

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: P565310

Luminaire Tested: **MSA-SA3C-730-U-T1**

Issue Date: 8/19/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P565310  
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-SA3C-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: 14991 lumens  
Efficiency: N/A  
Efficacy: 90.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Medium  
BUG Rating: B4 - U0 - G4

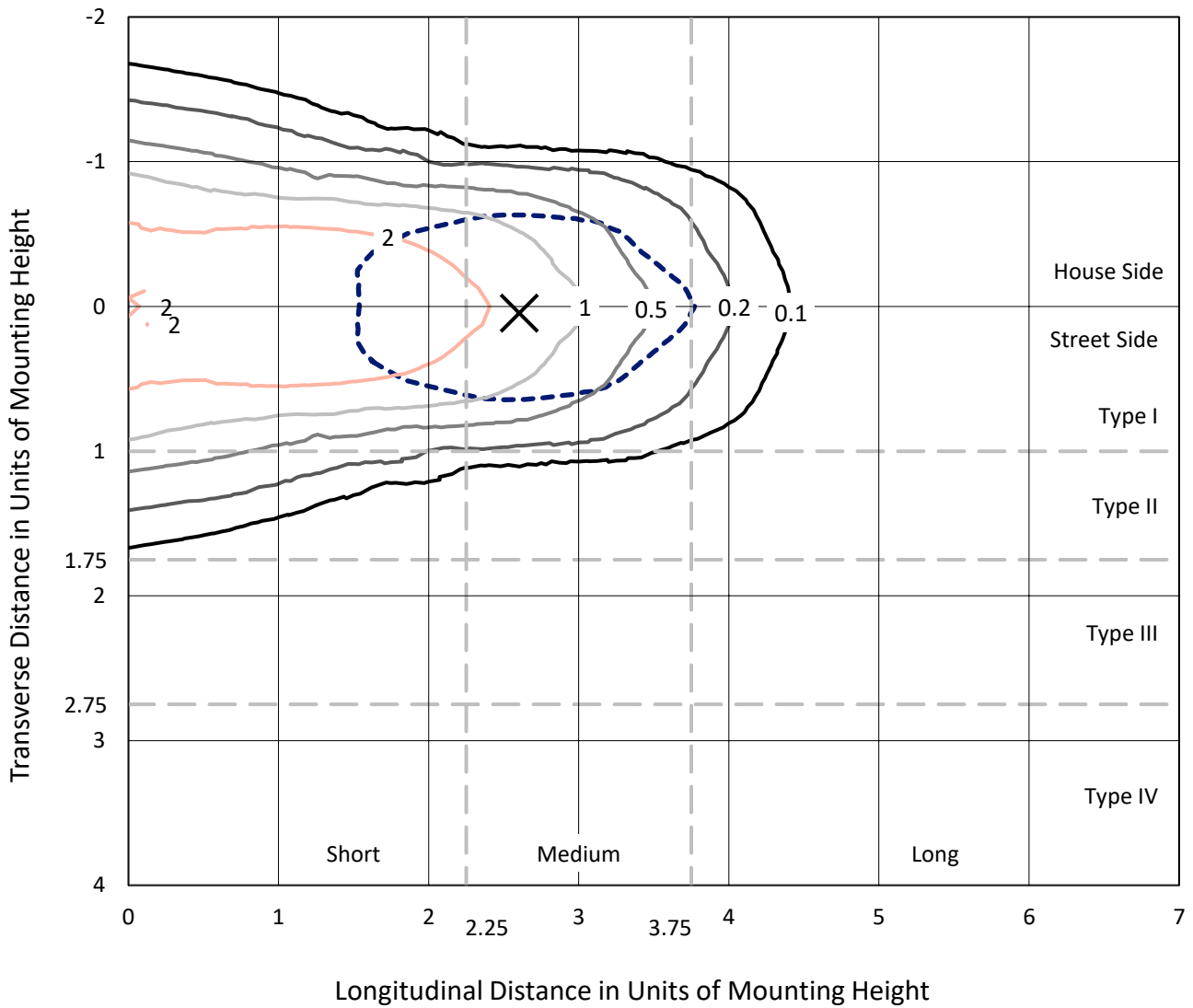
Input Watts (W): 166  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P565310  
 CATALOG NUMBER: MSA-SA3C-730-U-T1

### Iso-Footcandle Lines of Horizontal Illumination

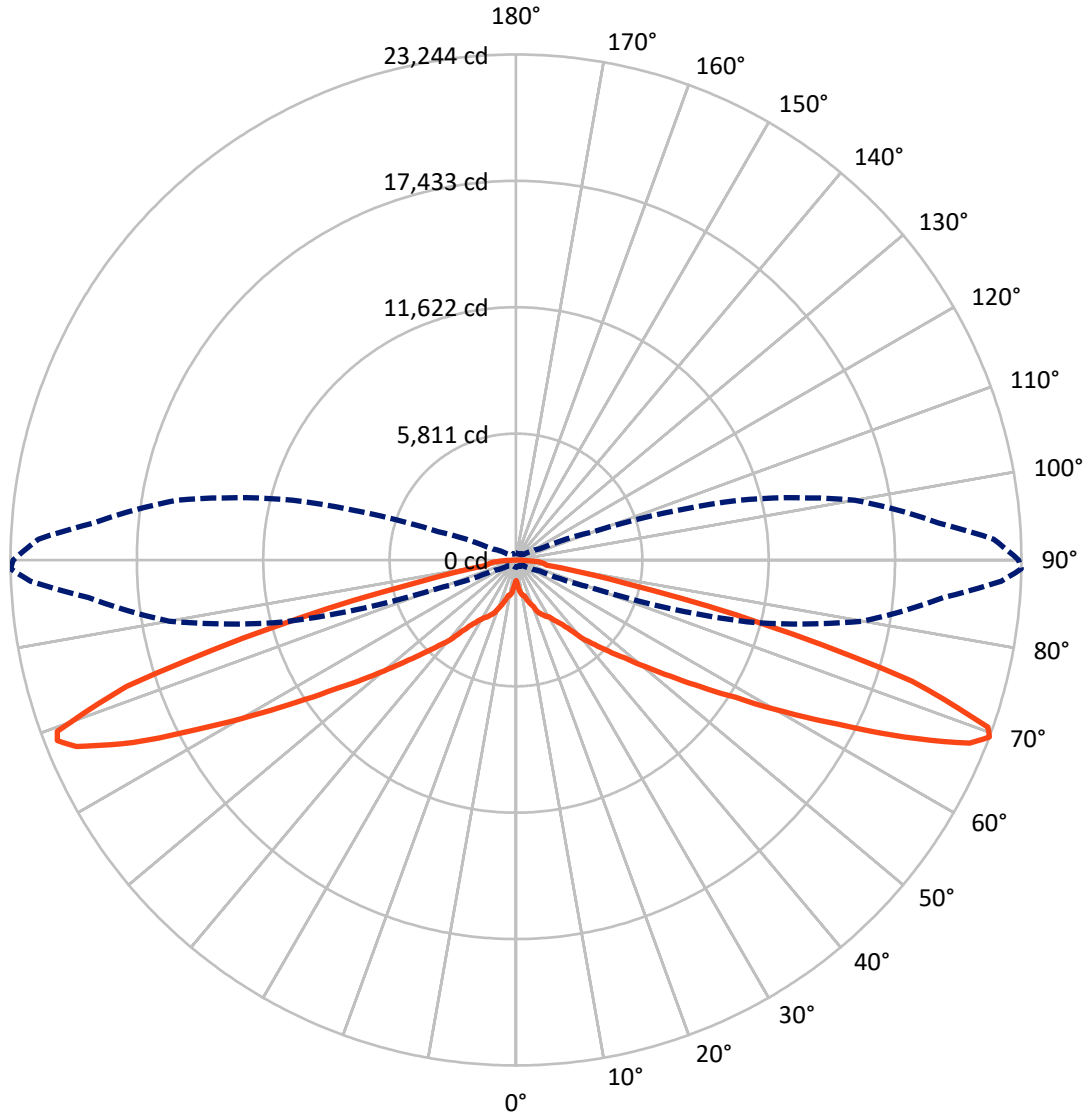
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
 Type I - Medium - N/A

REPORT NUMBER: P565310  
CATALOG NUMBER: MSA-SA3C-730-U-T1

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P565310  
 CATALOG NUMBER: MSA-SA3C-730-U-T1

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7495.3	0.0	7495.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7495.6	0.0	7495.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	14991.0	0.0	14991.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.3	0.8
10°-20°	549.7	3.7
20°-30°	1096.7	7.3
30°-40°	1658.7	11.1
40°-50°	2407.7	16.1
50°-60°	3163.3	21.1
60°-70°	3858.8	25.7
70°-80°	1950.9	13.0
80°-90°	186.0	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°	14991.0	100.0
0°-180°	14991.0	100.0

**Coefficient of Utilization**



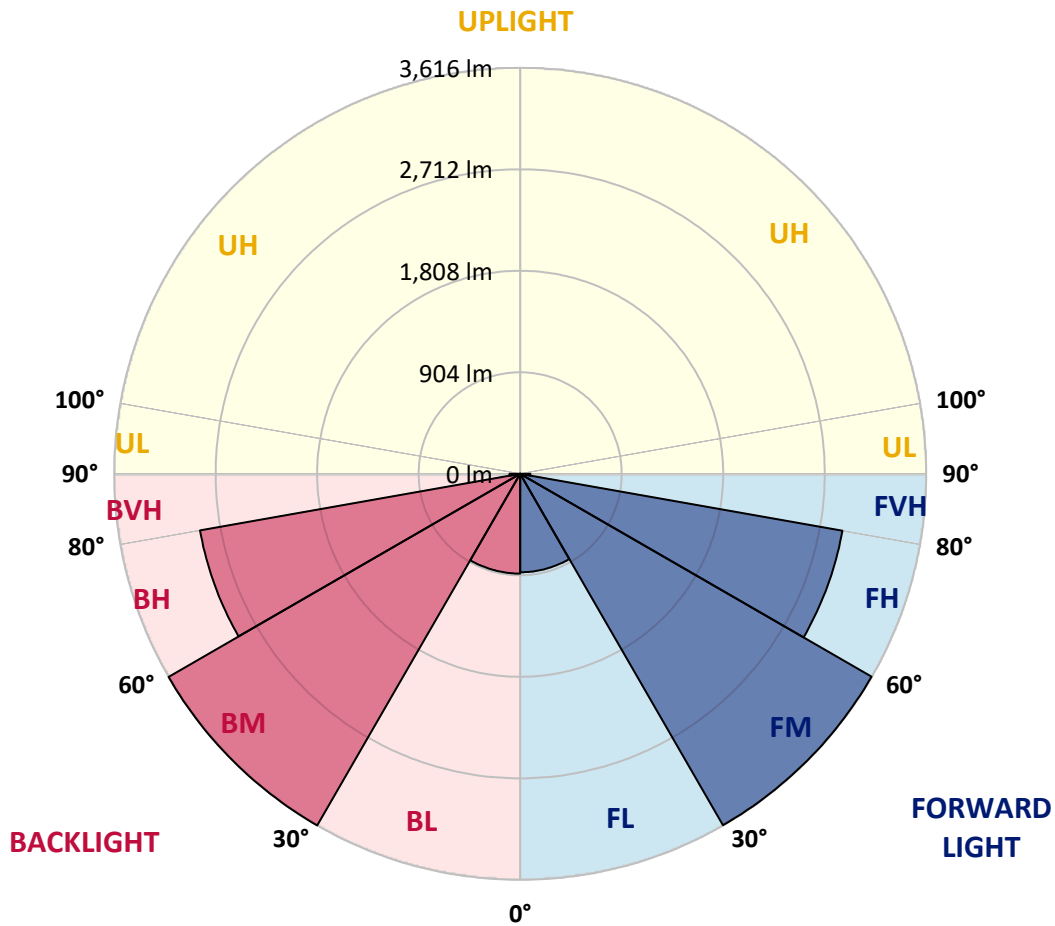
REPORT NUMBER: P565310  
 CATALOG NUMBER: MSA-SA3C-730-U-T1

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	876.7	5.8			
FM (30°-60°)	3613.6	24.1			
FH (60°-80°)	2914.1	19.4			G2/5000
FVH (80°-90°)	91.2	0.6			G1/100
BL (0°-30°)	889.0	5.9	B2/1000		
BM (30°-60°)	3616.0	24.1	B3/5000		
BH (60°-80°)	2895.5	19.3	B4/5000		G4/5000
BVH (80°-90°)	94.8	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type I Medium





REPORT NUMBER: P565310

CATALOG NUMBER: MSA-SA3C-730-U-T1

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
0°	949.5	949.5	949.5	949.5	949.5	949.5	949.5	949.5	949.5	949.5	949.5
2.5°	1114.3	985.8	974.7	943.9	966.3	974.7	955.1	927.2	957.9	974.7	943.9
5°	1404.7	1214.8	1150.6	1097.5	991.4	946.7	991.4	1105.9	1119.9	1189.7	1170.2
7.5°	1547.2	1516.5	1435.5	1259.5	1089.2	994.2	1114.3	1279.1	1362.9	1429.9	1499.7
10°	1653.3	1636.5	1494.1	1368.4	1298.6	1304.2	1307.0	1360.1	1432.7	1544.4	1583.5
12.5°	1678.4	1672.8	1695.2	1667.3	1672.8	1703.6	1672.8	1658.9	1700.8	1737.1	1698.0
15°	1840.4	1837.6	1846.0	1851.6	1963.3	2010.8	1963.3	1921.4	1890.7	1860.0	1924.2
17.5°	1952.1	1938.2	1941.0	1994.0	2119.7	2250.9	2225.8	2170.0	2100.1	2142.0	2195.1
20°	2013.6	1988.4	2005.2	2027.5	2239.8	2385.0	2401.8	2326.3	2284.5	2337.5	2382.2
22.5°	2072.2	2033.1	1974.5	1996.8	2192.3	2401.8	2482.7	2463.2	2493.9	2510.7	2502.3
25°	2002.4	2027.5	1963.3	2027.5	2225.8	2418.5	2580.5	2695.0	2697.8	2689.4	2750.8
27.5°	1960.5	1941.0	1832.0	1996.8	2161.6	2281.7	2695.0	2887.7	2946.3	2767.6	2887.7
30°	1887.9	1918.6	1770.6	1907.4	2116.9	2318.0	2826.2	3102.7	3016.2	2993.8	3021.7
32.5°	1843.2	1823.7	1753.8	1829.2	1988.4	2426.9	2910.0	3228.4	3337.3	3284.3	3278.7
35°	1770.6	1784.6	1675.6	1756.6	1980.0	2334.7	2965.9	3544.0	3711.5	3669.7	3636.1
37.5°	1781.8	1734.3	1656.1	1714.7	1927.0	2385.0	3105.5	3848.4	4113.7	4136.0	3982.4
40°	1698.0	1670.1	1552.8	1650.5	1826.4	2354.3	3139.0	4194.7	4644.3	4744.9	4524.2
42.5°	1577.9	1541.6	1474.6	1583.5	1767.8	2203.5	3186.5	4610.8	5183.3	5392.8	5191.7
45°	1404.7	1357.3	1323.8	1469.0	1639.3	2164.4	3136.2	4957.1	5700.0	5987.6	5982.0
47.5°	1195.3	1164.6	1147.8	1301.4	1533.2	2066.6	3032.9	5174.9	6060.2	6797.5	6685.8
50°	957.9	935.6	932.8	1094.8	1354.5	1865.5	2915.6	5283.9	6607.6	7540.4	7638.1
52.5°	768.0	751.2	748.5	879.7	1133.9	1594.7	2669.9	5367.6	7129.9	8383.8	8886.5
55°	600.4	583.7	586.5	695.4	902.1	1304.2	2295.6	5272.7	7587.9	9246.7	10199.1
57.5°	491.5	474.8	477.6	539.0	689.8	997.0	1829.2	5066.0	7794.5	10313.6	11729.5
60°	432.9	416.1	407.7	435.7	530.6	751.2	1360.1	4261.7	7828.0	11198.9	13391.2
62.5°	402.2	385.4	377.0	385.4	438.5	575.3	980.2	3376.4	7635.3	11955.7	14913.2
65°	374.2	360.3	349.1	357.5	385.4	458.0	714.9	2312.4	6627.2	12302.0	16019.1
67.5°	343.5	332.3	321.2	332.3	351.9	385.4	555.8	1463.4	4968.3	11852.4	16479.9
69°	326.7	310.0	304.4	312.8	332.3	354.7	480.4	1167.4	3778.6	10997.8	16200.7
70°	310.0	298.8	290.4	304.4	321.2	337.9	432.9	991.4	2963.1	9900.2	15508.1
72.5°	273.7	265.3	259.7	273.7	287.7	298.8	354.7	706.6	1717.5	6741.7	12299.2
75°	240.2	231.8	229.0	240.2	251.3	256.9	298.8	485.9	1013.8	3527.2	7378.4
77.5°	201.1	189.9	192.7	206.7	215.0	217.8	251.3	349.1	597.6	1597.4	3418.3
80°	148.0	148.0	159.2	170.4	170.4	170.4	201.1	254.1	363.1	734.5	1418.7
82.5°	103.3	106.1	108.9	125.7	128.5	117.3	153.6	184.3	226.2	321.2	491.5
85°	58.6	61.4	64.2	75.4	78.2	69.8	100.5	117.3	131.3	159.2	256.9
87.5°	22.3	25.1	33.5	39.1	41.9	30.7	47.5	55.9	55.9	67.0	114.5
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: P565310

CATALOG NUMBER: MSA-SA3C-730-U-T1

**CANDELA DISTRIBUTION (continued):**

	85°	87.5°	89°	90°	92.5°	95°	100°	105°	110°	115°	125°
0°	949.5	949.5	949.5	949.5	949.5	949.5	949.5	949.5	949.5	949.5	949.5
2.5°	1008.2	1027.7	1064.0	1072.4	1041.7	1008.2	932.8	980.2	999.8	963.5	974.7
5°	1248.4	1290.2	1334.9	1281.9	1248.4	1226.0	1189.7	1192.5	1172.9	1108.7	1002.6
7.5°	1519.2	1471.8	1505.3	1541.6	1488.5	1491.3	1524.8	1455.0	1402.0	1293.0	1094.8
10°	1644.9	1644.9	1653.3	1653.3	1631.0	1631.0	1628.2	1516.5	1452.2	1404.7	1348.9
12.5°	1653.3	1650.5	1684.0	1658.9	1664.5	1670.1	1684.0	1734.3	1717.5	1656.1	1706.4
15°	1885.1	1873.9	1885.1	1882.3	1890.7	1915.8	1904.6	1893.5	1896.3	1941.0	2016.4
17.5°	2102.9	2108.5	2097.3	2116.9	2116.9	2133.6	2172.7	2133.6	2100.1	2183.9	2242.6
20°	2354.3	2334.7	2290.0	2323.6	2331.9	2334.7	2399.0	2351.5	2304.0	2334.7	2404.5
22.5°	2608.4	2605.6	2611.2	2614.0	2625.2	2583.3	2496.7	2482.7	2513.5	2471.6	2479.9
25°	2764.8	2767.6	2781.6	2784.4	2736.9	2781.6	2812.3	2720.1	2720.1	2711.7	2655.9
27.5°	2954.7	2912.8	2929.6	2951.9	2932.4	2943.5	2907.2	2773.2	2915.6	2935.2	2711.7
30°	3083.2	3063.6	3044.1	3066.4	3086.0	3136.2	3032.9	3018.9	3030.1	3133.4	2840.2
32.5°	3354.1	3382.0	3345.7	3309.4	3345.7	3334.5	3289.8	3270.3	3409.9	3273.1	2929.6
35°	3605.4	3616.6	3619.4	3613.8	3636.1	3597.0	3597.0	3669.7	3711.5	3563.5	2957.5
37.5°	4211.4	4172.3	4091.4	4052.3	4122.1	4180.7	4007.6	4094.1	4077.4	3826.0	3167.0
40°	4647.1	4736.5	4761.6	4750.4	4761.6	4594.0	4630.4	4694.6	4619.2	4203.1	3094.3
42.5°	5283.9	5339.7	5320.2	5295.0	5306.2	5275.5	5166.6	5403.9	5133.0	4624.8	3206.1
45°	5864.7	5990.4	5998.8	5912.2	5982.0	5873.1	5917.8	6001.6	5727.9	4940.3	3175.3
47.5°	6557.3	6817.1	6719.3	6719.3	6789.1	6554.5	6660.7	6772.4	6046.3	5152.6	3007.8
50°	7582.3	7721.9	7716.3	7691.2	7721.9	7596.2	7579.5	7565.5	6535.0	5353.7	2904.4
52.5°	8741.3	8931.2	8858.6	8886.5	8928.4	8691.0	8878.1	8367.0	7146.6	5429.1	2669.9
55°	10221.4	10352.7	10280.1	10137.6	10327.5	10176.7	10238.2	9241.2	7571.1	5214.0	2278.9
57.5°	11983.6	12050.6	11930.6	11916.6	12042.3	11880.3	11777.0	10224.2	7791.7	5052.1	1820.9
60°	14041.9	14251.3	14175.9	14055.8	14170.3	14027.9	13245.9	11059.2	7747.0	4295.2	1410.3
62.5°	16510.6	16722.9	16639.1	16558.1	16630.7	16259.3	14625.5	11718.3	7546.0	3404.3	1030.5
65°	18549.3	19507.2	19632.9	19635.7	19283.8	18423.7	15725.9	11975.2	6484.7	2376.6	754.0
67.5°	19889.9	21881.1	22501.1	22277.6	21470.5	19507.2	16169.9	11472.6	5007.4	1502.5	564.1
69°	19736.3	22347.5	23243.9	23118.3	21984.4	19490.5	15823.6	10626.4	3826.0	1195.3	477.6
70°	19026.9	21964.9	23028.9	23084.7	21657.7	18742.0	15206.4	9654.5	3094.3	1019.3	438.5
72.5°	15184.1	18099.7	19035.3	19401.1	17985.2	15008.2	12469.6	6811.5	1792.9	712.1	354.7
75°	9405.9	10975.4	11751.8	11964.1	11106.7	9347.3	7568.3	3789.7	1092.0	502.7	298.8
77.5°	4217.0	4672.2	5119.1	5119.1	4784.0	4267.3	3468.6	1832.0	620.0	357.5	251.3
80°	1413.1	1466.2	1427.1	1441.1	1385.2	1332.1	1393.6	790.3	382.6	268.1	203.9
82.5°	960.7	1206.5	1281.9	1281.9	1203.7	949.5	536.2	363.1	234.6	192.7	156.4
85°	782.0	955.1	1024.9	1055.7	994.2	801.5	282.1	175.9	139.6	122.9	106.1
87.5°	262.5	245.8	231.8	226.2	237.4	248.6	139.6	75.4	64.2	58.6	55.9
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: P565310

CATALOG NUMBER: MSA-SA3C-730-U-T1

**CANDELA DISTRIBUTION (continued):**

	135°	145°	155°	165°	175°	180°
0°	949.5	949.5	949.5	949.5	949.5	949.5
2.5°	994.2	960.7	974.7	988.6	1089.2	1164.6
5°	988.6	1036.1	1142.2	1276.3	1337.7	1488.5
7.5°	1016.6	1189.7	1388.0	1527.6	1583.5	1631.0
10°	1360.1	1390.8	1457.8	1591.9	1703.6	1723.1
12.5°	1756.6	1748.3	1700.8	1762.2	1706.4	1745.5
15°	2066.6	1974.5	1910.2	1901.9	1882.3	1882.3
17.5°	2237.0	2156.0	2066.6	2044.3	1985.6	2033.1
20°	2438.1	2298.4	2075.0	2052.7	2033.1	1988.4
22.5°	2399.0	2259.3	2027.5	1999.6	2102.9	2097.3
25°	2446.4	2259.3	2038.7	2008.0	2055.5	2055.5
27.5°	2329.1	2175.5	2016.4	1832.0	1977.3	2010.8
30°	2298.4	2125.3	1941.0	1776.2	1924.2	1893.5
32.5°	2460.4	1999.6	1818.1	1767.8	1876.7	1854.4
35°	2334.7	1977.3	1787.3	1695.2	1823.7	1801.3
37.5°	2387.8	1949.3	1734.3	1656.1	1759.4	1792.9
40°	2376.6	1818.1	1672.8	1572.3	1675.6	1692.4
42.5°	2189.5	1717.5	1569.5	1469.0	1522.0	1577.9
45°	2133.6	1656.1	1469.0	1329.3	1332.1	1396.4
47.5°	2030.3	1516.5	1284.7	1156.2	1156.2	1209.3
50°	1857.2	1329.3	1075.2	957.9	955.1	997.0
52.5°	1600.2	1147.8	907.6	779.2	770.8	812.7
55°	1309.8	924.4	714.9	631.2	614.4	631.2
57.5°	1019.3	720.5	564.1	497.1	494.3	508.3
60°	790.3	564.1	449.6	410.5	416.1	438.5
62.5°	597.6	449.6	382.6	368.6	377.0	399.4
65°	474.8	388.2	349.1	340.7	349.1	371.4
67.5°	385.4	351.9	324.0	312.8	318.4	340.7
69°	354.7	332.3	310.0	296.0	301.6	318.4
70°	337.9	321.2	298.8	284.9	290.4	307.2
72.5°	296.0	287.7	270.9	256.9	259.7	273.7
75°	259.7	254.1	243.0	226.2	226.2	243.0
77.5°	217.8	220.6	209.5	192.7	189.9	198.3
80°	173.1	178.7	173.1	156.4	150.8	150.8
82.5°	125.7	136.8	131.3	114.5	111.7	111.7
85°	78.2	86.6	83.8	72.6	72.6	64.2
87.5°	36.3	47.5	44.7	39.1	36.3	25.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)