

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: P368173

Luminaire Tested: **MSA-SA3D-830-U-SLR-HSS**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P368173
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-SA3D-830-U-SLR-HSS
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11538 lumens
Efficiency: N/A
Efficacy: 60.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

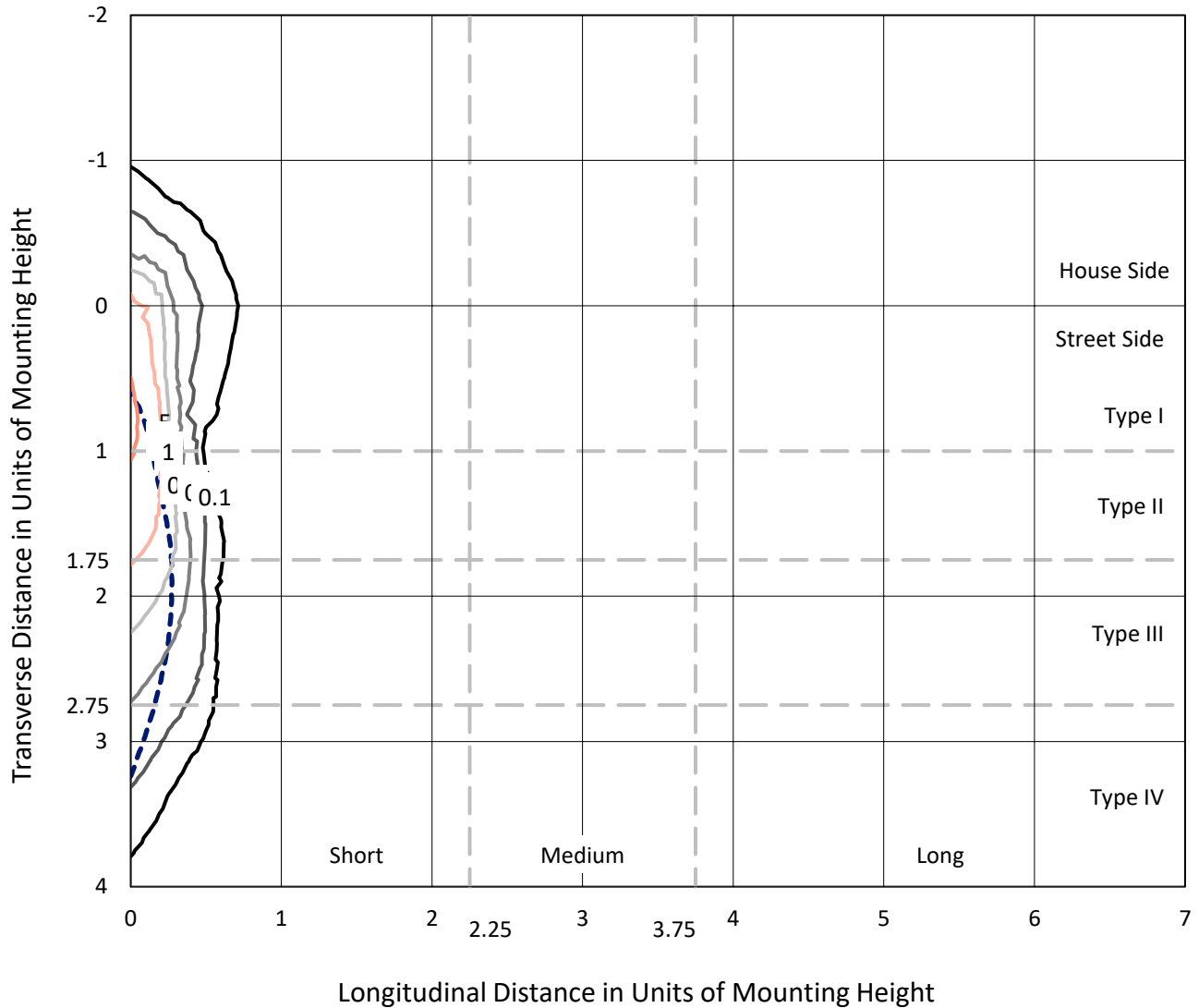
Input Watts (W): 192
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P368173
 CATALOG NUMBER: MSA-SA3D-830-U-SLR-HSS

Iso-Footcandle Lines of Horizontal Illumination

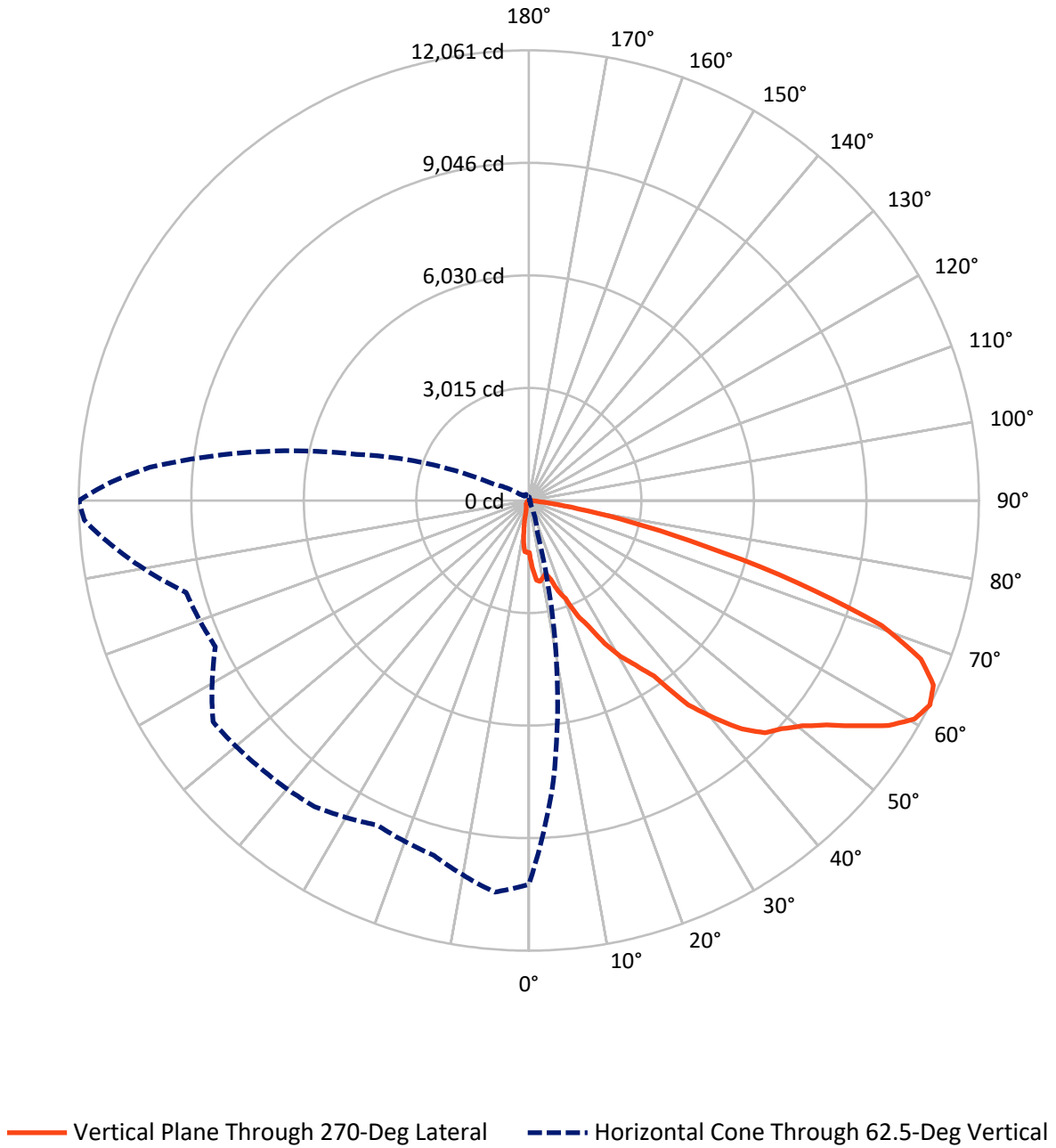
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P368173
CATALOG NUMBER: MSA-SA3D-830-U-SLR-HSS

Luminous Intensity Polar Plot



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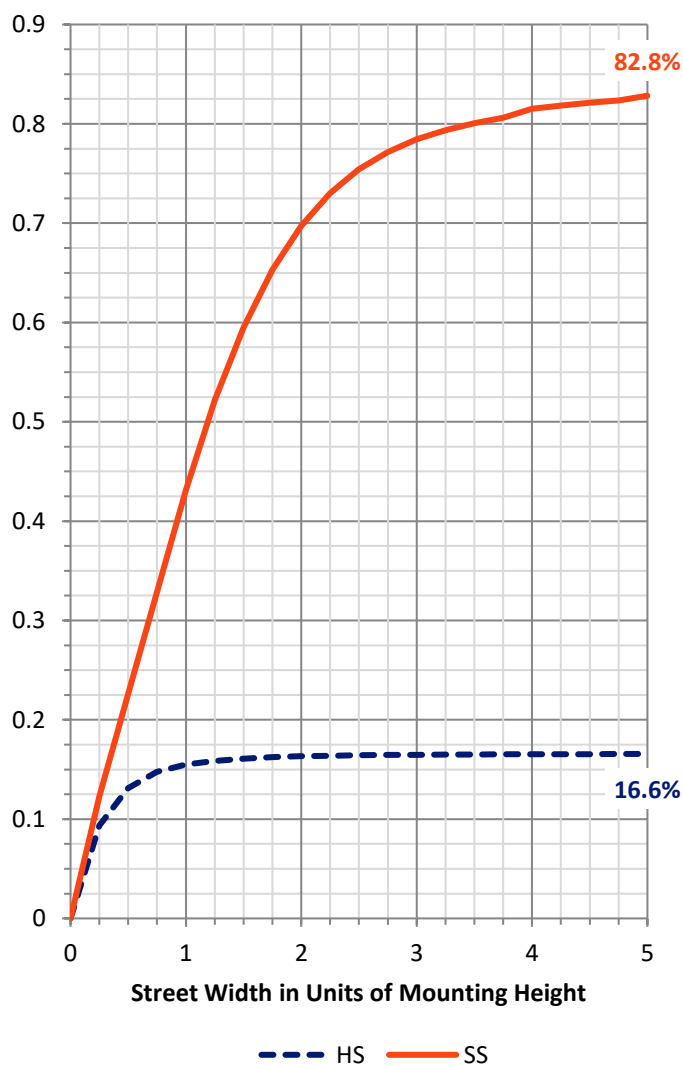
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1926.7	0.0	1926.7
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	9611.3	0.0	9611.3
	% Fixture	83.3	0.0	83.3
Total	Lumens	11538.0	0.0	11538.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.4	1.3
10°-20°	405.8	3.5
20°-30°	655.9	5.7
30°-40°	1098.5	9.5
40°-50°	1795.8	15.6
50°-60°	2658.4	23.0
60°-70°	3051.9	26.5
70°-80°	1509.0	13.1
80°-90°	207.3	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°	11538.0	100.0
0°-180°	11538.0	100.0

Coefficient of Utilization

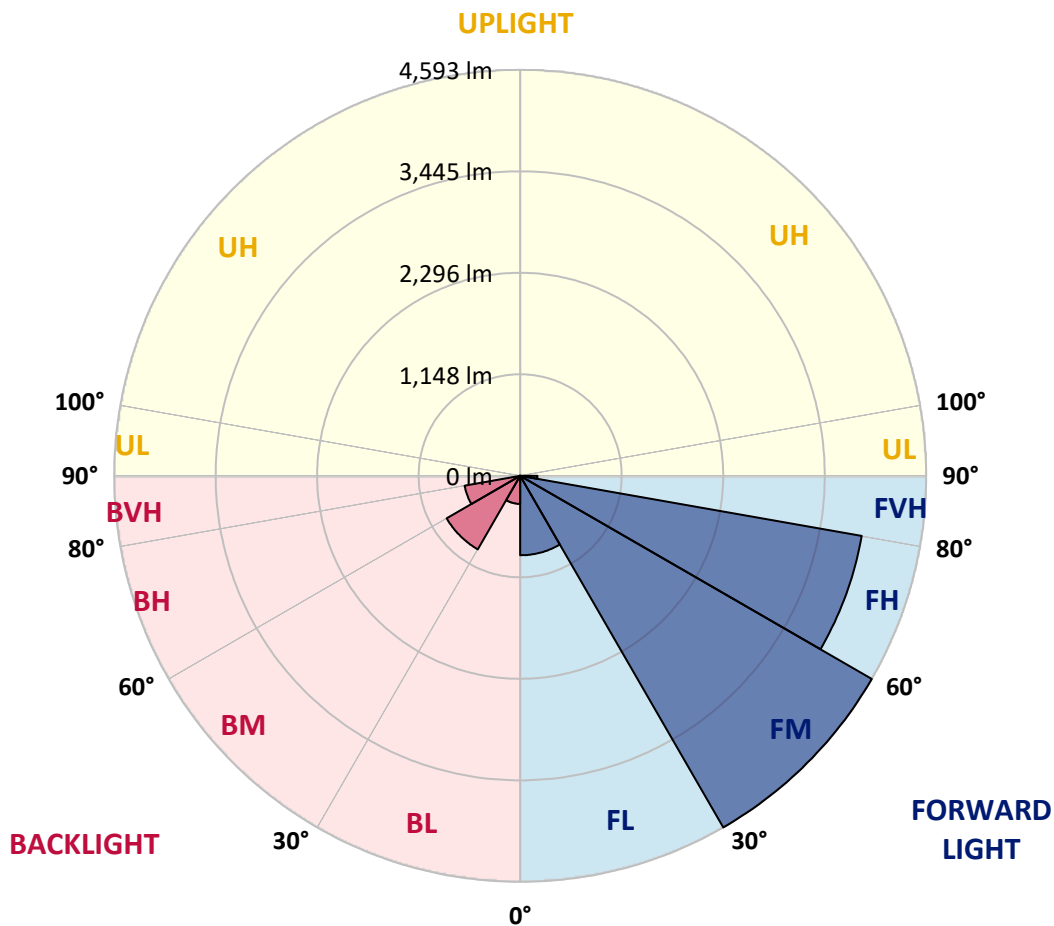


REPORT NUMBER: P368173
 CATALOG NUMBER: MSA-SA3D-830-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	898.9	7.8			
FM (30°-60°)	4592.7	39.8			
FH (60°-80°)	3923.5	34.0			G2/5000
FVH (80°-90°)	196.2	1.7			G2/225
BL (0°-30°)	318.1	2.8	B1/500		
BM (30°-60°)	960.1	8.3	B1/1000		
BH (60°-80°)	637.5	5.5	B2/1000		G2/1000
BVH (80°-90°)	11.0	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-G2
 Type IV Short





REPORT NUMBER: P368173

CATALOG NUMBER: MSA-SA3D-830-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4
2.5°	1843.5	1866.6	1888.9	1846.2	1803.4	1760.7	1717.9	1679.8	1641.6	1602.8	1564.7
5°	2372.3	2330.2	2288.1	2230.3	2172.4	2114.5	2056.6	2029.7	2002.7	1975.7	1948.8
7.5°	2556.5	2481.5	2405.9	2354.6	2303.9	2252.6	2201.3	2120.4	2038.9	1958.0	1876.4
10°	2411.8	2332.2	2252.0	2207.2	2162.5	2117.8	2073.1	1972.4	1871.2	1770.5	1669.2
12.5°	2478.2	2392.1	2305.9	2213.8	2121.7	2029.7	1937.6	1860.6	1783.0	1706.1	1628.5
15°	2524.3	2425.6	2326.3	2221.1	2115.8	2010.6	1905.4	1814.6	1724.5	1633.7	1543.0
17.5°	2794.6	2653.2	2511.8	2350.0	2188.2	2026.4	1864.6	1759.4	1654.8	1549.5	1444.3
20°	3141.8	2941.2	2740.0	2521.0	2302.0	2082.9	1863.9	1733.0	1602.2	1471.3	1340.4
22.5°	3545.7	3295.1	3043.8	2773.5	2503.9	2233.6	1963.2	1775.1	1587.0	1398.9	1210.8
25°	3952.1	3725.9	3499.6	3135.9	2772.2	2407.8	2044.1	1805.4	1566.0	1327.2	1087.8
27.5°	4686.1	4281.6	3877.2	3414.1	2951.8	2488.7	2025.7	1752.1	1478.5	1204.3	930.6
30°	5166.3	4855.2	4543.4	3931.7	3320.7	2709.1	2097.4	1750.8	1404.2	1056.9	710.3
32.5°	5740.4	5285.3	4829.5	4165.9	3502.3	2838.6	2175.0	1767.9	1360.1	953.0	545.2
35°	6385.6	5890.4	5395.1	4554.6	3714.0	2872.8	2032.3	1637.7	1243.1	848.4	453.8
37.5°	7525.4	6696.7	5868.0	4888.0	3907.4	2927.4	1946.8	1552.8	1158.2	764.3	369.6
40°	8172.6	7381.4	6590.2	5365.5	4140.9	2916.3	1691.6	1341.7	992.5	642.6	292.7
42.5°	9014.5	8010.8	7006.5	5637.8	4269.1	2900.5	1531.8	1208.2	884.6	560.4	236.8
45°	9513.7	8376.5	7239.3	5756.2	4273.1	2790.0	1306.9	1026.7	746.5	466.3	186.1
47.5°	9828.7	8688.2	7547.8	5955.5	4363.9	2771.6	1179.3	921.4	663.6	405.8	148.0
50°	9988.5	8844.8	7700.4	6064.0	4427.7	2790.6	1154.3	897.8	640.6	384.1	126.9
52.5°	10154.9	9052.0	7948.3	6252.1	4555.9	2859.7	1163.5	901.7	640.6	378.8	117.1
55°	10491.0	9403.2	8314.7	6521.8	4728.9	2936.0	1143.1	885.3	627.4	369.0	111.2
57.5°	10904.0	9741.2	8577.8	6719.1	4860.4	3001.8	1143.1	884.0	624.8	365.0	105.9
60°	10825.8	9563.7	8300.9	6497.4	4694.0	2889.9	1086.5	839.9	593.9	347.3	100.6
62.5°	10288.4	8918.4	7547.8	5881.2	4213.9	2547.3	880.0	683.4	486.7	289.4	92.7
65°	9657.0	8202.9	6748.0	5214.3	3679.8	2146.1	611.7	480.1	347.9	216.4	84.2
67.5°	8896.7	7345.9	5795.0	4430.9	3067.5	1703.4	339.4	273.6	207.8	141.4	75.6
70°	7577.4	5976.5	4375.0	3326.7	2278.9	1230.6	182.2	153.9	125.6	97.3	69.1
72.5°	5688.5	4221.8	2755.1	2092.8	1431.2	768.9	106.5	96.0	84.8	74.3	63.1
75°	3870.6	2771.6	1672.5	1273.3	874.7	475.5	76.3	71.0	65.1	59.9	53.9
77.5°	2631.5	1903.4	1175.3	897.1	618.9	340.7	62.5	59.2	55.9	52.0	48.7
80°	1642.9	1124.7	606.4	467.0	326.9	187.4	47.4	45.4	43.4	40.8	38.8
82.5°	1149.0	687.3	225.6	176.3	126.9	77.0	27.6	28.3	28.9	28.9	29.6
85°	482.1	260.5	38.8	32.9	27.0	21.0	15.1	16.4	18.4	19.7	21.0
87.5°	8.6	4.6	0.0	1.3	3.3	4.6	5.9	7.9	9.2	11.2	12.5
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: P368173
 CATALOG NUMBER: MSA-SA3D-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P368173

CATALOG NUMBER: MSA-SA3D-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4
2.5°	1574.5	1584.4	1593.6	1603.5	1595.6	1588.4	1580.5	1572.6	1560.7	1549.5	1537.7
5°	1915.9	1883.0	1850.1	1817.2	1767.2	1717.3	1666.6	1616.6	1610.7	1604.8	1598.2
7.5°	1799.5	1722.5	1644.9	1568.0	1495.6	1423.3	1350.9	1278.6	1256.2	1234.5	1212.1
10°	1610.1	1550.9	1491.0	1431.8	1379.9	1327.2	1275.3	1222.7	1168.1	1113.5	1058.2
12.5°	1566.6	1504.8	1442.3	1380.5	1333.2	1285.8	1238.5	1191.1	1129.9	1068.8	1007.6
15°	1475.9	1408.8	1341.7	1274.6	1211.5	1148.3	1084.6	1021.4	947.7	874.1	800.4
17.5°	1364.7	1285.8	1206.2	1126.6	1043.8	960.9	878.0	795.2	710.3	626.1	541.3
20°	1232.5	1124.7	1016.2	908.3	805.7	703.1	599.8	497.2	443.9	391.3	338.1
22.5°	1071.4	931.3	791.9	651.8	567.6	482.8	398.6	313.7	290.7	267.7	244.7
25°	929.3	770.8	612.3	453.8	400.5	347.3	294.0	240.7	230.2	219.0	208.5
27.5°	781.4	632.7	483.4	334.1	303.9	272.9	242.7	211.8	204.5	198.0	190.7
30°	599.2	488.0	376.2	265.1	245.3	225.6	205.2	185.5	182.2	178.2	174.9
32.5°	464.3	382.8	301.9	220.3	209.1	198.0	186.8	175.6	170.3	165.1	159.2
35°	388.0	322.9	257.2	191.4	183.5	174.9	167.1	158.5	153.2	147.3	142.1
37.5°	321.6	274.3	226.2	178.2	169.7	161.1	151.9	143.4	139.4	135.5	131.5
40°	265.1	237.4	209.8	182.2	169.7	157.2	144.7	132.2	128.9	125.6	122.3
42.5°	219.0	201.3	182.8	165.1	155.9	147.3	138.1	128.9	124.3	119.0	114.4
45°	176.9	167.1	157.8	148.0	148.6	149.3	149.3	150.0	138.1	125.6	113.8
47.5°	143.4	138.8	133.5	128.9	134.2	139.4	144.0	149.3	136.8	124.3	111.2
50°	123.0	119.7	115.8	111.8	117.1	123.0	128.3	133.5	128.3	123.6	118.4
52.5°	112.5	107.9	103.3	98.7	100.6	103.3	105.2	107.2	107.2	107.2	107.2
55°	105.9	101.3	96.0	90.8	88.8	86.2	84.2	81.6	78.3	75.6	72.3
57.5°	100.6	95.4	89.4	84.2	80.9	77.0	73.7	69.7	66.4	62.5	59.2
60°	95.4	90.1	84.2	78.9	75.6	72.3	68.4	65.1	61.2	57.9	53.9
62.5°	88.1	83.5	78.9	74.3	71.0	68.4	65.1	61.8	57.9	53.9	49.3
65°	80.2	77.0	73.0	69.1	65.8	62.5	59.2	55.9	52.0	48.7	44.7
67.5°	73.0	69.7	67.1	63.8	59.9	56.6	52.6	48.7	46.0	43.4	40.1
70°	67.1	64.5	62.5	59.9	55.9	52.6	48.7	44.7	42.8	40.1	38.1
72.5°	61.2	59.2	56.6	54.6	51.3	48.0	44.7	41.4	39.5	37.5	35.5
75°	52.6	51.3	50.0	48.7	45.4	42.1	38.1	34.9	34.2	33.5	32.9
77.5°	47.4	46.7	45.4	44.1	40.8	37.5	34.2	30.9	31.6	32.2	32.2
80°	38.8	38.8	38.1	38.1	35.5	32.9	29.6	27.0	28.3	30.3	31.6
82.5°	29.6	29.6	29.6	29.6	27.0	24.3	21.7	19.1	21.0	22.4	24.3
85°	20.4	19.7	19.1	18.4	16.4	15.1	13.2	11.2	13.8	15.8	18.4
87.5°	12.5	13.2	13.2	13.2	11.8	9.9	8.6	6.6	7.9	8.6	9.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P368173
 CATALOG NUMBER: MSA-SA3D-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: P368173
 CATALOG NUMBER: MSA-SA3D-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4
2.5°	1525.9	1506.1	1486.4	1466.0	1446.3	1400.2	1354.2	1308.2	1262.1	1296.3	1329.9
5°	1592.3	1554.2	1515.3	1477.2	1438.4	1421.3	1404.9	1387.8	1370.7	1373.3	1376.6
7.5°	1189.8	1164.8	1139.8	1114.1	1089.2	1083.9	1079.3	1074.0	1068.8	1079.9	1090.5
10°	1003.7	968.8	933.3	898.4	862.9	843.8	824.8	805.7	786.6	784.6	782.0
12.5°	946.4	893.2	840.5	787.3	734.0	692.6	651.1	609.7	568.3	571.5	574.8
15°	726.8	673.5	620.9	567.6	514.3	480.8	446.6	413.0	378.8	369.0	359.1
17.5°	456.4	417.0	377.5	337.4	297.9	286.8	276.2	265.1	253.9	250.6	247.3
20°	284.8	267.7	250.6	232.8	215.7	213.1	210.5	207.8	205.2	207.2	209.1
22.5°	221.6	214.4	206.5	199.3	191.4	188.8	186.1	183.5	180.9	182.8	184.2
25°	197.3	192.0	186.8	181.5	176.3	173.6	170.3	167.7	164.4	165.7	167.7
27.5°	183.5	178.9	174.3	169.7	165.1	160.5	156.5	151.9	147.3	150.0	151.9
30°	171.0	165.7	161.1	155.9	150.6	146.0	141.4	136.1	131.5	134.2	136.8
32.5°	153.9	149.3	144.0	139.4	134.2	131.5	128.9	125.6	123.0	125.0	126.3
35°	136.1	132.2	128.9	125.0	121.0	118.4	116.4	113.8	111.2	111.8	113.1
37.5°	127.6	123.0	118.4	113.8	109.2	107.9	106.5	104.6	103.3	103.3	103.3
40°	119.0	114.4	109.8	104.6	100.0	98.0	96.0	94.1	92.1	92.1	92.1
42.5°	109.2	104.6	100.0	95.4	90.8	88.8	86.2	84.2	81.6	81.6	81.6
45°	101.3	96.7	92.7	88.1	83.5	80.2	77.0	73.0	69.7	69.1	68.4
47.5°	98.7	92.1	85.5	78.9	72.3	69.1	65.8	61.8	58.5	57.9	57.2
50°	113.1	100.0	86.8	73.7	60.5	57.9	55.2	52.6	50.0	48.7	48.0
52.5°	107.2	93.4	79.6	65.8	52.0	50.0	48.0	46.0	44.1	42.8	41.4
55°	69.1	63.1	57.9	52.0	46.0	44.7	43.4	41.4	40.1	38.8	37.5
57.5°	55.2	52.0	49.3	46.0	42.8	41.4	40.1	38.1	36.8	34.9	33.5
60°	50.0	47.4	44.7	42.1	39.5	38.1	36.8	35.5	34.2	32.2	30.9
62.5°	45.4	43.4	41.4	39.5	37.5	36.2	34.9	33.5	32.2	30.3	28.3
65°	40.8	39.5	38.1	36.8	35.5	34.2	32.9	30.9	29.6	27.6	25.7
67.5°	37.5	36.8	36.2	35.5	34.9	33.5	31.6	30.3	28.3	26.3	23.7
70°	35.5	35.5	35.5	34.9	34.9	33.5	31.6	30.3	28.3	25.7	23.7
72.5°	33.5	34.2	34.9	34.9	35.5	33.5	31.6	29.6	27.6	25.0	23.0
75°	32.2	32.9	33.5	33.5	34.2	32.9	31.6	29.6	28.3	25.7	23.0
77.5°	32.9	33.5	33.5	34.2	34.2	32.9	31.6	29.6	28.3	25.0	21.7
80°	32.9	32.2	31.6	30.3	29.6	27.0	24.3	21.0	18.4	14.5	11.2
82.5°	25.7	24.3	23.7	22.4	21.0	18.4	15.8	13.2	10.5	7.9	5.3
85°	20.4	19.1	18.4	17.1	15.8	13.8	11.2	9.2	6.6	5.3	3.3
87.5°	10.5	9.9	8.6	7.9	6.6	5.3	3.3	2.0	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: P368173
 CATALOG NUMBER: MSA-SA3D-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: P368173
 CATALOG NUMBER: MSA-SA3D-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°	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4
2.5°	1364.1	1397.6	1393.0	1388.4	1410.1	1431.8	1416.0	1400.9	1385.1	1369.3	1336.5
5°	1379.2	1381.8	1377.2	1372.0	1372.6	1373.3	1362.8	1352.2	1341.7	1331.2	1329.2
7.5°	1101.7	1112.2	1126.6	1140.5	1141.1	1141.1	1133.2	1125.3	1116.8	1108.9	1112.8
10°	780.0	777.4	781.4	785.3	784.6	783.3	804.4	825.4	845.8	866.9	851.7
12.5°	577.5	580.8	564.3	547.9	553.8	559.0	562.3	565.6	568.9	572.2	581.4
15°	349.2	339.4	327.5	315.7	321.6	326.9	332.8	338.1	344.0	349.2	355.2
17.5°	243.3	240.1	234.8	228.9	229.5	230.2	230.9	231.5	231.5	232.2	233.5
20°	211.1	213.1	209.1	204.5	203.2	201.3	199.9	198.6	196.7	195.3	193.4
22.5°	186.1	187.4	188.1	188.1	185.5	182.2	179.6	177.6	174.9	172.3	171.0
25°	169.0	170.3	169.0	167.1	165.7	164.4	163.1	161.1	159.8	157.8	157.2
27.5°	154.6	156.5	156.5	155.9	154.6	152.6	149.3	146.7	143.4	140.1	140.7
30°	139.4	142.1	142.1	141.4	140.7	140.1	136.8	133.5	130.2	126.9	128.3
32.5°	128.3	129.6	128.9	128.3	128.3	127.6	125.0	123.0	120.4	117.7	117.7
35°	113.8	114.4	114.4	114.4	114.4	113.8	111.8	109.8	107.9	105.9	106.5
37.5°	103.3	103.3	105.2	106.5	105.2	103.9	102.6	100.6	99.3	97.3	97.3
40°	91.4	91.4	93.4	94.7	93.4	92.1	91.4	90.1	89.4	88.1	88.1
42.5°	80.9	80.9	82.9	84.2	84.2	83.5	82.2	80.9	79.6	78.3	78.9
45°	67.7	67.1	70.4	73.0	71.7	70.4	70.4	69.7	69.7	69.1	69.7
47.5°	55.9	55.2	57.9	60.5	59.9	58.5	58.5	58.5	58.5	58.5	59.2
50°	46.7	45.4	48.0	50.0	49.3	48.0	48.0	48.7	48.7	48.7	49.3
52.5°	40.1	38.8	40.8	42.1	41.4	40.8	40.8	41.4	41.4	41.4	42.1
55°	35.5	34.2	36.2	37.5	36.8	35.5	36.2	36.2	36.8	36.8	36.8
57.5°	31.6	29.6	30.9	32.2	32.2	31.6	32.2	32.2	32.9	32.9	32.9
60°	28.9	27.0	28.3	28.9	28.9	28.3	28.9	28.9	29.6	29.6	29.6
62.5°	25.7	23.7	25.0	25.7	25.7	25.0	25.7	25.7	26.3	26.3	26.3
65°	23.0	21.0	21.7	22.4	22.4	22.4	23.0	23.0	23.7	23.7	23.7
67.5°	21.7	19.1	19.7	20.4	20.4	20.4	21.0	21.0	21.7	21.7	22.4
70°	21.0	18.4	19.1	19.1	19.7	19.7	19.7	20.4	20.4	20.4	20.4
72.5°	20.4	17.8	17.8	17.8	18.4	18.4	18.4	19.1	19.1	19.1	19.1
75°	20.4	17.8	17.1	16.4	17.1	17.1	17.1	17.8	17.8	17.8	17.8
77.5°	17.8	14.5	13.2	11.2	13.2	14.5	15.1	15.1	15.8	15.8	15.8
80°	7.2	3.3	2.0	0.0	0.7	1.3	2.0	2.6	3.3	3.9	4.6
82.5°	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.0	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: P368173
 CATALOG NUMBER: MSA-SA3D-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: P368173
 CATALOG NUMBER: MSA-SA3D-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4
2.5°	1303.6	1270.7	1237.8	1253.6	1269.4	1285.2	1300.9	1299.6	1297.6	1296.3	1294.4
5°	1327.9	1325.9	1324.0	1314.7	1306.2	1297.0	1287.8	1285.8	1283.2	1281.2	1278.6
7.5°	1116.8	1120.1	1124.0	1113.5	1103.0	1092.4	1081.9	1055.0	1028.0	1000.4	973.4
10°	836.6	820.8	805.7	804.4	803.1	801.7	800.4	797.8	795.2	791.9	789.2
12.5°	591.3	600.5	609.7	606.4	603.1	599.2	595.9	600.5	605.7	610.3	615.0
15°	360.4	366.3	371.6	383.4	395.3	407.1	419.0	423.6	428.8	433.4	438.0
17.5°	234.8	235.5	236.8	249.9	262.4	275.6	288.1	296.6	305.2	313.1	321.6
20°	191.4	189.4	187.4	194.7	201.9	209.1	216.4	224.3	232.2	240.1	248.0
22.5°	170.3	169.0	167.7	170.3	173.0	174.9	177.6	183.5	190.1	196.0	201.9
25°	156.5	155.2	154.6	155.9	157.2	158.5	159.8	163.1	166.4	169.7	173.0
27.5°	140.7	141.4	141.4	142.7	143.4	144.7	145.4	146.7	148.6	150.0	151.3
30°	128.9	130.2	130.9	132.2	132.9	134.2	134.8	134.2	133.5	132.9	132.2
32.5°	117.7	117.1	117.1	118.4	119.0	120.4	121.0	122.3	123.6	124.3	125.6
35°	106.5	107.2	107.2	107.2	107.9	107.9	107.9	109.2	111.2	112.5	113.8
37.5°	96.7	96.7	96.0	98.0	99.3	101.3	102.6	103.9	105.9	107.2	108.5
40°	88.1	88.1	88.1	89.4	90.8	91.4	92.7	96.0	99.3	102.6	105.9
42.5°	78.9	79.6	79.6	80.9	82.2	82.9	84.2	86.8	88.8	91.4	93.4
45°	70.4	71.0	71.7	73.0	73.7	75.0	75.6	77.0	77.6	78.9	79.6
47.5°	60.5	61.2	61.8	63.1	63.8	65.1	65.8	65.1	65.1	64.5	63.8
50°	50.6	51.3	52.0	53.9	55.2	57.2	58.5	57.2	55.9	53.9	52.6
52.5°	42.8	42.8	43.4	44.7	46.0	46.7	48.0	47.4	46.7	46.0	45.4
55°	36.8	36.8	36.8	37.5	38.1	38.8	39.5	40.1	40.1	40.8	40.8
57.5°	32.9	32.2	32.2	32.9	33.5	33.5	34.2	34.9	34.9	35.5	35.5
60°	29.6	28.9	28.9	29.6	30.3	30.9	31.6	31.6	31.6	30.9	30.9
62.5°	26.3	26.3	26.3	27.0	27.0	27.6	27.6	27.6	28.3	28.3	28.3
65°	24.3	24.3	24.3	24.3	24.3	23.7	23.7	24.3	24.3	25.0	25.0
67.5°	22.4	23.0	23.0	22.4	21.7	21.0	20.4	21.0	21.0	21.7	21.7
70°	20.4	20.4	20.4	19.7	19.1	18.4	17.8	17.8	17.8	17.1	17.1
72.5°	19.1	18.4	18.4	17.8	16.4	15.8	14.5	13.8	13.8	13.2	12.5
75°	17.8	17.1	17.1	15.8	14.5	13.2	11.8	11.2	9.9	9.2	7.9
77.5°	15.8	15.8	15.8	13.8	12.5	10.5	8.6	7.2	5.9	3.9	2.6
80°	5.3	5.9	6.6	5.9	5.9	5.3	4.6	3.3	2.6	1.3	0.0
82.5°	0.7	0.7	0.7	0.7	0.7	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: P368173
 CATALOG NUMBER: MSA-SA3D-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: P368173
 CATALOG NUMBER: MSA-SA3D-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°	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4
2.5°	1301.6	1308.8	1316.1	1323.3	1324.0	1324.6	1325.3	1325.9	1309.5	1292.4	1275.9
5°	1291.7	1305.5	1318.7	1331.8	1324.6	1317.4	1310.1	1302.9	1302.3	1302.3	1301.6
7.5°	975.4	976.7	978.7	980.0	982.6	985.2	987.2	989.8	1000.4	1010.9	1020.8
10°	780.7	772.1	762.9	754.4	747.8	740.6	734.0	726.8	732.0	737.9	743.2
12.5°	607.7	600.5	592.6	585.4	582.7	580.1	576.8	574.2	591.3	608.4	624.8
15°	436.7	435.4	433.4	432.1	440.7	449.2	457.8	466.3	480.8	494.6	509.1
17.5°	324.9	328.2	331.5	334.8	340.0	345.3	349.9	355.2	365.7	376.9	387.4
20°	251.9	256.5	260.5	264.4	263.1	261.8	259.8	258.5	267.0	275.6	283.5
22.5°	205.9	209.1	213.1	216.4	217.0	217.7	218.4	219.0	224.3	228.9	234.1
25°	176.3	180.2	183.5	186.8	187.4	188.1	188.8	189.4	196.0	202.6	208.5
27.5°	155.9	159.8	164.4	168.4	169.7	171.0	172.3	173.6	177.6	180.9	184.8
30°	137.5	142.7	148.0	153.2	155.2	157.2	159.2	161.1	165.1	169.7	173.6
32.5°	128.3	131.5	134.2	136.8	141.4	145.4	150.0	153.9	158.5	163.8	168.4
35°	117.7	121.0	125.0	128.3	131.5	134.8	137.5	140.7	143.4	146.0	148.0
37.5°	111.2	114.4	117.1	119.7	121.0	122.3	123.0	124.3	125.6	126.9	127.6
40°	105.9	105.2	105.2	104.6	105.9	107.9	109.2	110.5	114.4	117.7	121.7
42.5°	92.1	90.1	88.8	86.8	90.1	92.7	96.0	98.7	103.9	109.2	114.4
45°	78.3	77.0	75.0	73.7	78.3	82.9	87.5	92.1	98.0	103.3	109.2
47.5°	64.5	65.1	65.1	65.8	70.4	75.0	78.9	83.5	89.4	95.4	101.3
50°	53.9	55.2	56.6	57.9	62.5	66.4	71.0	75.0	81.6	87.5	94.1
52.5°	47.4	49.3	50.6	52.6	56.6	61.2	65.1	69.1	75.0	80.9	86.8
55°	42.8	45.4	47.4	49.3	52.6	55.9	59.2	62.5	68.4	74.3	79.6
57.5°	37.5	39.5	41.4	43.4	46.7	50.0	52.6	55.9	61.2	67.1	72.3
60°	32.9	34.2	36.2	37.5	40.1	43.4	46.0	48.7	53.9	59.2	63.8
62.5°	28.9	30.3	30.9	31.6	34.2	36.8	39.5	42.1	46.7	52.0	56.6
65°	25.7	26.3	26.3	27.0	28.9	31.6	33.5	35.5	40.8	45.4	50.6
67.5°	21.7	22.4	22.4	22.4	24.3	26.3	28.3	30.3	34.9	40.1	44.7
70°	17.1	17.8	17.8	17.8	19.7	22.4	24.3	26.3	30.3	34.2	38.1
72.5°	13.2	13.2	13.8	13.8	15.8	18.4	20.4	22.4	25.7	28.9	32.2
75°	8.6	9.2	9.2	9.9	11.8	14.5	16.4	18.4	21.7	25.0	27.6
77.5°	3.3	4.6	5.3	5.9	7.9	9.9	11.8	13.8	16.4	19.7	22.4
80°	0.0	0.7	0.7	0.7	2.0	2.6	3.9	4.6	6.6	9.2	11.2
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: P368173
 CATALOG NUMBER: MSA-SA3D-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: P368173
 CATALOG NUMBER: MSA-SA3D-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4
2.5°	1258.8	1295.0	1331.2	1367.4	1403.5	1448.3	1493.0	1499.6	1506.1	1498.2	1491.0
5°	1300.9	1318.7	1335.8	1353.6	1370.7	1422.0	1472.6	1473.3	1473.3	1473.9	1473.9
7.5°	1031.3	1046.4	1061.5	1076.0	1091.1	1124.7	1158.2	1170.7	1182.5	1179.9	1177.3
10°	748.5	768.2	787.3	807.0	826.1	857.0	887.9	899.7	910.9	947.1	983.9
12.5°	641.9	661.0	680.1	698.5	717.6	749.1	780.7	803.7	826.1	848.4	870.8
15°	522.9	538.0	553.8	568.9	584.0	598.5	613.0	641.3	668.9	691.2	713.6
17.5°	397.9	404.5	410.4	417.0	422.9	429.5	436.1	447.9	459.1	478.8	497.9
20°	292.0	297.3	302.5	307.1	312.4	319.0	325.6	334.1	342.0	346.6	350.6
22.5°	238.7	246.6	254.5	261.8	269.7	274.3	278.9	281.5	284.1	286.1	288.1
25°	215.1	222.3	228.9	236.1	242.7	244.7	246.6	251.9	257.2	257.2	257.2
27.5°	188.1	198.0	208.5	218.4	228.2	230.9	232.8	234.8	236.1	233.5	230.2
30°	177.6	187.4	197.3	206.5	216.4	220.3	223.6	225.6	227.6	224.3	221.0
32.5°	173.0	182.2	190.7	199.9	208.5	213.8	218.4	223.6	228.2	228.9	230.2
35°	150.6	156.5	163.1	169.0	174.9	177.6	180.2	182.2	183.5	183.5	183.5
37.5°	128.9	136.8	145.4	153.2	161.1	167.1	173.0	173.6	173.6	174.9	176.9
40°	125.0	132.9	140.7	148.0	155.9	162.5	168.4	169.0	169.7	171.0	172.3
42.5°	119.7	128.3	136.8	145.4	153.9	160.5	166.4	166.4	165.7	167.7	169.0
45°	114.4	123.0	130.9	139.4	147.3	155.9	163.8	161.8	159.2	162.5	165.1
47.5°	107.2	116.4	125.6	134.2	143.4	151.3	158.5	157.2	155.2	158.5	161.8
50°	100.0	109.2	118.4	127.6	136.8	145.4	153.2	151.9	150.6	154.6	157.8
52.5°	92.7	101.9	111.8	121.0	130.2	137.5	144.0	143.4	142.7	146.7	151.3
55°	85.5	94.1	103.3	111.8	120.4	128.3	135.5	134.2	132.9	136.1	139.4
57.5°	77.6	86.2	94.1	102.6	110.5	117.1	123.0	121.0	119.0	123.0	126.9
60°	69.1	77.0	84.8	92.1	100.0	105.2	109.8	108.5	106.5	110.5	114.4
62.5°	61.2	68.4	75.6	82.2	89.4	93.4	97.3	96.0	94.7	98.7	103.3
65°	55.2	61.2	66.4	72.3	77.6	81.6	85.5	83.5	81.6	86.2	90.1
67.5°	49.3	53.9	59.2	63.8	68.4	71.7	75.0	73.7	71.7	75.0	78.3
70°	42.1	46.7	51.3	55.2	59.9	63.1	66.4	64.5	61.8	65.1	68.4
72.5°	35.5	39.5	43.4	46.7	50.6	53.3	55.9	53.9	52.0	54.6	57.2
75°	30.9	34.2	37.5	40.1	43.4	44.7	46.0	45.4	44.1	46.7	48.7
77.5°	25.0	27.6	30.9	33.5	36.2	36.2	36.2	36.8	36.8	39.5	42.8
80°	13.2	15.8	18.4	20.4	23.0	23.0	22.4	23.7	24.3	27.6	30.9
82.5°	0.0	2.0	3.9	5.9	7.9	7.2	5.9	6.6	6.6	7.9	9.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.3
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: P368173
 CATALOG NUMBER: MSA-SA3D-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: P368173
 CATALOG NUMBER: MSA-SA3D-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°	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4
2.5°	1483.1	1475.2	1470.0	1465.4	1460.1	1454.8	1461.4	1468.0	1473.9	1480.5	1500.2
5°	1474.6	1474.6	1470.0	1465.4	1460.8	1456.2	1466.0	1475.2	1485.1	1494.3	1493.6
7.5°	1174.0	1171.4	1199.0	1226.0	1253.6	1280.5	1287.8	1295.0	1301.6	1308.8	1306.9
10°	1020.1	1056.3	1068.1	1079.9	1091.8	1103.6	1118.1	1132.6	1147.0	1161.5	1166.8
12.5°	893.2	915.5	953.7	991.2	1029.3	1066.8	1085.9	1105.6	1124.7	1143.7	1181.2
15°	736.0	758.3	791.2	824.1	857.0	889.9	920.1	951.0	981.3	1011.5	1056.9
17.5°	517.6	536.7	561.7	586.7	611.0	636.0	682.7	729.4	776.1	822.8	870.8
20°	355.2	359.1	370.9	383.4	395.3	407.1	449.2	492.0	534.1	576.1	639.3
22.5°	289.4	291.4	297.3	303.2	308.5	314.4	336.1	358.4	380.2	401.9	453.2
25°	256.5	256.5	260.5	264.4	268.3	272.3	284.1	296.0	307.1	319.0	351.9
27.5°	227.6	224.3	230.2	236.1	242.0	248.0	256.5	265.7	274.3	282.8	305.2
30°	217.7	214.4	221.6	228.9	236.1	243.3	251.9	260.5	268.3	276.9	292.0
32.5°	230.9	231.5	234.1	236.8	238.7	241.4	245.3	249.9	253.9	257.8	271.0
35°	183.5	183.5	188.1	192.7	196.7	201.3	208.5	215.7	223.0	230.2	244.0
37.5°	178.2	179.6	183.5	188.1	192.0	196.0	205.2	215.1	224.3	233.5	244.7
40°	173.0	174.3	179.6	184.8	190.1	195.3	204.5	213.1	222.3	230.9	241.4
42.5°	171.0	172.3	178.9	186.1	192.7	199.3	207.2	215.1	222.3	230.2	244.7
45°	168.4	171.0	178.9	187.4	195.3	203.2	210.5	217.7	224.9	232.2	249.9
47.5°	164.4	167.7	176.9	185.5	194.7	203.2	217.0	231.5	245.3	259.1	267.7
50°	161.8	165.1	174.9	184.8	194.7	204.5	226.9	249.3	271.0	293.3	288.7
52.5°	155.2	159.2	171.7	184.2	196.7	209.1	228.9	248.6	268.3	288.1	278.9
55°	142.7	146.0	160.5	174.9	188.8	203.2	217.7	232.2	246.0	260.5	249.9
57.5°	130.2	134.2	148.0	161.8	174.9	188.8	196.0	203.2	210.5	217.7	213.8
60°	118.4	122.3	140.7	159.2	177.6	196.0	189.4	182.8	175.6	169.0	173.6
62.5°	107.2	111.2	128.9	146.0	163.8	180.9	171.7	162.5	153.2	144.0	151.3
65°	94.7	98.7	105.2	112.5	119.0	125.6	125.0	123.6	123.0	121.7	129.6
67.5°	81.6	84.8	88.1	92.1	95.4	98.7	100.6	103.3	105.2	107.2	113.8
70°	71.0	74.3	78.3	81.6	85.5	88.8	90.1	91.4	92.1	93.4	99.3
72.5°	59.2	61.8	67.1	72.3	77.0	82.2	82.9	82.9	83.5	83.5	88.1
75°	51.3	53.3	57.2	61.2	64.5	68.4	70.4	72.3	73.7	75.6	78.3
77.5°	45.4	48.0	49.3	50.0	51.3	52.0	53.3	54.6	55.9	57.2	57.9
80°	33.5	36.8	38.1	38.8	40.1	40.8	40.8	40.1	40.1	39.5	40.1
82.5°	10.5	11.8	13.8	15.8	17.8	19.7	20.4	21.0	21.0	21.7	21.0
85°	2.0	2.6	3.9	5.3	5.9	7.2	6.6	5.3	4.6	3.3	2.6
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: P368173
 CATALOG NUMBER: MSA-SA3D-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: P368173
 CATALOG NUMBER: MSA-SA3D-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4
2.5°	1520.0	1539.0	1558.8	1550.9	1543.0	1535.1	1527.2	1528.5	1530.5	1531.8	1533.1
5°	1493.0	1491.7	1491.0	1513.4	1536.4	1558.8	1581.1	1605.5	1630.4	1654.8	1679.1
7.5°	1304.9	1302.3	1300.3	1329.2	1358.2	1387.1	1416.0	1449.6	1483.8	1517.3	1550.9
10°	1172.0	1177.3	1182.5	1194.4	1206.9	1218.7	1230.6	1262.8	1295.0	1326.6	1358.8
12.5°	1218.7	1255.6	1293.0	1300.3	1306.9	1314.1	1320.7	1325.3	1329.9	1334.5	1339.1
15°	1103.0	1148.3	1193.7	1212.8	1231.2	1250.3	1268.7	1317.4	1365.4	1414.1	1462.1
17.5°	918.8	966.2	1014.2	1071.4	1128.6	1185.8	1243.1	1295.7	1348.3	1400.9	1453.5
20°	703.1	766.2	829.4	901.7	974.7	1047.1	1119.4	1172.0	1224.0	1276.6	1328.6
22.5°	505.1	556.4	607.7	695.2	782.0	869.5	956.3	1047.7	1139.8	1231.2	1322.6
25°	384.8	417.0	449.9	536.0	622.2	707.7	793.8	919.5	1045.1	1170.7	1296.3
27.5°	326.9	349.2	370.9	448.6	526.2	603.1	680.7	830.0	979.3	1128.6	1277.9
30°	307.8	322.9	338.1	403.8	470.3	536.0	601.8	753.1	904.3	1055.6	1206.9
32.5°	284.1	296.6	309.8	367.7	425.5	482.8	540.6	688.6	836.6	983.9	1131.9
35°	257.2	271.0	284.1	342.0	399.9	457.1	515.0	668.2	821.5	974.7	1128.0
37.5°	255.2	266.4	276.9	344.0	411.7	478.8	545.9	699.1	852.4	1005.0	1158.2
40°	252.6	263.1	273.6	342.0	409.7	478.1	545.9	706.4	866.9	1027.3	1187.8
42.5°	259.1	272.9	287.4	347.9	408.4	468.3	528.8	697.8	866.9	1035.2	1204.3
45°	268.3	286.1	303.9	359.1	414.4	469.6	524.8	708.3	891.8	1074.7	1258.2
47.5°	276.9	285.4	294.0	346.6	398.6	451.2	503.1	690.6	878.0	1065.5	1252.9
50°	284.8	280.2	275.6	333.5	391.3	448.6	506.4	685.3	863.6	1042.5	1220.7
52.5°	269.0	259.8	249.9	311.8	373.6	434.7	496.6	676.8	857.0	1037.2	1217.4
55°	239.4	228.9	218.4	279.5	340.0	401.2	461.7	641.3	820.8	1000.4	1179.9
57.5°	209.1	205.2	200.6	247.3	294.0	340.0	386.7	586.0	786.0	985.2	1184.5
60°	178.2	182.2	186.8	220.3	253.9	286.8	320.3	515.6	710.3	905.7	1100.3
62.5°	157.8	165.1	171.7	199.9	228.9	257.2	285.4	469.6	653.8	837.9	1022.1
65°	138.1	146.0	153.9	187.4	221.6	255.2	288.7	444.6	600.5	756.4	912.2
67.5°	120.4	126.3	132.9	176.9	221.0	265.1	309.1	436.7	563.7	691.2	818.2
70°	105.2	110.5	116.4	167.7	219.0	270.3	321.6	430.1	539.3	647.8	756.4
72.5°	92.7	97.3	101.9	153.9	205.9	257.8	309.8	406.5	502.5	599.2	695.2
75°	80.9	82.9	85.5	129.6	173.0	217.0	260.5	324.9	390.0	454.5	518.9
77.5°	58.5	58.5	59.2	72.3	84.8	98.0	110.5	150.6	190.7	230.2	270.3
80°	40.1	40.8	40.8	46.0	50.6	55.9	60.5	69.1	77.0	85.5	93.4
82.5°	20.4	19.1	18.4	23.7	28.9	34.2	39.5	41.4	42.8	44.7	46.0
85°	2.0	0.7	0.0	3.3	6.6	9.9	13.2	15.8	18.4	21.0	23.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P368173
 CATALOG NUMBER: MSA-SA3D-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: P368173

CATALOG NUMBER: MSA-SA3D-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°	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4
2.5°	1527.8	1522.6	1517.3	1512.1	1544.3	1577.2	1609.4	1641.6	1733.0	1792.9	1786.3
5°	1702.8	1726.5	1750.1	1773.8	1812.0	1850.8	1888.9	1927.1	2062.6	2145.4	2157.3
7.5°	1587.7	1623.9	1660.7	1696.9	1770.5	1843.5	1917.2	1990.2	2101.4	2187.5	2236.2
10°	1400.2	1441.7	1482.5	1523.9	1606.8	1690.3	1773.2	1856.0	1981.0	2100.0	2161.2
12.5°	1404.2	1469.3	1534.4	1599.5	1671.9	1744.2	1815.9	1888.3	1964.6	2004.7	2090.8
15°	1513.4	1564.7	1616.0	1667.3	1762.0	1856.7	1950.7	2045.5	2090.8	2187.5	2288.1
17.5°	1553.5	1654.1	1754.1	1854.1	1972.4	2090.2	2208.6	2326.3	2411.8	2546.0	2649.9
20°	1479.2	1629.8	1779.7	1930.4	2092.8	2255.3	2417.7	2580.2	2673.6	2801.2	2961.6
22.5°	1482.5	1642.3	1801.4	1961.3	2185.5	2409.2	2633.4	2857.1	3107.6	3353.6	3431.9
25°	1505.5	1714.6	1923.1	2132.3	2391.4	2650.5	2909.7	3168.8	3471.4	3729.8	3833.7
27.5°	1513.4	1748.8	1983.6	2219.1	2587.4	2955.7	3324.0	3692.3	4053.4	4345.4	4456.6
30°	1494.3	1782.4	2069.8	2357.2	2809.0	3260.9	3712.7	4164.6	4507.2	4847.3	4985.4
32.5°	1498.9	1865.9	2232.9	2599.9	3132.0	3664.7	4196.8	4728.9	4947.9	5254.4	5497.7
35°	1530.5	1933.0	2334.8	2737.4	3326.0	3914.6	4503.3	5091.9	5451.0	5774.6	5981.1
37.5°	1604.1	2050.1	2495.3	2941.2	3664.7	4388.8	5112.3	5835.8	6391.6	6947.3	7042.0
40°	1658.7	2129.6	2600.6	3071.5	3911.4	4751.2	5591.1	6431.0	7059.8	7662.9	7727.3
42.5°	1720.5	2236.2	2752.5	3268.1	4207.3	5146.5	6085.7	7024.9	7753.0	8367.9	8410.7
45°	1788.3	2319.1	2849.2	3379.3	4363.2	5346.5	6330.4	7313.7	8164.1	8878.3	8717.2
47.5°	1820.5	2388.1	2955.7	3523.3	4578.3	5632.6	6687.5	7741.8	8504.8	9134.8	8946.7
50°	1845.5	2469.7	3094.5	3718.6	4824.9	5931.2	7037.4	8143.7	8908.6	9490.0	9195.3
52.5°	1915.9	2613.7	3312.2	4010.0	5186.6	6362.6	7539.2	8715.2	9455.1	9989.2	9576.1
55°	1984.3	2788.0	3592.4	4396.1	5661.5	6927.6	8193.0	9458.4	10195.0	10652.8	10091.8
57.5°	2070.4	2957.0	3843.0	4728.9	6082.4	7436.0	8788.9	10142.4	10862.6	11368.4	10785.7
60°	2048.1	2995.2	3942.9	4890.0	6268.6	7647.1	9025.7	10404.2	11259.9	11881.4	11486.1
62.5°	1961.3	2900.5	3839.0	4778.2	6132.4	7486.0	8840.2	10193.7	11219.1	12060.9	11928.1
65°	1785.7	2658.4	3531.9	4404.6	5697.7	6991.4	8284.4	9577.5	10842.9	11914.3	11961.6
67.5°	1554.8	2291.4	3027.4	3764.0	4970.3	6176.5	7382.1	8588.3	10081.9	11331.6	11472.3
70°	1310.1	1863.3	2417.1	2970.2	4031.7	5093.2	6154.1	7215.7	8768.5	10026.0	10291.7
72.5°	1050.4	1406.2	1761.3	2116.5	2882.7	3648.3	4414.5	5180.1	6546.1	7522.1	7985.8
75°	680.7	842.5	1004.3	1166.1	1676.5	2186.2	2696.6	3206.3	4113.3	4832.1	5356.3
77.5°	303.2	336.1	368.3	401.2	795.2	1189.1	1583.1	1977.1	2371.0	2805.1	2928.1
80°	108.5	123.0	138.1	152.6	346.0	540.0	733.3	926.7	1117.4	1341.7	1396.3
82.5°	45.4	45.4	44.7	44.1	113.1	182.2	251.2	320.3	370.3	425.5	436.1
85°	18.4	13.8	8.6	3.3	14.5	26.3	37.5	48.7	78.3	71.0	131.5
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: P368173
 CATALOG NUMBER: MSA-SA3D-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: P368173

CATALOG NUMBER: MSA-SA3D-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4
2.5°	1761.3	1760.0	1758.7	1757.4	1756.1	1732.4	1709.4	1685.7	1662.7	1691.6	1720.5
5°	2138.2	2172.4	2206.6	2241.5	2275.7	2285.5	2295.4	2305.2	2315.1	2336.2	2357.2
7.5°	2277.0	2334.8	2392.1	2449.9	2507.2	2560.4	2613.1	2666.3	2719.6	2706.4	2693.3
10°	2229.0	2333.5	2438.1	2543.3	2647.9	2670.9	2693.9	2717.6	2740.6	2800.5	2860.3
12.5°	2177.0	2302.6	2428.2	2553.9	2679.5	2749.2	2818.3	2888.0	2957.7	3018.2	3078.7
15°	2423.6	2503.9	2584.1	2665.0	2745.3	2806.4	2866.9	2928.1	2988.6	3030.7	3072.1
17.5°	2747.9	2787.3	2826.8	2866.9	2906.4	2954.4	3002.4	3050.4	3098.4	3123.4	3148.4
20°	3090.5	3107.6	3124.7	3141.8	3158.9	3120.8	3082.7	3044.5	3006.4	3030.0	3053.1
22.5°	3434.5	3440.4	3447.0	3452.9	3458.9	3370.1	3281.3	3192.5	3103.7	3066.2	3028.7
25°	3964.0	3920.6	3877.2	3833.7	3790.3	3685.1	3579.9	3474.6	3369.4	3276.7	3183.9
27.5°	4537.5	4390.2	4243.5	4096.2	3949.5	3844.3	3739.0	3633.8	3528.6	3389.1	3249.7
30°	5115.6	4878.2	4641.4	4404.0	4167.2	4042.2	3917.3	3791.7	3666.7	3527.3	3388.5
32.5°	5645.7	5360.3	5074.8	4788.7	4503.3	4292.8	4082.4	3871.9	3661.4	3564.1	3466.7
35°	6085.1	5747.7	5410.3	5072.2	4734.8	4526.3	4317.8	4109.3	3900.8	3756.1	3612.1
37.5°	6836.2	6456.7	6077.2	5697.7	5318.2	5033.4	4749.3	4464.5	4179.7	4083.0	3986.3
40°	7528.7	7050.6	6572.4	6094.3	5616.1	5377.4	5139.3	4900.5	4662.5	4503.9	4346.1
42.5°	8079.2	7575.4	7072.3	6568.5	6064.7	5828.6	5593.1	5357.0	5120.9	5015.0	4909.7
45°	8198.3	7723.4	7249.2	6774.3	6299.5	6162.0	6025.2	5887.8	5751.0	5677.9	5605.6
47.5°	8433.1	7918.1	7403.8	6888.8	6373.8	6312.0	6250.1	6187.7	6125.8	6160.7	6195.6
50°	8564.6	8039.1	7513.6	6988.1	6462.6	6480.3	6497.4	6515.2	6533.0	6780.3	7026.9
52.5°	8819.8	8289.0	7758.3	7227.5	6696.7	6808.5	6919.7	7031.5	7142.6	7483.3	7823.4
55°	9275.6	8754.0	8232.5	7710.2	7188.7	7336.0	7483.3	7631.3	7778.6	8140.4	8501.5
57.5°	9951.0	9433.4	8916.5	8398.9	7881.9	8028.6	8175.2	8321.9	8468.6	8795.5	9121.7
60°	10801.4	10270.0	9739.3	9207.8	8677.1	8732.3	8786.9	8842.2	8897.4	9248.6	9599.2
62.5°	11463.8	10975.1	10487.1	9998.4	9510.4	9449.2	9388.7	9327.5	9267.0	9534.1	9800.4
65°	11617.7	11273.7	10930.4	10586.4	10242.4	10054.3	9866.9	9678.7	9490.6	9598.5	9706.4
67.5°	11177.0	10944.8	10713.3	10481.1	10249.0	9856.3	9463.7	9070.4	8677.7	8620.5	8563.3
70°	10154.3	10027.3	9901.1	9774.1	9647.8	9042.8	8438.3	7833.2	7228.8	7083.5	6938.1
72.5°	8012.8	8091.7	8170.6	8250.2	8329.1	7681.3	7034.1	6386.3	5738.5	5554.3	5370.8
75°	5650.3	5918.0	6185.7	6453.4	6721.1	6130.4	5540.5	4949.9	4359.3	4182.3	4006.1
77.5°	3063.6	3565.4	4067.2	4569.1	5070.9	4583.5	4096.8	3609.5	3122.1	2999.1	2876.8
80°	1452.2	1741.6	2030.3	2319.7	2609.1	2499.3	2389.4	2278.9	2169.1	2196.1	2223.0
82.5°	445.3	654.4	863.6	1072.7	1281.9	1298.3	1314.1	1330.5	1347.0	1387.8	1427.9
85°	149.3	204.5	259.8	315.0	370.3	467.6	565.0	663.0	760.3	697.2	634.7
87.5°	0.0	2.0	3.3	5.3	6.6	20.4	34.2	48.0	61.8	53.3	45.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P368173
 CATALOG NUMBER: MSA-SA3D-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: P368173

CATALOG NUMBER: MSA-SA3D-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°	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4
2.5°	1750.1	1779.1	1779.7	1781.1	1781.7	1782.4	1785.7	1789.0	1792.9	1796.2	1774.5
5°	2378.9	2400.0	2361.2	2322.3	2282.9	2244.1	2278.9	2313.8	2348.7	2383.5	2368.4
7.5°	2679.5	2666.3	2661.7	2657.8	2653.2	2649.2	2662.4	2675.5	2688.7	2701.8	2700.5
10°	2920.2	2980.0	2994.5	3009.0	3024.1	3038.6	3008.3	2978.1	2947.8	2917.6	2905.1
12.5°	3139.2	3199.7	3247.7	3295.7	3344.4	3392.4	3349.0	3306.3	3262.9	3220.1	3179.3
15°	3114.2	3155.7	3195.1	3234.6	3274.0	3313.5	3299.0	3285.2	3270.8	3256.3	3249.7
17.5°	3174.1	3199.1	3189.9	3180.6	3170.8	3161.6	3157.0	3153.0	3148.4	3143.8	3128.0
20°	3076.7	3100.4	3094.5	3089.2	3083.3	3077.4	3073.4	3069.5	3065.6	3061.6	3049.1
22.5°	2991.2	2953.7	2943.9	2934.7	2924.8	2915.6	2916.9	2918.2	2918.9	2920.2	2976.8
25°	3091.2	2998.5	2962.3	2926.1	2889.3	2853.1	2869.6	2885.3	2901.8	2918.2	2999.8
27.5°	3109.6	2970.2	2912.3	2854.4	2796.6	2738.7	2797.9	2857.1	2916.3	2975.4	3107.6
30°	3249.1	3110.3	3029.4	2949.1	2868.2	2788.0	2863.6	2939.3	3014.9	3090.5	3233.9
32.5°	3368.8	3271.4	3213.5	3155.7	3097.8	3039.9	3043.2	3045.8	3049.1	3052.4	3254.3
35°	3467.4	3323.4	3270.8	3218.8	3166.2	3114.2	3192.5	3270.8	3349.0	3427.3	3608.8
37.5°	3889.7	3793.0	3696.3	3600.3	3503.6	3407.6	3470.0	3532.5	3595.7	3658.1	3858.7
40°	4187.6	4029.7	4004.8	3980.4	3955.4	3931.1	3963.3	3994.9	4027.1	4059.3	4234.9
42.5°	4803.9	4698.0	4630.2	4563.1	4495.4	4428.3	4454.0	4479.6	4505.9	4531.6	4698.0
45°	5532.6	5459.6	5414.9	5370.1	5324.8	5280.0	5241.2	5203.1	5164.3	5126.1	5295.2
47.5°	6230.4	6265.3	6363.9	6461.9	6560.6	6658.6	6578.3	6498.1	6417.2	6337.0	6337.6
50°	7274.2	7520.8	7570.8	7620.1	7670.1	7719.5	7548.5	7377.4	7205.8	7034.8	7014.4
52.5°	8164.1	8504.1	8521.9	8539.6	8558.0	8575.8	8506.7	8437.7	8367.9	8298.9	8115.4
55°	8863.2	9224.3	9248.6	9272.3	9296.6	9320.3	9259.8	9199.9	9139.4	9078.9	8893.5
57.5°	9448.6	9774.8	9789.2	9803.1	9817.5	9832.0	9836.6	9841.2	9846.5	9851.1	9600.5
60°	9950.4	10301.6	10272.7	10244.4	10215.4	10187.2	10143.7	10100.3	10056.9	10013.5	9851.7
62.5°	10067.5	10334.5	10289.8	10245.7	10201.0	10156.9	10120.1	10083.9	10047.1	10010.2	9907.0
65°	9814.2	9922.1	9876.1	9830.0	9783.3	9737.3	9713.6	9690.6	9666.9	9643.2	9630.1
67.5°	8505.4	8448.2	8502.8	8557.4	8612.0	8666.5	8740.9	8815.2	8890.2	8964.5	8921.1
70°	6792.1	6646.7	6707.2	6767.1	6827.6	6887.5	6999.9	7112.4	7225.5	7338.0	7307.7
72.5°	5186.6	5002.5	5011.0	5019.6	5028.8	5037.3	5034.1	5031.4	5028.1	5024.8	5077.5
75°	3829.1	3652.2	3568.7	3485.2	3401.6	3318.1	3297.7	3277.3	3256.9	3236.6	3334.6
77.5°	2753.8	2631.5	2574.2	2517.7	2460.5	2403.9	2432.8	2461.8	2491.4	2520.3	2554.5
80°	2250.7	2277.6	2233.6	2190.1	2146.1	2102.0	2134.9	2167.1	2200.0	2232.9	2131.0
82.5°	1468.6	1508.8	1373.3	1237.8	1102.3	966.8	1049.0	1131.2	1214.1	1296.3	1254.2
85°	571.5	509.1	434.1	359.8	284.8	209.8	272.9	336.1	399.2	462.4	504.5
87.5°	36.8	28.9	23.0	17.1	10.5	4.6	9.9	15.1	21.0	26.3	44.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P368173
 CATALOG NUMBER: MSA-SA3D-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: P368173
 CATALOG NUMBER: MSA-SA3D-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4
2.5°	1753.4	1731.7	1710.7	1669.2	1627.8	1586.4	1544.9	1602.8	1660.7	1718.6	1776.5
5°	2353.9	2338.8	2324.3	2328.3	2332.2	2336.8	2340.8	2349.3	2357.9	2365.8	2374.3
7.5°	2699.9	2698.6	2697.2	2667.0	2636.7	2605.8	2575.6	2590.7	2605.8	2620.9	2636.1
10°	2893.2	2880.7	2868.2	2801.8	2735.4	2668.3	2601.9	2572.9	2543.3	2514.4	2485.5
12.5°	3138.6	3097.1	3056.3	2985.3	2914.9	2843.9	2772.9	2746.6	2719.6	2693.3	2666.3
15°	3243.8	3237.2	3231.3	3180.6	3129.3	3078.7	3027.4	2937.3	2846.5	2756.4	2666.3
17.5°	3112.2	3095.8	3080.0	3160.3	3239.8	3320.1	3400.3	3306.9	3213.5	3120.1	3026.7
20°	3036.6	3024.1	3011.6	3160.9	3309.6	3458.9	3607.5	3566.1	3524.0	3482.5	3441.1
22.5°	3033.3	3090.5	3147.1	3278.0	3408.2	3539.1	3669.3	3741.0	3813.4	3885.0	3956.7
25°	3081.3	3163.5	3245.1	3462.1	3679.2	3896.9	4113.9	4196.1	4277.7	4359.9	4441.5
27.5°	3239.2	3371.4	3502.9	3692.3	3881.8	4071.8	4261.3	4440.8	4621.0	4800.6	4980.1
30°	3376.6	3520.0	3663.4	3889.0	4113.9	4339.5	4564.5	4789.4	5014.3	5239.3	5464.2
32.5°	3456.2	3658.8	3860.7	4135.0	4408.6	4682.8	4957.1	5203.7	5450.4	5696.4	5943.0
35°	3790.3	3972.5	4154.0	4457.2	4760.5	5064.3	5367.5	5672.7	5977.9	6282.4	6587.5
37.5°	4059.3	4260.6	4461.2	4792.7	5123.5	5455.0	5786.5	6208.1	6630.3	7051.9	7473.5
40°	4410.6	4586.2	4761.8	5072.2	5382.0	5692.4	6002.9	6537.6	7072.3	7606.3	8141.0
42.5°	4863.7	5030.1	5196.5	5528.6	5860.8	6192.9	6525.1	7117.0	7708.9	8300.2	8892.1
45°	5464.2	5633.9	5802.9	6067.3	6331.7	6596.1	6860.5	7489.9	8118.7	8748.1	9376.9
47.5°	6338.3	6338.9	6339.6	6530.3	6721.1	6912.5	7103.2	7737.2	8370.6	9004.6	9638.0
50°	6994.0	6973.0	6952.6	7051.2	7149.2	7247.9	7346.5	7929.9	8514.0	9097.3	9680.7
52.5°	7932.5	7749.1	7566.2	7624.7	7682.6	7741.2	7799.0	8293.0	8787.6	9281.5	9775.4
55°	8708.6	8523.2	8337.7	8316.0	8294.3	8272.6	8250.9	8705.4	9159.8	9614.3	10068.8
57.5°	9350.6	9100.0	8850.0	8800.1	8750.7	8700.7	8650.8	9130.2	9609.0	10088.5	10567.3
60°	9690.6	9528.8	9367.0	9334.8	9301.9	9269.7	9236.8	9630.1	10023.4	10416.7	10810.0
62.5°	9804.4	9701.1	9598.5	9659.0	9719.5	9780.7	9841.2	10014.2	10186.5	10359.5	10531.8
65°	9617.6	9604.4	9591.3	9715.6	9839.2	9963.5	10087.8	10045.1	10001.7	9958.9	9916.2
67.5°	8878.3	8834.9	8792.2	9065.1	9337.4	9610.3	9883.3	9676.1	9468.3	9261.1	9053.9
70°	7277.5	7246.6	7216.3	7609.6	8002.9	8396.9	8790.2	8539.0	8287.7	8036.5	7785.2
72.5°	5129.4	5182.0	5234.7	5698.3	6161.4	6625.0	7088.1	6834.8	6581.6	6328.4	6075.2
75°	3431.9	3529.9	3627.9	4105.4	4582.9	5061.0	5538.5	5241.2	4943.9	4646.7	4349.4
77.5°	2588.7	2622.9	2657.1	2959.0	3260.9	3563.4	3865.3	3620.0	3374.0	3128.7	2882.7
80°	2029.0	1926.4	1824.5	1923.8	2023.1	2122.4	2221.7	2075.1	1928.4	1782.4	1635.7
82.5°	1212.1	1170.1	1128.0	1181.9	1235.2	1289.1	1343.0	1279.9	1216.1	1153.0	1089.2
85°	545.9	588.0	629.4	684.0	737.9	792.5	847.1	759.0	670.9	582.7	494.6
87.5°	61.2	78.9	96.7	119.7	142.7	165.7	188.8	147.3	105.2	63.8	22.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P368173
 CATALOG NUMBER: MSA-SA3D-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: P368173
 CATALOG NUMBER: MSA-SA3D-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	1390.4	1390.4
2.5°	1810.0	1843.5
5°	2373.6	2372.3
7.5°	2596.6	2556.5
10°	2448.6	2411.8
12.5°	2572.3	2478.2
15°	2595.3	2524.3
17.5°	2911.0	2794.6
20°	3291.8	3141.8
22.5°	3751.5	3545.7
25°	4196.8	3952.1
27.5°	4833.5	4686.1
30°	5315.6	5166.3
32.5°	5841.7	5740.4
35°	6486.9	6385.6
37.5°	7499.8	7525.4
40°	8156.8	8172.6
42.5°	8953.3	9014.5
45°	9445.3	9513.7
47.5°	9733.3	9828.7
50°	9834.6	9988.5
52.5°	9965.5	10154.9
55°	10279.9	10491.0
57.5°	10735.7	10904.0
60°	10817.9	10825.8
62.5°	10410.1	10288.4
65°	9786.6	9657.0
67.5°	8975.7	8896.7
70°	7681.3	7577.4
72.5°	5881.8	5688.5
75°	4110.0	3870.6
77.5°	2757.1	2631.5
80°	1639.7	1642.9
82.5°	1119.4	1149.0
85°	488.7	482.1
87.5°	15.8	8.6
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: P368173
CATALOG NUMBER: MSA-SA3D-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)