

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: P212613

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P212613
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
Description: WOODBRIDGE LED POST-TOP LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND ASYMMETRIC OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4323 lumens
Efficiency: N/A
Efficacy: 74.5 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): 58
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

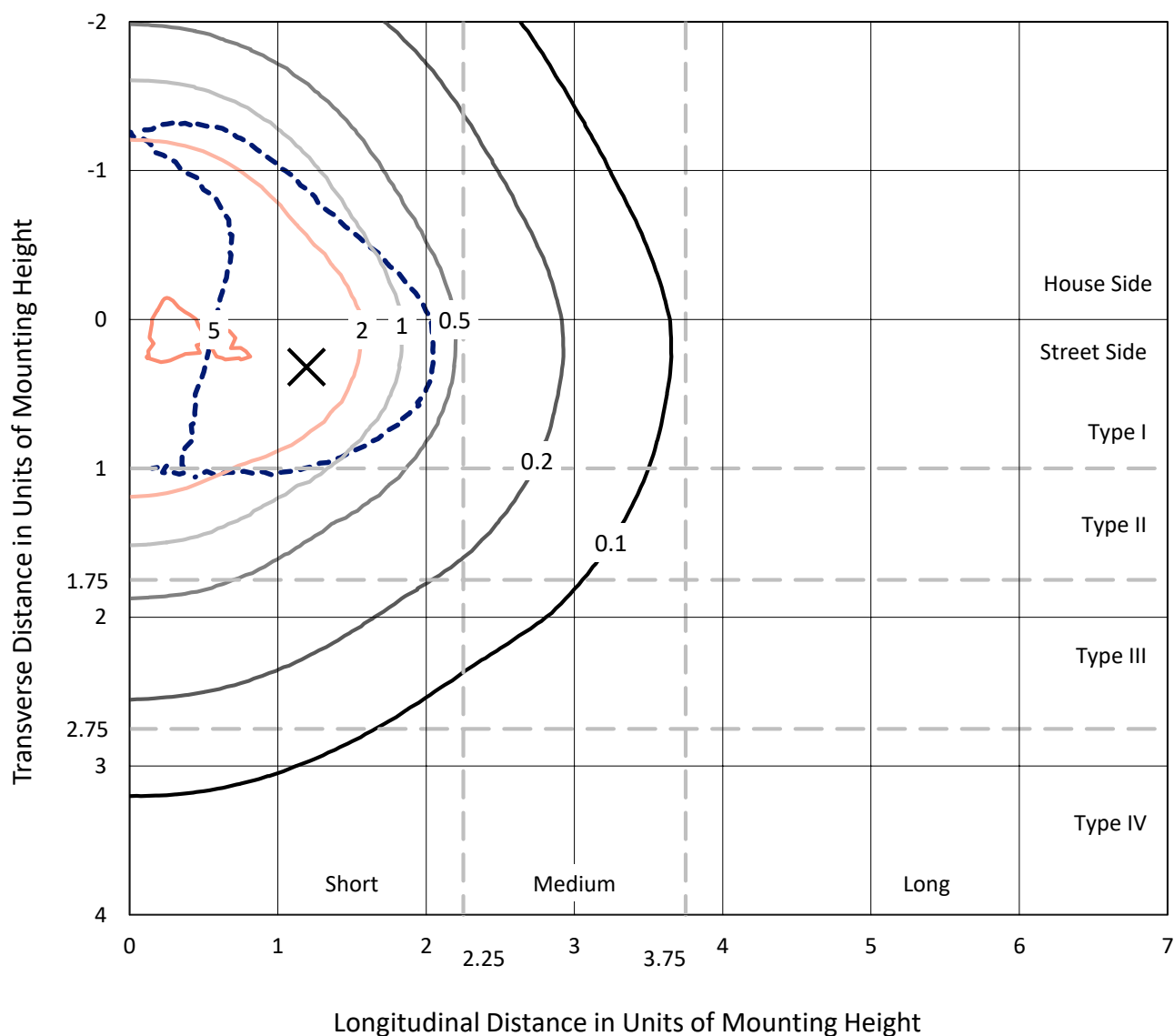


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

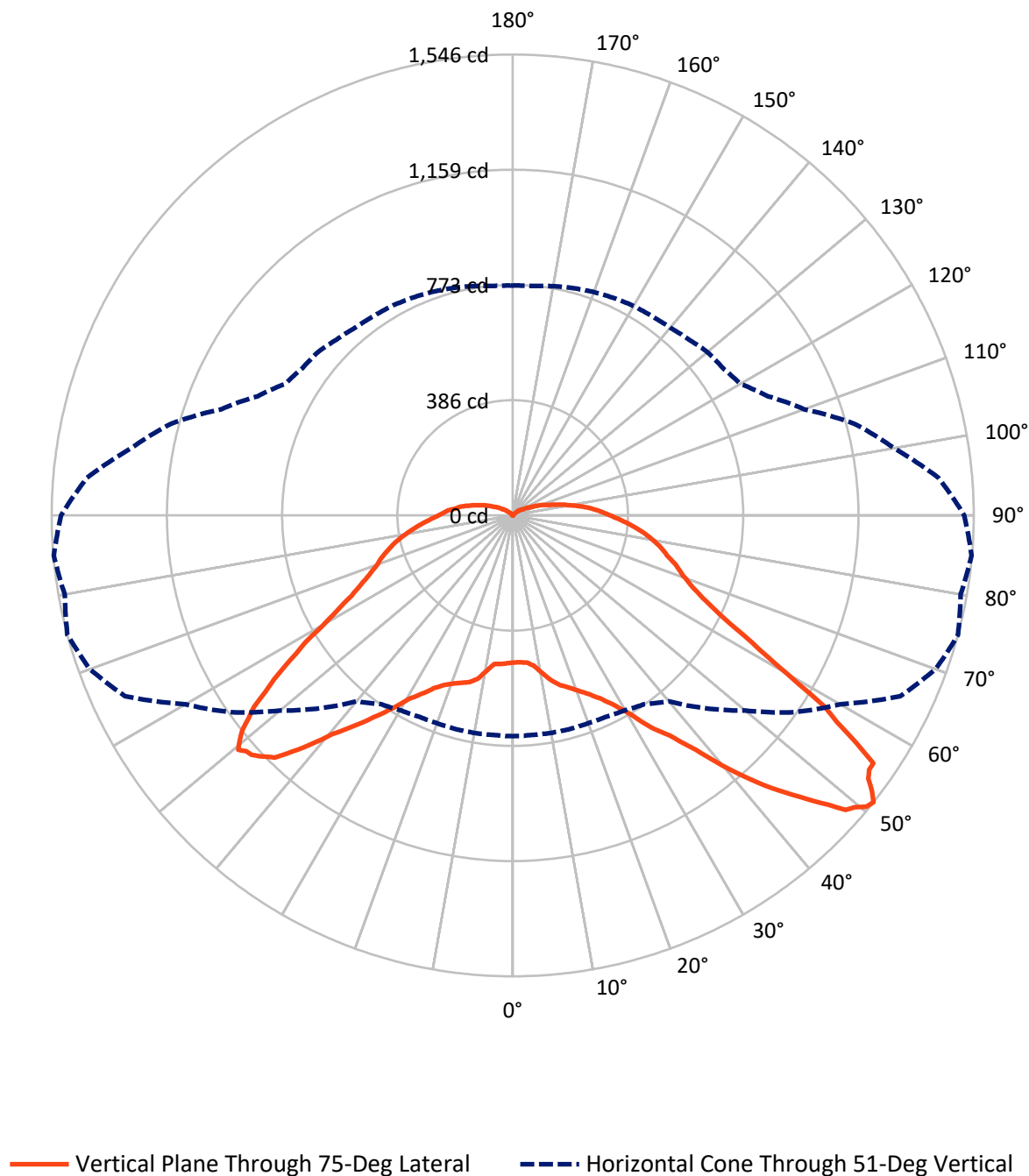


Based on 10 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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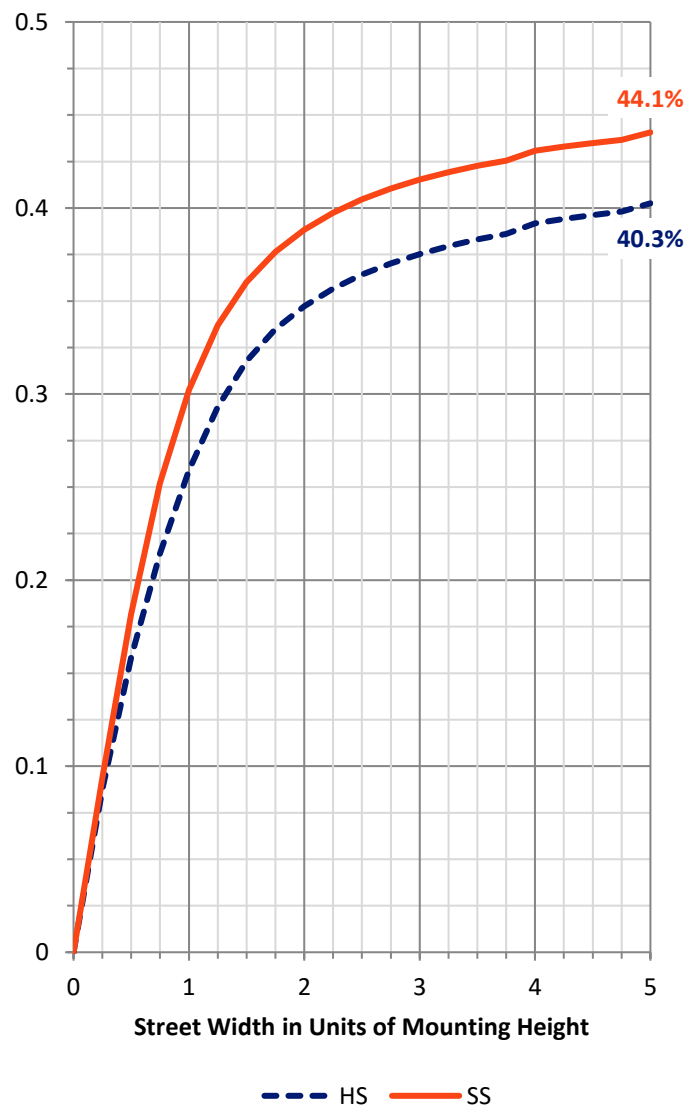
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1838.9	256.3	2095.2
	% Fixture	42.5	5.9	48.5
Street Side	Lumens	1990.1	237.8	2227.9
	% Fixture	46.0	5.5	51.5
Total	Lumens	3828.9	494.1	4323.0
	% Fixture	88.6	11.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.4	1.1
10°-20°	156.2	3.6
20°-30°	286.0	6.6
30°-40°	471.9	10.9
40°-50°	734.4	17.0
50°-60°	793.1	18.3
60°-70°	552.3	12.8
70°-80°	445.9	10.3
80°-90°	341.9	7.9
90°-100°	243.8	5.6
100°-110°	146.9	3.4
110°-120°	70.0	1.6
120°-130°	27.8	0.6
130°-140°	5.4	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°	3828.9	88.6
0°-180°	4323.0	100.0

Coefficient of Utilization



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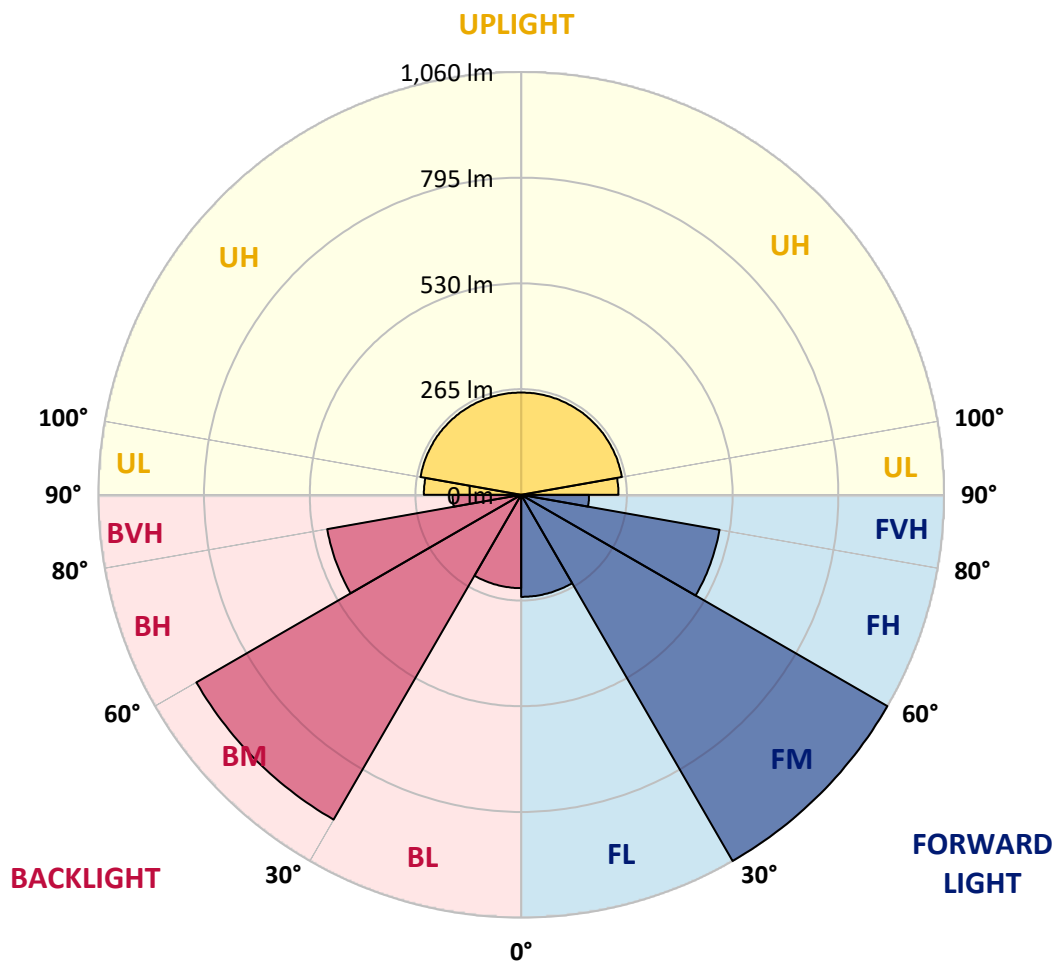
CATALOG NUMBER: MPW-AF-D-U-ASYM

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	255.7	5.9			
FM	(30°-60°)	1059.5	24.5			
FH	(60°-80°)	504.7	11.7			G0/660
FVH	(80°-90°)	170.1	3.9			G2/225
BL	(0°-30°)	233.8	5.4	B1/500		
BM	(30°-60°)	939.9	21.7	B1/1000		
BH	(60°-80°)	493.5	11.4	B1/500		G1/500
BVH	(80°-90°)	171.7	4.0			G2/225
UL	(90°-100°)	243.8	5.6		U3/500	
UH	(100°-180°)	256.3	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°	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2
2.5°	490.4	490.4	490.4	490.4	491.8	490.4	491.8	490.4	491.8	491.8	493.2
5°	473.8	473.8	476.6	476.6	478.0	479.4	482.1	482.1	484.9	486.3	487.6
7.5°	482.1	483.5	483.5	482.1	483.5	486.3	487.6	490.4	494.6	497.4	501.5
10°	498.7	497.4	498.7	498.7	500.1	502.9	507.0	512.5	515.3	520.8	526.3
12.5°	518.0	518.0	520.8	520.8	523.5	527.7	534.6	537.4	541.6	548.4	553.9
15°	541.6	541.6	542.9	544.3	547.1	552.6	558.1	562.3	565.1	569.2	573.4
17.5°	567.8	570.6	571.9	574.7	576.1	580.2	583.0	584.4	585.7	587.2	591.3
20°	589.9	589.9	592.7	595.5	598.2	605.1	606.5	606.5	605.1	607.8	610.6
22.5°	589.9	588.5	595.5	605.1	612.0	618.9	623.1	625.8	628.6	627.2	631.4
25°	577.5	578.9	585.7	596.8	612.0	624.4	635.5	642.4	649.3	650.7	656.2
27.5°	595.5	595.5	602.3	612.0	624.4	638.2	652.0	665.8	675.6	685.2	692.1
30°	610.6	613.4	621.6	634.1	643.7	657.6	672.8	689.4	703.2	715.7	725.3
32.5°	638.2	639.7	645.2	653.5	667.3	683.8	701.8	721.2	741.8	757.1	772.2
35°	668.6	664.5	664.5	671.4	682.4	697.7	718.4	743.3	781.9	802.6	823.4
37.5°	692.1	692.1	693.5	697.7	703.2	714.2	733.6	763.9	809.6	856.5	877.3
40°	728.0	728.0	726.7	730.8	736.3	746.0	762.6	791.6	830.2	907.7	961.5
42.5°	754.3	752.9	754.3	759.8	761.2	768.1	784.7	816.4	857.9	929.8	1023.7
45°	769.5	769.5	768.1	770.9	775.0	783.3	794.3	826.1	880.0	953.2	1050.0
46°	770.9	770.9	769.5	772.2	776.4	783.3	793.0	823.4	882.8	960.1	1051.3
47°	769.5	766.7	766.7	768.1	770.9	776.4	786.0	812.3	875.9	949.1	1052.7
48°	765.4	763.9	765.4	768.1	768.1	775.0	783.3	808.1	867.6	947.7	1070.6
49°	762.6	762.6	763.9	765.4	768.1	772.2	783.3	806.8	855.2	946.3	1059.6
50°	757.1	757.1	758.4	761.2	759.8	761.2	772.2	790.2	834.4	935.3	1045.8
51°	740.5	739.1	740.5	741.8	741.8	744.6	754.3	772.2	813.7	914.5	1018.1
52°	719.7	719.7	721.2	723.9	725.3	728.0	736.3	752.9	791.6	892.4	993.3
53°	689.4	692.1	699.1	699.1	701.8	705.9	715.7	732.2	768.1	855.2	961.5
54°	674.1	676.9	683.8	687.9	690.7	699.1	708.7	722.5	752.9	826.1	950.4
55°	639.7	642.4	647.9	654.8	657.6	665.8	675.6	692.1	723.9	790.2	900.7
56°	613.4	614.8	621.6	625.8	627.2	631.4	639.7	650.7	678.3	732.2	837.2
57°	589.9	587.2	591.3	596.8	598.2	602.3	610.6	618.9	642.4	693.5	786.0
58°	555.4	549.8	555.4	559.6	562.3	566.4	574.7	581.6	602.3	649.3	730.8
59°	527.7	530.5	536.0	540.1	542.9	547.1	551.2	559.6	577.5	614.8	692.1
60°	508.4	509.7	512.5	516.7	519.5	523.5	527.7	534.6	551.2	584.4	653.5
61°	491.8	491.8	495.9	500.1	500.1	504.2	507.0	512.5	527.7	555.4	617.6
62°	478.0	475.3	479.4	484.9	484.9	489.1	490.4	495.9	508.4	531.8	588.5
63°	461.5	462.8	464.2	469.7	469.7	473.8	473.8	480.8	489.1	511.2	562.3
64°	446.2	450.4	449.0	453.2	454.5	455.9	458.7	462.8	471.1	493.2	538.8
65°	440.7	440.7	444.9	446.2	447.6	450.4	453.2	457.3	465.5	483.5	531.8
66°	432.4	432.4	435.2	437.9	437.9	440.7	444.9	449.0	455.9	472.5	516.7
67°	424.1	424.1	425.5	428.3	428.3	429.6	433.8	437.9	446.2	462.8	504.2
68°	415.8	415.8	417.2	418.6	418.6	420.0	424.1	429.6	437.9	453.2	493.2
69°	410.3	404.8	408.9	408.9	408.9	411.6	413.1	418.6	429.6	446.2	482.1
70°	396.5	397.8	399.3	400.6	400.6	399.3	400.6	407.5	417.2	433.8	469.7
72.5°	378.5	379.9	381.3	381.3	379.9	379.9	381.3	385.4	393.7	410.3	443.4



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

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
75°	352.3	355.1	355.1	355.1	352.3	352.3	353.6	356.4	361.9	377.2	406.1
77.5°	335.7	334.3	335.7	334.3	333.0	333.0	331.5	333.0	337.1	350.9	377.2
80°	316.4	312.2	313.6	310.9	310.9	309.4	306.7	306.7	310.9	327.4	348.1
82.5°	291.5	290.1	291.5	290.1	287.3	284.6	281.8	283.3	287.3	294.3	316.4
85°	269.3	272.1	270.8	268.0	263.8	261.1	258.3	259.7	261.1	266.6	287.3
87.5°	252.8	251.4	252.8	248.7	245.9	243.2	240.4	239.0	240.4	245.9	257.0
90°	237.6	237.6	236.2	234.9	230.7	229.3	225.2	223.8	223.8	229.3	243.2
92.5°	226.6	225.2	222.4	222.4	216.9	212.8	211.3	210.0	208.6	214.1	226.6
95°	208.6	207.2	207.2	205.8	201.7	199.0	196.2	194.8	196.2	199.0	210.0
97.5°	182.4	186.5	182.4	182.4	178.2	176.9	175.4	172.7	172.7	176.9	185.2
100°	171.3	169.9	168.6	167.2	165.8	164.4	163.1	161.6	161.6	165.8	171.3
102.5°	154.8	150.6	150.6	145.1	145.1	145.1	143.7	143.7	145.1	150.6	153.3
105°	129.8	128.5	128.5	127.1	127.1	125.7	125.7	124.3	127.1	128.5	134.0
107.5°	110.5	110.5	110.5	109.1	109.1	109.1	109.1	109.1	109.1	111.9	116.0
110°	93.9	92.6	93.9	92.6	93.9	92.6	92.6	92.6	95.3	96.7	103.6
112.5°	74.6	76.0	77.3	76.0	76.0	77.3	77.3	77.3	78.8	80.1	82.9
115°	62.2	58.0	58.0	59.4	58.0	59.4	59.4	62.2	62.2	65.0	65.0
117.5°	48.4	48.4	48.4	49.7	49.7	49.7	51.1	52.5	52.5	53.9	55.2
120°	35.9	37.3	34.6	38.7	35.9	37.3	37.3	38.7	42.9	40.1	41.4
122.5°	29.1	29.1	29.1	30.4	30.4	30.4	30.4	31.8	31.8	31.8	33.1
125°	23.5	24.9	26.3	26.3	24.9	26.3	26.3	26.3	27.6	30.4	30.4
127.5°	19.3	18.0	19.3	19.3	20.8	20.8	19.3	19.3	20.8	20.8	22.1
130°	13.8	13.8	13.8	13.8	13.8	13.8	13.8	15.2	15.2	15.2	15.2
132.5°	4.2	5.5	5.5	5.5	5.5	7.0	5.5	7.0	7.0	5.5	7.0
135°	1.4	1.4	1.4	1.4	1.4	2.8	2.8	4.2	2.8	1.4	2.8
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°	1.4	1.4	1.4	0.0	1.4	2.8	1.4	1.4	1.4	0.0	1.4
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°	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2
2.5°	493.2	493.2	494.6	493.2	493.2	493.2	494.6	494.6	494.6	495.9	495.9
5°	487.6	491.8	491.8	494.6	495.9	497.4	498.7	497.4	498.7	498.7	500.1
7.5°	502.9	502.9	507.0	507.0	508.4	508.4	509.7	505.6	505.6	504.2	501.5
10°	531.8	534.6	536.0	537.4	536.0	534.6	531.8	531.8	531.8	529.1	527.7
12.5°	556.8	562.3	565.1	567.8	566.4	566.4	563.6	562.3	562.3	562.3	559.6
15°	578.9	583.0	587.2	589.9	589.9	588.5	589.9	585.7	585.7	581.6	577.5
17.5°	596.8	602.3	605.1	609.3	606.5	605.1	603.7	599.6	596.8	592.7	587.2
20°	616.1	620.3	624.4	628.6	627.2	624.4	620.3	616.1	610.6	606.5	598.2
22.5°	636.9	642.4	647.9	650.7	650.7	647.9	642.4	638.2	629.9	623.1	613.4
25°	661.7	668.6	675.6	678.3	679.6	676.9	668.6	663.1	656.2	646.5	636.9
27.5°	699.1	708.7	715.7	718.4	718.4	717.0	710.1	704.6	693.5	685.2	671.4
30°	735.0	751.6	763.9	776.4	770.9	765.4	761.2	752.9	739.1	725.3	707.4
32.5°	793.0	813.7	835.9	845.5	845.5	841.4	831.7	823.4	812.3	791.6	763.9
35°	851.0	877.3	903.5	907.7	906.2	904.9	896.6	896.6	885.6	852.4	820.6
37.5°	907.7	958.7	989.2	998.8	997.5	997.5	985.0	980.9	957.4	921.5	884.1
40°	976.7	1048.5	1108.0	1124.5	1120.4	1113.5	1096.9	1088.6	1058.2	1003.0	950.4
42.5°	1061.0	1137.0	1224.0	1253.0	1237.8	1225.4	1225.4	1201.9	1174.2	1116.2	1045.8
45°	1134.2	1197.8	1326.3	1369.0	1345.6	1320.7	1330.3	1320.7	1287.6	1214.3	1138.3
46°	1152.1	1229.5	1380.1	1421.6	1392.5	1366.3	1377.3	1363.5	1327.6	1250.3	1154.9
47°	1178.4	1258.5	1420.2	1468.5	1436.7	1396.7	1424.4	1406.4	1359.4	1277.9	1172.9
48°	1190.8	1282.1	1458.8	1503.0	1490.6	1435.4	1467.1	1436.7	1402.3	1297.2	1188.1
49°	1184.0	1279.3	1461.6	1521.0	1507.2	1469.9	1492.0	1460.3	1398.1	1316.5	1193.6
50°	1178.4	1277.9	1456.1	1527.9	1536.3	1511.3	1511.3	1487.9	1411.9	1300.0	1210.2
51°	1150.8	1266.8	1434.0	1508.5	1545.9	1525.1	1544.6	1514.1	1434.0	1298.6	1186.7
52°	1110.7	1248.8	1410.5	1492.0	1518.3	1505.8	1541.8	1529.3	1443.7	1298.6	1159.1
53°	1073.4	1230.9	1367.7	1463.0	1483.7	1461.6	1490.6	1498.9	1400.8	1286.2	1116.2
54°	1036.1	1178.4	1351.1	1485.1	1468.5	1439.5	1479.6	1478.2	1376.0	1218.4	1078.9
55°	985.0	1109.3	1283.4	1431.2	1467.1	1440.9	1472.6	1445.0	1313.8	1156.3	1019.6
56°	925.6	1051.3	1172.9	1316.5	1380.1	1406.4	1434.0	1396.7	1253.0	1106.5	969.8
57°	862.0	964.2	1067.9	1190.8	1288.9	1309.7	1329.0	1308.3	1168.7	1036.1	914.5
58°	801.3	891.1	980.9	1094.1	1226.7	1260.0	1260.0	1244.7	1094.1	974.0	859.3
59°	759.8	838.6	914.5	1020.9	1110.7	1128.7	1139.8	1131.5	1022.3	913.2	815.1
60°	715.7	784.7	860.7	951.9	1016.8	1026.4	1029.2	1009.9	927.0	844.1	755.7
61°	674.1	739.1	801.3	881.4	940.8	953.2	953.2	928.3	859.3	779.2	708.7
62°	642.4	699.1	751.6	819.2	877.3	892.4	885.6	866.2	805.4	730.8	670.0
63°	613.4	665.8	712.9	768.1	815.1	828.9	821.9	808.1	755.7	692.1	638.2
64°	587.2	634.1	676.9	725.3	766.7	779.2	766.7	757.1	712.9	652.0	603.7
65°	574.7	618.9	656.2	697.7	729.5	736.3	728.0	712.9	676.9	627.2	580.2
66°	560.9	601.0	635.5	670.0	694.9	701.8	694.9	679.6	645.2	601.0	558.1
67°	545.6	583.0	616.1	647.9	668.6	672.8	668.6	654.8	620.3	578.9	538.8
68°	533.3	569.2	598.2	627.2	643.7	649.3	647.9	632.7	595.5	558.1	520.8
69°	522.2	555.4	585.7	609.3	625.8	627.2	627.2	613.4	578.9	542.9	507.0
70°	509.7	541.6	567.8	592.7	606.5	609.3	609.3	595.5	565.1	527.7	489.1
72.5°	484.9	512.5	540.1	559.6	573.4	577.5	581.6	567.8	533.3	498.7	462.8



REPORT NUMBER: P212613

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

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
75°	450.4	475.3	501.5	519.5	534.6	538.8	544.3	534.6	500.1	465.5	433.8
77.5°	415.8	440.7	467.0	489.1	505.6	511.2	515.3	505.6	471.1	439.4	404.8
80°	381.3	403.3	432.4	453.2	471.1	475.3	480.8	465.5	439.4	403.3	371.6
82.5°	349.5	370.2	396.5	417.2	435.2	442.1	439.4	428.3	399.3	367.4	339.8
85°	316.4	335.7	359.2	377.2	395.1	399.3	397.8	385.4	360.6	333.0	308.1
87.5°	288.8	306.7	326.0	338.5	355.1	357.8	356.4	344.0	323.3	301.2	279.1
90°	265.3	280.5	298.4	308.1	319.2	327.4	324.7	312.2	292.9	274.9	252.8
92.5°	248.7	259.7	273.5	283.3	290.1	295.6	295.6	284.6	268.0	250.0	233.4
95°	225.2	234.9	247.2	254.2	259.7	266.6	266.6	258.3	244.5	230.7	216.9
97.5°	199.0	205.8	212.8	218.3	222.4	227.9	225.2	221.1	212.8	201.7	192.0
100°	176.9	179.6	183.7	187.9	189.2	193.4	194.8	193.4	187.9	182.4	176.9
102.5°	157.5	160.3	160.3	161.6	161.6	160.3	161.6	160.3	158.9	160.3	154.8
105°	134.0	136.8	134.0	131.2	131.2	132.6	134.0	135.3	135.3	136.8	135.3
107.5°	118.8	118.8	117.4	114.7	114.7	114.7	114.7	114.7	117.4	118.8	117.4
110°	102.2	99.4	99.4	98.1	96.7	96.7	98.1	96.7	98.1	100.9	102.2
112.5°	84.3	82.9	81.5	80.1	77.3	78.8	81.5	81.5	84.3	85.6	85.6
115°	65.0	66.3	67.7	63.5	62.2	62.2	62.2	65.0	66.3	66.3	69.0
117.5°	55.2	56.7	55.2	55.2	53.9	53.9	55.2	55.2	58.0	60.8	60.8
120°	42.9	41.4	41.4	44.2	41.4	42.9	44.2	42.9	42.9	47.0	49.7
122.5°	34.6	35.9	35.9	34.6	35.9	37.3	35.9	37.3	35.9	37.3	38.7
125°	31.8	31.8	31.8	31.8	31.8	33.1	34.6	34.6	33.1	33.1	34.6
127.5°	23.5	24.9	24.9	26.3	26.3	26.3	27.6	27.6	26.3	26.3	26.3
130°	18.0	18.0	19.3	23.5	20.8	20.8	22.1	20.8	22.1	22.1	19.3
132.5°	7.0	8.3	8.3	9.7	11.0	12.5	12.5	12.5	11.0	12.5	11.0
135°	4.2	2.8	4.2	5.5	4.2	7.0	7.0	5.5	7.0	7.0	7.0
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°	2.8	1.4	1.4	1.4	1.4	0.0	0.0	0.0	1.4	2.8	1.4
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



REPORT NUMBER: P212613

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

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2
2.5°	495.9	495.9	494.6	495.9	497.4	495.9	495.9	495.9	494.6	495.9	495.9
5°	500.1	500.1	501.5	500.1	501.5	501.5	501.5	500.1	498.7	498.7	495.9
7.5°	500.1	498.7	500.1	500.1	498.7	494.6	490.4	486.3	483.5	482.1	480.8
10°	525.0	520.8	515.3	508.4	501.5	494.6	489.1	482.1	475.3	472.5	467.0
12.5°	551.2	545.6	537.4	533.3	525.0	518.0	508.4	500.1	491.8	480.8	475.3
15°	571.9	567.8	560.9	552.6	540.1	529.1	518.0	508.4	500.1	493.2	486.3
17.5°	585.7	578.9	570.6	558.1	549.8	540.1	530.5	522.2	515.3	507.0	500.1
20°	592.7	584.4	576.1	569.2	560.9	551.2	544.3	534.6	526.3	515.3	508.4
22.5°	606.5	598.2	592.7	580.2	570.6	563.6	556.8	548.4	538.8	526.3	513.9
25°	625.8	616.1	605.1	595.5	588.5	580.2	569.2	553.9	542.9	531.8	523.5
27.5°	659.0	645.2	629.9	620.3	610.6	596.8	584.4	573.4	562.3	551.2	538.8
30°	686.6	664.5	649.3	636.9	618.9	607.8	595.5	583.0	570.6	560.9	552.6
32.5°	737.8	708.7	683.8	665.8	646.5	632.7	620.3	610.6	598.2	587.2	577.5
35°	784.7	751.6	721.2	693.5	675.6	661.7	646.5	632.7	620.3	609.3	601.0
37.5°	834.4	790.2	752.9	726.7	708.7	692.1	676.9	663.1	652.0	642.4	634.1
40°	896.6	838.6	795.8	766.7	744.6	726.7	710.1	694.9	685.2	675.6	668.6
42.5°	980.9	895.2	845.5	813.7	783.3	763.9	746.0	735.0	725.3	714.2	708.7
45°	1037.5	947.7	877.3	837.2	812.3	795.8	784.7	772.2	769.5	758.4	748.8
46°	1051.3	950.4	885.6	837.2	819.2	804.0	791.6	784.7	779.2	770.9	761.2
47°	1050.0	947.7	881.4	837.2	820.6	809.6	799.8	798.5	787.5	779.2	775.0
48°	1048.5	961.5	889.7	846.9	833.0	819.2	809.6	804.0	798.5	790.2	781.9
49°	1045.8	955.9	891.1	855.2	842.7	827.5	816.4	809.6	802.6	795.8	788.8
50°	1047.2	954.6	888.3	862.0	851.0	837.2	823.4	813.7	808.1	801.3	793.0
51°	1040.2	944.9	881.4	860.7	852.4	834.4	821.9	815.1	810.9	804.0	797.1
52°	1025.1	935.3	874.5	852.4	846.9	828.9	815.1	809.6	805.4	798.5	791.6
53°	985.0	896.6	839.9	824.7	817.8	805.4	801.3	798.5	795.8	791.6	783.3
54°	943.6	864.8	821.9	808.1	802.6	793.0	787.5	791.6	787.5	787.5	779.2
55°	909.0	835.9	801.3	788.8	783.3	775.0	769.5	770.9	770.9	769.5	761.2
56°	877.3	816.4	781.9	768.1	762.6	755.7	752.9	752.9	752.9	750.1	743.3
57°	835.9	784.7	762.6	752.9	747.4	740.5	740.5	739.1	736.3	732.2	729.5
58°	791.6	739.1	718.4	707.4	705.9	700.4	701.8	703.2	703.2	699.1	697.7
59°	747.4	701.8	681.1	674.1	668.6	668.6	670.0	671.4	672.8	672.8	668.6
60°	697.7	656.2	639.7	635.5	634.1	634.1	634.1	638.2	641.0	642.4	642.4
61°	660.3	623.1	606.5	602.3	602.3	602.3	603.7	607.8	609.3	610.6	609.3
62°	625.8	591.3	576.1	574.7	574.7	576.1	576.1	580.2	580.2	581.6	580.2
63°	592.7	562.3	551.2	547.1	549.8	549.8	548.4	552.6	556.8	555.4	552.6
64°	559.6	534.6	523.5	522.2	520.8	522.2	520.8	525.0	526.3	526.3	529.1
65°	542.9	519.5	507.0	504.2	507.0	505.6	509.7	511.2	512.5	513.9	512.5
66°	525.0	502.9	493.2	487.6	489.1	489.1	493.2	494.6	497.4	495.9	500.1
67°	509.7	486.3	476.6	473.8	473.8	473.8	475.3	479.4	480.8	483.5	483.5
68°	493.2	472.5	465.5	462.8	462.8	461.5	462.8	467.0	468.3	471.1	472.5
69°	479.4	460.0	453.2	449.0	451.7	449.0	450.4	457.3	455.9	458.7	467.0
70°	467.0	447.6	442.1	442.1	439.4	440.7	440.7	443.4	444.9	450.4	449.0
72.5°	443.4	426.9	418.6	420.0	420.0	420.0	421.4	424.1	425.5	429.6	432.4



REPORT NUMBER: P212613
CATALOG NUMBER: MPW-AF-D-U-ASYM

REPORT N
CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°	
75°	410.3	396.5	392.3	392.3	392.3	395.1	395.1	396.5	403.3	406.1	406.1	0°
77.5°	386.8	373.0	368.9	368.9	371.6	373.0	375.7	378.5	381.3	386.8	388.2	2.5°
80°	355.1	344.0	342.6	344.0	346.8	349.5	352.3	359.2	361.9	363.4	371.6	5°
82.5°	327.4	316.4	316.4	319.2	323.3	326.0	331.5	334.3	337.1	341.3	344.0	7.5°
85°	295.6	287.3	290.1	292.9	299.8	301.2	303.9	309.4	313.6	315.0	319.2	10°
87.5°	268.0	263.8	265.3	269.3	273.5	280.5	283.3	286.0	291.5	294.3	294.3	12.5°
90°	245.9	241.7	245.9	251.4	255.5	258.3	262.5	265.3	269.3	270.8	272.1	15°
92.5°	227.9	225.2	229.3	234.9	239.0	240.4	243.2	250.0	251.4	254.2	254.2	17.5°
95°	211.3	210.0	214.1	218.3	222.4	226.6	229.3	233.4	237.6	239.0	239.0	20°
97.5°	187.9	186.5	190.7	199.0	200.3	201.7	204.5	207.2	212.8	214.1	212.8	22.5°
100°	175.4	174.1	175.4	181.0	182.4	187.9	189.2	193.4	194.8	197.5	196.2	25°
102.5°	152.0	153.3	156.1	156.1	161.6	161.6	165.8	168.6	169.9	174.1	179.6	27.5°
105°	135.3	135.3	136.8	136.8	139.5	141.0	141.0	145.1	147.8	147.8	149.2	30°
107.5°	118.8	118.8	120.2	121.5	123.0	123.0	124.3	127.1	127.1	129.8	129.8	32.5°
110°	102.2	105.0	103.6	103.6	103.6	106.4	107.7	107.7	109.1	110.5	110.5	35°
112.5°	87.1	87.1	87.1	88.4	89.8	89.8	91.1	91.1	92.6	93.9	93.9	37.5°
115°	70.5	70.5	71.8	70.5	69.0	70.5	70.5	71.8	73.2	71.8	80.1	40°
117.5°	62.2	60.8	59.4	60.8	59.4	59.4	59.4	60.8	62.2	62.2	65.0	42.5°
120°	45.6	45.6	45.6	45.6	48.4	45.6	45.6	44.2	47.0	45.6	47.0	45°
122.5°	38.7	37.3	37.3	37.3	37.3	37.3	37.3	38.7	37.3	38.7	37.3	46°
125°	33.1	33.1	35.9	33.1	31.8	33.1	33.1	33.1	33.1	34.6	40.1	47°
127.5°	26.3	27.6	26.3	26.3	26.3	27.6	26.3	26.3	27.6	29.1	27.6	48°
130°	22.1	19.3	20.8	20.8	20.8	20.8	20.8	20.8	22.1	24.9	23.5	49°
132.5°	11.0	11.0	11.0	12.5	13.8	13.8	12.5	13.8	13.8	15.2	13.8	50°
135°	8.3	9.7	7.0	7.0	9.7	8.3	11.0	9.7	9.7	9.7	8.3	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°	2.8	2.8	1.4	1.4	1.4	2.8	1.4	2.8	1.4	2.8	2.8	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: P212613
NUMBER: MPW-AF-D-U-ASYM

REPORT NUMBER: P
CATALOG NUMBER:

DISTRIBUTION (continued):

165°	170°	175°	180°
493.2	493.2	493.2	493.2
495.9	493.2	494.6	494.6
495.9	495.9	495.9	493.2
478.0	479.4	478.0	478.0
464.2	461.5	460.0	458.7
472.5	471.1	469.7	469.7
482.1	479.4	478.0	478.0
493.2	490.4	486.3	491.8
502.9	498.7	494.6	494.6
505.6	501.5	497.4	495.9
512.5	505.6	501.5	501.5
530.5	523.5	520.8	519.5
542.9	537.4	530.5	529.1
569.2	563.6	560.9	558.1
595.5	589.9	587.2	584.4
629.9	621.6	617.6	616.1
663.1	656.2	652.0	656.2
701.8	694.9	692.1	689.4
743.3	735.0	726.7	726.7
754.3	747.4	743.3	741.8
765.4	758.4	750.1	747.4
777.7	768.1	761.2	761.2
780.5	773.7	766.7	763.9
786.0	780.5	772.2	770.9
788.8	780.5	772.2	770.9
784.7	777.7	770.9	769.5
779.2	770.9	762.6	768.1
772.2	765.4	758.4	757.1
757.1	750.1	743.3	743.3
739.1	733.6	726.7	723.9
725.3	714.2	704.6	705.9
690.7	685.2	678.3	676.9
663.1	661.7	657.6	656.2
639.7	635.5	632.7	631.4
605.1	605.1	599.6	598.2
578.9	576.1	573.4	573.4
555.4	552.6	551.2	552.6
529.1	530.5	526.3	529.1
515.3	516.7	515.3	512.5
500.1	501.5	498.7	500.1
487.6	487.6	486.3	484.9
476.6	476.6	473.8	473.8
462.8	465.5	464.2	462.8
454.5	454.5	455.9	451.7
433.8	436.6	436.6	436.6

CANDELA DISTRIBUTION:

	165°
75°	408.9
77.5°	391.0
80°	368.9
82.5°	345.3
85°	320.5
87.5°	294.3
90°	274.9
92.5°	254.2
95°	241.7
97.5°	215.5
100°	199.0
102.5°	174.1
105°	149.2
107.5°	129.8
110°	110.5
112.5°	95.3
115°	74.6
117.5°	63.5
120°	48.4
122.5°	40.1
125°	35.9
127.5°	27.6
130°	22.1
132.5°	13.8
135°	11.0
137.5°	0.0
140°	2.8
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

TION (continued):

[illegible]

(END OF REPORT)