

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: P368064

Luminaire Tested: **MSA-SA3D-727-U-SLR**

Issue Date: 12/2/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P368064  
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-SA3D-727-U-SLR  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS  
EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS.  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14260 lumens  
Efficiency: N/A  
Efficacy: 74.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

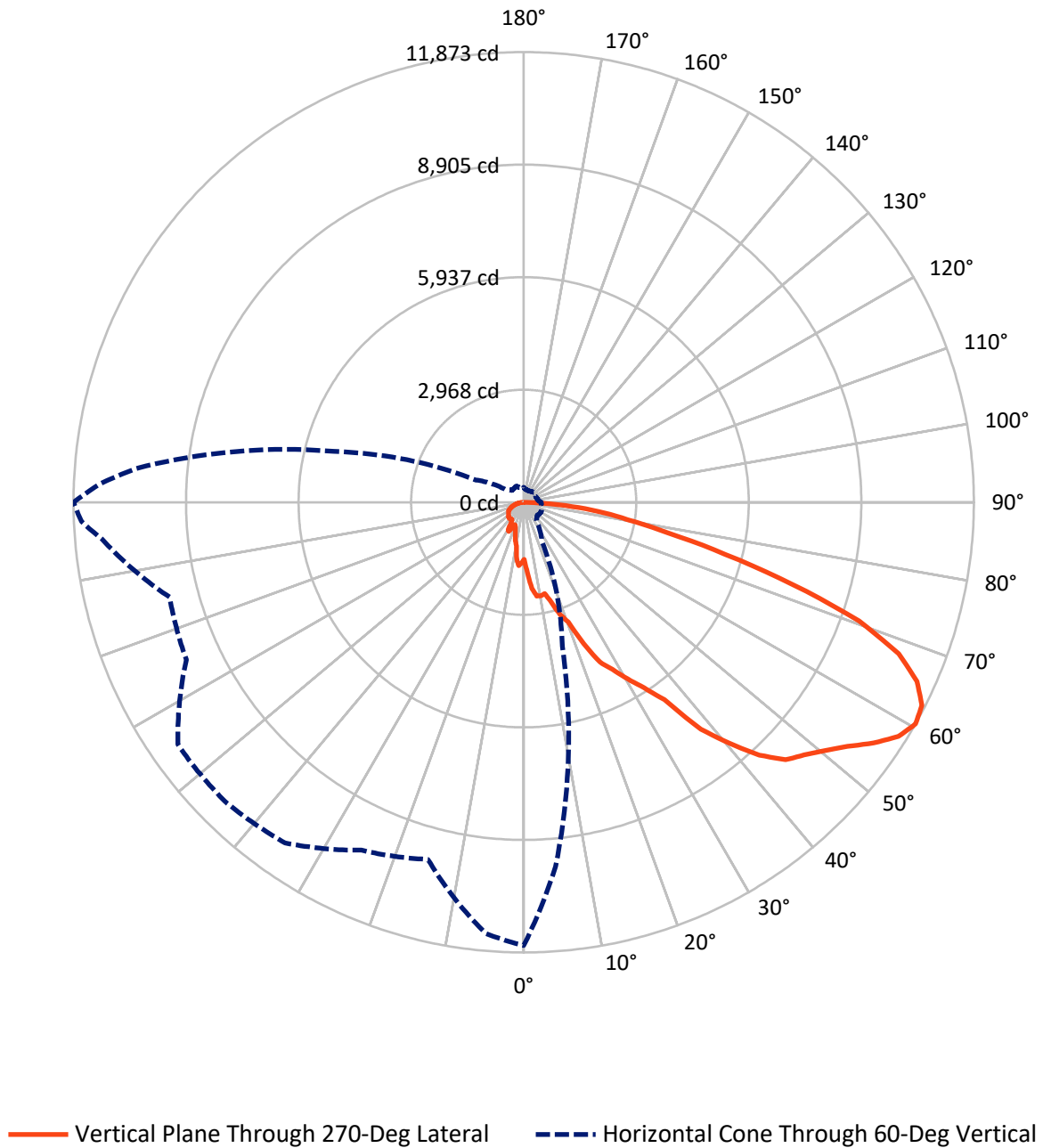
Input Watts (W): 192  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT





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CATALOG NUMBER: MSA-SA3D-727-U-SLR

## Luminous Intensity Polar Plot



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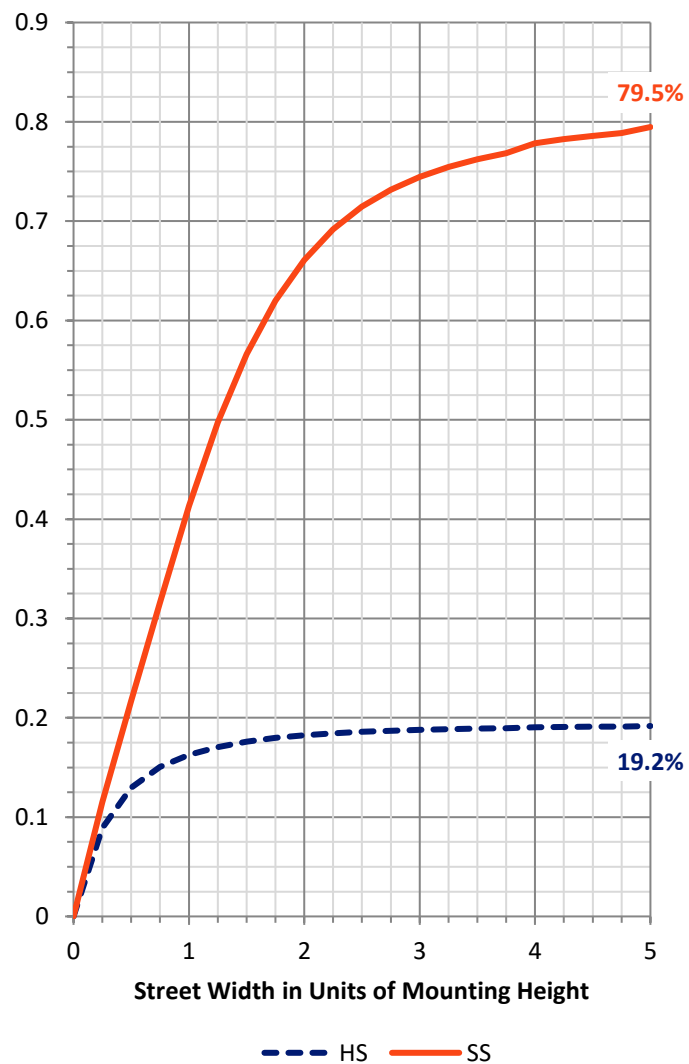
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2761.9   | 0.0    | 2761.9  |
|                    | % Fixture | 19.4     | 0.0    | 19.4    |
| <b>Street Side</b> | Lumens    | 11498.1  | 0.0    | 11498.1 |
|                    | % Fixture | 80.6     | 0.0    | 80.6    |
| <b>Total</b>       | Lumens    | 14260.0  | 0.0    | 14260.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 172.4   | 1.2       |
| 10°-20°   | 501.1   | 3.5       |
| 20°-30°   | 884.5   | 6.2       |
| 30°-40°   | 1377.6  | 9.7       |
| 40°-50°   | 2268.0  | 15.9      |
| 50°-60°   | 3237.2  | 22.7      |
| 60°-70°   | 3432.6  | 24.1      |
| 70°-80°   | 1896.0  | 13.3      |
| 80°-90°   | 490.5   | 3.4       |
| 90°-100°  | 0.0     | 0.0       |
| 100°-110° | 0.0     | 0.0       |
| 110°-120° | 0.0     | 0.0       |
| 120°-130° | 0.0     | 0.0       |
| 130°-140° | 0.0     | 0.0       |
| 140°-150° | 0.0     | 0.0       |
| 150°-160° | 0.0     | 0.0       |
| 160°-170° | 0.0     | 0.0       |
| 170°-180° | 0.0     | 0.0       |
| 0°-90°    | 14260.0 | 100.0     |
| 0°-180°   | 14260.0 | 100.0     |

**Coefficient of Utilization**



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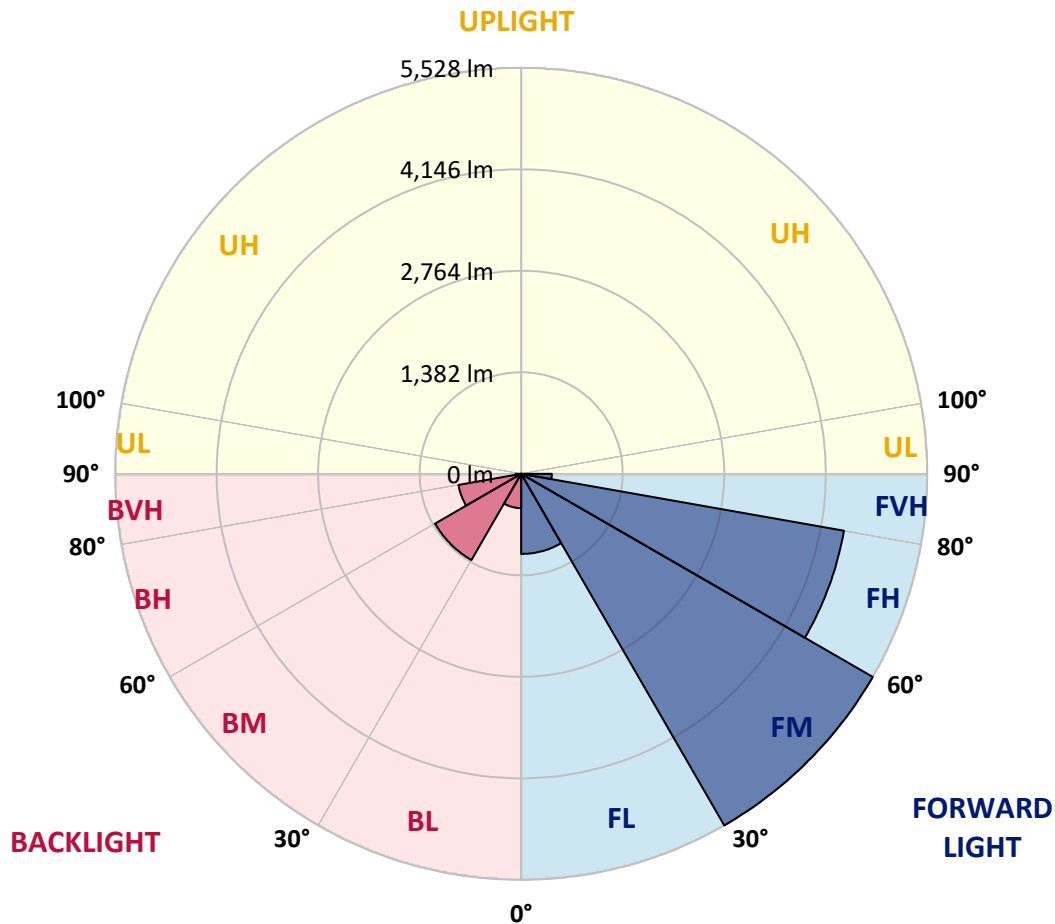
CATALOG NUMBER: MSA-SA3D-727-U-SLR

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1091.1 | 7.7       |                         |      |         |
| FM   | (30°-60°)   | 5528.1 | 38.8      |                         |      |         |
| FH   | (60°-80°)   | 4462.0 | 31.3      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 416.9  | 2.9       |                         |      | G3/500  |
| BL   | (0°-30°)    | 466.9  | 3.3       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1354.8 | 9.5       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 866.6  | 6.1       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 73.6   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°      | 2.5°    | 5°     | 7.5°   | 10°    | 12.5°  | 15°    | 17.5°  | 20°    | 22.5°  | 25°    |
|--------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1504.1  | 1504.1  | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 |
| 2.5°   | 2014.2  | 2026.6  | 2038.4 | 2014.9 | 1991.3 | 1967.1 | 1943.6 | 1908.3 | 1872.3 | 1837.0 | 1801.0 |
| 5°     | 2419.1  | 2373.4  | 2327.0 | 2308.3 | 2290.3 | 2271.7 | 2253.0 | 2235.7 | 2218.4 | 2200.4 | 2183.1 |
| 7.5°   | 2545.8  | 2480.7  | 2414.9 | 2387.3 | 2359.6 | 2331.2 | 2303.5 | 2241.2 | 2178.9 | 2115.9 | 2053.6 |
| 10°    | 2406.6  | 2338.8  | 2270.3 | 2243.3 | 2215.6 | 2188.6 | 2160.9 | 2084.8 | 2009.3 | 1933.2 | 1857.1 |
| 12.5°  | 2518.8  | 2449.5  | 2379.6 | 2293.8 | 2208.0 | 2121.5 | 2035.6 | 1993.4 | 1951.2 | 1908.3 | 1866.1 |
| 15°    | 2626.7  | 2533.3  | 2439.2 | 2353.3 | 2267.5 | 2181.0 | 2095.2 | 2010.7 | 1926.3 | 1841.8 | 1757.4 |
| 17.5°  | 3021.3  | 2865.5  | 2709.8 | 2554.8 | 2399.0 | 2244.0 | 2088.2 | 1990.6 | 1892.4 | 1794.8 | 1696.5 |
| 20°    | 3502.3  | 3285.7  | 3068.3 | 2833.0 | 2597.0 | 2361.6 | 2125.6 | 2002.4 | 1879.9 | 1756.7 | 1633.5 |
| 22.5°  | 4074.7  | 3801.3  | 3527.9 | 3231.0 | 2934.1 | 2636.4 | 2339.5 | 2160.9 | 1982.3 | 1803.1 | 1624.5 |
| 25°    | 4529.5  | 4266.5  | 4003.4 | 3626.9 | 3250.4 | 2873.8 | 2497.3 | 2294.5 | 2091.7 | 1888.2 | 1685.4 |
| 27.5°  | 4971.1  | 4552.3  | 4132.9 | 3701.7 | 3271.1 | 2839.9 | 2408.7 | 2221.1 | 2033.6 | 1846.0 | 1658.4 |
| 30°    | 5344.1  | 5011.9  | 4679.7 | 4117.0 | 3554.2 | 2990.8 | 2428.1 | 2197.6 | 1967.1 | 1736.6 | 1506.1 |
| 32.5°  | 5890.3  | 5416.1  | 4941.3 | 4354.4 | 3767.4 | 3180.5 | 2593.5 | 2298.7 | 2003.8 | 1708.9 | 1414.1 |
| 35°    | 6529.1  | 6036.3  | 5543.5 | 4817.4 | 4092.0 | 3366.0 | 2639.9 | 2327.7 | 2014.9 | 1702.7 | 1389.9 |
| 37.5°  | 7720.3  | 6851.7  | 5982.3 | 5189.8 | 4397.3 | 3604.1 | 2811.5 | 2448.9 | 2086.2 | 1722.8 | 1360.1 |
| 40°    | 8377.2  | 7574.3  | 6771.4 | 5783.7 | 4796.0 | 3807.6 | 2819.8 | 2448.9 | 2077.2 | 1706.2 | 1334.5 |
| 42.5°  | 9252.8  | 8237.4  | 7221.3 | 6153.3 | 5086.0 | 4018.0 | 2950.0 | 2538.8 | 2127.7 | 1715.9 | 1304.7 |
| 45°    | 9786.4  | 8654.7  | 7522.4 | 6381.0 | 5239.6 | 4098.3 | 2956.9 | 2539.5 | 2122.2 | 1704.8 | 1287.4 |
| 47.5°  | 10130.4 | 9043.7  | 7956.4 | 6727.8 | 5499.2 | 4269.9 | 3041.3 | 2598.4 | 2154.7 | 1711.7 | 1268.0 |
| 50°    | 10456.4 | 9380.1  | 8303.1 | 7027.5 | 5752.5 | 4476.9 | 3201.2 | 2717.4 | 2233.6 | 1749.1 | 1265.3 |
| 52.5°  | 10856.5 | 9865.3  | 8873.5 | 7505.1 | 6136.0 | 4767.6 | 3398.5 | 2871.8 | 2345.0 | 1818.3 | 1291.6 |
| 55°    | 11438.6 | 10462.0 | 9484.6 | 8015.9 | 6546.4 | 5077.7 | 3608.2 | 3023.3 | 2439.2 | 1854.3 | 1269.4 |
| 57.5°  | 11815.8 | 10825.3 | 9834.9 | 8337.0 | 6839.2 | 5340.7 | 3842.9 | 3195.0 | 2547.1 | 1898.6 | 1250.7 |
| 60°    | 11690.5 | 10668.9 | 9646.6 | 8218.7 | 6790.8 | 5362.8 | 3934.9 | 3235.1 | 2536.1 | 1836.3 | 1136.5 |
| 62.5°  | 11136.8 | 10050.8 | 8964.8 | 7685.7 | 6407.3 | 5128.2 | 3849.1 | 3137.6 | 2426.7 | 1715.2 | 1003.6 |
| 65°    | 10363.0 | 9240.3  | 8116.9 | 6963.1 | 5809.3 | 4655.5 | 3501.6 | 2855.8 | 2209.4 | 1563.6 | 917.1  |
| 67.5°  | 9413.3  | 8242.9  | 7071.8 | 6050.1 | 5028.5 | 4006.2 | 2984.6 | 2444.7 | 1905.5 | 1365.6 | 825.7  |
| 70°    | 8222.1  | 7071.8  | 5921.4 | 5037.5 | 4153.6 | 3269.8 | 2385.9 | 1979.6 | 1574.0 | 1167.7 | 761.4  |
| 72.5°  | 6608.7  | 5616.2  | 4623.6 | 3928.0 | 3232.4 | 2536.8 | 1841.1 | 1558.7 | 1277.0 | 994.6  | 712.2  |
| 75°    | 4700.4  | 4117.0  | 3533.5 | 2992.2 | 2450.9 | 1909.0 | 1367.7 | 1185.0 | 1002.2 | 819.5  | 636.8  |
| 77.5°  | 3340.4  | 2996.3  | 2652.3 | 2228.1 | 1803.8 | 1379.5 | 955.2  | 847.9  | 741.3  | 634.0  | 526.7  |
| 80°    | 2469.6  | 2182.4  | 1895.1 | 1575.4 | 1255.6 | 935.8  | 616.0  | 563.4  | 511.5  | 458.9  | 406.3  |
| 82.5°  | 1625.9  | 1496.4  | 1366.3 | 1113.0 | 859.7  | 606.3  | 353.0  | 333.6  | 314.2  | 294.9  | 275.5  |
| 85°    | 728.1   | 769.0   | 809.1  | 654.1  | 498.4  | 343.3  | 187.6  | 178.6  | 169.6  | 160.6  | 151.6  |
| 87.5°  | 69.9    | 103.1   | 136.4  | 117.0  | 96.9   | 77.5   | 57.4   | 56.8   | 56.8   | 56.1   | 55.4   |
| 90°    | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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**CANDELA DISTRIBUTION (continued):**

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

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**CANDELA DISTRIBUTION (continued):**

|        | 27.5°  | 30°    | 32.5°  | 35°    | 37.5°  | 40°    | 42.5°  | 45°    | 47.5°  | 50°    | 52.5°  |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 |
| 2.5°   | 1810.7 | 1820.4 | 1830.1 | 1839.8 | 1829.4 | 1819.0 | 1807.9 | 1797.5 | 1784.4 | 1771.2 | 1757.4 |
| 5°     | 2154.0 | 2124.2 | 2095.2 | 2065.4 | 2021.1 | 1976.8 | 1931.8 | 1887.5 | 1882.0 | 1875.7 | 1870.2 |
| 7.5°   | 1999.0 | 1945.0 | 1890.3 | 1835.6 | 1766.4 | 1697.9 | 1628.6 | 1559.4 | 1538.7 | 1517.9 | 1497.1 |
| 10°    | 1820.4 | 1783.0 | 1746.3 | 1708.9 | 1666.0 | 1623.1 | 1579.5 | 1536.6 | 1479.8 | 1422.4 | 1365.6 |
| 12.5°  | 1805.1 | 1744.2 | 1682.6 | 1621.7 | 1595.4 | 1569.1 | 1542.8 | 1516.5 | 1466.7 | 1416.8 | 1366.3 |
| 15°    | 1708.2 | 1658.4 | 1609.3 | 1559.4 | 1521.4 | 1483.3 | 1445.2 | 1407.2 | 1367.0 | 1326.2 | 1286.0 |
| 17.5°  | 1639.7 | 1583.0 | 1526.2 | 1469.5 | 1425.8 | 1382.2 | 1337.9 | 1294.3 | 1245.9 | 1196.7 | 1148.3 |
| 20°    | 1568.4 | 1504.1 | 1439.0 | 1373.9 | 1318.6 | 1263.9 | 1208.5 | 1153.1 | 1099.8 | 1047.2 | 993.9  |
| 22.5°  | 1539.4 | 1454.2 | 1369.1 | 1284.0 | 1225.8 | 1167.0 | 1108.8 | 1050.0 | 1000.9 | 951.7  | 902.6  |
| 25°    | 1583.7 | 1482.6 | 1380.9 | 1279.1 | 1200.9 | 1122.0 | 1043.8 | 964.9  | 924.0  | 883.2  | 841.7  |
| 27.5°  | 1531.7 | 1404.4 | 1277.7 | 1150.4 | 1066.6 | 982.2  | 898.4  | 814.0  | 807.7  | 801.5  | 794.6  |
| 30°    | 1372.5 | 1239.0 | 1105.4 | 971.8  | 895.0  | 817.4  | 740.6  | 663.1  | 648.6  | 633.3  | 618.8  |
| 32.5°  | 1277.7 | 1141.4 | 1005.0 | 868.7  | 800.1  | 730.9  | 662.4  | 593.2  | 576.6  | 560.0  | 543.3  |
| 35°    | 1241.7 | 1093.6 | 945.5  | 797.4  | 738.5  | 679.7  | 620.9  | 562.0  | 550.3  | 539.2  | 527.4  |
| 37.5°  | 1212.7 | 1065.9 | 918.5  | 771.1  | 714.3  | 657.5  | 600.1  | 543.3  | 534.3  | 525.3  | 516.3  |
| 40°    | 1185.0 | 1036.2 | 886.7  | 737.1  | 686.6  | 636.8  | 586.3  | 535.7  | 530.2  | 524.7  | 518.4  |
| 42.5°  | 1160.1 | 1015.4 | 870.0  | 725.4  | 680.4  | 636.1  | 591.1  | 546.1  | 540.6  | 535.0  | 529.5  |
| 45°    | 1146.2 | 1005.0 | 863.8  | 722.6  | 690.1  | 657.5  | 624.3  | 591.8  | 578.6  | 565.5  | 551.6  |
| 47.5°  | 1135.8 | 1003.6 | 871.4  | 739.2  | 705.3  | 671.4  | 637.5  | 603.6  | 591.8  | 580.0  | 567.6  |
| 50°    | 1137.9 | 1011.2 | 883.9  | 756.5  | 715.7  | 674.2  | 633.3  | 591.8  | 590.4  | 589.0  | 587.6  |
| 52.5°  | 1156.6 | 1022.3 | 887.3  | 752.4  | 708.1  | 663.8  | 618.8  | 574.5  | 583.5  | 591.8  | 600.8  |
| 55°    | 1129.6 | 989.8  | 849.3  | 709.5  | 667.2  | 625.7  | 583.5  | 541.3  | 553.0  | 564.1  | 575.9  |
| 57.5°  | 1099.1 | 947.6  | 796.0  | 644.4  | 612.6  | 580.7  | 548.2  | 516.3  | 528.8  | 542.0  | 554.4  |
| 60°    | 998.1  | 859.7  | 721.2  | 582.8  | 561.3  | 539.9  | 518.4  | 497.0  | 502.5  | 508.0  | 513.6  |
| 62.5°  | 887.3  | 770.4  | 654.1  | 537.1  | 520.5  | 503.2  | 486.6  | 469.3  | 469.3  | 470.0  | 470.0  |
| 65°    | 816.7  | 716.4  | 616.0  | 515.7  | 497.0  | 478.3  | 458.9  | 440.2  | 437.4  | 434.7  | 431.9  |
| 67.5°  | 746.1  | 667.2  | 587.6  | 508.0  | 481.0  | 454.7  | 427.8  | 400.8  | 397.3  | 394.5  | 391.1  |
| 70°    | 690.8  | 620.2  | 549.6  | 479.0  | 448.5  | 418.8  | 388.3  | 357.8  | 355.1  | 353.0  | 350.2  |
| 72.5°  | 645.8  | 580.0  | 513.6  | 447.1  | 415.3  | 382.8  | 350.9  | 318.4  | 316.3  | 314.2  | 311.5  |
| 75°    | 578.0  | 519.8  | 461.0  | 402.1  | 371.0  | 340.5  | 309.4  | 278.2  | 275.5  | 273.4  | 270.6  |
| 77.5°  | 478.3  | 429.1  | 380.7  | 331.5  | 307.3  | 283.8  | 259.6  | 235.3  | 233.9  | 232.6  | 230.5  |
| 80°    | 368.2  | 330.2  | 291.4  | 253.3  | 237.4  | 220.8  | 204.9  | 188.3  | 187.6  | 186.9  | 185.5  |
| 82.5°  | 252.6  | 229.8  | 207.0  | 184.1  | 172.3  | 159.9  | 148.1  | 135.7  | 136.4  | 137.0  | 137.7  |
| 85°    | 144.0  | 135.7  | 128.0  | 119.7  | 110.1  | 101.1  | 91.4   | 81.7   | 83.8   | 85.8   | 87.2   |
| 87.5°  | 52.6   | 49.8   | 47.1   | 44.3   | 39.5   | 35.3   | 30.5   | 25.6   | 27.0   | 29.1   | 30.5   |
| 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    |



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CATALOG NUMBER: MSA-SA3D-727-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   |

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CATALOG NUMBER: MSA-SA3D-727-U-SLR

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 57.5°  | 60°    | 62.5°  | 65°    | 67.5°  | 70°    | 72.5°  | 75°    | 77.5°  | 80°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 |
| 2.5°   | 1744.2 | 1723.5 | 1702.7 | 1681.9 | 1661.2 | 1618.3 | 1576.0 | 1533.1 | 1490.2 | 1516.5 | 1543.5 |
| 5°     | 1864.0 | 1828.7 | 1792.7 | 1757.4 | 1721.4 | 1701.3 | 1681.3 | 1661.2 | 1641.1 | 1651.5 | 1662.6 |
| 7.5°   | 1476.4 | 1455.6 | 1434.2 | 1413.4 | 1391.9 | 1382.9 | 1374.6 | 1365.6 | 1356.6 | 1382.2 | 1407.8 |
| 10°    | 1308.2 | 1279.1 | 1250.0 | 1220.3 | 1191.2 | 1173.9 | 1156.6 | 1139.3 | 1122.0 | 1128.9 | 1135.8 |
| 12.5°  | 1316.5 | 1273.6 | 1230.7 | 1187.7 | 1144.8 | 1119.2 | 1093.6 | 1068.0 | 1042.4 | 1048.6 | 1054.8 |
| 15°    | 1245.2 | 1200.9 | 1156.6 | 1112.3 | 1068.0 | 1038.2 | 1007.8 | 978.0  | 947.6  | 937.2  | 926.1  |
| 17.5°  | 1099.1 | 1050.7 | 1002.2 | 953.8  | 905.3  | 885.3  | 865.2  | 845.1  | 825.1  | 814.0  | 802.9  |
| 20°    | 940.6  | 895.7  | 850.7  | 805.7  | 760.7  | 746.8  | 733.0  | 718.5  | 704.6  | 697.7  | 690.1  |
| 22.5°  | 853.4  | 825.7  | 797.4  | 769.7  | 741.3  | 725.4  | 710.2  | 694.2  | 678.3  | 670.7  | 662.4  |
| 25°    | 800.8  | 806.4  | 812.6  | 818.1  | 823.7  | 816.7  | 809.1  | 802.2  | 794.6  | 797.4  | 799.4  |
| 27.5°  | 788.4  | 800.1  | 812.6  | 824.4  | 836.1  | 842.4  | 848.6  | 854.8  | 861.0  | 863.1  | 865.2  |
| 30°    | 603.6  | 609.8  | 615.3  | 621.6  | 627.1  | 644.4  | 661.7  | 678.3  | 695.6  | 722.6  | 750.3  |
| 32.5°  | 526.7  | 524.7  | 522.6  | 519.8  | 517.7  | 521.9  | 526.0  | 529.5  | 533.7  | 543.3  | 553.7  |
| 35°    | 515.7  | 510.8  | 505.3  | 500.4  | 494.9  | 497.0  | 499.0  | 501.1  | 503.2  | 510.8  | 518.4  |
| 37.5°  | 507.4  | 505.3  | 503.9  | 501.8  | 499.7  | 504.6  | 508.7  | 513.6  | 517.7  | 524.0  | 530.2  |
| 40°    | 512.9  | 512.2  | 511.5  | 510.1  | 509.4  | 512.2  | 515.0  | 517.7  | 520.5  | 528.8  | 537.1  |
| 42.5°  | 524.0  | 524.0  | 523.3  | 523.3  | 522.6  | 525.3  | 527.4  | 530.2  | 532.3  | 537.1  | 542.0  |
| 45°    | 538.5  | 537.1  | 536.4  | 535.0  | 533.7  | 533.0  | 533.0  | 532.3  | 531.6  | 534.3  | 537.8  |
| 47.5°  | 555.8  | 551.0  | 545.4  | 540.6  | 535.0  | 533.7  | 531.6  | 530.2  | 528.1  | 529.5  | 530.9  |
| 50°    | 586.3  | 573.1  | 560.6  | 547.5  | 534.3  | 530.9  | 527.4  | 524.0  | 520.5  | 519.8  | 519.8  |
| 52.5°  | 609.1  | 589.7  | 570.3  | 551.0  | 531.6  | 525.3  | 519.1  | 512.9  | 506.7  | 505.3  | 504.6  |
| 55°    | 586.9  | 572.4  | 558.6  | 544.0  | 529.5  | 520.5  | 510.8  | 501.8  | 492.1  | 490.0  | 488.0  |
| 57.5°  | 566.9  | 557.9  | 548.9  | 539.9  | 530.9  | 521.9  | 512.2  | 503.2  | 493.5  | 488.7  | 483.8  |
| 60°    | 519.1  | 519.1  | 519.8  | 519.8  | 519.8  | 510.1  | 500.4  | 490.7  | 481.0  | 476.2  | 472.1  |
| 62.5°  | 470.0  | 477.6  | 484.5  | 492.1  | 499.0  | 485.9  | 472.1  | 458.9  | 445.1  | 441.6  | 438.8  |
| 65°    | 429.1  | 431.2  | 434.0  | 436.1  | 438.1  | 427.8  | 417.4  | 407.0  | 396.6  | 394.5  | 391.8  |
| 67.5°  | 387.6  | 386.9  | 386.2  | 384.8  | 384.1  | 377.9  | 371.0  | 364.8  | 357.8  | 355.1  | 352.3  |
| 70°    | 347.5  | 346.8  | 346.1  | 344.7  | 344.0  | 338.5  | 332.9  | 327.4  | 321.9  | 319.8  | 317.7  |
| 72.5°  | 309.4  | 308.7  | 307.3  | 306.6  | 305.2  | 300.4  | 296.2  | 291.4  | 286.6  | 283.8  | 281.0  |
| 75°    | 267.9  | 266.5  | 265.1  | 263.7  | 262.3  | 258.2  | 254.0  | 249.2  | 245.0  | 242.3  | 239.5  |
| 77.5°  | 229.1  | 227.0  | 225.0  | 222.2  | 220.1  | 216.6  | 212.5  | 209.0  | 204.9  | 201.4  | 198.6  |
| 80°    | 184.8  | 183.4  | 182.0  | 180.0  | 178.6  | 175.1  | 171.7  | 167.5  | 164.0  | 159.9  | 156.4  |
| 82.5°  | 138.4  | 137.7  | 136.4  | 135.7  | 134.3  | 130.8  | 127.4  | 123.9  | 120.4  | 116.3  | 112.1  |
| 85°    | 89.3   | 88.6   | 87.9   | 87.2   | 86.5   | 83.8   | 81.7   | 78.9   | 76.1   | 72.0   | 68.5   |
| 87.5°  | 31.8   | 30.5   | 29.8   | 28.4   | 27.0   | 26.3   | 24.9   | 24.2   | 22.8   | 20.8   | 18.7   |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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**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 |

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CATALOG NUMBER: MSA-SA3D-727-U-SLR

**CANDELA DISTRIBUTION (continued):**

|        | 82.5°  | 85°    | 87.5°  | 90°    | 92.5°  | 95°    | 97.5°  | 100°   | 102.5° | 105°   | 107.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 |
| 2.5°   | 1569.8 | 1596.1 | 1596.8 | 1596.8 | 1609.3 | 1621.0 | 1596.8 | 1572.6 | 1547.7 | 1523.4 | 1499.2 |
| 5°     | 1672.9 | 1683.3 | 1680.6 | 1677.1 | 1661.9 | 1646.6 | 1630.7 | 1614.8 | 1598.9 | 1583.0 | 1583.7 |
| 7.5°   | 1433.5 | 1459.1 | 1479.8 | 1499.9 | 1480.5 | 1461.1 | 1450.8 | 1440.4 | 1430.0 | 1419.6 | 1418.2 |
| 10°    | 1142.1 | 1149.0 | 1157.3 | 1164.9 | 1153.1 | 1140.7 | 1161.4 | 1182.2 | 1202.3 | 1223.0 | 1200.2 |
| 12.5°  | 1061.1 | 1067.3 | 1052.8 | 1037.5 | 1032.7 | 1027.9 | 1023.0 | 1017.5 | 1012.6 | 1007.1 | 1004.3 |
| 15°    | 915.7  | 904.6  | 893.6  | 881.8  | 879.0  | 875.6  | 872.1  | 868.0  | 864.5  | 860.4  | 847.9  |
| 17.5°  | 791.8  | 780.8  | 762.1  | 742.7  | 735.1  | 726.8  | 724.7  | 722.6  | 719.8  | 717.8  | 706.0  |
| 20°    | 683.2  | 675.5  | 670.7  | 665.2  | 657.5  | 649.9  | 642.3  | 634.7  | 626.4  | 618.8  | 607.7  |
| 22.5°  | 654.8  | 646.5  | 640.2  | 633.3  | 631.9  | 630.6  | 616.7  | 602.2  | 588.3  | 573.8  | 567.6  |
| 25°    | 802.2  | 804.3  | 766.2  | 727.5  | 724.0  | 720.5  | 695.6  | 670.0  | 645.1  | 619.5  | 598.0  |
| 27.5°  | 866.6  | 868.7  | 867.3  | 865.9  | 854.8  | 843.0  | 800.8  | 757.9  | 715.7  | 672.8  | 642.3  |
| 30°    | 777.3  | 804.3  | 814.7  | 825.1  | 817.4  | 809.1  | 764.8  | 721.2  | 676.9  | 632.6  | 612.6  |
| 32.5°  | 563.4  | 573.1  | 590.4  | 607.0  | 616.0  | 624.3  | 610.5  | 596.6  | 582.8  | 569.0  | 565.5  |
| 35°    | 525.3  | 533.0  | 536.4  | 539.9  | 534.3  | 528.8  | 518.4  | 508.0  | 497.0  | 486.6  | 484.5  |
| 37.5°  | 535.7  | 542.0  | 548.9  | 555.8  | 540.6  | 524.7  | 512.9  | 501.8  | 490.0  | 478.3  | 468.6  |
| 40°    | 545.4  | 553.7  | 557.9  | 562.0  | 546.8  | 531.6  | 517.0  | 503.2  | 488.7  | 474.1  | 464.4  |
| 42.5°  | 546.8  | 551.6  | 559.3  | 566.9  | 545.4  | 523.3  | 510.1  | 496.3  | 483.1  | 469.3  | 459.6  |
| 45°    | 540.6  | 543.3  | 550.3  | 557.2  | 532.3  | 506.7  | 494.9  | 482.4  | 470.7  | 458.2  | 449.9  |
| 47.5°  | 531.6  | 533.0  | 538.5  | 543.3  | 517.0  | 490.0  | 479.0  | 467.9  | 456.1  | 445.1  | 436.8  |
| 50°    | 519.1  | 518.4  | 522.6  | 526.0  | 499.0  | 472.1  | 461.0  | 450.6  | 439.5  | 428.4  | 421.5  |
| 52.5°  | 503.2  | 501.8  | 506.0  | 509.4  | 481.0  | 452.7  | 443.0  | 434.0  | 424.3  | 414.6  | 409.1  |
| 55°    | 485.2  | 483.1  | 486.6  | 490.0  | 462.4  | 434.0  | 425.7  | 416.7  | 408.4  | 399.4  | 394.5  |
| 57.5°  | 478.3  | 473.4  | 475.5  | 477.6  | 446.4  | 415.3  | 407.0  | 398.7  | 390.4  | 382.1  | 378.6  |
| 60°    | 467.2  | 462.4  | 464.4  | 465.8  | 432.6  | 398.7  | 391.1  | 382.8  | 375.1  | 366.8  | 363.4  |
| 62.5°  | 435.4  | 431.9  | 434.7  | 437.4  | 407.7  | 377.2  | 370.3  | 364.1  | 357.2  | 350.2  | 345.4  |
| 65°    | 389.7  | 386.9  | 392.5  | 398.0  | 372.4  | 346.8  | 342.6  | 338.5  | 333.6  | 329.5  | 324.6  |
| 67.5°  | 349.5  | 346.8  | 352.3  | 357.8  | 339.2  | 320.5  | 316.3  | 312.2  | 308.0  | 303.9  | 301.1  |
| 70°    | 315.6  | 313.5  | 318.4  | 323.2  | 307.3  | 291.4  | 287.2  | 283.8  | 279.6  | 275.5  | 273.4  |
| 72.5°  | 277.6  | 274.8  | 281.0  | 286.6  | 273.4  | 259.6  | 256.1  | 251.9  | 248.5  | 244.3  | 242.9  |
| 75°    | 236.7  | 233.9  | 239.5  | 244.3  | 235.3  | 225.6  | 222.2  | 218.7  | 215.3  | 211.8  | 211.1  |
| 77.5°  | 195.2  | 191.7  | 197.3  | 202.1  | 196.6  | 190.3  | 187.6  | 184.1  | 181.3  | 177.9  | 177.9  |
| 80°    | 152.3  | 148.1  | 152.3  | 155.7  | 153.7  | 151.6  | 149.5  | 146.7  | 144.7  | 141.9  | 142.6  |
| 82.5°  | 108.0  | 103.8  | 105.9  | 108.0  | 109.4  | 110.7  | 110.7  | 110.7  | 110.7  | 110.7  | 110.7  |
| 85°    | 64.4   | 60.2   | 60.9   | 61.6   | 63.7   | 65.8   | 66.4   | 67.1   | 67.8   | 68.5   | 69.2   |
| 87.5°  | 16.6   | 14.5   | 13.2   | 11.1   | 13.2   | 14.5   | 15.9   | 16.6   | 18.0   | 18.7   | 18.7   |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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CATALOG NUMBER: MSA-SA3D-727-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    |

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CATALOG NUMBER: MSA-SA3D-727-U-SLR

**CANDELA DISTRIBUTION (continued):**

|        | 110°   | 112.5° | 115°   | 117.5° | 120°   | 122.5° | 125°   | 127.5° | 130°   | 132.5° | 135°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 |
| 2.5°   | 1475.0 | 1450.1 | 1425.8 | 1441.1 | 1455.6 | 1470.8 | 1485.4 | 1486.1 | 1486.1 | 1486.8 | 1486.8 |
| 5°     | 1585.0 | 1585.7 | 1586.4 | 1571.9 | 1558.0 | 1543.5 | 1529.0 | 1521.4 | 1513.7 | 1505.4 | 1497.8 |
| 7.5°   | 1416.2 | 1414.8 | 1412.7 | 1398.9 | 1385.0 | 1371.2 | 1357.3 | 1324.1 | 1290.2 | 1257.0 | 1223.0 |
| 10°    | 1176.7 | 1153.8 | 1130.3 | 1124.8 | 1119.9 | 1114.4 | 1108.8 | 1099.8 | 1091.5 | 1082.5 | 1073.5 |
| 12.5°  | 1001.6 | 998.8  | 996.0  | 981.5  | 966.9  | 951.7  | 937.2  | 937.2  | 937.2  | 937.2  | 937.2  |
| 15°    | 834.7  | 822.3  | 809.1  | 802.2  | 794.6  | 787.7  | 780.1  | 776.6  | 773.1  | 769.7  | 766.2  |
| 17.5°  | 693.5  | 681.8  | 669.3  | 667.9  | 666.5  | 665.2  | 663.8  | 660.3  | 656.9  | 653.4  | 649.9  |
| 20°    | 596.6  | 585.6  | 574.5  | 578.6  | 582.8  | 586.3  | 590.4  | 586.9  | 583.5  | 579.3  | 575.9  |
| 22.5°  | 560.6  | 554.4  | 547.5  | 544.0  | 540.6  | 536.4  | 533.0  | 533.0  | 533.7  | 533.7  | 533.7  |
| 25°    | 577.3  | 555.8  | 534.3  | 524.0  | 513.6  | 502.5  | 492.1  | 488.0  | 484.5  | 480.4  | 476.2  |
| 27.5°  | 611.9  | 580.7  | 550.3  | 532.3  | 514.3  | 496.3  | 478.3  | 470.7  | 462.4  | 454.7  | 446.4  |
| 30°    | 591.8  | 571.7  | 551.0  | 530.2  | 509.4  | 488.7  | 467.9  | 458.2  | 448.5  | 438.1  | 428.4  |
| 32.5°  | 562.0  | 557.9  | 554.4  | 535.0  | 515.7  | 495.6  | 476.2  | 472.1  | 468.6  | 464.4  | 460.3  |
| 35°    | 481.7  | 479.7  | 476.9  | 472.1  | 467.2  | 462.4  | 457.5  | 452.0  | 446.4  | 440.9  | 435.4  |
| 37.5°  | 459.6  | 449.9  | 440.2  | 438.1  | 436.1  | 434.0  | 431.9  | 429.8  | 427.8  | 425.0  | 422.9  |
| 40°    | 454.7  | 445.1  | 435.4  | 431.9  | 428.4  | 424.3  | 420.8  | 421.5  | 422.9  | 423.6  | 424.3  |
| 42.5°  | 449.2  | 439.5  | 429.1  | 426.4  | 423.6  | 420.8  | 418.1  | 418.8  | 420.1  | 420.8  | 421.5  |
| 45°    | 442.3  | 434.0  | 425.7  | 420.8  | 416.7  | 411.8  | 407.0  | 411.1  | 415.3  | 418.8  | 422.9  |
| 47.5°  | 428.4  | 419.4  | 411.1  | 408.4  | 405.6  | 402.1  | 399.4  | 403.5  | 407.7  | 411.1  | 415.3  |
| 50°    | 413.9  | 407.0  | 399.4  | 398.7  | 398.0  | 396.6  | 395.9  | 398.7  | 401.5  | 404.2  | 407.0  |
| 52.5°  | 402.8  | 397.3  | 391.1  | 391.1  | 390.4  | 390.4  | 389.7  | 392.5  | 395.2  | 397.3  | 400.1  |
| 55°    | 390.4  | 385.5  | 380.7  | 381.4  | 382.8  | 383.5  | 384.1  | 386.9  | 390.4  | 393.1  | 395.9  |
| 57.5°  | 374.5  | 371.0  | 366.8  | 369.6  | 371.7  | 374.5  | 376.5  | 378.6  | 381.4  | 383.5  | 385.5  |
| 60°    | 359.2  | 355.8  | 351.6  | 354.4  | 357.8  | 360.6  | 363.4  | 365.5  | 367.5  | 369.6  | 371.7  |
| 62.5°  | 340.5  | 335.0  | 330.2  | 334.3  | 337.8  | 341.9  | 345.4  | 346.8  | 348.8  | 350.2  | 351.6  |
| 65°    | 320.5  | 315.6  | 310.8  | 313.5  | 316.3  | 318.4  | 321.2  | 323.2  | 325.3  | 327.4  | 329.5  |
| 67.5°  | 297.6  | 294.9  | 291.4  | 293.5  | 295.6  | 297.6  | 299.7  | 300.4  | 300.4  | 301.1  | 301.1  |
| 70°    | 270.6  | 268.6  | 265.8  | 267.2  | 269.2  | 270.6  | 272.0  | 272.0  | 272.0  | 271.3  | 271.3  |
| 72.5°  | 242.3  | 240.9  | 239.5  | 240.2  | 241.6  | 242.3  | 242.9  | 242.3  | 241.6  | 240.9  | 240.2  |
| 75°    | 210.4  | 209.7  | 209.0  | 209.7  | 211.1  | 211.8  | 212.5  | 211.8  | 210.4  | 209.7  | 208.3  |
| 77.5°  | 178.6  | 178.6  | 178.6  | 178.6  | 179.3  | 179.3  | 179.3  | 177.9  | 176.5  | 175.1  | 173.7  |
| 80°    | 143.3  | 144.0  | 144.7  | 144.7  | 144.7  | 144.7  | 144.7  | 143.3  | 141.9  | 139.8  | 138.4  |
| 82.5°  | 110.7  | 110.7  | 110.7  | 110.7  | 111.4  | 111.4  | 111.4  | 108.0  | 105.2  | 101.7  | 98.3   |
| 85°    | 69.2   | 69.9   | 69.9   | 70.6   | 71.3   | 71.3   | 72.0   | 67.1   | 63.0   | 58.1   | 53.3   |
| 87.5°  | 18.7   | 18.7   | 18.7   | 18.7   | 18.7   | 18.0   | 18.0   | 13.8   | 9.0    | 4.8    | 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    |



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**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  |

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**CANDELA DISTRIBUTION (continued):**

|        | 137.5° | 140°   | 142.5° | 145°   | 147.5° | 150°   | 152.5° | 155°   | 157.5° | 160°   | 162.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 |
| 2.5°   | 1490.9 | 1495.1 | 1498.5 | 1502.7 | 1503.4 | 1504.1 | 1504.1 | 1504.8 | 1490.2 | 1475.7 | 1460.5 |
| 5°     | 1508.2 | 1517.9 | 1528.3 | 1538.0 | 1535.9 | 1533.8 | 1531.7 | 1529.7 | 1525.5 | 1522.1 | 1517.9 |
| 7.5°   | 1215.4 | 1208.5 | 1200.9 | 1193.3 | 1199.5 | 1205.7 | 1212.0 | 1218.2 | 1221.0 | 1223.7 | 1225.8 |
| 10°    | 1056.2 | 1038.9 | 1021.6 | 1004.3 | 994.6  | 984.2  | 974.6  | 964.2  | 962.8  | 962.1  | 960.7  |
| 12.5°  | 919.2  | 900.5  | 882.5  | 863.8  | 858.3  | 852.0  | 846.5  | 840.3  | 845.8  | 851.4  | 856.2  |
| 15°    | 758.6  | 751.7  | 744.1  | 736.5  | 742.7  | 748.9  | 755.1  | 761.4  | 766.9  | 771.8  | 777.3  |
| 17.5°  | 646.5  | 643.7  | 640.2  | 636.8  | 642.3  | 648.6  | 654.1  | 659.6  | 672.1  | 684.5  | 697.0  |
| 20°    | 573.1  | 571.0  | 568.3  | 565.5  | 563.4  | 560.6  | 558.6  | 555.8  | 573.8  | 591.1  | 609.1  |
| 22.5°  | 529.5  | 525.3  | 521.2  | 517.0  | 517.7  | 518.4  | 518.4  | 519.1  | 533.7  | 548.9  | 563.4  |
| 25°    | 474.8  | 473.4  | 472.1  | 470.7  | 474.8  | 479.0  | 482.4  | 486.6  | 499.7  | 512.9  | 525.3  |
| 27.5°  | 447.1  | 447.8  | 448.5  | 449.2  | 454.7  | 461.0  | 466.5  | 472.1  | 481.0  | 490.0  | 499.0  |
| 30°    | 431.9  | 436.1  | 439.5  | 443.0  | 445.1  | 447.1  | 449.2  | 451.3  | 460.3  | 468.6  | 477.6  |
| 32.5°  | 454.7  | 449.2  | 443.0  | 437.4  | 440.2  | 443.7  | 446.4  | 449.2  | 457.5  | 465.8  | 474.1  |
| 35°    | 433.3  | 430.5  | 428.4  | 425.7  | 429.1  | 432.6  | 435.4  | 438.8  | 446.4  | 453.4  | 461.0  |
| 37.5°  | 422.2  | 421.5  | 420.8  | 420.1  | 422.2  | 424.3  | 425.7  | 427.8  | 434.7  | 441.6  | 447.8  |
| 40°    | 421.5  | 418.1  | 415.3  | 411.8  | 413.9  | 416.0  | 417.4  | 419.4  | 427.8  | 436.1  | 444.4  |
| 42.5°  | 417.4  | 413.2  | 408.4  | 404.2  | 406.3  | 409.1  | 411.1  | 413.2  | 422.2  | 430.5  | 439.5  |
| 45°    | 416.7  | 410.4  | 403.5  | 397.3  | 400.1  | 402.8  | 405.6  | 408.4  | 415.3  | 422.2  | 428.4  |
| 47.5°  | 409.1  | 402.8  | 396.6  | 390.4  | 391.8  | 393.1  | 393.8  | 395.2  | 401.5  | 407.0  | 413.2  |
| 50°    | 402.8  | 398.0  | 393.8  | 389.0  | 386.9  | 385.5  | 383.5  | 381.4  | 386.2  | 391.1  | 395.9  |
| 52.5°  | 395.2  | 390.4  | 384.8  | 380.0  | 377.2  | 374.5  | 371.7  | 368.9  | 373.1  | 376.5  | 380.7  |
| 55°    | 390.4  | 384.1  | 378.6  | 372.4  | 368.9  | 365.5  | 362.0  | 358.5  | 361.3  | 363.4  | 366.2  |
| 57.5°  | 380.0  | 374.5  | 368.2  | 362.7  | 358.5  | 354.4  | 349.5  | 345.4  | 346.8  | 348.2  | 349.5  |
| 60°    | 366.2  | 359.9  | 354.4  | 348.2  | 343.3  | 338.5  | 332.9  | 328.1  | 328.8  | 330.2  | 330.9  |
| 62.5°  | 346.1  | 340.5  | 334.3  | 328.8  | 323.2  | 318.4  | 312.9  | 307.3  | 308.7  | 309.4  | 310.8  |
| 65°    | 323.9  | 317.7  | 312.2  | 305.9  | 301.1  | 296.2  | 290.7  | 285.9  | 287.2  | 288.6  | 289.3  |
| 67.5°  | 296.9  | 292.1  | 287.9  | 283.1  | 278.9  | 274.1  | 269.9  | 265.1  | 265.8  | 266.5  | 267.2  |
| 70°    | 267.9  | 263.7  | 260.3  | 256.1  | 252.6  | 249.2  | 245.7  | 242.3  | 242.3  | 242.9  | 242.9  |
| 72.5°  | 236.7  | 233.3  | 229.8  | 226.3  | 222.9  | 220.1  | 216.6  | 213.2  | 214.6  | 216.0  | 216.6  |
| 75°    | 204.9  | 202.1  | 198.6  | 195.2  | 192.4  | 189.7  | 186.2  | 183.4  | 184.8  | 186.2  | 186.9  |
| 77.5°  | 171.7  | 169.6  | 166.8  | 164.7  | 162.0  | 159.2  | 155.7  | 153.0  | 154.4  | 155.7  | 156.4  |
| 80°    | 137.0  | 135.7  | 133.6  | 132.2  | 129.4  | 126.7  | 123.9  | 121.1  | 121.8  | 121.8  | 122.5  |
| 82.5°  | 99.0   | 99.7   | 99.7   | 100.4  | 98.3   | 95.5   | 93.4   | 90.7   | 90.7   | 90.7   | 90.0   |
| 85°    | 55.4   | 58.1   | 60.2   | 62.3   | 60.2   | 58.1   | 56.1   | 54.0   | 53.3   | 53.3   | 52.6   |
| 87.5°  | 2.1    | 3.5    | 5.5    | 6.9    | 6.2    | 5.5    | 4.2    | 3.5    | 4.2    | 4.8    | 4.8    |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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CATALOG NUMBER: MSA-SA3D-727-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    |

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**CANDELA DISTRIBUTION (continued):**

|        | 165°   | 167.5° | 170°   | 172.5° | 175°   | 177.5° | 180°   | 182.5° | 185°   | 187.5° | 190°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 |
| 2.5°   | 1445.9 | 1457.7 | 1469.5 | 1481.2 | 1493.0 | 1511.0 | 1529.0 | 1547.7 | 1566.4 | 1556.0 | 1544.9 |
| 5°     | 1513.7 | 1520.7 | 1528.3 | 1535.2 | 1542.1 | 1562.2 | 1581.6 | 1605.8 | 1629.3 | 1626.6 | 1623.1 |
| 7.5°   | 1228.6 | 1238.3 | 1248.0 | 1257.0 | 1266.6 | 1297.1 | 1327.6 | 1353.2 | 1378.8 | 1375.3 | 1371.2 |
| 10°    | 959.3  | 979.4  | 1000.2 | 1020.2 | 1040.3 | 1065.2 | 1089.5 | 1110.9 | 1132.4 | 1168.4 | 1203.7 |
| 12.5°  | 861.7  | 892.9  | 924.0  | 955.2  | 986.3  | 1004.3 | 1021.6 | 1049.3 | 1077.0 | 1096.4 | 1116.5 |
| 15°    | 782.1  | 811.2  | 840.3  | 869.3  | 898.4  | 899.8  | 901.2  | 930.3  | 959.3  | 975.9  | 991.9  |
| 17.5°  | 709.5  | 725.4  | 741.3  | 756.5  | 772.4  | 766.9  | 761.4  | 775.2  | 788.4  | 795.3  | 802.9  |
| 20°    | 626.4  | 637.5  | 648.6  | 659.6  | 670.7  | 678.3  | 685.2  | 693.5  | 701.2  | 694.2  | 686.6  |
| 22.5°  | 578.0  | 594.6  | 611.9  | 628.5  | 645.1  | 649.9  | 654.1  | 649.2  | 644.4  | 642.3  | 640.2  |
| 25°    | 538.5  | 558.6  | 579.3  | 599.4  | 619.5  | 629.2  | 638.9  | 643.0  | 646.5  | 638.9  | 631.2  |
| 27.5°  | 508.0  | 532.3  | 555.8  | 580.0  | 603.6  | 620.9  | 638.2  | 643.0  | 647.2  | 641.6  | 635.4  |
| 30°    | 485.9  | 512.2  | 538.5  | 564.8  | 591.1  | 617.4  | 643.0  | 665.9  | 688.0  | 685.9  | 683.9  |
| 32.5°  | 482.4  | 500.4  | 518.4  | 536.4  | 554.4  | 571.0  | 586.9  | 588.3  | 589.0  | 583.5  | 577.3  |
| 35°    | 467.9  | 479.7  | 491.4  | 503.2  | 515.0  | 525.3  | 535.0  | 533.7  | 532.3  | 526.7  | 521.2  |
| 37.5°  | 454.7  | 466.5  | 479.0  | 490.7  | 502.5  | 520.5  | 537.8  | 534.3  | 530.2  | 524.7  | 519.1  |
| 40°    | 452.7  | 465.8  | 479.0  | 491.4  | 504.6  | 521.2  | 537.8  | 534.3  | 530.9  | 524.0  | 517.0  |
| 42.5°  | 447.8  | 461.0  | 473.4  | 486.6  | 499.0  | 519.1  | 538.5  | 532.3  | 525.3  | 519.8  | 514.3  |
| 45°    | 435.4  | 447.1  | 458.9  | 470.7  | 482.4  | 503.9  | 525.3  | 517.7  | 510.1  | 508.0  | 505.3  |
| 47.5°  | 418.8  | 430.5  | 442.3  | 454.1  | 465.8  | 487.3  | 508.0  | 501.8  | 494.9  | 494.2  | 492.8  |
| 50°    | 400.8  | 411.8  | 423.6  | 434.7  | 445.7  | 467.2  | 488.0  | 482.4  | 476.9  | 477.6  | 477.6  |
| 52.5°  | 384.1  | 394.5  | 404.2  | 414.6  | 424.3  | 445.7  | 466.5  | 462.4  | 457.5  | 458.9  | 459.6  |
| 55°    | 368.2  | 376.5  | 384.8  | 393.1  | 401.5  | 422.2  | 443.0  | 436.8  | 430.5  | 432.6  | 434.7  |
| 57.5°  | 350.9  | 357.8  | 364.8  | 371.0  | 377.9  | 398.7  | 418.8  | 411.8  | 404.2  | 407.7  | 410.4  |
| 60°    | 331.5  | 337.8  | 344.0  | 349.5  | 355.8  | 374.5  | 392.5  | 386.2  | 379.3  | 384.1  | 388.3  |
| 62.5°  | 311.5  | 316.3  | 321.2  | 326.0  | 330.9  | 348.2  | 365.5  | 360.6  | 355.8  | 361.3  | 366.2  |
| 65°    | 290.7  | 294.2  | 298.3  | 301.8  | 305.2  | 321.9  | 337.8  | 334.3  | 330.9  | 335.7  | 340.5  |
| 67.5°  | 267.9  | 270.6  | 274.1  | 276.9  | 279.6  | 294.9  | 310.1  | 306.6  | 302.5  | 306.6  | 310.1  |
| 70°    | 242.9  | 245.7  | 247.8  | 250.6  | 252.6  | 266.5  | 280.3  | 275.5  | 269.9  | 274.1  | 277.6  |
| 72.5°  | 218.0  | 219.4  | 221.5  | 222.9  | 224.3  | 234.6  | 245.0  | 240.9  | 236.7  | 240.9  | 244.3  |
| 75°    | 188.3  | 189.7  | 191.0  | 192.4  | 193.8  | 202.8  | 211.1  | 206.3  | 200.7  | 204.9  | 209.0  |
| 77.5°  | 157.8  | 158.5  | 159.9  | 160.6  | 161.3  | 167.5  | 173.0  | 168.2  | 162.7  | 167.5  | 172.3  |
| 80°    | 122.5  | 123.2  | 123.9  | 123.9  | 124.6  | 126.7  | 128.7  | 125.3  | 121.1  | 127.4  | 133.6  |
| 82.5°  | 90.0   | 89.3   | 89.3   | 88.6   | 87.9   | 87.9   | 87.2   | 85.1   | 82.4   | 87.9   | 93.4   |
| 85°    | 51.9   | 51.2   | 49.8   | 49.1   | 47.8   | 45.7   | 43.6   | 42.9   | 42.2   | 47.1   | 51.9   |
| 87.5°  | 5.5    | 4.8    | 3.5    | 2.8    | 1.4    | 0.7    | 0.0    | 0.0    | 0.0    | 2.8    | 6.2    |
| 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    |

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CATALOG NUMBER: MSA-SA3D-727-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  |

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CATALOG NUMBER: MSA-SA3D-727-U-SLR

**CANDELA DISTRIBUTION (continued):**

|        | 192.5° | 195°   | 197.5° | 200°   | 202.5° | 205°   | 207.5° | 210°   | 212.5° | 215°   | 217.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 |
| 2.5°   | 1534.5 | 1523.4 | 1513.1 | 1502.7 | 1492.3 | 1481.9 | 1501.3 | 1520.7 | 1540.1 | 1559.4 | 1576.7 |
| 5°     | 1620.3 | 1616.9 | 1607.9 | 1599.6 | 1590.6 | 1581.6 | 1586.4 | 1592.0 | 1596.8 | 1601.7 | 1612.0 |
| 7.5°   | 1367.7 | 1363.6 | 1382.9 | 1401.6 | 1421.0 | 1439.7 | 1444.5 | 1448.7 | 1453.5 | 1457.7 | 1454.9 |
| 10°    | 1239.7 | 1275.0 | 1284.0 | 1292.3 | 1301.3 | 1309.6 | 1323.4 | 1337.2 | 1350.4 | 1364.2 | 1371.9 |
| 12.5°  | 1135.8 | 1155.2 | 1187.1 | 1219.6 | 1251.4 | 1283.3 | 1304.0 | 1324.8 | 1345.6 | 1366.3 | 1409.2 |
| 15°    | 1008.5 | 1024.4 | 1048.6 | 1072.8 | 1097.1 | 1121.3 | 1151.1 | 1181.5 | 1211.3 | 1241.0 | 1288.1 |
| 17.5°  | 809.8  | 816.7  | 834.7  | 852.7  | 870.0  | 888.0  | 928.2  | 967.6  | 1007.8 | 1047.2 | 1101.2 |
| 20°    | 679.7  | 672.1  | 672.1  | 672.8  | 672.8  | 672.8  | 712.9  | 752.4  | 792.5  | 832.0  | 903.3  |
| 22.5°  | 637.5  | 635.4  | 627.8  | 619.5  | 611.9  | 603.6  | 624.3  | 645.8  | 666.5  | 687.3  | 745.5  |
| 25°    | 622.9  | 615.3  | 605.6  | 595.9  | 586.3  | 576.6  | 589.7  | 602.9  | 616.0  | 629.2  | 674.9  |
| 27.5°  | 629.9  | 623.6  | 628.5  | 632.6  | 637.5  | 641.6  | 645.8  | 649.9  | 654.1  | 658.2  | 674.2  |
| 30°    | 681.8  | 679.7  | 687.3  | 694.2  | 701.8  | 708.8  | 699.1  | 690.1  | 680.4  | 670.7  | 676.2  |
| 32.5°  | 571.7  | 565.5  | 562.7  | 560.0  | 557.2  | 554.4  | 553.7  | 553.0  | 551.6  | 551.0  | 563.4  |
| 35°    | 515.7  | 510.1  | 506.0  | 501.8  | 497.0  | 492.8  | 494.9  | 496.3  | 498.4  | 499.7  | 513.6  |
| 37.5°  | 513.6  | 508.0  | 503.2  | 498.4  | 492.8  | 488.0  | 490.0  | 492.8  | 494.9  | 497.0  | 507.4  |
| 40°    | 510.1  | 503.2  | 500.4  | 497.7  | 494.9  | 492.1  | 493.5  | 494.9  | 495.6  | 497.0  | 504.6  |
| 42.5°  | 508.0  | 502.5  | 501.1  | 499.7  | 498.4  | 497.0  | 498.4  | 499.7  | 500.4  | 501.8  | 510.8  |
| 45°    | 503.2  | 500.4  | 501.8  | 503.2  | 504.6  | 506.0  | 506.0  | 506.0  | 506.0  | 506.0  | 515.7  |
| 47.5°  | 492.1  | 490.7  | 494.9  | 499.0  | 503.2  | 507.4  | 514.3  | 521.2  | 527.4  | 534.3  | 536.4  |
| 50°    | 478.3  | 478.3  | 485.2  | 492.1  | 498.4  | 505.3  | 521.9  | 537.8  | 554.4  | 570.3  | 560.0  |
| 52.5°  | 461.0  | 461.7  | 472.1  | 481.7  | 492.1  | 501.8  | 517.0  | 532.3  | 546.8  | 562.0  | 546.8  |
| 55°    | 436.1  | 438.1  | 451.3  | 463.7  | 476.9  | 489.4  | 501.1  | 512.9  | 524.7  | 536.4  | 520.5  |
| 57.5°  | 413.9  | 416.7  | 430.5  | 443.7  | 457.5  | 470.7  | 477.6  | 485.2  | 492.1  | 499.0  | 488.7  |
| 60°    | 393.1  | 397.3  | 415.3  | 433.3  | 450.6  | 468.6  | 463.1  | 457.5  | 451.3  | 445.7  | 445.1  |
| 62.5°  | 371.7  | 376.5  | 393.1  | 409.8  | 425.7  | 442.3  | 434.0  | 425.7  | 416.7  | 408.4  | 411.8  |
| 65°    | 344.7  | 349.5  | 357.2  | 364.8  | 371.7  | 379.3  | 378.6  | 378.6  | 377.9  | 377.2  | 384.1  |
| 67.5°  | 314.2  | 317.7  | 322.5  | 326.7  | 331.5  | 335.7  | 338.5  | 341.9  | 344.7  | 347.5  | 355.8  |
| 70°    | 281.7  | 285.2  | 290.0  | 294.2  | 299.0  | 303.2  | 306.6  | 310.1  | 312.9  | 316.3  | 324.6  |
| 72.5°  | 248.5  | 251.9  | 256.8  | 261.6  | 265.8  | 270.6  | 273.4  | 276.2  | 278.2  | 281.0  | 287.9  |
| 75°    | 213.2  | 217.3  | 222.2  | 226.3  | 231.2  | 235.3  | 237.4  | 239.5  | 241.6  | 243.6  | 249.9  |
| 77.5°  | 177.2  | 182.0  | 186.9  | 191.7  | 196.6  | 201.4  | 202.1  | 202.8  | 203.5  | 204.2  | 209.7  |
| 80°    | 139.1  | 145.4  | 150.2  | 155.0  | 159.9  | 164.7  | 164.7  | 164.7  | 164.7  | 164.7  | 167.5  |
| 82.5°  | 99.0   | 104.5  | 110.1  | 114.9  | 120.4  | 125.3  | 125.3  | 124.6  | 124.6  | 123.9  | 123.9  |
| 85°    | 56.8   | 61.6   | 65.1   | 69.2   | 72.7   | 76.1   | 76.1   | 76.1   | 75.4   | 75.4   | 74.1   |
| 87.5°  | 9.0    | 11.8   | 13.2   | 15.2   | 16.6   | 18.0   | 17.3   | 17.3   | 16.6   | 15.9   | 13.8   |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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**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    |

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**CANDELA DISTRIBUTION (continued):**

|        | 220°   | 222.5° | 225°   | 227.5° | 230°   | 232.5° | 235°   | 237.5° | 240°   | 242.5° | 245°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 |
| 2.5°   | 1594.0 | 1611.3 | 1628.6 | 1625.9 | 1623.1 | 1620.3 | 1617.6 | 1628.0 | 1637.6 | 1648.0 | 1657.7 |
| 5°     | 1621.7 | 1632.1 | 1641.8 | 1649.4 | 1657.0 | 1664.6 | 1672.3 | 1707.6 | 1742.2 | 1777.5 | 1812.1 |
| 7.5°   | 1452.1 | 1448.7 | 1445.9 | 1478.4 | 1511.7 | 1544.2 | 1576.7 | 1621.7 | 1666.7 | 1711.7 | 1756.7 |
| 10°    | 1379.5 | 1387.1 | 1394.7 | 1407.8 | 1421.7 | 1434.8 | 1448.0 | 1492.3 | 1536.6 | 1580.9 | 1625.2 |
| 12.5°  | 1451.5 | 1494.4 | 1536.6 | 1547.0 | 1558.0 | 1568.4 | 1578.8 | 1587.8 | 1596.8 | 1605.1 | 1614.1 |
| 15°    | 1335.2 | 1382.2 | 1429.3 | 1456.3 | 1483.3 | 1509.6 | 1536.6 | 1604.4 | 1671.6 | 1739.4 | 1806.5 |
| 17.5°  | 1154.5 | 1208.5 | 1261.8 | 1328.3 | 1394.7 | 1461.1 | 1527.6 | 1589.9 | 1652.2 | 1713.8 | 1776.1 |
| 20°    | 974.6  | 1045.2 | 1116.5 | 1189.1 | 1261.1 | 1333.8 | 1405.8 | 1466.7 | 1527.6 | 1587.8 | 1648.7 |
| 22.5°  | 802.9  | 861.0  | 918.5  | 1007.1 | 1095.0 | 1183.6 | 1271.5 | 1385.0 | 1497.8 | 1611.3 | 1724.2 |
| 25°    | 719.8  | 765.5  | 810.5  | 901.9  | 993.2  | 1083.9 | 1175.3 | 1322.7 | 1469.5 | 1616.9 | 1763.6 |
| 27.5°  | 690.8  | 706.7  | 722.6  | 805.7  | 888.0  | 971.1  | 1053.5 | 1212.7 | 1371.9 | 1530.4 | 1689.6 |
| 30°    | 681.8  | 687.3  | 692.8  | 757.9  | 823.0  | 888.0  | 953.1  | 1110.2 | 1268.0 | 1425.2 | 1582.3 |
| 32.5°  | 575.2  | 587.6  | 599.4  | 663.1  | 726.1  | 789.8  | 852.7  | 1011.2 | 1169.1 | 1327.6 | 1485.4 |
| 35°    | 527.4  | 541.3  | 555.1  | 617.4  | 679.7  | 741.3  | 803.6  | 970.4  | 1137.9 | 1304.7 | 1471.5 |
| 37.5°  | 517.7  | 528.1  | 538.5  | 609.1  | 679.7  | 750.3  | 820.9  | 989.8  | 1158.7 | 1327.6 | 1496.4 |
| 40°    | 512.9  | 520.5  | 528.1  | 596.6  | 665.9  | 734.4  | 802.9  | 980.1  | 1156.6 | 1333.8 | 1510.3 |
| 42.5°  | 519.1  | 528.1  | 536.4  | 598.7  | 660.3  | 722.6  | 784.2  | 967.6  | 1150.4 | 1333.8 | 1516.5 |
| 45°    | 524.7  | 534.3  | 543.3  | 601.5  | 659.6  | 717.8  | 775.9  | 971.8  | 1167.0 | 1362.9 | 1558.0 |
| 47.5°  | 537.8  | 539.9  | 541.3  | 591.8  | 641.6  | 692.2  | 742.0  | 941.3  | 1140.7 | 1339.3 | 1538.7 |
| 50°    | 548.9  | 538.5  | 527.4  | 580.0  | 631.9  | 684.5  | 736.5  | 925.4  | 1114.4 | 1302.6 | 1491.6 |
| 52.5°  | 531.6  | 515.7  | 500.4  | 557.2  | 613.9  | 670.0  | 726.8  | 915.7  | 1105.4 | 1294.3 | 1483.3 |
| 55°    | 505.3  | 489.4  | 473.4  | 530.9  | 588.3  | 645.8  | 703.2  | 891.5  | 1080.5 | 1268.7 | 1457.0 |
| 57.5°  | 479.0  | 468.6  | 458.2  | 505.3  | 553.0  | 600.1  | 647.2  | 851.4  | 1054.8 | 1259.0 | 1462.5 |
| 60°    | 444.4  | 443.0  | 442.3  | 479.0  | 516.3  | 553.0  | 589.7  | 789.8  | 989.1  | 1189.1 | 1388.5 |
| 62.5°  | 414.6  | 418.1  | 420.8  | 450.6  | 480.4  | 509.4  | 539.2  | 732.3  | 926.1  | 1119.2 | 1312.3 |
| 65°    | 391.8  | 398.7  | 405.6  | 439.5  | 473.4  | 506.7  | 540.6  | 702.5  | 864.5  | 1026.5 | 1188.4 |
| 67.5°  | 364.1  | 372.4  | 380.7  | 425.0  | 469.3  | 513.6  | 557.9  | 691.5  | 825.1  | 958.6  | 1092.2 |
| 70°    | 332.2  | 340.5  | 348.2  | 404.9  | 461.0  | 517.7  | 573.8  | 692.2  | 811.2  | 929.6  | 1047.9 |
| 72.5°  | 294.9  | 301.8  | 308.7  | 369.6  | 430.5  | 491.4  | 552.3  | 652.7  | 753.1  | 852.7  | 953.1  |
| 75°    | 256.8  | 263.0  | 269.2  | 321.9  | 374.5  | 427.1  | 479.7  | 557.2  | 634.0  | 711.5  | 788.4  |
| 77.5°  | 214.6  | 220.1  | 225.0  | 260.3  | 295.6  | 330.9  | 366.2  | 425.7  | 484.5  | 544.0  | 602.9  |
| 80°    | 170.3  | 173.0  | 175.8  | 196.6  | 216.6  | 237.4  | 257.5  | 296.9  | 336.4  | 375.1  | 414.6  |
| 82.5°  | 124.6  | 124.6  | 124.6  | 137.7  | 151.6  | 164.7  | 177.9  | 198.0  | 217.3  | 237.4  | 256.8  |
| 85°    | 72.7   | 70.6   | 69.2   | 78.2   | 87.2   | 96.2   | 105.2  | 113.5  | 121.8  | 130.1  | 138.4  |
| 87.5°  | 11.8   | 9.0    | 6.9    | 12.5   | 18.0   | 23.5   | 29.1   | 31.8   | 35.3   | 38.1   | 40.8   |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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**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  |

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CATALOG NUMBER: MSA-SA3D-727-U-SLR

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 252.5° | 255°   | 257.5° | 260°   | 262.5° | 265°    | 267.5°  | 270°    | 272.5°  |
|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0°     | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1 | 1504.1  | 1504.1  | 1504.1  | 1504.1  |
| 2.5°   | 1634.2 | 1611.3 | 1587.8 | 1564.3 | 1598.9 | 1633.5 | 1668.1 | 1702.7  | 1794.8  | 1849.4  | 1852.9  |
| 5°     | 1841.1 | 1870.2 | 1899.3 | 1928.4 | 1957.4 | 1986.5 | 2014.9 | 2043.9  | 2193.4  | 2285.5  | 2302.8  |
| 7.5°   | 1804.5 | 1852.9 | 1900.7 | 1948.4 | 2030.8 | 2113.2 | 2195.5 | 2277.9  | 2404.6  | 2495.9  | 2556.1  |
| 10°    | 1684.7 | 1744.2 | 1803.8 | 1863.3 | 1960.9 | 2059.2 | 2156.8 | 2254.4  | 2388.6  | 2509.1  | 2566.5  |
| 12.5°  | 1708.9 | 1803.8 | 1897.9 | 1992.7 | 2077.2 | 2162.3 | 2246.7 | 2331.2  | 2423.9  | 2469.6  | 2574.1  |
| 15°    | 1872.3 | 1938.0 | 2003.8 | 2069.6 | 2196.9 | 2323.6 | 2450.9 | 2577.6  | 2630.2  | 2734.7  | 2828.8  |
| 17.5°  | 1897.2 | 2017.6 | 2138.8 | 2259.2 | 2414.9 | 2570.7 | 2726.4 | 2882.1  | 2979.7  | 3114.7  | 3228.2  |
| 20°    | 1819.7 | 1990.0 | 2160.9 | 2331.2 | 2531.9 | 2733.3 | 2934.1 | 3134.8  | 3258.7  | 3372.2  | 3548.0  |
| 22.5°  | 1912.4 | 2100.7 | 2288.3 | 2476.5 | 2743.0 | 3008.8 | 3275.3 | 3541.1  | 3799.9  | 4053.3  | 4172.3  |
| 25°    | 2014.9 | 2266.8 | 2518.1 | 2769.3 | 3102.3 | 3434.5 | 3767.4 | 4099.6  | 4432.6  | 4670.0  | 4807.0  |
| 27.5°  | 1942.9 | 2195.5 | 2448.9 | 2701.5 | 3113.3 | 3525.9 | 3937.7 | 4349.5  | 4706.0  | 4991.8  | 5109.5  |
| 30°    | 1892.4 | 2202.4 | 2512.5 | 2822.6 | 3305.7 | 3788.9 | 4272.0 | 4755.1  | 5084.6  | 5403.7  | 5576.7  |
| 32.5°  | 1883.4 | 2281.4 | 2678.6 | 3076.6 | 3639.4 | 4201.4 | 4764.1 | 5326.2  | 5544.9  | 5828.0  | 6061.2  |
| 35°    | 1908.3 | 2345.7 | 2782.5 | 3219.2 | 3864.3 | 4509.4 | 5153.8 | 5798.9  | 6109.7  | 6390.0  | 6594.2  |
| 37.5°  | 1984.4 | 2472.4 | 2959.7 | 3447.6 | 4224.9 | 5002.9 | 5780.2 | 6557.5  | 7078.7  | 7591.6  | 7682.9  |
| 40°    | 2027.3 | 2545.1 | 3062.1 | 3579.1 | 4483.1 | 5387.1 | 6291.0 | 7195.0  | 7794.4  | 8357.1  | 8395.2  |
| 42.5°  | 2077.9 | 2639.2 | 3199.8 | 3761.2 | 4763.4 | 5766.4 | 6768.6 | 7770.9  | 8512.8  | 9117.8  | 9135.8  |
| 45°    | 2136.0 | 2713.3 | 3291.2 | 3868.5 | 4915.0 | 5960.9 | 7007.4 | 8053.3  | 8950.3  | 9685.4  | 9506.1  |
| 47.5°  | 2158.8 | 2779.7 | 3399.9 | 4020.1 | 5135.8 | 6250.9 | 7366.6 | 8481.7  | 9286.7  | 9955.3  | 9783.6  |
| 50°    | 2167.8 | 2844.8 | 3521.0 | 4197.2 | 5353.1 | 6509.7 | 7665.6 | 8821.5  | 9640.4  | 10292.4 | 10029.4 |
| 52.5°  | 2223.9 | 2964.5 | 3705.1 | 4445.7 | 5650.1 | 6854.4 | 8058.8 | 9263.1  | 10068.8 | 10695.2 | 10368.5 |
| 55°    | 2299.3 | 3141.7 | 3983.4 | 4825.7 | 6072.3 | 7318.2 | 8564.8 | 9810.6  | 10619.1 | 11201.9 | 10797.0 |
| 57.5°  | 2369.3 | 3276.7 | 4183.4 | 5090.1 | 6381.7 | 7674.0 | 8965.5 | 10257.1 | 11075.9 | 11652.5 | 11260.0 |
| 60°    | 2335.3 | 3282.2 | 4229.1 | 5176.0 | 6445.4 | 7714.1 | 8983.5 | 10252.2 | 11181.8 | 11873.3 | 11672.5 |
| 62.5°  | 2232.9 | 3153.5 | 4073.3 | 4993.9 | 6199.0 | 7403.3 | 8608.4 | 9812.7  | 10900.8 | 11787.4 | 11778.4 |
| 65°    | 2035.6 | 2882.8 | 3729.3 | 4576.5 | 5691.6 | 6807.4 | 7922.4 | 9037.5  | 10320.1 | 11397.1 | 11467.0 |
| 67.5°  | 1795.5 | 2498.7 | 3201.9 | 3905.2 | 4955.2 | 6005.2 | 7055.2 | 8105.2  | 9476.3  | 10664.8 | 10725.0 |
| 70°    | 1562.9 | 2078.5 | 2593.5 | 3108.5 | 4030.4 | 4952.4 | 5873.6 | 6795.6  | 8180.6  | 9382.9  | 9438.3  |
| 72.5°  | 1290.2 | 1627.3 | 1963.7 | 2300.7 | 3047.6 | 3794.4 | 4540.6 | 5287.4  | 6503.5  | 7428.2  | 7740.4  |
| 75°    | 988.4  | 1188.4 | 1388.5 | 1588.5 | 2192.8 | 2797.0 | 3400.6 | 4004.8  | 4813.3  | 5495.7  | 5847.3  |
| 77.5°  | 706.7  | 810.5  | 914.3  | 1018.2 | 1531.7 | 2045.3 | 2558.2 | 3071.8  | 3496.8  | 3883.7  | 4121.1  |
| 80°    | 463.7  | 512.2  | 561.3  | 609.8  | 1036.9 | 1463.9 | 1890.3 | 2317.3  | 2576.2  | 2783.9  | 2903.6  |
| 82.5°  | 281.0  | 305.2  | 328.8  | 353.0  | 699.1  | 1045.2 | 1390.5 | 1736.6  | 1884.7  | 1983.7  | 2090.3  |
| 85°    | 151.6  | 164.7  | 177.9  | 191.0  | 413.2  | 634.7  | 856.9  | 1078.4  | 1092.9  | 1104.7  | 1263.2  |
| 87.5°  | 44.3   | 48.5   | 51.9   | 55.4   | 91.4   | 128.0  | 164.0  | 200.0   | 124.6   | 77.5    | 159.2   |
| 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: P368064

CATALOG NUMBER: MSA-SA3D-727-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    |

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CATALOG NUMBER: MSA-SA3D-727-U-SLR

**CANDELA DISTRIBUTION (continued):**

|        | 275°    | 277.5°  | 280°    | 282.5°  | 285°    | 287.5°  | 290°   | 292.5° | 295°   | 297.5°  | 300°    |
|--------|---------|---------|---------|---------|---------|---------|--------|--------|--------|---------|---------|
| 0°     | 1504.1  | 1504.1  | 1504.1  | 1504.1  | 1504.1  | 1504.1  | 1504.1 | 1504.1 | 1504.1 | 1504.1  | 1504.1  |
| 2.5°   | 1832.8  | 1823.8  | 1814.8  | 1805.1  | 1796.1  | 1758.1  | 1720.7 | 1682.6 | 1644.6 | 1681.3  | 1717.2  |
| 5°     | 2282.7  | 2310.4  | 2337.4  | 2365.1  | 2392.8  | 2394.9  | 2396.2 | 2398.3 | 2399.7 | 2406.6  | 2413.6  |
| 7.5°   | 2606.7  | 2655.8  | 2704.3  | 2753.4  | 2802.5  | 2840.6  | 2878.7 | 2917.4 | 2955.5 | 2920.9  | 2886.3  |
| 10°    | 2634.4  | 2738.2  | 2842.0  | 2945.8  | 3049.6  | 3068.3  | 3086.3 | 3105.0 | 3123.7 | 3148.6  | 3172.9  |
| 12.5°  | 2662.0  | 2788.7  | 2914.7  | 3041.3  | 3168.0  | 3223.4  | 3278.1 | 3333.4 | 3388.1 | 3415.1  | 3441.4  |
| 15°    | 2954.8  | 3029.6  | 3103.6  | 3178.4  | 3252.4  | 3290.5  | 3327.9 | 3366.0 | 3404.0 | 3426.9  | 3449.0  |
| 17.5°  | 3331.4  | 3359.0  | 3386.0  | 3413.7  | 3441.4  | 3467.0  | 3492.6 | 3518.2 | 3543.8 | 3548.0  | 3552.2  |
| 20°    | 3674.7  | 3680.2  | 3685.0  | 3690.6  | 3695.4  | 3641.4  | 3588.1 | 3534.2 | 3480.2 | 3489.9  | 3498.9  |
| 22.5°  | 4189.6  | 4159.2  | 4129.4  | 4099.0  | 4069.2  | 3967.4  | 3866.4 | 3764.6 | 3663.6 | 3620.0  | 3577.1  |
| 25°    | 4964.8  | 4887.3  | 4809.8  | 4732.3  | 4654.8  | 4492.8  | 4331.5 | 4169.6 | 4008.3 | 3913.5  | 3819.3  |
| 27.5°  | 5214.7  | 5045.8  | 4877.6  | 4708.7  | 4539.9  | 4417.3  | 4295.5 | 4173.0 | 4051.2 | 3901.0  | 3750.8  |
| 30°    | 5720.0  | 5453.5  | 5187.7  | 4921.2  | 4654.8  | 4536.4  | 4418.0 | 4299.0 | 4180.6 | 4027.0  | 3874.0  |
| 32.5°  | 6167.8  | 5891.0  | 5614.1  | 5336.5  | 5059.7  | 4835.4  | 4611.2 | 4386.9 | 4162.6 | 4058.8  | 3955.0  |
| 35°    | 6686.2  | 6338.1  | 5989.9  | 5641.8  | 5293.6  | 5101.2  | 4909.5 | 4717.1 | 4525.3 | 4368.2  | 4211.8  |
| 37.5°  | 7441.4  | 7071.1  | 6700.8  | 6329.8  | 5959.5  | 5699.2  | 5439.7 | 5179.4 | 4919.9 | 4833.3  | 4747.5  |
| 40°    | 8161.2  | 7723.8  | 7287.0  | 6849.6  | 6412.8  | 6213.5  | 6014.2 | 5814.1 | 5614.8 | 5468.7  | 5322.7  |
| 42.5°  | 8764.1  | 8331.5  | 7899.6  | 7467.0  | 7035.1  | 6889.7  | 6745.1 | 6599.7 | 6455.1 | 6334.6  | 6214.2  |
| 45°    | 8971.1  | 8618.1  | 8265.7  | 7912.7  | 7559.7  | 7508.5  | 7458.0 | 7406.8 | 7356.3 | 7267.0  | 7177.7  |
| 47.5°  | 9304.0  | 8944.1  | 8584.8  | 8224.9  | 7865.0  | 7883.7  | 7902.4 | 7921.7 | 7940.4 | 7945.3  | 7949.4  |
| 50°    | 9499.9  | 9157.9  | 8816.7  | 8474.8  | 8133.5  | 8224.2  | 8314.2 | 8404.9 | 8495.5 | 8701.1  | 8906.0  |
| 52.5°  | 9785.7  | 9450.0  | 9115.0  | 8779.3  | 8443.6  | 8597.3  | 8750.3 | 8903.9 | 9056.9 | 9344.8  | 9632.8  |
| 55°    | 10144.3 | 9823.1  | 9502.6  | 9181.5  | 8861.0  | 9010.5  | 9159.3 | 9308.8 | 9457.6 | 9778.1  | 10098.6 |
| 57.5°  | 10619.8 | 10275.8 | 9932.5  | 9588.5  | 9245.1  | 9382.9  | 9519.9 | 9657.7 | 9794.7 | 10099.3 | 10403.8 |
| 60°    | 11161.0 | 10787.3 | 10413.5 | 10039.1 | 9665.3  | 9703.4  | 9740.7 | 9778.8 | 9816.2 | 10146.3 | 10475.8 |
| 62.5°  | 11426.8 | 11080.7 | 10735.4 | 10389.3 | 10043.2 | 9937.3  | 9831.4 | 9724.8 | 9618.9 | 9914.5  | 10209.3 |
| 65°    | 11196.3 | 10958.2 | 10720.8 | 10482.7 | 10244.6 | 10057.7 | 9871.6 | 9684.7 | 9497.8 | 9682.6  | 9866.7  |
| 67.5°  | 10462.7 | 10327.7 | 10193.4 | 10058.4 | 9923.5  | 9609.9  | 9296.4 | 8982.1 | 8668.6 | 8681.0  | 8692.8  |
| 70°    | 9273.5  | 9237.5  | 9202.2  | 9166.2  | 9130.2  | 8658.9  | 8188.2 | 7716.9 | 7245.5 | 7173.5  | 7101.5  |
| 72.5°  | 7766.7  | 7790.2  | 7813.1  | 7836.6  | 7860.1  | 7353.5  | 6846.8 | 6340.2 | 5833.5 | 5713.8  | 5594.0  |
| 75°    | 6015.5  | 6145.7  | 6275.8  | 6406.6  | 6536.7  | 6052.2  | 5567.7 | 5082.5 | 4598.0 | 4450.6  | 4303.1  |
| 77.5°  | 4250.5  | 4493.5  | 4735.7  | 4978.7  | 5221.6  | 4783.5  | 4346.1 | 3907.9 | 3469.8 | 3374.3  | 3278.8  |
| 80°    | 2963.8  | 3082.9  | 3201.9  | 3321.0  | 3440.0  | 3219.9  | 2999.8 | 2779.7 | 2559.6 | 2585.9  | 2611.5  |
| 82.5°  | 2158.8  | 2186.5  | 2213.5  | 2241.2  | 2268.9  | 2178.9  | 2088.9 | 1998.3 | 1908.3 | 1976.8  | 2045.3  |
| 85°    | 1382.9  | 1481.9  | 1580.2  | 1679.2  | 1777.5  | 1677.8  | 1578.1 | 1477.8 | 1378.1 | 1423.8  | 1469.5  |
| 87.5°  | 309.4   | 489.4   | 669.3   | 850.0   | 1029.9  | 933.0   | 836.8  | 739.9  | 643.0  | 599.4   | 556.5   |
| 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     |



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**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  |

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**CANDELA DISTRIBUTION (continued):**

|        | 302.5°  | 305°    | 307.5°  | 310°    | 312.5°  | 315°    | 317.5°  | 320°    | 322.5°  | 325°    | 327.5°  |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°     | 1504.1  | 1504.1  | 1504.1  | 1504.1  | 1504.1  | 1504.1  | 1504.1  | 1504.1  | 1504.1  | 1504.1  | 1504.1  |
| 2.5°   | 1753.9  | 1790.6  | 1779.5  | 1769.2  | 1758.1  | 1747.0  | 1767.1  | 1787.2  | 1807.9  | 1828.0  | 1821.1  |
| 5°     | 2421.2  | 2428.1  | 2362.3  | 2297.3  | 2231.5  | 2165.8  | 2206.6  | 2247.4  | 2288.3  | 2329.1  | 2314.6  |
| 7.5°   | 2851.7  | 2817.1  | 2779.0  | 2740.9  | 2702.2  | 2664.1  | 2655.8  | 2647.5  | 2638.5  | 2630.2  | 2619.1  |
| 10°    | 3197.8  | 3222.0  | 3197.1  | 3172.9  | 3147.9  | 3123.0  | 3064.9  | 3006.7  | 2947.9  | 2889.8  | 2865.5  |
| 12.5°  | 3468.4  | 3495.4  | 3501.6  | 3507.2  | 3513.4  | 3519.6  | 3454.6  | 3390.2  | 3325.1  | 3260.1  | 3201.2  |
| 15°    | 3471.9  | 3494.7  | 3514.8  | 3534.2  | 3554.2  | 3573.6  | 3533.5  | 3494.0  | 3453.9  | 3413.7  | 3395.0  |
| 17.5°  | 3557.0  | 3561.2  | 3544.5  | 3528.6  | 3512.0  | 3496.1  | 3480.2  | 3464.9  | 3449.0  | 3433.8  | 3404.0  |
| 20°    | 3508.5  | 3518.2  | 3516.2  | 3514.1  | 3511.3  | 3509.2  | 3510.6  | 3511.3  | 3512.7  | 3513.4  | 3496.8  |
| 22.5°  | 3533.5  | 3489.9  | 3498.9  | 3507.2  | 3516.2  | 3524.5  | 3549.4  | 3574.3  | 3599.9  | 3624.8  | 3691.3  |
| 25°    | 3724.5  | 3629.7  | 3615.1  | 3601.3  | 3586.8  | 3572.9  | 3638.0  | 3702.4  | 3767.4  | 3832.5  | 3940.5  |
| 27.5°  | 3599.9  | 3449.7  | 3416.5  | 3383.3  | 3350.0  | 3316.8  | 3415.8  | 3514.1  | 3613.1  | 3712.0  | 3822.1  |
| 30°    | 3720.3  | 3567.4  | 3494.0  | 3420.6  | 3346.6  | 3273.2  | 3368.0  | 3462.2  | 3557.0  | 3651.1  | 3773.0  |
| 32.5°  | 3851.2  | 3747.3  | 3698.2  | 3649.7  | 3600.6  | 3552.2  | 3559.8  | 3567.4  | 3575.0  | 3582.6  | 3754.3  |
| 35°    | 4054.7  | 3897.5  | 3849.1  | 3800.6  | 3752.2  | 3703.7  | 3784.7  | 3865.0  | 3946.0  | 4026.3  | 4171.6  |
| 37.5°  | 4661.0  | 4574.5  | 4487.3  | 4400.0  | 4312.1  | 4224.9  | 4272.7  | 4320.4  | 4368.2  | 4416.0  | 4553.0  |
| 40°    | 5176.6  | 5030.6  | 5016.1  | 5002.2  | 4987.7  | 4973.2  | 4977.3  | 4980.8  | 4984.9  | 4989.1  | 5106.0  |
| 42.5°  | 6093.1  | 5972.6  | 5898.6  | 5824.5  | 5750.4  | 5676.4  | 5671.5  | 5666.7  | 5661.2  | 5656.3  | 5744.2  |
| 45°    | 7087.7  | 6998.4  | 6943.0  | 6887.7  | 6831.6  | 6776.2  | 6688.3  | 6600.4  | 6511.8  | 6423.9  | 6500.7  |
| 47.5°  | 7954.3  | 7959.1  | 8059.5  | 8159.2  | 8259.5  | 8359.9  | 8209.7  | 8059.5  | 7909.3  | 7759.1  | 7660.1  |
| 50°    | 9111.6  | 9316.4  | 9340.7  | 9364.2  | 9388.4  | 9412.7  | 9157.9  | 8903.9  | 8649.2  | 8394.5  | 8290.7  |
| 52.5°  | 9921.4  | 10209.3 | 10171.9 | 10135.3 | 10097.9 | 10060.5 | 9913.1  | 9766.3  | 9618.9  | 9471.5  | 9245.1  |
| 55°    | 10419.7 | 10740.2 | 10711.8 | 10684.1 | 10655.8 | 10627.4 | 10520.1 | 10412.8 | 10305.5 | 10198.2 | 9949.8  |
| 57.5°  | 10708.4 | 11012.9 | 11021.2 | 11029.5 | 11037.8 | 11046.1 | 11017.8 | 10989.4 | 10961.0 | 10932.6 | 10609.4 |
| 60°    | 10806.0 | 11136.1 | 11139.6 | 11142.4 | 11145.8 | 11148.6 | 11103.6 | 11058.6 | 11012.9 | 10967.9 | 10756.8 |
| 62.5°  | 10504.9 | 10799.7 | 10812.9 | 10825.3 | 10838.5 | 10851.6 | 10820.5 | 10789.4 | 10758.2 | 10727.1 | 10570.6 |
| 65°    | 10051.5 | 10236.3 | 10239.8 | 10242.5 | 10246.0 | 10249.5 | 10170.6 | 10092.3 | 10013.4 | 9934.5  | 9897.2  |
| 67.5°  | 8705.3  | 8717.7  | 8791.1  | 8864.5  | 8937.8  | 9011.2  | 9017.4  | 9023.7  | 9030.6  | 9036.8  | 8982.8  |
| 70°    | 7029.6  | 6957.6  | 7037.2  | 7116.8  | 7196.4  | 7276.0  | 7309.9  | 7343.8  | 7378.4  | 7412.3  | 7437.2  |
| 72.5°  | 5473.6  | 5353.8  | 5412.7  | 5471.5  | 5531.0  | 5589.9  | 5539.3  | 5488.8  | 5438.3  | 5387.8  | 5547.6  |
| 75°    | 4155.7  | 4008.3  | 4000.7  | 3993.7  | 3986.1  | 3979.2  | 3953.6  | 3928.0  | 3901.7  | 3876.1  | 4025.6  |
| 77.5°  | 3182.5  | 3087.0  | 3091.9  | 3096.0  | 3100.9  | 3105.0  | 3078.7  | 3053.1  | 3026.8  | 3000.5  | 3058.0  |
| 80°    | 2637.8  | 2663.4  | 2664.1  | 2664.8  | 2665.5  | 2666.2  | 2641.3  | 2617.0  | 2592.1  | 2567.2  | 2525.7  |
| 82.5°  | 2114.5  | 2183.1  | 2182.4  | 2182.4  | 2181.7  | 2181.0  | 2179.6  | 2178.2  | 2176.1  | 2174.8  | 2106.9  |
| 85°    | 1515.1  | 1560.8  | 1513.7  | 1466.7  | 1419.6  | 1372.5  | 1407.2  | 1441.8  | 1477.1  | 1511.7  | 1483.3  |
| 87.5°  | 512.9   | 470.0   | 413.9   | 358.5   | 302.5   | 246.4   | 306.6   | 366.8   | 427.8   | 488.0   | 522.6   |
| 90°    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 92.5°  | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 95°    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 97.5°  | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 100°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 102.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 105°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 107.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 110°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |



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**CANDELA DISTRIBUTION (continued):**

|        | 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    |

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**CANDELA DISTRIBUTION (continued):**

|        | 330°    | 332.5°  | 335°    | 337.5°  | 340°    | 342.5°  | 345°    | 347.5°  | 350°    | 352.5°  | 355°    |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°     | 1504.1  | 1504.1  | 1504.1  | 1504.1  | 1504.1  | 1504.1  | 1504.1  | 1504.1  | 1504.1  | 1504.1  | 1504.1  |
| 2.5°   | 1814.8  | 1807.9  | 1801.7  | 1758.1  | 1713.8  | 1670.2  | 1625.9  | 1706.2  | 1787.2  | 1867.4  | 1947.7  |
| 5°     | 2300.7  | 2286.2  | 2272.4  | 2268.9  | 2265.4  | 2261.3  | 2257.8  | 2298.7  | 2339.5  | 2379.6  | 2420.5  |
| 7.5°   | 2608.0  | 2597.0  | 2585.9  | 2556.8  | 2528.5  | 2499.4  | 2470.3  | 2495.2  | 2519.5  | 2544.4  | 2568.6  |
| 10°    | 2842.0  | 2817.8  | 2793.5  | 2730.6  | 2668.3  | 2605.3  | 2542.3  | 2523.6  | 2504.9  | 2486.2  | 2467.5  |
| 12.5°  | 3142.4  | 3082.9  | 3024.0  | 2952.7  | 2880.8  | 2809.5  | 2737.5  | 2727.8  | 2718.1  | 2709.1  | 2699.4  |
| 15°    | 3377.0  | 3358.3  | 3339.7  | 3282.9  | 3226.1  | 3169.4  | 3112.6  | 3036.5  | 2959.7  | 2883.5  | 2807.4  |
| 17.5°  | 3375.0  | 3345.2  | 3316.1  | 3392.3  | 3467.7  | 3543.8  | 3619.3  | 3538.3  | 3456.6  | 3375.7  | 3294.7  |
| 20°    | 3480.2  | 3462.9  | 3446.3  | 3586.8  | 3726.6  | 3867.1  | 4006.9  | 3962.6  | 3917.6  | 3873.3  | 3828.3  |
| 22.5°  | 3757.0  | 3823.5  | 3889.2  | 4009.7  | 4129.4  | 4249.8  | 4369.6  | 4420.1  | 4470.6  | 4521.2  | 4571.7  |
| 25°    | 4047.7  | 4155.7  | 4263.7  | 4443.0  | 4621.5  | 4800.8  | 4980.1  | 5016.1  | 5052.1  | 5088.0  | 5124.0  |
| 27.5°  | 3931.5  | 4041.5  | 4151.6  | 4287.2  | 4422.2  | 4557.9  | 4692.8  | 4850.6  | 5009.1  | 5167.0  | 5324.8  |
| 30°    | 3894.1  | 4015.9  | 4137.0  | 4323.2  | 4508.7  | 4694.9  | 4881.1  | 5098.4  | 5315.8  | 5532.4  | 5749.8  |
| 32.5°  | 3925.2  | 4096.9  | 4268.5  | 4520.5  | 4771.7  | 5023.7  | 5275.6  | 5504.0  | 5733.1  | 5961.6  | 6190.0  |
| 35°    | 4316.3  | 4461.6  | 4606.3  | 4888.0  | 5169.7  | 5451.4  | 5733.1  | 6001.0  | 6268.9  | 6536.0  | 6803.9  |
| 37.5°  | 4689.4  | 4826.4  | 4963.5  | 5251.4  | 5538.6  | 5826.6  | 6114.5  | 6537.4  | 6961.0  | 7383.9  | 7806.8  |
| 40°    | 5222.3  | 5339.3  | 5455.6  | 5702.0  | 5948.4  | 6194.8  | 6441.2  | 6951.3  | 7461.5  | 7971.6  | 8481.7  |
| 42.5°  | 5831.4  | 5919.3  | 6006.5  | 6261.9  | 6517.4  | 6772.8  | 7028.2  | 7583.3  | 8139.1  | 8694.2  | 9249.3  |
| 45°    | 6576.9  | 6653.7  | 6730.5  | 6906.3  | 7082.2  | 7258.7  | 7434.5  | 8006.9  | 8579.3  | 9151.7  | 9724.1  |
| 47.5°  | 7561.1  | 7462.2  | 7363.2  | 7449.7  | 7536.2  | 7622.7  | 7709.3  | 8275.4  | 8841.6  | 9407.1  | 9973.3  |
| 50°    | 8186.8  | 8083.0  | 7979.2  | 7986.8  | 7993.7  | 8001.3  | 8009.0  | 8537.1  | 9065.2  | 9592.6  | 10120.7 |
| 52.5°  | 9018.8  | 8791.8  | 8565.4  | 8563.4  | 8561.3  | 8558.5  | 8556.5  | 9016.7  | 9477.7  | 9938.0  | 10398.3 |
| 55°    | 9701.3  | 9452.8  | 9204.3  | 9155.9  | 9107.4  | 9058.3  | 9009.8  | 9465.3  | 9920.0  | 10375.4 | 10830.2 |
| 57.5°  | 10286.2 | 9962.2  | 9639.0  | 9562.8  | 9486.7  | 9410.6  | 9334.4  | 9825.2  | 10316.6 | 10807.3 | 11298.1 |
| 60°    | 10546.4 | 10335.3 | 10124.9 | 10031.4 | 9938.0  | 9844.6  | 9751.1  | 10169.2 | 10587.2 | 11004.6 | 11422.7 |
| 62.5°  | 10414.9 | 10258.5 | 10102.7 | 10124.2 | 10145.6 | 10167.1 | 10188.6 | 10427.4 | 10666.8 | 10905.6 | 11144.4 |
| 65°    | 9860.5  | 9823.1  | 9786.4  | 9959.5  | 10132.5 | 10305.5 | 10478.6 | 10482.0 | 10485.5 | 10489.0 | 10492.4 |
| 67.5°  | 8928.8  | 8874.8  | 8820.9  | 9180.8  | 9540.0  | 9899.9  | 10259.9 | 10088.9 | 9917.9  | 9747.7  | 9576.7  |
| 70°    | 7461.5  | 7486.4  | 7510.6  | 8000.6  | 8490.0  | 8980.1  | 9470.1  | 9222.3  | 8973.8  | 8726.0  | 8477.5  |
| 72.5°  | 5707.5  | 5868.1  | 6028.0  | 6536.0  | 7044.1  | 7552.1  | 8060.2  | 7777.1  | 7493.3  | 7210.2  | 6926.4  |
| 75°    | 4175.1  | 4324.6  | 4474.1  | 4975.9  | 5477.7  | 5980.2  | 6482.1  | 6145.7  | 5809.3  | 5473.6  | 5137.2  |
| 77.5°  | 3115.4  | 3173.5  | 3231.0  | 3648.4  | 4065.0  | 4482.4  | 4899.1  | 4561.3  | 4223.5  | 3886.5  | 3548.7  |
| 80°    | 2484.8  | 2443.3  | 2402.5  | 2633.7  | 2864.8  | 3096.0  | 3327.2  | 3087.7  | 2847.5  | 2608.0  | 2368.6  |
| 82.5°  | 2039.8  | 1972.0  | 1904.8  | 1990.6  | 2076.5  | 2163.0  | 2248.8  | 2057.1  | 1865.4  | 1673.6  | 1481.9  |
| 85°    | 1454.9  | 1426.5  | 1398.2  | 1423.1  | 1447.3  | 1472.2  | 1497.1  | 1310.3  | 1123.4  | 937.2   | 750.3   |
| 87.5°  | 556.5   | 591.1   | 625.7   | 665.2   | 703.9   | 743.4   | 782.1   | 612.6   | 443.0   | 274.1   | 104.5   |
| 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     |

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**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  |

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**CANDELA DISTRIBUTION (continued):**

|        | 357.5°  | 360°    |
|--------|---------|---------|
| 0°     | 1504.1  | 1504.1  |
| 2.5°   | 1981.0  | 2014.2  |
| 5°     | 2419.8  | 2419.1  |
| 7.5°   | 2557.5  | 2545.8  |
| 10°    | 2437.1  | 2406.6  |
| 12.5°  | 2609.4  | 2518.8  |
| 15°    | 2717.4  | 2626.7  |
| 17.5°  | 3158.3  | 3021.3  |
| 20°    | 3665.7  | 3502.3  |
| 22.5°  | 4323.2  | 4074.7  |
| 25°    | 4827.1  | 4529.5  |
| 27.5°  | 5148.3  | 4971.1  |
| 30°    | 5547.0  | 5344.1  |
| 32.5°  | 6040.5  | 5890.3  |
| 35°    | 6666.9  | 6529.1  |
| 37.5°  | 7763.9  | 7720.3  |
| 40°    | 8429.8  | 8377.2  |
| 42.5°  | 9251.4  | 9252.8  |
| 45°    | 9755.3  | 9786.4  |
| 47.5°  | 10052.2 | 10130.4 |
| 50°    | 10288.9 | 10456.4 |
| 52.5°  | 10627.4 | 10856.5 |
| 55°    | 11134.7 | 11438.6 |
| 57.5°  | 11557.0 | 11815.8 |
| 60°    | 11557.0 | 11690.5 |
| 62.5°  | 11141.0 | 11136.8 |
| 65°    | 10428.0 | 10363.0 |
| 67.5°  | 9495.0  | 9413.3  |
| 70°    | 8350.2  | 8222.1  |
| 72.5°  | 6767.9  | 6608.7  |
| 75°    | 4919.2  | 4700.4  |
| 77.5°  | 3444.9  | 3340.4  |
| 80°    | 2419.1  | 2469.6  |
| 82.5°  | 1553.9  | 1625.9  |
| 85°    | 739.2   | 728.1   |
| 87.5°  | 87.2    | 69.9    |
| 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     |

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**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)