

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: P368569

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

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P368569
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-25)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA4C-830-U-SLR-HSS
Description: MESA POST TOP DECORATIVE LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13948 lumens
Efficiency: N/A
Efficacy: 62.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

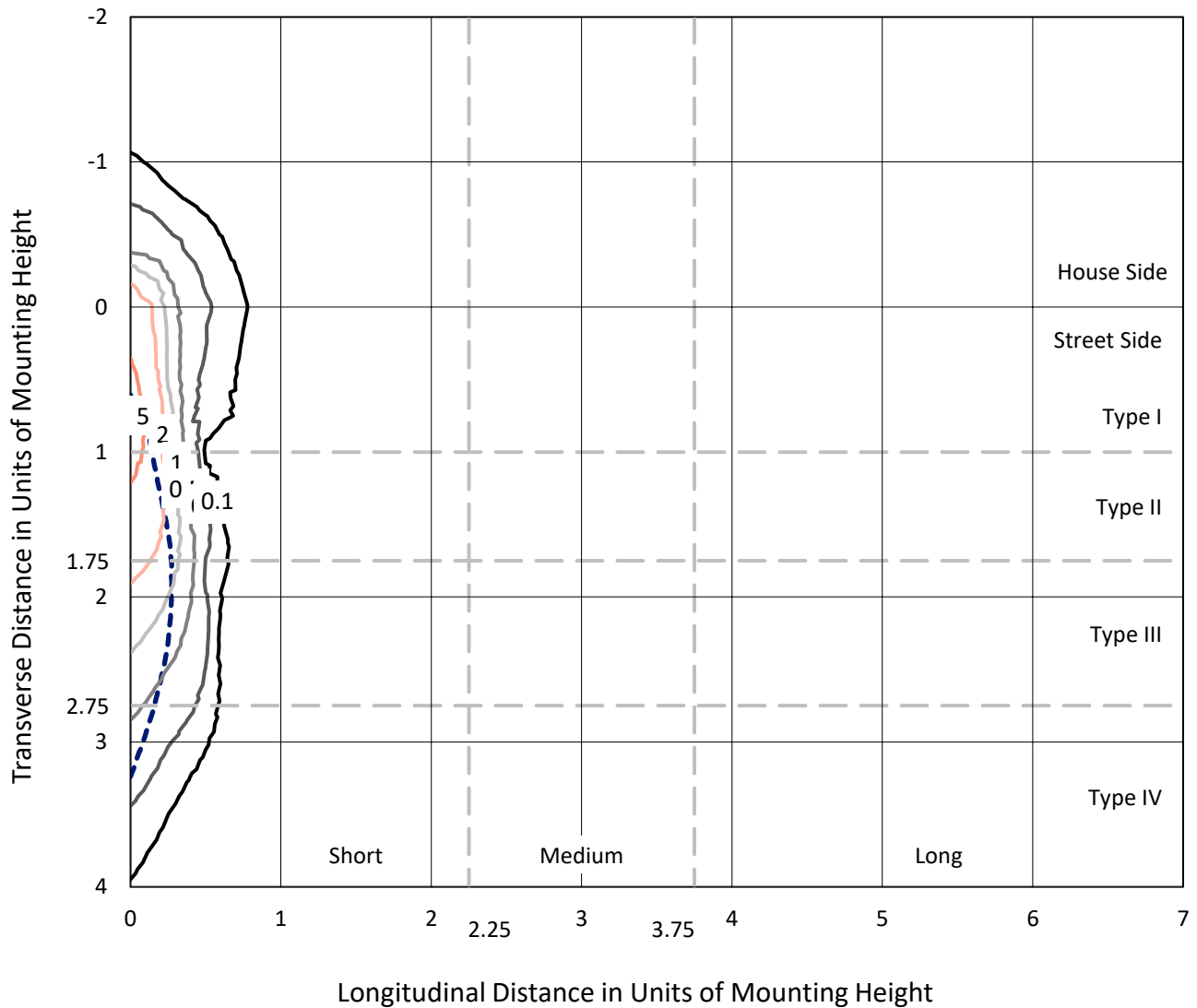
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

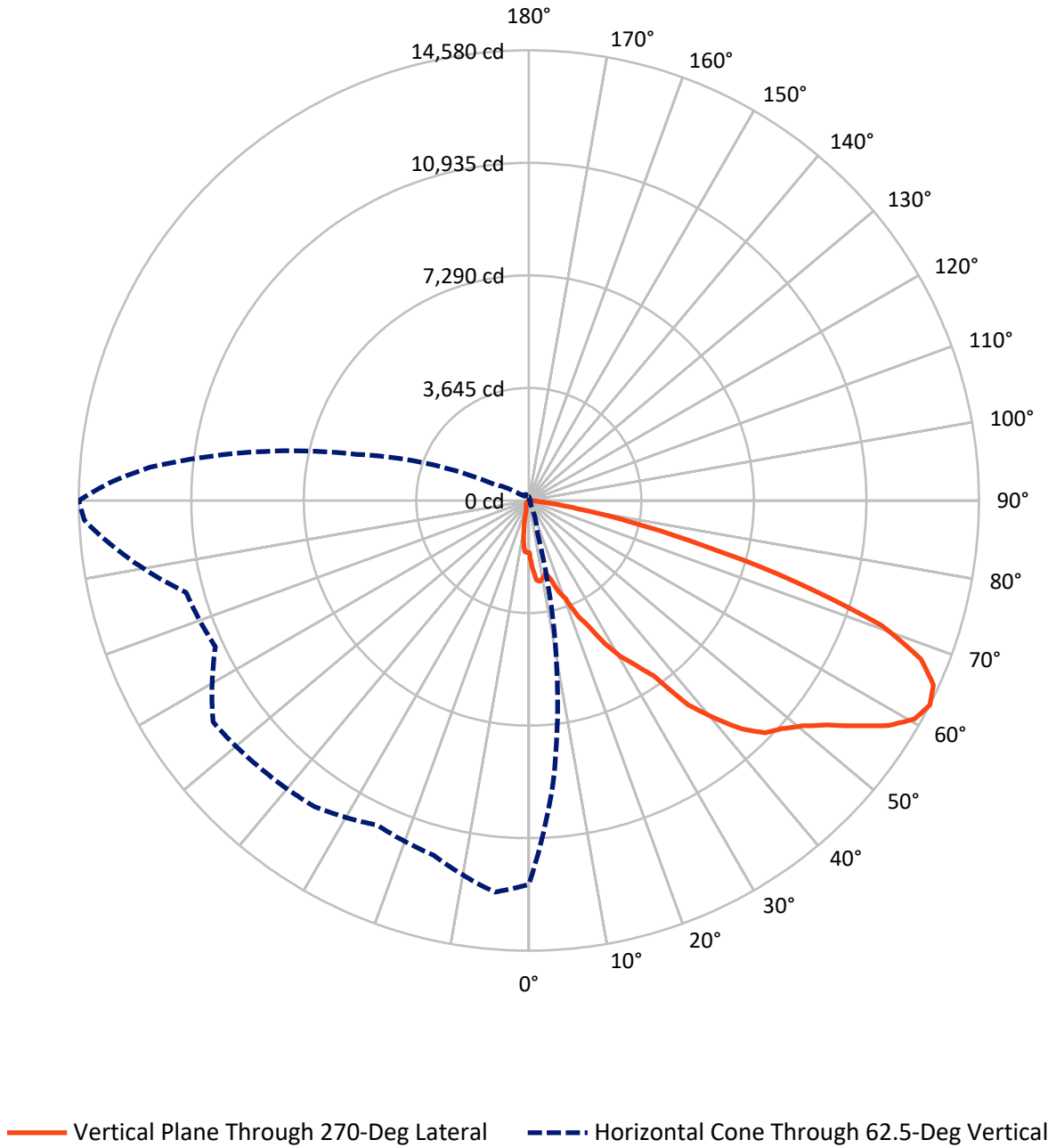
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2329.1	0.0	2329.1
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	11618.9	0.0	11618.9
	% Fixture	83.3	0.0	83.3
Total	Lumens	13948.0	0.0	13948.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.8	1.3
10°-20°	490.6	3.5
20°-30°	792.9	5.7
30°-40°	1328.0	9.5
40°-50°	2170.9	15.6
50°-60°	3213.7	23.0
60°-70°	3689.4	26.5
70°-80°	1824.2	13.1
80°-90°	250.6	1.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	13948.0	100.0
0°-180°	13948.0	100.0

Coefficient of Utilization

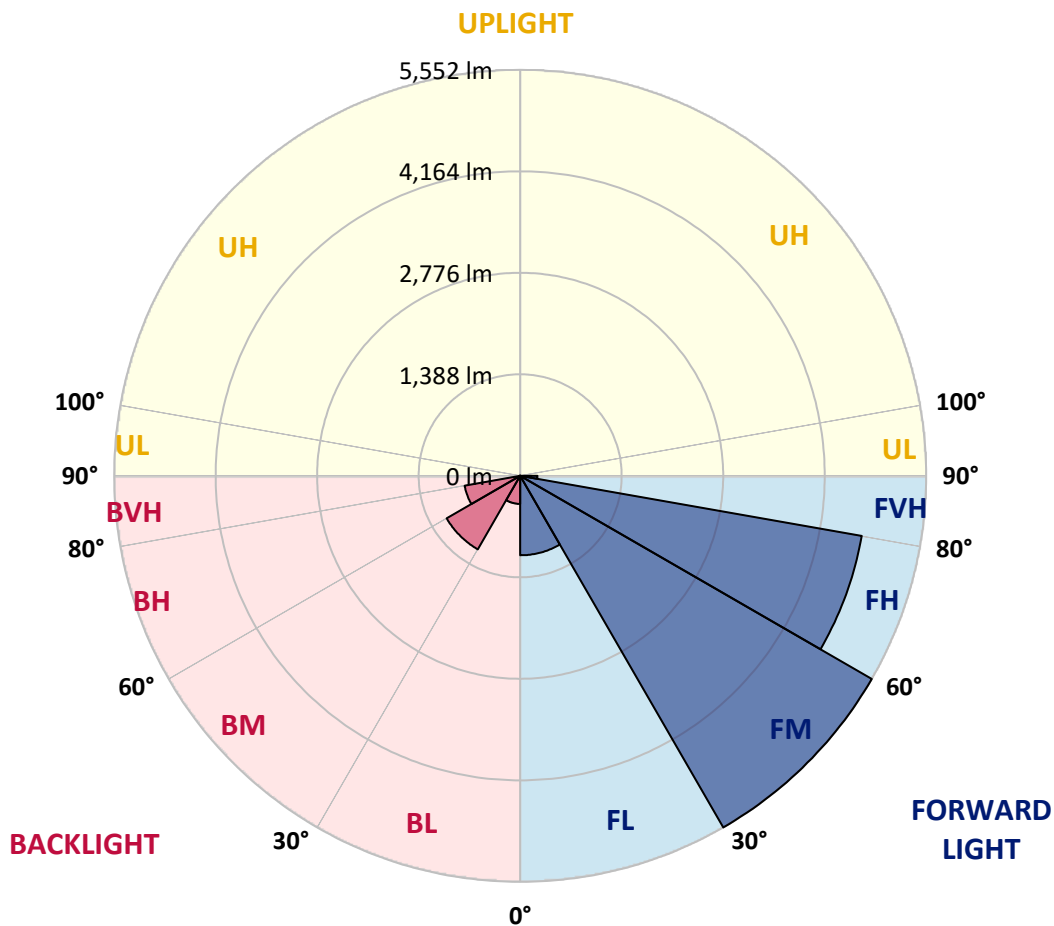


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1086.6	7.8			
FM (30°-60°)	5552.0	39.8			
FH (60°-80°)	4743.0	34.0			G2/5000
FVH (80°-90°)	237.2	1.7			G3/500
BL (0°-30°)	384.6	2.8	B1/500		
BM (30°-60°)	1160.6	8.3	B2/2500		
BH (60°-80°)	770.6	5.5	B2/1000		G2/1000
BVH (80°-90°)	13.3	0.1			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°	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8
2.5°	2228.6	2256.4	2283.5	2231.8	2180.1	2128.4	2076.7	2030.6	1984.5	1937.6	1891.5
5°	2867.9	2817.0	2766.1	2696.1	2626.1	2556.2	2486.2	2453.6	2421.0	2388.4	2355.8
7.5°	3090.5	2999.8	2908.4	2846.4	2785.2	2723.1	2661.1	2563.3	2464.7	2367.0	2268.4
10°	2915.6	2819.4	2722.4	2668.3	2614.2	2560.2	2506.1	2384.4	2262.0	2140.4	2017.9
12.5°	2995.9	2891.7	2787.6	2676.2	2564.9	2453.6	2342.3	2249.3	2155.5	2062.4	1968.6
15°	3051.5	2932.3	2812.2	2685.0	2557.8	2430.6	2303.3	2193.6	2084.7	1975.0	1865.3
17.5°	3378.3	3207.4	3036.4	2840.8	2645.2	2449.6	2254.1	2126.8	2000.4	1873.2	1746.0
20°	3798.1	3555.6	3312.3	3047.5	2782.8	2518.0	2253.3	2095.0	1936.8	1778.6	1620.4
22.5°	4286.3	3983.4	3679.6	3352.9	3026.9	2700.1	2373.3	2145.9	1918.5	1691.1	1463.7
25°	4777.6	4504.1	4230.6	3790.9	3351.3	2910.8	2471.1	2182.5	1893.1	1604.5	1315.1
27.5°	5664.9	5176.0	4687.0	4127.3	3568.3	3008.6	2448.8	2118.1	1787.3	1455.8	1125.0
30°	6245.4	5869.3	5492.4	4753.0	4014.4	3274.9	2535.5	2116.5	1697.5	1277.7	858.7
32.5°	6939.5	6389.3	5838.3	5036.0	4233.8	3431.6	2629.3	2137.2	1644.2	1152.1	659.1
35°	7719.4	7120.7	6522.0	5505.9	4489.8	3472.9	2456.8	1979.7	1502.7	1025.7	548.6
37.5°	9097.3	8095.5	7093.7	5909.0	4723.6	3538.9	2353.4	1877.2	1400.1	923.9	446.8
40°	9879.7	8923.2	7966.7	6486.3	5005.8	3525.4	2044.9	1622.0	1199.8	776.8	353.8
42.5°	10897.4	9684.1	8470.0	6815.4	5160.9	3506.3	1851.7	1460.6	1069.4	677.4	286.2
45°	11500.8	10126.1	8751.4	6958.5	5165.6	3372.7	1579.8	1241.1	902.4	563.7	225.0
47.5°	11881.7	10503.0	9124.3	7199.5	5275.4	3350.5	1425.6	1113.9	802.2	490.6	178.9
50°	12074.9	10692.2	9308.8	7330.6	5352.5	3373.5	1395.4	1085.3	774.4	464.3	153.5
52.5°	12276.0	10942.7	9608.5	7558.0	5507.5	3457.0	1406.5	1090.1	774.4	458.0	141.5
55°	12682.3	11367.3	10051.4	7884.0	5716.6	3549.2	1381.8	1070.2	758.5	446.0	134.4
57.5°	13181.6	11775.9	10369.4	8122.5	5875.6	3628.7	1381.8	1068.6	755.3	441.3	128.0
60°	13087.0	11561.3	10034.7	7854.6	5674.5	3493.6	1313.5	1015.3	718.0	419.8	121.6
62.5°	12437.4	10781.3	9124.3	7109.6	5094.1	3079.3	1063.8	826.1	588.4	349.8	112.1
65°	11674.2	9916.2	8157.5	6303.4	4448.5	2594.3	739.4	580.4	420.6	261.6	101.8
67.5°	10755.0	8880.2	7005.5	5356.5	3708.3	2059.3	410.3	330.8	251.2	170.9	91.4
70°	9160.1	7224.9	5288.9	4021.5	2755.0	1487.6	220.2	186.0	151.9	117.7	83.5
72.5°	6876.6	5103.6	3330.6	2529.9	1730.1	929.4	128.8	116.1	102.6	89.8	76.3
75°	4679.0	3350.5	2021.9	1539.3	1057.5	574.8	92.2	85.9	78.7	72.4	65.2
77.5°	3181.1	2301.0	1420.8	1084.5	748.2	411.9	75.5	71.6	67.6	62.8	58.8
80°	1986.1	1359.6	733.1	564.5	395.2	226.6	57.2	54.9	52.5	49.3	46.9
82.5°	1389.0	830.9	272.7	213.1	153.5	93.0	33.4	34.2	35.0	35.0	35.8
85°	582.8	314.9	46.9	39.8	32.6	25.4	18.3	19.9	22.3	23.9	25.4
87.5°	10.3	5.6	0.0	1.6	4.0	5.6	7.2	9.5	11.1	13.5	15.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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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°	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8
2.5°	1903.4	1915.3	1926.5	1938.4	1928.9	1920.1	1910.6	1901.0	1886.7	1873.2	1858.9
5°	2316.1	2276.3	2236.6	2196.8	2136.4	2076.0	2014.7	1954.3	1947.2	1940.0	1932.0
7.5°	2175.3	2082.3	1988.5	1895.5	1808.0	1720.6	1633.1	1545.6	1518.6	1492.4	1465.3
10°	1946.4	1874.8	1802.4	1730.9	1668.1	1604.5	1541.7	1478.1	1412.1	1346.1	1279.3
12.5°	1893.9	1819.1	1743.6	1668.9	1611.6	1554.4	1497.1	1439.9	1365.9	1292.0	1218.1
15°	1784.2	1703.1	1622.0	1540.9	1464.5	1388.2	1311.1	1234.8	1145.7	1056.7	967.6
17.5°	1649.8	1554.4	1458.2	1362.0	1261.8	1161.6	1061.4	961.3	858.7	756.9	654.4
20°	1490.0	1359.6	1228.4	1098.0	974.0	849.9	725.1	601.1	536.7	473.1	408.7
22.5°	1295.2	1125.8	957.3	787.9	686.2	583.6	481.8	379.3	351.4	323.6	295.8
25°	1123.4	931.8	740.2	548.6	484.2	419.8	355.4	291.0	278.3	264.8	252.0
27.5°	944.6	764.9	584.4	403.9	367.3	330.0	293.4	256.0	247.3	239.3	230.6
30°	724.3	589.9	454.8	320.4	296.6	272.7	248.1	224.2	220.2	215.5	211.5
32.5°	561.3	462.7	364.9	266.4	252.8	239.3	225.8	212.3	205.9	199.6	192.4
35°	469.1	390.4	310.9	231.4	221.8	211.5	202.0	191.6	185.3	178.1	171.7
37.5°	388.8	331.5	273.5	215.5	205.1	194.8	183.7	173.3	168.6	163.8	159.0
40°	320.4	287.0	253.6	220.2	205.1	190.0	174.9	159.8	155.8	151.9	147.9
42.5°	264.8	243.3	221.0	199.6	188.4	178.1	167.0	155.8	150.3	143.9	138.3
45°	213.9	202.0	190.8	178.9	179.7	180.5	180.5	181.3	167.0	151.9	137.5
47.5°	173.3	167.8	161.4	155.8	162.2	168.6	174.1	180.5	165.4	150.3	134.4
50°	148.7	144.7	139.9	135.2	141.5	148.7	155.0	161.4	155.0	149.5	143.1
52.5°	136.0	130.4	124.8	119.3	121.6	124.8	127.2	129.6	129.6	129.6	129.6
55°	128.0	122.4	116.1	109.7	107.3	104.2	101.8	98.6	94.6	91.4	87.5
57.5°	121.6	115.3	108.1	101.8	97.8	93.0	89.0	84.3	80.3	75.5	71.6
60°	115.3	108.9	101.8	95.4	91.4	87.5	82.7	78.7	73.9	70.0	65.2
62.5°	106.5	101.0	95.4	89.8	85.9	82.7	78.7	74.7	70.0	65.2	59.6
65°	97.0	93.0	88.3	83.5	79.5	75.5	71.6	67.6	62.8	58.8	54.1
67.5°	88.3	84.3	81.1	77.1	72.4	68.4	63.6	58.8	55.7	52.5	48.5
70°	81.1	77.9	75.5	72.4	67.6	63.6	58.8	54.1	51.7	48.5	46.1
72.5°	73.9	71.6	68.4	66.0	62.0	58.0	54.1	50.1	47.7	45.3	42.9
75°	63.6	62.0	60.4	58.8	54.9	50.9	46.1	42.1	41.3	40.5	39.8
77.5°	57.2	56.5	54.9	53.3	49.3	45.3	41.3	37.4	38.2	39.0	39.0
80°	46.9	46.9	46.1	46.1	42.9	39.8	35.8	32.6	34.2	36.6	38.2
82.5°	35.8	35.8	35.8	35.8	32.6	29.4	26.2	23.1	25.4	27.0	29.4
85°	24.6	23.9	23.1	22.3	19.9	18.3	15.9	13.5	16.7	19.1	22.3
87.5°	15.1	15.9	15.9	15.9	14.3	11.9	10.3	8.0	9.5	10.3	11.9
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



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

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P368569
 CATALOG NUMBER: MSA-SA4C-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8
2.5°	1844.6	1820.7	1796.9	1772.2	1748.4	1692.7	1637.1	1581.4	1525.8	1567.1	1607.7
5°	1924.9	1878.8	1831.9	1785.7	1738.8	1718.2	1698.3	1677.6	1656.9	1660.1	1664.1
7.5°	1438.3	1408.1	1377.9	1346.9	1316.7	1310.3	1304.7	1298.4	1292.0	1305.5	1318.2
10°	1213.3	1171.2	1128.2	1086.1	1043.1	1020.1	997.0	974.0	950.9	948.5	945.4
12.5°	1144.1	1079.7	1016.1	951.7	887.3	837.2	787.1	737.0	686.9	690.9	694.9
15°	878.6	814.2	750.6	686.2	621.8	581.2	539.9	499.3	458.0	446.0	434.1
17.5°	551.8	504.1	456.4	407.9	360.2	346.7	333.9	320.4	306.9	302.9	299.0
20°	344.3	323.6	302.9	281.5	260.8	257.6	254.4	251.2	248.1	250.5	252.8
22.5°	267.9	259.2	249.7	240.9	231.4	228.2	225.0	221.8	218.6	221.0	222.6
25°	238.5	232.2	225.8	219.4	213.1	209.9	205.9	202.7	198.8	200.4	202.7
27.5°	221.8	216.3	210.7	205.1	199.6	194.0	189.2	183.7	178.1	181.3	183.7
30°	206.7	200.4	194.8	188.4	182.1	176.5	170.9	164.6	159.0	162.2	165.4
32.5°	186.0	180.5	174.1	168.6	162.2	159.0	155.8	151.9	148.7	151.1	152.7
35°	164.6	159.8	155.8	151.1	146.3	143.1	140.7	137.5	134.4	135.2	136.8
37.5°	154.2	148.7	143.1	137.5	132.0	130.4	128.8	126.4	124.8	124.8	124.8
40°	143.9	138.3	132.8	126.4	120.9	118.5	116.1	113.7	111.3	111.3	111.3
42.5°	132.0	126.4	120.9	115.3	109.7	107.3	104.2	101.8	98.6	98.6	98.6
45°	122.4	116.9	112.1	106.5	101.0	97.0	93.0	88.3	84.3	83.5	82.7
47.5°	119.3	111.3	103.4	95.4	87.5	83.5	79.5	74.7	70.8	70.0	69.2
50°	136.8	120.9	105.0	89.0	73.1	70.0	66.8	63.6	60.4	58.8	58.0
52.5°	129.6	112.9	96.2	79.5	62.8	60.4	58.0	55.7	53.3	51.7	50.1
55°	83.5	76.3	70.0	62.8	55.7	54.1	52.5	50.1	48.5	46.9	45.3
57.5°	66.8	62.8	59.6	55.7	51.7	50.1	48.5	46.1	44.5	42.1	40.5
60°	60.4	57.2	54.1	50.9	47.7	46.1	44.5	42.9	41.3	39.0	37.4
62.5°	54.9	52.5	50.1	47.7	45.3	43.7	42.1	40.5	39.0	36.6	34.2
65°	49.3	47.7	46.1	44.5	42.9	41.3	39.8	37.4	35.8	33.4	31.0
67.5°	45.3	44.5	43.7	42.9	42.1	40.5	38.2	36.6	34.2	31.8	28.6
70°	42.9	42.9	42.9	42.1	42.1	40.5	38.2	36.6	34.2	31.0	28.6
72.5°	40.5	41.3	42.1	42.1	42.9	40.5	38.2	35.8	33.4	30.2	27.8
75°	39.0	39.8	40.5	40.5	41.3	39.8	38.2	35.8	34.2	31.0	27.8
77.5°	39.8	40.5	40.5	41.3	41.3	39.8	38.2	35.8	34.2	30.2	26.2
80°	39.8	39.0	38.2	36.6	35.8	32.6	29.4	25.4	22.3	17.5	13.5
82.5°	31.0	29.4	28.6	27.0	25.4	22.3	19.1	15.9	12.7	9.5	6.4
85°	24.6	23.1	22.3	20.7	19.1	16.7	13.5	11.1	8.0	6.4	4.0
87.5°	12.7	11.9	10.3	9.5	8.0	6.4	4.0	2.4	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P368569
 CATALOG NUMBER: MSA-SA4C-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P368569
 CATALOG NUMBER: MSA-SA4C-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8
2.5°	1649.0	1689.5	1684.0	1678.4	1704.7	1730.9	1711.8	1693.5	1674.4	1655.4	1615.6
5°	1667.3	1670.5	1664.9	1658.5	1659.3	1660.1	1647.4	1634.7	1622.0	1609.2	1606.9
7.5°	1331.8	1344.5	1362.0	1378.7	1379.5	1379.5	1369.9	1360.4	1350.0	1340.5	1345.3
10°	943.0	939.8	944.6	949.3	948.5	946.9	972.4	997.8	1022.5	1047.9	1029.6
12.5°	698.1	702.1	682.2	662.3	669.5	675.8	679.8	683.8	687.7	691.7	702.9
15°	422.2	410.3	395.9	381.6	388.8	395.2	402.3	408.7	415.8	422.2	429.3
17.5°	294.2	290.2	283.8	276.7	277.5	278.3	279.1	279.9	279.9	280.7	282.3
20°	255.2	257.6	252.8	247.3	245.7	243.3	241.7	240.1	237.7	236.1	233.8
22.5°	225.0	226.6	227.4	227.4	224.2	220.2	217.1	214.7	211.5	208.3	206.7
25°	204.3	205.9	204.3	202.0	200.4	198.8	197.2	194.8	193.2	190.8	190.0
27.5°	186.8	189.2	189.2	188.4	186.8	184.5	180.5	177.3	173.3	169.4	170.1
30°	168.6	171.7	171.7	170.9	170.1	169.4	165.4	161.4	157.4	153.5	155.0
32.5°	155.0	156.6	155.8	155.0	155.0	154.2	151.1	148.7	145.5	142.3	142.3
35°	137.5	138.3	138.3	138.3	138.3	137.5	135.2	132.8	130.4	128.0	128.8
37.5°	124.8	124.8	127.2	128.8	127.2	125.6	124.0	121.6	120.1	117.7	117.7
40°	110.5	110.5	112.9	114.5	112.9	111.3	110.5	108.9	108.1	106.5	106.5
42.5°	97.8	97.8	100.2	101.8	101.8	101.0	99.4	97.8	96.2	94.6	95.4
45°	81.9	81.1	85.1	88.3	86.7	85.1	85.1	84.3	84.3	83.5	84.3
47.5°	67.6	66.8	70.0	73.1	72.4	70.8	70.8	70.8	70.8	70.8	71.6
50°	56.5	54.9	58.0	60.4	59.6	58.0	58.0	58.8	58.8	58.8	59.6
52.5°	48.5	46.9	49.3	50.9	50.1	49.3	49.3	50.1	50.1	50.1	50.9
55°	42.9	41.3	43.7	45.3	44.5	42.9	43.7	43.7	44.5	44.5	44.5
57.5°	38.2	35.8	37.4	39.0	39.0	38.2	39.0	39.0	39.8	39.8	39.8
60°	35.0	32.6	34.2	35.0	35.0	34.2	35.0	35.0	35.8	35.8	35.8
62.5°	31.0	28.6	30.2	31.0	31.0	30.2	31.0	31.0	31.8	31.8	31.8
65°	27.8	25.4	26.2	27.0	27.0	27.0	27.8	27.8	28.6	28.6	28.6
67.5°	26.2	23.1	23.9	24.6	24.6	24.6	25.4	25.4	26.2	26.2	27.0
70°	25.4	22.3	23.1	23.1	23.9	23.9	23.9	24.6	24.6	24.6	24.6
72.5°	24.6	21.5	21.5	21.5	22.3	22.3	22.3	23.1	23.1	23.1	23.1
75°	24.6	21.5	20.7	19.9	20.7	20.7	20.7	21.5	21.5	21.5	21.5
77.5°	21.5	17.5	15.9	13.5	15.9	17.5	18.3	18.3	19.1	19.1	19.1
80°	8.7	4.0	2.4	0.0	0.8	1.6	2.4	3.2	4.0	4.8	5.6
82.5°	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P368569
 CATALOG NUMBER: MSA-SA4C-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P368569
 CATALOG NUMBER: MSA-SA4C-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8
2.5°	1575.8	1536.1	1496.3	1515.4	1534.5	1553.6	1572.7	1571.1	1568.7	1567.1	1564.7
5°	1605.3	1602.9	1600.5	1589.4	1579.0	1567.9	1556.8	1554.4	1551.2	1548.8	1545.6
7.5°	1350.0	1354.0	1358.8	1346.1	1333.3	1320.6	1307.9	1275.3	1242.7	1209.3	1176.7
10°	1011.3	992.3	974.0	972.4	970.8	969.2	967.6	964.4	961.3	957.3	954.1
12.5°	714.8	725.9	737.0	733.1	729.1	724.3	720.3	725.9	732.3	737.8	743.4
15°	435.7	442.9	449.2	463.5	477.8	492.2	506.5	512.0	518.4	524.0	529.5
17.5°	283.8	284.6	286.2	302.1	317.2	333.1	348.2	358.6	368.9	378.5	388.8
20°	231.4	229.0	226.6	235.3	244.1	252.8	261.6	271.1	280.7	290.2	299.7
22.5°	205.9	204.3	202.7	205.9	209.1	211.5	214.7	221.8	229.8	236.9	244.1
25°	189.2	187.6	186.8	188.4	190.0	191.6	193.2	197.2	201.2	205.1	209.1
27.5°	170.1	170.9	170.9	172.5	173.3	174.9	175.7	177.3	179.7	181.3	182.9
30°	155.8	157.4	158.2	159.8	160.6	162.2	163.0	162.2	161.4	160.6	159.8
32.5°	142.3	141.5	141.5	143.1	143.9	145.5	146.3	147.9	149.5	150.3	151.9
35°	128.8	129.6	129.6	129.6	130.4	130.4	130.4	132.0	134.4	136.0	137.5
37.5°	116.9	116.9	116.1	118.5	120.1	122.4	124.0	125.6	128.0	129.6	131.2
40°	106.5	106.5	106.5	108.1	109.7	110.5	112.1	116.1	120.1	124.0	128.0
42.5°	95.4	96.2	96.2	97.8	99.4	100.2	101.8	105.0	107.3	110.5	112.9
45°	85.1	85.9	86.7	88.3	89.0	90.6	91.4	93.0	93.8	95.4	96.2
47.5°	73.1	73.9	74.7	76.3	77.1	78.7	79.5	78.7	78.7	77.9	77.1
50°	61.2	62.0	62.8	65.2	66.8	69.2	70.8	69.2	67.6	65.2	63.6
52.5°	51.7	51.7	52.5	54.1	55.7	56.5	58.0	57.2	56.5	55.7	54.9
55°	44.5	44.5	44.5	45.3	46.1	46.9	47.7	48.5	48.5	49.3	49.3
57.5°	39.8	39.0	39.0	39.8	40.5	40.5	41.3	42.1	42.1	42.9	42.9
60°	35.8	35.0	35.0	35.8	36.6	37.4	38.2	38.2	38.2	37.4	37.4
62.5°	31.8	31.8	31.8	32.6	32.6	33.4	33.4	33.4	34.2	34.2	34.2
65°	29.4	29.4	29.4	29.4	29.4	28.6	28.6	29.4	29.4	30.2	30.2
67.5°	27.0	27.8	27.8	27.0	26.2	25.4	24.6	25.4	25.4	26.2	26.2
70°	24.6	24.6	24.6	23.9	23.1	22.3	21.5	21.5	21.5	20.7	20.7
72.5°	23.1	22.3	22.3	21.5	19.9	19.1	17.5	16.7	16.7	15.9	15.1
75°	21.5	20.7	20.7	19.1	17.5	15.9	14.3	13.5	11.9	11.1	9.5
77.5°	19.1	19.1	19.1	16.7	15.1	12.7	10.3	8.7	7.2	4.8	3.2
80°	6.4	7.2	8.0	7.2	7.2	6.4	5.6	4.0	3.2	1.6	0.0
82.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P368569
 CATALOG NUMBER: MSA-SA4C-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P368569
 CATALOG NUMBER: MSA-SA4C-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8
2.5°	1573.5	1582.2	1591.0	1599.7	1600.5	1601.3	1602.1	1602.9	1583.0	1562.3	1542.5
5°	1561.5	1578.2	1594.1	1610.0	1601.3	1592.5	1583.8	1575.1	1574.3	1574.3	1573.5
7.5°	1179.1	1180.7	1183.1	1184.7	1187.8	1191.0	1193.4	1196.6	1209.3	1222.0	1234.0
10°	943.8	933.4	922.3	912.0	904.0	895.3	887.3	878.6	884.9	892.1	898.4
12.5°	734.7	725.9	716.4	707.6	704.4	701.3	697.3	694.1	714.8	735.4	755.3
15°	527.9	526.3	524.0	522.4	532.7	543.0	553.4	563.7	581.2	597.9	615.4
17.5°	392.8	396.7	400.7	404.7	411.1	417.4	423.0	429.3	442.1	455.6	468.3
20°	304.5	310.1	314.9	319.6	318.0	316.4	314.1	312.5	322.8	333.1	342.7
22.5°	248.9	252.8	257.6	261.6	262.4	263.2	264.0	264.8	271.1	276.7	283.0
25°	213.1	217.9	221.8	225.8	226.6	227.4	228.2	229.0	236.9	244.9	252.0
27.5°	188.4	193.2	198.8	203.5	205.1	206.7	208.3	209.9	214.7	218.6	223.4
30°	166.2	172.5	178.9	185.3	187.6	190.0	192.4	194.8	199.6	205.1	209.9
32.5°	155.0	159.0	162.2	165.4	170.9	175.7	181.3	186.0	191.6	198.0	203.5
35°	142.3	146.3	151.1	155.0	159.0	163.0	166.2	170.1	173.3	176.5	178.9
37.5°	134.4	138.3	141.5	144.7	146.3	147.9	148.7	150.3	151.9	153.5	154.2
40°	128.0	127.2	127.2	126.4	128.0	130.4	132.0	133.6	138.3	142.3	147.1
42.5°	111.3	108.9	107.3	105.0	108.9	112.1	116.1	119.3	125.6	132.0	138.3
45°	94.6	93.0	90.6	89.0	94.6	100.2	105.7	111.3	118.5	124.8	132.0
47.5°	77.9	78.7	78.7	79.5	85.1	90.6	95.4	101.0	108.1	115.3	122.4
50°	65.2	66.8	68.4	70.0	75.5	80.3	85.9	90.6	98.6	105.7	113.7
52.5°	57.2	59.6	61.2	63.6	68.4	73.9	78.7	83.5	90.6	97.8	105.0
55°	51.7	54.9	57.2	59.6	63.6	67.6	71.6	75.5	82.7	89.8	96.2
57.5°	45.3	47.7	50.1	52.5	56.5	60.4	63.6	67.6	73.9	81.1	87.5
60°	39.8	41.3	43.7	45.3	48.5	52.5	55.7	58.8	65.2	71.6	77.1
62.5°	35.0	36.6	37.4	38.2	41.3	44.5	47.7	50.9	56.5	62.8	68.4
65°	31.0	31.8	31.8	32.6	35.0	38.2	40.5	42.9	49.3	54.9	61.2
67.5°	26.2	27.0	27.0	27.0	29.4	31.8	34.2	36.6	42.1	48.5	54.1
70°	20.7	21.5	21.5	21.5	23.9	27.0	29.4	31.8	36.6	41.3	46.1
72.5°	15.9	15.9	16.7	16.7	19.1	22.3	24.6	27.0	31.0	35.0	39.0
75°	10.3	11.1	11.1	11.9	14.3	17.5	19.9	22.3	26.2	30.2	33.4
77.5°	4.0	5.6	6.4	7.2	9.5	11.9	14.3	16.7	19.9	23.9	27.0
80°	0.0	0.8	0.8	0.8	2.4	3.2	4.8	5.6	8.0	11.1	13.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P368569
 CATALOG NUMBER: MSA-SA4C-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P368569
 CATALOG NUMBER: MSA-SA4C-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8
2.5°	1521.8	1565.5	1609.2	1653.0	1696.7	1750.8	1804.8	1812.8	1820.7	1811.2	1802.4
5°	1572.7	1594.1	1614.8	1636.3	1656.9	1719.0	1780.2	1781.0	1781.0	1781.8	1781.8
7.5°	1246.7	1265.0	1283.3	1300.8	1319.0	1359.6	1400.1	1415.2	1429.6	1426.4	1423.2
10°	904.8	928.7	951.7	975.6	998.6	1036.0	1073.4	1087.7	1101.2	1144.9	1189.4
12.5°	776.0	799.1	822.1	844.4	867.4	905.6	943.8	971.6	998.6	1025.7	1052.7
15°	632.1	650.4	669.5	687.7	706.0	723.5	741.0	775.2	808.6	835.6	862.7
17.5°	481.0	489.0	496.1	504.1	511.2	519.2	527.1	541.4	555.0	578.8	601.9
20°	353.0	359.4	365.7	371.3	377.7	385.6	393.6	403.9	413.4	419.0	423.8
22.5°	288.6	298.2	307.7	316.4	326.0	331.5	337.1	340.3	343.5	345.9	348.2
25°	260.0	268.7	276.7	285.4	293.4	295.8	298.2	304.5	310.9	310.9	310.9
27.5°	227.4	239.3	252.0	264.0	275.9	279.1	281.5	283.8	285.4	282.3	278.3
30°	214.7	226.6	238.5	249.7	261.6	266.4	270.3	272.7	275.1	271.1	267.1
32.5°	209.1	220.2	230.6	241.7	252.0	258.4	264.0	270.3	275.9	276.7	278.3
35°	182.1	189.2	197.2	204.3	211.5	214.7	217.9	220.2	221.8	221.8	221.8
37.5°	155.8	165.4	175.7	185.3	194.8	202.0	209.1	209.9	209.9	211.5	213.9
40°	151.1	160.6	170.1	178.9	188.4	196.4	203.5	204.3	205.1	206.7	208.3
42.5°	144.7	155.0	165.4	175.7	186.0	194.0	201.2	201.2	200.4	202.7	204.3
45°	138.3	148.7	158.2	168.6	178.1	188.4	198.0	195.6	192.4	196.4	199.6
47.5°	129.6	140.7	151.9	162.2	173.3	182.9	191.6	190.0	187.6	191.6	195.6
50°	120.9	132.0	143.1	154.2	165.4	175.7	185.3	183.7	182.1	186.8	190.8
52.5°	112.1	123.2	135.2	146.3	157.4	166.2	174.1	173.3	172.5	177.3	182.9
55°	103.4	113.7	124.8	135.2	145.5	155.0	163.8	162.2	160.6	164.6	168.6
57.5°	93.8	104.2	113.7	124.0	133.6	141.5	148.7	146.3	143.9	148.7	153.5
60°	83.5	93.0	102.6	111.3	120.9	127.2	132.8	131.2	128.8	133.6	138.3
62.5°	73.9	82.7	91.4	99.4	108.1	112.9	117.7	116.1	114.5	119.3	124.8
65°	66.8	73.9	80.3	87.5	93.8	98.6	103.4	101.0	98.6	104.2	108.9
67.5°	59.6	65.2	71.6	77.1	82.7	86.7	90.6	89.0	86.7	90.6	94.6
70°	50.9	56.5	62.0	66.8	72.4	76.3	80.3	77.9	74.7	78.7	82.7
72.5°	42.9	47.7	52.5	56.5	61.2	64.4	67.6	65.2	62.8	66.0	69.2
75°	37.4	41.3	45.3	48.5	52.5	54.1	55.7	54.9	53.3	56.5	58.8
77.5°	30.2	33.4	37.4	40.5	43.7	43.7	43.7	44.5	44.5	47.7	51.7
80°	15.9	19.1	22.3	24.6	27.8	27.8	27.0	28.6	29.4	33.4	37.4
82.5°	0.0	2.4	4.8	7.2	9.5	8.7	7.2	8.0	8.0	9.5	11.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P368569
 CATALOG NUMBER: MSA-SA4C-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P368569

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

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8
2.5°	1792.9	1783.4	1777.0	1771.4	1765.1	1758.7	1766.7	1774.6	1781.8	1789.7	1813.6
5°	1782.6	1782.6	1777.0	1771.4	1765.9	1760.3	1772.2	1783.4	1795.3	1806.4	1805.6
7.5°	1419.2	1416.0	1449.4	1482.0	1515.4	1548.0	1556.8	1565.5	1573.5	1582.2	1579.8
10°	1233.2	1276.9	1291.2	1305.5	1319.8	1334.1	1351.6	1369.1	1386.6	1404.1	1410.5
12.5°	1079.7	1106.8	1152.9	1198.2	1244.3	1289.6	1312.7	1336.5	1359.6	1382.6	1428.0
15°	889.7	916.7	956.5	996.2	1036.0	1075.7	1112.3	1149.7	1186.3	1222.8	1277.7
17.5°	625.7	648.8	679.0	709.2	738.6	768.8	825.3	881.7	938.2	994.6	1052.7
20°	429.3	434.1	448.4	463.5	477.8	492.2	543.0	594.7	645.6	696.5	772.8
22.5°	349.8	352.2	359.4	366.5	372.9	380.0	406.3	433.3	459.6	485.8	547.8
25°	310.1	310.1	314.9	319.6	324.4	329.2	343.5	357.8	371.3	385.6	425.4
27.5°	275.1	271.1	278.3	285.4	292.6	299.7	310.1	321.2	331.5	341.9	368.9
30°	263.2	259.2	267.9	276.7	285.4	294.2	304.5	314.9	324.4	334.7	353.0
32.5°	279.1	279.9	283.0	286.2	288.6	291.8	296.6	302.1	306.9	311.7	327.6
35°	221.8	221.8	227.4	233.0	237.7	243.3	252.0	260.8	269.5	278.3	295.0
37.5°	215.5	217.1	221.8	227.4	232.2	236.9	248.1	260.0	271.1	282.3	295.8
40°	209.1	210.7	217.1	223.4	229.8	236.1	247.3	257.6	268.7	279.1	291.8
42.5°	206.7	208.3	216.3	225.0	233.0	240.9	250.5	260.0	268.7	278.3	295.8
45°	203.5	206.7	216.3	226.6	236.1	245.7	254.4	263.2	271.9	280.7	302.1
47.5°	198.8	202.7	213.9	224.2	235.3	245.7	262.4	279.9	296.6	313.3	323.6
50°	195.6	199.6	211.5	223.4	235.3	247.3	274.3	301.3	327.6	354.6	349.0
52.5°	187.6	192.4	207.5	222.6	237.7	252.8	276.7	300.5	324.4	348.2	337.1
55°	172.5	176.5	194.0	211.5	228.2	245.7	263.2	280.7	297.4	314.9	302.1
57.5°	157.4	162.2	178.9	195.6	211.5	228.2	236.9	245.7	254.4	263.2	258.4
60°	143.1	147.9	170.1	192.4	214.7	236.9	229.0	221.0	212.3	204.3	209.9
62.5°	129.6	134.4	155.8	176.5	198.0	218.6	207.5	196.4	185.3	174.1	182.9
65°	114.5	119.3	127.2	136.0	143.9	151.9	151.1	149.5	148.7	147.1	156.6
67.5°	98.6	102.6	106.5	111.3	115.3	119.3	121.6	124.8	127.2	129.6	137.5
70°	85.9	89.8	94.6	98.6	103.4	107.3	108.9	110.5	111.3	112.9	120.1
72.5°	71.6	74.7	81.1	87.5	93.0	99.4	100.2	100.2	101.0	101.0	106.5
75°	62.0	64.4	69.2	73.9	77.9	82.7	85.1	87.5	89.0	91.4	94.6
77.5°	54.9	58.0	59.6	60.4	62.0	62.8	64.4	66.0	67.6	69.2	70.0
80°	40.5	44.5	46.1	46.9	48.5	49.3	49.3	48.5	48.5	47.7	48.5
82.5°	12.7	14.3	16.7	19.1	21.5	23.9	24.6	25.4	25.4	26.2	25.4
85°	2.4	3.2	4.8	6.4	7.2	8.7	8.0	6.4	5.6	4.0	3.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P368569
 CATALOG NUMBER: MSA-SA4C-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P368569

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

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8
2.5°	1837.4	1860.5	1884.3	1874.8	1865.3	1855.7	1846.2	1847.8	1850.2	1851.7	1853.3
5°	1804.8	1803.2	1802.4	1829.5	1857.3	1884.3	1911.4	1940.8	1971.0	2000.4	2029.8
7.5°	1577.4	1574.3	1571.9	1606.9	1641.8	1676.8	1711.8	1752.4	1793.7	1834.2	1874.8
10°	1416.8	1423.2	1429.6	1443.9	1459.0	1473.3	1487.6	1526.6	1565.5	1603.7	1642.6
12.5°	1473.3	1517.8	1563.1	1571.9	1579.8	1588.6	1596.5	1602.1	1607.7	1613.2	1618.8
15°	1333.3	1388.2	1443.1	1466.1	1488.4	1511.4	1533.7	1592.5	1650.6	1709.4	1767.5
17.5°	1110.7	1168.0	1226.0	1295.2	1364.4	1433.5	1502.7	1566.3	1629.9	1693.5	1757.1
20°	849.9	926.3	1002.6	1090.1	1178.3	1265.8	1353.2	1416.8	1479.6	1543.3	1606.1
22.5°	610.6	672.6	734.7	840.4	945.4	1051.1	1156.0	1266.6	1377.9	1488.4	1598.9
25°	465.1	504.1	543.8	648.0	752.1	855.5	959.7	1111.5	1263.4	1415.2	1567.1
27.5°	395.2	422.2	448.4	542.2	636.1	729.1	822.9	1003.4	1183.9	1364.4	1544.8
30°	372.1	390.4	408.7	488.2	568.5	648.0	727.5	910.4	1093.2	1276.1	1459.0
32.5°	343.5	358.6	374.5	444.4	514.4	583.6	653.6	832.4	1011.3	1189.4	1368.3
35°	310.9	327.6	343.5	413.4	483.4	552.6	622.5	807.8	993.1	1178.3	1363.6
37.5°	308.5	322.0	334.7	415.8	497.7	578.8	659.9	845.2	1030.4	1214.9	1400.1
40°	305.3	318.0	330.8	413.4	495.3	578.0	659.9	853.9	1047.9	1241.9	1435.9
42.5°	313.3	330.0	347.5	420.6	493.7	566.1	639.2	843.6	1047.9	1251.5	1455.8
45°	324.4	345.9	367.3	434.1	500.9	567.7	634.5	856.3	1078.1	1299.2	1521.0
47.5°	334.7	345.1	355.4	419.0	481.8	545.4	608.2	834.8	1061.4	1288.0	1514.6
50°	344.3	338.7	333.1	403.1	473.1	542.2	612.2	828.5	1043.9	1260.2	1475.7
52.5°	325.2	314.1	302.1	376.9	451.6	525.5	600.3	818.1	1036.0	1253.8	1471.7
55°	289.4	276.7	264.0	337.9	411.1	485.0	558.1	775.2	992.3	1209.3	1426.4
57.5°	252.8	248.1	242.5	299.0	355.4	411.1	467.5	708.4	950.1	1191.0	1431.9
60°	215.5	220.2	225.8	266.4	306.9	346.7	387.2	623.3	858.7	1094.8	1330.2
62.5°	190.8	199.6	207.5	241.7	276.7	310.9	345.1	567.7	790.3	1012.9	1235.6
65°	167.0	176.5	186.0	226.6	267.9	308.5	349.0	537.5	725.9	914.3	1102.8
67.5°	145.5	152.7	160.6	213.9	267.1	320.4	373.7	527.9	681.4	835.6	989.1
70°	127.2	133.6	140.7	202.7	264.8	326.8	388.8	520.0	652.0	783.2	914.3
72.5°	112.1	117.7	123.2	186.0	248.9	311.7	374.5	491.4	607.4	724.3	840.4
75°	97.8	100.2	103.4	156.6	209.1	262.4	314.9	392.8	471.5	549.4	627.3
77.5°	70.8	70.8	71.6	87.5	102.6	118.5	133.6	182.1	230.6	278.3	326.8
80°	48.5	49.3	49.3	55.7	61.2	67.6	73.1	83.5	93.0	103.4	112.9
82.5°	24.6	23.1	22.3	28.6	35.0	41.3	47.7	50.1	51.7	54.1	55.7
85°	2.4	0.8	0.0	4.0	8.0	11.9	15.9	19.1	22.3	25.4	28.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P368569
 CATALOG NUMBER: MSA-SA4C-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P368569

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

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8
2.5°	1847.0	1840.6	1834.2	1827.9	1866.8	1906.6	1945.6	1984.5	2095.0	2167.4	2159.4
5°	2058.5	2087.1	2115.7	2144.3	2190.4	2237.4	2283.5	2329.6	2493.4	2593.6	2607.9
7.5°	1919.3	1963.1	2007.6	2051.3	2140.4	2228.6	2317.7	2405.9	2540.3	2644.4	2703.3
10°	1692.7	1742.8	1792.1	1842.2	1942.4	2043.4	2143.5	2243.7	2394.8	2538.7	2612.6
12.5°	1697.5	1776.2	1854.9	1933.6	2021.1	2108.6	2195.2	2282.7	2374.9	2423.4	2527.6
15°	1829.5	1891.5	1953.5	2015.5	2130.0	2244.5	2358.2	2472.7	2527.6	2644.4	2766.1
17.5°	1878.0	1999.6	2120.5	2241.3	2384.4	2526.8	2669.9	2812.2	2915.6	3077.8	3203.4
20°	1788.1	1970.2	2151.5	2333.6	2529.9	2726.3	2922.7	3119.1	3232.0	3386.2	3580.2
22.5°	1792.1	1985.3	2177.7	2370.9	2642.1	2912.4	3183.5	3453.8	3756.8	4054.1	4148.7
25°	1819.9	2072.8	2324.8	2577.6	2890.9	3204.2	3517.4	3830.7	4196.4	4508.9	4634.5
27.5°	1829.5	2114.1	2398.0	2682.6	3127.8	3573.1	4018.3	4463.6	4900.1	5253.1	5387.5
30°	1806.4	2154.7	2502.1	2849.6	3395.8	3942.0	4488.2	5034.4	5448.7	5859.7	6026.7
32.5°	1812.0	2255.6	2699.3	3143.0	3786.2	4430.2	5073.4	5716.6	5981.4	6351.9	6646.1
35°	1850.2	2336.7	2822.5	3309.1	4020.7	4732.3	5443.9	6155.5	6589.6	6980.8	7230.5
37.5°	1939.2	2478.3	3016.5	3555.6	4430.2	5305.6	6180.2	7054.7	7726.6	8398.4	8512.9
40°	2005.2	2574.5	3143.7	3713.0	4728.3	5743.7	6759.0	7774.3	8534.4	9263.5	9341.4
42.5°	2079.9	2703.3	3327.4	3950.8	5086.1	6221.5	7356.9	8492.3	9372.4	10115.8	10167.5
45°	2161.8	2803.5	3444.3	4085.1	5274.6	6463.2	7652.6	8841.3	9869.3	10732.8	10538.0
47.5°	2200.8	2886.9	3573.1	4259.2	5534.6	6809.1	8084.4	9358.9	10281.2	11042.9	10815.5
50°	2231.0	2985.5	3740.9	4495.4	5832.7	7170.0	8507.4	9844.7	10769.4	11472.2	11116.0
52.5°	2316.1	3159.6	4004.0	4847.6	6270.0	7691.6	9114.0	10535.6	11430.1	12075.7	11576.4
55°	2398.8	3370.3	4342.7	5314.3	6844.0	8374.6	9904.3	11434.0	12324.5	12877.9	12199.7
57.5°	2502.9	3574.7	4645.7	5716.6	7352.9	8989.2	10624.7	12260.9	13131.5	13743.0	13038.5
60°	2475.9	3620.8	4766.5	5911.4	7577.9	9244.4	10910.9	12577.4	13611.8	14363.1	13885.3
62.5°	2370.9	3506.3	4640.9	5776.3	7413.3	9049.6	10686.7	12322.9	13562.5	14580.2	14419.6
65°	2158.6	3213.7	4269.6	5324.7	6887.8	8451.7	10014.8	11578.0	13107.7	14402.9	14460.1
67.5°	1879.6	2770.1	3659.8	4550.2	6008.4	7466.6	8924.0	10382.2	12187.8	13698.4	13868.6
70°	1583.8	2252.5	2921.9	3590.6	4873.8	6157.1	7439.6	8722.8	10600.0	12120.2	12441.4
72.5°	1269.7	1699.9	2129.2	2558.6	3484.8	4410.3	5336.6	6262.1	7913.4	9093.3	9653.9
75°	822.9	1018.5	1214.1	1409.7	2026.7	2642.8	3259.8	3876.0	4972.4	5841.5	6475.1
77.5°	366.5	406.3	445.2	485.0	961.3	1437.5	1913.8	2390.0	2866.3	3391.0	3539.7
80°	131.2	148.7	167.0	184.5	418.2	652.8	886.5	1120.3	1350.8	1622.0	1688.0
82.5°	54.9	54.9	54.1	53.3	136.8	220.2	303.7	387.2	447.6	514.4	527.1
85°	22.3	16.7	10.3	4.0	17.5	31.8	45.3	58.8	94.6	85.9	159.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P368569
 CATALOG NUMBER: MSA-SA4C-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P368569

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

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8
2.5°	2129.2	2127.6	2126.0	2124.5	2122.9	2094.2	2066.4	2037.8	2010.0	2044.9	2079.9
5°	2584.8	2626.1	2667.5	2709.6	2751.0	2762.9	2774.8	2786.8	2798.7	2824.1	2849.6
7.5°	2752.6	2822.5	2891.7	2961.7	3030.8	3095.2	3158.9	3223.3	3287.7	3271.8	3255.9
10°	2694.5	2820.9	2947.4	3074.6	3201.0	3228.8	3256.6	3285.3	3313.1	3385.5	3457.8
12.5°	2631.7	2783.6	2935.4	3087.3	3239.2	3323.4	3406.9	3491.2	3575.5	3648.6	3721.8
15°	2929.9	3026.9	3123.9	3221.7	3318.7	3392.6	3465.8	3539.7	3612.8	3663.7	3713.8
17.5°	3321.8	3369.5	3417.3	3465.8	3513.5	3571.5	3629.5	3687.6	3745.6	3775.8	3806.0
20°	3736.1	3756.8	3777.4	3798.1	3818.8	3772.7	3726.5	3680.4	3634.3	3662.9	3690.8
22.5°	4151.9	4159.1	4167.0	4174.2	4181.3	4074.0	3966.7	3859.3	3752.0	3706.7	3661.3
25°	4791.9	4739.5	4687.0	4634.5	4582.0	4454.8	4327.6	4200.4	4073.2	3961.1	3849.0
27.5°	5485.3	5307.2	5129.9	4951.8	4774.5	4647.2	4520.0	4392.8	4265.6	4097.0	3928.5
30°	6184.1	5897.1	5610.9	5323.9	5037.6	4886.6	4735.5	4583.6	4432.6	4264.0	4096.3
32.5°	6825.0	6479.9	6134.8	5789.0	5443.9	5189.5	4935.1	4680.6	4426.2	4308.5	4190.9
35°	7356.1	6948.2	6540.3	6131.7	5723.8	5471.7	5219.7	4967.7	4715.6	4540.7	4366.6
37.5°	8264.1	7805.3	7346.5	6887.8	6429.0	6084.7	5741.3	5397.0	5052.7	4935.9	4819.0
40°	9101.3	8523.3	7945.2	7367.2	6789.2	6500.6	6212.8	5924.1	5636.3	5444.7	5253.9
42.5°	9766.8	9157.7	8549.5	7940.5	7331.4	7046.0	6761.4	6475.9	6190.5	6062.5	5935.3
45°	9910.7	9336.6	8763.4	8189.3	7615.3	7449.1	7283.7	7117.6	6952.2	6863.9	6776.5
47.5°	10194.5	9572.0	8950.2	8327.7	7705.1	7630.4	7555.6	7480.1	7405.4	7447.5	7489.7
50°	10353.5	9718.3	9083.0	8447.7	7812.5	7833.9	7854.6	7876.1	7897.5	8196.5	8494.6
52.5°	10662.0	10020.4	9378.8	8737.1	8095.5	8230.7	8365.0	8500.2	8634.6	9046.4	9457.5
55°	11213.0	10582.5	9952.0	9320.7	8690.2	8868.3	9046.4	9225.3	9403.4	9840.7	10277.2
57.5°	12029.6	11403.8	10778.9	10153.2	9528.2	9705.5	9882.8	10060.1	10237.5	10632.6	11027.0
60°	13057.6	12415.2	11773.5	11131.1	10489.5	10556.3	10622.3	10689.1	10755.8	11180.4	11604.2
62.5°	13858.2	13267.5	12677.6	12086.8	11496.9	11422.9	11349.8	11275.8	11202.7	11525.5	11847.5
65°	14044.3	13628.5	13213.4	12797.6	12381.8	12154.4	11927.8	11700.4	11473.0	11603.4	11733.8
67.5°	13511.6	13230.9	12951.1	12670.4	12389.7	11915.1	11440.4	10964.9	10490.3	10421.1	10351.9
70°	12275.2	12121.8	11969.1	11815.7	11663.0	10931.6	10200.9	9469.4	8738.7	8563.0	8387.3
72.5°	9686.5	9781.9	9877.3	9973.5	10068.9	9285.7	8503.4	7720.2	6937.1	6714.5	6492.6
75°	6830.5	7154.1	7477.7	7801.3	8124.9	7410.9	6697.8	5983.8	5269.8	5055.9	4842.8
77.5°	3703.5	4310.1	4916.8	5523.4	6130.1	5540.9	4952.6	4363.4	3774.2	3625.6	3477.7
80°	1755.5	2105.4	2454.4	2804.2	3154.1	3021.3	2888.5	2755.0	2622.2	2654.8	2687.4
82.5°	538.3	791.1	1043.9	1296.8	1549.6	1569.5	1588.6	1608.4	1628.3	1677.6	1726.1
85°	180.5	247.3	314.1	380.8	447.6	565.3	683.0	801.4	919.1	842.8	767.3
87.5°	0.0	2.4	4.0	6.4	8.0	24.6	41.3	58.0	74.7	64.4	54.9
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: P368569
 CATALOG NUMBER: MSA-SA4C-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P368569

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

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8
2.5°	2115.7	2150.7	2151.5	2153.1	2153.9	2154.7	2158.6	2162.6	2167.4	2171.4	2145.1
5°	2875.8	2901.2	2854.3	2807.4	2759.7	2712.8	2755.0	2797.1	2839.2	2881.4	2863.1
7.5°	3239.2	3223.3	3217.7	3212.9	3207.4	3202.6	3218.5	3234.4	3250.3	3266.2	3264.6
10°	3530.2	3602.5	3620.0	3637.5	3655.8	3673.3	3636.7	3600.1	3563.5	3527.0	3511.9
12.5°	3794.9	3868.1	3926.1	3984.1	4043.0	4101.0	4048.5	3996.9	3944.4	3892.7	3843.4
15°	3764.7	3814.8	3862.5	3910.2	3957.9	4005.6	3988.1	3971.4	3953.9	3936.4	3928.5
17.5°	3837.1	3867.3	3856.1	3845.0	3833.1	3822.0	3816.4	3811.6	3806.0	3800.5	3781.4
20°	3719.4	3748.0	3740.9	3734.5	3727.3	3720.2	3715.4	3710.6	3705.9	3701.1	3686.0
22.5°	3616.0	3570.7	3558.8	3547.6	3535.7	3524.6	3526.2	3527.8	3528.6	3530.2	3598.5
25°	3736.9	3624.8	3581.0	3537.3	3492.8	3449.1	3468.9	3488.0	3507.9	3527.8	3626.4
27.5°	3759.1	3590.6	3520.6	3450.6	3380.7	3310.7	3382.3	3453.8	3525.4	3596.9	3756.8
30°	3927.7	3759.9	3662.1	3565.1	3467.3	3370.3	3461.8	3553.2	3644.6	3736.1	3909.4
32.5°	4072.4	3954.7	3884.8	3814.8	3744.8	3674.9	3678.8	3682.0	3686.0	3690.0	3934.1
35°	4191.7	4017.5	3953.9	3891.1	3827.5	3764.7	3859.3	3953.9	4048.5	4143.2	4362.6
37.5°	4702.1	4585.2	4468.4	4352.3	4235.4	4119.3	4194.8	4270.4	4346.7	4422.2	4664.7
40°	5062.3	4871.5	4841.2	4811.8	4781.6	4752.2	4791.2	4829.3	4868.3	4907.2	5119.5
42.5°	5807.3	5679.3	5597.4	5516.3	5434.4	5353.3	5384.3	5415.3	5447.1	5478.1	5679.3
45°	6688.2	6600.0	6545.9	6491.8	6437.0	6382.9	6336.0	6289.9	6243.0	6196.9	6401.2
47.5°	7531.8	7573.9	7693.2	7811.7	7930.9	8049.4	7952.4	7855.4	7757.6	7660.6	7661.4
50°	8793.6	9091.7	9152.2	9211.8	9272.2	9331.9	9125.1	8918.4	8710.9	8504.2	8479.5
52.5°	9869.3	10280.4	10301.9	10323.3	10345.6	10367.0	10283.6	10200.1	10115.8	10032.3	9810.5
55°	10714.5	11151.0	11180.4	11209.0	11238.5	11267.1	11193.9	11121.6	11048.4	10975.3	10751.1
57.5°	11422.1	11816.5	11834.0	11850.7	11868.2	11885.7	11891.2	11896.8	11903.1	11908.7	11605.8
60°	12028.8	12453.3	12418.4	12384.2	12349.2	12315.0	12262.5	12210.0	12157.6	12105.1	11909.5
62.5°	12170.3	12493.1	12439.0	12385.8	12331.7	12278.4	12233.9	12190.2	12145.6	12101.1	11976.3
65°	11864.2	11994.6	11938.9	11883.3	11826.8	11771.2	11742.5	11714.7	11686.1	11657.5	11641.6
67.5°	10282.0	10212.8	10278.8	10344.8	10410.8	10476.8	10566.6	10656.5	10747.1	10836.9	10784.5
70°	8210.8	8035.1	8108.2	8180.6	8253.7	8326.1	8462.0	8598.0	8734.8	8870.7	8834.1
72.5°	6270.0	6047.4	6057.7	6068.1	6079.2	6089.5	6085.5	6082.4	6078.4	6074.4	6138.0
75°	4629.0	4415.1	4314.1	4213.1	4112.2	4011.2	3986.5	3961.9	3937.2	3912.6	4031.1
77.5°	3329.0	3181.1	3111.9	3043.6	2974.4	2906.0	2941.0	2976.0	3011.8	3046.7	3088.1
80°	2720.8	2753.4	2700.1	2647.6	2594.3	2541.1	2580.8	2619.8	2659.5	2699.3	2576.1
82.5°	1775.4	1823.9	1660.1	1496.3	1332.6	1168.8	1268.2	1367.5	1467.7	1567.1	1516.2
85°	690.9	615.4	524.8	434.9	344.3	253.6	330.0	406.3	482.6	558.9	609.8
87.5°	44.5	35.0	27.8	20.7	12.7	5.6	11.9	18.3	25.4	31.8	53.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P368569
 CATALOG NUMBER: MSA-SA4C-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P368569

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

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8	1680.8
2.5°	2119.7	2093.4	2068.0	2017.9	1967.8	1917.7	1867.6	1937.6	2007.6	2077.5	2147.5
5°	2845.6	2827.3	2809.8	2814.6	2819.4	2824.9	2829.7	2840.0	2850.4	2859.9	2870.2
7.5°	3263.8	3262.2	3260.6	3224.0	3187.5	3150.1	3113.5	3131.8	3150.1	3168.4	3186.7
10°	3497.6	3482.5	3467.3	3387.0	3306.7	3225.6	3145.3	3110.4	3074.6	3039.6	3004.6
12.5°	3794.1	3744.0	3694.7	3608.9	3523.8	3437.9	3352.1	3320.3	3287.7	3255.9	3223.3
15°	3921.3	3913.4	3906.2	3845.0	3783.0	3721.8	3659.8	3550.8	3441.1	3332.2	3223.3
17.5°	3762.3	3742.4	3723.4	3820.4	3916.6	4013.6	4110.6	3997.7	3884.8	3771.9	3659.0
20°	3670.9	3655.8	3640.7	3821.2	4000.8	4181.3	4361.0	4310.9	4260.0	4209.9	4159.9
22.5°	3666.9	3736.1	3804.5	3962.7	4120.1	4278.3	4435.8	4522.4	4609.9	4696.5	4783.2
25°	3725.0	3824.3	3922.9	4185.3	4447.7	4710.8	4973.2	5072.6	5171.2	5270.6	5369.2
27.5°	3915.8	4075.6	4234.6	4463.6	4692.6	4922.3	5151.3	5368.4	5586.2	5803.3	6020.3
30°	4081.9	4255.3	4428.6	4701.3	4973.2	5245.9	5517.9	5789.8	6061.7	6333.6	6605.5
32.5°	4178.1	4423.0	4667.1	4998.7	5329.4	5661.0	5992.5	6290.7	6588.8	6886.2	7184.3
35°	4582.0	4802.3	5021.7	5388.3	5754.8	6122.1	6488.6	6857.6	7226.5	7594.6	7963.5
37.5°	4907.2	5150.5	5393.0	5793.7	6193.7	6594.4	6995.1	7504.8	8015.2	8524.8	9034.5
40°	5331.8	5544.1	5756.4	6131.7	6506.1	6881.4	7256.7	7903.1	8549.5	9195.1	9841.5
42.5°	5879.6	6080.8	6281.9	6683.4	7085.0	7486.5	7888.0	8603.6	9319.1	10033.9	10749.5
45°	6605.5	6810.7	7015.0	7334.6	7654.2	7973.9	8293.5	9054.4	9814.5	10575.4	11335.5
47.5°	7662.2	7663.0	7663.8	7894.4	8124.9	8356.3	8586.9	9353.3	10119.0	10885.4	11651.1
50°	8454.9	8429.4	8404.8	8524.1	8642.5	8761.8	8881.0	9586.3	10292.3	10997.5	11702.8
52.5°	9589.5	9367.6	9146.6	9217.4	9287.3	9358.1	9428.1	10025.2	10623.1	11220.2	11817.3
55°	10527.7	10303.4	10079.2	10053.0	10026.8	10000.5	9974.3	10523.7	11073.1	11622.5	12171.9
57.5°	11303.7	11000.7	10698.6	10638.2	10578.5	10518.1	10457.7	11037.3	11616.1	12195.7	12774.6
60°	11714.7	11519.1	11323.5	11284.6	11244.8	11205.9	11166.1	11641.6	12117.0	12592.5	13067.9
62.5°	11852.3	11727.4	11603.4	11676.5	11749.7	11823.6	11896.8	12105.9	12314.2	12523.3	12731.6
65°	11626.5	11610.6	11594.7	11744.9	11894.4	12044.7	12194.9	12143.3	12090.8	12039.1	11987.4
67.5°	10732.8	10680.3	10628.6	10958.6	11287.8	11617.7	11947.7	11697.2	11446.0	11195.5	10945.1
70°	8797.6	8760.2	8723.6	9199.1	9674.5	10150.8	10626.2	10322.5	10018.8	9715.1	9411.4
72.5°	6200.8	6264.4	6328.0	6888.6	7448.3	8008.8	8568.6	8262.5	7956.4	7650.3	7344.2
75°	4148.7	4267.2	4385.7	4962.9	5540.1	6118.1	6695.4	6336.0	5976.6	5617.2	5257.9
77.5°	3129.4	3170.8	3212.1	3577.1	3942.0	4307.7	4672.7	4376.1	4078.8	3782.2	3484.8
80°	2452.8	2328.8	2205.6	2325.6	2445.7	2565.7	2685.8	2508.5	2331.2	2154.7	1977.4
82.5°	1465.3	1414.4	1363.6	1428.8	1493.2	1558.4	1623.6	1547.2	1470.1	1393.8	1316.7
85°	659.9	710.8	760.9	826.9	892.1	958.1	1024.1	917.5	811.0	704.4	597.9
87.5°	73.9	95.4	116.9	144.7	172.5	200.4	228.2	178.1	127.2	77.1	27.0
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: P368569
 CATALOG NUMBER: MSA-SA4C-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P368569
 CATALOG NUMBER: MSA-SA4C-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	1680.8	1680.8
2.5°	2188.1	2228.6
5°	2869.4	2867.9
7.5°	3139.0	3090.5
10°	2960.1	2915.6
12.5°	3109.6	2995.9
15°	3137.4	3051.5
17.5°	3519.0	3378.3
20°	3979.4	3798.1
22.5°	4535.1	4286.3
25°	5073.4	4777.6
27.5°	5843.0	5664.9
30°	6425.8	6245.4
32.5°	7061.9	6939.5
35°	7841.9	7719.4
37.5°	9066.3	9097.3
40°	9860.6	9879.7
42.5°	10823.4	10897.4
45°	11418.1	11500.8
47.5°	11766.4	11881.7
50°	11888.8	12074.9
52.5°	12047.1	12276.0
55°	12427.1	12682.3
57.5°	12978.1	13181.6
60°	13077.5	13087.0
62.5°	12584.5	12437.4
65°	11830.8	11674.2
67.5°	10850.5	10755.0
70°	9285.7	9160.1
72.5°	7110.4	6876.6
75°	4968.5	4679.0
77.5°	3333.0	3181.1
80°	1982.1	1986.1
82.5°	1353.2	1389.0
85°	590.7	582.8
87.5°	19.1	10.3
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: P368569
CATALOG NUMBER: MSA-SA4C-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)