6 | 963.9 | 939.8 | 916.2 | 892.1 | 881.5 | 871.3 | 860.7 | 850.1 | 851.7 | 853.8 |
| 7.5° | 737.9 | 722.4 | 706.9 | 691.0 | 675.5 | 672.2 | 669.4 | 666.1 | 662.9 | 669.8 | 676.3 |
| 10° | 622.5 | 600.9 | 578.8 | 557.2 | 535.2 | 523.4 | 511.5 | 499.7 | 487.9 | 486.6 | 485.0 |
| 12.5° | 587.0 | 553.9 | 521.3 | 488.3 | 455.2 | 429.5 | 403.8 | 378.1 | 352.4 | 354.5 | 356.5 |
| 15° | 450.7 | 417.7 | 385.1 | 352.0 | 319.0 | 298.2 | 277.0 | 256.2 | 235.0 | 228.8 | 222.7 |
| 17.5° | 283.1 | 258.6 | 234.1 | 209.3 | 184.8 | 177.9 | 171.3 | 164.4 | 157.5 | 155.4 | 153.4 |
| 20° | 176.6 | 166.0 | 155.4 | 144.4 | 133.8 | 132.2 | 130.5 | 128.9 | 127.3 | 128.5 | 129.7 |
| 22.5° | 137.5 | 133.0 | 128.1 | 123.6 | 118.7 | 117.1 | 115.4 | 113.8 | 112.2 | 113.4 | 114.2 |
| 25° | 122.4 | 119.1 | 115.8 | 112.6 | 109.3 | 107.7 | 105.6 | 104.0 | 102.0 | 102.8 | 104.0 |
| 27.5° | 113.8 | 111.0 | 108.1 | 105.2 | 102.4 | 99.5 | 97.1 | 94.2 | 91.4 | 93.0 | 94.2 |
| 30° | 106.1 | 102.8 | 99.9 | 96.7 | 93.4 | 90.6 | 87.7 | 84.4 | 81.6 | 83.2 | 84.8 |
| 32.5° | 95.5 | 92.6 | 89.3 | 86.5 | 83.2 | 81.6 | 80.0 | 77.9 | 76.3 | 77.5 | 78.3 |
| 35° | 84.4 | 82.0 | 80.0 | 77.5 | 75.1 | 73.4 | 72.2 | 70.6 | 68.9 | 69.3 | 70.2 |
| 37.5° | 79.1 | 76.3 | 73.4 | 70.6 | 67.7 | 66.9 | 66.1 | 64.9 | 64.0 | 64.0 | 64.0 |
| 40° | 73.8 | 71.0 | 68.1 | 64.9 | 62.0 | 60.8 | 59.6 | 58.3 | 57.1 | 57.1 | 57.1 |
| 42.5° | 67.7 | 64.9 | 62.0 | 59.1 | 56.3 | 55.1 | 53.4 | 52.2 | 50.6 | 50.6 | 50.6 |
| 45° | 62.8 | 60.0 | 57.5 | 54.7 | 51.8 | 49.8 | 47.7 | 45.3 | 43.2 | 42.8 | 42.4 |
| 47.5° | 61.2 | 57.1 | 53.0 | 48.9 | 44.9 | 42.8 | 40.8 | 38.3 | 36.3 | 35.9 | 35.5 |
| 50° | 70.2 | 62.0 | 53.8 | 45.7 | 37.5 | 35.9 | 34.3 | 32.6 | 31.0 | 30.2 | 29.8 |
| 52.5° | 66.5 | 57.9 | 49.4 | 40.8 | 32.2 | 31.0 | 29.8 | 28.6 | 27.3 | 26.5 | 25.7 |
| 55° | 42.8 | 39.2 | 35.9 | 32.2 | 28.6 | 27.7 | 26.9 | 25.7 | 24.9 | 24.1 | 23.3 |
| 57.5° | 34.3 | 32.2 | 30.6 | 28.6 | 26.5 | 25.7 | 24.9 | 23.7 | 22.8 | 21.6 | 20.8 |
| 60° | 31.0 | 29.4 | 27.7 | 26.1 | 24.5 | 23.7 | 22.8 | 22.0 | 21.2 | 20.0 | 19.2 |
| 62.5° | 28.1 | 26.9 | 25.7 | 24.5 | 23.3 | 22.4 | 21.6 | 20.8 | 20.0 | 18.8 | 17.5 |
| 65° | 25.3 | 24.5 | 23.7 | 22.8 | 22.0 | 21.2 | 20.4 | 19.2 | 18.4 | 17.1 | 15.9 |
| 67.5° | 23.3 | 22.8 | 22.4 | 22.0 | 21.6 | 20.8 | 19.6 | 18.8 | 17.5 | 16.3 | 14.7 |
| 70° | 22.0 | 22.0 | 22.0 | 21.6 | 21.6 | 20.8 | 19.6 | 18.8 | 17.5 | 15.9 | 14.7 |
| 72.5° | 20.8 | 21.2 | 21.6 | 21.6 | 22.0 | 20.8 | 19.6 | 18.4 | 17.1 | 15.5 | 14.3 |
| 75° | 20.0 | 20.4 | 20.8 | 20.8 | 21.2 | 20.4 | 19.6 | 18.4 | 17.5 | 15.9 | 14.3 |
| 77.5° | 20.4 | 20.8 | 20.8 | 21.2 | 21.2 | 20.4 | 19.6 | 18.4 | 17.5 | 15.5 | 13.5 |
| 80° | 20.4 | 20.0 | 19.6 | 18.8 | 18.4 | 16.7 | 15.1 | 13.1 | 11.4 | 9.0 | 6.9 |
| 82.5° | 15.9 | 15.1 | 14.7 | 13.9 | 13.1 | 11.4 | 9.8 | 8.2 | 6.5 | 4.9 | 3.3 |
| 85° | 12.6 | 11.8 | 11.4 | 10.6 | 9.8 | 8.6 | 6.9 | 5.7 | 4.1 | 3.3 | 2.0 |
| 87.5° | 6.5 | 6.1 | 5.3 | 4.9 | 4.1 | 3.3 | 2.0 | 1.2 | 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: P367667
 CATALOG NUMBER: MSA-SA3A-727-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: P367667
 CATALOG NUMBER: MSA-SA3A-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 82.5° | 85° | 87.5° | 90° | 92.5° | 95° | 97.5° | 100° | 102.5° | 105° | 107.5° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|--------|
| 0° | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 |
| 2.5° | 846.0 | 866.8 | 864.0 | 861.1 | 874.6 | 888.0 | 878.2 | 868.9 | 859.1 | 849.3 | 828.9 |
| 5° | 855.4 | 857.0 | 854.2 | 850.9 | 851.3 | 851.7 | 845.2 | 838.7 | 832.1 | 825.6 | 824.4 |
| 7.5° | 683.3 | 689.8 | 698.8 | 707.3 | 707.7 | 707.7 | 702.8 | 697.9 | 692.6 | 687.7 | 690.2 |
| 10° | 483.8 | 482.2 | 484.6 | 487.1 | 486.6 | 485.8 | 498.9 | 511.9 | 524.6 | 537.6 | 528.2 |
| 12.5° | 358.1 | 360.2 | 350.0 | 339.8 | 343.5 | 346.7 | 348.8 | 350.8 | 352.8 | 354.9 | 360.6 |
| 15° | 216.6 | 210.5 | 203.1 | 195.8 | 199.5 | 202.7 | 206.4 | 209.7 | 213.3 | 216.6 | 220.3 |
| 17.5° | 150.9 | 148.9 | 145.6 | 142.0 | 142.4 | 142.8 | 143.2 | 143.6 | 143.6 | 144.0 | 144.8 |
| 20° | 130.9 | 132.2 | 129.7 | 126.9 | 126.0 | 124.8 | 124.0 | 123.2 | 122.0 | 121.2 | 119.9 |
| 22.5° | 115.4 | 116.3 | 116.7 | 116.7 | 115.0 | 113.0 | 111.4 | 110.1 | 108.5 | 106.9 | 106.1 |
| 25° | 104.8 | 105.6 | 104.8 | 103.6 | 102.8 | 102.0 | 101.2 | 99.9 | 99.1 | 97.9 | 97.5 |
| 27.5° | 95.9 | 97.1 | 97.1 | 96.7 | 95.9 | 94.6 | 92.6 | 91.0 | 88.9 | 86.9 | 87.3 |
| 30° | 86.5 | 88.1 | 88.1 | 87.7 | 87.3 | 86.9 | 84.8 | 82.8 | 80.8 | 78.7 | 79.5 |
| 32.5° | 79.5 | 80.4 | 80.0 | 79.5 | 79.5 | 79.1 | 77.5 | 76.3 | 74.6 | 73.0 | 73.0 |
| 35° | 70.6 | 71.0 | 71.0 | 71.0 | 71.0 | 70.6 | 69.3 | 68.1 | 66.9 | 65.7 | 66.1 |
| 37.5° | 64.0 | 64.0 | 65.3 | 66.1 | 65.3 | 64.5 | 63.6 | 62.4 | 61.6 | 60.4 | 60.4 |
| 40° | 56.7 | 56.7 | 57.9 | 58.7 | 57.9 | 57.1 | 56.7 | 55.9 | 55.5 | 54.7 | 54.7 |
| 42.5° | 50.2 | 50.2 | 51.4 | 52.2 | 52.2 | 51.8 | 51.0 | 50.2 | 49.4 | 48.5 | 48.9 |
| 45° | 42.0 | 41.6 | 43.6 | 45.3 | 44.5 | 43.6 | 43.6 | 43.2 | 43.2 | 42.8 | 43.2 |
| 47.5° | 34.7 | 34.3 | 35.9 | 37.5 | 37.1 | 36.3 | 36.3 | 36.3 | 36.3 | 36.3 | 36.7 |
| 50° | 29.0 | 28.1 | 29.8 | 31.0 | 30.6 | 29.8 | 29.8 | 30.2 | 30.2 | 30.2 | 30.6 |
| 52.5° | 24.9 | 24.1 | 25.3 | 26.1 | 25.7 | 25.3 | 25.3 | 25.7 | 25.7 | 25.7 | 26.1 |
| 55° | 22.0 | 21.2 | 22.4 | 23.3 | 22.8 | 22.0 | 22.4 | 22.4 | 22.8 | 22.8 | 22.8 |
| 57.5° | 19.6 | 18.4 | 19.2 | 20.0 | 20.0 | 19.6 | 20.0 | 20.0 | 20.4 | 20.4 | 20.4 |
| 60° | 17.9 | 16.7 | 17.5 | 17.9 | 17.9 | 17.5 | 17.9 | 17.9 | 18.4 | 18.4 | 18.4 |
| 62.5° | 15.9 | 14.7 | 15.5 | 15.9 | 15.9 | 15.5 | 15.9 | 15.9 | 16.3 | 16.3 | 16.3 |
| 65° | 14.3 | 13.1 | 13.5 | 13.9 | 13.9 | 13.9 | 14.3 | 14.3 | 14.7 | 14.7 | 14.7 |
| 67.5° | 13.5 | 11.8 | 12.2 | 12.6 | 12.6 | 12.6 | 13.1 | 13.1 | 13.5 | 13.5 | 13.9 |
| 70° | 13.1 | 11.4 | 11.8 | 11.8 | 12.2 | 12.2 | 12.2 | 12.6 | 12.6 | 12.6 | 12.6 |
| 72.5° | 12.6 | 11.0 | 11.0 | 11.0 | 11.4 | 11.4 | 11.4 | 11.8 | 11.8 | 11.8 | 11.8 |
| 75° | 12.6 | 11.0 | 10.6 | 10.2 | 10.6 | 10.6 | 10.6 | 11.0 | 11.0 | 11.0 | 11.0 |
| 77.5° | 11.0 | 9.0 | 8.2 | 6.9 | 8.2 | 9.0 | 9.4 | 9.4 | 9.8 | 9.8 | 9.8 |
| 80° | 4.5 | 2.0 | 1.2 | 0.0 | 0.4 | 0.8 | 1.2 | 1.6 | 2.0 | 2.4 | 2.9 |
| 82.5° | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 1.2 | 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: P367667
 CATALOG NUMBER: MSA-SA3A-727-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: P367667
 CATALOG NUMBER: MSA-SA3A-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 110° | 112.5° | 115° | 117.5° | 120° | 122.5° | 125° | 127.5° | 130° | 132.5° | 135° |
|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|
| 0° | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 |
| 2.5° | 808.5 | 788.1 | 767.7 | 777.5 | 787.3 | 797.1 | 806.9 | 806.0 | 804.8 | 804.0 | 802.8 |
| 5° | 823.6 | 822.4 | 821.1 | 815.4 | 810.1 | 804.4 | 798.7 | 797.5 | 795.8 | 794.6 | 793.0 |
| 7.5° | 692.6 | 694.7 | 697.1 | 690.6 | 684.1 | 677.5 | 671.0 | 654.3 | 637.6 | 620.4 | 603.7 |
| 10° | 518.9 | 509.1 | 499.7 | 498.9 | 498.1 | 497.2 | 496.4 | 494.8 | 493.2 | 491.1 | 489.5 |
| 12.5° | 366.7 | 372.4 | 378.1 | 376.1 | 374.1 | 371.6 | 369.6 | 372.4 | 375.7 | 378.5 | 381.4 |
| 15° | 223.5 | 227.2 | 230.5 | 237.8 | 245.2 | 252.5 | 259.8 | 262.7 | 266.0 | 268.8 | 271.7 |
| 17.5° | 145.6 | 146.0 | 146.8 | 155.0 | 162.8 | 170.9 | 178.7 | 184.0 | 189.3 | 194.2 | 199.5 |
| 20° | 118.7 | 117.5 | 116.3 | 120.7 | 125.2 | 129.7 | 134.2 | 139.1 | 144.0 | 148.9 | 153.8 |
| 22.5° | 105.6 | 104.8 | 104.0 | 105.6 | 107.3 | 108.5 | 110.1 | 113.8 | 117.9 | 121.6 | 125.2 |
| 25° | 97.1 | 96.3 | 95.9 | 96.7 | 97.5 | 98.3 | 99.1 | 101.2 | 103.2 | 105.2 | 107.3 |
| 27.5° | 87.3 | 87.7 | 87.7 | 88.5 | 88.9 | 89.7 | 90.1 | 91.0 | 92.2 | 93.0 | 93.8 |
| 30° | 80.0 | 80.8 | 81.2 | 82.0 | 82.4 | 83.2 | 83.6 | 83.2 | 82.8 | 82.4 | 82.0 |
| 32.5° | 73.0 | 72.6 | 72.6 | 73.4 | 73.8 | 74.6 | 75.1 | 75.9 | 76.7 | 77.1 | 77.9 |
| 35° | 66.1 | 66.5 | 66.5 | 66.5 | 66.9 | 66.9 | 66.9 | 67.7 | 68.9 | 69.8 | 70.6 |
| 37.5° | 60.0 | 60.0 | 59.6 | 60.8 | 61.6 | 62.8 | 63.6 | 64.5 | 65.7 | 66.5 | 67.3 |
| 40° | 54.7 | 54.7 | 54.7 | 55.5 | 56.3 | 56.7 | 57.5 | 59.6 | 61.6 | 63.6 | 65.7 |
| 42.5° | 48.9 | 49.4 | 49.4 | 50.2 | 51.0 | 51.4 | 52.2 | 53.8 | 55.1 | 56.7 | 57.9 |
| 45° | 43.6 | 44.1 | 44.5 | 45.3 | 45.7 | 46.5 | 46.9 | 47.7 | 48.1 | 48.9 | 49.4 |
| 47.5° | 37.5 | 37.9 | 38.3 | 39.2 | 39.6 | 40.4 | 40.8 | 40.4 | 40.4 | 40.0 | 39.6 |
| 50° | 31.4 | 31.8 | 32.2 | 33.4 | 34.3 | 35.5 | 36.3 | 35.5 | 34.7 | 33.4 | 32.6 |
| 52.5° | 26.5 | 26.5 | 26.9 | 27.7 | 28.6 | 29.0 | 29.8 | 29.4 | 29.0 | 28.6 | 28.1 |
| 55° | 22.8 | 22.8 | 22.8 | 23.3 | 23.7 | 24.1 | 24.5 | 24.9 | 24.9 | 25.3 | 25.3 |
| 57.5° | 20.4 | 20.0 | 20.0 | 20.4 | 20.8 | 20.8 | 21.2 | 21.6 | 21.6 | 22.0 | 22.0 |
| 60° | 18.4 | 17.9 | 17.9 | 18.4 | 18.8 | 19.2 | 19.6 | 19.6 | 19.6 | 19.2 | 19.2 |
| 62.5° | 16.3 | 16.3 | 16.3 | 16.7 | 16.7 | 17.1 | 17.1 | 17.1 | 17.5 | 17.5 | 17.5 |
| 65° | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 14.7 | 14.7 | 15.1 | 15.1 | 15.5 | 15.5 |
| 67.5° | 13.9 | 14.3 | 14.3 | 13.9 | 13.5 | 13.1 | 12.6 | 13.1 | 13.1 | 13.5 | 13.5 |
| 70° | 12.6 | 12.6 | 12.6 | 12.2 | 11.8 | 11.4 | 11.0 | 11.0 | 11.0 | 10.6 | 10.6 |
| 72.5° | 11.8 | 11.4 | 11.4 | 11.0 | 10.2 | 9.8 | 9.0 | 8.6 | 8.6 | 8.2 | 7.8 |
| 75° | 11.0 | 10.6 | 10.6 | 9.8 | 9.0 | 8.2 | 7.3 | 6.9 | 6.1 | 5.7 | 4.9 |
| 77.5° | 9.8 | 9.8 | 9.8 | 8.6 | 7.8 | 6.5 | 5.3 | 4.5 | 3.7 | 2.4 | 1.6 |
| 80° | 3.3 | 3.7 | 4.1 | 3.7 | 3.7 | 3.3 | 2.9 | 2.0 | 1.6 | 0.8 | 0.0 |
| 82.5° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 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: P367667
 CATALOG NUMBER: MSA-SA3A-727-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: P367667
 CATALOG NUMBER: MSA-SA3A-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 137.5° | 140° | 142.5° | 145° | 147.5° | 150° | 152.5° | 155° | 157.5° | 160° | 162.5° |
|--------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|
| 0° | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 |
| 2.5° | 807.3 | 811.8 | 816.2 | 820.7 | 821.1 | 821.5 | 821.9 | 822.4 | 812.2 | 801.6 | 791.4 |
| 5° | 801.1 | 809.7 | 817.9 | 826.0 | 821.5 | 817.1 | 812.6 | 808.1 | 807.7 | 807.7 | 807.3 |
| 7.5° | 604.9 | 605.8 | 607.0 | 607.8 | 609.4 | 611.1 | 612.3 | 613.9 | 620.4 | 627.0 | 633.1 |
| 10° | 484.2 | 478.9 | 473.2 | 467.9 | 463.8 | 459.3 | 455.2 | 450.7 | 454.0 | 457.7 | 460.9 |
| 12.5° | 376.9 | 372.4 | 367.5 | 363.0 | 361.4 | 359.8 | 357.7 | 356.1 | 366.7 | 377.3 | 387.5 |
| 15° | 270.9 | 270.0 | 268.8 | 268.0 | 273.3 | 278.6 | 283.9 | 289.2 | 298.2 | 306.8 | 315.7 |
| 17.5° | 201.5 | 203.5 | 205.6 | 207.6 | 210.9 | 214.2 | 217.0 | 220.3 | 226.8 | 233.7 | 240.3 |
| 20° | 156.2 | 159.1 | 161.5 | 164.0 | 163.2 | 162.4 | 161.1 | 160.3 | 165.6 | 170.9 | 175.8 |
| 22.5° | 127.7 | 129.7 | 132.2 | 134.2 | 134.6 | 135.0 | 135.4 | 135.8 | 139.1 | 142.0 | 145.2 |
| 25° | 109.3 | 111.8 | 113.8 | 115.8 | 116.3 | 116.7 | 117.1 | 117.5 | 121.6 | 125.6 | 129.3 |
| 27.5° | 96.7 | 99.1 | 102.0 | 104.4 | 105.2 | 106.1 | 106.9 | 107.7 | 110.1 | 112.2 | 114.6 |
| 30° | 85.3 | 88.5 | 91.8 | 95.0 | 96.3 | 97.5 | 98.7 | 99.9 | 102.4 | 105.2 | 107.7 |
| 32.5° | 79.5 | 81.6 | 83.2 | 84.8 | 87.7 | 90.1 | 93.0 | 95.5 | 98.3 | 101.6 | 104.4 |
| 35° | 73.0 | 75.1 | 77.5 | 79.5 | 81.6 | 83.6 | 85.3 | 87.3 | 88.9 | 90.6 | 91.8 |
| 37.5° | 68.9 | 71.0 | 72.6 | 74.2 | 75.1 | 75.9 | 76.3 | 77.1 | 77.9 | 78.7 | 79.1 |
| 40° | 65.7 | 65.3 | 65.3 | 64.9 | 65.7 | 66.9 | 67.7 | 68.5 | 71.0 | 73.0 | 75.5 |
| 42.5° | 57.1 | 55.9 | 55.1 | 53.8 | 55.9 | 57.5 | 59.6 | 61.2 | 64.5 | 67.7 | 71.0 |
| 45° | 48.5 | 47.7 | 46.5 | 45.7 | 48.5 | 51.4 | 54.3 | 57.1 | 60.8 | 64.0 | 67.7 |
| 47.5° | 40.0 | 40.4 | 40.4 | 40.8 | 43.6 | 46.5 | 48.9 | 51.8 | 55.5 | 59.1 | 62.8 |
| 50° | 33.4 | 34.3 | 35.1 | 35.9 | 38.8 | 41.2 | 44.1 | 46.5 | 50.6 | 54.3 | 58.3 |
| 52.5° | 29.4 | 30.6 | 31.4 | 32.6 | 35.1 | 37.9 | 40.4 | 42.8 | 46.5 | 50.2 | 53.8 |
| 55° | 26.5 | 28.1 | 29.4 | 30.6 | 32.6 | 34.7 | 36.7 | 38.8 | 42.4 | 46.1 | 49.4 |
| 57.5° | 23.3 | 24.5 | 25.7 | 26.9 | 29.0 | 31.0 | 32.6 | 34.7 | 37.9 | 41.6 | 44.9 |
| 60° | 20.4 | 21.2 | 22.4 | 23.3 | 24.9 | 26.9 | 28.6 | 30.2 | 33.4 | 36.7 | 39.6 |
| 62.5° | 17.9 | 18.8 | 19.2 | 19.6 | 21.2 | 22.8 | 24.5 | 26.1 | 29.0 | 32.2 | 35.1 |
| 65° | 15.9 | 16.3 | 16.3 | 16.7 | 17.9 | 19.6 | 20.8 | 22.0 | 25.3 | 28.1 | 31.4 |
| 67.5° | 13.5 | 13.9 | 13.9 | 13.9 | 15.1 | 16.3 | 17.5 | 18.8 | 21.6 | 24.9 | 27.7 |
| 70° | 10.6 | 11.0 | 11.0 | 11.0 | 12.2 | 13.9 | 15.1 | 16.3 | 18.8 | 21.2 | 23.7 |
| 72.5° | 8.2 | 8.2 | 8.6 | 8.6 | 9.8 | 11.4 | 12.6 | 13.9 | 15.9 | 17.9 | 20.0 |
| 75° | 5.3 | 5.7 | 5.7 | 6.1 | 7.3 | 9.0 | 10.2 | 11.4 | 13.5 | 15.5 | 17.1 |
| 77.5° | 2.0 | 2.9 | 3.3 | 3.7 | 4.9 | 6.1 | 7.3 | 8.6 | 10.2 | 12.2 | 13.9 |
| 80° | 0.0 | 0.4 | 0.4 | 0.4 | 1.2 | 1.6 | 2.4 | 2.9 | 4.1 | 5.7 | 6.9 |
| 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: P367667
 CATALOG NUMBER: MSA-SA3A-727-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 |



REPORT NUMBER: P367667
 CATALOG NUMBER: MSA-SA3A-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 165° | 167.5° | 170° | 172.5° | 175° | 177.5° | 180° | 182.5° | 185° | 187.5° | 190° |
|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|
| 0° | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 |
| 2.5° | 780.7 | 803.2 | 825.6 | 848.1 | 870.5 | 898.2 | 926.0 | 930.0 | 934.1 | 929.2 | 924.7 |
| 5° | 806.9 | 817.9 | 828.5 | 839.5 | 850.1 | 881.9 | 913.3 | 913.7 | 913.7 | 914.1 | 914.1 |
| 7.5° | 639.6 | 649.0 | 658.4 | 667.3 | 676.7 | 697.5 | 718.3 | 726.1 | 733.4 | 731.8 | 730.2 |
| 10° | 464.2 | 476.4 | 488.3 | 500.5 | 512.3 | 531.5 | 550.7 | 558.0 | 565.0 | 587.4 | 610.2 |
| 12.5° | 398.1 | 410.0 | 421.8 | 433.2 | 445.0 | 464.6 | 484.2 | 498.5 | 512.3 | 526.2 | 540.1 |
| 15° | 324.3 | 333.7 | 343.5 | 352.8 | 362.2 | 371.2 | 380.2 | 397.7 | 414.8 | 428.7 | 442.6 |
| 17.5° | 246.8 | 250.9 | 254.5 | 258.6 | 262.3 | 266.4 | 270.4 | 277.8 | 284.7 | 297.0 | 308.8 |
| 20° | 181.1 | 184.4 | 187.6 | 190.5 | 193.8 | 197.8 | 201.9 | 207.2 | 212.1 | 215.0 | 217.4 |
| 22.5° | 148.1 | 153.0 | 157.9 | 162.4 | 167.2 | 170.1 | 173.0 | 174.6 | 176.2 | 177.4 | 178.7 |
| 25° | 133.4 | 137.9 | 142.0 | 146.4 | 150.5 | 151.7 | 153.0 | 156.2 | 159.5 | 159.5 | 159.5 |
| 27.5° | 116.7 | 122.8 | 129.3 | 135.4 | 141.5 | 143.2 | 144.4 | 145.6 | 146.4 | 144.8 | 142.8 |
| 30° | 110.1 | 116.3 | 122.4 | 128.1 | 134.2 | 136.7 | 138.7 | 139.9 | 141.1 | 139.1 | 137.1 |
| 32.5° | 107.3 | 113.0 | 118.3 | 124.0 | 129.3 | 132.6 | 135.4 | 138.7 | 141.5 | 142.0 | 142.8 |
| 35° | 93.4 | 97.1 | 101.2 | 104.8 | 108.5 | 110.1 | 111.8 | 113.0 | 113.8 | 113.8 | 113.8 |
| 37.5° | 80.0 | 84.8 | 90.1 | 95.0 | 99.9 | 103.6 | 107.3 | 107.7 | 107.7 | 108.5 | 109.7 |
| 40° | 77.5 | 82.4 | 87.3 | 91.8 | 96.7 | 100.8 | 104.4 | 104.8 | 105.2 | 106.1 | 106.9 |
| 42.5° | 74.2 | 79.5 | 84.8 | 90.1 | 95.5 | 99.5 | 103.2 | 103.2 | 102.8 | 104.0 | 104.8 |
| 45° | 71.0 | 76.3 | 81.2 | 86.5 | 91.4 | 96.7 | 101.6 | 100.3 | 98.7 | 100.8 | 102.4 |
| 47.5° | 66.5 | 72.2 | 77.9 | 83.2 | 88.9 | 93.8 | 98.3 | 97.5 | 96.3 | 98.3 | 100.3 |
| 50° | 62.0 | 67.7 | 73.4 | 79.1 | 84.8 | 90.1 | 95.0 | 94.2 | 93.4 | 95.9 | 97.9 |
| 52.5° | 57.5 | 63.2 | 69.3 | 75.1 | 80.8 | 85.3 | 89.3 | 88.9 | 88.5 | 91.0 | 93.8 |
| 55° | 53.0 | 58.3 | 64.0 | 69.3 | 74.6 | 79.5 | 84.0 | 83.2 | 82.4 | 84.4 | 86.5 |
| 57.5° | 48.1 | 53.4 | 58.3 | 63.6 | 68.5 | 72.6 | 76.3 | 75.1 | 73.8 | 76.3 | 78.7 |
| 60° | 42.8 | 47.7 | 52.6 | 57.1 | 62.0 | 65.3 | 68.1 | 67.3 | 66.1 | 68.5 | 71.0 |
| 62.5° | 37.9 | 42.4 | 46.9 | 51.0 | 55.5 | 57.9 | 60.4 | 59.6 | 58.7 | 61.2 | 64.0 |
| 65° | 34.3 | 37.9 | 41.2 | 44.9 | 48.1 | 50.6 | 53.0 | 51.8 | 50.6 | 53.4 | 55.9 |
| 67.5° | 30.6 | 33.4 | 36.7 | 39.6 | 42.4 | 44.5 | 46.5 | 45.7 | 44.5 | 46.5 | 48.5 |
| 70° | 26.1 | 29.0 | 31.8 | 34.3 | 37.1 | 39.2 | 41.2 | 40.0 | 38.3 | 40.4 | 42.4 |
| 72.5° | 22.0 | 24.5 | 26.9 | 29.0 | 31.4 | 33.0 | 34.7 | 33.4 | 32.2 | 33.9 | 35.5 |
| 75° | 19.2 | 21.2 | 23.3 | 24.9 | 26.9 | 27.7 | 28.6 | 28.1 | 27.3 | 29.0 | 30.2 |
| 77.5° | 15.5 | 17.1 | 19.2 | 20.8 | 22.4 | 22.4 | 22.4 | 22.8 | 22.8 | 24.5 | 26.5 |
| 80° | 8.2 | 9.8 | 11.4 | 12.6 | 14.3 | 14.3 | 13.9 | 14.7 | 15.1 | 17.1 | 19.2 |
| 82.5° | 0.0 | 1.2 | 2.4 | 3.7 | 4.9 | 4.5 | 3.7 | 4.1 | 4.1 | 4.9 | 5.7 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.8 |
| 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: P367667
 CATALOG NUMBER: MSA-SA3A-727-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: P367667
 CATALOG NUMBER: MSA-SA3A-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 192.5° | 195° | 197.5° | 200° | 202.5° | 205° | 207.5° | 210° | 212.5° | 215° | 217.5° |
|--------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|
| 0° | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 |
| 2.5° | 919.8 | 915.0 | 911.7 | 908.8 | 905.6 | 902.3 | 906.4 | 910.5 | 914.1 | 918.2 | 930.5 |
| 5° | 914.5 | 914.5 | 911.7 | 908.8 | 906.0 | 903.1 | 909.2 | 915.0 | 921.1 | 926.8 | 926.4 |
| 7.5° | 728.1 | 726.5 | 743.6 | 760.4 | 777.5 | 794.2 | 798.7 | 803.2 | 807.3 | 811.8 | 810.5 |
| 10° | 632.7 | 655.1 | 662.5 | 669.8 | 677.1 | 684.5 | 693.5 | 702.4 | 711.4 | 720.4 | 723.6 |
| 12.5° | 553.9 | 567.8 | 591.5 | 614.7 | 638.4 | 661.6 | 673.5 | 685.7 | 697.5 | 709.4 | 732.6 |
| 15° | 456.5 | 470.3 | 490.7 | 511.1 | 531.5 | 551.9 | 570.7 | 589.8 | 608.6 | 627.4 | 655.5 |
| 17.5° | 321.0 | 332.9 | 348.4 | 363.9 | 379.0 | 394.5 | 423.4 | 452.4 | 481.3 | 510.3 | 540.1 |
| 20° | 220.3 | 222.7 | 230.1 | 237.8 | 245.2 | 252.5 | 278.6 | 305.1 | 331.2 | 357.3 | 396.5 |
| 22.5° | 179.5 | 180.7 | 184.4 | 188.0 | 191.3 | 195.0 | 208.4 | 222.3 | 235.8 | 249.2 | 281.1 |
| 25° | 159.1 | 159.1 | 161.5 | 164.0 | 166.4 | 168.9 | 176.2 | 183.6 | 190.5 | 197.8 | 218.2 |
| 27.5° | 141.1 | 139.1 | 142.8 | 146.4 | 150.1 | 153.8 | 159.1 | 164.8 | 170.1 | 175.4 | 189.3 |
| 30° | 135.0 | 133.0 | 137.5 | 142.0 | 146.4 | 150.9 | 156.2 | 161.5 | 166.4 | 171.7 | 181.1 |
| 32.5° | 143.2 | 143.6 | 145.2 | 146.8 | 148.1 | 149.7 | 152.2 | 155.0 | 157.5 | 159.9 | 168.1 |
| 35° | 113.8 | 113.8 | 116.7 | 119.5 | 122.0 | 124.8 | 129.3 | 133.8 | 138.3 | 142.8 | 151.3 |
| 37.5° | 110.5 | 111.4 | 113.8 | 116.7 | 119.1 | 121.6 | 127.3 | 133.4 | 139.1 | 144.8 | 151.7 |
| 40° | 107.3 | 108.1 | 111.4 | 114.6 | 117.9 | 121.2 | 126.9 | 132.2 | 137.9 | 143.2 | 149.7 |
| 42.5° | 106.1 | 106.9 | 111.0 | 115.4 | 119.5 | 123.6 | 128.5 | 133.4 | 137.9 | 142.8 | 151.7 |
| 45° | 104.4 | 106.1 | 111.0 | 116.3 | 121.2 | 126.0 | 130.5 | 135.0 | 139.5 | 144.0 | 155.0 |
| 47.5° | 102.0 | 104.0 | 109.7 | 115.0 | 120.7 | 126.0 | 134.6 | 143.6 | 152.2 | 160.7 | 166.0 |
| 50° | 100.3 | 102.4 | 108.5 | 114.6 | 120.7 | 126.9 | 140.7 | 154.6 | 168.1 | 181.9 | 179.1 |
| 52.5° | 96.3 | 98.7 | 106.5 | 114.2 | 122.0 | 129.7 | 142.0 | 154.2 | 166.4 | 178.7 | 173.0 |
| 55° | 88.5 | 90.6 | 99.5 | 108.5 | 117.1 | 126.0 | 135.0 | 144.0 | 152.6 | 161.5 | 155.0 |
| 57.5° | 80.8 | 83.2 | 91.8 | 100.3 | 108.5 | 117.1 | 121.6 | 126.0 | 130.5 | 135.0 | 132.6 |
| 60° | 73.4 | 75.9 | 87.3 | 98.7 | 110.1 | 121.6 | 117.5 | 113.4 | 108.9 | 104.8 | 107.7 |
| 62.5° | 66.5 | 68.9 | 80.0 | 90.6 | 101.6 | 112.2 | 106.5 | 100.8 | 95.0 | 89.3 | 93.8 |
| 65° | 58.7 | 61.2 | 65.3 | 69.8 | 73.8 | 77.9 | 77.5 | 76.7 | 76.3 | 75.5 | 80.4 |
| 67.5° | 50.6 | 52.6 | 54.7 | 57.1 | 59.1 | 61.2 | 62.4 | 64.0 | 65.3 | 66.5 | 70.6 |
| 70° | 44.1 | 46.1 | 48.5 | 50.6 | 53.0 | 55.1 | 55.9 | 56.7 | 57.1 | 57.9 | 61.6 |
| 72.5° | 36.7 | 38.3 | 41.6 | 44.9 | 47.7 | 51.0 | 51.4 | 51.4 | 51.8 | 51.8 | 54.7 |
| 75° | 31.8 | 33.0 | 35.5 | 37.9 | 40.0 | 42.4 | 43.6 | 44.9 | 45.7 | 46.9 | 48.5 |
| 77.5° | 28.1 | 29.8 | 30.6 | 31.0 | 31.8 | 32.2 | 33.0 | 33.9 | 34.7 | 35.5 | 35.9 |
| 80° | 20.8 | 22.8 | 23.7 | 24.1 | 24.9 | 25.3 | 25.3 | 24.9 | 24.9 | 24.5 | 24.9 |
| 82.5° | 6.5 | 7.3 | 8.6 | 9.8 | 11.0 | 12.2 | 12.6 | 13.1 | 13.1 | 13.5 | 13.1 |
| 85° | 1.2 | 1.6 | 2.4 | 3.3 | 3.7 | 4.5 | 4.1 | 3.3 | 2.9 | 2.0 | 1.6 |
| 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: P367667
 CATALOG NUMBER: MSA-SA3A-727-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: P367667
 CATALOG NUMBER: MSA-SA3A-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 220° | 222.5° | 225° | 227.5° | 230° | 232.5° | 235° | 237.5° | 240° | 242.5° | 245° |
|--------|-------|--------|-------|--------|-------|--------|-------|--------|--------|--------|--------|
| 0° | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 |
| 2.5° | 942.7 | 954.5 | 966.8 | 961.9 | 957.0 | 952.1 | 947.2 | 948.0 | 949.2 | 950.0 | 950.8 |
| 5° | 926.0 | 925.2 | 924.7 | 938.6 | 952.9 | 966.8 | 980.6 | 995.7 | 1011.2 | 1026.3 | 1041.4 |
| 7.5° | 809.3 | 807.7 | 806.4 | 824.4 | 842.3 | 860.3 | 878.2 | 899.0 | 920.3 | 941.1 | 961.9 |
| 10° | 726.9 | 730.2 | 733.4 | 740.8 | 748.5 | 755.9 | 763.2 | 783.2 | 803.2 | 822.8 | 842.8 |
| 12.5° | 755.9 | 778.7 | 802.0 | 806.4 | 810.5 | 815.0 | 819.1 | 821.9 | 824.8 | 827.7 | 830.5 |
| 15° | 684.1 | 712.2 | 740.4 | 752.2 | 763.6 | 775.4 | 786.9 | 817.1 | 846.8 | 877.0 | 906.8 |
| 17.5° | 569.9 | 599.2 | 629.0 | 664.5 | 700.0 | 735.5 | 771.0 | 803.6 | 836.2 | 868.9 | 901.5 |
| 20° | 436.1 | 475.2 | 514.4 | 559.3 | 604.5 | 649.4 | 694.3 | 726.9 | 759.1 | 791.8 | 824.0 |
| 22.5° | 313.3 | 345.1 | 376.9 | 431.2 | 485.0 | 539.3 | 593.1 | 649.8 | 706.9 | 763.6 | 820.3 |
| 25° | 238.6 | 258.6 | 279.0 | 332.5 | 385.9 | 438.9 | 492.4 | 570.3 | 648.2 | 726.1 | 804.0 |
| 27.5° | 202.7 | 216.6 | 230.1 | 278.2 | 326.3 | 374.1 | 422.2 | 514.8 | 607.4 | 700.0 | 792.6 |
| 30° | 190.9 | 200.3 | 209.7 | 250.5 | 291.7 | 332.5 | 373.2 | 467.1 | 560.9 | 654.7 | 748.5 |
| 32.5° | 176.2 | 184.0 | 192.1 | 228.0 | 263.9 | 299.4 | 335.3 | 427.1 | 518.9 | 610.2 | 702.0 |
| 35° | 159.5 | 168.1 | 176.2 | 212.1 | 248.0 | 283.5 | 319.4 | 414.4 | 509.5 | 604.5 | 699.6 |
| 37.5° | 158.3 | 165.2 | 171.7 | 213.3 | 255.4 | 297.0 | 338.6 | 433.6 | 528.7 | 623.3 | 718.3 |
| 40° | 156.6 | 163.2 | 169.7 | 212.1 | 254.1 | 296.6 | 338.6 | 438.1 | 537.6 | 637.2 | 736.7 |
| 42.5° | 160.7 | 169.3 | 178.3 | 215.8 | 253.3 | 290.4 | 328.0 | 432.8 | 537.6 | 642.1 | 746.9 |
| 45° | 166.4 | 177.4 | 188.5 | 222.7 | 257.0 | 291.3 | 325.5 | 439.3 | 553.1 | 666.5 | 780.3 |
| 47.5° | 171.7 | 177.0 | 182.3 | 215.0 | 247.2 | 279.8 | 312.1 | 428.3 | 544.6 | 660.8 | 777.1 |
| 50° | 176.6 | 173.8 | 170.9 | 206.8 | 242.7 | 278.2 | 314.1 | 425.0 | 535.6 | 646.5 | 757.1 |
| 52.5° | 166.8 | 161.1 | 155.0 | 193.4 | 231.7 | 269.6 | 308.0 | 419.7 | 531.5 | 643.3 | 755.0 |
| 55° | 148.5 | 142.0 | 135.4 | 173.4 | 210.9 | 248.8 | 286.4 | 397.7 | 509.1 | 620.4 | 731.8 |
| 57.5° | 129.7 | 127.3 | 124.4 | 153.4 | 182.3 | 210.9 | 239.9 | 363.5 | 487.5 | 611.1 | 734.7 |
| 60° | 110.5 | 113.0 | 115.8 | 136.7 | 157.5 | 177.9 | 198.7 | 319.8 | 440.5 | 561.7 | 682.4 |
| 62.5° | 97.9 | 102.4 | 106.5 | 124.0 | 142.0 | 159.5 | 177.0 | 291.3 | 405.5 | 519.7 | 633.9 |
| 65° | 85.7 | 90.6 | 95.5 | 116.3 | 137.5 | 158.3 | 179.1 | 275.8 | 372.4 | 469.1 | 565.8 |
| 67.5° | 74.6 | 78.3 | 82.4 | 109.7 | 137.1 | 164.4 | 191.7 | 270.9 | 349.6 | 428.7 | 507.4 |
| 70° | 65.3 | 68.5 | 72.2 | 104.0 | 135.8 | 167.7 | 199.5 | 266.8 | 334.5 | 401.8 | 469.1 |
| 72.5° | 57.5 | 60.4 | 63.2 | 95.5 | 127.7 | 159.9 | 192.1 | 252.1 | 311.6 | 371.6 | 431.2 |
| 75° | 50.2 | 51.4 | 53.0 | 80.4 | 107.3 | 134.6 | 161.5 | 201.5 | 241.9 | 281.9 | 321.8 |
| 77.5° | 36.3 | 36.3 | 36.7 | 44.9 | 52.6 | 60.8 | 68.5 | 93.4 | 118.3 | 142.8 | 167.7 |
| 80° | 24.9 | 25.3 | 25.3 | 28.6 | 31.4 | 34.7 | 37.5 | 42.8 | 47.7 | 53.0 | 57.9 |
| 82.5° | 12.6 | 11.8 | 11.4 | 14.7 | 17.9 | 21.2 | 24.5 | 25.7 | 26.5 | 27.7 | 28.6 |
| 85° | 1.2 | 0.4 | 0.0 | 2.0 | 4.1 | 6.1 | 8.2 | 9.8 | 11.4 | 13.1 | 14.7 |
| 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: P367667
 CATALOG NUMBER: MSA-SA3A-727-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: P367667

CATALOG NUMBER: MSA-SA3A-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 247.5° | 250° | 252.5° | 255° | 257.5° | 260° | 262.5° | 265° | 267.5° | 270° | 272.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 |
| 2.5° | 947.6 | 944.3 | 941.1 | 937.8 | 957.8 | 978.2 | 998.2 | 1018.2 | 1074.9 | 1112.0 | 1107.9 |
| 5° | 1056.1 | 1070.8 | 1085.5 | 1100.1 | 1123.8 | 1147.9 | 1171.5 | 1195.2 | 1279.2 | 1330.6 | 1338.0 |
| 7.5° | 984.7 | 1007.1 | 1030.0 | 1052.4 | 1098.1 | 1143.4 | 1189.1 | 1234.3 | 1303.3 | 1356.7 | 1386.9 |
| 10° | 868.5 | 894.1 | 919.4 | 945.1 | 996.5 | 1048.3 | 1099.7 | 1151.1 | 1228.6 | 1302.5 | 1340.4 |
| 12.5° | 870.9 | 911.3 | 951.7 | 992.0 | 1036.9 | 1081.8 | 1126.3 | 1171.1 | 1218.4 | 1243.3 | 1296.8 |
| 15° | 938.6 | 970.4 | 1002.2 | 1034.1 | 1092.8 | 1151.5 | 1209.9 | 1268.6 | 1296.8 | 1356.7 | 1419.1 |
| 17.5° | 963.5 | 1025.9 | 1087.9 | 1149.9 | 1223.3 | 1296.4 | 1369.8 | 1442.8 | 1495.8 | 1579.0 | 1643.5 |
| 20° | 917.4 | 1010.8 | 1103.8 | 1197.2 | 1298.0 | 1398.7 | 1499.5 | 1600.2 | 1658.2 | 1737.3 | 1836.8 |
| 22.5° | 919.4 | 1018.6 | 1117.3 | 1216.4 | 1355.5 | 1494.2 | 1633.3 | 1772.0 | 1927.4 | 2080.0 | 2128.5 |
| 25° | 933.7 | 1063.4 | 1192.7 | 1322.5 | 1483.2 | 1643.9 | 1804.6 | 1965.3 | 2153.0 | 2313.3 | 2377.7 |
| 27.5° | 938.6 | 1084.6 | 1230.3 | 1376.3 | 1604.7 | 1833.2 | 2061.6 | 2290.0 | 2514.0 | 2695.1 | 2764.0 |
| 30° | 926.8 | 1105.4 | 1283.7 | 1462.0 | 1742.2 | 2022.4 | 2302.7 | 2582.9 | 2795.4 | 3006.3 | 3092.0 |
| 32.5° | 929.6 | 1157.3 | 1384.9 | 1612.5 | 1942.5 | 2272.9 | 2602.9 | 2932.9 | 3068.7 | 3258.8 | 3409.8 |
| 35° | 949.2 | 1198.9 | 1448.1 | 1697.7 | 2062.8 | 2427.9 | 2793.0 | 3158.1 | 3380.8 | 3581.5 | 3709.6 |
| 37.5° | 994.9 | 1271.5 | 1547.6 | 1824.2 | 2272.9 | 2722.0 | 3170.7 | 3619.4 | 3964.1 | 4308.8 | 4367.5 |
| 40° | 1028.8 | 1320.8 | 1612.9 | 1905.0 | 2425.9 | 2946.8 | 3467.7 | 3988.6 | 4378.6 | 4752.6 | 4792.6 |
| 42.5° | 1067.1 | 1386.9 | 1707.1 | 2026.9 | 2609.4 | 3191.9 | 3774.4 | 4356.9 | 4808.5 | 5189.9 | 5216.4 |
| 45° | 1109.1 | 1438.3 | 1767.1 | 2095.9 | 2706.1 | 3315.9 | 3926.2 | 4536.0 | 5063.4 | 5506.4 | 5406.5 |
| 47.5° | 1129.1 | 1481.1 | 1833.2 | 2185.2 | 2839.5 | 3493.4 | 4147.7 | 4801.6 | 5274.7 | 5665.5 | 5548.9 |
| 50° | 1144.6 | 1531.7 | 1919.2 | 2306.3 | 2992.5 | 3678.6 | 4364.7 | 5050.8 | 5525.2 | 5885.8 | 5703.1 |
| 52.5° | 1188.3 | 1621.1 | 2054.3 | 2487.1 | 3216.8 | 3946.2 | 4675.9 | 5405.3 | 5864.2 | 6195.4 | 5939.2 |
| 55° | 1230.7 | 1729.2 | 2228.0 | 2726.5 | 3511.3 | 4296.6 | 5081.4 | 5866.2 | 6323.1 | 6607.0 | 6259.0 |
| 57.5° | 1284.1 | 1834.0 | 2383.4 | 2932.9 | 3772.4 | 4611.9 | 5451.0 | 6290.5 | 6737.1 | 7050.8 | 6689.4 |
| 60° | 1270.2 | 1857.6 | 2445.4 | 3032.8 | 3887.8 | 4742.8 | 5597.8 | 6452.8 | 6983.5 | 7369.0 | 7123.8 |
| 62.5° | 1216.4 | 1798.9 | 2381.0 | 2963.5 | 3803.4 | 4642.9 | 5482.8 | 6322.3 | 6958.2 | 7480.3 | 7397.9 |
| 65° | 1107.5 | 1648.8 | 2190.5 | 2731.8 | 3533.8 | 4336.1 | 5138.1 | 5940.1 | 6724.9 | 7389.4 | 7418.7 |
| 67.5° | 964.3 | 1421.2 | 1877.6 | 2334.5 | 3082.6 | 3830.7 | 4578.4 | 5326.5 | 6252.9 | 7028.0 | 7115.3 |
| 70° | 812.6 | 1155.6 | 1499.1 | 1842.1 | 2500.5 | 3158.9 | 3816.9 | 4475.2 | 5438.3 | 6218.3 | 6383.0 |
| 72.5° | 651.4 | 872.1 | 1092.4 | 1312.7 | 1787.9 | 2262.7 | 2737.9 | 3212.7 | 4060.0 | 4665.3 | 4952.9 |
| 75° | 422.2 | 522.5 | 622.9 | 723.2 | 1039.8 | 1355.9 | 1672.4 | 1988.6 | 2551.1 | 2996.9 | 3322.1 |
| 77.5° | 188.0 | 208.4 | 228.4 | 248.8 | 493.2 | 737.5 | 981.9 | 1226.2 | 1470.5 | 1739.8 | 1816.0 |
| 80° | 67.3 | 76.3 | 85.7 | 94.6 | 214.6 | 334.9 | 454.8 | 574.8 | 693.0 | 832.1 | 866.0 |
| 82.5° | 28.1 | 28.1 | 27.7 | 27.3 | 70.2 | 113.0 | 155.8 | 198.7 | 229.7 | 263.9 | 270.4 |
| 85° | 11.4 | 8.6 | 5.3 | 2.0 | 9.0 | 16.3 | 23.3 | 30.2 | 48.5 | 44.1 | 81.6 |
| 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: P367667
 CATALOG NUMBER: MSA-SA3A-727-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: P367667

CATALOG NUMBER: MSA-SA3A-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 275° | 277.5° | 280° | 282.5° | 285° | 287.5° | 290° | 292.5° | 295° | 297.5° | 300° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 |
| 2.5° | 1092.4 | 1091.6 | 1090.8 | 1089.9 | 1089.1 | 1074.4 | 1060.2 | 1045.5 | 1031.2 | 1049.2 | 1067.1 |
| 5° | 1326.1 | 1347.3 | 1368.6 | 1390.2 | 1411.4 | 1417.5 | 1423.6 | 1429.7 | 1435.9 | 1448.9 | 1462.0 |
| 7.5° | 1412.2 | 1448.1 | 1483.6 | 1519.5 | 1555.0 | 1588.0 | 1620.6 | 1653.7 | 1686.7 | 1678.6 | 1670.4 |
| 10° | 1382.4 | 1447.3 | 1512.1 | 1577.4 | 1642.3 | 1656.5 | 1670.8 | 1685.5 | 1699.8 | 1736.9 | 1774.0 |
| 12.5° | 1350.2 | 1428.1 | 1506.0 | 1583.9 | 1661.8 | 1705.1 | 1747.9 | 1791.2 | 1834.4 | 1871.9 | 1909.4 |
| 15° | 1503.2 | 1552.9 | 1602.7 | 1652.9 | 1702.6 | 1740.6 | 1778.1 | 1816.0 | 1853.6 | 1879.7 | 1905.4 |
| 17.5° | 1704.3 | 1728.7 | 1753.2 | 1778.1 | 1802.6 | 1832.4 | 1862.1 | 1891.9 | 1921.7 | 1937.2 | 1952.7 |
| 20° | 1916.8 | 1927.4 | 1938.0 | 1948.6 | 1959.2 | 1935.6 | 1911.9 | 1888.2 | 1864.6 | 1879.3 | 1893.5 |
| 22.5° | 2130.1 | 2133.8 | 2137.9 | 2141.6 | 2145.2 | 2090.2 | 2035.1 | 1980.0 | 1924.9 | 1901.7 | 1878.4 |
| 25° | 2458.5 | 2431.6 | 2404.7 | 2377.7 | 2350.8 | 2285.5 | 2220.3 | 2155.0 | 2089.7 | 2032.2 | 1974.7 |
| 27.5° | 2814.2 | 2722.8 | 2631.9 | 2540.5 | 2449.5 | 2384.3 | 2319.0 | 2253.7 | 2188.5 | 2102.0 | 2015.5 |
| 30° | 3172.8 | 3025.5 | 2878.7 | 2731.4 | 2584.5 | 2507.0 | 2429.5 | 2351.6 | 2274.1 | 2187.6 | 2101.6 |
| 32.5° | 3501.5 | 3324.5 | 3147.5 | 2970.0 | 2793.0 | 2662.5 | 2531.9 | 2401.4 | 2270.9 | 2210.5 | 2150.1 |
| 35° | 3774.0 | 3564.8 | 3355.5 | 3145.8 | 2936.6 | 2807.3 | 2678.0 | 2548.7 | 2419.3 | 2329.6 | 2240.3 |
| 37.5° | 4239.9 | 4004.5 | 3769.1 | 3533.8 | 3298.4 | 3121.8 | 2945.6 | 2768.9 | 2592.3 | 2532.3 | 2472.4 |
| 40° | 4669.4 | 4372.8 | 4076.3 | 3779.7 | 3483.2 | 3335.1 | 3187.4 | 3039.4 | 2891.7 | 2793.4 | 2695.5 |
| 42.5° | 5010.8 | 4698.4 | 4386.3 | 4073.8 | 3761.4 | 3614.9 | 3468.9 | 3322.5 | 3176.0 | 3110.3 | 3045.1 |
| 45° | 5084.7 | 4790.1 | 4496.0 | 4201.5 | 3907.0 | 3821.8 | 3736.9 | 3651.7 | 3566.8 | 3521.5 | 3476.7 |
| 47.5° | 5230.3 | 4910.9 | 4591.9 | 4272.5 | 3953.1 | 3914.8 | 3876.4 | 3837.7 | 3799.3 | 3820.9 | 3842.6 |
| 50° | 5311.9 | 4985.9 | 4660.0 | 4334.1 | 4008.2 | 4019.2 | 4029.8 | 4040.8 | 4051.8 | 4205.2 | 4358.2 |
| 52.5° | 5470.1 | 5140.9 | 4811.8 | 4482.6 | 4153.4 | 4222.7 | 4291.7 | 4361.0 | 4430.0 | 4641.3 | 4852.1 |
| 55° | 5752.8 | 5429.3 | 5105.9 | 4782.0 | 4458.5 | 4549.9 | 4641.3 | 4733.0 | 4824.4 | 5048.8 | 5272.7 |
| 57.5° | 6171.7 | 5850.7 | 5530.1 | 5209.1 | 4888.4 | 4979.4 | 5070.4 | 5161.3 | 5252.3 | 5455.0 | 5657.4 |
| 60° | 6699.2 | 6369.6 | 6040.4 | 5710.8 | 5381.6 | 5415.9 | 5449.7 | 5484.0 | 5518.3 | 5736.1 | 5953.5 |
| 62.5° | 7110.0 | 6806.9 | 6504.2 | 6201.1 | 5898.4 | 5860.5 | 5823.0 | 5785.0 | 5747.5 | 5913.1 | 6078.3 |
| 65° | 7205.4 | 6992.1 | 6779.1 | 6565.8 | 6352.5 | 6235.8 | 6119.5 | 6002.9 | 5886.2 | 5953.1 | 6020.0 |
| 67.5° | 6932.1 | 6788.1 | 6644.5 | 6500.5 | 6356.5 | 6113.0 | 5869.5 | 5625.6 | 5382.0 | 5346.5 | 5311.0 |
| 70° | 6297.8 | 6219.1 | 6140.7 | 6062.0 | 5983.7 | 5608.4 | 5233.5 | 4858.3 | 4483.4 | 4393.2 | 4303.1 |
| 72.5° | 4969.6 | 5018.6 | 5067.5 | 5116.9 | 5165.8 | 4764.0 | 4362.6 | 3960.9 | 3559.1 | 3444.8 | 3331.0 |
| 75° | 3504.4 | 3670.4 | 3836.4 | 4002.5 | 4168.5 | 3802.2 | 3436.3 | 3070.0 | 2703.7 | 2593.9 | 2484.6 |
| 77.5° | 1900.1 | 2211.3 | 2522.5 | 2833.8 | 3145.0 | 2842.8 | 2540.9 | 2238.6 | 1936.4 | 1860.1 | 1784.2 |
| 80° | 900.7 | 1080.2 | 1259.2 | 1438.7 | 1618.2 | 1550.1 | 1482.0 | 1413.4 | 1345.3 | 1362.0 | 1378.8 |
| 82.5° | 276.2 | 405.9 | 535.6 | 665.3 | 795.0 | 805.2 | 815.0 | 825.2 | 835.4 | 860.7 | 885.6 |
| 85° | 92.6 | 126.9 | 161.1 | 195.4 | 229.7 | 290.0 | 350.4 | 411.2 | 471.5 | 432.4 | 393.6 |
| 87.5° | 0.0 | 1.2 | 2.0 | 3.3 | 4.1 | 12.6 | 21.2 | 29.8 | 38.3 | 33.0 | 28.1 |
| 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: P367667
 CATALOG NUMBER: MSA-SA3A-727-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: P367667

CATALOG NUMBER: MSA-SA3A-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 302.5° | 305° | 307.5° | 310° | 312.5° | 315° | 317.5° | 320° | 322.5° | 325° | 327.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 |
| 2.5° | 1085.5 | 1103.4 | 1103.8 | 1104.6 | 1105.0 | 1105.4 | 1107.5 | 1109.5 | 1112.0 | 1114.0 | 1100.6 |
| 5° | 1475.4 | 1488.5 | 1464.4 | 1440.3 | 1415.9 | 1391.8 | 1413.4 | 1435.0 | 1456.7 | 1478.3 | 1468.9 |
| 7.5° | 1661.8 | 1653.7 | 1650.8 | 1648.4 | 1645.5 | 1643.1 | 1651.2 | 1659.4 | 1667.6 | 1675.7 | 1674.9 |
| 10° | 1811.1 | 1848.3 | 1857.2 | 1866.2 | 1875.6 | 1884.6 | 1865.8 | 1847.0 | 1828.3 | 1809.5 | 1801.8 |
| 12.5° | 1947.0 | 1984.5 | 2014.3 | 2044.1 | 2074.2 | 2104.0 | 2077.1 | 2050.6 | 2023.7 | 1997.2 | 1971.9 |
| 15° | 1931.5 | 1957.2 | 1981.6 | 2006.1 | 2030.6 | 2055.1 | 2046.1 | 2037.5 | 2028.6 | 2019.6 | 2015.5 |
| 17.5° | 1968.6 | 1984.1 | 1978.4 | 1972.7 | 1966.6 | 1960.8 | 1958.0 | 1955.5 | 1952.7 | 1949.8 | 1940.0 |
| 20° | 1908.2 | 1922.9 | 1919.2 | 1916.0 | 1912.3 | 1908.6 | 1906.2 | 1903.7 | 1901.3 | 1898.8 | 1891.1 |
| 22.5° | 1855.2 | 1831.9 | 1825.8 | 1820.1 | 1814.0 | 1808.3 | 1809.1 | 1809.9 | 1810.3 | 1811.1 | 1846.2 |
| 25° | 1917.2 | 1859.7 | 1837.2 | 1814.8 | 1792.0 | 1769.5 | 1779.7 | 1789.5 | 1799.7 | 1809.9 | 1860.5 |
| 27.5° | 1928.6 | 1842.1 | 1806.2 | 1770.3 | 1734.5 | 1698.6 | 1735.3 | 1772.0 | 1808.7 | 1845.4 | 1927.4 |
| 30° | 2015.1 | 1929.0 | 1878.9 | 1829.1 | 1778.9 | 1729.2 | 1776.1 | 1823.0 | 1869.9 | 1916.8 | 2005.7 |
| 32.5° | 2089.3 | 2029.0 | 1993.1 | 1957.2 | 1921.3 | 1885.4 | 1887.4 | 1889.1 | 1891.1 | 1893.1 | 2018.4 |
| 35° | 2150.5 | 2061.2 | 2028.6 | 1996.3 | 1963.7 | 1931.5 | 1980.0 | 2028.6 | 2077.1 | 2125.6 | 2238.2 |
| 37.5° | 2412.4 | 2352.4 | 2292.5 | 2232.9 | 2173.0 | 2113.4 | 2152.2 | 2190.9 | 2230.1 | 2268.8 | 2393.2 |
| 40° | 2597.2 | 2499.3 | 2483.8 | 2468.7 | 2453.2 | 2438.1 | 2458.1 | 2477.7 | 2497.7 | 2517.6 | 2626.6 |
| 42.5° | 2979.4 | 2913.7 | 2871.7 | 2830.1 | 2788.1 | 2746.5 | 2762.4 | 2778.3 | 2794.6 | 2810.5 | 2913.7 |
| 45° | 3431.4 | 3386.1 | 3358.4 | 3330.6 | 3302.5 | 3274.7 | 3250.7 | 3227.0 | 3202.9 | 3179.3 | 3284.1 |
| 47.5° | 3864.2 | 3885.8 | 3947.0 | 4007.8 | 4068.9 | 4129.7 | 4080.0 | 4030.2 | 3980.0 | 3930.3 | 3930.7 |
| 50° | 4511.5 | 4664.5 | 4695.5 | 4726.1 | 4757.1 | 4787.7 | 4681.6 | 4575.6 | 4469.1 | 4363.1 | 4350.4 |
| 52.5° | 5063.4 | 5274.3 | 5285.3 | 5296.4 | 5307.8 | 5318.8 | 5276.0 | 5233.1 | 5189.9 | 5147.1 | 5033.3 |
| 55° | 5497.1 | 5721.0 | 5736.1 | 5750.8 | 5765.9 | 5780.6 | 5743.0 | 5705.9 | 5668.4 | 5630.9 | 5515.8 |
| 57.5° | 5860.1 | 6062.4 | 6071.4 | 6080.0 | 6088.9 | 6097.9 | 6100.8 | 6103.6 | 6106.9 | 6109.7 | 5954.3 |
| 60° | 6171.3 | 6389.2 | 6371.2 | 6353.7 | 6335.7 | 6318.2 | 6291.3 | 6264.3 | 6237.4 | 6210.5 | 6110.2 |
| 62.5° | 6243.9 | 6409.6 | 6381.8 | 6354.5 | 6326.8 | 6299.4 | 6276.6 | 6254.1 | 6231.3 | 6208.5 | 6144.4 |
| 65° | 6086.9 | 6153.8 | 6125.2 | 6096.7 | 6067.7 | 6039.2 | 6024.5 | 6010.2 | 5995.5 | 5980.8 | 5972.7 |
| 67.5° | 5275.2 | 5239.7 | 5273.5 | 5307.4 | 5341.2 | 5375.1 | 5421.2 | 5467.3 | 5513.8 | 5559.9 | 5533.0 |
| 70° | 4212.5 | 4122.4 | 4159.9 | 4197.0 | 4234.6 | 4271.7 | 4341.4 | 4411.2 | 4481.4 | 4551.1 | 4532.3 |
| 72.5° | 3216.8 | 3102.6 | 3107.9 | 3113.2 | 3118.9 | 3124.2 | 3122.2 | 3120.5 | 3118.5 | 3116.5 | 3149.1 |
| 75° | 2374.9 | 2265.1 | 2213.3 | 2161.5 | 2109.7 | 2057.9 | 2045.3 | 2032.6 | 2020.0 | 2007.3 | 2068.1 |
| 77.5° | 1707.9 | 1632.1 | 1596.6 | 1561.5 | 1526.0 | 1490.9 | 1508.9 | 1526.8 | 1545.2 | 1563.1 | 1584.3 |
| 80° | 1395.9 | 1412.6 | 1385.3 | 1358.4 | 1331.0 | 1303.7 | 1324.1 | 1344.1 | 1364.5 | 1384.9 | 1321.6 |
| 82.5° | 910.9 | 935.8 | 851.7 | 767.7 | 683.7 | 599.6 | 650.6 | 701.6 | 753.0 | 804.0 | 777.9 |
| 85° | 354.5 | 315.7 | 269.2 | 223.1 | 176.6 | 130.1 | 169.3 | 208.4 | 247.6 | 286.8 | 312.9 |
| 87.5° | 22.8 | 17.9 | 14.3 | 10.6 | 6.5 | 2.9 | 6.1 | 9.4 | 13.1 | 16.3 | 27.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P367667
 CATALOG NUMBER: MSA-SA3A-727-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: P367667

CATALOG NUMBER: MSA-SA3A-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 330° | 332.5° | 335° | 337.5° | 340° | 342.5° | 345° | 347.5° | 350° | 352.5° | 355° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 | 862.3 |
| 2.5° | 1087.5 | 1074.0 | 1061.0 | 1035.3 | 1009.6 | 983.9 | 958.2 | 994.1 | 1030.0 | 1065.9 | 1101.8 |
| 5° | 1459.9 | 1450.5 | 1441.6 | 1444.0 | 1446.5 | 1449.3 | 1451.8 | 1457.1 | 1462.4 | 1467.3 | 1472.6 |
| 7.5° | 1674.5 | 1673.7 | 1672.9 | 1654.1 | 1635.3 | 1616.2 | 1597.4 | 1606.8 | 1616.2 | 1625.5 | 1634.9 |
| 10° | 1794.4 | 1786.7 | 1778.9 | 1737.7 | 1696.5 | 1654.9 | 1613.7 | 1595.8 | 1577.4 | 1559.5 | 1541.5 |
| 12.5° | 1946.6 | 1920.9 | 1895.6 | 1851.5 | 1807.9 | 1763.8 | 1719.8 | 1703.5 | 1686.7 | 1670.4 | 1653.7 |
| 15° | 2011.8 | 2007.8 | 2004.1 | 1972.7 | 1940.9 | 1909.4 | 1877.6 | 1821.7 | 1765.5 | 1709.6 | 1653.7 |
| 17.5° | 1930.3 | 1920.1 | 1910.3 | 1960.0 | 2009.4 | 2059.2 | 2108.9 | 2051.0 | 1993.1 | 1935.1 | 1877.2 |
| 20° | 1883.3 | 1875.6 | 1867.8 | 1960.4 | 2052.6 | 2145.2 | 2237.4 | 2211.7 | 2185.6 | 2159.9 | 2134.2 |
| 22.5° | 1881.3 | 1916.8 | 1951.9 | 2033.0 | 2113.8 | 2195.0 | 2275.8 | 2320.2 | 2365.1 | 2409.6 | 2454.0 |
| 25° | 1911.1 | 1962.1 | 2012.7 | 2147.3 | 2281.9 | 2416.9 | 2551.5 | 2602.5 | 2653.1 | 2704.1 | 2754.6 |
| 27.5° | 2009.0 | 2091.0 | 2172.6 | 2290.0 | 2407.5 | 2525.4 | 2642.9 | 2754.2 | 2866.0 | 2977.4 | 3088.7 |
| 30° | 2094.2 | 2183.2 | 2272.1 | 2412.0 | 2551.5 | 2691.4 | 2830.9 | 2970.4 | 3109.9 | 3249.4 | 3389.0 |
| 32.5° | 2143.6 | 2269.2 | 2394.5 | 2564.6 | 2734.3 | 2904.4 | 3074.5 | 3227.4 | 3380.4 | 3532.9 | 3685.9 |
| 35° | 2350.8 | 2463.8 | 2576.4 | 2764.4 | 2952.5 | 3140.9 | 3329.0 | 3518.3 | 3707.5 | 3896.4 | 4085.7 |
| 37.5° | 2517.6 | 2642.5 | 2766.9 | 2972.5 | 3177.7 | 3383.2 | 3588.8 | 3850.3 | 4112.2 | 4373.7 | 4635.1 |
| 40° | 2735.5 | 2844.4 | 2953.3 | 3145.8 | 3338.0 | 3530.5 | 3723.0 | 4054.7 | 4386.3 | 4717.5 | 5049.2 |
| 42.5° | 3016.5 | 3119.7 | 3222.9 | 3428.9 | 3634.9 | 3840.9 | 4046.9 | 4414.0 | 4781.2 | 5147.9 | 5515.0 |
| 45° | 3389.0 | 3494.2 | 3599.0 | 3763.0 | 3927.0 | 4091.0 | 4255.0 | 4645.3 | 5035.3 | 5425.7 | 5815.6 |
| 47.5° | 3931.1 | 3931.5 | 3931.9 | 4050.2 | 4168.5 | 4287.2 | 4405.5 | 4798.7 | 5191.5 | 5584.8 | 5977.6 |
| 50° | 4337.8 | 4324.7 | 4312.1 | 4373.3 | 4434.0 | 4495.2 | 4556.4 | 4918.2 | 5280.5 | 5642.3 | 6004.1 |
| 52.5° | 4919.9 | 4806.1 | 4692.6 | 4729.0 | 4764.9 | 4801.2 | 4837.1 | 5143.4 | 5450.1 | 5756.5 | 6062.8 |
| 55° | 5401.2 | 5286.2 | 5171.1 | 5157.7 | 5144.2 | 5130.8 | 5117.3 | 5399.2 | 5681.0 | 5962.9 | 6244.8 |
| 57.5° | 5799.3 | 5643.9 | 5488.9 | 5457.9 | 5427.3 | 5396.3 | 5365.3 | 5662.7 | 5959.6 | 6257.0 | 6554.0 |
| 60° | 6010.2 | 5909.9 | 5809.5 | 5789.5 | 5769.1 | 5749.1 | 5728.8 | 5972.7 | 6216.6 | 6460.6 | 6704.5 |
| 62.5° | 6080.8 | 6016.7 | 5953.1 | 5990.6 | 6028.2 | 6066.1 | 6103.6 | 6210.9 | 6317.8 | 6425.1 | 6531.9 |
| 65° | 5964.9 | 5956.8 | 5948.6 | 6025.7 | 6102.4 | 6179.5 | 6256.6 | 6230.1 | 6203.2 | 6176.6 | 6150.1 |
| 67.5° | 5506.4 | 5479.5 | 5453.0 | 5622.3 | 5791.2 | 5960.4 | 6129.7 | 6001.2 | 5872.3 | 5743.8 | 5615.4 |
| 70° | 4513.6 | 4494.4 | 4475.6 | 4719.6 | 4963.5 | 5207.8 | 5451.8 | 5296.0 | 5140.1 | 4984.3 | 4828.5 |
| 72.5° | 3181.3 | 3214.0 | 3246.6 | 3534.2 | 3821.3 | 4108.9 | 4396.1 | 4239.0 | 4082.0 | 3925.0 | 3767.9 |
| 75° | 2128.5 | 2189.3 | 2250.1 | 2546.2 | 2842.3 | 3138.9 | 3435.0 | 3250.7 | 3066.3 | 2881.9 | 2697.5 |
| 77.5° | 1605.6 | 1626.8 | 1648.0 | 1835.2 | 2022.4 | 2210.1 | 2397.3 | 2245.2 | 2092.6 | 1940.4 | 1787.9 |
| 80° | 1258.4 | 1194.8 | 1131.6 | 1193.2 | 1254.7 | 1316.3 | 1377.9 | 1287.0 | 1196.0 | 1105.4 | 1014.5 |
| 82.5° | 751.8 | 725.7 | 699.6 | 733.0 | 766.1 | 799.5 | 833.0 | 793.8 | 754.2 | 715.1 | 675.5 |
| 85° | 338.6 | 364.7 | 390.4 | 424.2 | 457.7 | 491.5 | 525.4 | 470.7 | 416.1 | 361.4 | 306.8 |
| 87.5° | 37.9 | 48.9 | 60.0 | 74.2 | 88.5 | 102.8 | 117.1 | 91.4 | 65.3 | 39.6 | 13.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P367667
 CATALOG NUMBER: MSA-SA3A-727-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: P367667
 CATALOG NUMBER: MSA-SA3A-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 357.5° | 360° |
|--------|--------|--------|
| 0° | 862.3 | 862.3 |
| 2.5° | 1122.6 | 1143.4 |
| 5° | 1472.2 | 1471.3 |
| 7.5° | 1610.4 | 1585.6 |
| 10° | 1518.7 | 1495.8 |
| 12.5° | 1595.4 | 1537.0 |
| 15° | 1609.6 | 1565.6 |
| 17.5° | 1805.4 | 1733.2 |
| 20° | 2041.6 | 1948.6 |
| 22.5° | 2326.7 | 2199.1 |
| 25° | 2602.9 | 2451.2 |
| 27.5° | 2997.8 | 2906.4 |
| 30° | 3296.8 | 3204.2 |
| 32.5° | 3623.1 | 3560.3 |
| 35° | 4023.3 | 3960.4 |
| 37.5° | 4651.5 | 4667.4 |
| 40° | 5059.0 | 5068.7 |
| 42.5° | 5552.9 | 5590.9 |
| 45° | 5858.1 | 5900.5 |
| 47.5° | 6036.7 | 6095.9 |
| 50° | 6099.5 | 6195.0 |
| 52.5° | 6180.7 | 6298.2 |
| 55° | 6375.7 | 6506.6 |
| 57.5° | 6658.4 | 6762.8 |
| 60° | 6709.4 | 6714.3 |
| 62.5° | 6456.5 | 6381.0 |
| 65° | 6069.8 | 5989.4 |
| 67.5° | 5566.8 | 5517.9 |
| 70° | 4764.0 | 4699.6 |
| 72.5° | 3648.0 | 3528.1 |
| 75° | 2549.1 | 2400.6 |
| 77.5° | 1710.0 | 1632.1 |
| 80° | 1016.9 | 1019.0 |
| 82.5° | 694.3 | 712.6 |
| 85° | 303.1 | 299.0 |
| 87.5° | 9.8 | 5.3 |
| 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: P367667
CATALOG NUMBER: MSA-SA3A-727-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)