

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: P368570

Luminaire Tested: **MSA-SA4C-830-U-SLR**

Issue Date: 12/2/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P368570  
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-SA4C-830-U-SLR  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (4) 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: 16379 lumens  
Efficiency: N/A  
Efficacy: 72.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

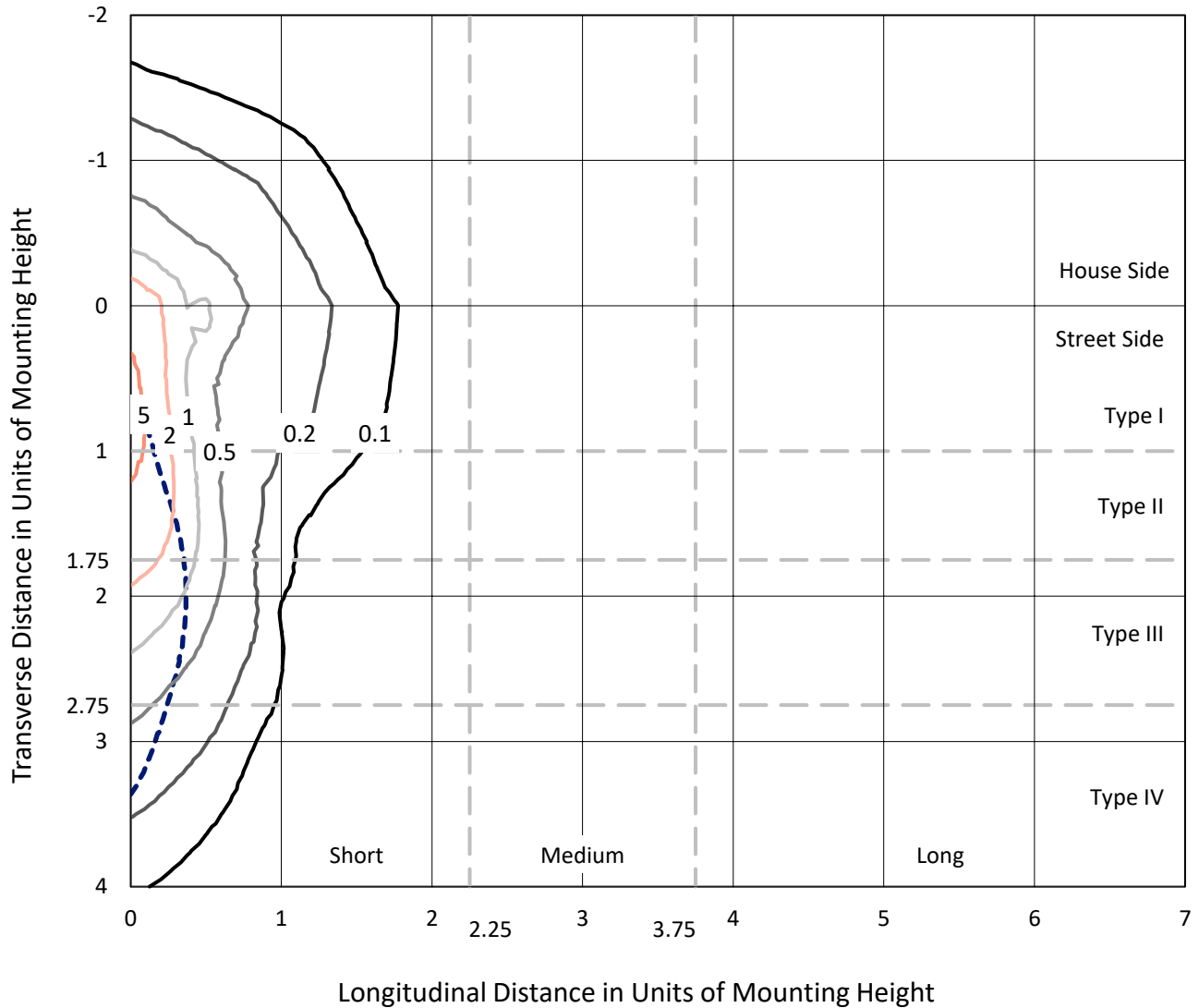
Input Watts (W): 225  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

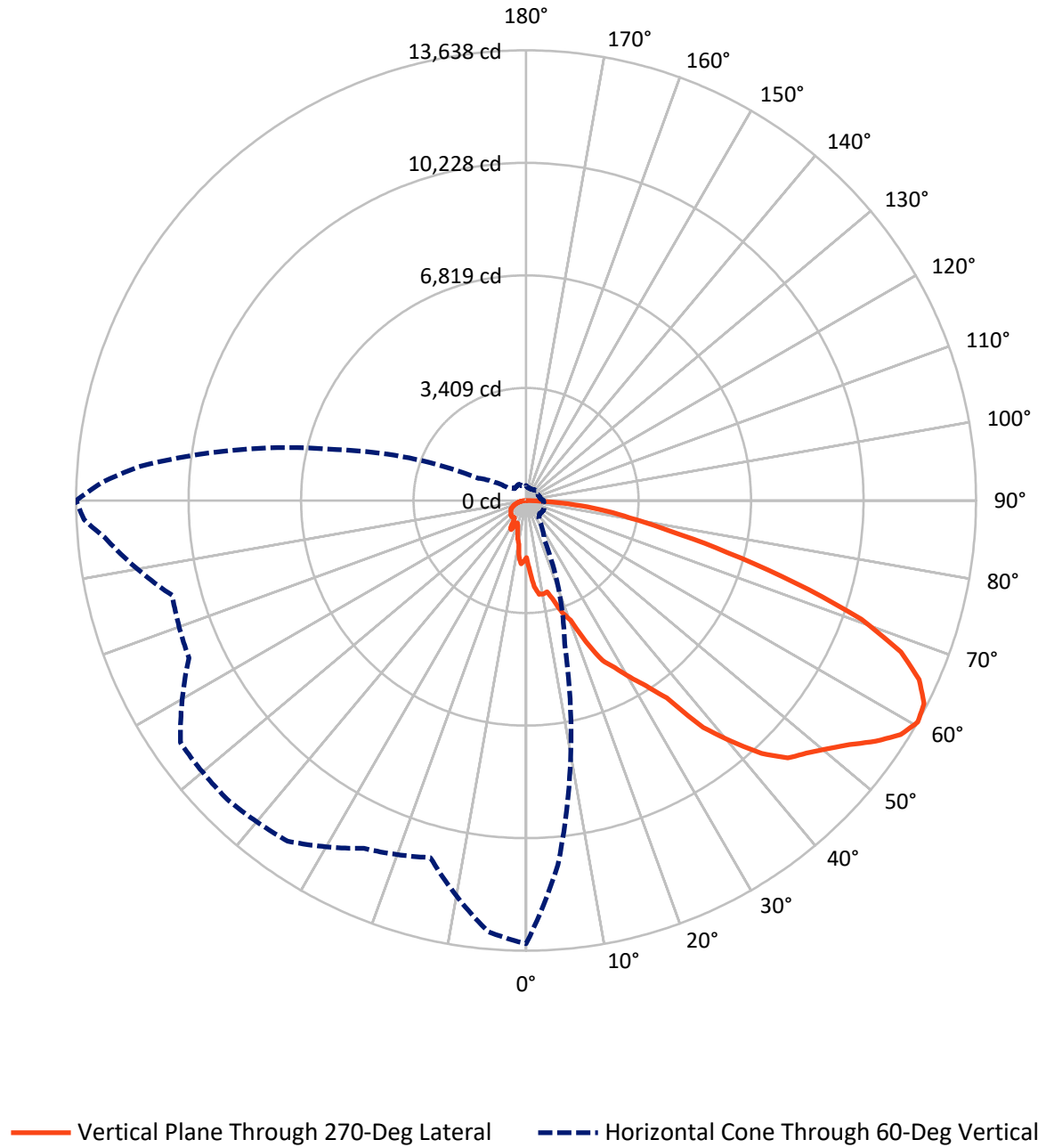
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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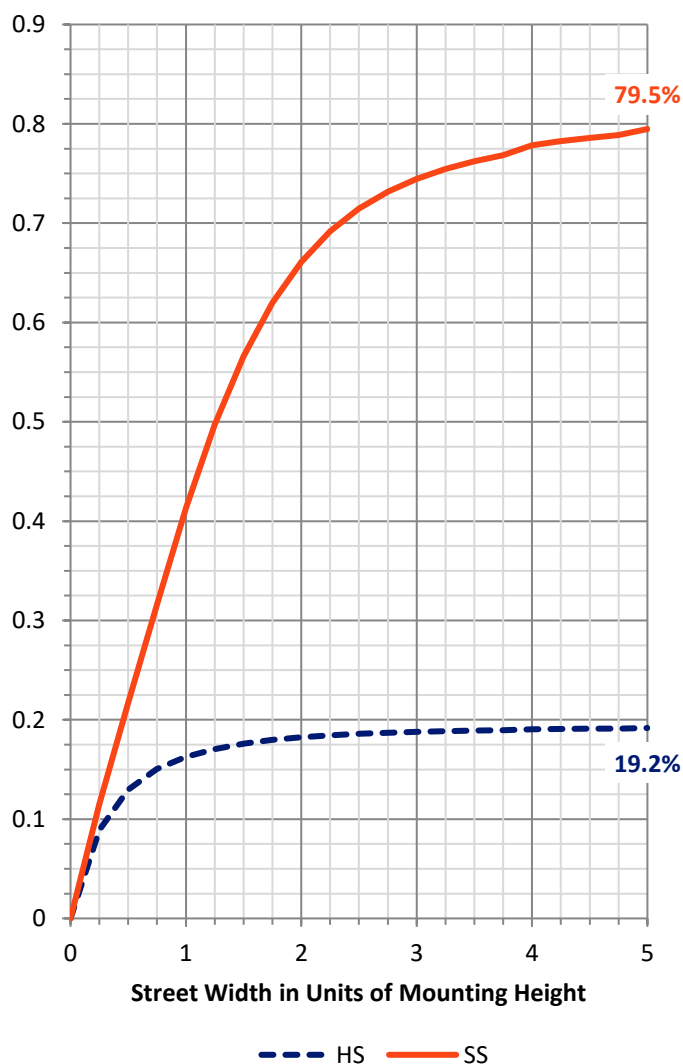
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3172.3	0.0	3172.3
	% Fixture	19.4	0.0	19.4
<b>Street Side</b>	Lumens	13206.7	0.0	13206.7
	% Fixture	80.6	0.0	80.6
<b>Total</b>	Lumens	16379.0	0.0	16379.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	198.0	1.2
10°-20°	575.5	3.5
20°-30°	1016.0	6.2
30°-40°	1582.3	9.7
40°-50°	2605.1	15.9
50°-60°	3718.3	22.7
60°-70°	3942.7	24.1
70°-80°	2177.7	13.3
80°-90°	563.4	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°	16379.0	100.0
0°-180°	16379.0	100.0

**Coefficient of Utilization**



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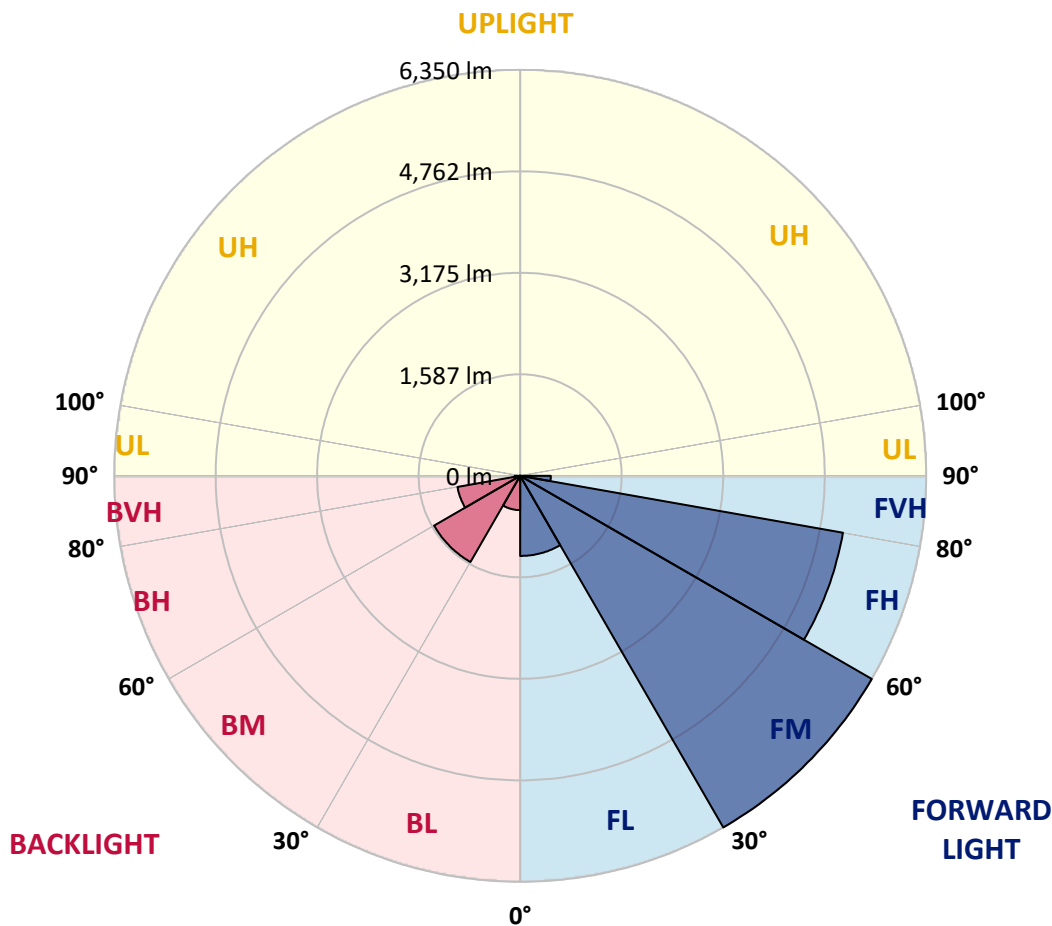
CATALOG NUMBER: MSA-SA4C-830-U-SLR

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1253.3	7.7			
FM (30°-60°)	6349.6	38.8			
FH (60°-80°)	5125.0	31.3			G3/7500
FVH (80°-90°)	478.9	2.9			G3/500
BL (0°-30°)	536.3	3.3	B2/1000		
BM (30°-60°)	1556.1	9.5	B2/2500		
BH (60°-80°)	995.4	6.1	B2/1000		G2/1000
BVH (80°-90°)	84.6	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°	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6
2.5°	2313.5	2327.8	2341.3	2314.3	2287.2	2259.4	2232.4	2191.8	2150.5	2110.0	2068.6
5°	2778.6	2726.1	2672.8	2651.4	2630.7	2609.2	2587.8	2567.9	2548.0	2527.3	2507.5
7.5°	2924.0	2849.3	2773.8	2742.0	2710.2	2677.6	2645.8	2574.2	2502.7	2430.3	2358.8
10°	2764.3	2686.3	2607.6	2576.6	2544.8	2513.8	2482.0	2394.6	2307.9	2220.5	2133.0
12.5°	2893.0	2813.5	2733.2	2634.7	2536.1	2436.7	2338.1	2289.6	2241.1	2191.8	2143.3
15°	3017.1	2909.7	2801.6	2703.0	2604.5	2505.1	2406.5	2309.5	2212.5	2115.5	2018.5
17.5°	3470.2	3291.3	3112.5	2934.4	2755.5	2577.4	2398.5	2286.4	2173.6	2061.5	1948.6
20°	4022.8	3773.9	3524.3	3254.0	2982.9	2712.6	2441.5	2300.0	2159.2	2017.7	1876.2
22.5°	4680.2	4366.2	4052.2	3711.1	3370.0	3028.2	2687.1	2482.0	2276.9	2071.0	1865.9
25°	5202.5	4900.4	4598.3	4165.9	3733.4	3300.9	2868.4	2635.5	2402.5	2168.8	1935.9
27.5°	5709.8	5228.8	4747.0	4251.7	3757.2	3261.9	2766.6	2551.2	2335.7	2120.3	1904.8
30°	6138.3	5756.7	5375.1	4728.7	4082.4	3435.2	2788.9	2524.2	2259.4	1994.7	1729.9
32.5°	6765.5	6221.0	5675.6	5001.4	4327.2	3653.1	2978.9	2640.2	2301.6	1962.9	1624.2
35°	7499.3	6933.3	6367.2	5533.3	4700.1	3866.1	3032.2	2673.6	2314.3	1955.7	1596.4
37.5°	8867.5	7869.8	6871.3	5961.0	5050.7	4139.6	3229.3	2812.7	2396.2	1978.8	1562.2
40°	9622.0	8699.8	7777.6	6643.1	5508.6	4373.4	3238.9	2812.7	2385.8	1959.7	1532.8
42.5°	10627.7	9461.4	8294.3	7067.6	5841.7	4615.0	3388.3	2916.1	2443.9	1970.8	1498.6
45°	11240.7	9940.8	8640.2	7329.2	6018.2	4707.3	3396.3	2916.9	2437.5	1958.1	1478.7
47.5°	11635.8	10387.6	9138.6	7727.5	6316.4	4904.4	3493.3	2984.5	2474.9	1966.1	1456.5
50°	12010.2	10774.0	9536.9	8071.7	6607.3	5142.1	3676.9	3121.2	2565.5	2009.0	1453.3
52.5°	12469.7	11331.3	10192.0	8620.3	7047.8	5476.0	3903.5	3298.5	2693.5	2088.5	1483.5
55°	13138.3	12016.6	10894.0	9207.0	7519.2	5832.2	4144.4	3472.6	2801.6	2129.8	1458.0
57.5°	13571.6	12434.0	11296.3	9575.9	7855.5	6134.3	4413.9	3669.8	2925.6	2180.7	1436.6
60°	13427.7	12254.3	11080.1	9440.0	7799.8	6159.7	4519.6	3715.9	2912.9	2109.2	1305.4
62.5°	12791.7	11544.3	10297.0	8827.8	7359.4	5890.2	4421.1	3603.8	2787.3	1970.0	1152.8
65°	11902.9	10613.4	9323.1	7997.8	6672.5	5347.2	4022.0	3280.2	2537.7	1795.9	1053.4
67.5°	10812.1	9467.8	8122.6	6949.2	5775.8	4601.5	3428.1	2808.0	2188.7	1568.6	948.4
70°	9443.9	8122.6	6801.3	5786.1	4770.9	3755.6	2740.4	2273.7	1807.9	1341.2	874.5
72.5°	7590.8	6450.7	5310.7	4511.7	3712.7	2913.7	2114.7	1790.4	1466.8	1142.4	818.1
75°	5398.9	4728.7	4058.5	3436.8	2815.1	2192.6	1570.9	1361.1	1151.2	941.3	731.4
77.5°	3836.7	3441.6	3046.5	2559.1	2071.8	1584.5	1097.1	973.9	851.5	728.2	605.0
80°	2836.6	2506.7	2176.7	1809.4	1442.1	1074.9	707.6	647.1	587.5	527.1	466.7
82.5°	1867.5	1718.8	1569.4	1278.4	987.4	696.4	405.5	383.2	360.9	338.7	316.4
85°	836.4	883.3	929.4	751.3	572.4	394.3	215.4	205.1	194.8	184.4	174.1
87.5°	80.3	118.5	156.6	134.4	111.3	89.0	66.0	65.2	65.2	64.4	63.6
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):**

	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°	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6
2.5°	2079.7	2090.9	2102.0	2113.1	2101.2	2089.3	2076.6	2064.6	2049.5	2034.4	2018.5
5°	2474.1	2439.9	2406.5	2372.3	2321.4	2270.5	2218.9	2168.0	2161.6	2154.5	2148.1
7.5°	2296.0	2234.0	2171.2	2108.4	2028.9	1950.2	1870.7	1791.2	1767.3	1743.5	1719.6
10°	2090.9	2047.9	2005.8	1962.9	1913.6	1864.3	1814.2	1764.9	1699.7	1633.7	1568.6
12.5°	2073.4	2003.4	1932.7	1862.7	1832.5	1802.3	1772.1	1741.9	1684.6	1627.4	1569.4
15°	1962.1	1904.8	1848.4	1791.2	1747.4	1703.7	1660.0	1616.3	1570.1	1523.2	1477.1
17.5°	1883.4	1818.2	1753.0	1687.8	1637.7	1587.6	1536.8	1486.7	1431.0	1374.6	1318.9
20°	1801.5	1727.6	1652.8	1578.1	1514.5	1451.7	1388.1	1324.5	1263.3	1202.9	1141.6
22.5°	1768.1	1670.3	1572.5	1474.7	1408.0	1340.4	1273.6	1206.0	1149.6	1093.1	1036.7
25°	1819.0	1702.9	1586.0	1469.2	1379.3	1288.7	1198.9	1108.2	1061.3	1014.4	966.7
27.5°	1759.4	1613.1	1467.6	1321.3	1225.1	1128.1	1031.9	934.9	927.8	920.6	912.7
30°	1576.5	1423.1	1269.6	1116.2	1027.9	938.9	850.7	761.6	744.9	727.4	710.7
32.5°	1467.6	1311.0	1154.4	997.7	919.0	839.5	760.8	681.3	662.2	643.2	624.1
35°	1426.2	1256.1	1086.0	915.9	848.3	780.7	713.1	645.5	632.0	619.3	605.8
37.5°	1392.9	1224.3	1055.0	885.6	820.5	755.3	689.3	624.1	613.7	603.4	593.1
40°	1361.1	1190.1	1018.4	846.7	788.7	731.4	673.4	615.3	609.0	602.6	595.5
42.5°	1332.4	1166.3	999.3	833.2	781.5	730.6	678.9	627.3	620.9	614.5	608.2
45°	1316.5	1154.4	992.2	830.0	792.6	755.3	717.1	679.7	664.6	649.5	633.6
47.5°	1304.6	1152.8	1000.9	849.1	810.1	771.2	732.2	693.2	679.7	666.2	651.9
50°	1307.0	1161.5	1015.2	868.9	822.0	774.3	727.4	679.7	678.1	676.6	675.0
52.5°	1328.5	1174.2	1019.2	864.2	813.3	762.4	710.7	659.9	670.2	679.7	690.1
55°	1297.5	1136.9	975.5	814.9	766.4	718.7	670.2	621.7	635.2	647.9	661.4
57.5°	1262.5	1088.4	914.3	740.2	703.6	667.0	629.6	593.1	607.4	622.5	636.8
60°	1146.4	987.4	828.4	669.4	644.8	620.1	595.5	570.8	577.2	583.5	589.9
62.5°	1019.2	884.8	751.3	616.9	597.8	578.0	558.9	539.0	539.0	539.8	539.8
65°	938.1	822.8	707.6	592.3	570.8	549.4	527.1	505.6	502.4	499.3	496.1
67.5°	857.0	766.4	675.0	583.5	552.5	522.3	491.3	460.3	456.3	453.2	449.2
70°	793.4	712.3	631.2	550.1	515.2	481.0	446.0	411.0	407.8	405.5	402.3
72.5°	741.7	666.2	589.9	513.6	477.0	439.6	403.1	365.7	363.3	360.9	357.8
75°	663.8	597.1	529.5	461.9	426.1	391.1	355.4	319.6	316.4	314.0	310.8
77.5°	549.4	492.9	437.3	380.8	353.0	326.0	298.1	270.3	268.7	267.1	264.7
80°	422.9	379.2	334.7	291.0	272.7	253.6	235.3	216.2	215.4	214.7	213.1
82.5°	290.2	263.9	237.7	211.5	198.0	183.6	170.1	155.8	156.6	157.4	158.2
85°	165.4	155.8	147.1	137.5	126.4	116.1	104.9	93.8	96.2	98.6	100.2
87.5°	60.4	57.2	54.1	50.9	45.3	40.5	35.0	29.4	31.0	33.4	35.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P368570  
 CATALOG NUMBER: MSA-SA4C-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

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



REPORT NUMBER: P368570

CATALOG NUMBER: MSA-SA4C-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6
2.5°	2003.4	1979.6	1955.7	1931.9	1908.0	1858.7	1810.2	1760.9	1711.7	1741.9	1772.9
5°	2141.0	2100.4	2059.1	2018.5	1977.2	1954.1	1931.1	1908.0	1885.0	1896.9	1909.6
7.5°	1695.8	1671.9	1647.3	1623.4	1598.8	1588.4	1578.9	1568.6	1558.2	1587.6	1617.1
10°	1502.6	1469.2	1435.8	1401.6	1368.2	1348.3	1328.5	1308.6	1288.7	1296.7	1304.6
12.5°	1512.1	1462.8	1413.5	1364.2	1314.9	1285.5	1256.1	1226.7	1197.3	1204.4	1211.6
15°	1430.2	1379.3	1328.5	1277.6	1226.7	1192.5	1157.5	1123.3	1088.4	1076.4	1063.7
17.5°	1262.5	1206.8	1151.2	1095.5	1039.9	1016.8	993.8	970.7	947.7	934.9	922.2
20°	1080.4	1028.7	977.1	925.4	873.7	857.8	841.9	825.2	809.3	801.4	792.6
22.5°	980.2	948.4	915.9	884.1	851.5	833.2	815.7	797.4	779.1	770.4	760.8
25°	919.8	926.2	933.3	939.7	946.1	938.1	929.4	921.4	912.7	915.9	918.2
27.5°	905.5	919.0	933.3	946.9	960.4	967.5	974.7	981.8	989.0	991.4	993.8
30°	693.2	700.4	706.8	713.9	720.3	740.2	760.0	779.1	799.0	830.0	861.8
32.5°	605.0	602.6	600.2	597.1	594.7	599.4	604.2	608.2	613.0	624.1	636.0
35°	592.3	586.7	580.4	574.8	568.4	570.8	573.2	575.6	578.0	586.7	595.5
37.5°	582.7	580.4	578.8	576.4	574.0	579.6	584.3	589.9	594.7	601.8	609.0
40°	589.1	588.3	587.5	585.9	585.1	588.3	591.5	594.7	597.8	607.4	616.9
42.5°	601.8	601.8	601.0	601.0	600.2	603.4	605.8	609.0	611.4	616.9	622.5
45°	618.5	616.9	616.1	614.5	613.0	612.2	612.2	611.4	610.6	613.7	617.7
47.5°	638.4	632.8	626.5	620.9	614.5	613.0	610.6	609.0	606.6	608.2	609.8
50°	673.4	658.3	644.0	628.9	613.7	609.8	605.8	601.8	597.8	597.1	597.1
52.5°	699.6	677.3	655.1	632.8	610.6	603.4	596.3	589.1	581.9	580.4	579.6
55°	674.2	657.5	641.6	624.9	608.2	597.8	586.7	576.4	565.3	562.9	560.5
57.5°	651.1	640.8	630.4	620.1	609.8	599.4	588.3	578.0	566.8	561.3	555.7
60°	596.3	596.3	597.1	597.1	597.1	585.9	574.8	563.7	552.5	547.0	542.2
62.5°	539.8	548.6	556.5	565.3	573.2	558.1	542.2	527.1	511.2	507.2	504.0
65°	492.9	495.3	498.5	500.9	503.2	491.3	479.4	467.5	455.5	453.2	450.0
67.5°	445.2	444.4	443.6	442.0	441.2	434.1	426.1	419.0	411.0	407.8	404.7
70°	399.1	398.3	397.5	395.9	395.1	388.8	382.4	376.0	369.7	367.3	364.9
72.5°	355.4	354.6	353.0	352.2	350.6	345.0	340.3	334.7	329.1	326.0	322.8
75°	307.7	306.1	304.5	302.9	301.3	296.5	291.8	286.2	281.4	278.3	275.1
77.5°	263.1	260.8	258.4	255.2	252.8	248.8	244.1	240.1	235.3	231.3	228.2
80°	212.3	210.7	209.1	206.7	205.1	201.1	197.2	192.4	188.4	183.6	179.7
82.5°	159.0	158.2	156.6	155.8	154.2	150.3	146.3	142.3	138.3	133.6	128.8
85°	102.6	101.8	101.0	100.2	99.4	96.2	93.8	90.6	87.5	82.7	78.7
87.5°	36.6	35.0	34.2	32.6	31.0	30.2	28.6	27.8	26.2	23.9	21.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P368570  
 CATALOG NUMBER: MSA-SA4C-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

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



REPORT NUMBER: P368570

CATALOG NUMBER: MSA-SA4C-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6
2.5°	1803.1	1833.3	1834.1	1834.1	1848.4	1861.9	1834.1	1806.3	1777.6	1749.8	1722.0
5°	1921.5	1933.5	1930.3	1926.3	1908.8	1891.3	1873.0	1854.8	1836.5	1818.2	1819.0
7.5°	1646.5	1675.9	1699.7	1722.8	1700.5	1678.3	1666.3	1654.4	1642.5	1630.6	1629.0
10°	1311.8	1319.7	1329.3	1338.0	1324.5	1310.2	1334.0	1357.9	1380.9	1404.8	1378.5
12.5°	1218.8	1225.9	1209.2	1191.7	1186.2	1180.6	1175.0	1168.7	1163.1	1156.7	1153.6
15°	1051.8	1039.1	1026.4	1012.8	1009.7	1005.7	1001.7	996.9	993.0	988.2	973.9
17.5°	909.5	896.8	875.3	853.0	844.3	834.8	832.4	830.0	826.8	824.4	810.9
20°	784.7	775.9	770.4	764.0	755.3	746.5	737.8	729.0	719.5	710.7	698.0
22.5°	752.1	742.5	735.4	727.4	725.8	724.3	708.4	691.7	675.8	659.1	651.9
25°	921.4	923.8	880.1	835.6	831.6	827.6	799.0	769.6	740.9	711.5	686.9
27.5°	995.4	997.7	996.1	994.6	981.8	968.3	919.8	870.5	822.0	772.8	737.8
30°	892.8	923.8	935.7	947.7	938.9	929.4	878.5	828.4	777.5	726.6	703.6
32.5°	647.1	658.3	678.1	697.2	707.6	717.1	701.2	685.3	669.4	653.5	649.5
35°	603.4	612.2	616.1	620.1	613.7	607.4	595.5	583.5	570.8	558.9	556.5
37.5°	615.3	622.5	630.4	638.4	620.9	602.6	589.1	576.4	562.9	549.4	538.2
40°	626.5	636.0	640.8	645.5	628.1	610.6	593.9	578.0	561.3	544.6	533.5
42.5°	628.1	633.6	642.4	651.1	626.5	601.0	585.9	570.0	554.9	539.0	527.9
45°	620.9	624.1	632.0	640.0	611.4	581.9	568.4	554.1	540.6	526.3	516.8
47.5°	610.6	612.2	618.5	624.1	593.9	562.9	550.1	537.4	523.9	511.2	501.7
50°	596.3	595.5	600.2	604.2	573.2	542.2	529.5	517.6	504.8	492.1	484.2
52.5°	578.0	576.4	581.2	585.1	552.5	519.9	508.8	498.5	487.3	476.2	469.9
55°	557.3	554.9	558.9	562.9	531.1	498.5	488.9	478.6	469.1	458.7	453.2
57.5°	549.4	543.8	546.2	548.6	512.8	477.0	467.5	457.9	448.4	438.8	434.9
60°	536.6	531.1	533.5	535.0	496.9	457.9	449.2	439.6	430.9	421.4	417.4
62.5°	500.1	496.1	499.3	502.4	468.3	433.3	425.3	418.2	410.2	402.3	396.7
65°	447.6	444.4	450.8	457.1	427.7	398.3	393.5	388.8	383.2	378.4	372.9
67.5°	401.5	398.3	404.7	411.0	389.6	368.1	363.3	358.5	353.8	349.0	345.8
70°	362.5	360.1	365.7	371.3	353.0	334.7	329.9	326.0	321.2	316.4	314.0
72.5°	318.8	315.6	322.8	329.1	314.0	298.1	294.2	289.4	285.4	280.6	279.0
75°	271.9	268.7	275.1	280.6	270.3	259.2	255.2	251.2	247.2	243.3	242.5
77.5°	224.2	220.2	226.6	232.1	225.8	218.6	215.4	211.5	208.3	204.3	204.3
80°	174.9	170.1	174.9	178.9	176.5	174.1	171.7	168.5	166.2	163.0	163.8
82.5°	124.0	119.3	121.6	124.0	125.6	127.2	127.2	127.2	127.2	127.2	127.2
85°	73.9	69.2	70.0	70.8	73.1	75.5	76.3	77.1	77.9	78.7	79.5
87.5°	19.1	16.7	15.1	12.7	15.1	16.7	18.3	19.1	20.7	21.5	21.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P368570  
 CATALOG NUMBER: MSA-SA4C-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

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



REPORT NUMBER: P368570  
 CATALOG NUMBER: MSA-SA4C-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6
2.5°	1694.2	1665.5	1637.7	1655.2	1671.9	1689.4	1706.1	1706.9	1706.9	1707.7	1707.7
5°	1820.6	1821.4	1822.2	1805.5	1789.6	1772.9	1756.2	1747.4	1738.7	1729.1	1720.4
7.5°	1626.6	1625.0	1622.6	1606.7	1590.8	1574.9	1559.0	1520.9	1481.9	1443.7	1404.8
10°	1351.5	1325.3	1298.3	1291.9	1286.3	1280.0	1273.6	1263.3	1253.7	1243.4	1233.1
12.5°	1150.4	1147.2	1144.0	1127.3	1110.6	1093.1	1076.4	1076.4	1076.4	1076.4	1076.4
15°	958.8	944.5	929.4	921.4	912.7	904.7	896.0	892.0	888.0	884.1	880.1
17.5°	796.6	783.1	768.8	767.2	765.6	764.0	762.4	758.4	754.5	750.5	746.5
20°	685.3	672.6	659.9	664.6	669.4	673.4	678.1	674.2	670.2	665.4	661.4
22.5°	644.0	636.8	628.9	624.9	620.9	616.1	612.2	612.2	613.0	613.0	613.0
25°	663.0	638.4	613.7	601.8	589.9	577.2	565.3	560.5	556.5	551.7	547.0
27.5°	702.8	667.0	632.0	611.4	590.7	570.0	549.4	540.6	531.1	522.3	512.8
30°	679.7	656.7	632.8	609.0	585.1	561.3	537.4	526.3	515.2	503.2	492.1
32.5°	645.5	640.8	636.8	614.5	592.3	569.2	547.0	542.2	538.2	533.5	528.7
35°	553.3	550.9	547.8	542.2	536.6	531.1	525.5	519.1	512.8	506.4	500.1
37.5°	527.9	516.8	505.6	503.2	500.9	498.5	496.1	493.7	491.3	488.1	485.8
40°	522.3	511.2	500.1	496.1	492.1	487.3	483.4	484.2	485.8	486.5	487.3
42.5°	516.0	504.8	492.9	489.7	486.5	483.4	480.2	481.0	482.6	483.4	484.2
45°	508.0	498.5	488.9	483.4	478.6	473.0	467.5	472.2	477.0	481.0	485.8
47.5°	492.1	481.8	472.2	469.1	465.9	461.9	458.7	463.5	468.3	472.2	477.0
50°	475.4	467.5	458.7	457.9	457.1	455.5	454.7	457.9	461.1	464.3	467.5
52.5°	462.7	456.3	449.2	449.2	448.4	448.4	447.6	450.8	454.0	456.3	459.5
55°	448.4	442.8	437.3	438.1	439.6	440.4	441.2	444.4	448.4	451.6	454.7
57.5°	430.1	426.1	421.4	424.5	426.9	430.1	432.5	434.9	438.1	440.4	442.8
60°	412.6	408.6	403.9	407.0	411.0	414.2	417.4	419.8	422.2	424.5	426.9
62.5°	391.1	384.8	379.2	384.0	388.0	392.7	396.7	398.3	400.7	402.3	403.9
65°	368.1	362.5	357.0	360.1	363.3	365.7	368.9	371.3	373.7	376.0	378.4
67.5°	341.9	338.7	334.7	337.1	339.5	341.9	344.2	345.0	345.0	345.8	345.8
70°	310.8	308.5	305.3	306.9	309.3	310.8	312.4	312.4	312.4	311.6	311.6
72.5°	278.3	276.7	275.1	275.9	277.5	278.3	279.0	278.3	277.5	276.7	275.9
75°	241.7	240.9	240.1	240.9	242.5	243.3	244.1	243.3	241.7	240.9	239.3
77.5°	205.1	205.1	205.1	205.1	205.9	205.9	205.9	204.3	202.7	201.1	199.5
80°	164.6	165.4	166.2	166.2	166.2	166.2	166.2	164.6	163.0	160.6	159.0
82.5°	127.2	127.2	127.2	127.2	128.0	128.0	128.0	124.0	120.8	116.9	112.9
85°	79.5	80.3	80.3	81.1	81.9	81.9	82.7	77.1	72.3	66.8	61.2
87.5°	21.5	21.5	21.5	21.5	21.5	20.7	20.7	15.9	10.3	5.6	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P368570  
 CATALOG NUMBER: MSA-SA4C-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

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





REPORT NUMBER: P368570

CATALOG NUMBER: MSA-SA4C-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6
2.5°	1712.5	1717.2	1721.2	1726.0	1726.8	1727.6	1727.6	1728.4	1711.7	1695.0	1677.5
5°	1732.3	1743.5	1755.4	1766.5	1764.1	1761.7	1759.4	1757.0	1752.2	1748.2	1743.5
7.5°	1396.0	1388.1	1379.3	1370.6	1377.8	1384.9	1392.1	1399.2	1402.4	1405.6	1408.0
10°	1213.2	1193.3	1173.4	1153.6	1142.4	1130.5	1119.4	1107.4	1105.9	1105.1	1103.5
12.5°	1055.8	1034.3	1013.6	992.2	985.8	978.7	972.3	965.1	971.5	977.9	983.4
15°	871.3	863.4	854.6	845.9	853.0	860.2	867.4	874.5	880.9	886.4	892.8
17.5°	742.5	739.4	735.4	731.4	737.8	744.9	751.3	757.6	772.0	786.3	800.6
20°	658.3	655.9	652.7	649.5	647.1	644.0	641.6	638.4	659.1	678.9	699.6
22.5°	608.2	603.4	598.6	593.9	594.7	595.5	595.5	596.3	613.0	630.4	647.1
25°	545.4	543.8	542.2	540.6	545.4	550.1	554.1	558.9	574.0	589.1	603.4
27.5°	513.6	514.4	515.2	516.0	522.3	529.5	535.8	542.2	552.5	562.9	573.2
30°	496.1	500.9	504.8	508.8	511.2	513.6	516.0	518.3	528.7	538.2	548.6
32.5°	522.3	516.0	508.8	502.4	505.6	509.6	512.8	516.0	525.5	535.0	544.6
35°	497.7	494.5	492.1	488.9	492.9	496.9	500.1	504.0	512.8	520.7	529.5
37.5°	485.0	484.2	483.4	482.6	485.0	487.3	488.9	491.3	499.3	507.2	514.4
40°	484.2	480.2	477.0	473.0	475.4	477.8	479.4	481.8	491.3	500.9	510.4
42.5°	479.4	474.6	469.1	464.3	466.7	469.9	472.2	474.6	485.0	494.5	504.8
45°	478.6	471.4	463.5	456.3	459.5	462.7	465.9	469.1	477.0	485.0	492.1
47.5°	469.9	462.7	455.5	448.4	450.0	451.6	452.4	454.0	461.1	467.5	474.6
50°	462.7	457.1	452.4	446.8	444.4	442.8	440.4	438.1	443.6	449.2	454.7
52.5°	454.0	448.4	442.0	436.5	433.3	430.1	426.9	423.7	428.5	432.5	437.3
55°	448.4	441.2	434.9	427.7	423.7	419.8	415.8	411.8	415.0	417.4	420.6
57.5°	436.5	430.1	422.9	416.6	411.8	407.0	401.5	396.7	398.3	399.9	401.5
60°	420.6	413.4	407.0	399.9	394.3	388.8	382.4	376.8	377.6	379.2	380.0
62.5°	397.5	391.1	384.0	377.6	371.3	365.7	359.3	353.0	354.6	355.4	357.0
65°	372.1	364.9	358.5	351.4	345.8	340.3	333.9	328.3	329.9	331.5	332.3
67.5°	341.1	335.5	330.7	325.2	320.4	314.8	310.1	304.5	305.3	306.1	306.9
70°	307.7	302.9	298.9	294.2	290.2	286.2	282.2	278.3	278.3	279.0	279.0
72.5°	271.9	267.9	263.9	260.0	256.0	252.8	248.8	244.9	246.5	248.0	248.8
75°	235.3	232.1	228.2	224.2	221.0	217.8	213.9	210.7	212.3	213.9	214.7
77.5°	197.2	194.8	191.6	189.2	186.0	182.9	178.9	175.7	177.3	178.9	179.7
80°	157.4	155.8	153.4	151.8	148.7	145.5	142.3	139.1	139.9	139.9	140.7
82.5°	113.7	114.5	114.5	115.3	112.9	109.7	107.3	104.1	104.1	104.1	103.4
85°	63.6	66.8	69.2	71.6	69.2	66.8	64.4	62.0	61.2	61.2	60.4
87.5°	2.4	4.0	6.4	8.0	7.2	6.4	4.8	4.0	4.8	5.6	5.6
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



REPORT NUMBER: P368570  
 CATALOG NUMBER: MSA-SA4C-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

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



REPORT NUMBER: P368570

CATALOG NUMBER: MSA-SA4C-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6
2.5°	1660.8	1674.3	1687.8	1701.3	1714.8	1735.5	1756.2	1777.6	1799.1	1787.2	1774.5
5°	1738.7	1746.6	1755.4	1763.3	1771.3	1794.3	1816.6	1844.4	1871.5	1868.3	1864.3
7.5°	1411.1	1422.3	1433.4	1443.7	1454.9	1489.8	1524.8	1554.2	1583.7	1579.7	1574.9
10°	1101.9	1124.9	1148.8	1171.8	1194.9	1223.5	1251.3	1276.0	1300.6	1342.0	1382.5
12.5°	989.8	1025.6	1061.3	1097.1	1132.9	1153.6	1173.4	1205.2	1237.0	1259.3	1282.4
15°	898.4	931.8	965.1	998.5	1031.9	1033.5	1035.1	1068.5	1101.9	1121.0	1139.2
17.5°	814.9	833.2	851.5	868.9	887.2	880.9	874.5	890.4	905.5	913.5	922.2
20°	719.5	732.2	744.9	757.6	770.4	779.1	787.1	796.6	805.3	797.4	788.7
22.5°	663.8	682.9	702.8	721.9	740.9	746.5	751.3	745.7	740.2	737.8	735.4
25°	618.5	641.6	665.4	688.5	711.5	722.7	733.8	738.6	742.5	733.8	725.0
27.5°	583.5	611.4	638.4	666.2	693.2	713.1	733.0	738.6	743.3	737.0	729.8
30°	558.1	588.3	618.5	648.7	678.9	709.1	738.6	764.8	790.2	787.9	785.5
32.5°	554.1	574.8	595.5	616.1	636.8	655.9	674.2	675.8	676.6	670.2	663.0
35°	537.4	550.9	564.5	578.0	591.5	603.4	614.5	613.0	611.4	605.0	598.6
37.5°	522.3	535.8	550.1	563.7	577.2	597.8	617.7	613.7	609.0	602.6	596.3
40°	519.9	535.0	550.1	564.5	579.6	598.6	617.7	613.7	609.8	601.8	593.9
42.5°	514.4	529.5	543.8	558.9	573.2	596.3	618.5	611.4	603.4	597.1	590.7
45°	500.1	513.6	527.1	540.6	554.1	578.8	603.4	594.7	585.9	583.5	580.4
47.5°	481.0	494.5	508.0	521.5	535.0	559.7	583.5	576.4	568.4	567.6	566.0
50°	460.3	473.0	486.5	499.3	512.0	536.6	560.5	554.1	547.8	548.6	548.6
52.5°	441.2	453.2	464.3	476.2	487.3	512.0	535.8	531.1	525.5	527.1	527.9
55°	422.9	432.5	442.0	451.6	461.1	485.0	508.8	501.7	494.5	496.9	499.3
57.5°	403.1	411.0	419.0	426.1	434.1	457.9	481.0	473.0	464.3	468.3	471.4
60°	380.8	388.0	395.1	401.5	408.6	430.1	450.8	443.6	435.7	441.2	446.0
62.5°	357.8	363.3	368.9	374.4	380.0	399.9	419.8	414.2	408.6	415.0	420.6
65°	333.9	337.9	342.6	346.6	350.6	369.7	388.0	384.0	380.0	385.6	391.1
67.5°	307.7	310.8	314.8	318.0	321.2	338.7	356.2	352.2	347.4	352.2	356.2
70°	279.0	282.2	284.6	287.8	290.2	306.1	322.0	316.4	310.1	314.8	318.8
72.5°	250.4	252.0	254.4	256.0	257.6	269.5	281.4	276.7	271.9	276.7	280.6
75°	216.2	217.8	219.4	221.0	222.6	232.9	242.5	236.9	230.6	235.3	240.1
77.5°	181.3	182.1	183.6	184.4	185.2	192.4	198.8	193.2	186.8	192.4	198.0
80°	140.7	141.5	142.3	142.3	143.1	145.5	147.9	143.9	139.1	146.3	153.4
82.5°	103.4	102.6	102.6	101.8	101.0	101.0	100.2	97.8	94.6	101.0	107.3
85°	59.6	58.8	57.2	56.4	54.9	52.5	50.1	49.3	48.5	54.1	59.6
87.5°	6.4	5.6	4.0	3.2	1.6	0.8	0.0	0.0	0.0	3.2	7.2
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: P368570  
 CATALOG NUMBER: MSA-SA4C-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

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



REPORT NUMBER: P368570

CATALOG NUMBER: MSA-SA4C-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6
2.5°	1762.5	1749.8	1737.9	1726.0	1714.0	1702.1	1724.4	1746.6	1768.9	1791.2	1811.0
5°	1861.1	1857.1	1846.8	1837.3	1826.9	1816.6	1822.2	1828.5	1834.1	1839.7	1851.6
7.5°	1570.9	1566.2	1588.4	1609.9	1632.2	1653.6	1659.2	1664.0	1669.5	1674.3	1671.1
10°	1423.9	1464.4	1474.7	1484.3	1494.6	1504.2	1520.1	1536.0	1551.1	1567.0	1575.7
12.5°	1304.6	1326.9	1363.4	1400.8	1437.4	1473.9	1497.8	1521.6	1545.5	1569.4	1618.6
15°	1158.3	1176.6	1204.4	1232.3	1260.1	1287.9	1322.1	1357.1	1391.3	1425.5	1479.5
17.5°	930.2	938.1	958.8	979.5	999.3	1020.0	1066.1	1111.4	1157.5	1202.9	1264.9
20°	780.7	772.0	772.0	772.8	772.8	772.8	818.9	864.2	910.3	955.6	1037.5
22.5°	732.2	729.8	721.1	711.5	702.8	693.2	717.1	741.7	765.6	789.4	856.2
25°	715.5	706.8	695.6	684.5	673.4	662.2	677.3	692.5	707.6	722.7	775.1
27.5°	723.5	716.3	721.9	726.6	732.2	737.0	741.7	746.5	751.3	756.1	774.3
30°	783.1	780.7	789.4	797.4	806.1	814.1	803.0	792.6	781.5	770.4	776.7
32.5°	656.7	649.5	646.3	643.2	640.0	636.8	636.0	635.2	633.6	632.8	647.1
35°	592.3	585.9	581.2	576.4	570.8	566.0	568.4	570.0	572.4	574.0	589.9
37.5°	589.9	583.5	578.0	572.4	566.0	560.5	562.9	566.0	568.4	570.8	582.7
40°	585.9	578.0	574.8	571.6	568.4	565.3	566.8	568.4	569.2	570.8	579.6
42.5°	583.5	577.2	575.6	574.0	572.4	570.8	572.4	574.0	574.8	576.4	586.7
45°	578.0	574.8	576.4	578.0	579.6	581.2	581.2	581.2	581.2	581.2	592.3
47.5°	565.3	563.7	568.4	573.2	578.0	582.7	590.7	598.6	605.8	613.7	616.1
50°	549.4	549.4	557.3	565.3	572.4	580.4	599.4	617.7	636.8	655.1	643.2
52.5°	529.5	530.3	542.2	553.3	565.3	576.4	593.9	611.4	628.1	645.5	628.1
55°	500.9	503.2	518.3	532.7	547.8	562.1	575.6	589.1	602.6	616.1	597.8
57.5°	475.4	478.6	494.5	509.6	525.5	540.6	548.6	557.3	565.3	573.2	561.3
60°	451.6	456.3	477.0	497.7	517.6	538.2	531.9	525.5	518.3	512.0	511.2
62.5°	426.9	432.5	451.6	470.6	488.9	508.0	498.5	488.9	478.6	469.1	473.0
65°	395.9	401.5	410.2	419.0	426.9	435.7	434.9	434.9	434.1	433.3	441.2
67.5°	360.9	364.9	370.5	375.2	380.8	385.6	388.8	392.7	395.9	399.1	408.6
70°	323.6	327.5	333.1	337.9	343.4	348.2	352.2	356.2	359.3	363.3	372.9
72.5°	285.4	289.4	294.9	300.5	305.3	310.8	314.0	317.2	319.6	322.8	330.7
75°	244.9	249.6	255.2	260.0	265.5	270.3	272.7	275.1	277.5	279.8	287.0
77.5°	203.5	209.1	214.7	220.2	225.8	231.3	232.1	232.9	233.7	234.5	240.9
80°	159.8	167.0	172.5	178.1	183.6	189.2	189.2	189.2	189.2	189.2	192.4
82.5°	113.7	120.0	126.4	132.0	138.3	143.9	143.9	143.1	143.1	142.3	142.3
85°	65.2	70.8	74.7	79.5	83.5	87.5	87.5	87.5	86.7	86.7	85.1
87.5°	10.3	13.5	15.1	17.5	19.1	20.7	19.9	19.9	19.1	18.3	15.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P368570  
 CATALOG NUMBER: MSA-SA4C-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

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



REPORT NUMBER: P368570

CATALOG NUMBER: MSA-SA4C-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6
2.5°	1830.9	1850.8	1870.7	1867.5	1864.3	1861.1	1857.9	1869.9	1881.0	1892.9	1904.0
5°	1862.7	1874.6	1885.8	1894.5	1903.3	1912.0	1920.7	1961.3	2001.0	2041.6	2081.3
7.5°	1667.9	1664.0	1660.8	1698.1	1736.3	1773.7	1811.0	1862.7	1914.4	1966.1	2017.7
10°	1584.5	1593.2	1601.9	1617.1	1633.0	1648.1	1663.2	1714.0	1764.9	1815.8	1866.7
12.5°	1667.1	1716.4	1764.9	1776.8	1789.6	1801.5	1813.4	1823.8	1834.1	1843.6	1854.0
15°	1533.6	1587.6	1641.7	1672.7	1703.7	1733.9	1764.9	1842.8	1920.0	1997.9	2075.0
17.5°	1326.1	1388.1	1449.3	1525.6	1601.9	1678.3	1754.6	1826.1	1897.7	1968.4	2040.0
20°	1119.4	1200.5	1282.4	1365.8	1448.5	1532.0	1614.7	1684.6	1754.6	1823.8	1893.7
22.5°	922.2	989.0	1055.0	1156.7	1257.7	1359.5	1460.4	1590.8	1720.4	1850.8	1980.4
25°	826.8	879.3	931.0	1035.9	1140.8	1245.0	1349.9	1519.3	1687.8	1857.1	2025.7
27.5°	793.4	811.7	830.0	925.4	1020.0	1115.4	1210.0	1392.9	1575.7	1757.8	1940.6
30°	783.1	789.4	795.8	870.5	945.3	1020.0	1094.7	1275.2	1456.5	1636.9	1817.4
32.5°	660.7	675.0	688.5	761.6	834.0	907.1	979.5	1161.5	1342.8	1524.8	1706.1
35°	605.8	621.7	637.6	709.1	780.7	851.5	923.0	1114.6	1307.0	1498.6	1690.2
37.5°	594.7	606.6	618.5	699.6	780.7	861.8	942.9	1136.9	1330.8	1524.8	1718.8
40°	589.1	597.8	606.6	685.3	764.8	843.5	922.2	1125.7	1328.5	1532.0	1734.7
42.5°	596.3	606.6	616.1	687.7	758.4	830.0	900.7	1111.4	1321.3	1532.0	1741.9
45°	602.6	613.7	624.1	690.9	757.6	824.4	891.2	1116.2	1340.4	1565.4	1789.6
47.5°	617.7	620.1	621.7	679.7	737.0	795.0	852.3	1081.2	1310.2	1538.3	1767.3
50°	630.4	618.5	605.8	666.2	725.8	786.3	845.9	1062.9	1280.0	1496.2	1713.2
52.5°	610.6	592.3	574.8	640.0	705.2	769.6	834.8	1051.8	1269.6	1486.7	1703.7
55°	580.4	562.1	543.8	609.8	675.8	741.7	807.7	1024.0	1241.0	1457.3	1673.5
57.5°	550.1	538.2	526.3	580.4	635.2	689.3	743.3	977.9	1211.6	1446.1	1679.9
60°	510.4	508.8	508.0	550.1	593.1	635.2	677.3	907.1	1136.1	1365.8	1594.8
62.5°	476.2	480.2	483.4	517.6	551.7	585.1	619.3	841.1	1063.7	1285.5	1507.3
65°	450.0	457.9	465.9	504.8	543.8	581.9	620.9	806.9	993.0	1179.0	1365.0
67.5°	418.2	427.7	437.3	488.1	539.0	589.9	640.8	794.2	947.7	1101.1	1254.5
70°	381.6	391.1	399.9	465.1	529.5	594.7	659.1	795.0	931.8	1067.7	1203.6
72.5°	338.7	346.6	354.6	424.5	494.5	564.5	634.4	749.7	865.0	979.5	1094.7
75°	294.9	302.1	309.3	369.7	430.1	490.5	550.9	640.0	728.2	817.3	905.5
77.5°	246.5	252.8	258.4	298.9	339.5	380.0	420.6	488.9	556.5	624.9	692.5
80°	195.6	198.8	201.9	225.8	248.8	272.7	295.7	341.1	386.4	430.9	476.2
82.5°	143.1	143.1	143.1	158.2	174.1	189.2	204.3	227.4	249.6	272.7	294.9
85°	83.5	81.1	79.5	89.8	100.2	110.5	120.8	130.4	139.9	149.5	159.0
87.5°	13.5	10.3	8.0	14.3	20.7	27.0	33.4	36.6	40.5	43.7	46.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P368570  
 CATALOG NUMBER: MSA-SA4C-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

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





REPORT NUMBER: P368570

CATALOG NUMBER: MSA-SA4C-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6
2.5°	1877.0	1850.8	1823.8	1796.7	1836.5	1876.2	1916.0	1955.7	2061.5	2124.3	2128.2
5°	2114.7	2148.1	2181.5	2214.9	2248.3	2281.7	2314.3	2347.7	2519.4	2625.1	2645.0
7.5°	2072.6	2128.2	2183.1	2238.0	2332.6	2427.2	2521.8	2616.4	2761.9	2866.8	2936.0
10°	1935.1	2003.4	2071.8	2140.2	2252.3	2365.2	2477.3	2589.3	2743.6	2881.9	2947.9
12.5°	1962.9	2071.8	2179.9	2288.8	2385.8	2483.6	2580.6	2677.6	2784.1	2836.6	2956.6
15°	2150.5	2226.0	2301.6	2377.1	2523.4	2668.8	2815.1	2960.6	3021.0	3141.1	3249.2
17.5°	2179.1	2317.5	2456.6	2594.9	2773.8	2952.7	3131.5	3310.4	3422.5	3577.5	3707.9
20°	2090.1	2285.7	2482.0	2677.6	2908.1	3139.5	3370.0	3600.6	3742.9	3873.3	4075.2
22.5°	2196.6	2412.9	2628.3	2844.5	3150.6	3455.9	3762.0	4067.3	4364.6	4655.6	4792.3
25°	2314.3	2603.7	2892.2	3180.8	3563.2	3944.8	4327.2	4708.8	5091.2	5363.9	5521.3
27.5°	2231.6	2521.8	2812.7	3102.9	3576.0	4049.8	4522.8	4995.8	5405.3	5733.6	5868.8
30°	2173.6	2529.7	2885.9	3242.1	3797.0	4351.9	4906.8	5461.7	5840.1	6206.6	6405.4
32.5°	2163.2	2620.4	3076.7	3533.8	4180.2	4825.7	5472.1	6117.6	6368.8	6694.0	6961.9
35°	2191.8	2694.3	3195.9	3697.6	4438.5	5179.5	5919.6	6660.6	7017.6	7339.5	7574.1
37.5°	2279.3	2839.8	3399.5	3959.9	4852.7	5746.3	6639.1	7531.9	8130.6	8719.7	8824.6
40°	2328.6	2923.3	3517.1	4111.0	5149.3	6187.6	7225.8	8264.1	8952.6	9599.0	9642.7
42.5°	2386.6	3031.4	3675.3	4320.1	5471.3	6623.2	7774.4	8925.6	9777.8	10472.7	10493.3
45°	2453.4	3116.4	3780.3	4443.3	5645.4	6846.6	8048.7	9249.9	10280.3	11124.6	10918.7
47.5°	2479.6	3192.8	3905.1	4617.4	5899.0	7179.7	8461.3	9742.1	10666.7	11434.6	11237.5
50°	2490.0	3267.5	4044.2	4820.9	6148.6	7477.1	8804.7	10132.4	11072.9	11821.8	11519.7
52.5°	2554.4	3405.0	4255.7	5106.4	6489.7	7873.0	9256.3	10639.6	11565.0	12284.5	11909.3
55°	2641.0	3608.6	4575.3	5542.8	6974.6	8405.6	9837.5	11268.5	12197.0	12866.4	12401.4
57.5°	2721.3	3763.6	4805.0	5846.5	7330.0	8814.3	10297.8	11781.3	12721.8	13384.0	12933.2
60°	2682.4	3769.9	4857.5	5945.1	7403.1	8860.4	10318.4	11775.7	12843.4	13637.6	13407.1
62.5°	2564.7	3622.1	4678.6	5736.0	7120.1	8503.4	9887.5	11270.9	12520.6	13539.0	13528.7
65°	2338.1	3311.2	4283.5	5256.6	6537.4	7818.9	9099.7	10380.5	11853.6	13090.6	13170.9
67.5°	2062.3	2870.0	3677.7	4485.4	5691.5	6897.5	8103.5	9309.6	10884.5	12249.5	12318.7
70°	1795.1	2387.4	2978.9	3570.4	4629.3	5688.3	6746.5	7805.4	9396.2	10777.2	10840.8
72.5°	1481.9	1869.1	2255.4	2642.6	3500.4	4358.2	5215.3	6073.1	7469.9	8532.1	8890.6
75°	1135.3	1365.0	1594.8	1824.5	2518.6	3212.6	3905.9	4599.9	5528.5	6312.4	6716.2
77.5°	811.7	931.0	1050.2	1169.5	1759.4	2349.3	2938.4	3528.3	4016.4	4460.8	4733.5
80°	532.7	588.3	644.8	700.4	1190.9	1681.4	2171.2	2661.7	2959.0	3197.5	3335.1
82.5°	322.8	350.6	377.6	405.5	803.0	1200.5	1597.2	1994.7	2164.8	2278.5	2400.9
85°	174.1	189.2	204.3	219.4	474.6	729.0	984.2	1238.6	1255.3	1268.8	1450.9
87.5°	50.9	55.7	59.6	63.6	104.9	147.1	188.4	229.8	143.1	89.0	182.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P368570  
 CATALOG NUMBER: MSA-SA4C-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

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



REPORT NUMBER: P368570

CATALOG NUMBER: MSA-SA4C-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6
2.5°	2105.2	2094.9	2084.5	2073.4	2063.1	2019.3	1976.4	1932.7	1888.9	1931.1	1972.4
5°	2621.9	2653.7	2684.8	2716.6	2748.4	2750.7	2752.3	2754.7	2756.3	2764.3	2772.2
7.5°	2994.0	3050.5	3106.1	3162.6	3219.0	3262.7	3306.4	3351.0	3394.7	3354.9	3315.2
10°	3025.8	3145.1	3264.3	3383.6	3502.8	3524.3	3545.0	3566.4	3587.9	3616.5	3644.3
12.5°	3057.6	3203.1	3347.8	3493.3	3638.8	3702.4	3765.2	3828.8	3891.6	3922.6	3952.8
15°	3393.9	3479.8	3564.8	3650.7	3735.8	3779.5	3822.4	3866.1	3909.9	3936.1	3961.5
17.5°	3826.4	3858.2	3889.2	3921.0	3952.8	3982.2	4011.6	4041.0	4070.5	4075.2	4080.0
20°	4220.7	4227.1	4232.6	4239.0	4244.6	4182.5	4121.3	4059.3	3997.3	4008.4	4018.8
22.5°	4812.2	4777.2	4743.0	4708.1	4673.9	4557.0	4440.9	4324.1	4208.0	4157.9	4108.6
25°	5702.6	5613.6	5524.5	5435.5	5346.4	5160.4	4975.2	4789.1	4603.9	4495.0	4386.9
27.5°	5989.6	5795.6	5602.4	5408.5	5214.5	5073.8	4933.8	4793.1	4653.2	4480.7	4308.2
30°	6570.0	6263.9	5958.6	5652.5	5346.4	5210.5	5074.6	4937.8	4801.9	4625.4	4449.7
32.5°	7084.3	6766.3	6448.3	6129.5	5811.5	5553.9	5296.4	5038.8	4781.2	4661.9	4542.7
35°	7679.8	7279.9	6880.0	6480.1	6080.2	5859.2	5639.0	5418.0	5197.8	5017.3	4837.6
37.5°	8547.2	8121.8	7696.5	7270.4	6845.0	6546.1	6248.0	5949.1	5650.9	5551.6	5453.0
40°	9374.0	8871.5	8369.9	7867.4	7365.8	7136.8	6907.8	6678.1	6449.1	6281.4	6113.6
42.5°	10066.4	9569.5	9073.5	8576.6	8080.5	7913.5	7747.4	7580.4	7414.3	7275.9	7137.6
45°	10304.1	9898.7	9494.0	9088.6	8683.1	8624.3	8566.2	8507.4	8449.4	8346.8	8244.3
47.5°	10686.5	10273.1	9860.5	9447.1	9033.7	9055.2	9076.6	9098.9	9120.4	9125.9	9130.7
50°	10911.5	10518.8	10126.8	9734.1	9342.2	9446.3	9549.7	9653.8	9758.0	9994.1	10229.4
52.5°	11239.9	10854.3	10469.5	10083.9	9698.3	9874.8	10050.5	10227.0	10402.7	10733.4	11064.2
55°	11651.7	11282.8	10914.7	10545.8	10177.7	10349.4	10520.4	10692.1	10863.0	11231.1	11599.2
57.5°	12197.8	11802.7	11408.4	11013.3	10619.0	10777.2	10934.6	11092.8	11250.2	11600.0	11949.8
60°	12819.5	12390.2	11960.9	11530.8	11101.5	11145.3	11188.2	11231.9	11274.8	11654.1	12032.5
62.5°	13124.8	12727.3	12330.6	11933.1	11535.6	11414.0	11292.3	11169.9	11048.3	11387.7	11726.4
65°	12860.1	12586.6	12313.9	12040.4	11766.9	11552.3	11338.4	11123.8	10909.1	11121.4	11332.9
67.5°	12017.4	11862.3	11708.1	11553.1	11398.1	11037.9	10677.8	10316.8	9956.7	9971.0	9984.5
70°	10651.5	10610.2	10569.7	10528.3	10487.0	9945.6	9405.0	8863.6	8322.2	8239.5	8156.8
72.5°	8920.8	8947.8	8974.1	9001.1	9028.1	8446.2	7864.2	7282.3	6700.3	6562.8	6425.3
75°	6909.4	7058.9	7208.4	7358.6	7508.1	6951.6	6395.1	5837.8	5281.3	5111.9	4942.6
77.5°	4882.2	5161.2	5439.5	5718.5	5997.6	5494.3	4991.9	4488.6	3985.4	3875.7	3766.0
80°	3404.2	3541.0	3677.7	3814.5	3951.2	3698.4	3445.6	3192.8	2939.9	2970.2	2999.6
82.5°	2479.6	2511.4	2542.4	2574.2	2606.0	2502.7	2399.3	2295.2	2191.8	2270.5	2349.3
85°	1588.4	1702.1	1815.0	1928.7	2041.6	1927.1	1812.6	1697.3	1582.9	1635.3	1687.8
87.5°	355.4	562.1	768.8	976.3	1183.0	1071.7	961.2	849.9	738.6	688.5	639.2
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: P368570  
 CATALOG NUMBER: MSA-SA4C-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

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



REPORT NUMBER: P368570

CATALOG NUMBER: MSA-SA4C-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6
2.5°	2014.6	2056.7	2044.0	2032.0	2019.3	2006.6	2029.7	2052.7	2076.6	2099.6	2091.7
5°	2780.9	2788.9	2713.4	2638.6	2563.1	2487.6	2534.5	2581.4	2628.3	2675.2	2658.5
7.5°	3275.4	3235.7	3192.0	3148.2	3103.7	3060.0	3050.5	3040.9	3030.6	3021.0	3008.3
10°	3672.9	3700.8	3672.2	3644.3	3615.7	3587.1	3520.3	3453.5	3385.9	3319.2	3291.3
12.5°	3983.8	4014.8	4022.0	4028.3	4035.5	4042.6	3967.9	3894.0	3819.2	3744.5	3676.9
15°	3987.8	4014.0	4037.1	4059.3	4082.4	4104.6	4058.5	4013.2	3967.1	3921.0	3899.5
17.5°	4085.6	4090.3	4071.2	4053.0	4033.9	4015.6	3997.3	3979.8	3961.5	3944.0	3909.9
20°	4029.9	4041.0	4038.7	4036.3	4033.1	4030.7	4032.3	4033.1	4034.7	4035.5	4016.4
22.5°	4058.5	4008.4	4018.8	4028.3	4038.7	4048.2	4076.8	4105.4	4134.8	4163.5	4239.8
25°	4278.0	4169.0	4152.3	4136.4	4119.7	4103.8	4178.6	4252.5	4327.2	4402.0	4526.0
27.5°	4134.8	3962.3	3924.2	3886.0	3847.9	3809.7	3923.4	4036.3	4150.0	4263.6	4390.0
30°	4273.2	4097.5	4013.2	3928.9	3843.9	3759.6	3868.5	3976.6	4085.6	4193.7	4333.6
32.5°	4423.4	4304.2	4247.7	4192.1	4135.6	4080.0	4088.7	4097.5	4106.2	4115.0	4312.1
35°	4657.2	4476.7	4421.1	4365.4	4309.8	4254.1	4347.1	4439.3	4532.4	4624.6	4791.5
37.5°	5353.6	5254.2	5154.1	5053.9	4952.9	4852.7	4907.6	4962.5	5017.3	5072.2	5229.6
40°	5945.9	5778.1	5761.4	5745.5	5728.8	5712.1	5716.9	5720.9	5725.7	5730.4	5864.8
42.5°	6998.5	6860.1	6775.1	6690.0	6604.9	6519.9	6514.3	6508.7	6502.4	6496.8	6597.8
45°	8140.9	8038.3	7974.7	7911.1	7846.8	7783.2	7682.2	7581.2	7479.5	7378.5	7466.7
47.5°	9136.3	9141.8	9257.1	9371.6	9486.9	9602.1	9429.6	9257.1	9084.6	8912.1	8798.4
50°	10465.5	10700.8	10728.7	10755.7	10783.5	10811.3	10518.8	10227.0	9934.4	9641.9	9522.6
52.5°	11395.7	11726.4	11683.5	11641.3	11598.4	11555.5	11386.1	11217.6	11048.3	10878.9	10619.0
55°	11968.1	12336.2	12303.6	12271.8	12239.2	12206.6	12083.4	11960.1	11836.9	11713.7	11428.3
57.5°	12299.6	12649.4	12659.0	12668.5	12678.0	12687.6	12655.0	12622.4	12589.8	12557.2	12185.9
60°	12411.7	12790.9	12794.9	12798.1	12802.1	12805.2	12753.6	12701.9	12649.4	12597.7	12355.3
62.5°	12065.9	12404.5	12419.7	12434.0	12449.1	12464.2	12428.4	12392.6	12356.8	12321.1	12141.4
65°	11545.1	11757.4	11761.4	11764.6	11768.5	11772.5	11681.9	11592.0	11501.4	11410.8	11367.9
67.5°	9998.8	10013.2	10097.4	10181.7	10266.0	10350.2	10357.4	10364.6	10372.5	10379.7	10317.6
70°	8074.1	7991.4	8082.9	8174.3	8265.7	8357.1	8396.1	8435.1	8474.8	8513.8	8542.4
72.5°	6286.9	6149.4	6217.0	6284.6	6352.9	6420.5	6362.5	6304.4	6246.4	6188.4	6372.0
75°	4773.2	4603.9	4595.2	4587.2	4578.5	4570.5	4541.1	4511.7	4481.5	4452.1	4623.8
77.5°	3655.5	3545.7	3551.3	3556.1	3561.6	3566.4	3536.2	3506.8	3476.6	3446.4	3512.4
80°	3029.8	3059.2	3060.0	3060.8	3061.6	3062.4	3033.8	3005.9	2977.3	2948.7	2901.0
82.5°	2428.8	2507.5	2506.7	2506.7	2505.9	2505.1	2503.5	2501.9	2499.5	2497.9	2420.0
85°	1740.3	1792.7	1738.7	1684.6	1630.6	1576.5	1616.3	1656.0	1696.6	1736.3	1703.7
87.5°	589.1	539.8	475.4	411.8	347.4	283.0	352.2	421.4	491.3	560.5	600.2
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: P368570  
 CATALOG NUMBER: MSA-SA4C-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

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



REPORT NUMBER: P368570

CATALOG NUMBER: MSA-SA4C-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6
2.5°	2084.5	2076.6	2069.4	2019.3	1968.4	1918.4	1867.5	1959.7	2052.7	2144.9	2237.2
5°	2642.6	2625.9	2610.0	2606.0	2602.1	2597.3	2593.3	2640.2	2687.1	2733.2	2780.2
7.5°	2995.6	2982.9	2970.2	2936.8	2904.2	2870.8	2837.4	2866.0	2893.8	2922.5	2950.3
10°	3264.3	3236.5	3208.7	3136.3	3064.8	2992.4	2920.1	2898.6	2877.1	2855.7	2834.2
12.5°	3609.3	3541.0	3473.4	3391.5	3308.8	3226.9	3144.3	3133.1	3122.0	3111.7	3100.5
15°	3878.9	3857.4	3835.9	3770.7	3705.5	3640.4	3575.2	3487.7	3399.5	3312.0	3224.6
17.5°	3876.5	3842.3	3808.9	3896.3	3983.0	4070.5	4157.1	4064.1	3970.3	3877.3	3784.2
20°	3997.3	3977.4	3958.4	4119.7	4280.3	4441.7	4602.3	4551.4	4499.8	4448.9	4397.2
22.5°	4315.3	4391.6	4467.2	4605.5	4743.0	4881.4	5018.9	5076.9	5135.0	5193.0	5251.0
25°	4649.2	4773.2	4897.3	5103.2	5308.3	5514.2	5720.1	5761.4	5802.8	5844.1	5885.5
27.5°	4515.7	4642.1	4768.5	4924.3	5079.3	5235.1	5390.2	5571.4	5753.5	5934.8	6116.0
30°	4472.7	4612.7	4751.8	4965.6	5178.7	5392.6	5606.4	5856.0	6105.7	6354.5	6604.2
32.5°	4508.5	4705.7	4902.8	5192.2	5480.8	5770.2	6059.6	6321.9	6585.1	6847.4	7109.8
35°	4957.7	5124.6	5290.8	5614.4	5937.9	6261.5	6585.1	6892.7	7200.4	7507.3	7815.0
37.5°	5386.2	5543.6	5701.0	6031.7	6361.7	6692.4	7023.1	7508.9	7995.4	8481.2	8966.9
40°	5998.4	6132.7	6266.3	6549.3	6832.3	7115.3	7398.4	7984.3	8570.2	9156.1	9742.1
42.5°	6698.0	6798.9	6899.1	7192.5	7485.8	7779.2	8072.5	8710.1	9348.5	9986.1	10623.7
45°	7554.2	7642.4	7730.7	7932.6	8134.5	8337.3	8539.2	9196.7	9854.2	10511.6	11169.1
47.5°	8684.7	8571.0	8457.3	8556.7	8656.1	8755.4	8854.8	9505.1	10155.5	10805.0	11455.3
50°	9403.4	9284.1	9164.9	9173.6	9181.6	9190.3	9199.1	9805.7	10412.3	11018.0	11624.6
52.5°	10359.0	10098.2	9838.3	9835.9	9833.5	9830.3	9827.9	10356.6	10886.1	11414.8	11943.4
55°	11142.9	10857.5	10572.0	10516.4	10460.7	10404.3	10348.7	10871.8	11394.1	11917.2	12439.5
57.5°	11814.6	11442.6	11071.3	10983.9	10896.4	10809.0	10721.5	11285.2	11849.6	12413.3	12977.0
60°	12113.6	11871.1	11629.4	11522.1	11414.8	11307.4	11200.1	11680.3	12160.5	12639.9	13120.1
62.5°	11962.5	11782.8	11604.0	11628.6	11653.3	11677.9	11702.6	11976.8	12251.9	12526.2	12800.5
65°	11325.7	11282.8	11240.7	11439.4	11638.2	11836.9	12035.7	12039.6	12043.6	12047.6	12051.6
67.5°	10255.6	10193.6	10131.6	10545.0	10957.6	11371.0	11784.4	11588.1	11391.7	11196.1	10999.8
70°	8570.2	8598.8	8626.7	9189.5	9751.6	10314.5	10877.3	10592.7	10307.3	10022.7	9737.3
72.5°	6555.7	6740.1	6923.7	7507.3	8090.8	8674.4	9257.9	8932.7	8606.8	8281.6	7955.7
75°	4795.5	4967.2	5138.9	5715.3	6291.7	6868.9	7445.3	7058.9	6672.5	6286.9	5900.6
77.5°	3578.3	3645.1	3711.1	4190.5	4669.1	5148.5	5627.1	5239.1	4851.2	4464.0	4076.0
80°	2854.1	2806.4	2759.5	3025.0	3290.5	3556.1	3821.6	3546.5	3270.7	2995.6	2720.5
82.5°	2342.9	2265.0	2187.9	2286.4	2385.0	2484.4	2583.0	2362.8	2142.6	1922.3	1702.1
85°	1671.1	1638.5	1605.9	1634.5	1662.4	1691.0	1719.6	1505.0	1290.3	1076.4	861.8
87.5°	639.2	678.9	718.7	764.0	808.5	853.8	898.4	703.6	508.8	314.8	120.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P368570  
 CATALOG NUMBER: MSA-SA4C-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

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





REPORT NUMBER: P368570  
 CATALOG NUMBER: MSA-SA4C-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	357.5°	360°
0°	1727.6	1727.6
2.5°	2275.3	2313.5
5°	2779.4	2778.6
7.5°	2937.6	2924.0
10°	2799.2	2764.3
12.5°	2997.2	2893.0
15°	3121.2	3017.1
17.5°	3627.6	3470.2
20°	4210.4	4022.8
22.5°	4965.6	4680.2
25°	5544.4	5202.5
27.5°	5913.3	5709.8
30°	6371.2	6138.3
32.5°	6938.1	6765.5
35°	7657.5	7499.3
37.5°	8917.6	8867.5
40°	9682.4	9622.0
42.5°	10626.1	10627.7
45°	11204.9	11240.7
47.5°	11545.9	11635.8
50°	11817.8	12010.2
52.5°	12206.6	12469.7
55°	12789.3	13138.3
57.5°	13274.3	13571.6
60°	13274.3	13427.7
62.5°	12796.5	12791.7
65°	11977.6	11902.9
67.5°	10906.0	10812.1
70°	9591.0	9443.9
72.5°	7773.6	7590.8
75°	5650.1	5398.9
77.5°	3956.8	3836.7
80°	2778.6	2836.6
82.5°	1784.8	1867.5
85°	849.1	836.4
87.5°	100.2	80.3
90°	0.0	0.0
92.5°	0.0	0.0
95°	0.0	0.0
97.5°	0.0	0.0
100°	0.0	0.0
102.5°	0.0	0.0
105°	0.0	0.0
107.5°	0.0	0.0
110°	0.0	0.0



REPORT NUMBER: P368570  
CATALOG NUMBER: MSA-SA4C-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

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

(END OF REPORT)