

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: P368701

Luminaire Tested: **MSA-SA4D-830-U-SLR-HSS**

Issue Date: 12/2/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P368701  
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-SA4D-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**

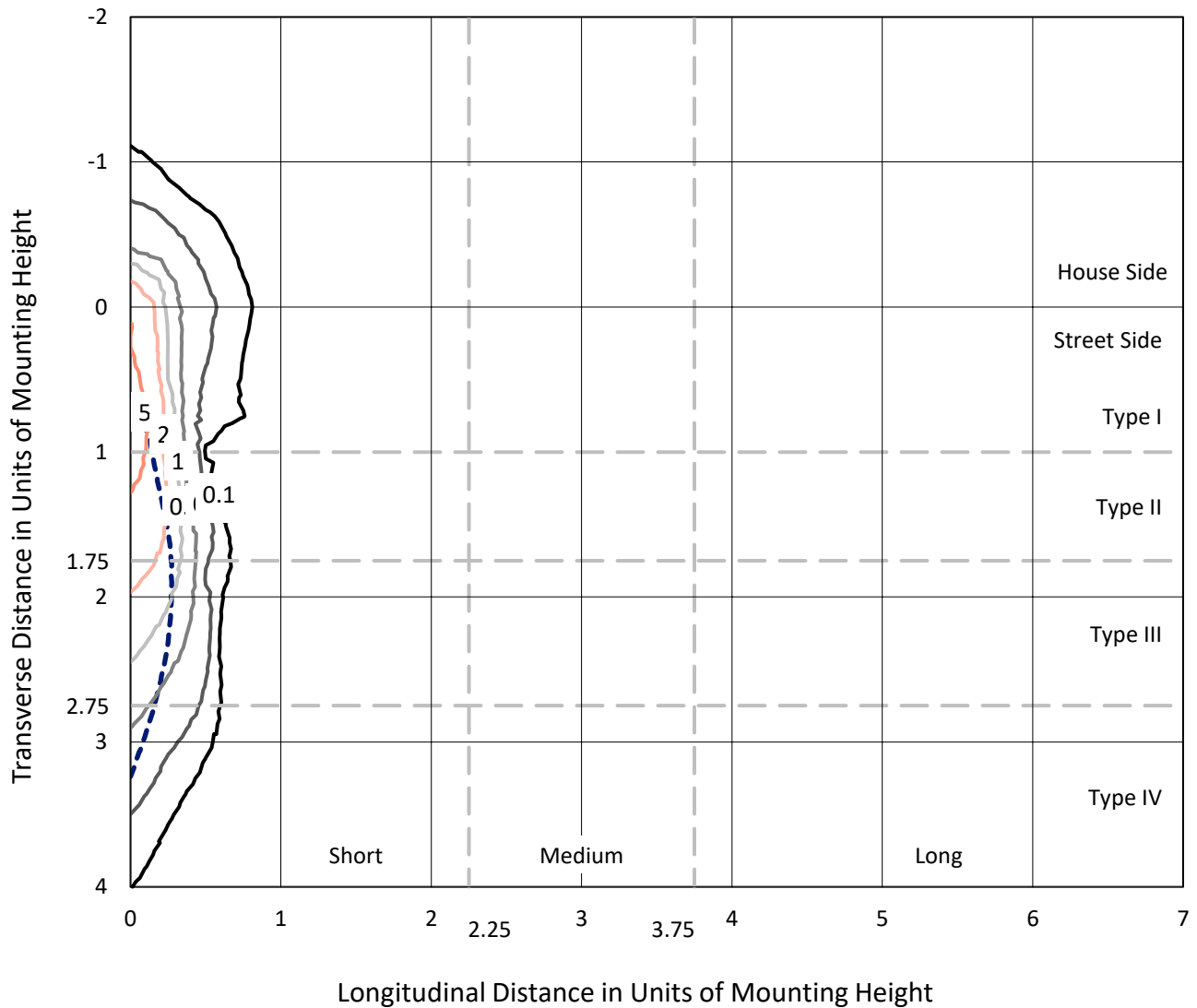
Lumens per Lamp: N/A  
Luminaire Lumens: 15250 lumens  
Efficiency: N/A  
Efficacy: 58.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 259  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

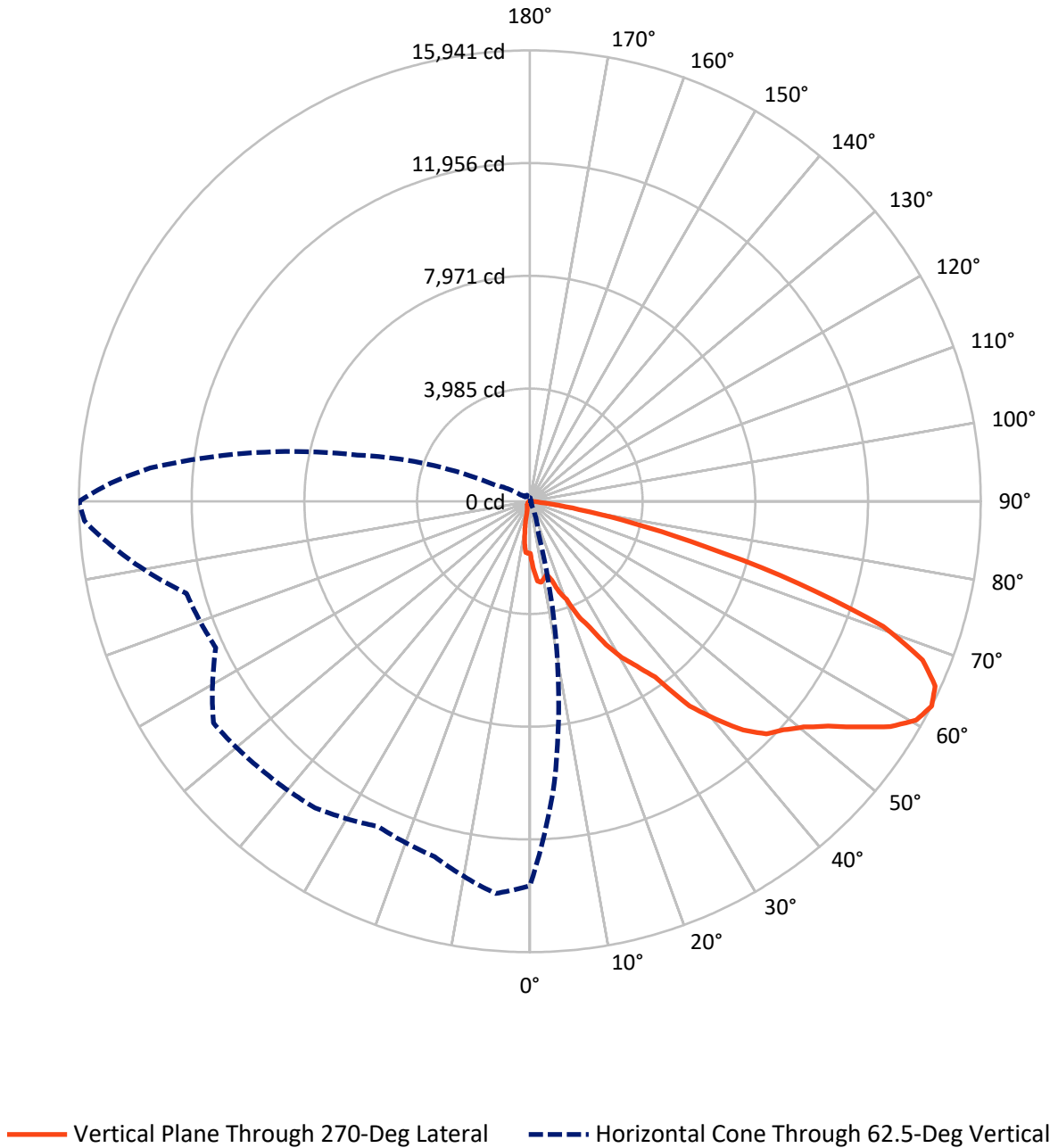
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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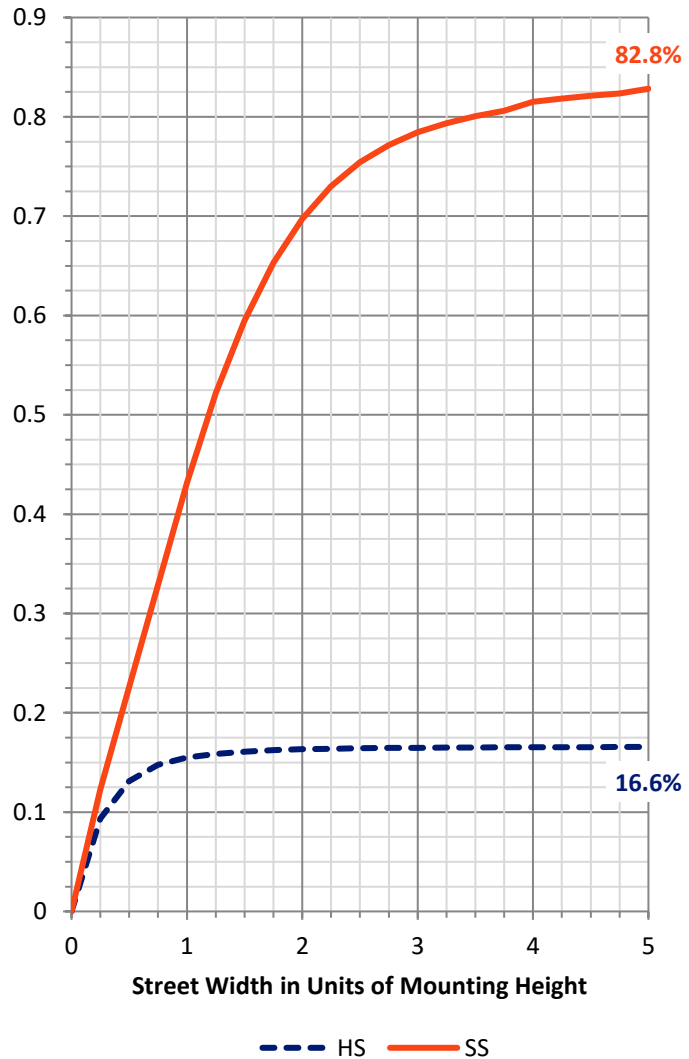
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2546.5	0.0	2546.5
	% Fixture	16.7	0.0	16.7
<b>Street Side</b>	Lumens	12703.4	0.0	12703.4
	% Fixture	83.3	0.0	83.3
<b>Total</b>	Lumens	15250.0	0.0	15250.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	205.3	1.3
10°-20°	536.3	3.5
20°-30°	866.9	5.7
30°-40°	1451.9	9.5
40°-50°	2373.6	15.6
50°-60°	3513.7	23.0
60°-70°	4033.8	26.5
70°-80°	1994.5	13.1
80°-90°	273.9	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°	15250.0	100.0
0°-180°	15250.0	100.0

**Coefficient of Utilization**



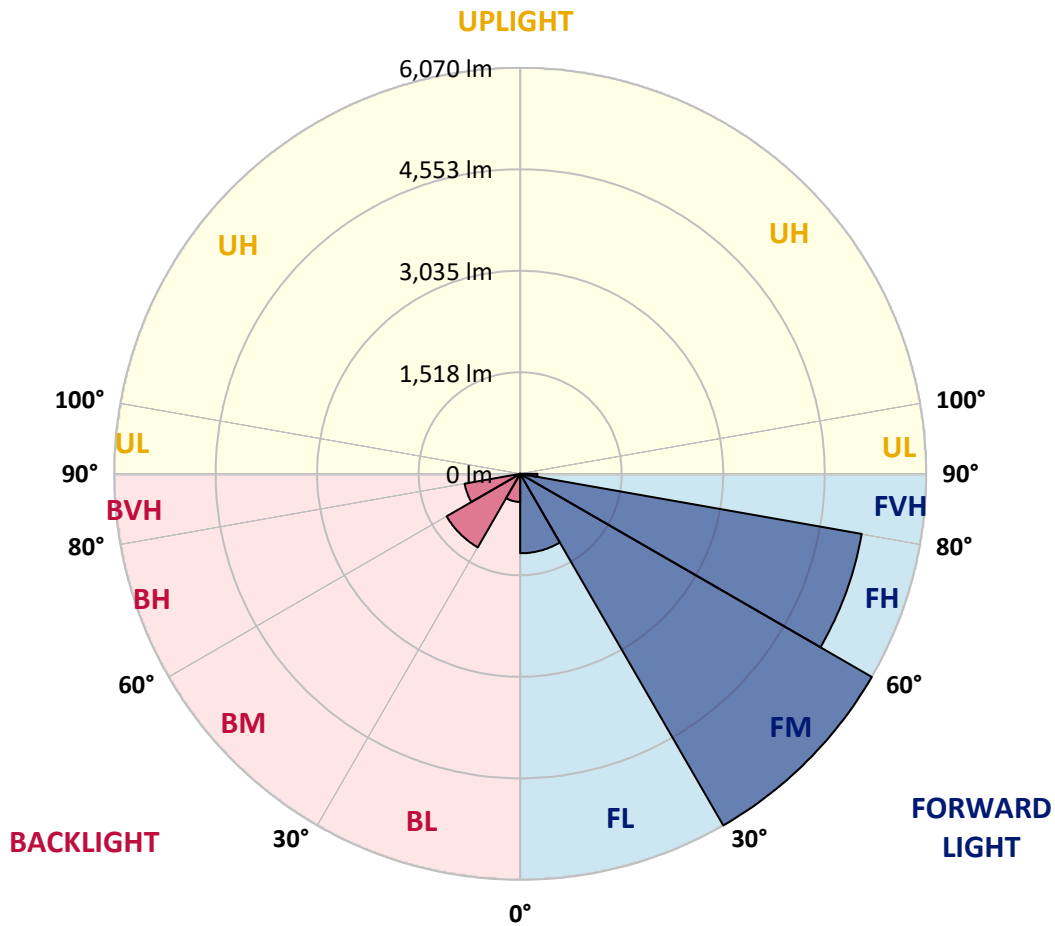
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1188.1	7.8			
FM (30°-60°)	6070.3	39.8			
FH (60°-80°)	5185.7	34.0			G3/7500
FVH (80°-90°)	259.4	1.7			G3/500
BL (0°-30°)	420.5	2.8	B1/500		
BM (30°-60°)	1268.9	8.3	B2/2500		
BH (60°-80°)	842.5	5.5	B2/1000		G2/1000
BVH (80°-90°)	14.6	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°	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7
2.5°	2436.6	2467.1	2496.6	2440.1	2383.6	2327.1	2270.6	2220.2	2169.8	2118.5	2068.1
5°	3135.6	3079.9	3024.3	2947.8	2871.3	2794.8	2718.3	2682.7	2647.0	2611.4	2575.7
7.5°	3379.0	3279.9	3179.9	3112.1	3045.2	2977.3	2909.5	2802.6	2694.8	2587.9	2480.1
10°	3187.7	3082.5	2976.5	2917.4	2858.3	2799.1	2740.0	2607.0	2473.2	2340.2	2206.3
12.5°	3275.5	3161.6	3047.8	2926.1	2804.4	2682.7	2561.0	2459.2	2356.7	2255.0	2152.4
15°	3336.4	3206.0	3074.7	2935.6	2796.5	2657.4	2518.4	2398.4	2279.3	2159.3	2039.4
17.5°	3693.6	3506.7	3319.8	3106.0	2892.2	2678.3	2464.5	2325.4	2187.2	2048.1	1909.0
20°	4152.6	3887.5	3621.5	3332.0	3042.5	2753.1	2463.6	2290.6	2117.6	1944.6	1771.6
22.5°	4686.4	4355.2	4023.1	3665.8	3309.4	2952.1	2594.9	2346.2	2097.6	1849.0	1600.4
25°	5223.6	4924.6	4625.5	4144.8	3664.1	3182.5	2701.8	2386.2	2069.8	1754.2	1437.8
27.5°	6193.7	5659.1	5124.5	4512.5	3901.4	3289.4	2677.4	2315.8	1954.2	1591.7	1230.1
30°	6828.3	6417.2	6005.1	5196.7	4389.1	3580.6	2772.2	2314.1	1856.0	1397.0	938.8
32.5°	7587.2	6985.7	6383.3	5506.1	4629.0	3751.9	2874.8	2336.7	1797.7	1259.6	720.6
35°	8440.0	7785.4	7130.9	6019.9	4908.9	3797.1	2686.1	2164.6	1643.0	1121.4	599.8
37.5°	9946.5	8851.2	7755.9	6460.6	5164.5	3869.2	2573.1	2052.4	1530.8	1010.1	488.5
40°	10801.9	9756.1	8710.4	7091.7	5473.1	3854.5	2235.8	1773.4	1311.8	849.3	386.8
42.5°	11914.6	10588.1	9260.6	7451.6	5642.6	3833.6	2024.6	1596.9	1169.2	740.6	312.9
45°	12574.4	11071.4	9568.4	7608.1	5647.8	3687.6	1727.3	1357.0	986.7	616.3	246.0
47.5°	12990.8	11483.4	9976.1	7871.5	5767.8	3663.2	1558.7	1217.9	877.1	536.4	195.6
50°	13202.0	11690.3	10177.7	8014.9	5852.1	3688.4	1525.6	1186.6	846.7	507.7	167.8
52.5°	13422.0	11964.2	10505.5	8263.5	6021.6	3779.7	1537.8	1191.8	846.7	500.7	154.7
55°	13866.2	12428.4	10989.7	8620.0	6250.3	3880.5	1510.8	1170.1	829.3	487.7	146.9
57.5°	14412.1	12875.2	11337.4	8880.8	6424.1	3967.5	1510.8	1168.3	825.8	482.5	140.0
60°	14308.6	12640.5	10971.4	8587.8	6204.2	3819.7	1436.1	1110.1	785.0	459.0	133.0
62.5°	13598.4	11787.7	9976.1	7773.3	5569.6	3366.8	1163.1	903.2	643.3	382.5	122.6
65°	12763.9	10841.9	8919.0	6891.8	4863.7	2836.5	808.4	634.6	459.9	286.0	111.3
67.5°	11759.0	9709.2	7659.4	5856.5	4054.4	2251.5	448.6	361.6	274.7	186.9	100.0
70°	10015.2	7899.3	5782.6	4396.9	3012.1	1626.5	240.8	203.4	166.0	128.7	91.3
72.5°	7518.6	5580.0	3641.5	2766.1	1891.6	1016.2	140.8	126.9	112.1	98.2	83.5
75°	5115.8	3663.2	2210.6	1683.0	1156.2	628.5	100.8	93.9	86.1	79.1	71.3
77.5°	3478.1	2515.7	1553.4	1185.7	818.0	450.3	82.6	78.2	73.9	68.7	64.3
80°	2171.5	1486.5	801.5	617.2	432.0	247.7	62.6	60.0	57.4	53.9	51.3
82.5°	1518.7	908.4	298.2	233.0	167.8	101.7	36.5	37.4	38.2	38.2	39.1
85°	637.2	344.2	51.3	43.5	35.6	27.8	20.0	21.7	24.3	26.1	27.8
87.5°	11.3	6.1	0.0	1.7	4.3	6.1	7.8	10.4	12.2	14.8	16.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	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°	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7
2.5°	2081.1	2094.1	2106.3	2119.3	2108.9	2099.4	2088.9	2078.5	2062.8	2048.1	2032.4
5°	2532.3	2488.8	2445.3	2401.9	2335.8	2269.7	2202.8	2136.7	2128.9	2121.1	2112.4
7.5°	2378.4	2276.7	2174.1	2072.4	1976.8	1881.2	1785.5	1689.9	1660.4	1631.7	1602.1
10°	2128.0	2049.8	1970.7	1892.5	1823.8	1754.2	1685.6	1616.0	1543.9	1471.7	1398.7
12.5°	2070.7	1989.0	1906.4	1824.7	1762.1	1699.5	1636.9	1574.3	1493.5	1412.6	1331.8
15°	1950.7	1862.0	1773.4	1684.7	1601.2	1517.8	1433.5	1350.0	1252.7	1155.3	1057.9
17.5°	1803.8	1699.5	1594.3	1489.1	1379.6	1270.0	1160.5	1051.0	938.8	827.6	715.4
20°	1629.1	1486.5	1343.1	1200.5	1064.9	929.3	792.8	657.2	586.8	517.2	446.8
22.5°	1416.1	1230.9	1046.6	861.5	750.2	638.1	526.8	414.7	384.2	353.8	323.4
25°	1228.3	1018.8	809.3	599.8	529.4	459.0	388.6	318.2	304.3	289.5	275.6
27.5°	1032.7	836.3	638.9	441.6	401.6	360.8	320.8	279.9	270.4	261.7	252.1
30°	791.9	645.0	497.2	350.3	324.2	298.2	271.2	245.1	240.8	235.6	231.2
32.5°	613.7	505.9	399.0	291.2	276.4	261.7	246.9	232.1	225.1	218.2	210.4
35°	512.9	426.8	339.9	253.0	242.5	231.2	220.8	209.5	202.5	194.7	187.8
37.5°	425.1	362.5	299.0	235.6	224.3	213.0	200.8	189.5	184.3	179.1	173.9
40°	350.3	313.8	277.3	240.8	224.3	207.8	191.2	174.7	170.4	166.0	161.7
42.5°	289.5	266.0	241.7	218.2	206.0	194.7	182.6	170.4	164.3	157.3	151.3
45°	233.8	220.8	208.6	195.6	196.5	197.3	197.3	198.2	182.6	166.0	150.4
47.5°	189.5	183.4	176.5	170.4	177.3	184.3	190.4	197.3	180.8	164.3	146.9
50°	162.6	158.2	153.0	147.8	154.7	162.6	169.5	176.5	169.5	163.4	156.5
52.5°	148.6	142.6	136.5	130.4	133.0	136.5	139.1	141.7	141.7	141.7	141.7
55°	140.0	133.9	126.9	120.0	117.4	113.9	111.3	107.8	103.4	100.0	95.6
57.5°	133.0	126.0	118.2	111.3	106.9	101.7	97.4	92.1	87.8	82.6	78.2
60°	126.0	119.1	111.3	104.3	100.0	95.6	90.4	86.1	80.8	76.5	71.3
62.5°	116.5	110.4	104.3	98.2	93.9	90.4	86.1	81.7	76.5	71.3	65.2
65°	106.1	101.7	96.5	91.3	86.9	82.6	78.2	73.9	68.7	64.3	59.1
67.5°	96.5	92.1	88.7	84.3	79.1	74.8	69.5	64.3	60.9	57.4	53.0
70°	88.7	85.2	82.6	79.1	73.9	69.5	64.3	59.1	56.5	53.0	50.4
72.5°	80.8	78.2	74.8	72.2	67.8	63.5	59.1	54.8	52.2	49.5	46.9
75°	69.5	67.8	66.1	64.3	60.0	55.6	50.4	46.1	45.2	44.3	43.5
77.5°	62.6	61.7	60.0	58.2	53.9	49.5	45.2	40.9	41.7	42.6	42.6
80°	51.3	51.3	50.4	50.4	46.9	43.5	39.1	35.6	37.4	40.0	41.7
82.5°	39.1	39.1	39.1	39.1	35.6	32.2	28.7	25.2	27.8	29.6	32.2
85°	26.9	26.1	25.2	24.3	21.7	20.0	17.4	14.8	18.3	20.9	24.3
87.5°	16.5	17.4	17.4	17.4	15.6	13.0	11.3	8.7	10.4	11.3	13.0
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: P368701  
 CATALOG NUMBER: MSA-SA4D-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: P368701  
 CATALOG NUMBER: MSA-SA4D-830-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7
2.5°	2016.8	1990.7	1964.6	1937.7	1911.6	1850.7	1789.9	1729.0	1668.2	1713.4	1757.7
5°	2104.6	2054.2	2002.9	1952.4	1901.2	1878.6	1856.8	1834.2	1811.6	1815.1	1819.4
7.5°	1572.6	1539.5	1506.5	1472.6	1439.6	1432.6	1426.5	1419.6	1412.6	1427.4	1441.3
10°	1326.5	1280.5	1233.5	1187.5	1140.5	1115.3	1090.1	1064.9	1039.7	1037.1	1033.6
12.5°	1250.9	1180.5	1111.0	1040.5	970.1	915.4	860.6	805.8	751.1	755.4	759.8
15°	960.6	890.2	820.6	750.2	679.8	635.5	590.3	545.9	500.7	487.7	474.6
17.5°	603.3	551.1	499.0	445.9	393.8	379.0	365.1	350.3	335.5	331.2	326.9
20°	376.4	353.8	331.2	307.7	285.1	281.7	278.2	274.7	271.2	273.8	276.4
22.5°	293.0	283.4	273.0	263.4	253.0	249.5	246.0	242.5	239.1	241.7	243.4
25°	260.8	253.8	246.9	239.9	233.0	229.5	225.1	221.7	217.3	219.1	221.7
27.5°	242.5	236.4	230.4	224.3	218.2	212.1	206.9	200.8	194.7	198.2	200.8
30°	226.0	219.1	213.0	206.0	199.1	193.0	186.9	179.9	173.9	177.3	180.8
32.5°	203.4	197.3	190.4	184.3	177.3	173.9	170.4	166.0	162.6	165.2	166.9
35°	179.9	174.7	170.4	165.2	160.0	156.5	153.9	150.4	146.9	147.8	149.5
37.5°	168.6	162.6	156.5	150.4	144.3	142.6	140.8	138.2	136.5	136.5	136.5
40°	157.3	151.3	145.2	138.2	132.1	129.5	126.9	124.3	121.7	121.7	121.7
42.5°	144.3	138.2	132.1	126.0	120.0	117.4	113.9	111.3	107.8	107.8	107.8
45°	133.9	127.8	122.6	116.5	110.4	106.1	101.7	96.5	92.1	91.3	90.4
47.5°	130.4	121.7	113.0	104.3	95.6	91.3	86.9	81.7	77.4	76.5	75.6
50°	149.5	132.1	114.7	97.4	80.0	76.5	73.0	69.5	66.1	64.3	63.5
52.5°	141.7	123.4	105.2	86.9	68.7	66.1	63.5	60.9	58.2	56.5	54.8
55°	91.3	83.5	76.5	68.7	60.9	59.1	57.4	54.8	53.0	51.3	49.5
57.5°	73.0	68.7	65.2	60.9	56.5	54.8	53.0	50.4	48.7	46.1	44.3
60°	66.1	62.6	59.1	55.6	52.2	50.4	48.7	46.9	45.2	42.6	40.9
62.5°	60.0	57.4	54.8	52.2	49.5	47.8	46.1	44.3	42.6	40.0	37.4
65°	53.9	52.2	50.4	48.7	46.9	45.2	43.5	40.9	39.1	36.5	33.9
67.5°	49.5	48.7	47.8	46.9	46.1	44.3	41.7	40.0	37.4	34.8	31.3
70°	46.9	46.9	46.9	46.1	46.1	44.3	41.7	40.0	37.4	33.9	31.3
72.5°	44.3	45.2	46.1	46.1	46.9	44.3	41.7	39.1	36.5	33.0	30.4
75°	42.6	43.5	44.3	44.3	45.2	43.5	41.7	39.1	37.4	33.9	30.4
77.5°	43.5	44.3	44.3	45.2	45.2	43.5	41.7	39.1	37.4	33.0	28.7
80°	43.5	42.6	41.7	40.0	39.1	35.6	32.2	27.8	24.3	19.1	14.8
82.5°	33.9	32.2	31.3	29.6	27.8	24.3	20.9	17.4	13.9	10.4	7.0
85°	26.9	25.2	24.3	22.6	20.9	18.3	14.8	12.2	8.7	7.0	4.3
87.5°	13.9	13.0	11.3	10.4	8.7	7.0	4.3	2.6	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: P368701  
 CATALOG NUMBER: MSA-SA4D-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: P368701  
 CATALOG NUMBER: MSA-SA4D-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°	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7
2.5°	1802.9	1847.3	1841.2	1835.1	1863.8	1892.5	1871.6	1851.6	1830.7	1809.9	1766.4
5°	1822.9	1826.4	1820.3	1813.4	1814.2	1815.1	1801.2	1787.3	1773.4	1759.5	1756.9
7.5°	1456.1	1470.0	1489.1	1507.4	1508.2	1508.2	1497.8	1487.4	1476.1	1465.6	1470.9
10°	1031.0	1027.5	1032.7	1037.9	1037.1	1035.3	1063.2	1091.0	1117.9	1145.7	1125.7
12.5°	763.2	767.6	745.9	724.1	731.9	738.9	743.2	747.6	751.9	756.3	768.5
15°	461.6	448.6	432.9	417.3	425.1	432.0	439.9	446.8	454.6	461.6	469.4
17.5°	321.6	317.3	310.3	302.5	303.4	304.3	305.1	306.0	306.0	306.9	308.6
20°	279.0	281.7	276.4	270.4	268.6	266.0	264.3	262.5	259.9	258.2	255.6
22.5°	246.0	247.7	248.6	248.6	245.1	240.8	237.3	234.7	231.2	227.8	226.0
25°	223.4	225.1	223.4	220.8	219.1	217.3	215.6	213.0	211.2	208.6	207.8
27.5°	204.3	206.9	206.9	206.0	204.3	201.7	197.3	193.9	189.5	185.2	186.0
30°	184.3	187.8	187.8	186.9	186.0	185.2	180.8	176.5	172.1	167.8	169.5
32.5°	169.5	171.3	170.4	169.5	169.5	168.6	165.2	162.6	159.1	155.6	155.6
35°	150.4	151.3	151.3	151.3	151.3	150.4	147.8	145.2	142.6	140.0	140.8
37.5°	136.5	136.5	139.1	140.8	139.1	137.3	135.6	133.0	131.3	128.7	128.7
40°	120.8	120.8	123.4	125.2	123.4	121.7	120.8	119.1	118.2	116.5	116.5
42.5°	106.9	106.9	109.5	111.3	111.3	110.4	108.7	106.9	105.2	103.4	104.3
45°	89.5	88.7	93.0	96.5	94.8	93.0	93.0	92.1	92.1	91.3	92.1
47.5°	73.9	73.0	76.5	80.0	79.1	77.4	77.4	77.4	77.4	77.4	78.2
50°	61.7	60.0	63.5	66.1	65.2	63.5	63.5	64.3	64.3	64.3	65.2
52.5°	53.0	51.3	53.9	55.6	54.8	53.9	53.9	54.8	54.8	54.8	55.6
55°	46.9	45.2	47.8	49.5	48.7	46.9	47.8	47.8	48.7	48.7	48.7
57.5°	41.7	39.1	40.9	42.6	42.6	41.7	42.6	42.6	43.5	43.5	43.5
60°	38.2	35.6	37.4	38.2	38.2	37.4	38.2	38.2	39.1	39.1	39.1
62.5°	33.9	31.3	33.0	33.9	33.9	33.0	33.9	33.9	34.8	34.8	34.8
65°	30.4	27.8	28.7	29.6	29.6	29.6	30.4	30.4	31.3	31.3	31.3
67.5°	28.7	25.2	26.1	26.9	26.9	26.9	27.8	27.8	28.7	28.7	29.6
70°	27.8	24.3	25.2	25.2	26.1	26.1	26.1	26.9	26.9	26.9	26.9
72.5°	26.9	23.5	23.5	23.5	24.3	24.3	24.3	25.2	25.2	25.2	25.2
75°	26.9	23.5	22.6	21.7	22.6	22.6	22.6	23.5	23.5	23.5	23.5
77.5°	23.5	19.1	17.4	14.8	17.4	19.1	20.0	20.0	20.9	20.9	20.9
80°	9.6	4.3	2.6	0.0	0.9	1.7	2.6	3.5	4.3	5.2	6.1
82.5°	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.6	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: P368701  
 CATALOG NUMBER: MSA-SA4D-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: P368701  
 CATALOG NUMBER: MSA-SA4D-830-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7
2.5°	1722.9	1679.5	1636.0	1656.9	1677.7	1698.6	1719.5	1717.7	1715.1	1713.4	1710.8
5°	1755.1	1752.5	1749.9	1737.7	1726.4	1714.3	1702.1	1699.5	1696.0	1693.4	1689.9
7.5°	1476.1	1480.4	1485.6	1471.7	1457.8	1443.9	1430.0	1394.4	1358.7	1322.2	1286.6
10°	1105.7	1084.9	1064.9	1063.2	1061.4	1059.7	1057.9	1054.5	1051.0	1046.6	1043.2
12.5°	781.5	793.7	805.8	801.5	797.1	791.9	787.6	793.7	800.6	806.7	812.8
15°	476.4	484.2	491.2	506.8	522.4	538.1	553.7	559.8	566.8	572.9	579.0
17.5°	310.3	311.2	312.9	330.3	346.8	364.2	380.8	392.1	403.4	413.8	425.1
20°	253.0	250.4	247.7	257.3	266.9	276.4	286.0	296.4	306.9	317.3	327.7
22.5°	225.1	223.4	221.7	225.1	228.6	231.2	234.7	242.5	251.2	259.1	266.9
25°	206.9	205.2	204.3	206.0	207.8	209.5	211.2	215.6	219.9	224.3	228.6
27.5°	186.0	186.9	186.9	188.6	189.5	191.2	192.1	193.9	196.5	198.2	199.9
30°	170.4	172.1	173.0	174.7	175.6	177.3	178.2	177.3	176.5	175.6	174.7
32.5°	155.6	154.7	154.7	156.5	157.3	159.1	160.0	161.7	163.4	164.3	166.0
35°	140.8	141.7	141.7	141.7	142.6	142.6	142.6	144.3	146.9	148.6	150.4
37.5°	127.8	127.8	126.9	129.5	131.3	133.9	135.6	137.3	140.0	141.7	143.4
40°	116.5	116.5	116.5	118.2	120.0	120.8	122.6	126.9	131.3	135.6	140.0
42.5°	104.3	105.2	105.2	106.9	108.7	109.5	111.3	114.7	117.4	120.8	123.4
45°	93.0	93.9	94.8	96.5	97.4	99.1	100.0	101.7	102.6	104.3	105.2
47.5°	80.0	80.8	81.7	83.5	84.3	86.1	86.9	86.1	86.1	85.2	84.3
50°	66.9	67.8	68.7	71.3	73.0	75.6	77.4	75.6	73.9	71.3	69.5
52.5°	56.5	56.5	57.4	59.1	60.9	61.7	63.5	62.6	61.7	60.9	60.0
55°	48.7	48.7	48.7	49.5	50.4	51.3	52.2	53.0	53.0	53.9	53.9
57.5°	43.5	42.6	42.6	43.5	44.3	44.3	45.2	46.1	46.1	46.9	46.9
60°	39.1	38.2	38.2	39.1	40.0	40.9	41.7	41.7	41.7	40.9	40.9
62.5°	34.8	34.8	34.8	35.6	35.6	36.5	36.5	36.5	37.4	37.4	37.4
65°	32.2	32.2	32.2	32.2	32.2	31.3	31.3	32.2	32.2	33.0	33.0
67.5°	29.6	30.4	30.4	29.6	28.7	27.8	26.9	27.8	27.8	28.7	28.7
70°	26.9	26.9	26.9	26.1	25.2	24.3	23.5	23.5	23.5	22.6	22.6
72.5°	25.2	24.3	24.3	23.5	21.7	20.9	19.1	18.3	18.3	17.4	16.5
75°	23.5	22.6	22.6	20.9	19.1	17.4	15.6	14.8	13.0	12.2	10.4
77.5°	20.9	20.9	20.9	18.3	16.5	13.9	11.3	9.6	7.8	5.2	3.5
80°	7.0	7.8	8.7	7.8	7.8	7.0	6.1	4.3	3.5	1.7	0.0
82.5°	0.9	0.9	0.9	0.9	0.9	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: P368701  
 CATALOG NUMBER: MSA-SA4D-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: P368701  
 CATALOG NUMBER: MSA-SA4D-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°	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7
2.5°	1720.3	1729.9	1739.5	1749.0	1749.9	1750.8	1751.6	1752.5	1730.8	1708.2	1686.4
5°	1707.3	1725.6	1742.9	1760.3	1750.8	1741.2	1731.6	1722.1	1721.2	1721.2	1720.3
7.5°	1289.2	1290.9	1293.5	1295.3	1298.7	1302.2	1304.8	1308.3	1322.2	1336.1	1349.2
10°	1031.9	1020.6	1008.4	997.1	988.4	978.8	970.1	960.6	967.5	975.4	982.3
12.5°	803.2	793.7	783.2	773.7	770.2	766.7	762.4	758.9	781.5	804.1	825.8
15°	577.2	575.5	572.9	571.1	582.4	593.7	605.0	616.3	635.5	653.7	672.8
17.5°	429.4	433.8	438.1	442.5	449.4	456.4	462.5	469.4	483.3	498.1	512.0
20°	332.9	339.0	344.2	349.5	347.7	346.0	343.4	341.6	352.9	364.2	374.7
22.5°	272.1	276.4	281.7	286.0	286.9	287.7	288.6	289.5	296.4	302.5	309.5
25°	233.0	238.2	242.5	246.9	247.7	248.6	249.5	250.4	259.1	267.7	275.6
27.5°	206.0	211.2	217.3	222.5	224.3	226.0	227.8	229.5	234.7	239.1	244.3
30°	181.7	188.6	195.6	202.5	205.2	207.8	210.4	213.0	218.2	224.3	229.5
32.5°	169.5	173.9	177.3	180.8	186.9	192.1	198.2	203.4	209.5	216.5	222.5
35°	155.6	160.0	165.2	169.5	173.9	178.2	181.7	186.0	189.5	193.0	195.6
37.5°	146.9	151.3	154.7	158.2	160.0	161.7	162.6	164.3	166.0	167.8	168.6
40°	140.0	139.1	139.1	138.2	140.0	142.6	144.3	146.0	151.3	155.6	160.8
42.5°	121.7	119.1	117.4	114.7	119.1	122.6	126.9	130.4	137.3	144.3	151.3
45°	103.4	101.7	99.1	97.4	103.4	109.5	115.6	121.7	129.5	136.5	144.3
47.5°	85.2	86.1	86.1	86.9	93.0	99.1	104.3	110.4	118.2	126.0	133.9
50°	71.3	73.0	74.8	76.5	82.6	87.8	93.9	99.1	107.8	115.6	124.3
52.5°	62.6	65.2	66.9	69.5	74.8	80.8	86.1	91.3	99.1	106.9	114.7
55°	56.5	60.0	62.6	65.2	69.5	73.9	78.2	82.6	90.4	98.2	105.2
57.5°	49.5	52.2	54.8	57.4	61.7	66.1	69.5	73.9	80.8	88.7	95.6
60°	43.5	45.2	47.8	49.5	53.0	57.4	60.9	64.3	71.3	78.2	84.3
62.5°	38.2	40.0	40.9	41.7	45.2	48.7	52.2	55.6	61.7	68.7	74.8
65°	33.9	34.8	34.8	35.6	38.2	41.7	44.3	46.9	53.9	60.0	66.9
67.5°	28.7	29.6	29.6	29.6	32.2	34.8	37.4	40.0	46.1	53.0	59.1
70°	22.6	23.5	23.5	23.5	26.1	29.6	32.2	34.8	40.0	45.2	50.4
72.5°	17.4	17.4	18.3	18.3	20.9	24.3	26.9	29.6	33.9	38.2	42.6
75°	11.3	12.2	12.2	13.0	15.6	19.1	21.7	24.3	28.7	33.0	36.5
77.5°	4.3	6.1	7.0	7.8	10.4	13.0	15.6	18.3	21.7	26.1	29.6
80°	0.0	0.9	0.9	0.9	2.6	3.5	5.2	6.1	8.7	12.2	14.8
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: P368701  
 CATALOG NUMBER: MSA-SA4D-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: P368701  
 CATALOG NUMBER: MSA-SA4D-830-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7
2.5°	1663.8	1711.6	1759.5	1807.3	1855.1	1914.2	1973.3	1982.0	1990.7	1980.3	1970.7
5°	1719.5	1742.9	1765.5	1789.0	1811.6	1879.4	1946.4	1947.2	1947.2	1948.1	1948.1
7.5°	1363.1	1383.1	1403.0	1422.2	1442.2	1486.5	1530.8	1547.4	1563.0	1559.5	1556.0
10°	989.3	1015.3	1040.5	1066.6	1091.8	1132.7	1173.6	1189.2	1204.0	1251.8	1300.5
12.5°	848.4	873.6	898.9	923.2	948.4	990.1	1031.9	1062.3	1091.8	1121.4	1151.0
15°	691.1	711.1	731.9	751.9	771.9	791.1	810.2	847.6	884.1	913.6	943.2
17.5°	525.9	534.6	542.4	551.1	559.0	567.7	576.3	592.0	606.8	632.8	658.1
20°	386.0	392.9	399.9	406.0	412.9	421.6	430.3	441.6	452.0	458.1	463.3
22.5°	315.6	326.0	336.4	346.0	356.4	362.5	368.6	372.1	375.5	378.1	380.8
25°	284.3	293.8	302.5	312.1	320.8	323.4	326.0	332.9	339.9	339.9	339.9
27.5°	248.6	261.7	275.6	288.6	301.6	305.1	307.7	310.3	312.1	308.6	304.3
30°	234.7	247.7	260.8	273.0	286.0	291.2	295.6	298.2	300.8	296.4	292.1
32.5°	228.6	240.8	252.1	264.3	275.6	282.5	288.6	295.6	301.6	302.5	304.3
35°	199.1	206.9	215.6	223.4	231.2	234.7	238.2	240.8	242.5	242.5	242.5
37.5°	170.4	180.8	192.1	202.5	213.0	220.8	228.6	229.5	229.5	231.2	233.8
40°	165.2	175.6	186.0	195.6	206.0	214.7	222.5	223.4	224.3	226.0	227.8
42.5°	158.2	169.5	180.8	192.1	203.4	212.1	219.9	219.9	219.1	221.7	223.4
45°	151.3	162.6	173.0	184.3	194.7	206.0	216.5	213.8	210.4	214.7	218.2
47.5°	141.7	153.9	166.0	177.3	189.5	199.9	209.5	207.8	205.2	209.5	213.8
50°	132.1	144.3	156.5	168.6	180.8	192.1	202.5	200.8	199.1	204.3	208.6
52.5°	122.6	134.7	147.8	160.0	172.1	181.7	190.4	189.5	188.6	193.9	199.9
55°	113.0	124.3	136.5	147.8	159.1	169.5	179.1	177.3	175.6	179.9	184.3
57.5°	102.6	113.9	124.3	135.6	146.0	154.7	162.6	160.0	157.3	162.6	167.8
60°	91.3	101.7	112.1	121.7	132.1	139.1	145.2	143.4	140.8	146.0	151.3
62.5°	80.8	90.4	100.0	108.7	118.2	123.4	128.7	126.9	125.2	130.4	136.5
65°	73.0	80.8	87.8	95.6	102.6	107.8	113.0	110.4	107.8	113.9	119.1
67.5°	65.2	71.3	78.2	84.3	90.4	94.8	99.1	97.4	94.8	99.1	103.4
70°	55.6	61.7	67.8	73.0	79.1	83.5	87.8	85.2	81.7	86.1	90.4
72.5°	46.9	52.2	57.4	61.7	66.9	70.4	73.9	71.3	68.7	72.2	75.6
75°	40.9	45.2	49.5	53.0	57.4	59.1	60.9	60.0	58.2	61.7	64.3
77.5°	33.0	36.5	40.9	44.3	47.8	47.8	47.8	48.7	48.7	52.2	56.5
80°	17.4	20.9	24.3	26.9	30.4	30.4	29.6	31.3	32.2	36.5	40.9
82.5°	0.0	2.6	5.2	7.8	10.4	9.6	7.8	8.7	8.7	10.4	12.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.7
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: P368701  
 CATALOG NUMBER: MSA-SA4D-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: P368701

CATALOG NUMBER: MSA-SA4D-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°	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7
2.5°	1960.3	1949.8	1942.9	1936.8	1929.8	1922.9	1931.6	1940.3	1948.1	1956.8	1982.9
5°	1949.0	1949.0	1942.9	1936.8	1930.7	1924.6	1937.7	1949.8	1962.9	1975.0	1974.2
7.5°	1551.7	1548.2	1584.7	1620.4	1656.9	1692.5	1702.1	1711.6	1720.3	1729.9	1727.3
10°	1348.3	1396.1	1411.7	1427.4	1443.0	1458.7	1477.8	1496.9	1516.1	1535.2	1542.1
12.5°	1180.5	1210.1	1260.5	1310.0	1360.5	1410.0	1435.2	1461.3	1486.5	1511.7	1561.3
15°	972.7	1002.3	1045.8	1089.2	1132.7	1176.2	1216.1	1257.0	1297.0	1337.0	1397.0
17.5°	684.1	709.3	742.4	775.4	807.6	840.6	902.3	964.1	1025.8	1087.5	1151.0
20°	469.4	474.6	490.3	506.8	522.4	538.1	593.7	650.2	705.9	761.5	845.0
22.5°	382.5	385.1	392.9	400.7	407.7	415.5	444.2	473.8	502.5	531.1	598.9
25°	339.0	339.0	344.2	349.5	354.7	359.9	375.5	391.2	406.0	421.6	465.1
27.5°	300.8	296.4	304.3	312.1	319.9	327.7	339.0	351.2	362.5	373.8	403.4
30°	287.7	283.4	293.0	302.5	312.1	321.6	332.9	344.2	354.7	366.0	386.0
32.5°	305.1	306.0	309.5	312.9	315.6	319.0	324.2	330.3	335.5	340.8	358.2
35°	242.5	242.5	248.6	254.7	259.9	266.0	275.6	285.1	294.7	304.3	322.5
37.5°	235.6	237.3	242.5	248.6	253.8	259.1	271.2	284.3	296.4	308.6	323.4
40°	228.6	230.4	237.3	244.3	251.2	258.2	270.4	281.7	293.8	305.1	319.0
42.5°	226.0	227.8	236.4	246.0	254.7	263.4	273.8	284.3	293.8	304.3	323.4
45°	222.5	226.0	236.4	247.7	258.2	268.6	278.2	287.7	297.3	306.9	330.3
47.5°	217.3	221.7	233.8	245.1	257.3	268.6	286.9	306.0	324.2	342.5	353.8
50°	213.8	218.2	231.2	244.3	257.3	270.4	299.9	329.5	358.2	387.7	381.6
52.5°	205.2	210.4	226.9	243.4	259.9	276.4	302.5	328.6	354.7	380.8	368.6
55°	188.6	193.0	212.1	231.2	249.5	268.6	287.7	306.9	325.1	344.2	330.3
57.5°	172.1	177.3	195.6	213.8	231.2	249.5	259.1	268.6	278.2	287.7	282.5
60°	156.5	161.7	186.0	210.4	234.7	259.1	250.4	241.7	232.1	223.4	229.5
62.5°	141.7	146.9	170.4	193.0	216.5	239.1	226.9	214.7	202.5	190.4	199.9
65°	125.2	130.4	139.1	148.6	157.3	166.0	165.2	163.4	162.6	160.8	171.3
67.5°	107.8	112.1	116.5	121.7	126.0	130.4	133.0	136.5	139.1	141.7	150.4
70°	93.9	98.2	103.4	107.8	113.0	117.4	119.1	120.8	121.7	123.4	131.3
72.5°	78.2	81.7	88.7	95.6	101.7	108.7	109.5	109.5	110.4	110.4	116.5
75°	67.8	70.4	75.6	80.8	85.2	90.4	93.0	95.6	97.4	100.0	103.4
77.5°	60.0	63.5	65.2	66.1	67.8	68.7	70.4	72.2	73.9	75.6	76.5
80°	44.3	48.7	50.4	51.3	53.0	53.9	53.9	53.0	53.0	52.2	53.0
82.5°	13.9	15.6	18.3	20.9	23.5	26.1	26.9	27.8	27.8	28.7	27.8
85°	2.6	3.5	5.2	7.0	7.8	9.6	8.7	7.0	6.1	4.3	3.5
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: P368701  
 CATALOG NUMBER: MSA-SA4D-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: P368701

CATALOG NUMBER: MSA-SA4D-830-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7
2.5°	2008.9	2034.2	2060.2	2049.8	2039.4	2028.9	2018.5	2020.2	2022.9	2024.6	2026.3
5°	1973.3	1971.6	1970.7	2000.3	2030.7	2060.2	2089.8	2122.0	2155.0	2187.2	2219.3
7.5°	1724.7	1721.2	1718.6	1756.9	1795.1	1833.3	1871.6	1915.9	1961.1	2005.5	2049.8
10°	1549.1	1556.0	1563.0	1578.6	1595.2	1610.8	1626.5	1669.1	1711.6	1753.4	1796.0
12.5°	1610.8	1659.5	1709.0	1718.6	1727.3	1736.9	1745.6	1751.6	1757.7	1763.8	1769.9
15°	1457.8	1517.8	1577.8	1603.0	1627.3	1652.5	1676.9	1741.2	1804.7	1869.0	1932.4
17.5°	1214.4	1277.0	1340.5	1416.1	1491.7	1567.3	1643.0	1712.5	1782.1	1851.6	1921.1
20°	929.3	1012.7	1096.2	1191.8	1288.3	1383.9	1479.5	1549.1	1617.8	1687.3	1756.0
22.5°	667.6	735.4	803.2	918.8	1033.6	1149.2	1264.0	1384.8	1506.5	1627.3	1748.2
25°	508.5	551.1	594.6	708.5	822.4	935.4	1049.2	1215.3	1381.3	1547.4	1713.4
27.5°	432.0	461.6	490.3	592.9	695.4	797.1	899.7	1097.1	1294.4	1491.7	1689.0
30°	406.8	426.8	446.8	533.7	621.5	708.5	795.4	995.3	1195.3	1395.2	1595.2
32.5°	375.5	392.1	409.4	485.9	562.4	638.1	714.6	910.2	1105.7	1300.5	1496.1
35°	339.9	358.2	375.5	452.0	528.5	604.2	680.7	883.2	1085.8	1288.3	1490.8
37.5°	337.3	352.1	366.0	454.6	544.2	632.8	721.5	924.1	1126.6	1328.3	1530.8
40°	333.8	347.7	361.6	452.0	541.6	632.0	721.5	933.6	1145.7	1357.8	1570.0
42.5°	342.5	360.8	379.9	459.9	539.8	618.9	698.9	922.3	1145.7	1368.3	1591.7
45°	354.7	378.1	401.6	474.6	547.7	620.7	693.7	936.2	1178.8	1420.4	1663.0
47.5°	366.0	377.3	388.6	458.1	526.8	596.3	665.0	912.8	1160.5	1408.3	1656.0
50°	376.4	370.3	364.2	440.7	517.2	592.9	669.4	905.8	1141.4	1377.8	1613.4
52.5°	355.5	343.4	330.3	412.0	493.8	574.6	656.3	894.5	1132.7	1370.9	1609.1
55°	316.4	302.5	288.6	369.5	449.4	530.3	610.2	847.6	1084.9	1322.2	1559.5
57.5°	276.4	271.2	265.1	326.9	388.6	449.4	511.1	774.5	1038.8	1302.2	1565.6
60°	235.6	240.8	246.9	291.2	335.5	379.0	423.3	681.5	938.8	1197.0	1454.3
62.5°	208.6	218.2	226.9	264.3	302.5	339.9	377.3	620.7	864.1	1107.5	1350.9
65°	182.6	193.0	203.4	247.7	293.0	337.3	381.6	587.6	793.7	999.7	1205.7
67.5°	159.1	166.9	175.6	233.8	292.1	350.3	408.6	577.2	745.0	913.6	1081.4
70°	139.1	146.0	153.9	221.7	289.5	357.3	425.1	568.5	712.8	856.3	999.7
72.5°	122.6	128.7	134.7	203.4	272.1	340.8	409.4	537.2	664.1	791.9	918.8
75°	106.9	109.5	113.0	171.3	228.6	286.9	344.2	429.4	515.5	600.7	685.9
77.5°	77.4	77.4	78.2	95.6	112.1	129.5	146.0	199.1	252.1	304.3	357.3
80°	53.0	53.9	53.9	60.9	66.9	73.9	80.0	91.3	101.7	113.0	123.4
82.5°	26.9	25.2	24.3	31.3	38.2	45.2	52.2	54.8	56.5	59.1	60.9
85°	2.6	0.9	0.0	4.3	8.7	13.0	17.4	20.9	24.3	27.8	31.3
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: P368701  
 CATALOG NUMBER: MSA-SA4D-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: P368701

CATALOG NUMBER: MSA-SA4D-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°	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7
2.5°	2019.4	2012.4	2005.5	1998.5	2041.1	2084.6	2127.2	2169.8	2290.6	2369.7	2361.0
5°	2250.6	2281.9	2313.2	2344.5	2394.9	2446.2	2496.6	2547.0	2726.1	2835.7	2851.3
7.5°	2098.5	2146.3	2195.0	2242.8	2340.2	2436.6	2534.0	2630.5	2777.4	2891.3	2955.6
10°	1850.7	1905.5	1959.4	2014.2	2123.7	2234.1	2343.6	2453.2	2618.3	2775.7	2856.5
12.5°	1856.0	1942.0	2028.1	2114.1	2209.8	2305.4	2400.1	2495.8	2596.6	2649.6	2763.5
15°	2000.3	2068.1	2135.9	2203.7	2328.8	2454.0	2578.3	2703.5	2763.5	2891.3	3024.3
17.5°	2053.3	2186.3	2318.4	2450.6	2607.0	2762.6	2919.1	3074.7	3187.7	3365.1	3502.4
20°	1955.1	2154.1	2352.3	2551.4	2766.1	2980.8	3195.5	3410.3	3533.7	3702.3	3914.4
22.5°	1959.4	2170.6	2381.0	2592.2	2888.7	3184.2	3480.7	3776.2	4107.4	4432.6	4536.0
25°	1989.8	2266.3	2541.8	2818.3	3160.8	3503.3	3845.8	4188.3	4588.2	4929.8	5067.1
27.5°	2000.3	2311.5	2621.8	2933.0	3419.8	3906.6	4393.4	4880.2	5357.5	5743.5	5890.4
30°	1975.0	2355.8	2735.7	3115.6	3712.8	4310.0	4907.2	5504.4	5957.3	6406.7	6589.3
32.5°	1981.1	2466.2	2951.3	3436.3	4139.6	4843.7	5547.0	6250.3	6539.7	6944.8	7266.5
35°	2022.9	2554.9	3086.0	3618.0	4396.0	5174.1	5952.1	6730.1	7204.7	7632.4	7905.4
37.5°	2120.2	2709.6	3298.1	3887.5	4843.7	5800.8	6757.1	7713.3	8447.8	9182.4	9307.6
40°	2192.4	2814.8	3437.2	4059.6	5169.7	6279.8	7389.9	8500.0	9331.0	10128.2	10213.4
42.5°	2274.1	2955.6	3638.0	4319.5	5560.9	6802.3	8043.6	9285.0	10247.3	11060.1	11116.6
45°	2363.6	3065.1	3765.8	4466.5	5766.9	7066.5	8367.0	9666.6	10790.6	11734.7	11521.7
47.5°	2406.2	3156.4	3906.6	4656.8	6051.2	7444.7	8839.0	10232.5	11240.9	12073.7	11825.1
50°	2439.3	3264.2	4090.0	4915.0	6377.2	7839.3	9301.5	10763.7	11774.6	12543.1	12153.7
52.5°	2532.3	3454.6	4377.8	5300.1	6855.3	8409.6	9964.8	11519.1	12497.0	13202.9	12657.0
55°	2622.7	3685.0	4748.1	5810.4	7482.9	9156.3	10828.8	12501.4	13475.0	14080.0	13338.5
57.5°	2736.6	3908.4	5079.3	6250.3	8039.3	9828.3	11616.4	13405.4	14357.3	15025.8	14255.6
60°	2707.0	3958.8	5211.4	6463.2	8285.3	10107.3	11929.4	13751.4	14882.4	15703.9	15181.4
62.5°	2592.2	3833.6	5074.1	6315.5	8105.3	9894.4	11684.2	13473.3	14828.5	15941.2	15765.6
65°	2360.1	3513.7	4668.1	5821.7	7530.7	9240.6	10949.7	12658.7	14331.3	15747.3	15809.9
67.5°	2055.0	3028.6	4001.4	4975.0	6569.3	8163.6	9757.0	11351.3	13325.5	14977.1	15163.2
70°	1731.6	2462.7	3194.7	3925.8	5328.8	6731.8	8134.0	9537.1	11589.5	13251.6	13602.8
72.5°	1388.3	1858.6	2328.0	2797.4	3810.1	4822.0	5834.7	6846.6	8652.1	9942.2	10555.0
75°	899.7	1113.6	1327.4	1541.3	2215.8	2889.5	3564.1	4237.8	5436.6	6386.7	7079.6
77.5°	400.7	444.2	486.8	530.3	1051.0	1571.7	2092.4	2613.1	3133.8	3707.6	3870.1
80°	143.4	162.6	182.6	201.7	457.3	713.7	969.3	1224.8	1476.9	1773.4	1845.5
82.5°	60.0	60.0	59.1	58.2	149.5	240.8	332.1	423.3	489.4	562.4	576.3
85°	24.3	18.3	11.3	4.3	19.1	34.8	49.5	64.3	103.4	93.9	173.9
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: P368701  
 CATALOG NUMBER: MSA-SA4D-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: P368701

CATALOG NUMBER: MSA-SA4D-830-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7
2.5°	2328.0	2326.2	2324.5	2322.8	2321.0	2289.7	2259.3	2228.0	2197.6	2235.8	2274.1
5°	2826.1	2871.3	2916.5	2962.6	3007.8	3020.8	3033.9	3046.9	3059.9	3087.7	3115.6
7.5°	3009.5	3086.0	3161.6	3238.1	3313.8	3384.2	3453.7	3524.1	3594.5	3577.2	3559.8
10°	2946.1	3084.3	3222.5	3361.6	3499.8	3530.2	3560.6	3591.9	3622.4	3701.5	3780.6
12.5°	2877.4	3043.4	3209.4	3375.5	3541.5	3633.7	3724.9	3817.1	3909.2	3989.2	4069.2
15°	3203.4	3309.4	3415.5	3522.4	3628.5	3709.3	3789.3	3870.1	3950.1	4005.7	4060.5
17.5°	3631.9	3684.1	3736.2	3789.3	3841.4	3904.9	3968.3	4031.8	4095.3	4128.3	4161.3
20°	4084.8	4107.4	4130.0	4152.6	4175.2	4124.8	4074.4	4024.0	3973.6	4004.9	4035.3
22.5°	4539.5	4547.3	4556.0	4563.8	4571.6	4454.3	4336.9	4219.6	4102.2	4052.7	4003.1
25°	5239.3	5181.9	5124.5	5067.1	5009.8	4870.7	4731.6	4592.5	4453.4	4330.8	4208.3
27.5°	5997.3	5802.6	5608.7	5414.0	5220.1	5081.0	4942.0	4802.9	4663.8	4479.5	4295.2
30°	6761.4	6447.6	6134.6	5820.8	5507.9	5342.7	5177.5	5011.5	4846.3	4662.0	4478.6
32.5°	7462.1	7084.8	6707.5	6329.4	5952.1	5673.9	5395.7	5117.6	4839.4	4710.7	4582.1
35°	8042.7	7596.8	7150.8	6704.0	6258.1	5982.5	5706.9	5431.4	5155.8	4964.6	4774.2
37.5°	9035.5	8533.9	8032.3	7530.7	7029.1	6652.7	6277.2	5900.8	5524.4	5396.6	5268.8
40°	9950.9	9318.9	8686.9	8054.9	7422.9	7107.4	6792.7	6477.1	6162.5	5953.0	5744.3
42.5°	10678.5	10012.6	9347.6	8681.7	8015.8	7703.7	7392.5	7080.4	6768.4	6628.4	6489.3
45°	10835.8	10208.2	9581.4	8953.8	8326.1	8144.5	7963.6	7782.0	7601.1	7504.7	7409.0
47.5°	11146.1	10465.5	9785.7	9105.0	8424.4	8342.7	8260.9	8178.4	8096.6	8142.7	8188.8
50°	11320.0	10625.4	9930.9	9236.3	8541.7	8565.2	8587.8	8611.3	8634.7	8961.6	9287.6
52.5°	11657.3	10955.8	10254.2	9552.7	8851.2	8999.0	9145.9	9293.7	9440.6	9890.9	10340.3
55°	12259.7	11570.4	10881.0	10190.8	9501.4	9696.2	9890.9	10086.5	10281.2	10759.3	11236.5
57.5°	13152.5	12468.3	11785.1	11100.9	10417.7	10611.5	10805.4	10999.2	11193.1	11625.1	12056.3
60°	14276.5	13574.1	12872.6	12170.2	11468.7	11541.7	11613.8	11686.8	11759.9	12224.1	12687.4
62.5°	15151.9	14506.0	13861.0	13215.1	12570.1	12489.2	12409.2	12328.4	12248.4	12601.3	12953.4
65°	15355.3	14900.6	14446.9	13992.2	13537.6	13289.0	13041.2	12792.6	12544.0	12686.5	12829.1
67.5°	14772.9	14466.0	14160.0	13853.1	13546.3	13027.3	12508.3	11988.5	11469.5	11393.9	11318.3
70°	13421.1	13253.3	13086.4	12918.6	12751.7	11952.0	11153.1	10353.3	9554.5	9362.3	9170.2
72.5°	10590.7	10695.0	10799.3	10904.5	11008.8	10152.5	9297.1	8440.9	7584.6	7341.2	7098.7
75°	7468.1	7821.9	8175.7	8529.6	8883.4	8102.7	7323.0	6542.3	5761.7	5527.9	5294.9
77.5°	4049.2	4712.5	5375.7	6039.0	6702.3	6058.1	5414.9	4770.7	4126.6	3964.0	3802.3
80°	1919.4	2301.9	2683.5	3066.0	3448.5	3303.3	3158.2	3012.1	2866.9	2902.6	2938.2
82.5°	588.5	865.0	1141.4	1417.8	1694.3	1716.0	1736.9	1758.6	1780.3	1834.2	1887.2
85°	197.3	270.4	343.4	416.4	489.4	618.1	746.7	876.3	1004.9	921.5	838.9
87.5°	0.0	2.6	4.3	7.0	8.7	26.9	45.2	63.5	81.7	70.4	60.0
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: P368701  
 CATALOG NUMBER: MSA-SA4D-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: P368701

CATALOG NUMBER: MSA-SA4D-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°	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7
2.5°	2313.2	2351.5	2352.3	2354.1	2354.9	2355.8	2360.1	2364.5	2369.7	2374.1	2345.4
5°	3144.3	3172.1	3120.8	3069.5	3017.3	2966.0	3012.1	3058.2	3104.3	3150.3	3130.3
7.5°	3541.5	3524.1	3518.0	3512.8	3506.7	3501.5	3518.9	3536.3	3553.7	3571.1	3569.3
10°	3859.7	3938.8	3957.9	3977.0	3997.0	4016.2	3976.2	3936.2	3896.2	3856.2	3839.7
12.5°	4149.2	4229.1	4292.6	4356.1	4420.4	4483.8	4426.5	4370.0	4312.6	4256.1	4202.2
15°	4116.1	4170.9	4223.1	4275.2	4327.4	4379.5	4360.4	4342.1	4323.0	4303.9	4295.2
17.5°	4195.2	4228.3	4216.1	4203.9	4190.9	4178.7	4172.6	4167.4	4161.3	4155.2	4134.4
20°	4066.6	4097.9	4090.0	4083.1	4075.3	4067.4	4062.2	4057.0	4051.8	4046.6	4030.1
22.5°	3953.6	3904.0	3891.0	3878.8	3865.8	3853.6	3855.3	3857.1	3857.9	3859.7	3934.4
25°	4085.7	3963.1	3915.3	3867.5	3818.8	3771.0	3792.7	3813.6	3835.3	3857.1	3964.9
27.5°	4110.0	3925.8	3849.3	3772.8	3696.3	3619.8	3698.0	3776.2	3854.5	3932.7	4107.4
30°	4294.3	4110.9	4004.0	3897.9	3791.0	3685.0	3784.9	3884.9	3984.9	4084.8	4274.3
32.5°	4452.5	4323.9	4247.4	4170.9	4094.4	4017.9	4022.2	4025.7	4030.1	4034.4	4301.3
35°	4582.9	4392.6	4323.0	4254.3	4184.8	4116.1	4219.6	4323.0	4426.5	4529.9	4769.8
37.5°	5141.0	5013.2	4885.5	4758.5	4630.8	4503.8	4586.4	4669.0	4752.5	4835.0	5100.2
40°	5534.8	5326.2	5293.2	5261.0	5228.0	5195.8	5238.4	5280.1	5322.7	5365.3	5597.4
42.5°	6349.4	6209.4	6119.9	6031.2	5941.7	5853.0	5886.9	5920.8	5955.6	5989.5	6209.4
45°	7312.5	7216.0	7156.9	7097.8	7037.8	6978.7	6927.4	6877.0	6825.7	6775.3	6998.7
47.5°	8234.9	8280.9	8411.3	8540.9	8671.2	8800.8	8694.7	8588.7	8481.7	8375.7	8376.6
50°	9614.4	9940.4	10006.5	10071.7	10137.8	10203.0	9976.9	9750.9	9524.0	9298.0	9271.1
52.5°	10790.6	11240.0	11263.5	11287.0	11311.3	11334.8	11243.5	11152.2	11060.1	10968.8	10726.3
55°	11714.7	12191.9	12224.1	12255.4	12287.5	12318.8	12238.8	12159.7	12079.8	11999.8	11754.7
57.5°	12488.3	12919.5	12938.6	12956.9	12976.0	12995.1	13001.2	13007.3	13014.3	13020.3	12689.1
60°	13151.6	13615.8	13577.6	13540.2	13501.9	13464.6	13407.2	13349.8	13292.4	13235.1	13021.2
62.5°	13306.3	13659.3	13600.2	13541.9	13482.8	13424.6	13375.9	13328.1	13279.4	13230.7	13094.2
65°	12971.7	13114.2	13053.4	12992.5	12930.8	12870.0	12838.7	12808.2	12776.9	12745.7	12728.3
67.5°	11241.8	11166.1	11238.3	11310.4	11382.6	11454.7	11553.0	11651.2	11750.3	11848.5	11791.2
70°	8977.2	8785.1	8865.1	8944.2	9024.2	9103.3	9251.9	9400.6	9550.1	9698.8	9658.8
72.5°	6855.3	6611.9	6623.2	6634.5	6646.7	6658.0	6653.6	6650.1	6645.8	6641.4	6711.0
75°	5061.1	4827.2	4716.8	4606.4	4496.0	4385.6	4358.7	4331.7	4304.8	4277.8	4407.3
77.5°	3639.8	3478.1	3402.4	3327.7	3252.0	3177.3	3215.5	3253.8	3292.9	3331.2	3376.4
80°	2974.7	3010.4	2952.1	2894.8	2836.5	2778.3	2821.7	2864.3	2907.8	2951.3	2816.5
82.5°	1941.1	1994.2	1815.1	1636.0	1456.9	1277.9	1386.5	1495.2	1604.7	1713.4	1657.8
85°	755.4	672.8	573.7	475.5	376.4	277.3	360.8	444.2	527.7	611.1	666.8
87.5°	48.7	38.2	30.4	22.6	13.9	6.1	13.0	20.0	27.8	34.8	58.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P368701  
 CATALOG NUMBER: MSA-SA4D-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: P368701

CATALOG NUMBER: MSA-SA4D-830-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7
2.5°	2317.5	2288.9	2261.0	2206.3	2151.5	2096.7	2042.0	2118.5	2195.0	2271.5	2348.0
5°	3111.2	3091.2	3072.1	3077.3	3082.5	3088.6	3093.8	3105.1	3116.4	3126.9	3138.2
7.5°	3568.5	3566.7	3565.0	3525.0	3485.0	3444.2	3404.2	3424.2	3444.2	3464.2	3484.1
10°	3824.0	3807.5	3791.0	3703.2	3615.4	3526.7	3438.9	3400.7	3361.6	3323.3	3285.1
12.5°	4148.3	4093.5	4039.6	3945.7	3852.7	3758.8	3665.0	3630.2	3594.5	3559.8	3524.1
15°	4287.4	4278.7	4270.9	4203.9	4136.1	4069.2	4001.4	3882.3	3762.3	3643.2	3524.1
17.5°	4113.5	4091.8	4070.9	4177.0	4282.2	4388.2	4494.3	4370.8	4247.4	4124.0	4000.5
20°	4013.5	3997.0	3980.5	4177.8	4374.3	4571.6	4768.1	4713.3	4657.7	4602.9	4548.2
22.5°	4009.2	4084.8	4159.6	4332.6	4504.7	4677.7	4849.8	4944.6	5040.2	5134.9	5229.7
25°	4072.7	4181.3	4289.1	4576.0	4862.9	5150.6	5437.5	5546.1	5653.9	5762.6	5870.4
27.5°	4281.3	4456.0	4629.9	4880.2	5130.6	5381.8	5632.2	5869.5	6107.7	6345.0	6582.3
30°	4463.0	4652.5	4842.0	5140.2	5437.5	5735.6	6032.9	6330.2	6627.5	6924.8	7222.1
32.5°	4568.2	4835.9	5102.8	5465.3	5826.9	6189.4	6551.9	6877.9	7203.9	7529.0	7855.0
35°	5009.8	5250.6	5490.5	5891.2	6292.0	6693.6	7094.3	7497.7	7901.1	8303.5	8706.9
37.5°	5365.3	5631.3	5896.4	6334.6	6771.8	7210.0	7648.1	8205.3	8763.4	9320.6	9877.8
40°	5829.5	6061.6	6293.7	6704.0	7113.5	7523.8	7934.1	8640.8	9347.6	10053.4	10760.2
42.5°	6428.5	6648.4	6868.3	7307.3	7746.3	8185.3	8624.3	9406.7	10189.0	10970.5	11752.9
45°	7222.1	7446.4	7669.8	8019.3	8368.7	8718.2	9067.6	9899.6	10730.6	11562.5	12393.6
47.5°	8377.4	8378.3	8379.2	8631.3	8883.4	9136.3	9388.4	10226.4	11063.6	11901.6	12738.7
50°	9244.1	9216.3	9189.4	9319.7	9449.3	9579.7	9710.1	10481.1	11253.1	12024.1	12795.2
52.5°	10484.6	10242.1	10000.4	10077.8	10154.3	10231.6	10308.1	10961.0	11614.7	12267.5	12920.4
55°	11510.4	11265.2	11020.1	10991.4	10962.7	10934.0	10905.3	11506.0	12106.7	12707.4	13308.1
57.5°	12358.8	12027.6	11697.3	11631.2	11566.0	11499.9	11433.9	12067.6	12700.4	13334.2	13967.0
60°	12808.2	12594.4	12380.5	12337.9	12294.5	12251.9	12208.4	12728.3	13248.1	13767.9	14287.8
62.5°	12958.6	12822.1	12686.5	12766.5	12846.5	12927.3	13007.3	13235.9	13463.7	13692.3	13920.1
65°	12711.7	12694.4	12677.0	12841.3	13004.7	13169.0	13333.3	13276.8	13219.4	13162.9	13106.4
67.5°	11734.7	11677.3	11620.8	11981.5	12341.4	12702.2	13062.9	12789.1	12514.4	12240.6	11966.8
70°	9618.8	9577.9	9537.9	10057.8	10577.6	11098.3	11618.2	11286.1	10954.0	10622.0	10289.9
72.5°	6779.7	6849.2	6918.7	7531.6	8143.6	8756.4	9368.4	9033.7	8699.1	8364.4	8029.7
75°	4536.0	4665.5	4795.0	5426.2	6057.3	6689.2	7320.4	6927.4	6534.5	6141.6	5748.7
77.5°	3421.6	3466.8	3512.0	3911.0	4310.0	4709.9	5108.9	4784.6	4459.5	4135.3	3810.1
80°	2681.8	2546.2	2411.4	2542.7	2674.0	2805.2	2936.5	2742.6	2548.8	2355.8	2161.9
82.5°	1602.1	1546.5	1490.8	1562.1	1632.5	1703.8	1775.1	1691.7	1607.3	1523.9	1439.6
85°	721.5	777.2	831.9	904.1	975.4	1047.5	1119.7	1003.2	886.7	770.2	653.7
87.5°	80.8	104.3	127.8	158.2	188.6	219.1	249.5	194.7	139.1	84.3	29.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P368701  
 CATALOG NUMBER: MSA-SA4D-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: P368701  
CATALOG NUMBER: MSA-SA4D-830-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	357.5°	360°
0°	1837.7	1837.7
2.5°	2392.3	2436.6
5°	3137.3	3135.6
7.5°	3432.0	3379.0
10°	3236.4	3187.7
12.5°	3399.8	3275.5
15°	3430.3	3336.4
17.5°	3847.5	3693.6
20°	4350.8	4152.6
22.5°	4958.5	4686.4
25°	5547.0	5223.6
27.5°	6388.5	6193.7
30°	7025.7	6828.3
32.5°	7721.1	7587.2
35°	8573.9	8440.0
37.5°	9912.6	9946.5
40°	10781.0	10801.9
42.5°	11833.8	11914.6
45°	12484.0	12574.4
47.5°	12864.7	12990.8
50°	12998.6	13202.0
52.5°	13171.6	13422.0
55°	13587.1	13866.2
57.5°	14189.6	14412.1
60°	14298.2	14308.6
62.5°	13759.3	13598.4
65°	12935.2	12763.9
67.5°	11863.3	11759.0
70°	10152.5	10015.2
72.5°	7774.1	7518.6
75°	5432.2	5115.8
77.5°	3644.1	3478.1
80°	2167.2	2171.5
82.5°	1479.5	1518.7
85°	645.9	637.2
87.5°	20.9	11.3
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: P368701  
CATALOG NUMBER: MSA-SA4D-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)