

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: P565302

Luminaire Tested: **MSA-SA1C-730-U-T1**

Issue Date: 8/19/2021

Test Information

Test Method: LM-79-08
Report Number: P565302
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-SA1C-730-U-T1
Description: MESA POST TOP DECORATIVE LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS.
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5164 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 59
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

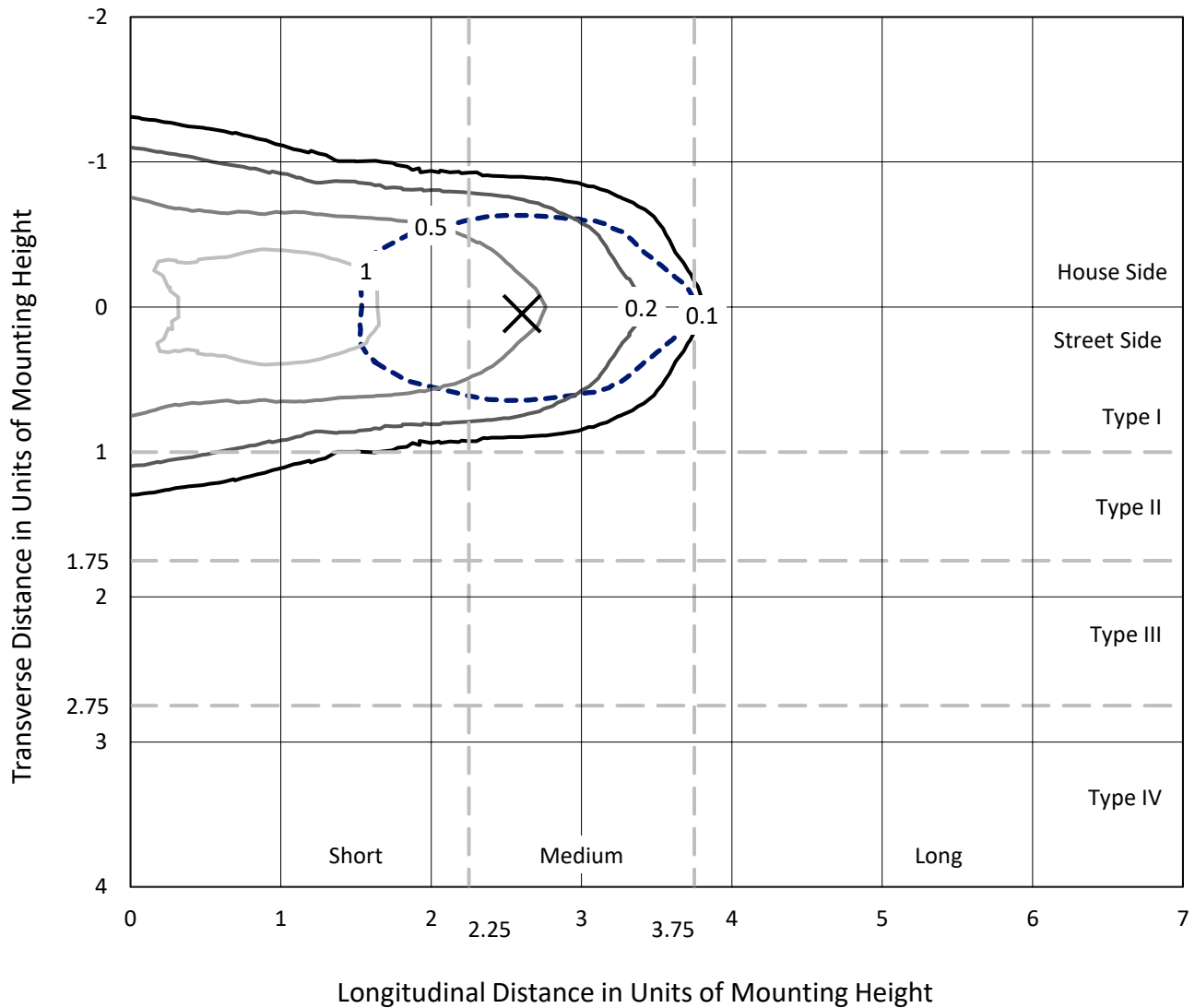


REPORT NUMBER: P565302

CATALOG NUMBER: MSA-SA1C-730-U-T1

Iso-Footcandle Lines of Horizontal Illumination

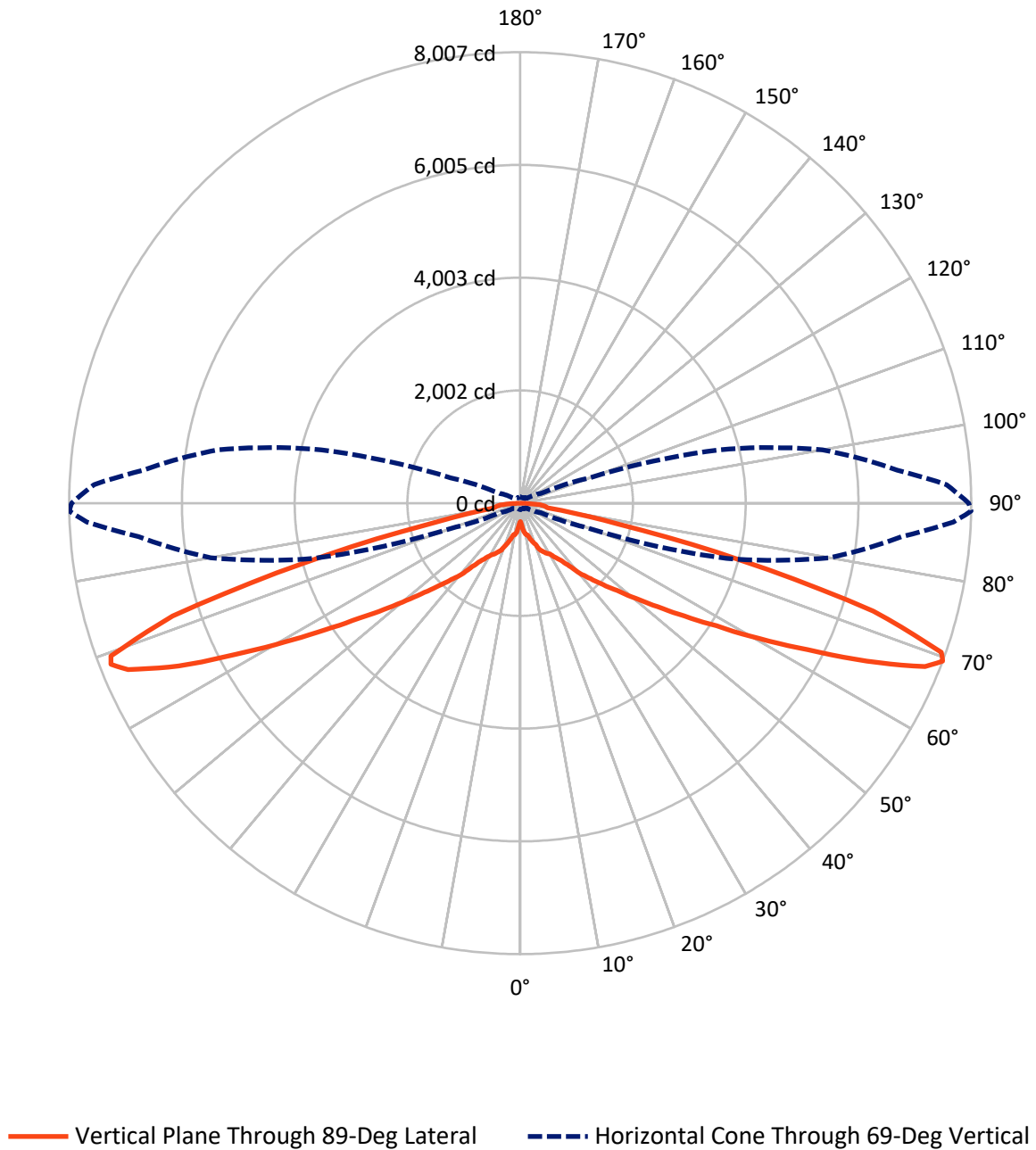
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type I - Medium - N/A

REPORT NUMBER: P565302
CATALOG NUMBER: MSA-SA1C-730-U-T1

Luminous Intensity Polar Plot



REPORT NUMBER: P565302

CATALOG NUMBER: MSA-SA1C-730-U-T1

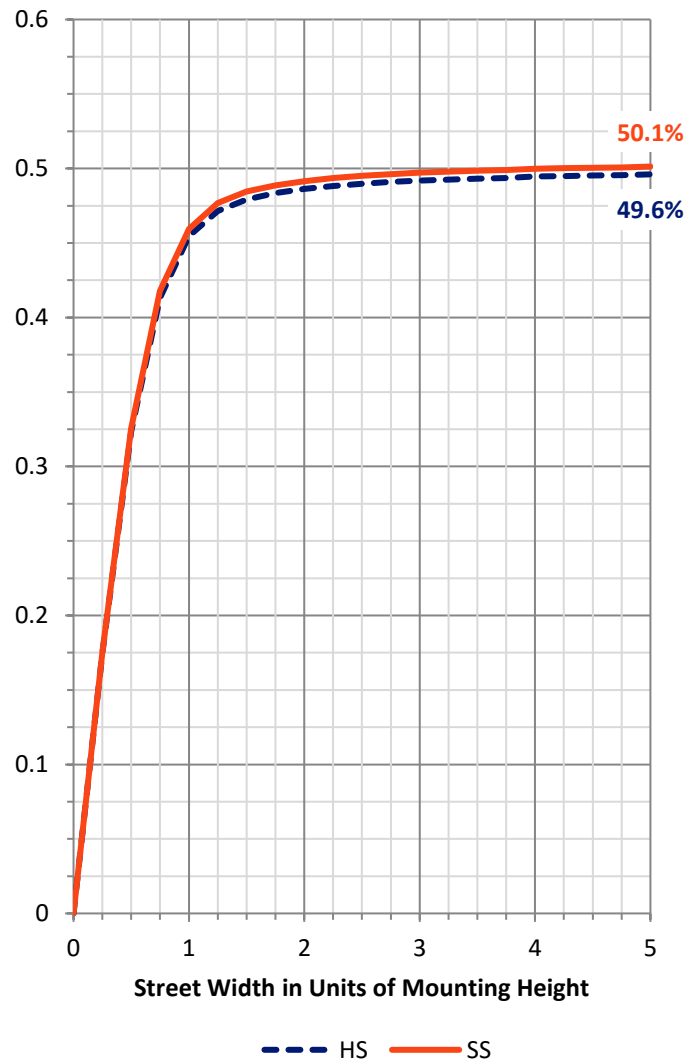
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2581.9	0.0	2581.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2582.1	0.0	2582.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	5164.0	0.0	5164.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.1	0.8
10°-20°	189.4	3.7
20°-30°	377.8	7.3
30°-40°	571.4	11.1
40°-50°	829.4	16.1
50°-60°	1089.7	21.1
60°-70°	1329.3	25.7
70°-80°	672.0	13.0
80°-90°	64.1	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°	5164.0	100.0
0°-180°	5164.0	100.0

Coefficient of Utilization



REPORT NUMBER: P565302

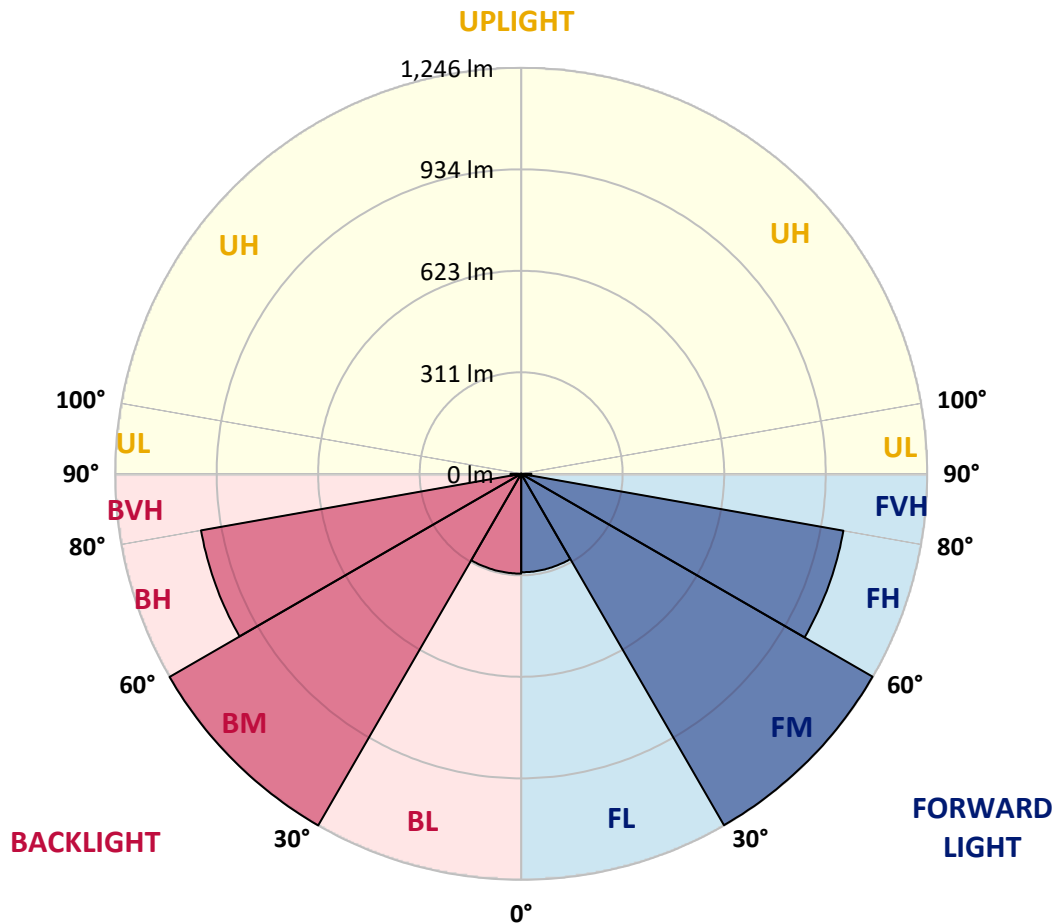
CATALOG NUMBER: MSA-SA1C-730-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	302.0	5.8			
FM	(30°-60°)	1244.8	24.1			
FH	(60°-80°)	1003.8	19.4			G1/1800
FVH	(80°-90°)	31.4	0.6			G1/100
BL	(0°-30°)	306.2	5.9	B1/500		
BM	(30°-60°)	1245.6	24.1	B2/2500		
BH	(60°-80°)	997.4	19.3	B2/1000		G2/1000
BVH	(80°-90°)	32.6	0.6			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 I Medium



REPORT NUMBER: P565302

CATALOG NUMBER: MSA-SA1C-730-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
0°	327.1	327.1	327.1	327.1	327.1	327.1	327.1	327.1	327.1	327.1	327.1
2.5°	383.8	339.6	335.7	325.2	332.9	335.7	329.0	319.4	330.0	335.7	325.2
5°	483.9	418.5	396.4	378.1	341.5	326.1	341.5	381.0	385.8	409.8	403.1
7.5°	533.0	522.4	494.5	433.9	375.2	342.5	383.8	440.6	469.5	492.6	516.6
10°	569.5	563.7	514.7	471.4	447.3	449.3	450.2	468.5	493.5	532.0	545.5
12.5°	578.2	576.3	583.9	574.3	576.3	586.8	576.3	571.4	585.9	598.4	584.9
15°	634.0	633.0	635.9	637.8	676.3	692.7	676.3	661.9	651.3	640.7	662.8
17.5°	672.5	667.6	668.6	686.9	730.2	775.4	766.7	747.5	723.4	737.9	756.1
20°	693.6	685.0	690.7	698.4	771.5	821.6	827.3	801.4	786.9	805.2	820.6
22.5°	713.8	700.4	680.1	687.8	755.2	827.3	855.2	848.5	859.1	864.9	862.0
25°	689.8	698.4	676.3	698.4	766.7	833.1	888.9	928.4	929.3	926.4	947.6
27.5°	675.3	668.6	631.1	687.8	744.6	786.0	928.4	994.7	1014.9	953.4	994.7
30°	650.3	660.9	609.9	657.1	729.2	798.5	973.6	1068.8	1039.0	1031.3	1040.9
32.5°	634.9	628.2	604.2	630.1	685.0	836.0	1002.4	1112.1	1149.6	1131.3	1129.4
35°	609.9	614.7	577.2	605.1	682.1	804.3	1021.7	1220.8	1278.5	1264.1	1252.6
37.5°	613.8	597.4	570.5	590.7	663.8	821.6	1069.8	1325.7	1417.1	1424.8	1371.8
40°	584.9	575.3	534.9	568.6	629.2	811.0	1081.3	1445.0	1599.8	1634.5	1558.5
42.5°	543.5	531.0	507.9	545.5	609.0	759.0	1097.7	1588.3	1785.5	1857.7	1788.4
45°	483.9	467.5	456.0	506.0	564.7	745.6	1080.4	1707.6	1963.5	2062.6	2060.7
47.5°	411.7	401.2	395.4	448.3	528.2	711.9	1044.8	1782.6	2087.6	2341.6	2303.1
50°	330.0	322.3	321.3	377.1	466.6	642.6	1004.4	1820.1	2276.1	2597.5	2631.1
52.5°	264.6	258.8	257.8	303.0	390.6	549.3	919.7	1849.0	2456.0	2888.0	3061.2
55°	206.8	201.1	202.0	239.5	310.7	449.3	790.8	1816.3	2613.8	3185.3	3513.3
57.5°	169.3	163.5	164.5	185.7	237.6	343.4	630.1	1745.1	2685.0	3552.7	4040.5
60°	149.1	143.3	140.5	150.1	182.8	258.8	468.5	1468.0	2696.5	3857.7	4612.9
62.5°	138.5	132.8	129.9	132.8	151.0	198.2	337.7	1163.1	2630.2	4118.4	5137.2
65°	128.9	124.1	120.3	123.1	132.8	157.8	246.3	796.6	2282.9	4237.7	5518.2
67.5°	118.3	114.5	110.6	114.5	121.2	132.8	191.4	504.1	1711.4	4082.8	5676.9
69°	112.6	106.8	104.9	107.7	114.5	122.2	165.5	402.1	1301.6	3788.4	5580.7
70°	106.8	102.9	100.1	104.9	110.6	116.4	149.1	341.5	1020.7	3410.4	5342.1
72.5°	94.3	91.4	89.5	94.3	99.1	102.9	122.2	243.4	591.6	2322.3	4236.7
75°	82.7	79.8	78.9	82.7	86.6	88.5	102.9	167.4	349.2	1215.0	2541.7
77.5°	69.3	65.4	66.4	71.2	74.1	75.0	86.6	120.3	205.9	550.3	1177.5
80°	51.0	51.0	54.8	58.7	58.7	58.7	69.3	87.5	125.1	253.0	488.7
82.5°	35.6	36.6	37.5	43.3	44.3	40.4	52.9	63.5	77.9	110.6	169.3
85°	20.2	21.2	22.1	26.0	26.9	24.1	34.6	40.4	45.2	54.8	88.5
87.5°	7.7	8.7	11.5	13.5	14.4	10.6	16.4	19.2	19.2	23.1	39.4
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: P565302

CATALOG NUMBER: MSA-SA1C-730-U-T1

CANDELA DISTRIBUTION (continued):

	85°	87.5°	89°	90°	92.5°	95°	100°	105°	110°	115°	125°
0°	327.1	327.1	327.1	327.1	327.1	327.1	327.1	327.1	327.1	327.1	327.1
2.5°	347.3	354.0	366.5	369.4	358.8	347.3	321.3	337.7	344.4	331.9	335.7
5°	430.0	444.5	459.8	441.6	430.0	422.3	409.8	410.8	404.0	381.9	345.4
7.5°	523.3	507.0	518.5	531.0	512.8	513.7	525.3	501.2	482.9	445.4	377.1
10°	566.6	566.6	569.5	569.5	561.8	561.8	560.9	522.4	500.3	483.9	464.7
12.5°	569.5	568.6	580.1	571.4	573.4	575.3	580.1	597.4	591.6	570.5	587.8
15°	649.4	645.5	649.4	648.4	651.3	659.9	656.1	652.3	653.2	668.6	694.6
17.5°	724.4	726.3	722.5	729.2	729.2	735.0	748.5	735.0	723.4	752.3	772.5
20°	811.0	804.3	788.9	800.4	803.3	804.3	826.4	810.0	793.7	804.3	828.3
22.5°	898.5	897.6	899.5	900.5	904.3	889.9	860.0	855.2	865.8	851.4	854.3
25°	952.4	953.4	958.2	959.1	942.8	958.2	968.8	937.0	937.0	934.1	914.9
27.5°	1017.8	1003.4	1009.2	1016.9	1010.1	1014.0	1001.5	955.3	1004.4	1011.1	934.1
30°	1062.1	1055.3	1048.6	1056.3	1063.0	1080.4	1044.8	1039.9	1043.8	1079.4	978.4
32.5°	1155.4	1165.0	1152.5	1140.0	1152.5	1148.7	1133.3	1126.5	1174.6	1127.5	1009.2
35°	1242.0	1245.8	1246.8	1244.9	1252.6	1239.1	1239.1	1264.1	1278.5	1227.5	1018.8
37.5°	1450.7	1437.3	1409.4	1395.9	1419.9	1440.1	1380.5	1410.3	1404.6	1318.0	1090.9
40°	1600.8	1631.6	1640.2	1636.4	1640.2	1582.5	1595.0	1617.2	1591.2	1447.8	1065.9
42.5°	1820.1	1839.4	1832.7	1824.0	1827.8	1817.3	1779.7	1861.5	1768.2	1593.1	1104.4
45°	2020.2	2063.5	2066.4	2036.6	2060.7	2023.1	2038.5	2067.4	1973.1	1701.8	1093.8
47.5°	2258.8	2348.3	2314.6	2314.6	2338.7	2257.9	2294.4	2332.9	2082.8	1774.9	1036.1
50°	2611.9	2660.0	2658.1	2649.4	2660.0	2616.7	2610.9	2606.1	2251.1	1844.2	1000.5
52.5°	3011.1	3076.5	3051.5	3061.2	3075.6	2993.8	3058.3	2882.2	2461.8	1870.2	919.7
55°	3521.0	3566.2	3541.2	3492.1	3557.6	3505.6	3526.8	3183.3	2608.0	1796.1	785.0
57.5°	4128.0	4151.1	4109.8	4104.9	4148.2	4092.4	4056.8	3522.0	2684.0	1740.3	627.2
60°	4837.0	4909.2	4883.2	4841.9	4881.3	4832.2	4562.9	3809.6	2668.7	1479.6	485.8
62.5°	5687.5	5760.6	5731.7	5703.8	5728.8	5600.9	5038.1	4036.6	2599.4	1172.7	355.0
65°	6389.8	6719.7	6763.0	6764.0	6642.8	6346.5	5417.1	4125.2	2233.8	818.7	259.7
67.5°	6851.5	7537.4	7751.0	7674.1	7396.0	6719.7	5570.1	3952.0	1724.9	517.6	194.3
69°	6798.6	7698.1	8006.9	7963.6	7573.0	6714.0	5450.8	3660.5	1318.0	411.7	164.5
70°	6554.3	7566.3	7932.8	7952.1	7460.5	6456.1	5238.2	3325.7	1065.9	351.1	151.0
72.5°	5230.5	6234.9	6557.1	6683.2	6195.4	5169.9	4295.4	2346.4	617.6	245.3	122.2
75°	3240.1	3780.7	4048.2	4121.3	3826.0	3219.9	2607.1	1305.5	376.2	173.2	102.9
77.5°	1452.7	1609.5	1763.4	1763.4	1647.9	1470.0	1194.8	631.1	213.6	123.1	86.6
80°	486.8	505.1	491.6	496.4	477.2	458.9	480.0	272.3	131.8	92.4	70.2
82.5°	330.9	415.6	441.6	441.6	414.6	327.1	184.7	125.1	80.8	66.4	53.9
85°	269.4	329.0	353.1	363.6	342.5	276.1	97.2	60.6	48.1	42.3	36.6
87.5°	90.4	84.7	79.8	77.9	81.8	85.6	48.1	26.0	22.1	20.2	19.2
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: P565302

CATALOG NUMBER: MSA-SA1C-730-U-T1

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	327.1	327.1	327.1	327.1	327.1	327.1
2.5°	342.5	330.9	335.7	340.6	375.2	401.2
5°	340.6	356.9	393.5	439.6	460.8	512.8
7.5°	350.2	409.8	478.1	526.2	545.5	561.8
10°	468.5	479.1	502.2	548.4	586.8	593.6
12.5°	605.1	602.2	585.9	607.0	587.8	601.3
15°	711.9	680.1	658.0	655.1	648.4	648.4
17.5°	770.6	742.7	711.9	704.2	684.0	700.4
20°	839.8	791.7	714.8	707.1	700.4	685.0
22.5°	826.4	778.3	698.4	688.8	724.4	722.5
25°	842.7	778.3	702.3	691.7	708.0	708.0
27.5°	802.3	749.4	694.6	631.1	681.1	692.7
30°	791.7	732.1	668.6	611.8	662.8	652.3
32.5°	847.5	688.8	626.3	609.0	646.5	638.8
35°	804.3	681.1	615.7	583.9	628.2	620.5
37.5°	822.5	671.5	597.4	570.5	606.1	617.6
40°	818.7	626.3	576.3	541.6	577.2	583.0
42.5°	754.2	591.6	540.7	506.0	524.3	543.5
45°	735.0	570.5	506.0	457.9	458.9	481.0
47.5°	699.4	522.4	442.5	398.3	398.3	416.6
50°	639.7	457.9	370.4	330.0	329.0	343.4
52.5°	551.2	395.4	312.7	268.4	265.5	279.9
55°	451.2	318.4	246.3	217.4	211.6	217.4
57.5°	351.1	248.2	194.3	171.2	170.3	175.1
60°	272.3	194.3	154.9	141.4	143.3	151.0
62.5°	205.9	154.9	131.8	127.0	129.9	137.6
65°	163.5	133.7	120.3	117.4	120.3	127.9
67.5°	132.8	121.2	111.6	107.7	109.7	117.4
69°	122.2	114.5	106.8	102.0	103.9	109.7
70°	116.4	110.6	102.9	98.1	100.1	105.8
72.5°	102.0	99.1	93.3	88.5	89.5	94.3
75°	89.5	87.5	83.7	77.9	77.9	83.7
77.5°	75.0	76.0	72.2	66.4	65.4	68.3
80°	59.6	61.6	59.6	53.9	51.9	51.9
82.5°	43.3	47.1	45.2	39.4	38.5	38.5
85°	26.9	29.8	28.9	25.0	25.0	22.1
87.5°	12.5	16.4	15.4	13.5	12.5	8.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)