

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: P565309

Luminaire Tested: **MSA-SA3B-730-U-T1**

Issue Date: 8/19/2021

Test Information

Test Method: LM-79-08
Report Number: P565309
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-334-1)
Test Lab: INNOVATIONS CENTER
Issue Date: 8/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA3B-730-U-T1
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS.
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12104 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B3 - U0 - G3

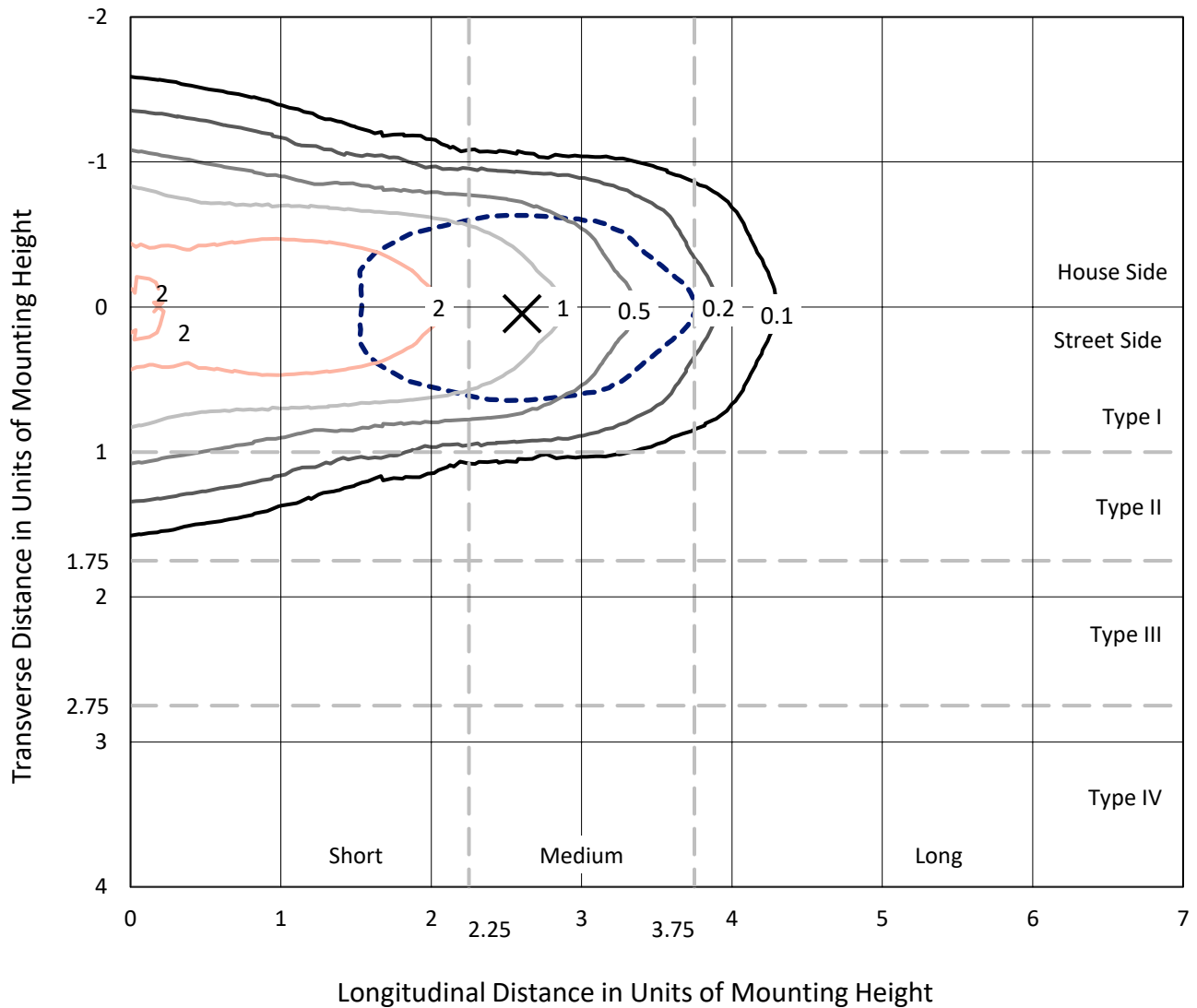
Input Watts (W): 126
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P565309
 CATALOG NUMBER: MSA-SA3B-730-U-T1

Iso-Footcandle Lines of Horizontal Illumination

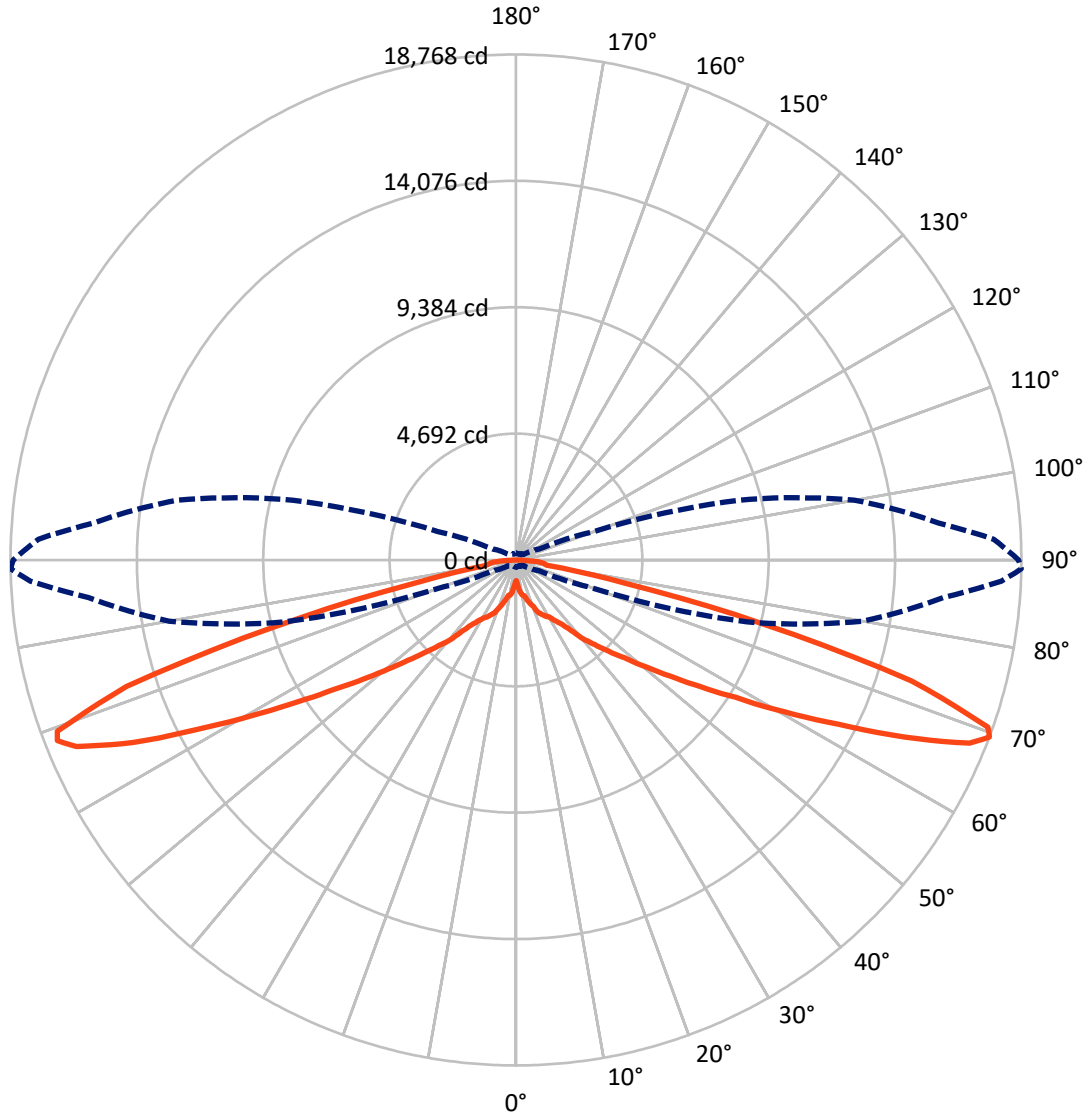
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type I - Medium - N/A

REPORT NUMBER: P565309
CATALOG NUMBER: MSA-SA3B-730-U-T1

Luminous Intensity Polar Plot



— Vertical Plane Through 89-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P565309
 CATALOG NUMBER: MSA-SA3B-730-U-T1

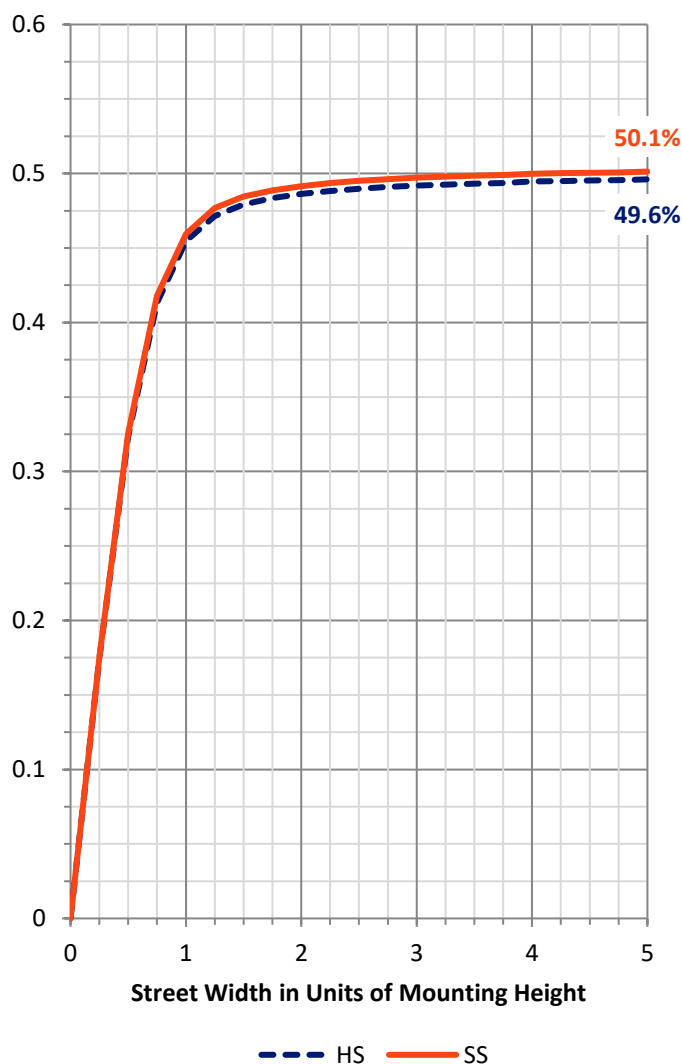
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6051.9	0.0	6051.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6052.1	0.0	6052.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	12104.0	0.0	12104.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.3	0.8
10°-20°	443.8	3.7
20°-30°	885.5	7.3
30°-40°	1339.3	11.1
40°-50°	1944.0	16.1
50°-60°	2554.1	21.1
60°-70°	3115.6	25.7
70°-80°	1575.2	13.0
80°-90°	150.1	1.2
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°	12104.0	100.0
0°-180°	12104.0	100.0

Coefficient of Utilization



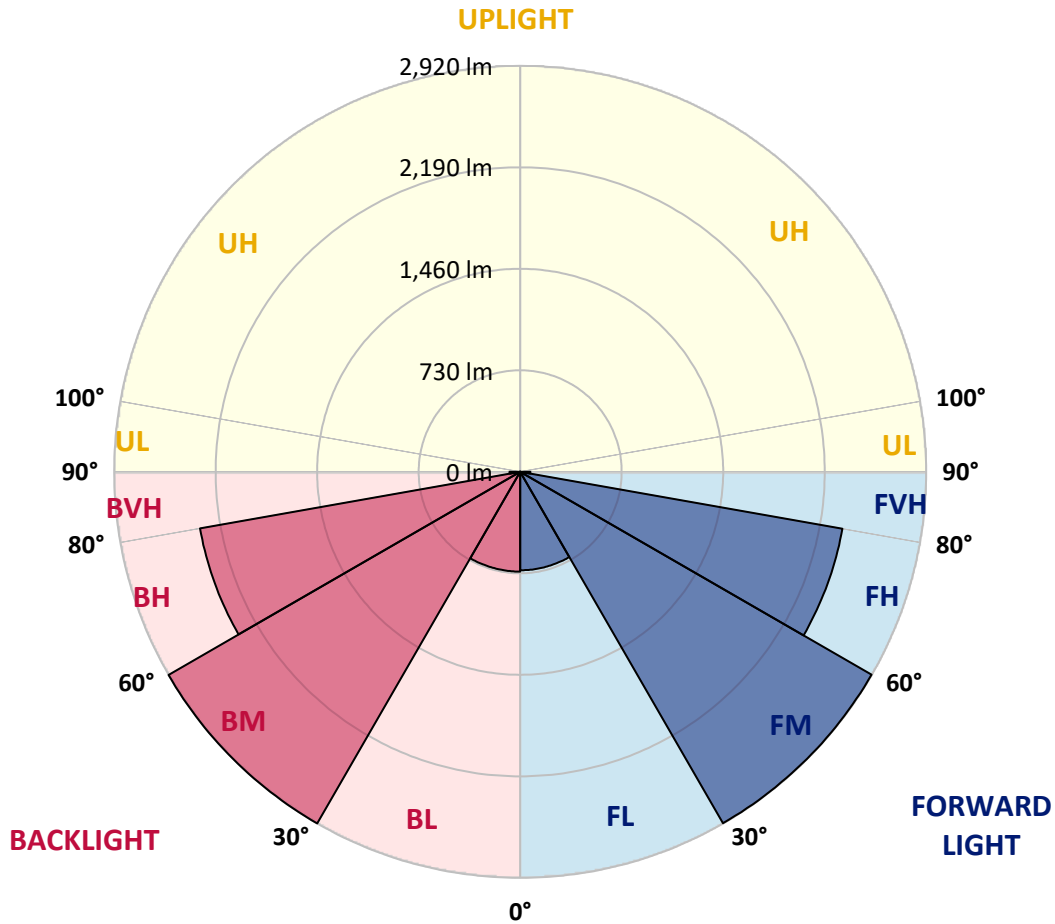
REPORT NUMBER: P565309
 CATALOG NUMBER: MSA-SA3B-730-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	707.9	5.8			
FM (30°-60°)	2917.7	24.1			
FH (60°-80°)	2352.9	19.4			G2/5000
FVH (80°-90°)	73.6	0.6			G1/100
BL (0°-30°)	717.8	5.9	B2/1000		
BM (30°-60°)	2919.7	24.1	B3/5000		
BH (60°-80°)	2337.9	19.3	B3/2500		G3/2500
BVH (80°-90°)	76.5	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Medium





REPORT NUMBER: P565309

CATALOG NUMBER: MSA-SA3B-730-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
0°	766.7	766.7	766.7	766.7	766.7	766.7	766.7	766.7	766.7	766.7	766.7
2.5°	899.7	796.0	787.0	762.2	780.2	787.0	771.2	748.6	773.4	787.0	762.2
5°	1134.2	980.9	929.0	886.2	800.5	764.4	800.5	892.9	904.2	960.6	944.8
7.5°	1249.2	1224.4	1159.0	1017.0	879.4	802.7	899.7	1032.7	1100.4	1154.5	1210.9
10°	1334.9	1321.4	1206.4	1104.9	1048.5	1053.0	1055.3	1098.1	1156.8	1247.0	1278.5
12.5°	1355.2	1350.7	1368.7	1346.2	1350.7	1375.5	1350.7	1339.4	1373.2	1402.5	1371.0
15°	1486.0	1483.7	1490.5	1495.0	1585.2	1623.5	1585.2	1551.4	1526.6	1501.8	1553.6
17.5°	1576.2	1564.9	1567.2	1610.0	1711.5	1817.5	1797.2	1752.1	1695.7	1729.5	1772.4
20°	1625.8	1605.5	1619.0	1637.1	1808.4	1925.7	1939.2	1878.3	1844.5	1887.4	1923.4
22.5°	1673.1	1641.6	1594.2	1612.3	1770.1	1939.2	2004.6	1988.8	2013.6	2027.2	2020.4
25°	1616.8	1637.1	1585.2	1637.1	1797.2	1952.7	2083.5	2176.0	2178.2	2171.5	2221.1
27.5°	1582.9	1567.2	1479.2	1612.3	1745.3	1842.3	2176.0	2331.6	2378.9	2234.6	2331.6
30°	1524.3	1549.1	1429.6	1540.1	1709.2	1871.6	2282.0	2505.2	2435.3	2417.3	2439.8
32.5°	1488.2	1472.5	1416.1	1477.0	1605.5	1959.5	2349.6	2606.7	2694.6	2651.8	2647.3
35°	1429.6	1440.9	1352.9	1418.3	1598.7	1885.1	2394.7	2861.5	2996.8	2962.9	2935.9
37.5°	1438.6	1400.3	1337.2	1384.5	1555.9	1925.7	2507.5	3107.3	3321.5	3339.5	3215.5
40°	1371.0	1348.4	1253.7	1332.6	1474.7	1900.9	2534.5	3386.9	3749.9	3831.1	3652.9
42.5°	1274.0	1244.7	1190.6	1278.5	1427.4	1779.1	2572.8	3722.8	4185.1	4354.2	4191.9
45°	1134.2	1095.9	1068.8	1186.1	1323.6	1747.5	2532.3	4002.5	4602.3	4834.5	4830.0
47.5°	965.1	940.3	926.8	1050.8	1237.9	1668.6	2448.8	4178.3	4893.1	5488.4	5398.2
50°	773.4	755.4	753.1	883.9	1093.6	1506.3	2354.1	4266.3	5335.1	6088.2	6167.2
52.5°	620.1	606.6	604.3	710.3	915.5	1287.5	2155.7	4333.9	5756.8	6769.2	7175.1
55°	484.8	471.3	473.5	561.5	728.3	1053.0	1853.5	4257.3	6126.6	7466.0	8234.9
57.5°	396.9	383.3	385.6	435.2	557.0	805.0	1477.0	4090.4	6293.4	8327.4	9470.6
60°	349.5	336.0	329.2	351.8	428.4	606.6	1098.1	3441.0	6320.5	9042.2	10812.3
62.5°	324.7	311.2	304.4	311.2	354.0	464.5	791.5	2726.2	6164.9	9653.2	12041.2
65°	302.2	290.9	281.9	288.6	311.2	369.8	577.3	1867.1	5350.9	9932.8	12934.1
67.5°	277.4	268.3	259.3	268.3	284.1	311.2	448.7	1181.6	4011.5	9569.8	13306.2
69°	263.8	250.3	245.8	252.5	268.3	286.4	387.8	942.5	3050.9	8879.8	13080.7
70°	250.3	241.3	234.5	245.8	259.3	272.8	349.5	800.5	2392.5	7993.6	12521.5
72.5°	221.0	214.2	209.7	221.0	232.3	241.3	286.4	570.5	1386.8	5443.3	9930.6
75°	193.9	187.2	184.9	193.9	202.9	207.5	241.3	392.4	818.5	2847.9	5957.5
77.5°	162.4	153.3	155.6	166.9	173.6	175.9	202.9	281.9	482.5	1289.8	2760.0
80°	119.5	119.5	128.5	137.5	137.5	137.5	162.4	205.2	293.1	593.0	1145.5
82.5°	83.4	85.7	87.9	101.5	103.7	94.7	124.0	148.8	182.6	259.3	396.9
85°	47.4	49.6	51.9	60.9	63.1	56.4	81.2	94.7	106.0	128.5	207.5
87.5°	18.0	20.3	27.1	31.6	33.8	24.8	38.3	45.1	45.1	54.1	92.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P565309

CATALOG NUMBER: MSA-SA3B-730-U-T1

CANDELA DISTRIBUTION (continued):

	85°	87.5°	89°	90°	92.5°	95°	100°	105°	110°	115°	125°
0°	766.7	766.7	766.7	766.7	766.7	766.7	766.7	766.7	766.7	766.7	766.7
2.5°	814.0	829.8	859.1	865.9	841.1	814.0	753.1	791.5	807.3	777.9	787.0
5°	1007.9	1041.8	1077.8	1035.0	1007.9	989.9	960.6	962.8	947.1	895.2	809.5
7.5°	1226.7	1188.3	1215.4	1244.7	1201.9	1204.1	1231.2	1174.8	1132.0	1044.0	883.9
10°	1328.1	1328.1	1334.9	1334.9	1316.9	1316.9	1314.6	1224.4	1172.5	1134.2	1089.1
12.5°	1334.9	1332.6	1359.7	1339.4	1343.9	1348.4	1359.7	1400.3	1386.8	1337.2	1377.7
15°	1522.1	1513.0	1522.1	1519.8	1526.6	1546.9	1537.8	1528.8	1531.1	1567.2	1628.0
17.5°	1697.9	1702.5	1693.4	1709.2	1709.2	1722.7	1754.3	1722.7	1695.7	1763.3	1810.7
20°	1900.9	1885.1	1849.0	1876.1	1882.8	1885.1	1937.0	1898.6	1860.3	1885.1	1941.5
22.5°	2106.1	2103.8	2108.3	2110.6	2119.6	2085.8	2015.9	2004.6	2029.4	1995.6	2002.4
25°	2232.4	2234.6	2245.9	2248.1	2209.8	2245.9	2270.7	2196.3	2196.3	2189.5	2144.4
27.5°	2385.7	2351.9	2365.4	2383.4	2367.6	2376.7	2347.4	2239.1	2354.1	2369.9	2189.5
30°	2489.4	2473.6	2457.8	2475.9	2491.7	2532.3	2448.8	2437.6	2446.6	2530.0	2293.2
32.5°	2708.1	2730.7	2701.4	2672.1	2701.4	2692.4	2656.3	2640.5	2753.2	2642.7	2365.4
35°	2911.1	2920.1	2922.4	2917.8	2935.9	2904.3	2904.3	2962.9	2996.8	2877.3	2387.9
37.5°	3400.4	3368.8	3303.4	3271.9	3328.2	3375.6	3235.8	3305.7	3292.2	3089.2	2557.1
40°	3752.2	3824.3	3844.6	3835.6	3844.6	3709.3	3738.6	3790.5	3729.6	3393.6	2498.4
42.5°	4266.3	4311.4	4295.6	4275.3	4284.3	4259.5	4171.6	4363.2	4144.5	3734.1	2588.6
45°	4735.3	4836.8	4843.5	4773.6	4830.0	4742.1	4778.1	4845.8	4624.8	3988.9	2563.8
47.5°	5294.5	5504.2	5425.3	5425.3	5481.7	5292.3	5377.9	5468.1	4881.9	4160.3	2428.5
50°	6122.1	6234.8	6230.3	6210.0	6234.8	6133.3	6119.8	6108.5	5276.5	4322.6	2345.1
52.5°	7057.8	7211.2	7152.6	7175.1	7208.9	7017.3	7168.3	6755.7	5770.3	4383.5	2155.7
55°	8252.9	8358.9	8300.3	8185.3	8338.6	8216.9	8266.5	7461.5	6113.0	4209.9	1840.0
57.5°	9675.8	9729.9	9632.9	9621.7	9723.1	9592.4	9508.9	8255.2	6291.2	4079.1	1470.2
60°	11337.7	11506.8	11445.9	11348.9	11441.4	11326.4	10695.0	8929.4	6255.1	3468.0	1138.7
62.5°	13331.0	13502.4	13434.7	13369.3	13427.9	13128.0	11808.9	9461.6	6092.7	2748.7	832.1
65°	14977.1	15750.5	15852.0	15854.2	15570.1	14875.6	12697.4	9669.0	5235.9	1918.9	608.8
67.5°	16059.4	17667.2	18167.8	17987.4	17335.7	15750.5	13055.9	9263.1	4043.0	1213.1	455.5
69°	15935.4	18043.7	18767.6	18666.1	17750.6	15737.0	12776.3	8579.9	3089.2	965.1	385.6
70°	15362.7	17734.8	18593.9	18639.0	17486.8	15132.7	12277.9	7795.2	2498.4	823.0	354.0
72.5°	12259.9	14614.0	15369.4	15664.8	14521.6	12117.8	10068.1	5499.7	1447.6	575.0	286.4
75°	7594.5	8861.8	9488.6	9660.0	8967.7	7547.2	6110.8	3059.9	881.7	405.9	241.3
77.5°	3404.9	3772.5	4133.2	4133.2	3862.6	3445.5	2800.6	1479.2	500.6	288.6	202.9
80°	1141.0	1183.8	1152.3	1163.5	1118.4	1075.6	1125.2	638.1	308.9	216.5	164.6
82.5°	775.7	974.1	1035.0	1035.0	971.9	766.7	432.9	293.1	189.4	155.6	126.3
85°	631.4	771.2	827.5	852.4	802.7	647.2	227.7	142.1	112.7	99.2	85.7
87.5°	212.0	198.4	187.2	182.6	191.7	200.7	112.7	60.9	51.9	47.4	45.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P565309

CATALOG NUMBER: MSA-SA3B-730-U-T1

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	766.7	766.7	766.7	766.7	766.7	766.7
2.5°	802.7	775.7	787.0	798.2	879.4	940.3
5°	798.2	836.6	922.3	1030.5	1080.1	1201.9
7.5°	820.8	960.6	1120.7	1233.4	1278.5	1316.9
10°	1098.1	1122.9	1177.1	1285.3	1375.5	1391.3
12.5°	1418.3	1411.6	1373.2	1422.8	1377.7	1409.3
15°	1668.6	1594.2	1542.4	1535.6	1519.8	1519.8
17.5°	1806.2	1740.8	1668.6	1650.6	1603.2	1641.6
20°	1968.5	1855.8	1675.4	1657.4	1641.6	1605.5
22.5°	1937.0	1824.2	1637.1	1614.5	1697.9	1693.4
25°	1975.3	1824.2	1646.1	1621.3	1659.6	1659.6
27.5°	1880.6	1756.6	1628.0	1479.2	1596.5	1623.5
30°	1855.8	1716.0	1567.2	1434.1	1553.6	1528.8
32.5°	1986.6	1614.5	1467.9	1427.4	1515.3	1497.3
35°	1885.1	1596.5	1443.1	1368.7	1472.5	1454.4
37.5°	1927.9	1573.9	1400.3	1337.2	1420.6	1447.6
40°	1918.9	1467.9	1350.7	1269.5	1352.9	1366.5
42.5°	1767.8	1386.8	1267.3	1186.1	1228.9	1274.0
45°	1722.7	1337.2	1186.1	1073.3	1075.6	1127.5
47.5°	1639.3	1224.4	1037.3	933.5	933.5	976.4
50°	1499.5	1073.3	868.1	773.4	771.2	805.0
52.5°	1292.1	926.8	732.8	629.1	622.4	656.2
55°	1057.5	746.4	577.3	509.6	496.1	509.6
57.5°	823.0	581.8	455.5	401.4	399.1	410.4
60°	638.1	455.5	363.0	331.5	336.0	354.0
62.5°	482.5	363.0	308.9	297.6	304.4	322.5
65°	383.3	313.4	281.9	275.1	281.9	299.9
67.5°	311.2	284.1	261.6	252.5	257.1	275.1
69°	286.4	268.3	250.3	239.0	243.5	257.1
70°	272.8	259.3	241.3	230.0	234.5	248.0
72.5°	239.0	232.3	218.7	207.5	209.7	221.0
75°	209.7	205.2	196.2	182.6	182.6	196.2
77.5°	175.9	178.1	169.1	155.6	153.3	160.1
80°	139.8	144.3	139.8	126.3	121.8	121.8
82.5°	101.5	110.5	106.0	92.5	90.2	90.2
85°	63.1	69.9	67.6	58.6	58.6	51.9
87.5°	29.3	38.3	36.1	31.6	29.3	20.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)