

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: P212608

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P212608
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-800
Description: WOODBRIDGE LED POST-TOP LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND ASYMMETRIC OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3493.4 lumens
Efficiency: N/A
Efficacy: 79.4 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 (A_{in}): 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

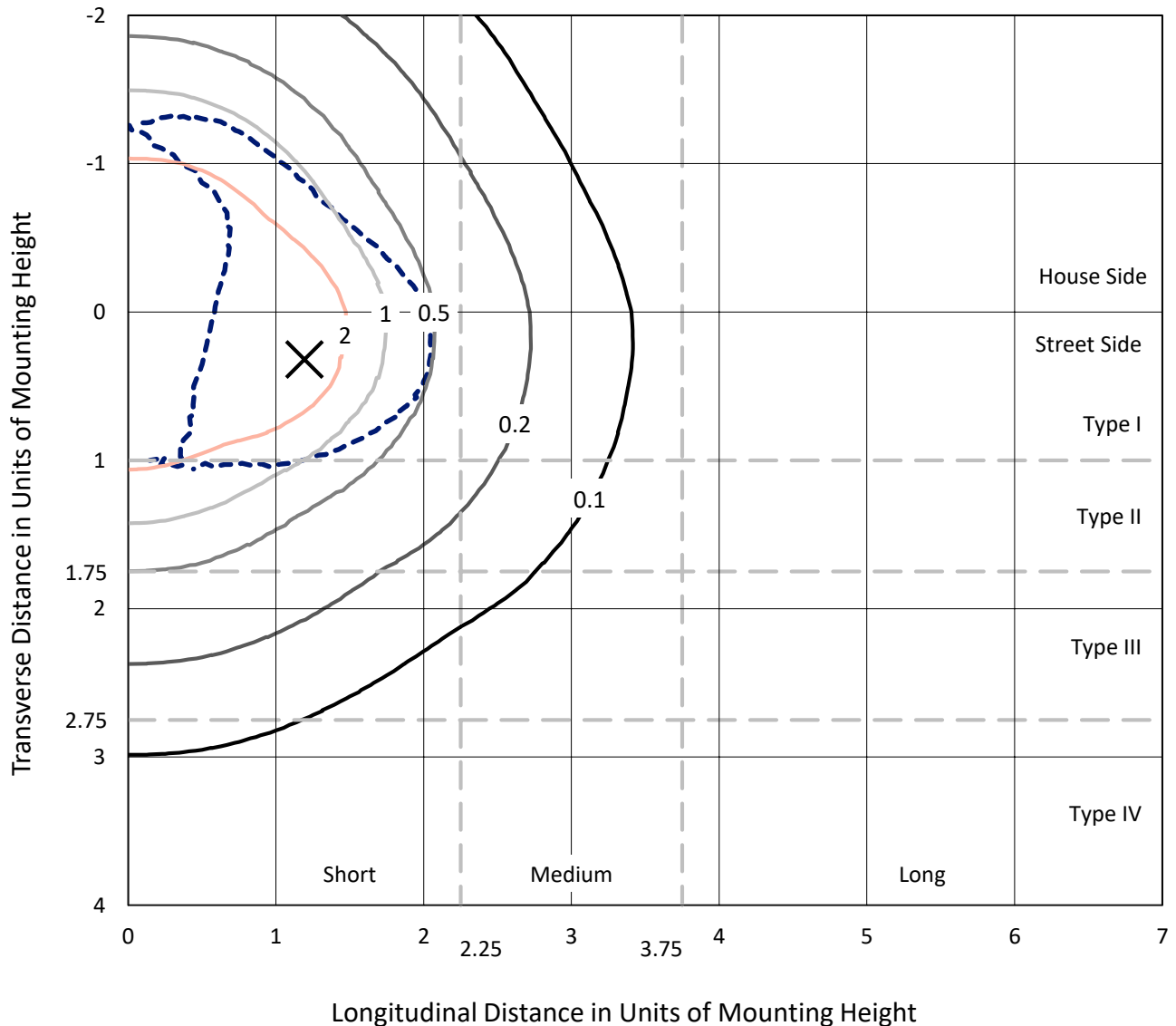


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

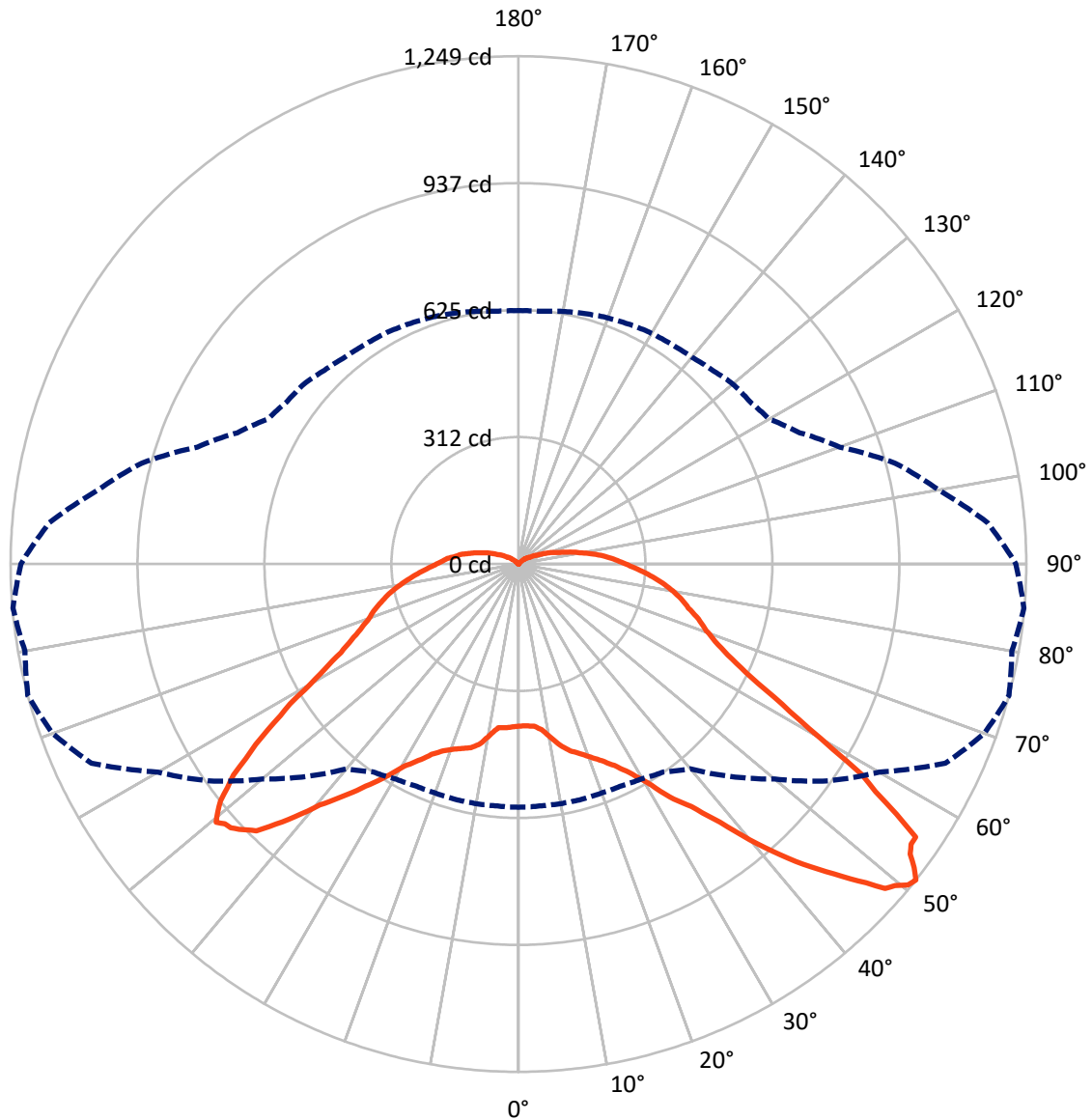


Based on 10 foot mounting height. Maximum calculated value = 4.3 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 51-Deg Vertical

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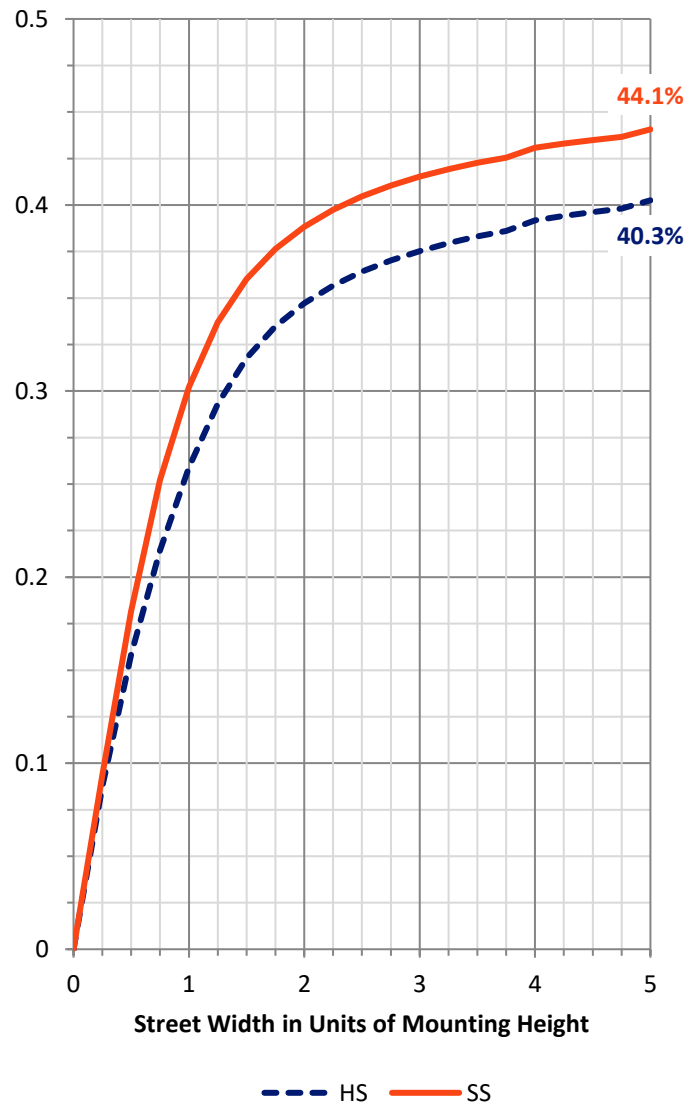
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1486.0	207.1	1693.1
	% Fixture	42.5	5.9	48.5
Street Side	Lumens	1608.1	192.2	1800.3
	% Fixture	46.0	5.5	51.5
Total	Lumens	3094.1	399.3	3493.4
	% Fixture	88.6	11.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.3	1.1
10°-20°	126.2	3.6
20°-30°	231.1	6.6
30°-40°	381.3	10.9
40°-50°	593.4	17.0
50°-60°	640.9	18.3
60°-70°	446.3	12.8
70°-80°	360.3	10.3
80°-90°	276.2	7.9
90°-100°	197.0	5.6
100°-110°	118.8	3.4
110°-120°	56.6	1.6
120°-130°	22.5	0.6
130°-140°	4.3	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°	3094.1	88.6
0°-180°	3493.4	100.0



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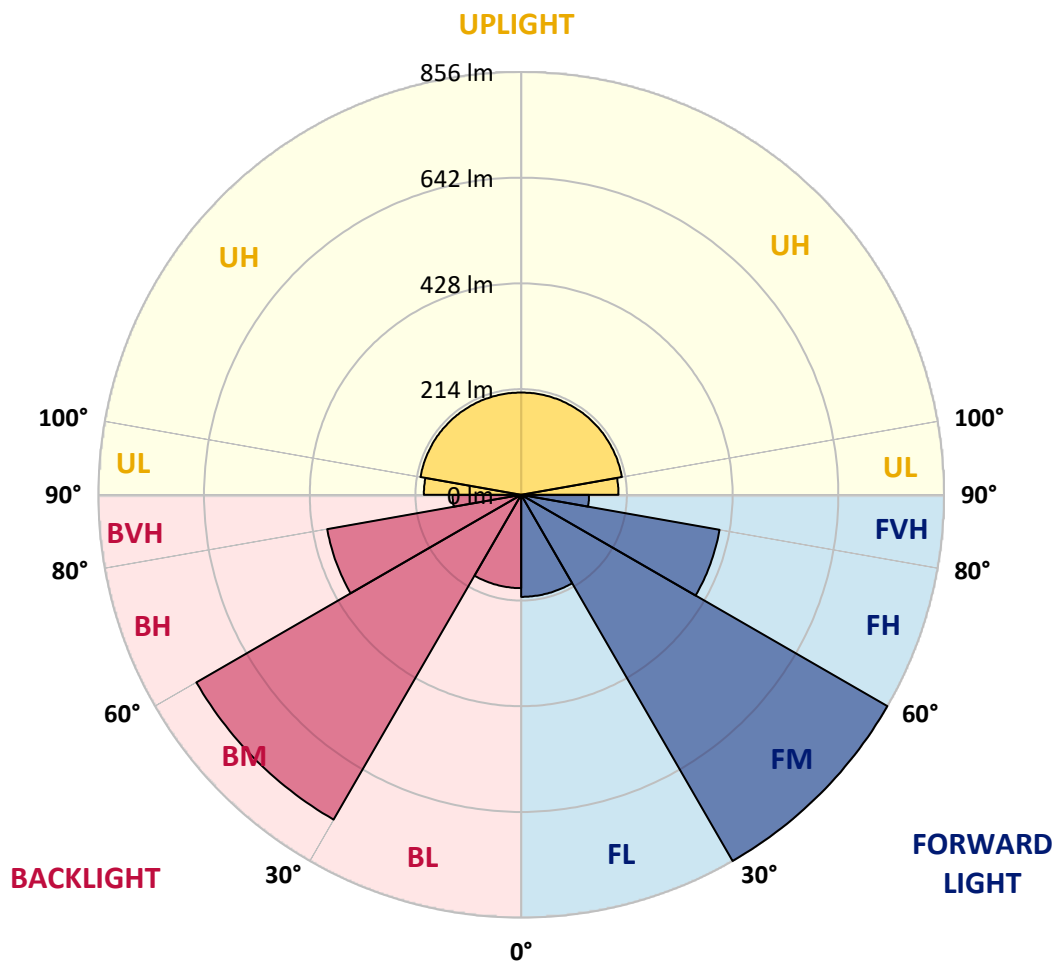
CATALOG NUMBER: MPW-AF-D-U-ASYM-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	206.6	5.9			
FM (30°-60°)	856.2	24.5			
FH (60°-80°)	407.8	11.7			G0/660
FVH (80°-90°)	137.5	3.9			G2/225
BL (0°-30°)	189.0	5.4	B1/500		
BM (30°-60°)	759.5	21.7	B1/1000		
BH (60°-80°)	398.8	11.4	B1/500		G1/500
BVH (80°-90°)	138.8	4.0			G2/225
UL (90°-100°)	197.0	5.6		U3/500	
UH (100°-180°)	207.1	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°	398.5	398.5	398.5	398.5	398.5	398.5	398.5	398.5	398.5	398.5	398.5
2.5°	396.3	396.3	396.3	396.3	397.4	396.3	397.4	396.3	397.4	397.4	398.5
5°	382.9	382.9	385.1	385.1	386.3	387.4	389.6	389.6	391.9	392.9	394.0
7.5°	389.6	390.8	390.8	389.6	390.8	392.9	394.0	396.3	399.7	401.9	405.3
10°	403.0	401.9	403.0	403.0	404.2	406.3	409.7	414.2	416.4	420.8	425.3
12.5°	418.6	418.6	420.8	420.8	423.1	426.5	432.0	434.2	437.6	443.2	447.6
15°	437.6	437.6	438.7	439.9	442.1	446.5	451.0	454.4	456.6	459.9	463.3
17.5°	458.8	461.0	462.2	464.4	465.5	468.9	471.1	472.2	473.3	474.4	477.8
20°	476.7	476.7	478.9	481.2	483.3	489.0	490.1	490.1	489.0	491.2	493.5
22.5°	476.7	475.6	481.2	489.0	494.6	500.1	503.5	505.7	508.0	506.9	510.1
25°	466.7	467.8	473.3	482.3	494.6	504.6	513.5	519.1	524.7	525.8	530.3
27.5°	481.2	481.2	486.7	494.6	504.6	515.8	526.9	538.1	545.9	553.7	559.3
30°	493.5	495.6	502.4	512.4	520.3	531.4	543.7	557.1	568.2	578.3	586.0
32.5°	515.8	516.9	521.3	528.0	539.2	552.6	567.1	582.8	599.4	611.7	624.1
35°	540.3	536.9	536.9	542.6	551.5	563.7	580.5	600.6	631.9	648.7	665.3
37.5°	559.3	559.3	560.4	563.7	568.2	577.1	592.8	617.4	654.2	692.1	708.9
40°	588.3	588.3	587.2	590.5	595.1	602.8	616.2	639.7	671.0	733.5	777.0
42.5°	609.6	608.5	609.6	614.0	615.1	620.7	634.1	659.8	693.3	751.4	827.3
45°	621.9	621.9	620.7	623.0	626.3	633.0	641.9	667.6	711.2	770.3	848.4
46°	623.0	623.0	621.9	624.1	627.4	633.0	640.8	665.3	713.4	775.9	849.6
47°	621.9	619.6	619.6	620.7	623.0	627.4	635.3	656.4	707.8	766.9	850.7
48°	618.5	617.4	618.5	620.7	620.7	626.3	633.0	653.1	701.1	765.8	865.2
49°	616.2	616.2	617.4	618.5	620.7	624.1	633.0	651.9	691.0	764.8	856.2
50°	611.7	611.7	612.8	615.1	614.0	615.1	624.1	638.5	674.3	755.8	845.1
51°	598.4	597.3	598.4	599.4	599.4	601.7	609.6	624.1	657.6	739.1	822.8
52°	581.6	581.6	582.8	585.0	586.0	588.3	595.1	608.5	639.7	721.2	802.7
53°	557.1	559.3	564.9	564.9	567.1	570.5	578.3	591.7	620.7	691.0	777.0
54°	544.8	547.0	552.6	556.0	558.2	564.9	572.8	583.9	608.5	667.6	768.0
55°	516.9	519.1	523.5	529.2	531.4	538.1	545.9	559.3	585.0	638.5	727.8
56°	495.6	496.7	502.4	505.7	506.9	510.1	516.9	525.8	548.1	591.7	676.5
57°	476.7	474.4	477.8	482.3	483.3	486.7	493.5	500.1	519.1	560.4	635.3
58°	448.8	444.3	448.8	452.1	454.4	457.7	464.4	469.9	486.7	524.7	590.5
59°	426.5	428.7	433.1	436.5	438.7	442.1	445.4	452.1	466.7	496.7	559.3
60°	410.8	411.9	414.2	417.6	419.7	423.1	426.5	432.0	445.4	472.2	528.0
61°	397.4	397.4	400.8	404.2	404.2	407.4	409.7	414.2	426.5	448.8	499.0
62°	386.3	384.0	387.4	391.9	391.9	395.2	396.3	400.8	410.8	429.8	475.6
63°	372.9	374.0	375.1	379.6	379.6	382.9	382.9	388.5	395.2	413.1	454.4
64°	360.6	364.0	362.8	366.2	367.2	368.4	370.6	374.0	380.6	398.5	435.4
65°	356.1	356.1	359.5	360.6	361.7	364.0	366.2	369.5	376.2	390.8	429.8
66°	349.4	349.4	351.7	353.9	353.9	356.1	359.5	362.8	368.4	381.8	417.6
67°	342.7	342.7	343.8	346.1	346.1	347.2	350.6	353.9	360.6	374.0	407.4
68°	336.0	336.0	337.2	338.3	338.3	339.4	342.7	347.2	353.9	366.2	398.5
69°	331.5	327.1	330.4	330.4	330.4	332.7	333.8	338.3	347.2	360.6	389.6
70°	320.4	321.5	322.6	323.8	323.8	322.6	323.8	329.3	337.2	350.6	379.6
72.5°	305.9	307.0	308.1	308.1	307.0	307.0	308.1	311.5	318.1	331.5	358.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
75°	284.7	286.9	286.9	286.9	284.7	284.7	285.8	288.1	292.5	304.7	328.2
77.5°	271.3	270.2	271.3	270.2	269.0	269.0	267.9	269.0	272.4	283.6	304.7
80°	255.6	252.3	253.4	251.1	251.1	250.1	247.9	247.9	251.1	264.5	281.3
82.5°	235.6	234.5	235.6	234.5	232.2	230.0	227.7	228.8	232.2	237.8	255.6
85°	217.7	219.9	218.8	216.6	213.2	211.0	208.8	209.9	211.0	215.4	232.2
87.5°	204.3	203.2	204.3	200.9	198.8	196.5	194.3	193.1	194.3	198.8	207.7
90°	192.0	192.0	190.9	189.8	186.5	185.4	182.0	180.9	180.9	185.4	196.5
92.5°	183.1	182.0	179.7	179.7	175.2	172.0	170.8	169.7	168.6	173.1	183.1
95°	168.6	167.5	167.5	166.3	163.0	160.8	158.6	157.4	158.6	160.8	169.7
97.5°	147.4	150.7	147.4	147.4	144.0	142.9	141.8	139.5	139.5	142.9	149.6
100°	138.4	137.3	136.2	135.1	134.0	132.9	131.8	130.6	130.6	134.0	138.4
102.5°	125.0	121.7	121.7	117.2	117.2	117.2	116.1	116.1	117.2	121.7	123.9
105°	105.0	103.8	103.8	102.7	102.7	101.6	101.6	100.5	102.7	103.8	108.3
107.5°	89.3	89.3	89.3	88.2	88.2	88.2	88.2	88.2	88.2	90.4	93.8
110°	75.9	74.8	75.9	74.8	75.9	74.8	74.8	74.8	77.0	78.2	83.7
112.5°	60.3	61.4	62.5	61.4	61.4	62.5	62.5	62.5	63.6	64.8	67.0
115°	50.2	46.9	46.9	48.0	46.9	48.0	48.0	50.2	50.2	52.5	52.5
117.5°	39.1	39.1	39.1	40.2	40.2	40.2	41.3	42.5	42.5	43.6	44.7
120°	29.1	30.2	27.9	31.3	29.1	30.2	30.2	31.3	34.6	32.3	33.5
122.5°	23.4	23.4	23.4	24.6	24.6	24.6	24.6	25.7	25.7	25.7	26.8
125°	19.0	20.0	21.2	21.2	20.0	21.2	21.2	21.2	22.3	24.6	24.6
127.5°	15.7	14.5	15.7	15.7	16.8	16.8	15.7	15.7	16.8	16.8	17.9
130°	11.2	11.2	11.2	11.2	11.2	11.2	11.2	12.3	12.3	12.3	12.3
132.5°	3.4	4.5	4.5	4.5	4.5	5.6	4.5	5.6	5.6	4.5	5.6
135°	1.1	1.1	1.1	1.1	1.1	2.3	2.3	3.4	2.3	1.1	2.3
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	2.3	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°	398.5	398.5	398.5	398.5	398.5	398.5	398.5	398.5	398.5	398.5	398.5
2.5°	398.5	398.5	399.7	398.5	398.5	398.5	399.7	399.7	399.7	400.8	400.8
5°	394.0	397.4	397.4	399.7	400.8	401.9	403.0	401.9	403.0	403.0	404.2
7.5°	406.3	406.3	409.7	409.7	410.8	410.8	411.9	408.6	408.6	407.4	405.3
10°	429.8	432.0	433.1	434.2	433.1	432.0	429.8	429.8	429.8	427.6	426.5
12.5°	449.9	454.4	456.6	458.8	457.7	457.7	455.5	454.4	454.4	454.4	452.1
15°	467.8	471.1	474.4	476.7	476.7	475.6	476.7	473.3	473.3	469.9	466.7
17.5°	482.3	486.7	489.0	492.3	490.1	489.0	487.8	484.5	482.3	478.9	474.4
20°	497.9	501.2	504.6	508.0	506.9	504.6	501.2	497.9	493.5	490.1	483.3
22.5°	514.6	519.1	523.5	525.8	525.8	523.5	519.1	515.8	509.0	503.5	495.6
25°	534.7	540.3	545.9	548.1	549.2	547.0	540.3	535.8	530.3	522.4	514.6
27.5°	564.9	572.8	578.3	580.5	580.5	579.4	573.8	569.4	560.4	553.7	542.6
30°	593.9	607.3	617.4	627.4	623.0	618.5	615.1	608.5	597.3	586.0	571.6
32.5°	640.8	657.6	675.5	683.2	683.2	679.9	672.1	665.3	656.4	639.7	617.4
35°	687.7	708.9	730.1	733.5	732.3	731.2	724.6	724.6	715.6	688.8	663.1
37.5°	733.5	774.8	799.3	807.1	806.0	806.0	796.0	792.6	773.7	744.6	714.4
40°	789.3	847.3	895.3	908.7	905.4	899.8	886.4	879.7	855.2	810.5	768.0
42.5°	857.3	918.8	989.1	1012.5	1000.2	990.2	990.2	971.3	948.9	902.0	845.1
45°	916.6	967.9	1071.7	1106.3	1087.4	1067.2	1075.0	1067.2	1040.4	981.3	919.9
46°	931.1	993.6	1115.2	1148.8	1125.3	1104.1	1113.1	1101.8	1072.9	1010.4	933.2
47°	952.3	1017.0	1147.6	1186.7	1161.0	1128.6	1151.0	1136.5	1098.5	1032.7	947.8
48°	962.3	1036.0	1178.8	1214.7	1204.5	1159.9	1185.6	1161.0	1133.1	1048.3	960.0
49°	956.8	1033.8	1181.1	1229.2	1217.9	1187.9	1205.6	1180.0	1129.7	1063.9	964.5
50°	952.3	1032.7	1176.7	1234.7	1241.5	1221.3	1221.3	1202.4	1140.9	1050.5	977.9
51°	930.0	1023.7	1158.8	1219.1	1249.2	1232.5	1248.1	1223.6	1158.8	1049.3	958.9
52°	897.5	1009.2	1139.8	1205.6	1226.9	1216.8	1245.9	1235.8	1166.6	1049.3	936.6
53°	867.5	994.7	1105.2	1182.2	1199.0	1181.1	1204.5	1211.3	1132.0	1039.3	902.0
54°	837.3	952.3	1091.8	1200.1	1186.7	1163.3	1195.6	1194.5	1111.9	984.6	871.9
55°	796.0	896.4	1037.1	1156.5	1185.6	1164.4	1190.1	1167.7	1061.7	934.4	823.9
56°	748.0	849.6	947.8	1063.9	1115.2	1136.5	1158.8	1128.6	1012.5	894.3	783.7
57°	696.6	779.2	863.0	962.3	1041.6	1058.3	1074.0	1057.2	944.5	837.3	739.1
58°	647.5	720.1	792.6	884.1	991.3	1018.1	1018.1	1005.9	884.1	787.1	694.4
59°	614.0	677.6	739.1	825.0	897.5	912.1	921.0	914.3	826.1	738.0	658.7
60°	578.3	634.1	695.5	769.2	821.6	829.5	831.7	816.1	749.1	682.1	610.7
61°	544.8	597.3	647.5	712.3	760.3	770.3	770.3	750.2	694.4	629.6	572.8
62°	519.1	564.9	607.3	662.1	708.9	721.2	715.6	700.0	650.8	590.5	541.4
63°	495.6	538.1	576.0	620.7	658.7	669.8	664.2	653.1	610.7	559.3	515.8
64°	474.4	512.4	547.0	586.0	619.6	629.6	619.6	611.7	576.0	526.9	487.8
65°	464.4	500.1	530.3	563.7	589.4	595.1	588.3	576.0	547.0	506.9	468.9
66°	453.3	485.6	513.5	541.4	561.5	567.1	561.5	549.2	521.3	485.6	451.0
67°	441.0	471.1	497.9	523.5	540.3	543.7	540.3	529.2	501.2	467.8	435.4
68°	431.0	459.9	483.3	506.9	520.3	524.7	523.5	511.3	481.2	451.0	420.8
69°	422.0	448.8	473.3	492.3	505.7	506.9	506.9	495.6	467.8	438.7	409.7
70°	411.9	437.6	458.8	478.9	490.1	492.3	492.3	481.2	456.6	426.5	395.2
72.5°	391.9	414.2	436.5	452.1	463.3	466.7	469.9	458.8	431.0	403.0	374.0



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

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
75°	364.0	384.0	405.3	419.7	432.0	435.4	439.9	432.0	404.2	376.2	350.6
77.5°	336.0	356.1	377.4	395.2	408.6	413.1	416.4	408.6	380.6	355.0	327.1
80°	308.1	326.0	349.4	366.2	380.6	384.0	388.5	376.2	355.0	326.0	300.3
82.5°	282.4	299.2	320.4	337.2	351.7	357.2	355.0	346.1	322.6	297.0	274.7
85°	255.6	271.3	290.2	304.7	319.3	322.6	321.5	311.5	291.3	269.0	249.0
87.5°	233.3	247.9	263.5	273.5	286.9	289.2	288.1	277.9	261.3	243.4	225.5
90°	214.3	226.6	241.1	249.0	257.9	264.5	262.4	252.3	236.7	222.2	204.3
92.5°	200.9	209.9	221.1	228.8	234.5	238.9	238.9	230.0	216.6	202.0	188.6
95°	182.0	189.8	199.8	205.4	209.9	215.4	215.4	208.8	197.6	186.5	175.2
97.5°	160.8	166.3	172.0	176.4	179.7	184.2	182.0	178.6	172.0	163.0	155.2
100°	142.9	145.2	148.4	151.8	152.9	156.3	157.4	156.3	151.8	147.4	142.9
102.5°	127.3	129.5	129.5	130.6	130.6	129.5	130.6	129.5	128.4	129.5	125.0
105°	108.3	110.5	108.3	106.1	106.1	107.2	108.3	109.4	109.4	110.5	109.4
107.5°	96.1	96.1	94.9	92.7	92.7	92.7	92.7	92.7	94.9	96.1	94.9
110°	82.7	80.4	80.4	79.3	78.2	78.2	79.3	78.2	79.3	81.5	82.7
112.5°	68.1	67.0	65.9	64.8	62.5	63.6	65.9	65.9	68.1	69.3	69.3
115°	52.5	53.6	54.7	51.4	50.2	50.2	50.2	52.5	53.6	53.6	55.9
117.5°	44.7	45.7	44.7	44.7	43.6	43.6	44.7	44.7	46.9	49.1	49.1
120°	34.6	33.5	33.5	35.7	33.5	34.6	35.7	34.6	34.6	38.0	40.2
122.5°	27.9	29.1	29.1	27.9	29.1	30.2	29.1	30.2	29.1	30.2	31.3
125°	25.7	25.7	25.7	25.7	25.7	26.8	27.9	27.9	26.8	26.8	27.9
127.5°	19.0	20.0	20.0	21.2	21.2	21.2	22.3	22.3	21.2	21.2	21.2
130°	14.5	14.5	15.7	19.0	16.8	16.8	17.9	16.8	17.9	17.9	15.7
132.5°	5.6	6.6	6.6	7.8	8.9	10.0	10.0	10.0	8.9	10.0	8.9
135°	3.4	2.3	3.4	4.5	3.4	5.6	5.6	4.5	5.6	5.6	5.6
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°	2.3	1.1	1.1	1.1	1.1	0.0	0.0	0.0	1.1	2.3	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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	398.5	398.5	398.5	398.5	398.5	398.5	398.5	398.5	398.5	398.5	398.5
2.5°	400.8	400.8	399.7	400.8	401.9	400.8	400.8	400.8	399.7	400.8	400.8
5°	404.2	404.2	405.3	404.2	405.3	405.3	405.3	404.2	403.0	403.0	400.8
7.5°	404.2	403.0	404.2	404.2	403.0	399.7	396.3	392.9	390.8	389.6	388.5
10°	424.2	420.8	416.4	410.8	405.3	399.7	395.2	389.6	384.0	381.8	377.4
12.5°	445.4	441.0	434.2	431.0	424.2	418.6	410.8	404.2	397.4	388.5	384.0
15°	462.2	458.8	453.3	446.5	436.5	427.6	418.6	410.8	404.2	398.5	392.9
17.5°	473.3	467.8	461.0	451.0	444.3	436.5	428.7	422.0	416.4	409.7	404.2
20°	478.9	472.2	465.5	459.9	453.3	445.4	439.9	432.0	425.3	416.4	410.8
22.5°	490.1	483.3	478.9	468.9	461.0	455.5	449.9	443.2	435.4	425.3	415.3
25°	505.7	497.9	489.0	481.2	475.6	468.9	459.9	447.6	438.7	429.8	423.1
27.5°	532.5	521.3	509.0	501.2	493.5	482.3	472.2	463.3	454.4	445.4	435.4
30°	554.8	536.9	524.7	514.6	500.1	491.2	481.2	471.1	461.0	453.3	446.5
32.5°	596.2	572.8	552.6	538.1	522.4	511.3	501.2	493.5	483.3	474.4	466.7
35°	634.1	607.3	582.8	560.4	545.9	534.7	522.4	511.3	501.2	492.3	485.6
37.5°	674.3	638.5	608.5	587.2	572.8	559.3	547.0	535.8	526.9	519.1	512.4
40°	724.6	677.6	643.0	619.6	601.7	587.2	573.8	561.5	553.7	545.9	540.3
42.5°	792.6	723.4	683.2	657.6	633.0	617.4	602.8	593.9	586.0	577.1	572.8
45°	838.4	765.8	708.9	676.5	656.4	643.0	634.1	624.1	621.9	612.8	605.1
46°	849.6	768.0	715.6	676.5	662.1	649.8	639.7	634.1	629.6	623.0	615.1
47°	848.4	765.8	712.3	676.5	663.1	654.2	646.4	645.3	636.4	629.6	626.3
48°	847.3	777.0	718.9	684.4	673.2	662.1	654.2	649.8	645.3	638.5	631.9
49°	845.1	772.5	720.1	691.0	681.0	668.7	659.8	654.2	648.7	643.0	637.4
50°	846.2	771.4	717.8	696.6	687.7	676.5	665.3	657.6	653.1	647.5	640.8
51°	840.7	763.6	712.3	695.5	688.8	674.3	664.2	658.7	655.3	649.8	644.2
52°	828.4	755.8	706.7	688.8	684.4	669.8	658.7	654.2	650.8	645.3	639.7
53°	796.0	724.6	678.7	666.5	660.9	650.8	647.5	645.3	643.0	639.7	633.0
54°	762.5	698.9	664.2	653.1	648.7	640.8	636.4	639.7	636.4	636.4	629.6
55°	734.6	675.5	647.5	637.4	633.0	626.3	621.9	623.0	623.0	621.9	615.1
56°	708.9	659.8	631.9	620.7	616.2	610.7	608.5	608.5	608.5	606.2	600.6
57°	675.5	634.1	616.2	608.5	604.0	598.4	598.4	597.3	595.1	591.7	589.4
58°	639.7	597.3	580.5	571.6	570.5	566.0	567.1	568.2	568.2	564.9	563.7
59°	604.0	567.1	550.3	544.8	540.3	540.3	541.4	542.6	543.7	543.7	540.3
60°	563.7	530.3	516.9	513.5	512.4	512.4	512.4	515.8	518.0	519.1	519.1
61°	533.7	503.5	490.1	486.7	486.7	486.7	487.8	491.2	492.3	493.5	492.3
62°	505.7	477.8	465.5	464.4	464.4	465.5	465.5	468.9	468.9	469.9	468.9
63°	478.9	454.4	445.4	442.1	444.3	444.3	443.2	446.5	449.9	448.8	446.5
64°	452.1	432.0	423.1	422.0	420.8	422.0	420.8	424.2	425.3	425.3	427.6
65°	438.7	419.7	409.7	407.4	409.7	408.6	411.9	413.1	414.2	415.3	414.2
66°	424.2	406.3	398.5	394.0	395.2	395.2	398.5	399.7	401.9	400.8	404.2
67°	411.9	392.9	385.1	382.9	382.9	382.9	384.0	387.4	388.5	390.8	390.8
68°	398.5	381.8	376.2	374.0	374.0	372.9	374.0	377.4	378.5	380.6	381.8
69°	387.4	371.7	366.2	362.8	365.1	362.8	364.0	369.5	368.4	370.6	377.4
70°	377.4	361.7	357.2	357.2	355.0	356.1	356.1	358.3	359.5	364.0	362.8
72.5°	358.3	344.9	338.3	339.4	339.4	339.4	340.5	342.7	343.8	347.2	349.4



REPORT NUMBER: P212608
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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°	
75°	331.5	320.4	317.0	317.0	317.0	319.3	319.3	320.4	326.0	328.2	328.2	0°
77.5°	312.6	301.5	298.1	298.1	300.3	301.5	303.6	305.9	308.1	312.6	313.7	2.5°
80°	286.9	277.9	276.8	277.9	280.2	282.4	284.7	290.2	292.5	293.6	300.3	5°
82.5°	264.5	255.6	255.6	257.9	261.3	263.5	267.9	270.2	272.4	275.8	277.9	7.5°
85°	238.9	232.2	234.5	236.7	242.2	243.4	245.6	250.1	253.4	254.5	257.9	10°
87.5°	216.6	213.2	214.3	217.7	221.1	226.6	228.8	231.1	235.6	237.8	237.8	12.5°
90°	198.8	195.4	198.8	203.2	206.5	208.8	212.2	214.3	217.7	218.8	219.9	15°
92.5°	184.2	182.0	185.4	189.8	193.1	194.3	196.5	202.0	203.2	205.4	205.4	17.5°
95°	170.8	169.7	173.1	176.4	179.7	183.1	185.4	188.6	192.0	193.1	193.1	20°
97.5°	151.8	150.7	154.1	160.8	161.8	163.0	165.2	167.5	172.0	173.1	172.0	22.5°
100°	141.8	140.7	141.8	146.3	147.4	151.8	152.9	156.3	157.4	159.7	158.6	25°
102.5°	122.8	123.9	126.1	126.1	130.6	130.6	134.0	136.2	137.3	140.7	145.2	27.5°
105°	109.4	109.4	110.5	110.5	112.7	113.9	113.9	117.2	119.5	119.5	120.6	30°
107.5°	96.1	96.1	97.1	98.2	99.3	99.3	100.5	102.7	102.7	105.0	105.0	32.5°
110°	82.7	84.8	83.7	83.7	83.7	85.9	87.1	87.1	88.2	89.3	89.3	35°
112.5°	70.4	70.4	70.4	71.4	72.5	72.5	73.7	73.7	74.8	75.9	75.9	37.5°
115°	57.0	57.0	58.0	57.0	55.9	57.0	57.0	58.0	59.1	58.0	64.8	40°
117.5°	50.2	49.1	48.0	49.1	48.0	48.0	48.0	49.1	50.2	50.2	52.5	42.5°
120°	36.8	36.8	36.8	36.8	39.1	36.8	36.8	35.7	38.0	36.8	38.0	45°
122.5°	31.3	30.2	30.2	30.2	30.2	30.2	30.2	31.3	30.2	31.3	30.2	46°
125°	26.8	26.8	29.1	26.8	25.7	26.8	26.8	26.8	26.8	27.9	32.3	47°
127.5°	21.2	22.3	21.2	21.2	21.2	22.3	21.2	21.2	22.3	23.4	22.3	48°
130°	17.9	15.7	16.8	16.8	16.8	16.8	16.8	16.8	17.9	20.0	19.0	49°
132.5°	8.9	8.9	8.9	10.0	11.2	11.2	10.0	11.2	11.2	12.3	11.2	50°
135°	6.6	7.8	5.6	5.6	7.8	6.6	8.9	7.8	7.8	7.8	6.6	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°	2.3	2.3	1.1	1.1	1.1	2.3	1.1	2.3	1.1	2.3	2.3	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: P212608
 NUMBER: MPW-AF-D-U-ASYM-800

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

165°	170°	175°	180°
398.5	398.5	398.5	398.5
400.8	398.5	399.7	399.7
400.8	400.8	400.8	398.5
386.3	387.4	386.3	386.3
375.1	372.9	371.7	370.6
381.8	380.6	379.6	379.6
389.6	387.4	386.3	386.3
398.5	396.3	392.9	397.4
406.3	403.0	399.7	399.7
408.6	405.3	401.9	400.8
414.2	408.6	405.3	405.3
428.7	423.1	420.8	419.7
438.7	434.2	428.7	427.6
459.9	455.5	453.3	451.0
481.2	476.7	474.4	472.2
509.0	502.4	499.0	497.9
535.8	530.3	526.9	530.3
567.1	561.5	559.3	557.1
600.6	593.9	587.2	587.2
609.6	604.0	600.6	599.4
618.5	612.8	606.2	604.0
628.5	620.7	615.1	615.1
630.8	625.1	619.6	617.4
635.3	630.8	624.1	623.0
637.4	630.8	624.1	623.0
634.1	628.5	623.0	621.9
629.6	623.0	616.2	620.7
624.1	618.5	612.8	611.7
611.7	606.2	600.6	600.6
597.3	592.8	587.2	585.0
586.0	577.1	569.4	570.5
558.2	553.7	548.1	547.0
535.8	534.7	531.4	530.3
516.9	513.5	511.3	510.1
489.0	489.0	484.5	483.3
467.8	465.5	463.3	463.3
448.8	446.5	445.4	446.5
427.6	428.7	425.3	427.6
416.4	417.6	416.4	414.2
404.2	405.3	403.0	404.2
394.0	394.0	392.9	391.9
385.1	385.1	382.9	382.9
374.0	376.2	375.1	374.0
367.2	367.2	368.4	365.1
350.6	352.8	352.8	352.8

CANDELA DISTRIBUTION:

	165°
75°	330.4
77.5°	315.9
80°	298.1
82.5°	279.1
85°	259.0
87.5°	237.8
90°	222.2
92.5°	205.4
95°	195.4
97.5°	174.1
100°	160.8
102.5°	140.7
105°	120.6
107.5°	105.0
110°	89.3
112.5°	77.0
115°	60.3
117.5°	51.4
120°	39.1
122.5°	32.3
125°	29.1
127.5°	22.3
130°	17.9
132.5°	11.2
135°	8.9
137.5°	0.0
140°	2.3
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

