

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: P366854

Luminaire Tested: **MSA-SA1B-830-U-SLR**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P366854
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-24)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA1B-830-U-SLR
Description: MESA POST TOP DECORATIVE LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3447 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

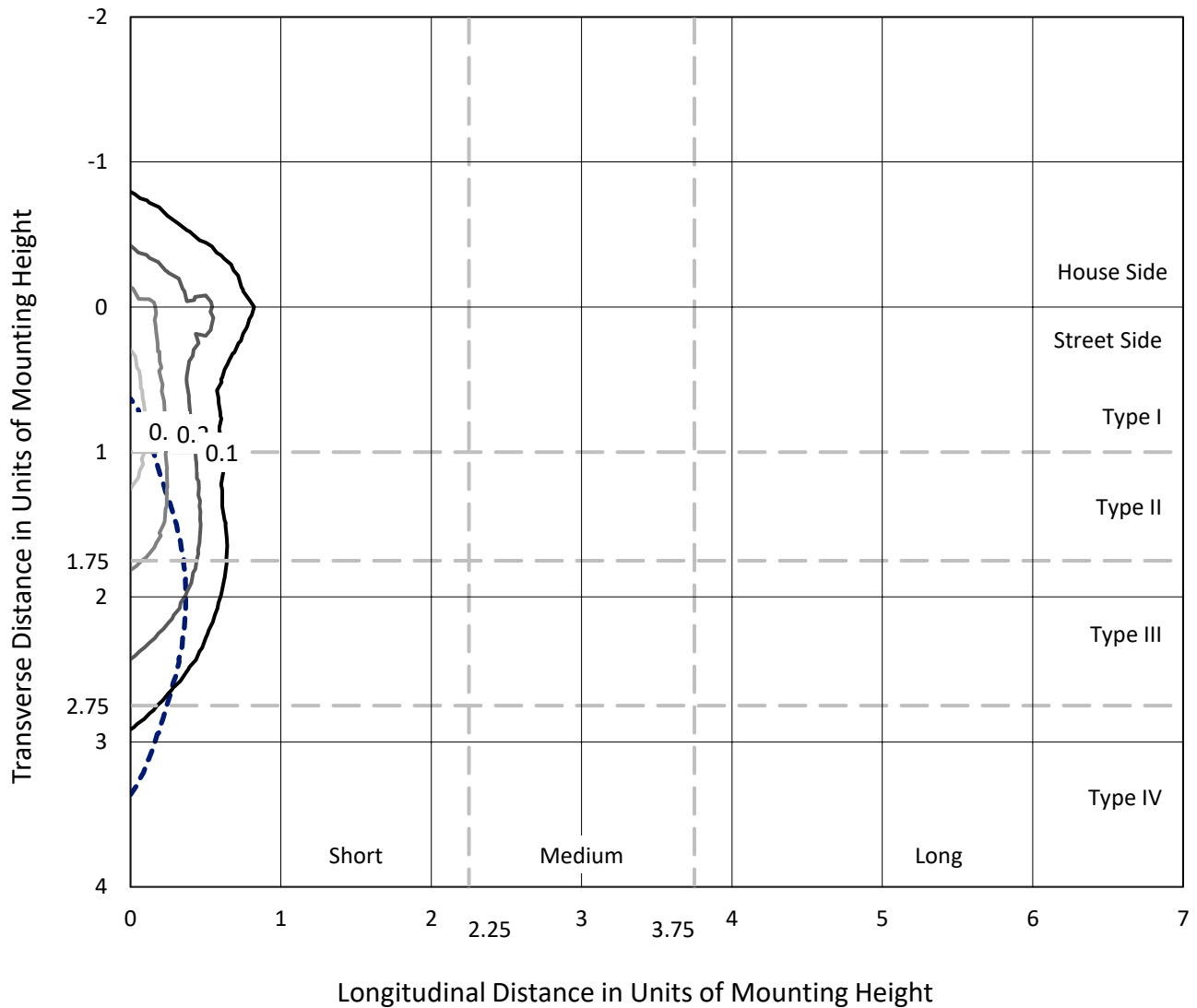
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

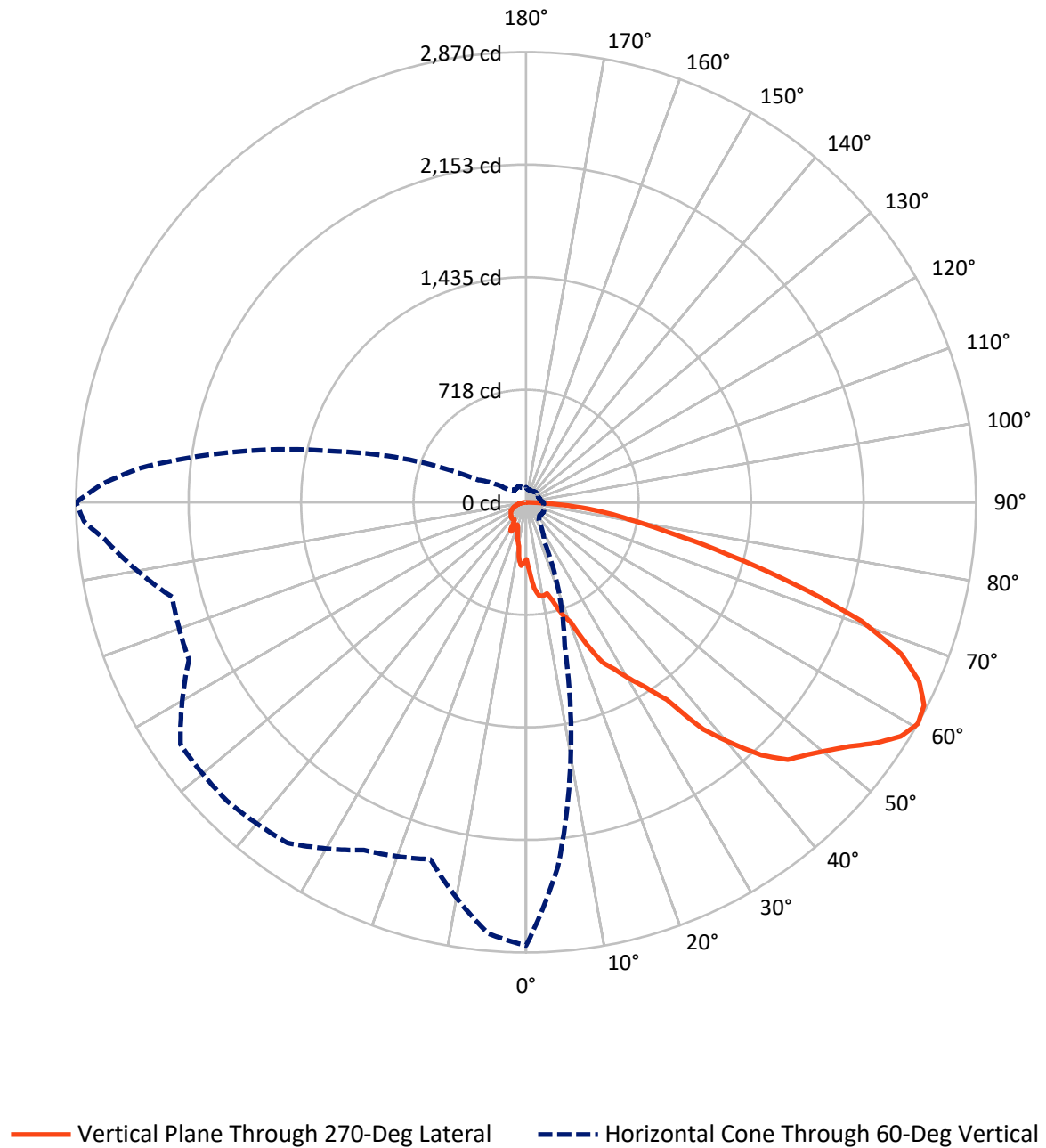
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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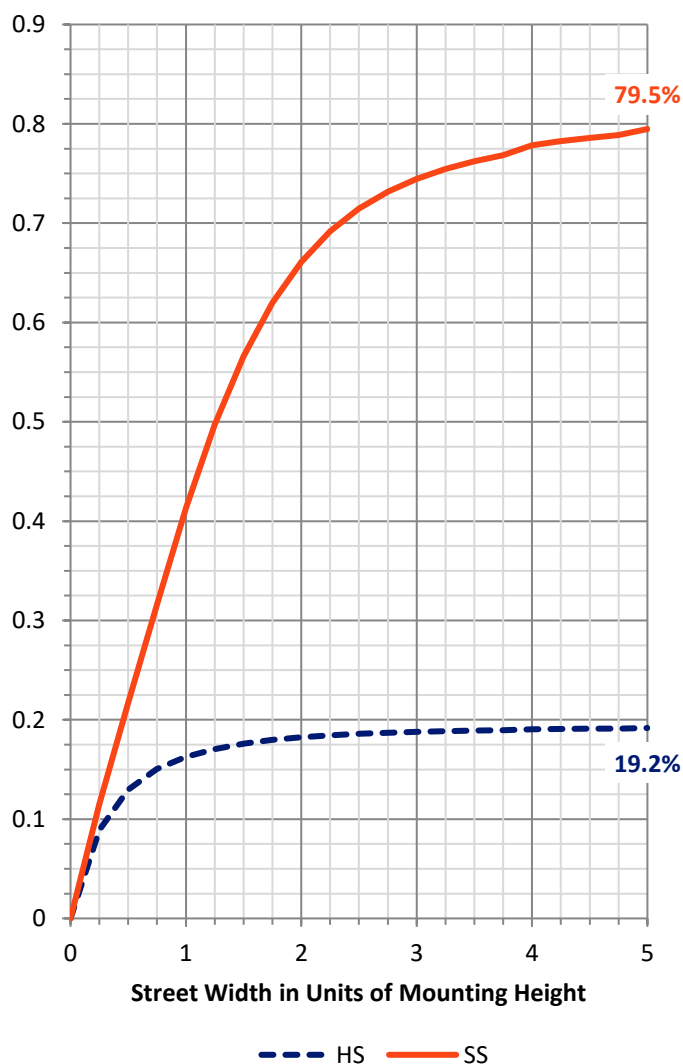
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 667.6 | 0.0 | 667.6 |
| | % Fixture | 19.4 | 0.0 | 19.4 |
| Street Side | Lumens | 2779.4 | 0.0 | 2779.4 |
| | % Fixture | 80.6 | 0.0 | 80.6 |
| Total | Lumens | 3447.0 | 0.0 | 3447.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 41.7 | 1.2 |
| 10°-20° | 121.1 | 3.5 |
| 20°-30° | 213.8 | 6.2 |
| 30°-40° | 333.0 | 9.7 |
| 40°-50° | 548.2 | 15.9 |
| 50°-60° | 782.5 | 22.7 |
| 60°-70° | 829.8 | 24.1 |
| 70°-80° | 458.3 | 13.3 |
| 80°-90° | 118.6 | 3.4 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 3447.0 | 100.0 |
| 0°-180° | 3447.0 | 100.0 |

Coefficient of Utilization

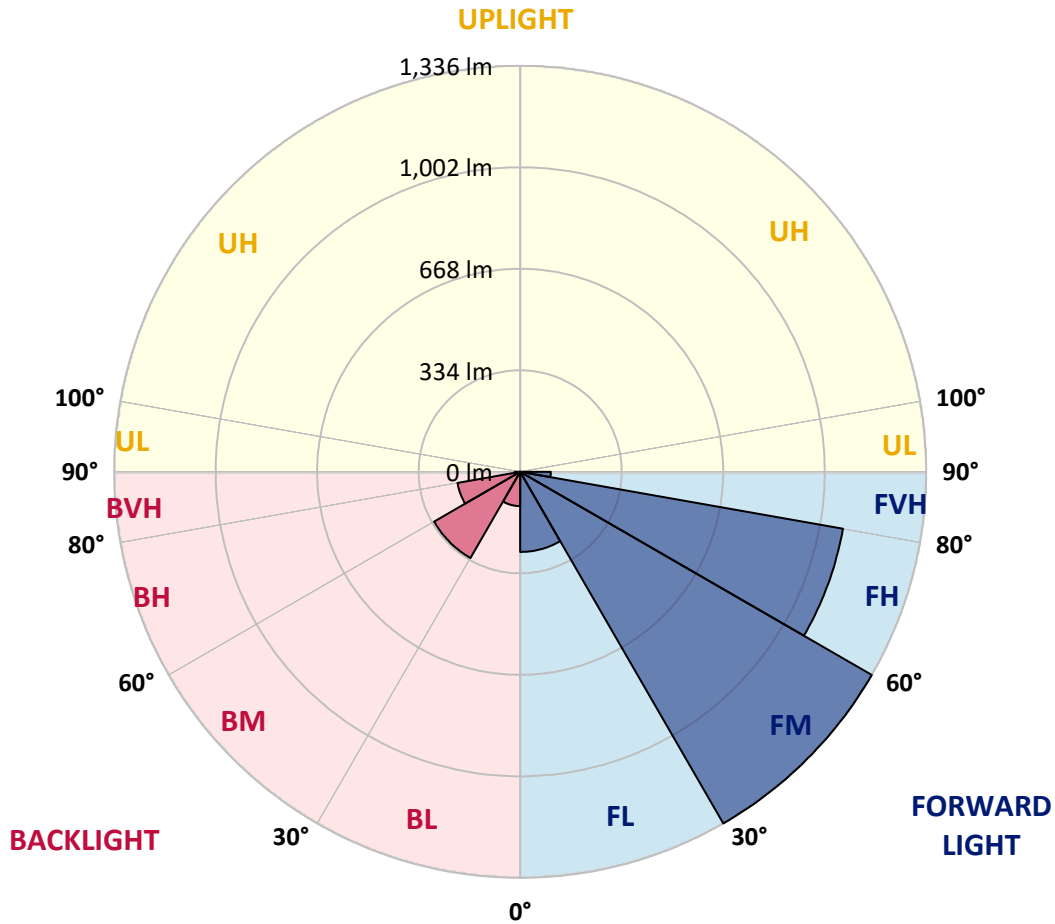


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 263.8 | 7.7 | | | |
| FM (30°-60°) | 1336.3 | 38.8 | | | |
| FH (60°-80°) | 1078.6 | 31.3 | | | G1/1800 |
| FVH (80°-90°) | 100.8 | 2.9 | | | G2/225 |
| BL (0°-30°) | 112.9 | 3.3 | B1/500 | | |
| BM (30°-60°) | 327.5 | 9.5 | B1/1000 | | |
| BH (60°-80°) | 209.5 | 6.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 17.8 | 0.5 | | | G1/100 |
| 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: P366854

CATALOG NUMBER: MSA-SA1B-830-U-SLR

CANDELA DISTRIBUTION (FULL):

| | 0° | 2.5° | 5° | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 25° |
|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| 0° | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 |
| 2.5° | 486.9 | 489.9 | 492.7 | 487.0 | 481.4 | 475.5 | 469.8 | 461.3 | 452.6 | 444.0 | 435.3 |
| 5° | 584.8 | 573.7 | 562.5 | 558.0 | 553.6 | 549.1 | 544.6 | 540.4 | 536.2 | 531.9 | 527.7 |
| 7.5° | 615.4 | 599.6 | 583.8 | 577.1 | 570.4 | 563.5 | 556.8 | 541.8 | 526.7 | 511.5 | 496.4 |
| 10° | 581.7 | 565.3 | 548.8 | 542.3 | 535.6 | 529.0 | 522.3 | 503.9 | 485.7 | 467.3 | 448.9 |
| 12.5° | 608.8 | 592.1 | 575.2 | 554.5 | 533.7 | 512.8 | 492.1 | 481.9 | 471.7 | 461.3 | 451.1 |
| 15° | 634.9 | 612.4 | 589.6 | 568.9 | 548.1 | 527.2 | 506.5 | 486.0 | 465.6 | 445.2 | 424.8 |
| 17.5° | 730.3 | 692.7 | 655.0 | 617.5 | 579.9 | 542.4 | 504.8 | 481.2 | 457.4 | 433.8 | 410.1 |
| 20° | 846.6 | 794.2 | 741.7 | 684.8 | 627.8 | 570.9 | 513.8 | 484.0 | 454.4 | 424.6 | 394.9 |
| 22.5° | 985.0 | 918.9 | 852.8 | 781.0 | 709.2 | 637.3 | 565.5 | 522.3 | 479.2 | 435.8 | 392.7 |
| 25° | 1094.9 | 1031.3 | 967.7 | 876.7 | 785.7 | 694.7 | 603.7 | 554.6 | 505.6 | 456.4 | 407.4 |
| 27.5° | 1201.6 | 1100.4 | 999.0 | 894.8 | 790.7 | 686.5 | 582.2 | 536.9 | 491.6 | 446.2 | 400.9 |
| 30° | 1291.8 | 1211.5 | 1131.2 | 995.2 | 859.1 | 723.0 | 586.9 | 531.2 | 475.5 | 419.8 | 364.1 |
| 32.5° | 1423.8 | 1309.2 | 1194.4 | 1052.6 | 910.7 | 768.8 | 626.9 | 555.6 | 484.4 | 413.1 | 341.8 |
| 35° | 1578.3 | 1459.1 | 1340.0 | 1164.5 | 989.1 | 813.6 | 638.1 | 562.7 | 487.0 | 411.6 | 336.0 |
| 37.5° | 1866.2 | 1656.2 | 1446.1 | 1254.5 | 1062.9 | 871.2 | 679.6 | 591.9 | 504.3 | 416.4 | 328.8 |
| 40° | 2025.0 | 1830.9 | 1636.8 | 1398.1 | 1159.3 | 920.4 | 681.6 | 591.9 | 502.1 | 412.4 | 322.6 |
| 42.5° | 2236.6 | 1991.2 | 1745.6 | 1487.4 | 1229.4 | 971.2 | 713.1 | 613.7 | 514.3 | 414.8 | 315.4 |
| 45° | 2365.6 | 2092.1 | 1818.3 | 1542.4 | 1266.6 | 990.7 | 714.8 | 613.9 | 513.0 | 412.1 | 311.2 |
| 47.5° | 2448.8 | 2186.1 | 1923.2 | 1626.3 | 1329.3 | 1032.1 | 735.2 | 628.1 | 520.8 | 413.8 | 306.5 |
| 50° | 2527.6 | 2267.4 | 2007.1 | 1698.7 | 1390.5 | 1082.2 | 773.8 | 656.9 | 539.9 | 422.8 | 305.8 |
| 52.5° | 2624.3 | 2384.7 | 2144.9 | 1814.2 | 1483.2 | 1152.4 | 821.5 | 694.2 | 566.9 | 439.5 | 312.2 |
| 55° | 2765.0 | 2528.9 | 2292.7 | 1937.6 | 1582.4 | 1227.4 | 872.2 | 730.8 | 589.6 | 448.2 | 306.8 |
| 57.5° | 2856.2 | 2616.8 | 2377.3 | 2015.3 | 1653.2 | 1291.0 | 928.9 | 772.3 | 615.7 | 458.9 | 302.3 |
| 60° | 2825.9 | 2578.9 | 2331.8 | 1986.7 | 1641.5 | 1296.3 | 951.2 | 782.0 | 613.0 | 443.9 | 274.7 |
| 62.5° | 2692.0 | 2429.5 | 2167.0 | 1857.8 | 1548.8 | 1239.6 | 930.4 | 758.4 | 586.6 | 414.6 | 242.6 |
| 65° | 2505.0 | 2233.6 | 1962.1 | 1683.2 | 1404.2 | 1125.3 | 846.4 | 690.3 | 534.1 | 378.0 | 221.7 |
| 67.5° | 2275.4 | 1992.5 | 1709.4 | 1462.5 | 1215.5 | 968.4 | 721.4 | 590.9 | 460.6 | 330.1 | 199.6 |
| 70° | 1987.5 | 1709.4 | 1431.4 | 1217.7 | 1004.0 | 790.4 | 576.7 | 478.5 | 380.5 | 282.3 | 184.0 |
| 72.5° | 1597.5 | 1357.6 | 1117.6 | 949.5 | 781.3 | 613.2 | 445.0 | 376.8 | 308.7 | 240.4 | 172.2 |
| 75° | 1136.2 | 995.2 | 854.1 | 723.3 | 592.5 | 461.4 | 330.6 | 286.4 | 242.3 | 198.1 | 153.9 |
| 77.5° | 807.4 | 724.3 | 641.1 | 538.6 | 436.0 | 333.5 | 230.9 | 205.0 | 179.2 | 153.3 | 127.3 |
| 80° | 597.0 | 527.5 | 458.1 | 380.8 | 303.5 | 226.2 | 148.9 | 136.2 | 123.6 | 110.9 | 98.2 |
| 82.5° | 393.0 | 361.7 | 330.3 | 269.0 | 207.8 | 146.6 | 85.3 | 80.6 | 76.0 | 71.3 | 66.6 |
| 85° | 176.0 | 185.9 | 195.6 | 158.1 | 120.5 | 83.0 | 45.3 | 43.2 | 41.0 | 38.8 | 36.6 |
| 87.5° | 16.9 | 24.9 | 33.0 | 28.3 | 23.4 | 18.7 | 13.9 | 13.7 | 13.7 | 13.6 | 13.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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 CATALOG NUMBER: MSA-SA1B-830-U-SLR

CANDELA DISTRIBUTION (continued):

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



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CANDELA DISTRIBUTION (continued):

| | 27.5° | 30° | 32.5° | 35° | 37.5° | 40° | 42.5° | 45° | 47.5° | 50° | 52.5° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 |
| 2.5° | 437.7 | 440.0 | 442.4 | 444.7 | 442.2 | 439.7 | 437.0 | 434.5 | 431.3 | 428.2 | 424.8 |
| 5° | 520.7 | 513.5 | 506.5 | 499.3 | 488.6 | 477.8 | 467.0 | 456.3 | 454.9 | 453.4 | 452.1 |
| 7.5° | 483.2 | 470.1 | 456.9 | 443.7 | 427.0 | 410.4 | 393.7 | 377.0 | 371.9 | 366.9 | 361.9 |
| 10° | 440.0 | 431.0 | 422.1 | 413.1 | 402.7 | 392.3 | 381.8 | 371.4 | 357.7 | 343.8 | 330.1 |
| 12.5° | 436.3 | 421.6 | 406.7 | 392.0 | 385.7 | 379.3 | 372.9 | 366.6 | 354.5 | 342.5 | 330.3 |
| 15° | 412.9 | 400.9 | 389.0 | 377.0 | 367.8 | 358.5 | 349.3 | 340.1 | 330.4 | 320.6 | 310.9 |
| 17.5° | 396.4 | 382.6 | 368.9 | 355.2 | 344.7 | 334.1 | 323.4 | 312.9 | 301.2 | 289.3 | 277.6 |
| 20° | 379.1 | 363.6 | 347.8 | 332.1 | 318.7 | 305.5 | 292.1 | 278.7 | 265.9 | 253.1 | 240.3 |
| 22.5° | 372.1 | 351.5 | 330.9 | 310.4 | 296.3 | 282.1 | 268.0 | 253.8 | 241.9 | 230.1 | 218.2 |
| 25° | 382.8 | 358.4 | 333.8 | 309.2 | 290.3 | 271.2 | 252.3 | 233.2 | 223.4 | 213.5 | 203.5 |
| 27.5° | 370.3 | 339.5 | 308.9 | 278.1 | 257.8 | 237.4 | 217.2 | 196.8 | 195.3 | 193.7 | 192.1 |
| 30° | 331.8 | 299.5 | 267.2 | 234.9 | 216.3 | 197.6 | 179.0 | 160.3 | 156.8 | 153.1 | 149.6 |
| 32.5° | 308.9 | 275.9 | 242.9 | 210.0 | 193.4 | 176.7 | 160.1 | 143.4 | 139.4 | 135.4 | 131.3 |
| 35° | 300.2 | 264.4 | 228.5 | 192.7 | 178.5 | 164.3 | 150.1 | 135.9 | 133.0 | 130.3 | 127.5 |
| 37.5° | 293.1 | 257.7 | 222.0 | 186.4 | 172.7 | 158.9 | 145.1 | 131.3 | 129.2 | 127.0 | 124.8 |
| 40° | 286.4 | 250.5 | 214.3 | 178.2 | 166.0 | 153.9 | 141.7 | 129.5 | 128.2 | 126.8 | 125.3 |
| 42.5° | 280.4 | 245.4 | 210.3 | 175.3 | 164.5 | 153.8 | 142.9 | 132.0 | 130.7 | 129.3 | 128.0 |
| 45° | 277.1 | 242.9 | 208.8 | 174.7 | 166.8 | 158.9 | 150.9 | 143.1 | 139.9 | 136.7 | 133.3 |
| 47.5° | 274.6 | 242.6 | 210.6 | 178.7 | 170.5 | 162.3 | 154.1 | 145.9 | 143.1 | 140.2 | 137.2 |
| 50° | 275.1 | 244.4 | 213.7 | 182.9 | 173.0 | 163.0 | 153.1 | 143.1 | 142.7 | 142.4 | 142.0 |
| 52.5° | 279.6 | 247.1 | 214.5 | 181.9 | 171.2 | 160.5 | 149.6 | 138.9 | 141.0 | 143.1 | 145.2 |
| 55° | 273.1 | 239.3 | 205.3 | 171.5 | 161.3 | 151.2 | 141.0 | 130.8 | 133.7 | 136.4 | 139.2 |
| 57.5° | 265.7 | 229.0 | 192.4 | 155.8 | 148.1 | 140.4 | 132.5 | 124.8 | 127.8 | 131.0 | 134.0 |
| 60° | 241.3 | 207.8 | 174.3 | 140.9 | 135.7 | 130.5 | 125.3 | 120.1 | 121.5 | 122.8 | 124.1 |
| 62.5° | 214.5 | 186.2 | 158.1 | 129.8 | 125.8 | 121.6 | 117.6 | 113.4 | 113.4 | 113.6 | 113.6 |
| 65° | 197.4 | 173.2 | 148.9 | 124.6 | 120.1 | 115.6 | 110.9 | 106.4 | 105.7 | 105.1 | 104.4 |
| 67.5° | 180.4 | 161.3 | 142.0 | 122.8 | 116.3 | 109.9 | 103.4 | 96.9 | 96.0 | 95.4 | 94.5 |
| 70° | 167.0 | 149.9 | 132.8 | 115.8 | 108.4 | 101.2 | 93.9 | 86.5 | 85.8 | 85.3 | 84.7 |
| 72.5° | 156.1 | 140.2 | 124.1 | 108.1 | 100.4 | 92.5 | 84.8 | 77.0 | 76.5 | 76.0 | 75.3 |
| 75° | 139.7 | 125.7 | 111.4 | 97.2 | 89.7 | 82.3 | 74.8 | 67.3 | 66.6 | 66.1 | 65.4 |
| 77.5° | 115.6 | 103.7 | 92.0 | 80.1 | 74.3 | 68.6 | 62.7 | 56.9 | 56.6 | 56.2 | 55.7 |
| 80° | 89.0 | 79.8 | 70.4 | 61.2 | 57.4 | 53.4 | 49.5 | 45.5 | 45.3 | 45.2 | 44.8 |
| 82.5° | 61.1 | 55.5 | 50.0 | 44.5 | 41.7 | 38.6 | 35.8 | 32.8 | 33.0 | 33.1 | 33.3 |
| 85° | 34.8 | 32.8 | 31.0 | 28.9 | 26.6 | 24.4 | 22.1 | 19.7 | 20.2 | 20.7 | 21.1 |
| 87.5° | 12.7 | 12.0 | 11.4 | 10.7 | 9.5 | 8.5 | 7.4 | 6.2 | 6.5 | 7.0 | 7.4 |
| 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: P366854
 CATALOG NUMBER: MSA-SA1B-830-U-SLR

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P366854
 CATALOG NUMBER: MSA-SA1B-830-U-SLR

CANDELA DISTRIBUTION (continued):

| | 55° | 57.5° | 60° | 62.5° | 65° | 67.5° | 70° | 72.5° | 75° | 77.5° | 80° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 |
| 2.5° | 421.6 | 416.6 | 411.6 | 406.6 | 401.5 | 391.2 | 381.0 | 370.6 | 360.2 | 366.6 | 373.1 |
| 5° | 450.6 | 442.0 | 433.3 | 424.8 | 416.1 | 411.3 | 406.4 | 401.5 | 396.7 | 399.2 | 401.9 |
| 7.5° | 356.9 | 351.9 | 346.7 | 341.7 | 336.5 | 334.3 | 332.3 | 330.1 | 327.9 | 334.1 | 340.3 |
| 10° | 316.2 | 309.2 | 302.2 | 295.0 | 287.9 | 283.8 | 279.6 | 275.4 | 271.2 | 272.9 | 274.6 |
| 12.5° | 318.2 | 307.9 | 297.5 | 287.1 | 276.7 | 270.5 | 264.4 | 258.2 | 252.0 | 253.5 | 255.0 |
| 15° | 301.0 | 290.3 | 279.6 | 268.9 | 258.2 | 251.0 | 243.6 | 236.4 | 229.0 | 226.5 | 223.9 |
| 17.5° | 265.7 | 254.0 | 242.3 | 230.6 | 218.8 | 214.0 | 209.1 | 204.3 | 199.4 | 196.8 | 194.1 |
| 20° | 227.4 | 216.5 | 205.6 | 194.8 | 183.9 | 180.5 | 177.2 | 173.7 | 170.3 | 168.7 | 166.8 |
| 22.5° | 206.3 | 199.6 | 192.7 | 186.1 | 179.2 | 175.3 | 171.7 | 167.8 | 164.0 | 162.1 | 160.1 |
| 25° | 193.6 | 194.9 | 196.4 | 197.8 | 199.1 | 197.4 | 195.6 | 193.9 | 192.1 | 192.7 | 193.2 |
| 27.5° | 190.6 | 193.4 | 196.4 | 199.3 | 202.1 | 203.6 | 205.1 | 206.6 | 208.1 | 208.6 | 209.1 |
| 30° | 145.9 | 147.4 | 148.7 | 150.2 | 151.6 | 155.8 | 160.0 | 164.0 | 168.1 | 174.7 | 181.4 |
| 32.5° | 127.3 | 126.8 | 126.3 | 125.7 | 125.1 | 126.2 | 127.2 | 128.0 | 129.0 | 131.3 | 133.8 |
| 35° | 124.6 | 123.5 | 122.1 | 121.0 | 119.6 | 120.1 | 120.6 | 121.1 | 121.6 | 123.5 | 125.3 |
| 37.5° | 122.6 | 122.1 | 121.8 | 121.3 | 120.8 | 122.0 | 123.0 | 124.1 | 125.1 | 126.7 | 128.2 |
| 40° | 124.0 | 123.8 | 123.6 | 123.3 | 123.1 | 123.8 | 124.5 | 125.1 | 125.8 | 127.8 | 129.8 |
| 42.5° | 126.7 | 126.7 | 126.5 | 126.5 | 126.3 | 127.0 | 127.5 | 128.2 | 128.7 | 129.8 | 131.0 |
| 45° | 130.2 | 129.8 | 129.7 | 129.3 | 129.0 | 128.8 | 128.8 | 128.7 | 128.5 | 129.2 | 130.0 |
| 47.5° | 134.4 | 133.2 | 131.8 | 130.7 | 129.3 | 129.0 | 128.5 | 128.2 | 127.7 | 128.0 | 128.3 |
| 50° | 141.7 | 138.5 | 135.5 | 132.3 | 129.2 | 128.3 | 127.5 | 126.7 | 125.8 | 125.7 | 125.7 |
| 52.5° | 147.2 | 142.5 | 137.9 | 133.2 | 128.5 | 127.0 | 125.5 | 124.0 | 122.5 | 122.1 | 122.0 |
| 55° | 141.9 | 138.4 | 135.0 | 131.5 | 128.0 | 125.8 | 123.5 | 121.3 | 119.0 | 118.5 | 118.0 |
| 57.5° | 137.0 | 134.9 | 132.7 | 130.5 | 128.3 | 126.2 | 123.8 | 121.6 | 119.3 | 118.1 | 117.0 |
| 60° | 125.5 | 125.5 | 125.7 | 125.7 | 125.7 | 123.3 | 121.0 | 118.6 | 116.3 | 115.1 | 114.1 |
| 62.5° | 113.6 | 115.4 | 117.1 | 119.0 | 120.6 | 117.5 | 114.1 | 110.9 | 107.6 | 106.7 | 106.1 |
| 65° | 103.7 | 104.2 | 104.9 | 105.4 | 105.9 | 103.4 | 100.9 | 98.4 | 95.9 | 95.4 | 94.7 |
| 67.5° | 93.7 | 93.5 | 93.4 | 93.0 | 92.9 | 91.4 | 89.7 | 88.2 | 86.5 | 85.8 | 85.2 |
| 70° | 84.0 | 83.8 | 83.7 | 83.3 | 83.2 | 81.8 | 80.5 | 79.1 | 77.8 | 77.3 | 76.8 |
| 72.5° | 74.8 | 74.6 | 74.3 | 74.1 | 73.8 | 72.6 | 71.6 | 70.4 | 69.3 | 68.6 | 67.9 |
| 75° | 64.7 | 64.4 | 64.1 | 63.7 | 63.4 | 62.4 | 61.4 | 60.2 | 59.2 | 58.6 | 57.9 |
| 77.5° | 55.4 | 54.9 | 54.4 | 53.7 | 53.2 | 52.4 | 51.4 | 50.5 | 49.5 | 48.7 | 48.0 |
| 80° | 44.7 | 44.3 | 44.0 | 43.5 | 43.2 | 42.3 | 41.5 | 40.5 | 39.7 | 38.6 | 37.8 |
| 82.5° | 33.5 | 33.3 | 33.0 | 32.8 | 32.5 | 31.6 | 30.8 | 29.9 | 29.1 | 28.1 | 27.1 |
| 85° | 21.6 | 21.4 | 21.2 | 21.1 | 20.9 | 20.2 | 19.7 | 19.1 | 18.4 | 17.4 | 16.6 |
| 87.5° | 7.7 | 7.4 | 7.2 | 6.9 | 6.5 | 6.4 | 6.0 | 5.9 | 5.5 | 5.0 | 4.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P366854
 CATALOG NUMBER: MSA-SA1B-830-U-SLR

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P366854
 CATALOG NUMBER: MSA-SA1B-830-U-SLR

CANDELA DISTRIBUTION (continued):

| | 82.5° | 85° | 87.5° | 90° | 92.5° | 95° | 97.5° | 100° | 102.5° | 105° | 107.5° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|--------|
| 0° | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 |
| 2.5° | 379.5 | 385.8 | 386.0 | 386.0 | 389.0 | 391.8 | 386.0 | 380.1 | 374.1 | 368.3 | 362.4 |
| 5° | 404.4 | 406.9 | 406.2 | 405.4 | 401.7 | 398.0 | 394.2 | 390.3 | 386.5 | 382.6 | 382.8 |
| 7.5° | 346.5 | 352.7 | 357.7 | 362.6 | 357.9 | 353.2 | 350.7 | 348.2 | 345.7 | 343.2 | 342.8 |
| 10° | 276.1 | 277.7 | 279.7 | 281.6 | 278.7 | 275.7 | 280.7 | 285.8 | 290.6 | 295.6 | 290.1 |
| 12.5° | 256.5 | 258.0 | 254.5 | 250.8 | 249.6 | 248.5 | 247.3 | 245.9 | 244.8 | 243.4 | 242.8 |
| 15° | 221.4 | 218.7 | 216.0 | 213.2 | 212.5 | 211.6 | 210.8 | 209.8 | 209.0 | 208.0 | 205.0 |
| 17.5° | 191.4 | 188.7 | 184.2 | 179.5 | 177.7 | 175.7 | 175.2 | 174.7 | 174.0 | 173.5 | 170.7 |
| 20° | 165.1 | 163.3 | 162.1 | 160.8 | 158.9 | 157.1 | 155.3 | 153.4 | 151.4 | 149.6 | 146.9 |
| 22.5° | 158.3 | 156.3 | 154.8 | 153.1 | 152.8 | 152.4 | 149.1 | 145.6 | 142.2 | 138.7 | 137.2 |
| 25° | 193.9 | 194.4 | 185.2 | 175.8 | 175.0 | 174.2 | 168.1 | 162.0 | 155.9 | 149.7 | 144.6 |
| 27.5° | 209.5 | 210.0 | 209.6 | 209.3 | 206.6 | 203.8 | 193.6 | 183.2 | 173.0 | 162.6 | 155.3 |
| 30° | 187.9 | 194.4 | 196.9 | 199.4 | 197.6 | 195.6 | 184.9 | 174.3 | 163.6 | 152.9 | 148.1 |
| 32.5° | 136.2 | 138.5 | 142.7 | 146.7 | 148.9 | 150.9 | 147.6 | 144.2 | 140.9 | 137.5 | 136.7 |
| 35° | 127.0 | 128.8 | 129.7 | 130.5 | 129.2 | 127.8 | 125.3 | 122.8 | 120.1 | 117.6 | 117.1 |
| 37.5° | 129.5 | 131.0 | 132.7 | 134.4 | 130.7 | 126.8 | 124.0 | 121.3 | 118.5 | 115.6 | 113.3 |
| 40° | 131.8 | 133.8 | 134.9 | 135.9 | 132.2 | 128.5 | 125.0 | 121.6 | 118.1 | 114.6 | 112.3 |
| 42.5° | 132.2 | 133.3 | 135.2 | 137.0 | 131.8 | 126.5 | 123.3 | 120.0 | 116.8 | 113.4 | 111.1 |
| 45° | 130.7 | 131.3 | 133.0 | 134.7 | 128.7 | 122.5 | 119.6 | 116.6 | 113.8 | 110.8 | 108.8 |
| 47.5° | 128.5 | 128.8 | 130.2 | 131.3 | 125.0 | 118.5 | 115.8 | 113.1 | 110.3 | 107.6 | 105.6 |
| 50° | 125.5 | 125.3 | 126.3 | 127.2 | 120.6 | 114.1 | 111.4 | 108.9 | 106.2 | 103.6 | 101.9 |
| 52.5° | 121.6 | 121.3 | 122.3 | 123.1 | 116.3 | 109.4 | 107.1 | 104.9 | 102.6 | 100.2 | 98.9 |
| 55° | 117.3 | 116.8 | 117.6 | 118.5 | 111.8 | 104.9 | 102.9 | 100.7 | 98.7 | 96.5 | 95.4 |
| 57.5° | 115.6 | 114.4 | 114.9 | 115.4 | 107.9 | 100.4 | 98.4 | 96.4 | 94.4 | 92.4 | 91.5 |
| 60° | 112.9 | 111.8 | 112.3 | 112.6 | 104.6 | 96.4 | 94.5 | 92.5 | 90.7 | 88.7 | 87.8 |
| 62.5° | 105.2 | 104.4 | 105.1 | 105.7 | 98.5 | 91.2 | 89.5 | 88.0 | 86.3 | 84.7 | 83.5 |
| 65° | 94.2 | 93.5 | 94.9 | 96.2 | 90.0 | 83.8 | 82.8 | 81.8 | 80.6 | 79.6 | 78.5 |
| 67.5° | 84.5 | 83.8 | 85.2 | 86.5 | 82.0 | 77.5 | 76.5 | 75.5 | 74.5 | 73.4 | 72.8 |
| 70° | 76.3 | 75.8 | 77.0 | 78.1 | 74.3 | 70.4 | 69.4 | 68.6 | 67.6 | 66.6 | 66.1 |
| 72.5° | 67.1 | 66.4 | 67.9 | 69.3 | 66.1 | 62.7 | 61.9 | 60.9 | 60.1 | 59.1 | 58.7 |
| 75° | 57.2 | 56.6 | 57.9 | 59.1 | 56.9 | 54.5 | 53.7 | 52.9 | 52.0 | 51.2 | 51.0 |
| 77.5° | 47.2 | 46.3 | 47.7 | 48.9 | 47.5 | 46.0 | 45.3 | 44.5 | 43.8 | 43.0 | 43.0 |
| 80° | 36.8 | 35.8 | 36.8 | 37.6 | 37.1 | 36.6 | 36.1 | 35.5 | 35.0 | 34.3 | 34.5 |
| 82.5° | 26.1 | 25.1 | 25.6 | 26.1 | 26.4 | 26.8 | 26.8 | 26.8 | 26.8 | 26.8 | 26.8 |
| 85° | 15.6 | 14.6 | 14.7 | 14.9 | 15.4 | 15.9 | 16.1 | 16.2 | 16.4 | 16.6 | 16.7 |
| 87.5° | 4.0 | 3.5 | 3.2 | 2.7 | 3.2 | 3.5 | 3.8 | 4.0 | 4.4 | 4.5 | 4.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P366854
 CATALOG NUMBER: MSA-SA1B-830-U-SLR

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P366854
 CATALOG NUMBER: MSA-SA1B-830-U-SLR

CANDELA DISTRIBUTION (continued):

| | 110° | 112.5° | 115° | 117.5° | 120° | 122.5° | 125° | 127.5° | 130° | 132.5° | 135° |
|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|
| 0° | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 |
| 2.5° | 356.5 | 350.5 | 344.7 | 348.3 | 351.9 | 355.5 | 359.1 | 359.2 | 359.2 | 359.4 | 359.4 |
| 5° | 383.1 | 383.3 | 383.5 | 380.0 | 376.6 | 373.1 | 369.6 | 367.8 | 365.9 | 363.9 | 362.1 |
| 7.5° | 342.3 | 342.0 | 341.5 | 338.1 | 334.8 | 331.4 | 328.1 | 320.1 | 311.9 | 303.8 | 295.6 |
| 10° | 284.4 | 278.9 | 273.2 | 271.9 | 270.7 | 269.4 | 268.0 | 265.9 | 263.9 | 261.7 | 259.5 |
| 12.5° | 242.1 | 241.4 | 240.8 | 237.2 | 233.7 | 230.1 | 226.5 | 226.5 | 226.5 | 226.5 | 226.5 |
| 15° | 201.8 | 198.8 | 195.6 | 193.9 | 192.1 | 190.4 | 188.6 | 187.7 | 186.9 | 186.1 | 185.2 |
| 17.5° | 167.6 | 164.8 | 161.8 | 161.5 | 161.1 | 160.8 | 160.5 | 159.6 | 158.8 | 157.9 | 157.1 |
| 20° | 144.2 | 141.5 | 138.9 | 139.9 | 140.9 | 141.7 | 142.7 | 141.9 | 141.0 | 140.0 | 139.2 |
| 22.5° | 135.5 | 134.0 | 132.3 | 131.5 | 130.7 | 129.7 | 128.8 | 128.8 | 129.0 | 129.0 | 129.0 |
| 25° | 139.5 | 134.4 | 129.2 | 126.7 | 124.1 | 121.5 | 119.0 | 118.0 | 117.1 | 116.1 | 115.1 |
| 27.5° | 147.9 | 140.4 | 133.0 | 128.7 | 124.3 | 120.0 | 115.6 | 113.8 | 111.8 | 109.9 | 107.9 |
| 30° | 143.1 | 138.2 | 133.2 | 128.2 | 123.1 | 118.1 | 113.1 | 110.8 | 108.4 | 105.9 | 103.6 |
| 32.5° | 135.9 | 134.9 | 134.0 | 129.3 | 124.6 | 119.8 | 115.1 | 114.1 | 113.3 | 112.3 | 111.3 |
| 35° | 116.4 | 115.9 | 115.3 | 114.1 | 112.9 | 111.8 | 110.6 | 109.3 | 107.9 | 106.6 | 105.2 |
| 37.5° | 111.1 | 108.8 | 106.4 | 105.9 | 105.4 | 104.9 | 104.4 | 103.9 | 103.4 | 102.7 | 102.2 |
| 40° | 109.9 | 107.6 | 105.2 | 104.4 | 103.6 | 102.6 | 101.7 | 101.9 | 102.2 | 102.4 | 102.6 |
| 42.5° | 108.6 | 106.2 | 103.7 | 103.1 | 102.4 | 101.7 | 101.1 | 101.2 | 101.6 | 101.7 | 101.9 |
| 45° | 106.9 | 104.9 | 102.9 | 101.7 | 100.7 | 99.6 | 98.4 | 99.4 | 100.4 | 101.2 | 102.2 |
| 47.5° | 103.6 | 101.4 | 99.4 | 98.7 | 98.0 | 97.2 | 96.5 | 97.5 | 98.5 | 99.4 | 100.4 |
| 50° | 100.1 | 98.4 | 96.5 | 96.4 | 96.2 | 95.9 | 95.7 | 96.4 | 97.0 | 97.7 | 98.4 |
| 52.5° | 97.4 | 96.0 | 94.5 | 94.5 | 94.4 | 94.4 | 94.2 | 94.9 | 95.5 | 96.0 | 96.7 |
| 55° | 94.4 | 93.2 | 92.0 | 92.2 | 92.5 | 92.7 | 92.9 | 93.5 | 94.4 | 95.0 | 95.7 |
| 57.5° | 90.5 | 89.7 | 88.7 | 89.3 | 89.8 | 90.5 | 91.0 | 91.5 | 92.2 | 92.7 | 93.2 |
| 60° | 86.8 | 86.0 | 85.0 | 85.7 | 86.5 | 87.2 | 87.8 | 88.3 | 88.8 | 89.3 | 89.8 |
| 62.5° | 82.3 | 81.0 | 79.8 | 80.8 | 81.6 | 82.7 | 83.5 | 83.8 | 84.3 | 84.7 | 85.0 |
| 65° | 77.5 | 76.3 | 75.1 | 75.8 | 76.5 | 77.0 | 77.6 | 78.1 | 78.6 | 79.1 | 79.6 |
| 67.5° | 71.9 | 71.3 | 70.4 | 70.9 | 71.4 | 71.9 | 72.4 | 72.6 | 72.6 | 72.8 | 72.8 |
| 70° | 65.4 | 64.9 | 64.2 | 64.6 | 65.1 | 65.4 | 65.8 | 65.8 | 65.8 | 65.6 | 65.6 |
| 72.5° | 58.6 | 58.2 | 57.9 | 58.1 | 58.4 | 58.6 | 58.7 | 58.6 | 58.4 | 58.2 | 58.1 |
| 75° | 50.9 | 50.7 | 50.5 | 50.7 | 51.0 | 51.2 | 51.4 | 51.2 | 50.9 | 50.7 | 50.4 |
| 77.5° | 43.2 | 43.2 | 43.2 | 43.2 | 43.3 | 43.3 | 43.3 | 43.0 | 42.7 | 42.3 | 42.0 |
| 80° | 34.6 | 34.8 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 34.6 | 34.3 | 33.8 | 33.5 |
| 82.5° | 26.8 | 26.8 | 26.8 | 26.8 | 26.9 | 26.9 | 26.9 | 26.1 | 25.4 | 24.6 | 23.8 |
| 85° | 16.7 | 16.9 | 16.9 | 17.1 | 17.2 | 17.2 | 17.4 | 16.2 | 15.2 | 14.1 | 12.9 |
| 87.5° | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.4 | 4.4 | 3.3 | 2.2 | 1.2 | 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: P366854
 CATALOG NUMBER: MSA-SA1B-830-U-SLR

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P366854

CATALOG NUMBER: MSA-SA1B-830-U-SLR

CANDELA DISTRIBUTION (continued):

| | 137.5° | 140° | 142.5° | 145° | 147.5° | 150° | 152.5° | 155° | 157.5° | 160° | 162.5° |
|--------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|
| 0° | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 |
| 2.5° | 360.4 | 361.4 | 362.2 | 363.2 | 363.4 | 363.6 | 363.6 | 363.7 | 360.2 | 356.7 | 353.0 |
| 5° | 364.6 | 366.9 | 369.4 | 371.8 | 371.3 | 370.8 | 370.3 | 369.8 | 368.8 | 367.9 | 366.9 |
| 7.5° | 293.8 | 292.1 | 290.3 | 288.4 | 290.0 | 291.5 | 293.0 | 294.5 | 295.1 | 295.8 | 296.3 |
| 10° | 255.3 | 251.1 | 247.0 | 242.8 | 240.4 | 237.9 | 235.6 | 233.1 | 232.7 | 232.6 | 232.2 |
| 12.5° | 222.2 | 217.7 | 213.3 | 208.8 | 207.5 | 206.0 | 204.6 | 203.1 | 204.5 | 205.8 | 207.0 |
| 15° | 183.4 | 181.7 | 179.9 | 178.0 | 179.5 | 181.0 | 182.5 | 184.0 | 185.4 | 186.6 | 187.9 |
| 17.5° | 156.3 | 155.6 | 154.8 | 153.9 | 155.3 | 156.8 | 158.1 | 159.4 | 162.5 | 165.5 | 168.5 |
| 20° | 138.5 | 138.0 | 137.4 | 136.7 | 136.2 | 135.5 | 135.0 | 134.4 | 138.7 | 142.9 | 147.2 |
| 22.5° | 128.0 | 127.0 | 126.0 | 125.0 | 125.1 | 125.3 | 125.3 | 125.5 | 129.0 | 132.7 | 136.2 |
| 25° | 114.8 | 114.4 | 114.1 | 113.8 | 114.8 | 115.8 | 116.6 | 117.6 | 120.8 | 124.0 | 127.0 |
| 27.5° | 108.1 | 108.3 | 108.4 | 108.6 | 109.9 | 111.4 | 112.8 | 114.1 | 116.3 | 118.5 | 120.6 |
| 30° | 104.4 | 105.4 | 106.2 | 107.1 | 107.6 | 108.1 | 108.6 | 109.1 | 111.3 | 113.3 | 115.4 |
| 32.5° | 109.9 | 108.6 | 107.1 | 105.7 | 106.4 | 107.2 | 107.9 | 108.6 | 110.6 | 112.6 | 114.6 |
| 35° | 104.7 | 104.1 | 103.6 | 102.9 | 103.7 | 104.6 | 105.2 | 106.1 | 107.9 | 109.6 | 111.4 |
| 37.5° | 102.1 | 101.9 | 101.7 | 101.6 | 102.1 | 102.6 | 102.9 | 103.4 | 105.1 | 106.7 | 108.3 |
| 40° | 101.9 | 101.1 | 100.4 | 99.6 | 100.1 | 100.6 | 100.9 | 101.4 | 103.4 | 105.4 | 107.4 |
| 42.5° | 100.9 | 99.9 | 98.7 | 97.7 | 98.2 | 98.9 | 99.4 | 99.9 | 102.1 | 104.1 | 106.2 |
| 45° | 100.7 | 99.2 | 97.5 | 96.0 | 96.7 | 97.4 | 98.0 | 98.7 | 100.4 | 102.1 | 103.6 |
| 47.5° | 98.9 | 97.4 | 95.9 | 94.4 | 94.7 | 95.0 | 95.2 | 95.5 | 97.0 | 98.4 | 99.9 |
| 50° | 97.4 | 96.2 | 95.2 | 94.0 | 93.5 | 93.2 | 92.7 | 92.2 | 93.4 | 94.5 | 95.7 |
| 52.5° | 95.5 | 94.4 | 93.0 | 91.9 | 91.2 | 90.5 | 89.8 | 89.2 | 90.2 | 91.0 | 92.0 |
| 55° | 94.4 | 92.9 | 91.5 | 90.0 | 89.2 | 88.3 | 87.5 | 86.7 | 87.3 | 87.8 | 88.5 |
| 57.5° | 91.9 | 90.5 | 89.0 | 87.7 | 86.7 | 85.7 | 84.5 | 83.5 | 83.8 | 84.2 | 84.5 |
| 60° | 88.5 | 87.0 | 85.7 | 84.2 | 83.0 | 81.8 | 80.5 | 79.3 | 79.5 | 79.8 | 80.0 |
| 62.5° | 83.7 | 82.3 | 80.8 | 79.5 | 78.1 | 77.0 | 75.6 | 74.3 | 74.6 | 74.8 | 75.1 |
| 65° | 78.3 | 76.8 | 75.5 | 74.0 | 72.8 | 71.6 | 70.3 | 69.1 | 69.4 | 69.8 | 69.9 |
| 67.5° | 71.8 | 70.6 | 69.6 | 68.4 | 67.4 | 66.3 | 65.3 | 64.1 | 64.2 | 64.4 | 64.6 |
| 70° | 64.7 | 63.7 | 62.9 | 61.9 | 61.1 | 60.2 | 59.4 | 58.6 | 58.6 | 58.7 | 58.7 |
| 72.5° | 57.2 | 56.4 | 55.5 | 54.7 | 53.9 | 53.2 | 52.4 | 51.5 | 51.9 | 52.2 | 52.4 |
| 75° | 49.5 | 48.9 | 48.0 | 47.2 | 46.5 | 45.8 | 45.0 | 44.3 | 44.7 | 45.0 | 45.2 |
| 77.5° | 41.5 | 41.0 | 40.3 | 39.8 | 39.2 | 38.5 | 37.6 | 37.0 | 37.3 | 37.6 | 37.8 |
| 80° | 33.1 | 32.8 | 32.3 | 32.0 | 31.3 | 30.6 | 29.9 | 29.3 | 29.4 | 29.4 | 29.6 |
| 82.5° | 23.9 | 24.1 | 24.1 | 24.3 | 23.8 | 23.1 | 22.6 | 21.9 | 21.9 | 21.9 | 21.8 |
| 85° | 13.4 | 14.1 | 14.6 | 15.1 | 14.6 | 14.1 | 13.6 | 13.1 | 12.9 | 12.9 | 12.7 |
| 87.5° | 0.5 | 0.8 | 1.3 | 1.7 | 1.5 | 1.3 | 1.0 | 0.8 | 1.0 | 1.2 | 1.2 |
| 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: P366854
 CATALOG NUMBER: MSA-SA1B-830-U-SLR

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P366854
 CATALOG NUMBER: MSA-SA1B-830-U-SLR

CANDELA DISTRIBUTION (continued):

| | 165° | 167.5° | 170° | 172.5° | 175° | 177.5° | 180° | 182.5° | 185° | 187.5° | 190° |
|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|
| 0° | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 |
| 2.5° | 349.5 | 352.4 | 355.2 | 358.0 | 360.9 | 365.2 | 369.6 | 374.1 | 378.6 | 376.1 | 373.4 |
| 5° | 365.9 | 367.6 | 369.4 | 371.1 | 372.8 | 377.6 | 382.3 | 388.2 | 393.9 | 393.2 | 392.3 |
| 7.5° | 297.0 | 299.3 | 301.7 | 303.8 | 306.2 | 313.5 | 320.9 | 327.1 | 333.3 | 332.4 | 331.4 |
| 10° | 231.9 | 236.7 | 241.8 | 246.6 | 251.5 | 257.5 | 263.3 | 268.5 | 273.7 | 282.4 | 291.0 |
| 12.5° | 208.3 | 215.8 | 223.4 | 230.9 | 238.4 | 242.8 | 247.0 | 253.6 | 260.3 | 265.0 | 269.9 |
| 15° | 189.1 | 196.1 | 203.1 | 210.1 | 217.2 | 217.5 | 217.8 | 224.9 | 231.9 | 235.9 | 239.8 |
| 17.5° | 171.5 | 175.3 | 179.2 | 182.9 | 186.7 | 185.4 | 184.0 | 187.4 | 190.6 | 192.2 | 194.1 |
| 20° | 151.4 | 154.1 | 156.8 | 159.4 | 162.1 | 164.0 | 165.6 | 167.6 | 169.5 | 167.8 | 166.0 |
| 22.5° | 139.7 | 143.7 | 147.9 | 151.9 | 155.9 | 157.1 | 158.1 | 156.9 | 155.8 | 155.3 | 154.8 |
| 25° | 130.2 | 135.0 | 140.0 | 144.9 | 149.7 | 152.1 | 154.4 | 155.4 | 156.3 | 154.4 | 152.6 |
| 27.5° | 122.8 | 128.7 | 134.4 | 140.2 | 145.9 | 150.1 | 154.3 | 155.4 | 156.4 | 155.1 | 153.6 |
| 30° | 117.5 | 123.8 | 130.2 | 136.5 | 142.9 | 149.2 | 155.4 | 161.0 | 166.3 | 165.8 | 165.3 |
| 32.5° | 116.6 | 121.0 | 125.3 | 129.7 | 134.0 | 138.0 | 141.9 | 142.2 | 142.4 | 141.0 | 139.5 |
| 35° | 113.1 | 115.9 | 118.8 | 121.6 | 124.5 | 127.0 | 129.3 | 129.0 | 128.7 | 127.3 | 126.0 |
| 37.5° | 109.9 | 112.8 | 115.8 | 118.6 | 121.5 | 125.8 | 130.0 | 129.2 | 128.2 | 126.8 | 125.5 |
| 40° | 109.4 | 112.6 | 115.8 | 118.8 | 122.0 | 126.0 | 130.0 | 129.2 | 128.3 | 126.7 | 125.0 |
| 42.5° | 108.3 | 111.4 | 114.4 | 117.6 | 120.6 | 125.5 | 130.2 | 128.7 | 127.0 | 125.7 | 124.3 |
| 45° | 105.2 | 108.1 | 110.9 | 113.8 | 116.6 | 121.8 | 127.0 | 125.1 | 123.3 | 122.8 | 122.1 |
| 47.5° | 101.2 | 104.1 | 106.9 | 109.8 | 112.6 | 117.8 | 122.8 | 121.3 | 119.6 | 119.5 | 119.1 |
| 50° | 96.9 | 99.6 | 102.4 | 105.1 | 107.7 | 112.9 | 118.0 | 116.6 | 115.3 | 115.4 | 115.4 |
| 52.5° | 92.9 | 95.4 | 97.7 | 100.2 | 102.6 | 107.7 | 112.8 | 111.8 | 110.6 | 110.9 | 111.1 |
| 55° | 89.0 | 91.0 | 93.0 | 95.0 | 97.0 | 102.1 | 107.1 | 105.6 | 104.1 | 104.6 | 105.1 |
| 57.5° | 84.8 | 86.5 | 88.2 | 89.7 | 91.4 | 96.4 | 101.2 | 99.6 | 97.7 | 98.5 | 99.2 |
| 60° | 80.1 | 81.6 | 83.2 | 84.5 | 86.0 | 90.5 | 94.9 | 93.4 | 91.7 | 92.9 | 93.9 |
| 62.5° | 75.3 | 76.5 | 77.6 | 78.8 | 80.0 | 84.2 | 88.3 | 87.2 | 86.0 | 87.3 | 88.5 |
| 65° | 70.3 | 71.1 | 72.1 | 72.9 | 73.8 | 77.8 | 81.6 | 80.8 | 80.0 | 81.1 | 82.3 |
| 67.5° | 64.7 | 65.4 | 66.3 | 66.9 | 67.6 | 71.3 | 75.0 | 74.1 | 73.1 | 74.1 | 75.0 |
| 70° | 58.7 | 59.4 | 59.9 | 60.6 | 61.1 | 64.4 | 67.8 | 66.6 | 65.3 | 66.3 | 67.1 |
| 72.5° | 52.7 | 53.0 | 53.5 | 53.9 | 54.2 | 56.7 | 59.2 | 58.2 | 57.2 | 58.2 | 59.1 |
| 75° | 45.5 | 45.8 | 46.2 | 46.5 | 46.8 | 49.0 | 51.0 | 49.9 | 48.5 | 49.5 | 50.5 |
| 77.5° | 38.1 | 38.3 | 38.6 | 38.8 | 39.0 | 40.5 | 41.8 | 40.7 | 39.3 | 40.5 | 41.7 |
| 80° | 29.6 | 29.8 | 29.9 | 29.9 | 30.1 | 30.6 | 31.1 | 30.3 | 29.3 | 30.8 | 32.3 |
| 82.5° | 21.8 | 21.6 | 21.6 | 21.4 | 21.2 | 21.2 | 21.1 | 20.6 | 19.9 | 21.2 | 22.6 |
| 85° | 12.5 | 12.4 | 12.0 | 11.9 | 11.5 | 11.0 | 10.5 | 10.4 | 10.2 | 11.4 | 12.5 |
| 87.5° | 1.3 | 1.2 | 0.8 | 0.7 | 0.3 | 0.2 | 0.0 | 0.0 | 0.0 | 0.7 | 1.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P366854
 CATALOG NUMBER: MSA-SA1B-830-U-SLR

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P366854
 CATALOG NUMBER: MSA-SA1B-830-U-SLR

CANDELA DISTRIBUTION (continued):

| | 192.5° | 195° | 197.5° | 200° | 202.5° | 205° | 207.5° | 210° | 212.5° | 215° | 217.5° |
|--------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|
| 0° | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 |
| 2.5° | 370.9 | 368.3 | 365.7 | 363.2 | 360.7 | 358.2 | 362.9 | 367.6 | 372.3 | 377.0 | 381.1 |
| 5° | 391.7 | 390.8 | 388.7 | 386.7 | 384.5 | 382.3 | 383.5 | 384.8 | 386.0 | 387.2 | 389.7 |
| 7.5° | 330.6 | 329.6 | 334.3 | 338.8 | 343.5 | 348.0 | 349.2 | 350.2 | 351.4 | 352.4 | 351.7 |
| 10° | 299.7 | 308.2 | 310.4 | 312.4 | 314.5 | 316.6 | 319.9 | 323.2 | 326.4 | 329.8 | 331.6 |
| 12.5° | 274.6 | 279.2 | 286.9 | 294.8 | 302.5 | 310.2 | 315.2 | 320.2 | 325.3 | 330.3 | 340.6 |
| 15° | 243.8 | 247.6 | 253.5 | 259.3 | 265.2 | 271.0 | 278.2 | 285.6 | 292.8 | 300.0 | 311.4 |
| 17.5° | 195.8 | 197.4 | 201.8 | 206.1 | 210.3 | 214.7 | 224.4 | 233.9 | 243.6 | 253.1 | 266.2 |
| 20° | 164.3 | 162.5 | 162.5 | 162.6 | 162.6 | 162.6 | 172.3 | 181.9 | 191.6 | 201.1 | 218.3 |
| 22.5° | 154.1 | 153.6 | 151.8 | 149.7 | 147.9 | 145.9 | 150.9 | 156.1 | 161.1 | 166.1 | 180.2 |
| 25° | 150.6 | 148.7 | 146.4 | 144.1 | 141.7 | 139.4 | 142.5 | 145.7 | 148.9 | 152.1 | 163.1 |
| 27.5° | 152.3 | 150.7 | 151.9 | 152.9 | 154.1 | 155.1 | 156.1 | 157.1 | 158.1 | 159.1 | 163.0 |
| 30° | 164.8 | 164.3 | 166.1 | 167.8 | 169.7 | 171.3 | 169.0 | 166.8 | 164.5 | 162.1 | 163.5 |
| 32.5° | 138.2 | 136.7 | 136.0 | 135.4 | 134.7 | 134.0 | 133.8 | 133.7 | 133.3 | 133.2 | 136.2 |
| 35° | 124.6 | 123.3 | 122.3 | 121.3 | 120.1 | 119.1 | 119.6 | 120.0 | 120.5 | 120.8 | 124.1 |
| 37.5° | 124.1 | 122.8 | 121.6 | 120.5 | 119.1 | 118.0 | 118.5 | 119.1 | 119.6 | 120.1 | 122.6 |
| 40° | 123.3 | 121.6 | 121.0 | 120.3 | 119.6 | 119.0 | 119.3 | 119.6 | 119.8 | 120.1 | 122.0 |
| 42.5° | 122.8 | 121.5 | 121.1 | 120.8 | 120.5 | 120.1 | 120.5 | 120.8 | 121.0 | 121.3 | 123.5 |
| 45° | 121.6 | 121.0 | 121.3 | 121.6 | 122.0 | 122.3 | 122.3 | 122.3 | 122.3 | 122.3 | 124.6 |
| 47.5° | 119.0 | 118.6 | 119.6 | 120.6 | 121.6 | 122.6 | 124.3 | 126.0 | 127.5 | 129.2 | 129.7 |
| 50° | 115.6 | 115.6 | 117.3 | 119.0 | 120.5 | 122.1 | 126.2 | 130.0 | 134.0 | 137.9 | 135.4 |
| 52.5° | 111.4 | 111.6 | 114.1 | 116.4 | 119.0 | 121.3 | 125.0 | 128.7 | 132.2 | 135.9 | 132.2 |
| 55° | 105.4 | 105.9 | 109.1 | 112.1 | 115.3 | 118.3 | 121.1 | 124.0 | 126.8 | 129.7 | 125.8 |
| 57.5° | 100.1 | 100.7 | 104.1 | 107.2 | 110.6 | 113.8 | 115.4 | 117.3 | 119.0 | 120.6 | 118.1 |
| 60° | 95.0 | 96.0 | 100.4 | 104.7 | 108.9 | 113.3 | 111.9 | 110.6 | 109.1 | 107.7 | 107.6 |
| 62.5° | 89.8 | 91.0 | 95.0 | 99.0 | 102.9 | 106.9 | 104.9 | 102.9 | 100.7 | 98.7 | 99.6 |
| 65° | 83.3 | 84.5 | 86.3 | 88.2 | 89.8 | 91.7 | 91.5 | 91.5 | 91.4 | 91.2 | 92.9 |
| 67.5° | 76.0 | 76.8 | 78.0 | 79.0 | 80.1 | 81.1 | 81.8 | 82.7 | 83.3 | 84.0 | 86.0 |
| 70° | 68.1 | 68.9 | 70.1 | 71.1 | 72.3 | 73.3 | 74.1 | 75.0 | 75.6 | 76.5 | 78.5 |
| 72.5° | 60.1 | 60.9 | 62.1 | 63.2 | 64.2 | 65.4 | 66.1 | 66.8 | 67.3 | 67.9 | 69.6 |
| 75° | 51.5 | 52.5 | 53.7 | 54.7 | 55.9 | 56.9 | 57.4 | 57.9 | 58.4 | 58.9 | 60.4 |
| 77.5° | 42.8 | 44.0 | 45.2 | 46.3 | 47.5 | 48.7 | 48.9 | 49.0 | 49.2 | 49.4 | 50.7 |
| 80° | 33.6 | 35.1 | 36.3 | 37.5 | 38.6 | 39.8 | 39.8 | 39.8 | 39.8 | 39.8 | 40.5 |
| 82.5° | 23.9 | 25.3 | 26.6 | 27.8 | 29.1 | 30.3 | 30.3 | 30.1 | 30.1 | 29.9 | 29.9 |
| 85° | 13.7 | 14.9 | 15.7 | 16.7 | 17.6 | 18.4 | 18.4 | 18.4 | 18.2 | 18.2 | 17.9 |
| 87.5° | 2.2 | 2.8 | 3.2 | 3.7 | 4.0 | 4.4 | 4.2 | 4.2 | 4.0 | 3.8 | 3.3 |
| 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: P366854
 CATALOG NUMBER: MSA-SA1B-830-U-SLR

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P366854
 CATALOG NUMBER: MSA-SA1B-830-U-SLR

CANDELA DISTRIBUTION (continued):

| | 220° | 222.5° | 225° | 227.5° | 230° | 232.5° | 235° | 237.5° | 240° | 242.5° | 245° |
|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|
| 0° | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 |
| 2.5° | 385.3 | 389.5 | 393.7 | 393.0 | 392.3 | 391.7 | 391.0 | 393.5 | 395.9 | 398.4 | 400.7 |
| 5° | 392.0 | 394.5 | 396.9 | 398.7 | 400.5 | 402.4 | 404.2 | 412.8 | 421.1 | 429.7 | 438.0 |
| 7.5° | 351.0 | 350.2 | 349.5 | 357.4 | 365.4 | 373.3 | 381.1 | 392.0 | 402.9 | 413.8 | 424.6 |
| 10° | 333.5 | 335.3 | 337.1 | 340.3 | 343.7 | 346.8 | 350.0 | 360.7 | 371.4 | 382.1 | 392.8 |
| 12.5° | 350.9 | 361.2 | 371.4 | 373.9 | 376.6 | 379.1 | 381.6 | 383.8 | 386.0 | 388.0 | 390.2 |
| 15° | 322.7 | 334.1 | 345.5 | 352.0 | 358.5 | 364.9 | 371.4 | 387.8 | 404.1 | 420.5 | 436.7 |
| 17.5° | 279.1 | 292.1 | 305.0 | 321.1 | 337.1 | 353.2 | 369.3 | 384.3 | 399.4 | 414.3 | 429.3 |
| 20° | 235.6 | 252.6 | 269.9 | 287.4 | 304.8 | 322.4 | 339.8 | 354.5 | 369.3 | 383.8 | 398.5 |
| 22.5° | 194.1 | 208.1 | 222.0 | 243.4 | 264.7 | 286.1 | 307.4 | 334.8 | 362.1 | 389.5 | 416.8 |
| 25° | 174.0 | 185.0 | 195.9 | 218.0 | 240.1 | 262.0 | 284.1 | 319.7 | 355.2 | 390.8 | 426.3 |
| 27.5° | 167.0 | 170.8 | 174.7 | 194.8 | 214.7 | 234.7 | 254.6 | 293.1 | 331.6 | 369.9 | 408.4 |
| 30° | 164.8 | 166.1 | 167.5 | 183.2 | 198.9 | 214.7 | 230.4 | 268.4 | 306.5 | 344.5 | 382.5 |
| 32.5° | 139.0 | 142.0 | 144.9 | 160.3 | 175.5 | 190.9 | 206.1 | 244.4 | 282.6 | 320.9 | 359.1 |
| 35° | 127.5 | 130.8 | 134.2 | 149.2 | 164.3 | 179.2 | 194.2 | 234.6 | 275.1 | 315.4 | 355.7 |
| 37.5° | 125.1 | 127.7 | 130.2 | 147.2 | 164.3 | 181.4 | 198.4 | 239.3 | 280.1 | 320.9 | 361.7 |
| 40° | 124.0 | 125.8 | 127.7 | 144.2 | 161.0 | 177.5 | 194.1 | 236.9 | 279.6 | 322.4 | 365.1 |
| 42.5° | 125.5 | 127.7 | 129.7 | 144.7 | 159.6 | 174.7 | 189.6 | 233.9 | 278.1 | 322.4 | 366.6 |
| 45° | 126.8 | 129.2 | 131.3 | 145.4 | 159.4 | 173.5 | 187.6 | 234.9 | 282.1 | 329.4 | 376.6 |
| 47.5° | 130.0 | 130.5 | 130.8 | 143.1 | 155.1 | 167.3 | 179.4 | 227.5 | 275.7 | 323.7 | 371.9 |
| 50° | 132.7 | 130.2 | 127.5 | 140.2 | 152.8 | 165.5 | 178.0 | 223.7 | 269.4 | 314.9 | 360.6 |
| 52.5° | 128.5 | 124.6 | 121.0 | 134.7 | 148.4 | 162.0 | 175.7 | 221.4 | 267.2 | 312.9 | 358.5 |
| 55° | 122.1 | 118.3 | 114.4 | 128.3 | 142.2 | 156.1 | 170.0 | 215.5 | 261.2 | 306.7 | 352.2 |
| 57.5° | 115.8 | 113.3 | 110.8 | 122.1 | 133.7 | 145.1 | 156.4 | 205.8 | 255.0 | 304.3 | 353.5 |
| 60° | 107.4 | 107.1 | 106.9 | 115.8 | 124.8 | 133.7 | 142.5 | 190.9 | 239.1 | 287.4 | 335.6 |
| 62.5° | 100.2 | 101.1 | 101.7 | 108.9 | 116.1 | 123.1 | 130.3 | 177.0 | 223.9 | 270.5 | 317.2 |
| 65° | 94.7 | 96.4 | 98.0 | 106.2 | 114.4 | 122.5 | 130.7 | 169.8 | 209.0 | 248.1 | 287.3 |
| 67.5° | 88.0 | 90.0 | 92.0 | 102.7 | 113.4 | 124.1 | 134.9 | 167.1 | 199.4 | 231.7 | 264.0 |
| 70° | 80.3 | 82.3 | 84.2 | 97.9 | 111.4 | 125.1 | 138.7 | 167.3 | 196.1 | 224.7 | 253.3 |
| 72.5° | 71.3 | 72.9 | 74.6 | 89.3 | 104.1 | 118.8 | 133.5 | 157.8 | 182.0 | 206.1 | 230.4 |
| 75° | 62.1 | 63.6 | 65.1 | 77.8 | 90.5 | 103.2 | 115.9 | 134.7 | 153.3 | 172.0 | 190.6 |
| 77.5° | 51.9 | 53.2 | 54.4 | 62.9 | 71.4 | 80.0 | 88.5 | 102.9 | 117.1 | 131.5 | 145.7 |
| 80° | 41.2 | 41.8 | 42.5 | 47.5 | 52.4 | 57.4 | 62.2 | 71.8 | 81.3 | 90.7 | 100.2 |
| 82.5° | 30.1 | 30.1 | 30.1 | 33.3 | 36.6 | 39.8 | 43.0 | 47.9 | 52.5 | 57.4 | 62.1 |
| 85° | 17.6 | 17.1 | 16.7 | 18.9 | 21.1 | 23.3 | 25.4 | 27.4 | 29.4 | 31.5 | 33.5 |
| 87.5° | 2.8 | 2.2 | 1.7 | 3.0 | 4.4 | 5.7 | 7.0 | 7.7 | 8.5 | 9.2 | 9.9 |
| 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: P366854
 CATALOG NUMBER: MSA-SA1B-830-U-SLR

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P366854

CATALOG NUMBER: MSA-SA1B-830-U-SLR

CANDELA DISTRIBUTION (continued):

| | 247.5° | 250° | 252.5° | 255° | 257.5° | 260° | 262.5° | 265° | 267.5° | 270° | 272.5° |
|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 |
| 2.5° | 395.0 | 389.5 | 383.8 | 378.1 | 386.5 | 394.9 | 403.2 | 411.6 | 433.8 | 447.1 | 447.9 |
| 5° | 445.0 | 452.1 | 459.1 | 466.1 | 473.2 | 480.2 | 487.0 | 494.1 | 530.2 | 552.5 | 556.6 |
| 7.5° | 436.2 | 447.9 | 459.4 | 471.0 | 490.9 | 510.8 | 530.7 | 550.6 | 581.2 | 603.3 | 617.9 |
| 10° | 407.2 | 421.6 | 436.0 | 450.4 | 474.0 | 497.8 | 521.3 | 544.9 | 577.4 | 606.5 | 620.4 |
| 12.5° | 413.1 | 436.0 | 458.8 | 481.7 | 502.1 | 522.7 | 543.1 | 563.5 | 585.9 | 597.0 | 622.2 |
| 15° | 452.6 | 468.5 | 484.4 | 500.3 | 531.0 | 561.7 | 592.5 | 623.1 | 635.8 | 661.0 | 683.8 |
| 17.5° | 458.6 | 487.7 | 517.0 | 546.1 | 583.8 | 621.4 | 659.0 | 696.7 | 720.3 | 752.9 | 780.3 |
| 20° | 439.9 | 481.0 | 522.3 | 563.5 | 612.0 | 660.7 | 709.2 | 757.8 | 787.7 | 815.1 | 857.6 |
| 22.5° | 462.3 | 507.8 | 553.1 | 598.6 | 663.1 | 727.3 | 791.7 | 856.0 | 918.5 | 979.8 | 1008.6 |
| 25° | 487.0 | 547.9 | 608.7 | 669.4 | 749.9 | 830.2 | 910.7 | 991.0 | 1071.5 | 1128.9 | 1162.0 |
| 27.5° | 469.6 | 530.7 | 591.9 | 653.0 | 752.6 | 852.3 | 951.8 | 1051.4 | 1137.6 | 1206.7 | 1235.1 |
| 30° | 457.4 | 532.4 | 607.3 | 682.3 | 799.1 | 915.9 | 1032.6 | 1149.4 | 1229.1 | 1306.2 | 1348.0 |
| 32.5° | 455.3 | 551.5 | 647.5 | 743.7 | 879.7 | 1015.6 | 1151.6 | 1287.5 | 1340.3 | 1408.8 | 1465.1 |
| 35° | 461.3 | 567.0 | 672.6 | 778.2 | 934.1 | 1090.0 | 1245.8 | 1401.7 | 1476.9 | 1544.6 | 1594.0 |
| 37.5° | 479.7 | 597.6 | 715.4 | 833.4 | 1021.3 | 1209.3 | 1397.2 | 1585.1 | 1711.1 | 1835.1 | 1857.2 |
| 40° | 490.1 | 615.2 | 740.2 | 865.2 | 1083.7 | 1302.2 | 1520.7 | 1739.2 | 1884.1 | 2020.1 | 2029.3 |
| 42.5° | 502.3 | 638.0 | 773.5 | 909.2 | 1151.4 | 1393.9 | 1636.1 | 1878.4 | 2057.8 | 2204.0 | 2208.3 |
| 45° | 516.3 | 655.9 | 795.6 | 935.1 | 1188.1 | 1440.9 | 1693.9 | 1946.7 | 2163.5 | 2341.2 | 2297.9 |
| 47.5° | 521.8 | 671.9 | 821.8 | 971.7 | 1241.5 | 1511.0 | 1780.7 | 2050.2 | 2244.8 | 2406.4 | 2365.0 |
| 50° | 524.0 | 687.7 | 851.1 | 1014.6 | 1294.0 | 1573.6 | 1853.0 | 2132.4 | 2330.3 | 2487.9 | 2424.3 |
| 52.5° | 537.6 | 716.6 | 895.6 | 1074.6 | 1365.8 | 1656.9 | 1948.0 | 2239.1 | 2433.9 | 2585.3 | 2506.3 |
| 55° | 555.8 | 759.4 | 962.9 | 1166.5 | 1467.8 | 1769.0 | 2070.3 | 2371.5 | 2566.9 | 2707.8 | 2609.9 |
| 57.5° | 572.7 | 792.1 | 1011.2 | 1230.4 | 1542.6 | 1855.0 | 2167.2 | 2479.4 | 2677.3 | 2816.7 | 2721.8 |
| 60° | 564.5 | 793.4 | 1022.3 | 1251.2 | 1558.0 | 1864.7 | 2171.5 | 2478.2 | 2702.9 | 2870.1 | 2821.5 |
| 62.5° | 539.7 | 762.3 | 984.6 | 1207.2 | 1498.4 | 1789.6 | 2080.9 | 2372.0 | 2635.0 | 2849.3 | 2847.1 |
| 65° | 492.1 | 696.9 | 901.5 | 1106.3 | 1375.8 | 1645.5 | 1915.1 | 2184.6 | 2494.6 | 2755.0 | 2771.9 |
| 67.5° | 434.0 | 604.0 | 774.0 | 944.0 | 1197.8 | 1451.6 | 1705.4 | 1959.2 | 2290.7 | 2577.9 | 2592.5 |
| 70° | 377.8 | 502.4 | 626.9 | 751.4 | 974.3 | 1197.1 | 1419.8 | 1642.7 | 1977.5 | 2268.1 | 2281.5 |
| 72.5° | 311.9 | 393.4 | 474.7 | 556.1 | 736.7 | 917.2 | 1097.6 | 1278.1 | 1572.1 | 1795.6 | 1871.0 |
| 75° | 238.9 | 287.3 | 335.6 | 384.0 | 530.0 | 676.1 | 822.0 | 968.1 | 1163.5 | 1328.5 | 1413.5 |
| 77.5° | 170.8 | 195.9 | 221.0 | 246.1 | 370.3 | 494.4 | 618.4 | 742.5 | 845.3 | 938.8 | 996.2 |
| 80° | 112.1 | 123.8 | 135.7 | 147.4 | 250.6 | 353.9 | 456.9 | 560.2 | 622.7 | 672.9 | 701.9 |
| 82.5° | 67.9 | 73.8 | 79.5 | 85.3 | 169.0 | 252.6 | 336.1 | 419.8 | 455.6 | 479.5 | 505.3 |
| 85° | 36.6 | 39.8 | 43.0 | 46.2 | 99.9 | 153.4 | 207.1 | 260.7 | 264.2 | 267.0 | 305.3 |
| 87.5° | 10.7 | 11.7 | 12.5 | 13.4 | 22.1 | 31.0 | 39.7 | 48.4 | 30.1 | 18.7 | 38.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P366854
 CATALOG NUMBER: MSA-SA1B-830-U-SLR

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P366854

CATALOG NUMBER: MSA-SA1B-830-U-SLR

CANDELA DISTRIBUTION (continued):

| | 275° | 277.5° | 280° | 282.5° | 285° | 287.5° | 290° | 292.5° | 295° | 297.5° | 300° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 |
| 2.5° | 443.0 | 440.9 | 438.7 | 436.3 | 434.2 | 425.0 | 415.9 | 406.7 | 397.5 | 406.4 | 415.1 |
| 5° | 551.8 | 558.5 | 565.0 | 571.7 | 578.4 | 578.9 | 579.2 | 579.7 | 580.1 | 581.7 | 583.4 |
| 7.5° | 630.1 | 642.0 | 653.7 | 665.6 | 677.4 | 686.6 | 695.8 | 705.2 | 714.4 | 706.1 | 697.7 |
| 10° | 636.8 | 661.9 | 687.0 | 712.1 | 737.2 | 741.7 | 746.0 | 750.6 | 755.1 | 761.1 | 767.0 |
| 12.5° | 643.5 | 674.1 | 704.6 | 735.2 | 765.8 | 779.2 | 792.4 | 805.8 | 819.0 | 825.5 | 831.9 |
| 15° | 714.3 | 732.3 | 750.2 | 768.3 | 786.2 | 795.4 | 804.4 | 813.6 | 822.8 | 828.4 | 833.7 |
| 17.5° | 805.3 | 812.0 | 818.5 | 825.2 | 831.9 | 838.1 | 844.3 | 850.4 | 856.6 | 857.6 | 858.6 |
| 20° | 888.3 | 889.6 | 890.8 | 892.1 | 893.3 | 880.2 | 867.3 | 854.3 | 841.2 | 843.6 | 845.8 |
| 22.5° | 1012.7 | 1005.4 | 998.2 | 990.8 | 983.6 | 959.0 | 934.6 | 910.0 | 885.6 | 875.0 | 864.7 |
| 25° | 1200.1 | 1181.4 | 1162.7 | 1143.9 | 1125.2 | 1086.0 | 1047.0 | 1007.9 | 968.9 | 946.0 | 923.2 |
| 27.5° | 1260.5 | 1219.7 | 1179.0 | 1138.2 | 1097.4 | 1067.8 | 1038.3 | 1008.7 | 979.3 | 943.0 | 906.7 |
| 30° | 1382.7 | 1318.3 | 1254.0 | 1189.6 | 1125.2 | 1096.6 | 1068.0 | 1039.2 | 1010.6 | 973.4 | 936.4 |
| 32.5° | 1490.9 | 1424.0 | 1357.1 | 1290.0 | 1223.0 | 1168.8 | 1114.6 | 1060.4 | 1006.2 | 981.1 | 956.0 |
| 35° | 1616.2 | 1532.1 | 1447.9 | 1363.8 | 1279.6 | 1233.1 | 1186.7 | 1140.2 | 1093.9 | 1055.9 | 1018.1 |
| 37.5° | 1798.8 | 1709.3 | 1619.7 | 1530.1 | 1440.6 | 1377.6 | 1314.9 | 1252.0 | 1189.3 | 1168.3 | 1147.6 |
| 40° | 1972.8 | 1867.0 | 1761.5 | 1655.7 | 1550.1 | 1502.0 | 1453.8 | 1405.4 | 1357.2 | 1321.9 | 1286.6 |
| 42.5° | 2118.5 | 2013.9 | 1909.5 | 1805.0 | 1700.6 | 1665.4 | 1630.5 | 1595.3 | 1560.4 | 1531.2 | 1502.1 |
| 45° | 2168.5 | 2083.2 | 1998.0 | 1912.7 | 1827.4 | 1815.0 | 1802.8 | 1790.4 | 1778.2 | 1756.6 | 1735.0 |
| 47.5° | 2249.0 | 2162.0 | 2075.2 | 1988.2 | 1901.2 | 1905.7 | 1910.2 | 1914.9 | 1919.4 | 1920.6 | 1921.6 |
| 50° | 2296.4 | 2213.7 | 2131.2 | 2048.6 | 1966.1 | 1988.0 | 2009.7 | 2031.7 | 2053.6 | 2103.3 | 2152.8 |
| 52.5° | 2365.5 | 2284.3 | 2203.3 | 2122.2 | 2041.0 | 2078.2 | 2115.2 | 2152.3 | 2189.3 | 2258.9 | 2328.5 |
| 55° | 2452.1 | 2374.5 | 2297.0 | 2219.4 | 2141.9 | 2178.1 | 2214.0 | 2250.2 | 2286.1 | 2363.6 | 2441.1 |
| 57.5° | 2567.1 | 2483.9 | 2400.9 | 2317.8 | 2234.8 | 2268.1 | 2301.2 | 2334.5 | 2367.6 | 2441.2 | 2514.9 |
| 60° | 2697.9 | 2607.6 | 2517.2 | 2426.7 | 2336.3 | 2345.5 | 2354.6 | 2363.8 | 2372.8 | 2452.6 | 2532.3 |
| 62.5° | 2762.2 | 2678.5 | 2595.0 | 2511.4 | 2427.7 | 2402.1 | 2376.5 | 2350.7 | 2325.1 | 2396.6 | 2467.8 |
| 65° | 2706.4 | 2648.9 | 2591.5 | 2533.9 | 2476.4 | 2431.2 | 2386.2 | 2341.0 | 2295.9 | 2340.5 | 2385.0 |
| 67.5° | 2529.1 | 2496.5 | 2464.0 | 2431.4 | 2398.7 | 2323.0 | 2247.2 | 2171.2 | 2095.4 | 2098.4 | 2101.3 |
| 70° | 2241.6 | 2232.9 | 2224.4 | 2215.7 | 2207.0 | 2093.1 | 1979.3 | 1865.4 | 1751.4 | 1734.0 | 1716.6 |
| 72.5° | 1877.4 | 1883.1 | 1888.6 | 1894.3 | 1900.0 | 1777.5 | 1655.0 | 1532.6 | 1410.1 | 1381.2 | 1352.2 |
| 75° | 1454.1 | 1485.6 | 1517.0 | 1548.6 | 1580.1 | 1463.0 | 1345.9 | 1228.6 | 1111.5 | 1075.8 | 1040.2 |
| 77.5° | 1027.5 | 1086.2 | 1144.7 | 1203.5 | 1262.2 | 1156.3 | 1050.6 | 944.6 | 838.7 | 815.6 | 792.6 |
| 80° | 716.4 | 745.2 | 774.0 | 802.8 | 831.5 | 778.3 | 725.1 | 671.9 | 618.7 | 625.1 | 631.3 |
| 82.5° | 521.8 | 528.5 | 535.1 | 541.8 | 548.4 | 526.7 | 504.9 | 483.0 | 461.3 | 477.8 | 494.4 |
| 85° | 334.3 | 358.2 | 382.0 | 405.9 | 429.7 | 405.6 | 381.5 | 357.2 | 333.1 | 344.2 | 355.2 |
| 87.5° | 74.8 | 118.3 | 161.8 | 205.5 | 249.0 | 225.5 | 202.3 | 178.9 | 155.4 | 144.9 | 134.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P366854
 CATALOG NUMBER: MSA-SA1B-830-U-SLR

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P366854

CATALOG NUMBER: MSA-SA1B-830-U-SLR

CANDELA DISTRIBUTION (continued):

| | 302.5° | 305° | 307.5° | 310° | 312.5° | 315° | 317.5° | 320° | 322.5° | 325° | 327.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 |
| 2.5° | 424.0 | 432.8 | 430.2 | 427.6 | 425.0 | 422.3 | 427.1 | 432.0 | 437.0 | 441.9 | 440.2 |
| 5° | 585.3 | 586.9 | 571.0 | 555.3 | 539.4 | 523.5 | 533.4 | 543.3 | 553.1 | 563.0 | 559.5 |
| 7.5° | 689.3 | 681.0 | 671.8 | 662.6 | 653.2 | 644.0 | 642.0 | 640.0 | 637.8 | 635.8 | 633.1 |
| 10° | 773.0 | 778.8 | 772.8 | 767.0 | 760.9 | 754.9 | 740.9 | 726.8 | 712.6 | 698.5 | 692.7 |
| 12.5° | 838.4 | 844.9 | 846.4 | 847.8 | 849.3 | 850.8 | 835.1 | 819.5 | 803.8 | 788.0 | 773.8 |
| 15° | 839.2 | 844.8 | 849.6 | 854.3 | 859.1 | 863.8 | 854.1 | 844.6 | 834.9 | 825.2 | 820.7 |
| 17.5° | 859.8 | 860.8 | 856.8 | 853.0 | 848.9 | 845.1 | 841.2 | 837.6 | 833.7 | 830.0 | 822.8 |
| 20° | 848.1 | 850.4 | 849.9 | 849.4 | 848.8 | 848.3 | 848.6 | 848.8 | 849.1 | 849.3 | 845.3 |
| 22.5° | 854.1 | 843.6 | 845.8 | 847.8 | 849.9 | 852.0 | 858.0 | 864.0 | 870.2 | 876.2 | 892.3 |
| 25° | 900.3 | 877.4 | 873.9 | 870.5 | 867.0 | 863.7 | 879.4 | 895.0 | 910.7 | 926.4 | 952.5 |
| 27.5° | 870.2 | 833.9 | 825.9 | 817.8 | 809.8 | 801.8 | 825.7 | 849.4 | 873.4 | 897.3 | 923.9 |
| 30° | 899.3 | 862.3 | 844.6 | 826.9 | 809.0 | 791.2 | 814.1 | 836.9 | 859.8 | 882.6 | 912.0 |
| 32.5° | 930.9 | 905.8 | 893.9 | 882.2 | 870.4 | 858.6 | 860.5 | 862.3 | 864.2 | 866.0 | 907.5 |
| 35° | 980.1 | 942.1 | 930.4 | 918.7 | 907.0 | 895.3 | 914.9 | 934.3 | 953.8 | 973.3 | 1008.4 |
| 37.5° | 1126.7 | 1105.8 | 1084.7 | 1063.6 | 1042.4 | 1021.3 | 1032.8 | 1044.4 | 1055.9 | 1067.4 | 1100.6 |
| 40° | 1251.3 | 1216.0 | 1212.5 | 1209.2 | 1205.6 | 1202.1 | 1203.1 | 1204.0 | 1205.0 | 1206.0 | 1234.3 |
| 42.5° | 1472.8 | 1443.7 | 1425.8 | 1407.9 | 1390.0 | 1372.1 | 1371.0 | 1369.8 | 1368.4 | 1367.3 | 1388.5 |
| 45° | 1713.3 | 1691.7 | 1678.3 | 1664.9 | 1651.4 | 1638.0 | 1616.7 | 1595.5 | 1574.1 | 1552.8 | 1571.4 |
| 47.5° | 1922.7 | 1923.9 | 1948.2 | 1972.3 | 1996.5 | 2020.8 | 1984.5 | 1948.2 | 1911.9 | 1875.6 | 1851.6 |
| 50° | 2202.5 | 2252.0 | 2257.9 | 2263.6 | 2269.4 | 2275.3 | 2213.7 | 2152.3 | 2090.7 | 2029.2 | 2004.1 |
| 52.5° | 2398.2 | 2467.8 | 2458.8 | 2449.9 | 2440.9 | 2431.9 | 2396.2 | 2360.8 | 2325.1 | 2289.5 | 2234.8 |
| 55° | 2518.7 | 2596.2 | 2589.3 | 2582.6 | 2575.8 | 2568.9 | 2543.0 | 2517.0 | 2491.1 | 2465.2 | 2405.1 |
| 57.5° | 2588.5 | 2662.1 | 2664.1 | 2666.1 | 2668.1 | 2670.1 | 2663.3 | 2656.4 | 2649.6 | 2642.7 | 2564.6 |
| 60° | 2612.1 | 2691.9 | 2692.7 | 2693.4 | 2694.2 | 2694.9 | 2684.0 | 2673.1 | 2662.1 | 2651.2 | 2600.2 |
| 62.5° | 2539.3 | 2610.6 | 2613.7 | 2616.8 | 2619.9 | 2623.1 | 2615.6 | 2608.1 | 2600.5 | 2593.0 | 2555.2 |
| 65° | 2429.7 | 2474.4 | 2475.2 | 2475.9 | 2476.7 | 2477.6 | 2458.5 | 2439.6 | 2420.5 | 2401.4 | 2392.4 |
| 67.5° | 2104.3 | 2107.3 | 2125.0 | 2142.8 | 2160.5 | 2178.2 | 2179.7 | 2181.2 | 2182.9 | 2184.4 | 2171.4 |
| 70° | 1699.2 | 1681.8 | 1701.1 | 1720.3 | 1739.5 | 1758.8 | 1767.0 | 1775.2 | 1783.5 | 1791.7 | 1797.8 |
| 72.5° | 1323.1 | 1294.2 | 1308.4 | 1322.6 | 1337.0 | 1351.2 | 1339.0 | 1326.8 | 1314.6 | 1302.4 | 1341.0 |
| 75° | 1004.5 | 968.9 | 967.1 | 965.4 | 963.5 | 961.9 | 955.7 | 949.5 | 943.1 | 936.9 | 973.1 |
| 77.5° | 769.3 | 746.2 | 747.4 | 748.4 | 749.6 | 750.6 | 744.2 | 738.0 | 731.7 | 725.3 | 739.2 |
| 80° | 637.6 | 643.8 | 644.0 | 644.2 | 644.3 | 644.5 | 638.5 | 632.6 | 626.6 | 620.6 | 610.5 |
| 82.5° | 511.1 | 527.7 | 527.5 | 527.5 | 527.4 | 527.2 | 526.9 | 526.5 | 526.0 | 525.7 | 509.3 |
| 85° | 366.2 | 377.3 | 365.9 | 354.5 | 343.2 | 331.8 | 340.1 | 348.5 | 357.0 | 365.4 | 358.5 |
| 87.5° | 124.0 | 113.6 | 100.1 | 86.7 | 73.1 | 59.6 | 74.1 | 88.7 | 103.4 | 118.0 | 126.3 |
| 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: P366854
 CATALOG NUMBER: MSA-SA1B-830-U-SLR

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P366854

CATALOG NUMBER: MSA-SA1B-830-U-SLR

CANDELA DISTRIBUTION (continued):

| | 330° | 332.5° | 335° | 337.5° | 340° | 342.5° | 345° | 347.5° | 350° | 352.5° | 355° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 | 363.6 |
| 2.5° | 438.7 | 437.0 | 435.5 | 425.0 | 414.3 | 403.7 | 393.0 | 412.4 | 432.0 | 451.4 | 470.8 |
| 5° | 556.1 | 552.6 | 549.3 | 548.4 | 547.6 | 546.6 | 545.8 | 555.6 | 565.5 | 575.2 | 585.1 |
| 7.5° | 630.4 | 627.8 | 625.1 | 618.0 | 611.2 | 604.2 | 597.1 | 603.2 | 609.0 | 615.0 | 620.9 |
| 10° | 687.0 | 681.1 | 675.3 | 660.0 | 645.0 | 629.8 | 614.5 | 610.0 | 605.5 | 601.0 | 596.5 |
| 12.5° | 759.6 | 745.2 | 731.0 | 713.8 | 696.4 | 679.1 | 661.7 | 659.4 | 657.0 | 654.9 | 652.5 |
| 15° | 816.3 | 811.8 | 807.3 | 793.6 | 779.8 | 766.1 | 752.4 | 734.0 | 715.4 | 697.0 | 678.6 |
| 17.5° | 815.8 | 808.6 | 801.6 | 820.0 | 838.2 | 856.6 | 874.9 | 855.3 | 835.6 | 816.0 | 796.4 |
| 20° | 841.2 | 837.1 | 833.0 | 867.0 | 900.8 | 934.8 | 968.6 | 957.9 | 947.0 | 936.3 | 925.4 |
| 22.5° | 908.2 | 924.2 | 940.1 | 969.2 | 998.2 | 1027.3 | 1056.2 | 1068.5 | 1080.7 | 1092.9 | 1105.1 |
| 25° | 978.4 | 1004.5 | 1030.6 | 1074.0 | 1117.1 | 1160.5 | 1203.8 | 1212.5 | 1221.2 | 1229.9 | 1238.6 |
| 27.5° | 950.3 | 976.9 | 1003.5 | 1036.3 | 1069.0 | 1101.7 | 1134.4 | 1172.5 | 1210.8 | 1249.0 | 1287.1 |
| 30° | 941.3 | 970.7 | 1000.0 | 1045.0 | 1089.9 | 1134.9 | 1179.9 | 1232.4 | 1285.0 | 1337.3 | 1389.9 |
| 32.5° | 948.8 | 990.3 | 1031.8 | 1092.7 | 1153.4 | 1214.3 | 1275.3 | 1330.5 | 1385.8 | 1441.1 | 1496.3 |
| 35° | 1043.4 | 1078.5 | 1113.5 | 1181.6 | 1249.7 | 1317.7 | 1385.8 | 1450.6 | 1515.3 | 1579.9 | 1644.7 |
| 37.5° | 1133.5 | 1166.7 | 1199.8 | 1269.4 | 1338.8 | 1408.4 | 1478.0 | 1580.3 | 1682.7 | 1784.9 | 1887.1 |
| 40° | 1262.4 | 1290.6 | 1318.8 | 1378.3 | 1437.9 | 1497.4 | 1557.0 | 1680.3 | 1803.6 | 1926.9 | 2050.2 |
| 42.5° | 1409.6 | 1430.9 | 1451.9 | 1513.7 | 1575.4 | 1637.1 | 1698.9 | 1833.1 | 1967.4 | 2101.6 | 2235.8 |
| 45° | 1589.8 | 1608.4 | 1626.9 | 1669.4 | 1711.9 | 1754.6 | 1797.1 | 1935.5 | 2073.8 | 2212.2 | 2350.6 |
| 47.5° | 1827.7 | 1803.8 | 1779.9 | 1800.8 | 1821.7 | 1842.6 | 1863.5 | 2000.4 | 2137.2 | 2273.9 | 2410.8 |
| 50° | 1979.0 | 1953.9 | 1928.8 | 1930.6 | 1932.3 | 1934.1 | 1936.0 | 2063.6 | 2191.3 | 2318.8 | 2446.4 |
| 52.5° | 2180.1 | 2125.2 | 2070.5 | 2070.0 | 2069.5 | 2068.8 | 2068.3 | 2179.6 | 2291.0 | 2402.3 | 2513.5 |
| 55° | 2345.0 | 2285.0 | 2224.9 | 2213.2 | 2201.5 | 2189.6 | 2177.9 | 2288.0 | 2397.9 | 2508.0 | 2617.9 |
| 57.5° | 2486.4 | 2408.1 | 2330.0 | 2311.6 | 2293.2 | 2274.8 | 2256.4 | 2375.0 | 2493.8 | 2612.4 | 2731.0 |
| 60° | 2549.3 | 2498.3 | 2447.4 | 2424.9 | 2402.3 | 2379.7 | 2357.1 | 2458.1 | 2559.2 | 2660.1 | 2761.1 |
| 62.5° | 2517.5 | 2479.7 | 2442.1 | 2447.3 | 2452.5 | 2457.6 | 2462.8 | 2520.6 | 2578.4 | 2636.2 | 2693.9 |
| 65° | 2383.5 | 2374.5 | 2365.6 | 2407.5 | 2449.3 | 2491.1 | 2532.9 | 2533.8 | 2534.6 | 2535.4 | 2536.3 |
| 67.5° | 2158.3 | 2145.3 | 2132.2 | 2219.2 | 2306.1 | 2393.1 | 2480.1 | 2438.7 | 2397.4 | 2356.3 | 2314.9 |
| 70° | 1803.6 | 1809.6 | 1815.5 | 1934.0 | 2052.2 | 2170.7 | 2289.2 | 2229.3 | 2169.2 | 2109.3 | 2049.2 |
| 72.5° | 1379.7 | 1418.5 | 1457.1 | 1579.9 | 1702.7 | 1825.5 | 1948.3 | 1879.9 | 1811.3 | 1742.9 | 1674.3 |
| 75° | 1009.2 | 1045.4 | 1081.5 | 1202.8 | 1324.1 | 1445.6 | 1566.9 | 1485.6 | 1404.2 | 1323.1 | 1241.8 |
| 77.5° | 753.1 | 767.1 | 781.0 | 881.9 | 982.6 | 1083.5 | 1184.2 | 1102.6 | 1020.9 | 939.5 | 857.8 |
| 80° | 600.6 | 590.6 | 580.7 | 636.6 | 692.5 | 748.4 | 804.3 | 746.4 | 688.3 | 630.4 | 572.5 |
| 82.5° | 493.1 | 476.7 | 460.4 | 481.2 | 501.9 | 522.8 | 543.6 | 497.3 | 450.9 | 404.6 | 358.2 |
| 85° | 351.7 | 344.8 | 338.0 | 344.0 | 349.8 | 355.9 | 361.9 | 316.7 | 271.5 | 226.5 | 181.4 |
| 87.5° | 134.5 | 142.9 | 151.2 | 160.8 | 170.2 | 179.7 | 189.1 | 148.1 | 107.1 | 66.3 | 25.3 |
| 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: P366854
 CATALOG NUMBER: MSA-SA1B-830-U-SLR

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P366854
 CATALOG NUMBER: MSA-SA1B-830-U-SLR

CANDELA DISTRIBUTION (continued):

| | 357.5° | 360° |
|--------|--------|--------|
| 0° | 363.6 | 363.6 |
| 2.5° | 478.8 | 486.9 |
| 5° | 584.9 | 584.8 |
| 7.5° | 618.2 | 615.4 |
| 10° | 589.1 | 581.7 |
| 12.5° | 630.8 | 608.8 |
| 15° | 656.9 | 634.9 |
| 17.5° | 763.4 | 730.3 |
| 20° | 886.1 | 846.6 |
| 22.5° | 1045.0 | 985.0 |
| 25° | 1166.8 | 1094.9 |
| 27.5° | 1244.5 | 1201.6 |
| 30° | 1340.8 | 1291.8 |
| 32.5° | 1460.1 | 1423.8 |
| 35° | 1611.5 | 1578.3 |
| 37.5° | 1876.7 | 1866.2 |
| 40° | 2037.7 | 2025.0 |
| 42.5° | 2236.3 | 2236.6 |
| 45° | 2358.1 | 2365.6 |
| 47.5° | 2429.9 | 2448.8 |
| 50° | 2487.1 | 2527.6 |
| 52.5° | 2568.9 | 2624.3 |
| 55° | 2691.5 | 2765.0 |
| 57.5° | 2793.6 | 2856.2 |
| 60° | 2793.6 | 2825.9 |
| 62.5° | 2693.1 | 2692.0 |
| 65° | 2520.7 | 2505.0 |
| 67.5° | 2295.2 | 2275.4 |
| 70° | 2018.5 | 1987.5 |
| 72.5° | 1636.0 | 1597.5 |
| 75° | 1189.1 | 1136.2 |
| 77.5° | 832.7 | 807.4 |
| 80° | 584.8 | 597.0 |
| 82.5° | 375.6 | 393.0 |
| 85° | 178.7 | 176.0 |
| 87.5° | 21.1 | 16.9 |
| 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: P366854
CATALOG NUMBER: MSA-SA1B-830-U-SLR

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)