

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: P212603

Luminaire Tested: **MPW-AF-D-U-ASYM-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P212603
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-600
Description: WOODBRIDGE LED POST-TOP LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND ASYMMETRIC OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2847.9 lumens
Efficiency: N/A
Efficacy: 83.8 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): 34
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

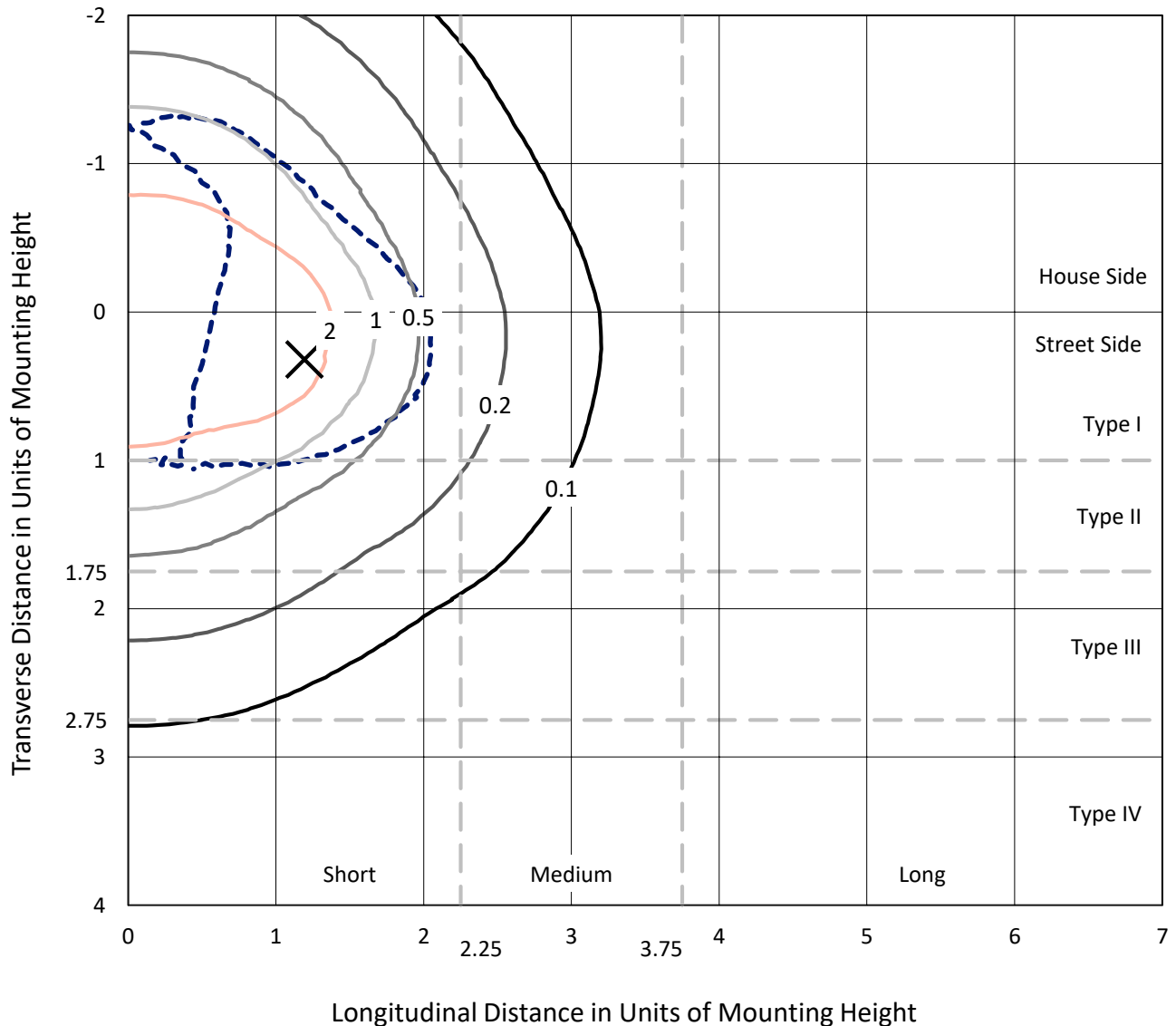


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

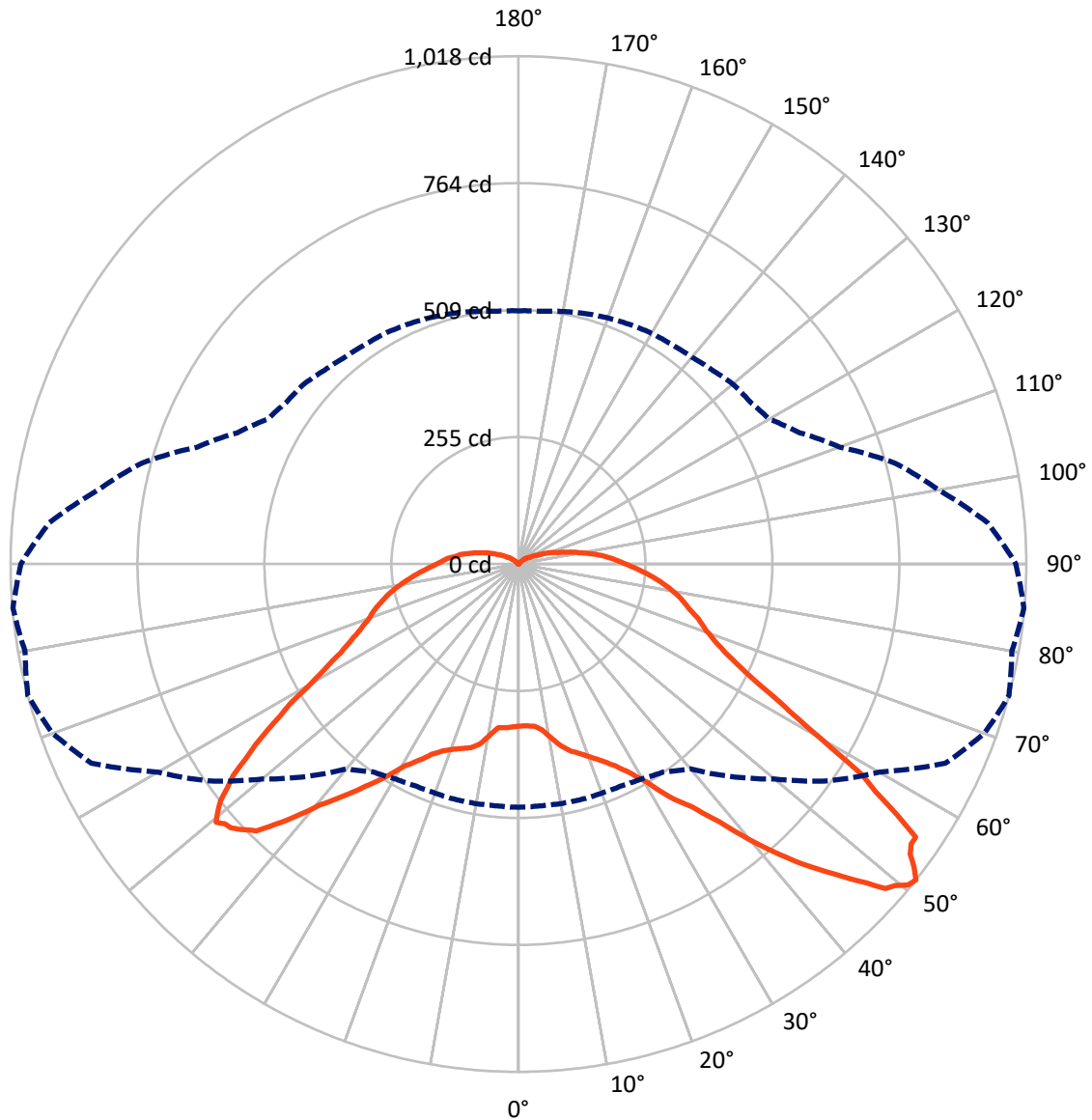


Based on 10 foot mounting height. Maximum calculated value = 3.5 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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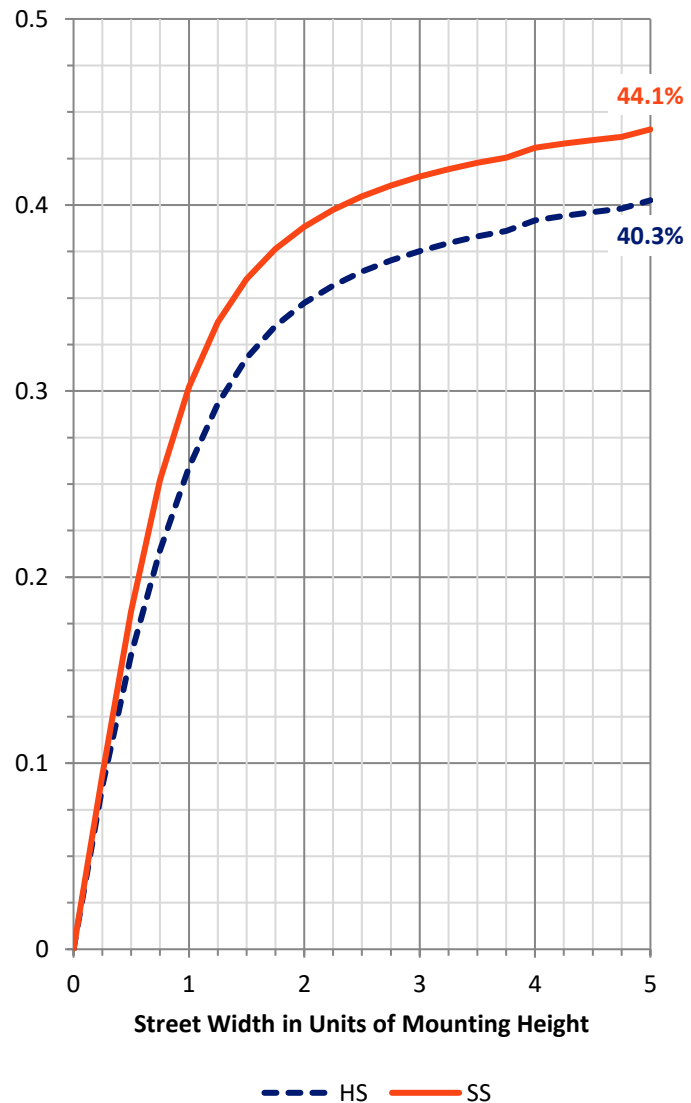
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1211.4	168.8	1380.2
	% Fixture	42.5	5.9	48.5
Street Side	Lumens	1311.0	156.7	1467.7
	% Fixture	46.0	5.5	51.5
Total	Lumens	2522.4	325.5	2847.9
	% Fixture	88.6	11.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.2	1.1
10°-20°	102.9	3.6
20°-30°	188.4	6.6
30°-40°	310.9	10.9
40°-50°	483.8	17.0
50°-60°	522.5	18.3
60°-70°	363.9	12.8
70°-80°	293.7	10.3
80°-90°	225.2	7.9
90°-100°	160.6	5.6
100°-110°	96.8	3.4
110°-120°	46.1	1.6
120°-130°	18.3	0.6
130°-140°	3.5	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°	2522.4	88.6
0°-180°	2847.9	100.0



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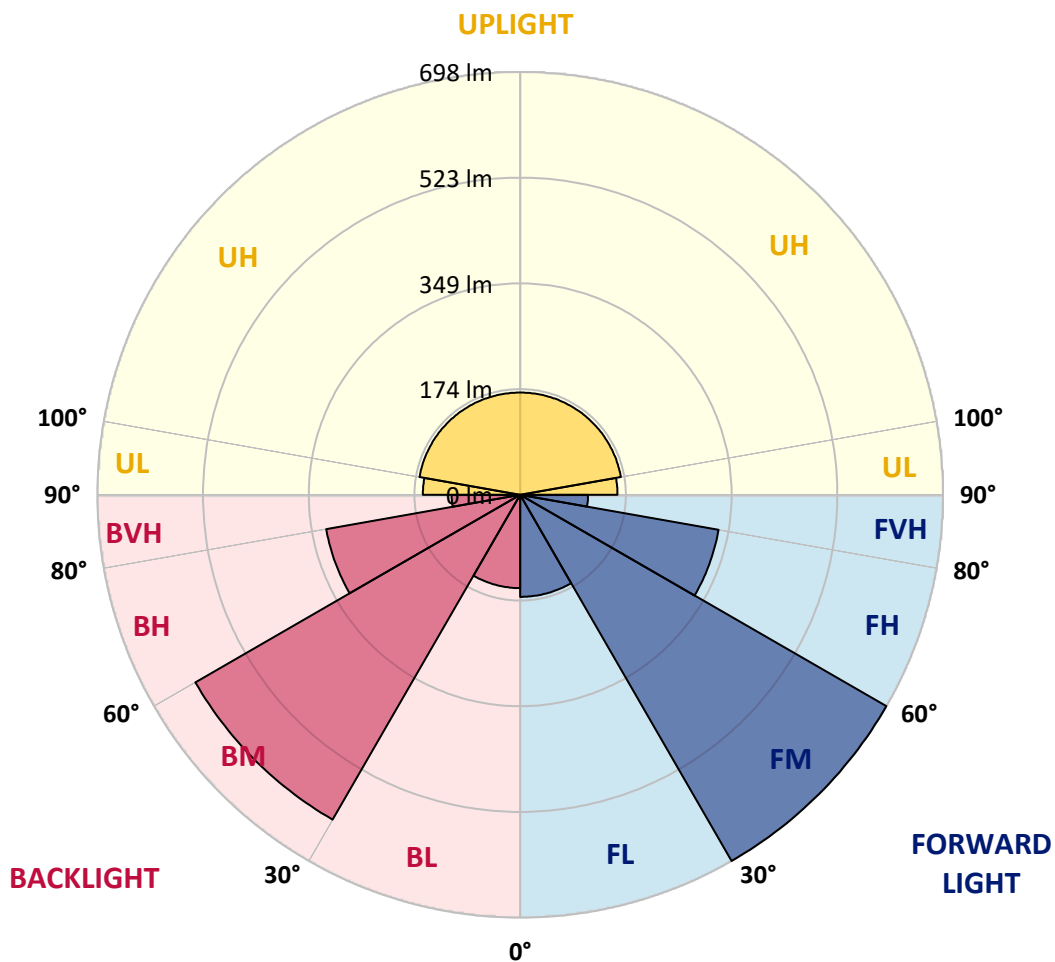
CATALOG NUMBER: MPW-AF-D-U-ASYM-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	168.5	5.9			
FM (30°-60°)	698.0	24.5			
FH (60°-80°)	332.5	11.7			G0/660
FVH (80°-90°)	112.1	3.9			G2/225
BL (0°-30°)	154.0	5.4	B1/500		
BM (30°-60°)	619.2	21.7	B1/1000		
BH (60°-80°)	325.1	11.4	B1/500		G1/500
BVH (80°-90°)	113.1	4.0			G2/225
UL (90°-100°)	160.6	5.6		U3/500	
UH (100°-180°)	168.8	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°	324.9	324.9	324.9	324.9	324.9	324.9	324.9	324.9	324.9	324.9	324.9
2.5°	323.0	323.0	323.0	323.0	324.0	323.0	324.0	323.0	324.0	324.0	324.9
5°	312.2	312.2	313.9	313.9	314.9	315.8	317.6	317.6	319.5	320.4	321.3
7.5°	317.6	318.5	318.5	317.6	318.5	320.4	321.3	323.0	325.8	327.7	330.4
10°	328.6	327.7	328.6	328.6	329.5	331.2	334.0	337.7	339.5	343.1	346.8
12.5°	341.3	341.3	343.1	343.1	344.9	347.7	352.2	354.0	356.8	361.3	365.0
15°	356.8	356.8	357.6	358.5	360.4	364.1	367.6	370.4	372.3	374.9	377.7
17.5°	374.1	375.8	376.8	378.6	379.5	382.3	384.0	384.9	385.9	386.8	389.5
20°	388.6	388.6	390.5	392.3	394.0	398.6	399.6	399.6	398.6	400.5	402.2
22.5°	388.6	387.7	392.3	398.6	403.1	407.7	410.4	412.2	414.1	413.2	415.9
25°	380.4	381.4	385.9	393.1	403.1	411.3	418.7	423.2	427.7	428.6	432.3
27.5°	392.3	392.3	396.8	403.1	411.3	420.4	429.5	438.6	445.1	451.4	455.9
30°	402.2	404.1	409.6	417.8	424.1	433.2	443.2	454.1	463.2	471.5	477.8
32.5°	420.4	421.4	425.0	430.5	439.6	450.5	462.4	475.1	488.8	498.7	508.7
35°	440.5	437.7	437.7	442.3	449.6	459.6	473.2	489.6	515.2	528.8	542.4
37.5°	455.9	455.9	456.8	459.6	463.2	470.6	483.2	503.3	533.4	564.3	577.9
40°	479.7	479.7	478.7	481.4	485.1	491.4	502.4	521.5	547.0	597.9	633.4
42.5°	496.9	496.0	496.9	500.5	501.5	506.1	516.9	537.9	565.2	612.5	674.4
45°	507.0	507.0	506.1	507.8	510.6	516.0	523.3	544.2	579.7	628.0	691.7
46°	507.8	507.8	507.0	508.7	511.5	516.0	522.4	542.4	581.5	632.5	692.5
47°	507.0	505.1	505.1	506.1	507.8	511.5	517.8	535.1	577.0	625.2	693.5
48°	504.2	503.3	504.2	506.1	506.1	510.6	516.0	532.4	571.5	624.3	705.3
49°	502.4	502.4	503.3	504.2	506.1	508.7	516.0	531.5	563.3	623.4	698.1
50°	498.7	498.7	499.6	501.5	500.5	501.5	508.7	520.6	549.7	616.1	689.0
51°	487.8	486.9	487.8	488.8	488.8	490.5	496.9	508.7	536.0	602.5	670.7
52°	474.1	474.1	475.1	476.9	477.8	479.7	485.1	496.0	521.5	587.9	654.4
53°	454.1	455.9	460.5	460.5	462.4	465.0	471.5	482.3	506.1	563.3	633.4
54°	444.2	445.9	450.5	453.3	455.0	460.5	466.9	476.0	496.0	544.2	626.1
55°	421.4	423.2	426.9	431.4	433.2	438.6	445.1	455.9	476.9	520.6	593.4
56°	404.1	405.0	409.6	412.2	413.2	415.9	421.4	428.6	446.8	482.3	551.5
57°	388.6	386.8	389.5	393.1	394.0	396.8	402.2	407.7	423.2	456.8	517.8
58°	365.9	362.2	365.9	368.6	370.4	373.2	378.6	383.2	396.8	427.7	481.4
59°	347.7	349.4	353.1	355.9	357.6	360.4	363.1	368.6	380.4	405.0	455.9
60°	334.9	335.8	337.7	340.3	342.2	344.9	347.7	352.2	363.1	384.9	430.5
61°	324.0	324.0	326.7	329.5	329.5	332.2	334.0	337.7	347.7	365.9	406.8
62°	314.9	313.0	315.8	319.5	319.5	322.1	323.0	326.7	334.9	350.4	387.7
63°	304.0	304.8	305.8	309.4	309.4	312.2	312.2	316.7	322.1	336.8	370.4
64°	294.0	296.7	295.7	298.5	299.4	300.3	302.2	304.8	310.4	324.9	355.0
65°	290.3	290.3	293.1	294.0	294.9	296.7	298.5	301.3	306.7	318.5	350.4
66°	284.9	284.9	286.6	288.5	288.5	290.3	293.1	295.7	300.3	311.3	340.3
67°	279.4	279.4	280.3	282.1	282.1	283.1	285.8	288.5	294.0	304.8	332.2
68°	273.9	273.9	274.9	275.8	275.8	276.7	279.4	283.1	288.5	298.5	324.9
69°	270.3	266.7	269.3	269.3	269.3	271.2	272.1	275.8	283.1	294.0	317.6
70°	261.2	262.1	263.0	263.9	263.9	263.0	263.9	268.5	274.9	285.8	309.4
72.5°	249.4	250.3	251.2	251.2	250.3	250.3	251.2	253.9	259.4	270.3	292.2



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CATALOG NUMBER: MPW-AF-D-U-ASYM-600

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
75°	232.1	233.8	233.8	233.8	232.1	232.1	233.0	234.8	238.4	248.5	267.6
77.5°	221.2	220.2	221.2	220.2	219.3	219.3	218.4	219.3	222.1	231.2	248.5
80°	208.4	205.7	206.6	204.8	204.8	203.9	202.0	202.0	204.8	215.7	229.3
82.5°	192.0	191.1	192.0	191.1	189.3	187.5	185.7	186.6	189.3	193.8	208.4
85°	177.5	179.3	178.4	176.6	173.8	172.0	170.2	171.1	172.0	175.6	189.3
87.5°	166.5	165.6	166.5	163.8	162.0	160.2	158.4	157.4	158.4	162.0	169.3
90°	156.5	156.5	155.6	154.7	152.0	151.1	148.3	147.4	147.4	151.1	160.2
92.5°	149.2	148.3	146.5	146.5	142.9	140.1	139.2	138.3	137.4	141.1	149.2
95°	137.4	136.6	136.6	135.6	132.9	131.0	129.2	128.3	129.2	131.0	138.3
97.5°	120.1	122.9	120.1	120.1	117.4	116.5	115.6	113.8	113.8	116.5	121.9
100°	112.8	111.9	111.0	110.2	109.3	108.3	107.4	106.5	106.5	109.3	112.8
102.5°	101.9	99.2	99.2	95.5	95.5	95.5	94.6	94.6	95.5	99.2	101.1
105°	85.5	84.6	84.6	83.8	83.8	82.9	82.9	81.9	83.8	84.6	88.3
107.5°	72.8	72.8	72.8	71.9	71.9	71.9	71.9	71.9	71.9	73.8	76.4
110°	61.9	61.0	61.9	61.0	61.9	61.0	61.0	61.0	62.8	63.7	68.2
112.5°	49.1	50.0	50.9	50.0	50.0	50.9	50.9	50.9	51.9	52.8	54.6
115°	40.9	38.3	38.3	39.2	38.3	39.2	39.2	40.9	40.9	42.8	42.8
117.5°	31.8	31.8	31.8	32.7	32.7	32.7	33.7	34.6	34.6	35.5	36.4
120°	23.6	24.6	22.7	25.5	23.6	24.6	24.6	25.5	28.2	26.4	27.3
122.5°	19.1	19.1	19.1	20.0	20.0	20.0	20.0	21.0	21.0	21.0	21.9
125°	15.4	16.4	17.3	17.3	16.4	17.3	17.3	17.3	18.2	20.0	20.0
127.5°	12.8	11.9	12.8	12.8	13.6	13.6	12.8	12.8	13.6	13.6	14.5
130°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	10.0	10.0	10.0	10.0
132.5°	2.8	3.7	3.7	3.7	3.7	4.5	3.7	4.5	4.5	3.7	4.5
135°	0.9	0.9	0.9	0.9	0.9	1.8	1.8	2.8	1.8	0.9	1.8
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°	0.9	0.9	0.9	0.0	0.9	1.8	0.9	0.9	0.9	0.0	0.9
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°	324.9	324.9	324.9	324.9	324.9	324.9	324.9	324.9	324.9	324.9	324.9
2.5°	324.9	324.9	325.8	324.9	324.9	324.9	325.8	325.8	325.8	326.7	326.7
5°	321.3	324.0	324.0	325.8	326.7	327.7	328.6	327.7	328.6	328.6	329.5
7.5°	331.2	331.2	334.0	334.0	334.9	334.9	335.8	333.1	333.1	332.2	330.4
10°	350.4	352.2	353.1	354.0	353.1	352.2	350.4	350.4	350.4	348.5	347.7
12.5°	366.7	370.4	372.3	374.1	373.2	373.2	371.3	370.4	370.4	370.4	368.6
15°	381.4	384.0	386.8	388.6	388.6	387.7	388.6	385.9	385.9	383.2	380.4
17.5°	393.1	396.8	398.6	401.3	399.6	398.6	397.7	395.0	393.1	390.5	386.8
20°	405.9	408.7	411.3	414.1	413.2	411.3	408.7	405.9	402.2	399.6	394.0
22.5°	419.5	423.2	426.9	428.6	428.6	426.9	423.2	420.4	415.0	410.4	404.1
25°	436.0	440.5	445.1	446.8	447.7	445.9	440.5	436.8	432.3	426.0	419.5
27.5°	460.5	466.9	471.5	473.2	473.2	472.3	467.8	464.1	456.8	451.4	442.3
30°	484.2	495.1	503.3	511.5	507.8	504.2	501.5	496.0	486.9	477.8	466.0
32.5°	522.4	536.0	550.7	557.0	557.0	554.2	547.9	542.4	535.1	521.5	503.3
35°	560.6	577.9	595.2	597.9	597.0	596.1	590.7	590.7	583.4	561.5	540.6
37.5°	597.9	631.6	651.6	658.0	657.0	657.0	648.9	646.2	630.6	607.0	582.5
40°	643.4	690.8	729.9	740.8	738.1	733.6	722.6	717.2	697.1	660.7	626.1
42.5°	699.0	749.0	806.4	825.4	815.5	807.2	807.2	791.8	773.6	735.4	689.0
45°	747.2	789.1	873.7	901.9	886.4	870.0	876.5	870.0	848.2	799.9	749.9
46°	759.0	810.0	909.2	936.5	917.4	900.1	907.4	898.3	874.6	823.7	760.9
47°	776.3	829.1	935.6	967.4	946.5	920.1	938.4	926.5	895.5	841.9	772.6
48°	784.5	844.5	961.1	990.2	982.0	945.6	966.5	946.5	923.7	854.6	782.7
49°	780.0	842.7	962.9	1002.0	992.9	968.3	983.0	962.0	921.1	867.4	786.3
50°	776.3	841.9	959.2	1006.6	1012.0	995.6	995.6	980.2	930.2	856.4	797.3
51°	758.1	834.5	944.7	993.8	1018.4	1004.7	1017.5	997.5	944.7	855.5	781.7
52°	731.7	822.8	929.2	983.0	1000.2	992.0	1015.7	1007.5	951.0	855.5	763.5
53°	707.2	810.9	901.0	963.8	977.4	962.9	982.0	987.5	922.8	847.3	735.4
54°	682.6	776.3	890.1	978.4	967.4	948.3	974.7	973.8	906.4	802.7	710.7
55°	648.9	730.8	845.5	942.9	966.5	949.2	970.2	952.0	865.5	761.8	671.7
56°	609.8	692.5	772.6	867.4	909.2	926.5	944.7	920.1	825.4	729.0	638.9
57°	567.9	635.3	703.5	784.5	849.2	862.8	875.5	861.8	770.0	682.6	602.5
58°	527.8	587.0	646.2	720.8	808.1	830.0	830.0	820.0	720.8	641.6	566.1
59°	500.5	552.4	602.5	672.6	731.7	743.6	750.8	745.3	673.5	601.6	536.9
60°	471.5	516.9	567.0	627.1	669.8	676.2	678.0	665.3	610.7	556.1	497.9
61°	444.2	486.9	527.8	580.6	619.8	628.0	628.0	611.6	566.1	513.3	466.9
62°	423.2	460.5	495.1	539.7	577.9	587.9	583.4	570.6	530.6	481.4	441.4
63°	404.1	438.6	469.6	506.1	536.9	546.1	541.6	532.4	497.9	455.9	420.4
64°	386.8	417.8	445.9	477.8	505.1	513.3	505.1	498.7	469.6	429.5	397.7
65°	378.6	407.7	432.3	459.6	480.6	485.1	479.7	469.6	445.9	413.2	382.3
66°	369.5	395.9	418.7	441.4	457.8	462.4	457.8	447.7	425.0	395.9	367.6
67°	359.5	384.0	405.9	426.9	440.5	443.2	440.5	431.4	408.7	381.4	355.0
68°	351.3	374.9	394.0	413.2	424.1	427.7	426.9	416.9	392.3	367.6	343.1
69°	344.0	365.9	385.9	401.3	412.2	413.2	413.2	404.1	381.4	357.6	334.0
70°	335.8	356.8	374.1	390.5	399.6	401.3	401.3	392.3	372.3	347.7	322.1
72.5°	319.5	337.7	355.9	368.6	377.7	380.4	383.2	374.1	351.3	328.6	304.8



REPORT NUMBER: P212603

CATALOG NUMBER: MPW-AF-D-U-ASYM-600

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
75°	296.7	313.0	330.4	342.2	352.2	355.0	358.5	352.2	329.5	306.7	285.8
77.5°	273.9	290.3	307.6	322.1	333.1	336.8	339.5	333.1	310.4	289.4	266.7
80°	251.2	265.8	284.9	298.5	310.4	313.0	316.7	306.7	289.4	265.8	244.8
82.5°	230.3	243.9	261.2	274.9	286.6	291.2	289.4	282.1	263.0	242.1	223.9
85°	208.4	221.2	236.6	248.5	260.2	263.0	262.1	253.9	237.5	219.3	203.0
87.5°	190.2	202.0	214.8	223.0	233.8	235.7	234.8	226.6	213.0	198.4	183.8
90°	174.7	184.7	196.6	203.0	210.2	215.7	213.9	205.7	192.9	181.1	166.5
92.5°	163.8	171.1	180.2	186.6	191.1	194.8	194.8	187.5	176.6	164.7	153.9
95°	148.3	154.7	163.0	167.5	171.1	175.6	175.6	170.2	161.1	152.0	142.9
97.5°	131.0	135.6	140.1	143.8	146.5	150.2	148.3	145.6	140.1	132.9	126.5
100°	116.5	118.4	121.0	123.8	124.7	127.5	128.3	127.5	123.8	120.1	116.5
102.5°	103.7	105.6	105.6	106.5	106.5	105.6	106.5	105.6	104.6	105.6	101.9
105°	88.3	90.1	88.3	86.4	86.4	87.4	88.3	89.2	89.2	90.1	89.2
107.5°	78.3	78.3	77.3	75.5	75.5	75.5	75.5	75.5	77.3	78.3	77.3
110°	67.3	65.6	65.6	64.7	63.7	63.7	64.7	63.7	64.7	66.4	67.3
112.5°	55.5	54.6	53.7	52.8	50.9	51.9	53.7	53.7	55.5	56.5	56.5
115°	42.8	43.7	44.6	41.8	40.9	40.9	40.9	42.8	43.7	43.7	45.5
117.5°	36.4	37.3	36.4	36.4	35.5	35.5	36.4	36.4	38.3	40.0	40.0
120°	28.2	27.3	27.3	29.2	27.3	28.2	29.2	28.2	28.2	30.9	32.7
122.5°	22.7	23.6	23.6	22.7	23.6	24.6	23.6	24.6	23.6	24.6	25.5
125°	21.0	21.0	21.0	21.0	21.0	21.9	22.7	22.7	21.9	21.9	22.7
127.5°	15.4	16.4	16.4	17.3	17.3	17.3	18.2	18.2	17.3	17.3	17.3
130°	11.9	11.9	12.8	15.4	13.6	13.6	14.5	13.6	14.5	14.5	12.8
132.5°	4.5	5.4	5.4	6.3	7.3	8.2	8.2	8.2	7.3	8.2	7.3
135°	2.8	1.8	2.8	3.7	2.8	4.5	4.5	3.7	4.5	4.5	4.5
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°	1.8	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.9	1.8	0.9
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: P212603

CATALOG NUMBER: MPW-AF-D-U-ASYM-600

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	324.9	324.9	324.9	324.9	324.9	324.9	324.9	324.9	324.9	324.9	324.9
2.5°	326.7	326.7	325.8	326.7	327.7	326.7	326.7	326.7	325.8	326.7	326.7
5°	329.5	329.5	330.4	329.5	330.4	330.4	330.4	329.5	328.6	328.6	326.7
7.5°	329.5	328.6	329.5	329.5	328.6	325.8	323.0	320.4	318.5	317.6	316.7
10°	345.9	343.1	339.5	334.9	330.4	325.8	322.1	317.6	313.0	311.3	307.6
12.5°	363.1	359.5	354.0	351.3	345.9	341.3	334.9	329.5	324.0	316.7	313.0
15°	376.8	374.1	369.5	364.1	355.9	348.5	341.3	334.9	329.5	324.9	320.4
17.5°	385.9	381.4	375.8	367.6	362.2	355.9	349.4	344.0	339.5	334.0	329.5
20°	390.5	384.9	379.5	374.9	369.5	363.1	358.5	352.2	346.8	339.5	334.9
22.5°	399.6	394.0	390.5	382.3	375.8	371.3	366.7	361.3	355.0	346.8	338.6
25°	412.2	405.9	398.6	392.3	387.7	382.3	374.9	365.0	357.6	350.4	344.9
27.5°	434.1	425.0	415.0	408.7	402.2	393.1	384.9	377.7	370.4	363.1	355.0
30°	452.3	437.7	427.7	419.5	407.7	400.5	392.3	384.0	375.8	369.5	364.1
32.5°	486.0	466.9	450.5	438.6	426.0	416.9	408.7	402.2	394.0	386.8	380.4
35°	516.9	495.1	475.1	456.8	445.1	436.0	426.0	416.9	408.7	401.3	395.9
37.5°	549.7	520.6	496.0	478.7	466.9	455.9	445.9	436.8	429.5	423.2	417.8
40°	590.7	552.4	524.3	505.1	490.5	478.7	467.8	457.8	451.4	445.1	440.5
42.5°	646.2	589.7	557.0	536.0	516.0	503.3	491.4	484.2	477.8	470.6	466.9
45°	683.4	624.3	577.9	551.5	535.1	524.3	516.9	508.7	507.0	499.6	493.3
46°	692.5	626.1	583.4	551.5	539.7	529.7	521.5	516.9	513.3	507.8	501.5
47°	691.7	624.3	580.6	551.5	540.6	533.4	526.9	526.0	518.7	513.3	510.6
48°	690.8	633.4	586.2	557.9	548.8	539.7	533.4	529.7	526.0	520.6	515.2
49°	689.0	629.8	587.0	563.3	555.2	545.1	537.9	533.4	528.8	524.3	519.7
50°	689.9	628.9	585.2	567.9	560.6	551.5	542.4	536.0	532.4	527.8	522.4
51°	685.3	622.5	580.6	567.0	561.5	549.7	541.6	536.9	534.2	529.7	525.1
52°	675.2	616.1	576.1	561.5	557.9	546.1	536.9	533.4	530.6	526.0	521.5
53°	648.9	590.7	553.3	543.3	538.8	530.6	527.8	526.0	524.3	521.5	516.0
54°	621.6	569.7	541.6	532.4	528.8	522.4	518.7	521.5	518.7	518.7	513.3
55°	598.8	550.7	527.8	519.7	516.0	510.6	507.0	507.8	507.8	507.0	501.5
56°	577.9	537.9	515.2	506.1	502.4	497.9	496.0	496.0	496.0	494.2	489.6
57°	550.7	516.9	502.4	496.0	492.3	487.8	487.8	486.9	485.1	482.3	480.6
58°	521.5	486.9	473.2	466.0	465.0	461.5	462.4	463.2	463.2	460.5	459.6
59°	492.3	462.4	448.7	444.2	440.5	440.5	441.4	442.3	443.2	443.2	440.5
60°	459.6	432.3	421.4	418.7	417.8	417.8	417.8	420.4	422.3	423.2	423.2
61°	435.1	410.4	399.6	396.8	396.8	396.8	397.7	400.5	401.3	402.2	401.3
62°	412.2	389.5	379.5	378.6	378.6	379.5	379.5	382.3	382.3	383.2	382.3
63°	390.5	370.4	363.1	360.4	362.2	362.2	361.3	364.1	366.7	365.9	364.1
64°	368.6	352.2	344.9	344.0	343.1	344.0	343.1	345.9	346.8	346.8	348.5
65°	357.6	342.2	334.0	332.2	334.0	333.1	335.8	336.8	337.7	338.6	337.7
66°	345.9	331.2	324.9	321.3	322.1	322.1	324.9	325.8	327.7	326.7	329.5
67°	335.8	320.4	313.9	312.2	312.2	312.2	313.0	315.8	316.7	318.5	318.5
68°	324.9	311.3	306.7	304.8	304.8	304.0	304.8	307.6	308.5	310.4	311.3
69°	315.8	303.1	298.5	295.7	297.6	295.7	296.7	301.3	300.3	302.2	307.6
70°	307.6	294.9	291.2	291.2	289.4	290.3	290.3	292.2	293.1	296.7	295.7
72.5°	292.2	281.2	275.8	276.7	276.7	276.7	277.6	279.4	280.3	283.1	284.9



REPORT NUMBER: P212603
 CATALOG NUMBER: MPW-AF-D-U-ASYM-600

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°	
75°	270.3	261.2	258.5	258.5	258.5	260.2	260.2	261.2	265.8	267.6	267.6	0°
77.5°	254.8	245.7	243.0	243.0	244.8	245.7	247.6	249.4	251.2	254.8	255.7	2.5°
80°	233.8	226.6	225.7	226.6	228.4	230.3	232.1	236.6	238.4	239.4	244.8	5°
82.5°	215.7	208.4	208.4	210.2	213.0	214.8	218.4	220.2	222.1	224.8	226.6	7.5°
85°	194.8	189.3	191.1	192.9	197.5	198.4	200.2	203.9	206.6	207.5	210.2	10°
87.5°	176.6	173.8	174.7	177.5	180.2	184.7	186.6	188.4	192.0	193.8	193.8	12.5°
90°	162.0	159.3	162.0	165.6	168.4	170.2	172.9	174.7	177.5	178.4	179.3	15°
92.5°	150.2	148.3	151.1	154.7	157.4	158.4	160.2	164.7	165.6	167.5	167.5	17.5°
95°	139.2	138.3	141.1	143.8	146.5	149.2	151.1	153.9	156.5	157.4	157.4	20°
97.5°	123.8	122.9	125.6	131.0	132.0	132.9	134.7	136.6	140.1	141.1	140.1	22.5°
100°	115.6	114.7	115.6	119.2	120.1	123.8	124.7	127.5	128.3	130.1	129.2	25°
102.5°	100.1	101.1	102.8	102.8	106.5	106.5	109.3	111.0	111.9	114.7	118.4	27.5°
105°	89.2	89.2	90.1	90.1	92.0	92.8	92.8	95.5	97.4	97.4	98.3	30°
107.5°	78.3	78.3	79.2	80.1	81.0	81.0	81.9	83.8	83.8	85.5	85.5	32.5°
110°	67.3	69.2	68.2	68.2	68.2	70.1	71.0	71.0	71.9	72.8	72.8	35°
112.5°	57.3	57.3	57.3	58.2	59.1	59.1	60.0	60.0	61.0	61.9	61.9	37.5°
115°	46.4	46.4	47.4	46.4	45.5	46.4	46.4	47.4	48.3	47.4	52.8	40°
117.5°	40.9	40.0	39.2	40.0	39.2	39.2	39.2	40.0	40.9	40.9	42.8	42.5°
120°	30.1	30.1	30.1	30.1	31.8	30.1	30.1	29.2	30.9	30.1	30.9	45°
122.5°	25.5	24.6	24.6	24.6	24.6	24.6	24.6	25.5	24.6	25.5	24.6	46°
125°	21.9	21.9	23.6	21.9	21.0	21.9	21.9	21.9	21.9	22.7	26.4	47°
127.5°	17.3	18.2	17.3	17.3	17.3	18.2	17.3	17.3	18.2	19.1	18.2	48°
130°	14.5	12.8	13.6	13.6	13.6	13.6	13.6	13.6	14.5	16.4	15.4	49°
132.5°	7.3	7.3	7.3	8.2	9.1	9.1	8.2	9.1	9.1	10.0	9.1	50°
135°	5.4	6.3	4.5	4.5	6.3	5.4	7.3	6.3	6.3	6.3	5.4	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°	1.8	1.8	0.9	0.9	0.9	1.8	0.9	1.8	0.9	1.8	1.8	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: P212603
 NUMBER: MPW-AF-D-U-ASYM-600

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

165°	170°	175°	180°
324.9	324.9	324.9	324.9
326.7	324.9	325.8	325.8
326.7	326.7	326.7	324.9
314.9	315.8	314.9	314.9
305.8	304.0	303.1	302.2
311.3	310.4	309.4	309.4
317.6	315.8	314.9	314.9
324.9	323.0	320.4	324.0
331.2	328.6	325.8	325.8
333.1	330.4	327.7	326.7
337.7	333.1	330.4	330.4
349.4	344.9	343.1	342.2
357.6	354.0	349.4	348.5
374.9	371.3	369.5	367.6
392.3	388.6	386.8	384.9
415.0	409.6	406.8	405.9
436.8	432.3	429.5	432.3
462.4	457.8	455.9	454.1
489.6	484.2	478.7	478.7
496.9	492.3	489.6	488.8
504.2	499.6	494.2	492.3
512.4	506.1	501.5	501.5
514.2	509.6	505.1	503.3
517.8	514.2	508.7	507.8
519.7	514.2	508.7	507.8
516.9	512.4	507.8	507.0
513.3	507.8	502.4	506.1
508.7	504.2	499.6	498.7
498.7	494.2	489.6	489.6
486.9	483.2	478.7	476.9
477.8	470.6	464.1	465.0
455.0	451.4	446.8	445.9
436.8	436.0	433.2	432.3
421.4	418.7	416.9	415.9
398.6	398.6	395.0	394.0
381.4	379.5	377.7	377.7
365.9	364.1	363.1	364.1
348.5	349.4	346.8	348.5
339.5	340.3	339.5	337.7
329.5	330.4	328.6	329.5
321.3	321.3	320.4	319.5
313.9	313.9	312.2	312.2
304.8	306.7	305.8	304.8
299.4	299.4	300.3	297.6
285.8	287.6	287.6	287.6

CANDELA DISTRIBUTION:

	165°
75°	269.3
77.5°	257.6
80°	243.0
82.5°	227.5
85°	211.1
87.5°	193.8
90°	181.1
92.5°	167.5
95°	159.3
97.5°	142.0
100°	131.0
102.5°	114.7
105°	98.3
107.5°	85.5
110°	72.8
112.5°	62.8
115°	49.1
117.5°	41.8
120°	31.8
122.5°	26.4
125°	23.6
127.5°	18.2
130°	14.5
132.5°	9.1
135°	7.3
137.5°	0.0
140°	1.8
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-600

TION (continued):

170°	175°	180°
270.3	271.2	271.2
259.4	259.4	258.5
243.9	243.0	243.0
228.4	227.5	226.6
212.1	211.1	209.3
194.8	194.8	192.9
182.0	180.2	180.2
168.4	169.3	166.5
158.4	158.4	157.4
141.1	141.1	142.9
131.0	130.1	130.1
116.5	113.8	113.8
98.3	98.3	97.4
85.5	86.4	85.5
74.7	73.8	72.8
61.9	62.8	62.8
49.1	50.0	48.3
42.8	42.8	42.8
31.8	31.8	34.6
26.4	25.5	26.4
23.6	22.7	21.9
18.2	20.0	18.2
15.4	16.4	15.4
10.0	9.1	10.0
6.3	5.4	5.4
0.0	0.0	0.0
0.9	0.9	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0

(END OF REPORT)