

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: STREETWORKS

Report Number: P212609

Luminaire Tested: **MPW-AF-D-U-ASYM-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P212609
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14376)
Test Lab: INNOVATION CENTER-P1
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: MPW-AF-D-U-ASYM-7050-800
Description: WOODBRIDGE LED POST-TOP LUMINAIRE
(1) 70 CRI, 5000K, 800mA LIGHTSQUARE WITH 16 LEDS AND ASYMMETRIC OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3415 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.58')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U3 - G2

Input Watts (W): 44
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



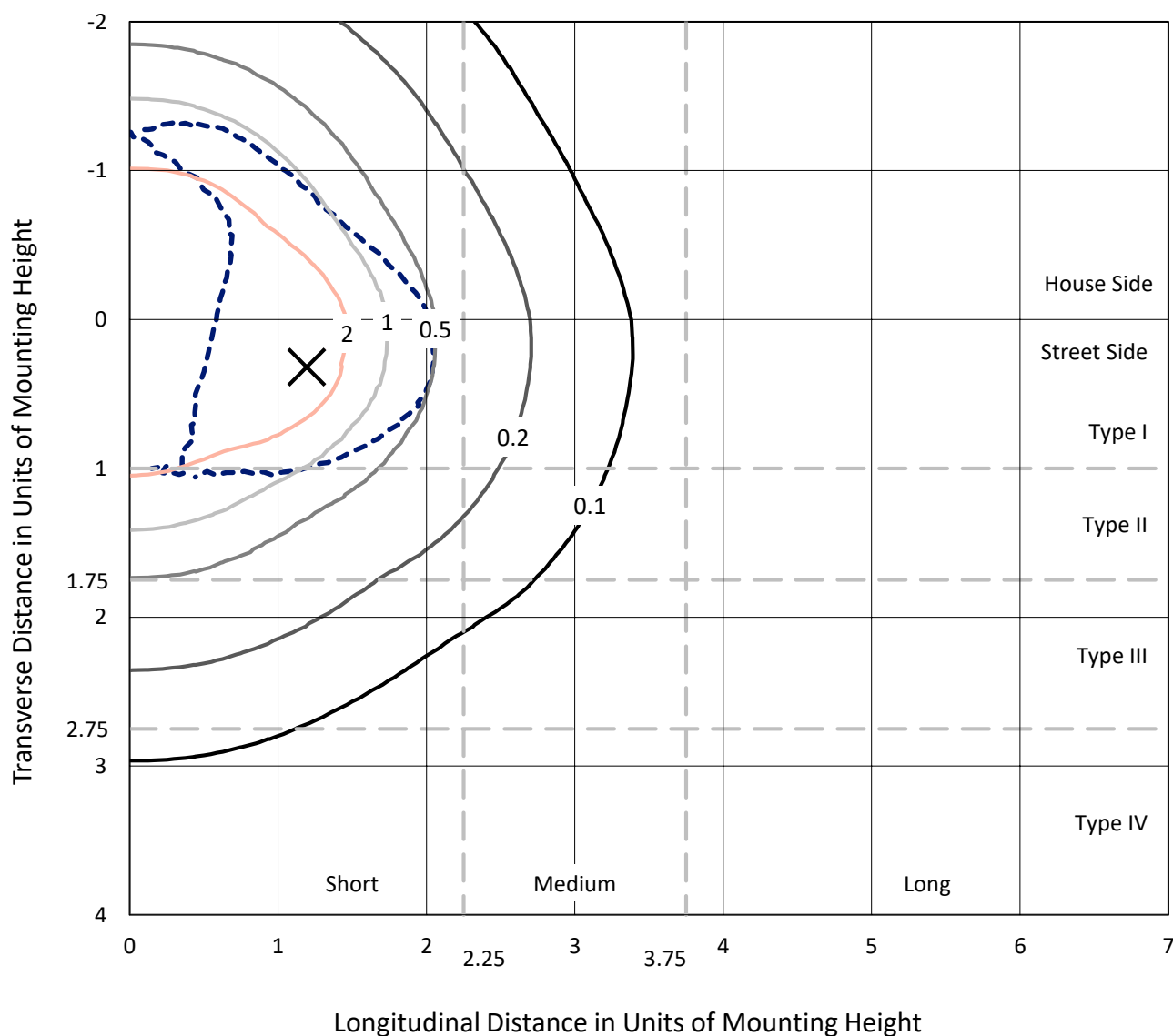
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

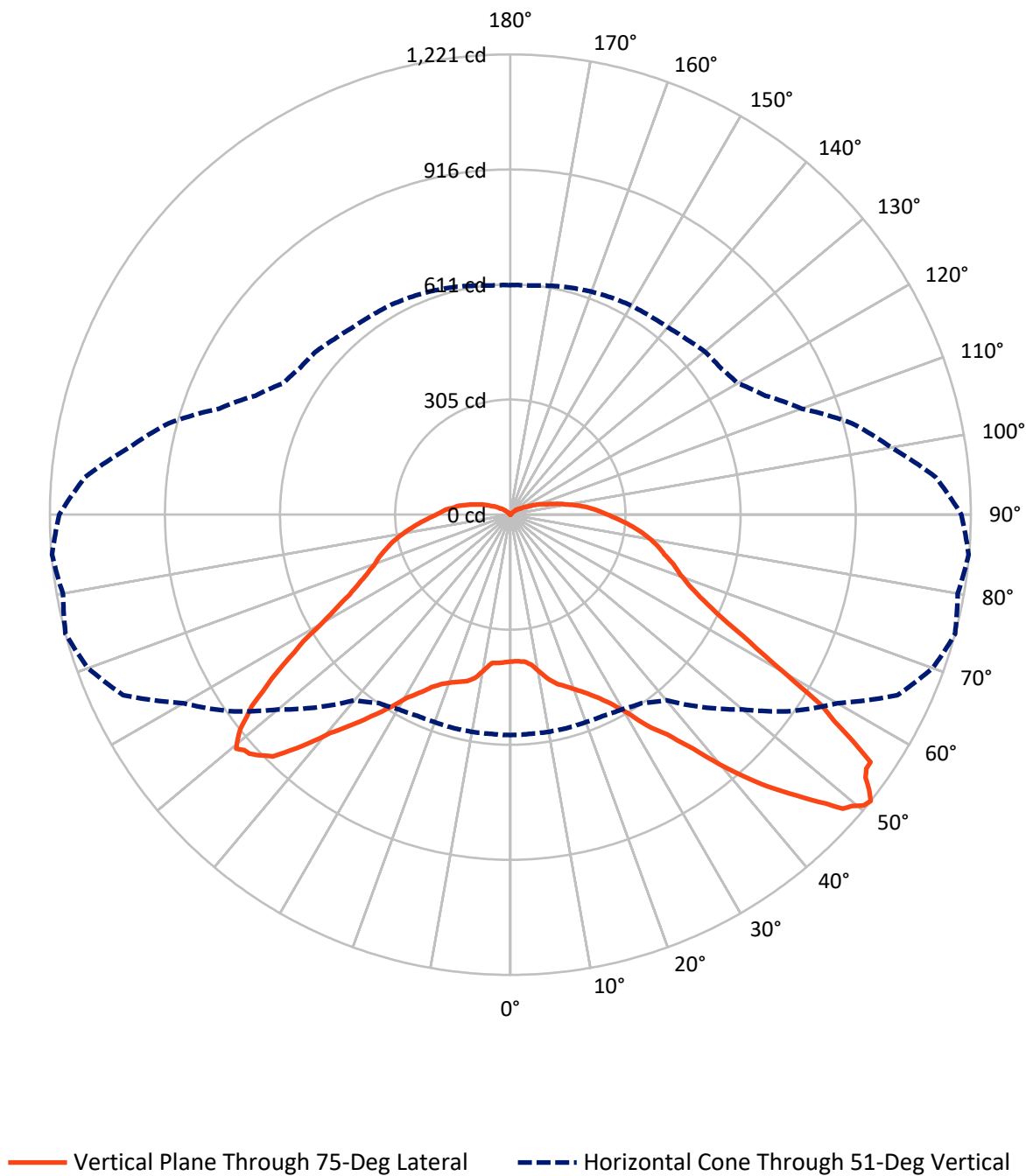


Based on 10 foot mounting height. Maximum calculated value = 4.2 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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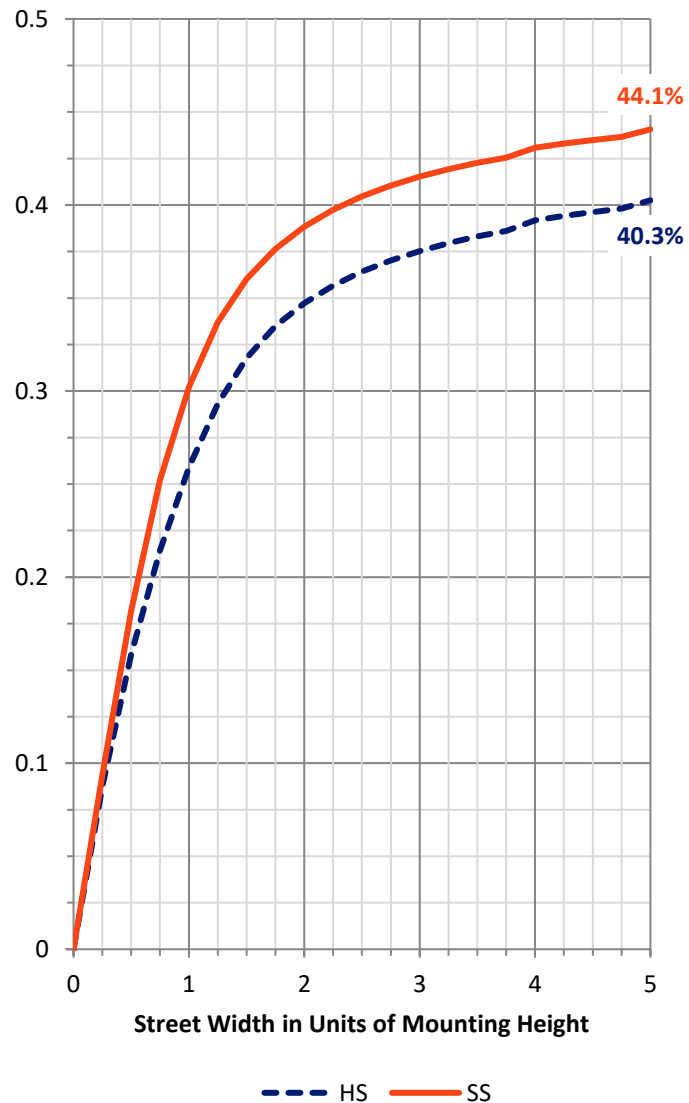
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1452.7	202.4	1655.1
	% Fixture	42.5	5.9	48.5
Street Side	Lumens	1572.1	187.9	1759.9
	% Fixture	46.0	5.5	51.5
Total	Lumens	3024.7	390.3	3415.0
	% Fixture	88.6	11.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.4	1.1
10°-20°	123.4	3.6
20°-30°	225.9	6.6
30°-40°	372.8	10.9
40°-50°	580.1	17.0
50°-60°	626.6	18.3
60°-70°	436.3	12.8
70°-80°	352.2	10.3
80°-90°	270.0	7.9
90°-100°	192.6	5.6
100°-110°	116.1	3.4
110°-120°	55.3	1.6
120°-130°	22.0	0.6
130°-140°	4.2	0.1
140°-150°	0.1	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3024.7	88.6
0°-180°	3415.0	100.0

Coefficient of Utilization



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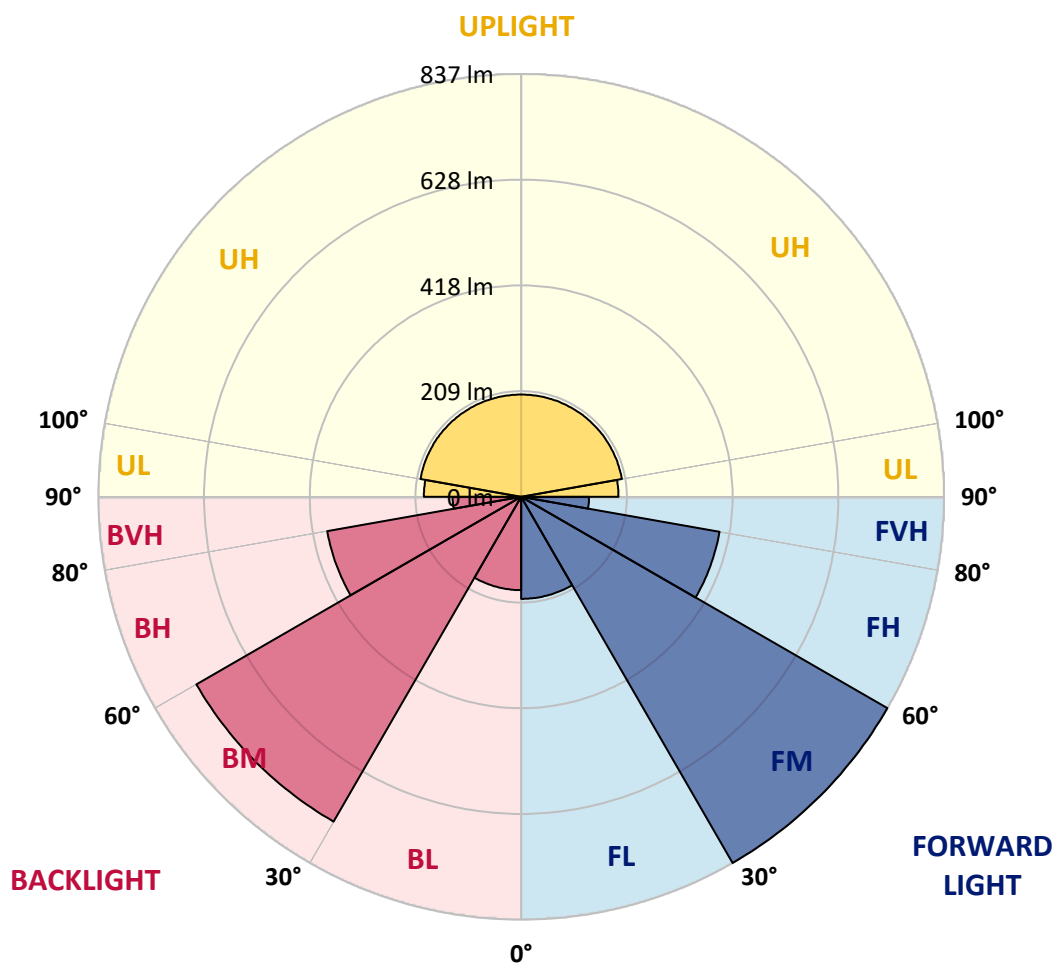
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	202.0	5.9			
FM	(30°-60°)	837.0	24.5			
FH	(60°-80°)	398.7	11.7			G0/660
FVH	(80°-90°)	134.4	3.9			G2/225
BL	(0°-30°)	184.7	5.4	B1/500		
BM	(30°-60°)	742.5	21.7	B1/1000		
BH	(60°-80°)	389.8	11.4	B1/500		G1/500
BVH	(80°-90°)	135.6	4.0			G2/225
UL	(90°-100°)	192.6	5.6		U3/500	
UH	(100°-180°)	202.4	5.9		U3/500	

BUG Rating: B1-U3-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	389.6	389.6	389.6	389.6	389.6	389.6	389.6	389.6	389.6	389.6	389.6
2.5°	387.4	387.4	387.4	387.4	388.5	387.4	388.5	387.4	388.5	388.5	389.6
5°	374.3	374.3	376.5	376.5	377.6	378.7	380.9	380.9	383.1	384.1	385.2
7.5°	380.9	382.0	382.0	380.9	382.0	384.1	385.2	387.4	390.7	392.9	396.2
10°	394.0	392.9	394.0	394.0	395.1	397.2	400.5	404.9	407.1	411.4	415.8
12.5°	409.2	409.2	411.4	411.4	413.6	416.9	422.3	424.5	427.8	433.3	437.6
15°	427.8	427.8	428.9	430.0	432.2	436.5	440.9	444.2	446.4	449.6	452.9
17.5°	448.5	450.7	451.8	454.0	455.1	458.4	460.5	461.6	462.7	463.8	467.1
20°	466.0	466.0	468.2	470.4	472.5	478.0	479.1	479.1	478.0	480.2	482.4
22.5°	466.0	464.9	470.4	478.0	483.5	488.9	492.2	494.4	496.6	495.5	498.7
25°	456.2	457.3	462.7	471.5	483.5	493.3	502.0	507.5	512.9	514.0	518.4
27.5°	470.4	470.4	475.8	483.5	493.3	504.2	515.1	526.0	533.7	541.3	546.8
30°	482.4	484.5	491.1	500.9	508.6	519.5	531.5	544.6	555.5	565.3	572.9
32.5°	504.2	505.3	509.6	516.2	527.1	540.2	554.4	569.7	586.0	598.0	610.1
35°	528.2	524.9	524.9	530.4	539.1	551.1	567.5	587.1	617.7	634.1	650.4
37.5°	546.8	546.8	547.8	551.1	555.5	564.2	579.5	603.5	639.5	676.6	693.0
40°	575.1	575.1	574.0	577.3	581.7	589.3	602.4	625.3	655.9	717.0	759.6
42.5°	595.9	594.8	595.9	600.2	601.3	606.8	619.9	645.0	677.7	734.5	808.7
45°	607.9	607.9	606.8	609.0	612.2	618.8	627.5	652.6	695.2	753.0	829.4
46°	609.0	609.0	607.9	610.1	613.3	618.8	626.4	650.4	697.4	758.5	830.5
47°	607.9	605.7	605.7	606.8	609.0	613.3	621.0	641.7	691.9	749.7	831.6
48°	604.6	603.5	604.6	606.8	606.8	612.2	618.8	638.4	685.4	748.6	845.8
49°	602.4	602.4	603.5	604.6	606.8	610.1	618.8	637.3	675.5	747.6	837.0
50°	598.0	598.0	599.1	601.3	600.2	601.3	610.1	624.2	659.2	738.8	826.1
51°	585.0	583.9	585.0	586.0	586.0	588.2	595.9	610.1	642.8	722.5	804.3
52°	568.6	568.6	569.7	571.9	572.9	575.1	581.7	594.8	625.3	705.0	784.7
53°	544.6	546.8	552.2	552.2	554.4	557.7	565.3	578.4	606.8	675.5	759.6
54°	532.6	534.7	540.2	543.5	545.7	552.2	559.9	570.8	594.8	652.6	750.8
55°	505.3	507.5	511.8	517.3	519.5	526.0	533.7	546.8	571.9	624.2	711.5
56°	484.5	485.6	491.1	494.4	495.5	498.7	505.3	514.0	535.8	578.4	661.3
57°	466.0	463.8	467.1	471.5	472.5	475.8	482.4	488.9	507.5	547.8	621.0
58°	438.7	434.3	438.7	442.0	444.2	447.4	454.0	459.4	475.8	512.9	577.3
59°	416.9	419.1	423.4	426.7	428.9	432.2	435.4	442.0	456.2	485.6	546.8
60°	401.6	402.7	404.9	408.2	410.3	413.6	416.9	422.3	435.4	461.6	516.2
61°	388.5	388.5	391.8	395.1	395.1	398.3	400.5	404.9	416.9	438.7	487.8
62°	377.6	375.4	378.7	383.1	383.1	386.3	387.4	391.8	401.6	420.2	464.9
63°	364.5	365.6	366.7	371.1	371.1	374.3	374.3	379.8	386.3	403.8	444.2
64°	352.5	355.8	354.7	358.0	359.0	360.1	362.3	365.6	372.1	389.6	425.6
65°	348.1	348.1	351.4	352.5	353.6	355.8	358.0	361.2	367.8	382.0	420.2
66°	341.6	341.6	343.8	346.0	346.0	348.1	351.4	354.7	360.1	373.2	408.2
67°	335.0	335.0	336.1	338.3	338.3	339.4	342.7	346.0	352.5	365.6	398.3
68°	328.5	328.5	329.6	330.7	330.7	331.8	335.0	339.4	346.0	358.0	389.6
69°	324.1	319.8	323.0	323.0	323.0	325.2	326.3	330.7	339.4	352.5	380.9
70°	313.2	314.3	315.4	316.5	316.5	315.4	316.5	321.9	329.6	342.7	371.1
72.5°	299.0	300.1	301.2	301.2	300.1	300.1	301.2	304.5	311.0	324.1	350.3



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CATALOG NUMBER: MPW-AF-D-U-ASYM-7050-800

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
75°	278.3	280.5	280.5	280.5	278.3	278.3	279.4	281.6	285.9	297.9	320.8
77.5°	265.2	264.1	265.2	264.1	263.0	263.0	261.9	263.0	266.3	277.2	297.9
80°	249.9	246.6	247.7	245.5	245.5	244.5	242.3	242.3	245.5	258.6	275.0
82.5°	230.3	229.2	230.3	229.2	227.0	224.8	222.6	223.7	227.0	232.5	249.9
85°	212.8	215.0	213.9	211.7	208.4	206.3	204.1	205.2	206.3	210.6	227.0
87.5°	199.7	198.6	199.7	196.4	194.3	192.1	189.9	188.8	189.9	194.3	203.0
90°	187.7	187.7	186.6	185.5	182.3	181.2	177.9	176.8	176.8	181.2	192.1
92.5°	179.0	177.9	175.7	175.7	171.3	168.1	167.0	165.9	164.8	169.2	179.0
95°	164.8	163.7	163.7	162.6	159.3	157.2	155.0	153.9	155.0	157.2	165.9
97.5°	144.1	147.3	144.1	144.1	140.8	139.7	138.6	136.4	136.4	139.7	146.2
100°	135.3	134.2	133.1	132.1	131.0	129.9	128.8	127.7	127.7	131.0	135.3
102.5°	122.2	119.0	119.0	114.6	114.6	114.6	113.5	113.5	114.6	119.0	121.1
105°	102.6	101.5	101.5	100.4	100.4	99.3	99.3	98.2	100.4	101.5	105.9
107.5°	87.3	87.3	87.3	86.2	86.2	86.2	86.2	86.2	86.2	88.4	91.7
110°	74.2	73.1	74.2	73.1	74.2	73.1	73.1	73.1	75.3	76.4	81.8
112.5°	58.9	60.0	61.1	60.0	60.0	61.1	61.1	61.1	62.2	63.3	65.5
115°	49.1	45.8	45.8	46.9	45.8	46.9	46.9	49.1	49.1	51.3	51.3
117.5°	38.2	38.2	38.2	39.3	39.3	39.3	40.4	41.5	41.5	42.6	43.7
120°	28.4	29.5	27.3	30.6	28.4	29.5	29.5	30.6	33.8	31.6	32.7
122.5°	22.9	22.9	22.9	24.0	24.0	24.0	24.0	25.1	25.1	25.1	26.2
125°	18.6	19.6	20.7	20.7	19.6	20.7	20.7	20.7	21.8	24.0	24.0
127.5°	15.3	14.2	15.3	15.3	16.4	16.4	15.3	15.3	16.4	16.4	17.5
130°	10.9	10.9	10.9	10.9	10.9	10.9	10.9	12.0	12.0	12.0	12.0
132.5°	3.3	4.4	4.4	4.4	4.4	5.5	4.4	5.5	5.5	4.4	5.5
135°	1.1	1.1	1.1	1.1	1.1	2.2	2.2	3.3	2.2	1.1	2.2
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°	1.1	1.1	1.1	0.0	1.1	2.2	1.1	1.1	1.1	0.0	1.1
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	389.6	389.6	389.6	389.6	389.6	389.6	389.6	389.6	389.6	389.6	389.6
2.5°	389.6	389.6	390.7	389.6	389.6	389.6	390.7	390.7	390.7	391.8	391.8
5°	385.2	388.5	388.5	390.7	391.8	392.9	394.0	392.9	394.0	394.0	395.1
7.5°	397.2	397.2	400.5	400.5	401.6	401.6	402.7	399.4	399.4	398.3	396.2
10°	420.2	422.3	423.4	424.5	423.4	422.3	420.2	420.2	420.2	418.0	416.9
12.5°	439.8	444.2	446.4	448.5	447.4	447.4	445.3	444.2	444.2	444.2	442.0
15°	457.3	460.5	463.8	466.0	466.0	464.9	466.0	462.7	462.7	459.4	456.2
17.5°	471.5	475.8	478.0	481.3	479.1	478.0	476.9	473.6	471.5	468.2	463.8
20°	486.7	490.0	493.3	496.6	495.5	493.3	490.0	486.7	482.4	479.1	472.5
22.5°	503.1	507.5	511.8	514.0	514.0	511.8	507.5	504.2	497.6	492.2	484.5
25°	522.7	528.2	533.7	535.8	536.9	534.7	528.2	523.8	518.4	510.7	503.1
27.5°	552.2	559.9	565.3	567.5	567.5	566.4	560.9	556.6	547.8	541.3	530.4
30°	580.6	593.7	603.5	613.3	609.0	604.6	601.3	594.8	583.9	572.9	558.8
32.5°	626.4	642.8	660.3	667.9	667.9	664.6	657.0	650.4	641.7	625.3	603.5
35°	672.3	693.0	713.7	717.0	715.9	714.8	708.3	708.3	699.5	673.3	648.2
37.5°	717.0	757.4	781.4	789.0	787.9	787.9	778.1	774.8	756.3	727.9	698.4
40°	771.6	828.3	875.2	888.3	885.1	879.6	866.5	860.0	836.0	792.3	750.8
42.5°	838.1	898.2	966.9	989.8	977.8	968.0	968.0	949.5	927.6	881.8	826.1
45°	896.0	946.2	1047.7	1081.5	1063.0	1043.3	1050.9	1043.3	1017.1	959.3	899.3
46°	910.2	971.3	1090.2	1123.0	1100.1	1079.3	1088.1	1077.1	1048.8	987.7	912.3
47°	930.9	994.2	1121.9	1160.1	1135.0	1103.3	1125.2	1111.0	1073.9	1009.5	926.5
48°	940.7	1012.8	1152.4	1187.4	1177.5	1133.9	1159.0	1135.0	1107.7	1024.8	938.5
49°	935.3	1010.6	1154.6	1201.6	1190.6	1161.2	1178.6	1153.5	1104.4	1040.0	942.9
50°	930.9	1009.5	1150.3	1207.0	1213.6	1193.9	1193.9	1175.4	1115.3	1026.9	956.0
51°	909.1	1000.7	1132.8	1191.7	1221.2	1204.8	1220.1	1196.1	1132.8	1025.8	937.4
52°	877.4	986.6	1114.2	1178.6	1199.4	1189.5	1217.9	1208.1	1140.4	1025.8	915.6
53°	848.0	972.4	1080.4	1155.7	1172.1	1154.6	1177.5	1184.1	1106.6	1016.0	881.8
54°	818.5	930.9	1067.3	1173.2	1160.1	1137.2	1168.8	1167.7	1087.0	962.5	852.3
55°	778.1	876.3	1013.8	1130.6	1159.0	1138.3	1163.4	1141.5	1037.9	913.4	805.4
56°	731.2	830.5	926.5	1040.0	1090.2	1111.0	1132.8	1103.3	989.8	874.2	766.1
57°	681.0	761.7	843.6	940.7	1018.2	1034.6	1049.9	1033.5	923.3	818.5	722.5
58°	633.0	703.9	774.8	864.3	969.1	995.3	995.3	983.3	864.3	769.4	678.8
59°	600.2	662.4	722.5	806.5	877.4	891.6	900.3	893.8	807.6	721.4	643.9
60°	565.3	619.9	679.9	751.9	803.2	810.9	813.0	797.8	732.3	666.8	597.0
61°	532.6	583.9	633.0	696.3	743.2	753.0	753.0	733.4	678.8	615.5	559.9
62°	507.5	552.2	593.7	647.2	693.0	705.0	699.5	684.3	636.2	577.3	529.3
63°	484.5	526.0	563.1	606.8	643.9	654.8	649.3	638.4	597.0	546.8	504.2
64°	463.8	500.9	534.7	572.9	605.7	615.5	605.7	598.0	563.1	515.1	476.9
65°	454.0	488.9	518.4	551.1	576.2	581.7	575.1	563.1	534.7	495.5	458.4
66°	443.1	474.7	502.0	529.3	548.9	554.4	548.9	536.9	509.6	474.7	440.9
67°	431.1	460.5	486.7	511.8	528.2	531.5	528.2	517.3	490.0	457.3	425.6
68°	421.3	449.6	472.5	495.5	508.6	512.9	511.8	499.8	470.4	440.9	411.4
69°	412.5	438.7	462.7	481.3	494.4	495.5	495.5	484.5	457.3	428.9	400.5
70°	402.7	427.8	448.5	468.2	479.1	481.3	481.3	470.4	446.4	416.9	386.3
72.5°	383.1	404.9	426.7	442.0	452.9	456.2	459.4	448.5	421.3	394.0	365.6



REPORT NUMBER: P212609

CATALOG NUMBER: MPW-AF-D-U-ASYM-7050-800

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
75°	355.8	375.4	396.2	410.3	422.3	425.6	430.0	422.3	395.1	367.8	342.7
77.5°	328.5	348.1	368.9	386.3	399.4	403.8	407.1	399.4	372.1	347.0	319.8
80°	301.2	318.7	341.6	358.0	372.1	375.4	379.8	367.8	347.0	318.7	293.6
82.5°	276.1	292.5	313.2	329.6	343.8	349.2	347.0	338.3	315.4	290.3	268.5
85°	249.9	265.2	283.7	297.9	312.1	315.4	314.3	304.5	284.8	263.0	243.4
87.5°	228.1	242.3	257.6	267.4	280.5	282.7	281.6	271.7	255.4	237.9	220.4
90°	209.5	221.5	235.7	243.4	252.1	258.6	256.5	246.6	231.4	217.2	199.7
92.5°	196.4	205.2	216.1	223.7	229.2	233.5	233.5	224.8	211.7	197.5	184.4
95°	177.9	185.5	195.3	200.8	205.2	210.6	210.6	204.1	193.2	182.3	171.3
97.5°	157.2	162.6	168.1	172.4	175.7	180.1	177.9	174.6	168.1	159.3	151.7
100°	139.7	141.9	145.1	148.4	149.5	152.8	153.9	152.8	148.4	144.1	139.7
102.5°	124.4	126.6	126.6	127.7	127.7	126.6	127.7	126.6	125.5	126.6	122.2
105°	105.9	108.0	105.9	103.7	103.7	104.8	105.9	106.9	106.9	108.0	106.9
107.5°	93.9	93.9	92.8	90.6	90.6	90.6	90.6	90.6	92.8	93.9	92.8
110°	80.8	78.6	78.6	77.5	76.4	76.4	77.5	76.4	77.5	79.7	80.8
112.5°	66.6	65.5	64.4	63.3	61.1	62.2	64.4	64.4	66.6	67.7	67.7
115°	51.3	52.4	53.5	50.2	49.1	49.1	49.1	51.3	52.4	52.4	54.6
117.5°	43.7	44.7	43.7	43.7	42.6	42.6	43.7	43.7	45.8	48.0	48.0
120°	33.8	32.7	32.7	34.9	32.7	33.8	34.9	33.8	33.8	37.1	39.3
122.5°	27.3	28.4	28.4	27.3	28.4	29.5	28.4	29.5	28.4	29.5	30.6
125°	25.1	25.1	25.1	25.1	25.1	26.2	27.3	27.3	26.2	26.2	27.3
127.5°	18.6	19.6	19.6	20.7	20.7	20.7	21.8	21.8	20.7	20.7	20.7
130°	14.2	14.2	15.3	18.6	16.4	16.4	17.5	16.4	17.5	17.5	15.3
132.5°	5.5	6.5	6.5	7.6	8.7	9.8	9.8	9.8	8.7	9.8	8.7
135°	3.3	2.2	3.3	4.4	3.3	5.5	5.5	4.4	5.5	5.5	5.5
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°	2.2	1.1	1.1	1.1	1.1	0.0	0.0	0.0	1.1	2.2	1.1
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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CATALOG NUMBER: MPW-AF-D-U-ASYM-7050-800

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	389.6	389.6	389.6	389.6	389.6	389.6	389.6	389.6	389.6	389.6	389.6
2.5°	391.8	391.8	390.7	391.8	392.9	391.8	391.8	391.8	390.7	391.8	391.8
5°	395.1	395.1	396.2	395.1	396.2	396.2	396.2	395.1	394.0	394.0	391.8
7.5°	395.1	394.0	395.1	395.1	394.0	390.7	387.4	384.1	382.0	380.9	379.8
10°	414.7	411.4	407.1	401.6	396.2	390.7	386.3	380.9	375.4	373.2	368.9
12.5°	435.4	431.1	424.5	421.3	414.7	409.2	401.6	395.1	388.5	379.8	375.4
15°	451.8	448.5	443.1	436.5	426.7	418.0	409.2	401.6	395.1	389.6	384.1
17.5°	462.7	457.3	450.7	440.9	434.3	426.7	419.1	412.5	407.1	400.5	395.1
20°	468.2	461.6	455.1	449.6	443.1	435.4	430.0	422.3	415.8	407.1	401.6
22.5°	479.1	472.5	468.2	458.4	450.7	445.3	439.8	433.3	425.6	415.8	406.0
25°	494.4	486.7	478.0	470.4	464.9	458.4	449.6	437.6	428.9	420.2	413.6
27.5°	520.6	509.6	497.6	490.0	482.4	471.5	461.6	452.9	444.2	435.4	425.6
30°	542.4	524.9	512.9	503.1	488.9	480.2	470.4	460.5	450.7	443.1	436.5
32.5°	582.8	559.9	540.2	526.0	510.7	499.8	490.0	482.4	472.5	463.8	456.2
35°	619.9	593.7	569.7	547.8	533.7	522.7	510.7	499.8	490.0	481.3	474.7
37.5°	659.2	624.2	594.8	574.0	559.9	546.8	534.7	523.8	515.1	507.5	500.9
40°	708.3	662.4	628.6	605.7	588.2	574.0	560.9	548.9	541.3	533.7	528.2
42.5°	774.8	707.2	667.9	642.8	618.8	603.5	589.3	580.6	572.9	564.2	559.9
45°	819.6	748.6	693.0	661.3	641.7	628.6	619.9	610.1	607.9	599.1	591.5
46°	830.5	750.8	699.5	661.3	647.2	635.2	625.3	619.9	615.5	609.0	601.3
47°	829.4	748.6	696.3	661.3	648.2	639.5	631.9	630.8	622.1	615.5	612.2
48°	828.3	759.6	702.8	669.0	658.1	647.2	639.5	635.2	630.8	624.2	617.7
49°	826.1	755.2	703.9	675.5	665.7	653.7	645.0	639.5	634.1	628.6	623.1
50°	827.2	754.1	701.7	681.0	672.3	661.3	650.4	642.8	638.4	633.0	626.4
51°	821.8	746.5	696.3	679.9	673.3	659.2	649.3	643.9	640.6	635.2	629.7
52°	809.8	738.8	690.8	673.3	669.0	654.8	643.9	639.5	636.2	630.8	625.3
53°	778.1	708.3	663.5	651.5	646.1	636.2	633.0	630.8	628.6	625.3	618.8
54°	745.4	683.2	649.3	638.4	634.1	626.4	622.1	625.3	622.1	622.1	615.5
55°	718.1	660.3	633.0	623.1	618.8	612.2	607.9	609.0	609.0	607.9	601.3
56°	693.0	645.0	617.7	606.8	602.4	597.0	594.8	594.8	594.8	592.6	587.1
57°	660.3	619.9	602.4	594.8	590.4	585.0	585.0	583.9	581.7	578.4	576.2
58°	625.3	583.9	567.5	558.8	557.7	553.3	554.4	555.5	555.5	552.2	551.1
59°	590.4	554.4	538.0	532.6	528.2	528.2	529.3	530.4	531.5	531.5	528.2
60°	551.1	518.4	505.3	502.0	500.9	500.9	500.9	504.2	506.4	507.5	507.5
61°	521.7	492.2	479.1	475.8	475.8	475.8	476.9	480.2	481.3	482.4	481.3
62°	494.4	467.1	455.1	454.0	454.0	455.1	455.1	458.4	458.4	459.4	458.4
63°	468.2	444.2	435.4	432.2	434.3	434.3	433.3	436.5	439.8	438.7	436.5
64°	442.0	422.3	413.6	412.5	411.4	412.5	411.4	414.7	415.8	415.8	418.0
65°	428.9	410.3	400.5	398.3	400.5	399.4	402.7	403.8	404.9	406.0	404.9
66°	414.7	397.2	389.6	385.2	386.3	386.3	389.6	390.7	392.9	391.8	395.1
67°	402.7	384.1	376.5	374.3	374.3	374.3	375.4	378.7	379.8	382.0	382.0
68°	389.6	373.2	367.8	365.6	365.6	364.5	365.6	368.9	370.0	372.1	373.2
69°	378.7	363.4	358.0	354.7	356.9	354.7	355.8	361.2	360.1	362.3	368.9
70°	368.9	353.6	349.2	349.2	347.0	348.1	348.1	350.3	351.4	355.8	354.7
72.5°	350.3	337.2	330.7	331.8	331.8	331.8	332.9	335.0	336.1	339.4	341.6



REPORT NUMBER: P212609
CATALOG NUMBER: MPW-AF-D-U-ASYM-7050-800

REPORT N
CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°	
75°	324.1	313.2	309.9	309.9	309.9	312.1	312.1	313.2	318.7	320.8	320.8	0°
77.5°	305.6	294.7	291.4	291.4	293.6	294.7	296.8	299.0	301.2	305.6	306.7	2.5°
80°	280.5	271.7	270.6	271.7	273.9	276.1	278.3	283.7	285.9	287.0	293.6	5°
82.5°	258.6	249.9	249.9	252.1	255.4	257.6	261.9	264.1	266.3	269.6	271.7	7.5°
85°	233.5	227.0	229.2	231.4	236.8	237.9	240.1	244.5	247.7	248.8	252.1	10°
87.5°	211.7	208.4	209.5	212.8	216.1	221.5	223.7	225.9	230.3	232.5	232.5	12.5°
90°	194.3	191.0	194.3	198.6	201.9	204.1	207.4	209.5	212.8	213.9	215.0	15°
92.5°	180.1	177.9	181.2	185.5	188.8	189.9	192.1	197.5	198.6	200.8	200.8	17.5°
95°	167.0	165.9	169.2	172.4	175.7	179.0	181.2	184.4	187.7	188.8	188.8	20°
97.5°	148.4	147.3	150.6	157.2	158.2	159.3	161.5	163.7	168.1	169.2	168.1	22.5°
100°	138.6	137.5	138.6	143.0	144.1	148.4	149.5	152.8	153.9	156.1	155.0	25°
102.5°	120.0	121.1	123.3	123.3	127.7	127.7	131.0	133.1	134.2	137.5	141.9	27.5°
105°	106.9	106.9	108.0	108.0	110.2	111.3	111.3	114.6	116.8	116.8	117.9	30°
107.5°	93.9	93.9	94.9	96.0	97.1	97.1	98.2	100.4	100.4	102.6	102.6	32.5°
110°	80.8	82.9	81.8	81.8	81.8	84.0	85.1	85.1	86.2	87.3	87.3	35°
112.5°	68.8	68.8	68.8	69.8	70.9	70.9	72.0	72.0	73.1	74.2	74.2	37.5°
115°	55.7	55.7	56.7	55.7	54.6	55.7	55.7	56.7	57.8	56.7	63.3	40°
117.5°	49.1	48.0	46.9	48.0	46.9	46.9	46.9	48.0	49.1	49.1	51.3	42.5°
120°	36.0	36.0	36.0	36.0	38.2	36.0	36.0	34.9	37.1	36.0	37.1	45°
122.5°	30.6	29.5	29.5	29.5	29.5	29.5	29.5	30.6	29.5	30.6	29.5	46°
125°	26.2	26.2	28.4	26.2	25.1	26.2	26.2	26.2	26.2	27.3	31.6	47°
127.5°	20.7	21.8	20.7	20.7	20.7	21.8	20.7	20.7	21.8	22.9	21.8	48°
130°	17.5	15.3	16.4	16.4	16.4	16.4	16.4	16.4	17.5	19.6	18.6	49°
132.5°	8.7	8.7	8.7	9.8	10.9	10.9	9.8	10.9	10.9	12.0	10.9	50°
135°	6.5	7.6	5.5	5.5	7.6	6.5	8.7	7.6	7.6	7.6	6.5	51°
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52°
140°	2.2	2.2	1.1	1.1	1.1	2.2	1.1	2.2	1.1	2.2	2.2	53°
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54°
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55°
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56°
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57°
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	58°
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59°
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	61°
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62°
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63°
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	64°
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66°
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67°
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	68°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	69°
												70°
												72.5°



NUMBER: P212609

NUMBER: MPW-AF-D-U-ASYM-7050-800

REPORT NUMBER: P

CATALOG NUMBER:

DISTRIBUTION (continued):

165°	170°	175°	180°
389.6	389.6	389.6	389.6
391.8	389.6	390.7	390.7
391.8	391.8	391.8	389.6
377.6	378.7	377.6	377.6
366.7	364.5	363.4	362.3
373.2	372.1	371.1	371.1
380.9	378.7	377.6	377.6
389.6	387.4	384.1	388.5
397.2	394.0	390.7	390.7
399.4	396.2	392.9	391.8
404.9	399.4	396.2	396.2
419.1	413.6	411.4	410.3
428.9	424.5	419.1	418.0
449.6	445.3	443.1	440.9
470.4	466.0	463.8	461.6
497.6	491.1	487.8	486.7
523.8	518.4	515.1	518.4
554.4	548.9	546.8	544.6
587.1	580.6	574.0	574.0
595.9	590.4	587.1	586.0
604.6	599.1	592.6	590.4
614.4	606.8	601.3	601.3
616.6	611.1	605.7	603.5
621.0	616.6	610.1	609.0
623.1	616.6	610.1	609.0
619.9	614.4	609.0	607.9
615.5	609.0	602.4	606.8
610.1	604.6	599.1	598.0
598.0	592.6	587.1	587.1
583.9	579.5	574.0	571.9
572.9	564.2	556.6	557.7
545.7	541.3	535.8	534.7
523.8	522.7	519.5	518.4
505.3	502.0	499.8	498.7
478.0	478.0	473.6	472.5
457.3	455.1	452.9	452.9
438.7	436.5	435.4	436.5
418.0	419.1	415.8	418.0
407.1	408.2	407.1	404.9
395.1	396.2	394.0	395.1
385.2	385.2	384.1	383.1
376.5	376.5	374.3	374.3
365.6	367.8	366.7	365.6
359.0	359.0	360.1	356.9
342.7	344.9	344.9	344.9

CANDELA DISTRIBUTION:

	165°
75°	323.0
77.5°	308.8
80°	291.4
82.5°	272.8
85°	253.2
87.5°	232.5
90°	217.2
92.5°	200.8
95°	191.0
97.5°	170.2
100°	157.2
102.5°	137.5
105°	117.9
107.5°	102.6
110°	87.3
112.5°	75.3
115°	58.9
117.5°	50.2
120°	38.2
122.5°	31.6
125°	28.4
127.5°	21.8
130°	17.5
132.5°	10.9
135°	8.7
137.5°	0.0
140°	2.2
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0



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MPW-AF-D-U-ASYM-7050-800

TION (continued):

[illegible]

(END OF REPORT)