

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: P212604

Luminaire Tested: **MPW-AF-D-U-ASYM-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P212604
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-7050-600
Description: WOODBRIDGE LED POST-TOP LUMINAIRE
(1) 70 CRI, 5000K, 615mA LIGHTSQUARE WITH 16 LEDS AND ASYMMETRIC OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2784 lumens
Efficiency: N/A
Efficacy: 81.9 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 (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

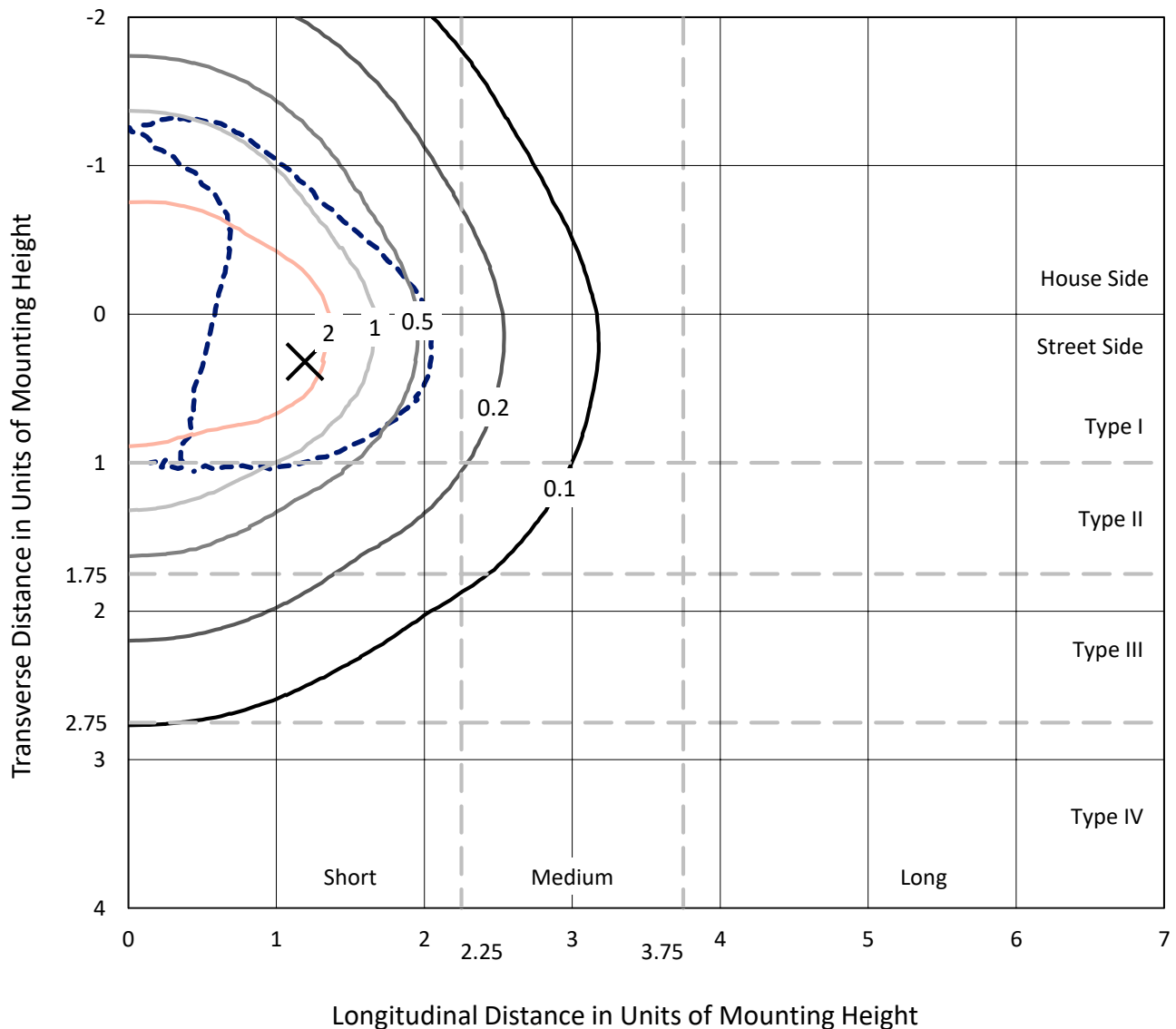


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

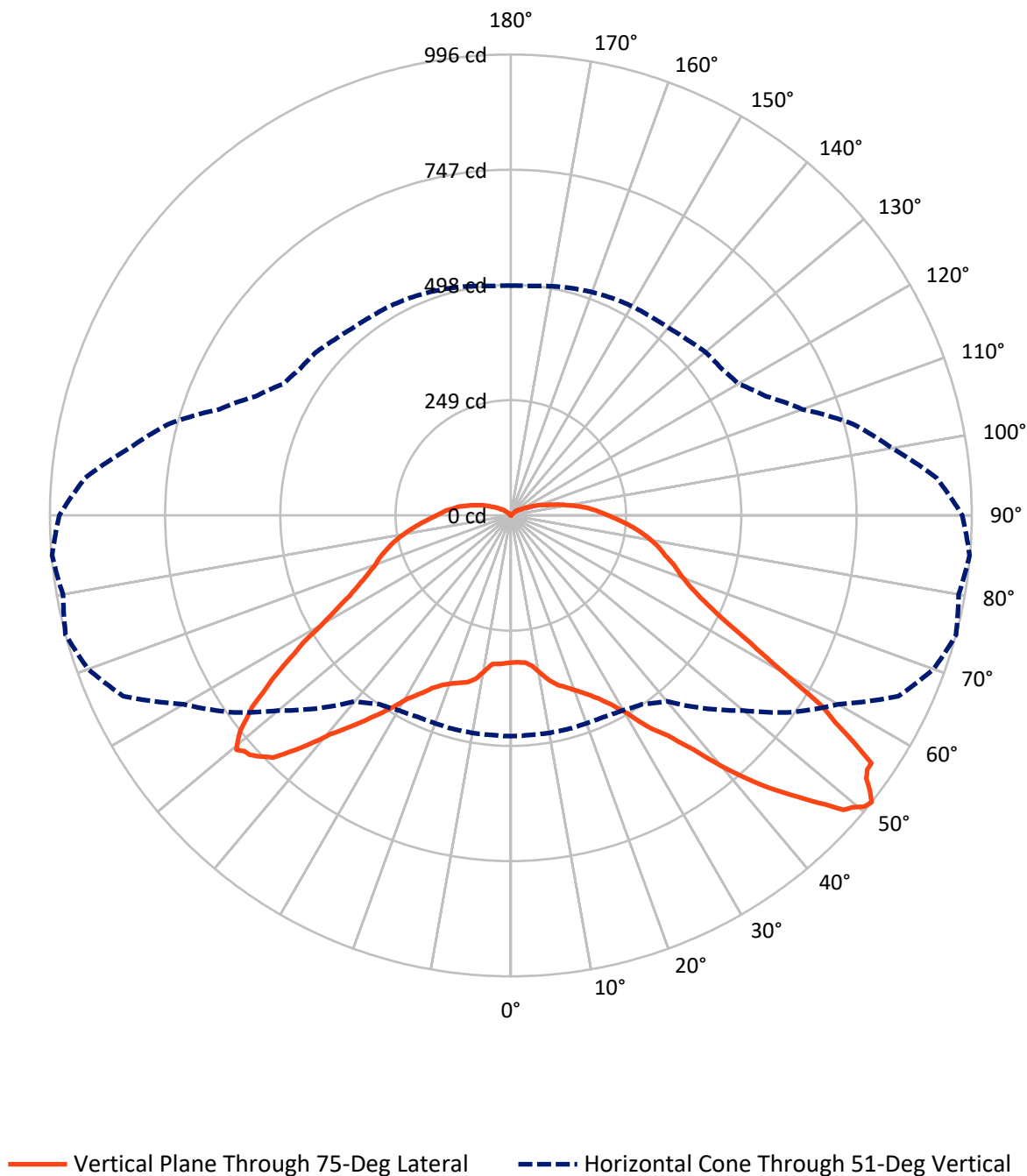


Based on 10 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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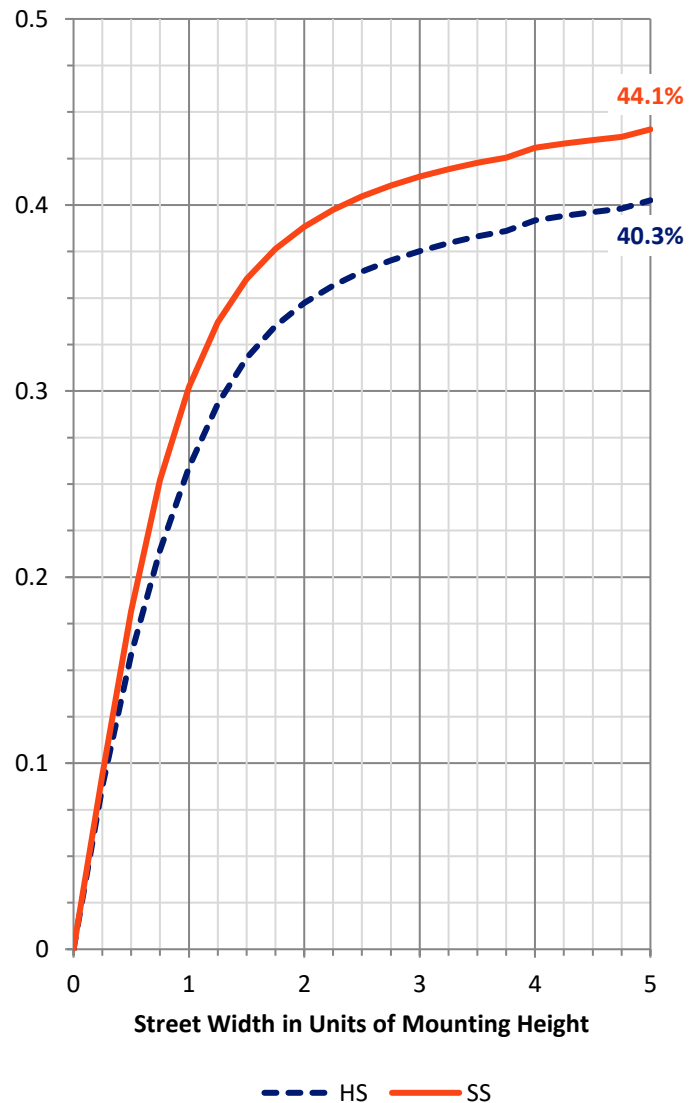
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1184.2	165.0	1349.3
	% Fixture	42.5	5.9	48.5
Street Side	Lumens	1281.6	153.1	1434.7
	% Fixture	46.0	5.5	51.5
Total	Lumens	2465.8	318.2	2784.0
	% Fixture	88.6	11.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.5	1.1
10°-20°	100.6	3.6
20°-30°	184.2	6.6
30°-40°	303.9	10.9
40°-50°	472.9	17.0
50°-60°	510.8	18.3
60°-70°	355.7	12.8
70°-80°	287.1	10.3
80°-90°	220.1	7.9
90°-100°	157.0	5.6
100°-110°	94.6	3.4
110°-120°	45.1	1.6
120°-130°	17.9	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°	2465.8	88.6
0°-180°	2784.0	100.0

Coefficient of Utilization



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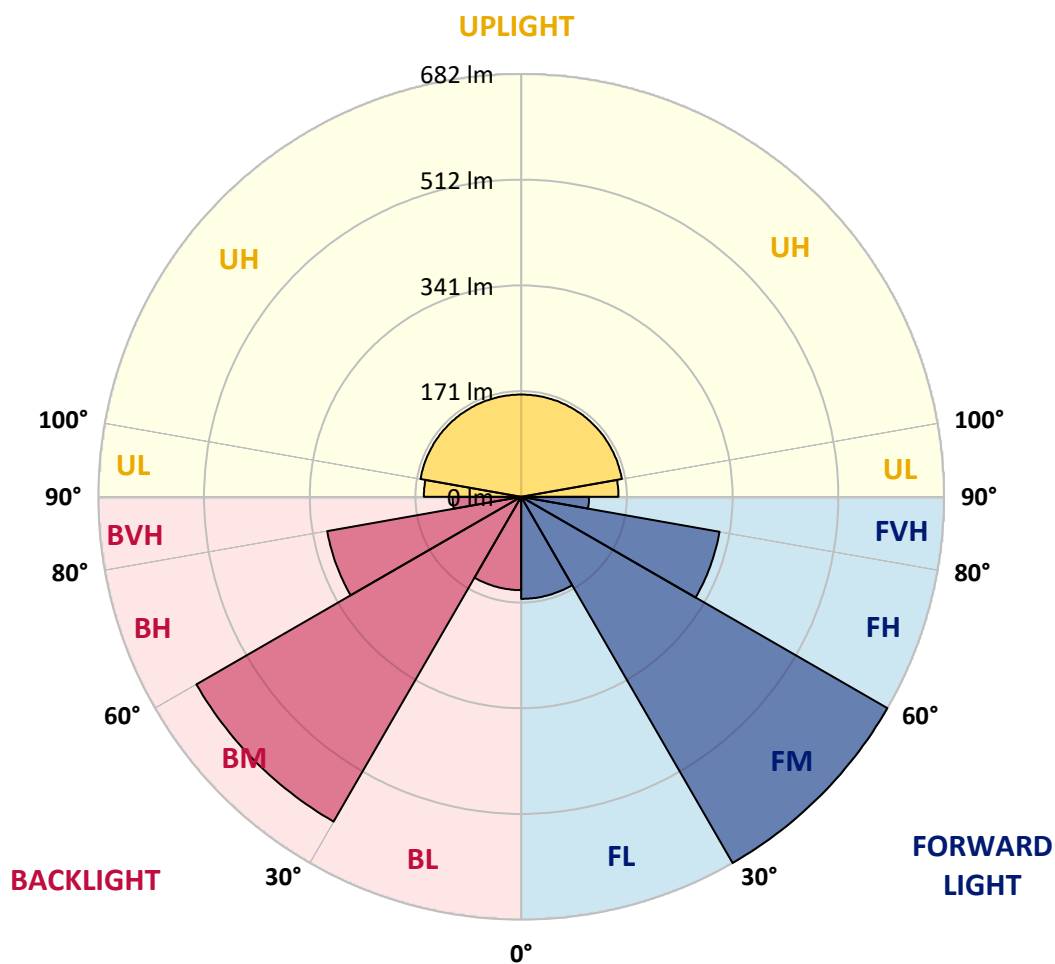
CATALOG NUMBER: MPW-AF-D-U-ASYM-7050-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	164.7	5.9			
FM	(30°-60°)	682.3	24.5			
FH	(60°-80°)	325.0	11.7			G0/660
FVH	(80°-90°)	109.6	3.9			G2/225
BL	(0°-30°)	150.6	5.4	B1/500		
BM	(30°-60°)	605.3	21.7	B1/1000		
BH	(60°-80°)	317.8	11.4	B1/500		G1/500
BVH	(80°-90°)	110.6	4.0			G2/225
UL	(90°-100°)	157.0	5.6		U3/500	
UH	(100°-180°)	165.0	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°	317.6	317.6	317.6	317.6	317.6	317.6	317.6	317.6	317.6	317.6	317.6
2.5°	315.8	315.8	315.8	315.8	316.7	315.8	316.7	315.8	316.7	316.7	317.6
5°	305.2	305.2	306.9	306.9	307.8	308.7	310.5	310.5	312.3	313.2	314.1
7.5°	310.5	311.4	311.4	310.5	311.4	313.2	314.1	315.8	318.5	320.3	323.0
10°	321.2	320.3	321.2	321.2	322.1	323.8	326.5	330.1	331.9	335.4	339.0
12.5°	333.6	333.6	335.4	335.4	337.2	339.9	344.3	346.1	348.8	353.2	356.8
15°	348.8	348.8	349.6	350.5	352.3	355.9	359.4	362.1	363.9	366.5	369.2
17.5°	365.7	367.4	368.3	370.1	371.0	373.7	375.4	376.3	377.2	378.1	380.8
20°	379.9	379.9	381.7	383.5	385.2	389.7	390.6	390.6	389.7	391.5	393.2
22.5°	379.9	379.0	383.5	389.7	394.1	398.6	401.2	403.0	404.8	403.9	406.6
25°	371.9	372.8	377.2	384.3	394.1	402.1	409.3	413.7	418.1	419.0	422.6
27.5°	383.5	383.5	387.9	394.1	402.1	411.0	419.9	428.8	435.1	441.3	445.7
30°	393.2	395.0	400.4	408.4	414.6	423.5	433.3	443.9	452.8	460.9	467.1
32.5°	411.0	411.9	415.5	420.8	429.7	440.4	452.0	464.4	477.8	487.5	497.3
35°	430.6	427.9	427.9	432.4	439.5	449.3	462.6	478.6	503.6	516.9	530.2
37.5°	445.7	445.7	446.6	449.3	452.8	460.0	472.4	492.0	521.4	551.6	564.9
40°	468.9	468.9	468.0	470.6	474.2	480.4	491.1	509.8	534.7	584.5	619.2
42.5°	485.8	484.9	485.8	489.3	490.2	494.7	505.3	525.8	552.5	598.8	659.3
45°	495.6	495.6	494.7	496.4	499.1	504.4	511.6	532.0	566.7	613.9	676.2
46°	496.4	496.4	495.6	497.3	500.0	504.4	510.7	530.2	568.5	618.3	677.0
47°	495.6	493.8	493.8	494.7	496.4	500.0	506.2	523.1	564.1	611.2	677.9
48°	492.9	492.0	492.9	494.7	494.7	499.1	504.4	520.5	558.7	610.3	689.5
49°	491.1	491.1	492.0	492.9	494.7	497.3	504.4	519.6	550.7	609.4	682.4
50°	487.5	487.5	488.4	490.2	489.3	490.2	497.3	508.9	537.4	602.3	673.5
51°	476.9	476.0	476.9	477.8	477.8	479.5	485.8	497.3	524.0	589.0	655.7
52°	463.5	463.5	464.4	466.2	467.1	468.9	474.2	484.9	509.8	574.7	639.7
53°	443.9	445.7	450.2	450.2	452.0	454.6	460.9	471.5	494.7	550.7	619.2
54°	434.2	435.9	440.4	443.1	444.8	450.2	456.4	465.3	484.9	532.0	612.1
55°	411.9	413.7	417.3	421.7	423.5	428.8	435.1	445.7	466.2	508.9	580.1
56°	395.0	395.9	400.4	403.0	403.9	406.6	411.9	419.0	436.8	471.5	539.1
57°	379.9	378.1	380.8	384.3	385.2	387.9	393.2	398.6	413.7	446.6	506.2
58°	357.7	354.1	357.7	360.3	362.1	364.8	370.1	374.6	387.9	418.1	470.6
59°	339.9	341.6	345.2	347.9	349.6	352.3	355.0	360.3	371.9	395.9	445.7
60°	327.4	328.3	330.1	332.7	334.5	337.2	339.9	344.3	355.0	376.3	420.8
61°	316.7	316.7	319.4	322.1	322.1	324.7	326.5	330.1	339.9	357.7	397.7
62°	307.8	306.0	308.7	312.3	312.3	314.9	315.8	319.4	327.4	342.5	379.0
63°	297.2	298.0	298.9	302.5	302.5	305.2	305.2	309.6	314.9	329.2	362.1
64°	287.4	290.0	289.1	291.8	292.7	293.6	295.4	298.0	303.4	317.6	347.0
65°	283.8	283.8	286.5	287.4	288.3	290.0	291.8	294.5	299.8	311.4	342.5
66°	278.5	278.5	280.2	282.0	282.0	283.8	286.5	289.1	293.6	304.3	332.7
67°	273.1	273.1	274.0	275.8	275.8	276.7	279.4	282.0	287.4	298.0	324.7
68°	267.8	267.8	268.7	269.6	269.6	270.5	273.1	276.7	282.0	291.8	317.6
69°	264.2	260.7	263.3	263.3	263.3	265.1	266.0	269.6	276.7	287.4	310.5
70°	255.3	256.2	257.1	258.0	258.0	257.1	258.0	262.5	268.7	279.4	302.5
72.5°	243.8	244.7	245.6	245.6	244.7	244.7	245.6	248.2	253.6	264.2	285.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
75°	226.9	228.6	228.6	228.6	226.9	226.9	227.8	229.5	233.1	242.9	261.6
77.5°	216.2	215.3	216.2	215.3	214.4	214.4	213.5	214.4	217.1	226.0	242.9
80°	203.7	201.1	202.0	200.2	200.2	199.3	197.5	197.5	200.2	210.9	224.2
82.5°	187.7	186.8	187.7	186.8	185.1	183.3	181.5	182.4	185.1	189.5	203.7
85°	173.5	175.3	174.4	172.6	169.9	168.1	166.4	167.3	168.1	171.7	185.1
87.5°	162.8	161.9	162.8	160.1	158.4	156.6	154.8	153.9	154.8	158.4	165.5
90°	153.0	153.0	152.1	151.2	148.6	147.7	145.0	144.1	144.1	147.7	156.6
92.5°	145.9	145.0	143.2	143.2	139.7	137.0	136.1	135.2	134.3	137.9	145.9
95°	134.3	133.5	133.5	132.6	129.9	128.1	126.3	125.4	126.3	128.1	135.2
97.5°	117.4	120.1	117.4	117.4	114.8	113.9	113.0	111.2	111.2	113.9	119.2
100°	110.3	109.4	108.5	107.7	106.8	105.9	105.0	104.1	104.1	106.8	110.3
102.5°	99.6	97.0	97.0	93.4	93.4	93.4	92.5	92.5	93.4	97.0	98.8
105°	83.6	82.7	82.7	81.9	81.9	81.0	81.0	80.1	81.9	82.7	86.3
107.5°	71.2	71.2	71.2	70.3	70.3	70.3	70.3	70.3	70.3	72.1	74.7
110°	60.5	59.6	60.5	59.6	60.5	59.6	59.6	59.6	61.4	62.3	66.7
112.5°	48.0	48.9	49.8	48.9	48.9	49.8	49.8	49.8	50.7	51.6	53.4
115°	40.0	37.4	37.4	38.3	37.4	38.3	38.3	40.0	40.0	41.8	41.8
117.5°	31.1	31.1	31.1	32.0	32.0	32.0	32.9	33.8	33.8	34.7	35.6
120°	23.1	24.0	22.2	24.9	23.1	24.0	24.0	24.9	27.6	25.8	26.7
122.5°	18.7	18.7	18.7	19.6	19.6	19.6	19.6	20.5	20.5	20.5	21.4
125°	15.1	16.0	16.9	16.9	16.0	16.9	16.9	16.9	17.8	19.6	19.6
127.5°	12.5	11.6	12.5	12.5	13.3	13.3	12.5	12.5	13.3	13.3	14.2
130°	8.9	8.9	8.9	8.9	8.9	8.9	8.9	9.8	9.8	9.8	9.8
132.5°	2.7	3.6	3.6	3.6	3.6	4.4	3.6	4.4	4.4	3.6	4.4
135°	0.9	0.9	0.9	0.9	0.9	1.8	1.8	2.7	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°	317.6	317.6	317.6	317.6	317.6	317.6	317.6	317.6	317.6	317.6	317.6
2.5°	317.6	317.6	318.5	317.6	317.6	317.6	318.5	318.5	318.5	319.4	319.4
5°	314.1	316.7	316.7	318.5	319.4	320.3	321.2	320.3	321.2	321.2	322.1
7.5°	323.8	323.8	326.5	326.5	327.4	327.4	328.3	325.6	325.6	324.7	323.0
10°	342.5	344.3	345.2	346.1	345.2	344.3	342.5	342.5	342.5	340.7	339.9
12.5°	358.5	362.1	363.9	365.7	364.8	364.8	363.0	362.1	362.1	362.1	360.3
15°	372.8	375.4	378.1	379.9	379.9	379.0	379.9	377.2	377.2	374.6	371.9
17.5°	384.3	387.9	389.7	392.3	390.6	389.7	388.8	386.1	384.3	381.7	378.1
20°	396.8	399.5	402.1	404.8	403.9	402.1	399.5	396.8	393.2	390.6	385.2
22.5°	410.1	413.7	417.3	419.0	419.0	417.3	413.7	411.0	405.7	401.2	395.0
25°	426.2	430.6	435.1	436.8	437.7	435.9	430.6	427.0	422.6	416.4	410.1
27.5°	450.2	456.4	460.9	462.6	462.6	461.7	457.3	453.7	446.6	441.3	432.4
30°	473.3	484.0	492.0	500.0	496.4	492.9	490.2	484.9	476.0	467.1	455.5
32.5°	510.7	524.0	538.3	544.5	544.5	541.8	535.6	530.2	523.1	509.8	492.0
35°	548.0	564.9	581.8	584.5	583.6	582.7	577.4	577.4	570.3	548.9	528.5
37.5°	584.5	617.4	637.0	643.2	642.3	642.3	634.3	631.7	616.5	593.4	569.4
40°	629.0	675.3	713.5	724.2	721.5	717.1	706.4	701.1	681.5	645.9	612.1
42.5°	683.3	732.2	788.3	806.9	797.2	789.1	789.1	774.0	756.2	718.9	673.5
45°	730.4	771.4	854.1	881.7	866.5	850.5	856.8	850.5	829.2	782.0	733.1
46°	742.0	791.8	888.8	915.5	896.8	879.9	887.0	878.1	855.0	805.2	743.8
47°	758.9	810.5	914.6	945.7	925.3	899.5	917.3	905.7	875.4	823.0	755.3
48°	766.9	825.6	939.5	968.0	960.0	924.4	944.8	925.3	903.0	835.4	765.1
49°	762.5	823.8	941.3	979.5	970.6	946.6	960.9	940.4	900.4	847.9	768.7
50°	758.9	823.0	937.7	984.0	989.3	973.3	973.3	958.2	909.3	837.2	779.4
51°	741.1	815.8	923.5	971.5	995.6	982.2	994.7	975.1	923.5	836.3	764.2
52°	715.3	804.3	908.4	960.9	977.8	969.7	992.9	984.9	929.7	836.3	746.4
53°	691.3	792.7	880.8	942.2	955.5	941.3	960.0	965.3	902.1	828.3	718.9
54°	667.3	758.9	870.1	956.4	945.7	927.0	952.8	952.0	886.1	784.7	694.8
55°	634.3	714.4	826.5	921.7	944.8	927.9	948.4	930.6	846.1	744.7	656.6
56°	596.1	677.0	755.3	847.9	888.8	905.7	923.5	899.5	806.9	712.6	624.6
57°	555.2	621.0	687.7	766.9	830.1	843.4	855.9	842.5	752.7	667.3	589.0
58°	516.0	573.8	631.7	704.6	790.0	811.4	811.4	801.6	704.6	627.2	553.4
59°	489.3	540.0	589.0	657.5	715.3	726.9	734.0	728.6	658.4	588.1	524.9
60°	460.9	505.3	554.3	613.0	654.8	661.0	662.8	650.4	597.0	543.6	486.7
61°	434.2	476.0	516.0	567.6	605.9	613.9	613.9	597.9	553.4	501.8	456.4
62°	413.7	450.2	484.0	527.6	564.9	574.7	570.3	557.8	518.7	470.6	431.5
63°	395.0	428.8	459.1	494.7	524.9	533.8	529.4	520.5	486.7	445.7	411.0
64°	378.1	408.4	435.9	467.1	493.8	501.8	493.8	487.5	459.1	419.9	388.8
65°	370.1	398.6	422.6	449.3	469.8	474.2	468.9	459.1	435.9	403.9	373.7
66°	361.2	387.0	409.3	431.5	447.5	452.0	447.5	437.7	415.5	387.0	359.4
67°	351.4	375.4	396.8	417.3	430.6	433.3	430.6	421.7	399.5	372.8	347.0
68°	343.4	366.5	385.2	403.9	414.6	418.1	417.3	407.5	383.5	359.4	335.4
69°	336.3	357.7	377.2	392.3	403.0	403.9	403.9	395.0	372.8	349.6	326.5
70°	328.3	348.8	365.7	381.7	390.6	392.3	392.3	383.5	363.9	339.9	314.9
72.5°	312.3	330.1	347.9	360.3	369.2	371.9	374.6	365.7	343.4	321.2	298.0



REPORT NUMBER: P212604

CATALOG NUMBER: MPW-AF-D-U-ASYM-7050-600

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
75°	290.0	306.0	323.0	334.5	344.3	347.0	350.5	344.3	322.1	299.8	279.4
77.5°	267.8	283.8	300.7	314.9	325.6	329.2	331.9	325.6	303.4	282.9	260.7
80°	245.6	259.8	278.5	291.8	303.4	306.0	309.6	299.8	282.9	259.8	239.3
82.5°	225.1	238.4	255.3	268.7	280.2	284.7	282.9	275.8	257.1	236.7	218.9
85°	203.7	216.2	231.3	242.9	254.4	257.1	256.2	248.2	232.2	214.4	198.4
87.5°	185.9	197.5	210.0	218.0	228.6	230.4	229.5	221.5	208.2	193.9	179.7
90°	170.8	180.6	192.2	198.4	205.5	210.9	209.1	201.1	188.6	177.0	162.8
92.5°	160.1	167.3	176.2	182.4	186.8	190.4	190.4	183.3	172.6	161.0	150.4
95°	145.0	151.2	159.3	163.7	167.3	171.7	171.7	166.4	157.5	148.6	139.7
97.5°	128.1	132.6	137.0	140.6	143.2	146.8	145.0	142.3	137.0	129.9	123.7
100°	113.9	115.7	118.3	121.0	121.9	124.6	125.4	124.6	121.0	117.4	113.9
102.5°	101.4	103.2	103.2	104.1	104.1	103.2	104.1	103.2	102.3	103.2	99.6
105°	86.3	88.1	86.3	84.5	84.5	85.4	86.3	87.2	87.2	88.1	87.2
107.5°	76.5	76.5	75.6	73.8	73.8	73.8	73.8	73.8	75.6	76.5	75.6
110°	65.8	64.1	64.1	63.2	62.3	62.3	63.2	62.3	63.2	64.9	65.8
112.5°	54.3	53.4	52.5	51.6	49.8	50.7	52.5	52.5	54.3	55.2	55.2
115°	41.8	42.7	43.6	40.9	40.0	40.0	40.0	41.8	42.7	42.7	44.5
117.5°	35.6	36.5	35.6	35.6	34.7	34.7	35.6	35.6	37.4	39.1	39.1
120°	27.6	26.7	26.7	28.5	26.7	27.6	28.5	27.6	27.6	30.2	32.0
122.5°	22.2	23.1	23.1	22.2	23.1	24.0	23.1	24.0	23.1	24.0	24.9
125°	20.5	20.5	20.5	20.5	20.5	21.4	22.2	22.2	21.4	21.4	22.2
127.5°	15.1	16.0	16.0	16.9	16.9	16.9	17.8	17.8	16.9	16.9	16.9
130°	11.6	11.6	12.5	15.1	13.3	13.3	14.2	13.3	14.2	14.2	12.5
132.5°	4.4	5.3	5.3	6.2	7.1	8.0	8.0	8.0	7.1	8.0	7.1
135°	2.7	1.8	2.7	3.6	2.7	4.4	4.4	3.6	4.4	4.4	4.4
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: P212604

CATALOG NUMBER: MPW-AF-D-U-ASYM-7050-600

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	317.6	317.6	317.6	317.6	317.6	317.6	317.6	317.6	317.6	317.6	317.6
2.5°	319.4	319.4	318.5	319.4	320.3	319.4	319.4	319.4	318.5	319.4	319.4
5°	322.1	322.1	323.0	322.1	323.0	323.0	323.0	322.1	321.2	321.2	319.4
7.5°	322.1	321.2	322.1	322.1	321.2	318.5	315.8	313.2	311.4	310.5	309.6
10°	338.1	335.4	331.9	327.4	323.0	318.5	314.9	310.5	306.0	304.3	300.7
12.5°	355.0	351.4	346.1	343.4	338.1	333.6	327.4	322.1	316.7	309.6	306.0
15°	368.3	365.7	361.2	355.9	347.9	340.7	333.6	327.4	322.1	317.6	313.2
17.5°	377.2	372.8	367.4	359.4	354.1	347.9	341.6	336.3	331.9	326.5	322.1
20°	381.7	376.3	371.0	366.5	361.2	355.0	350.5	344.3	339.0	331.9	327.4
22.5°	390.6	385.2	381.7	373.7	367.4	363.0	358.5	353.2	347.0	339.0	331.0
25°	403.0	396.8	389.7	383.5	379.0	373.7	366.5	356.8	349.6	342.5	337.2
27.5°	424.4	415.5	405.7	399.5	393.2	384.3	376.3	369.2	362.1	355.0	347.0
30°	442.2	427.9	418.1	410.1	398.6	391.5	383.5	375.4	367.4	361.2	355.9
32.5°	475.1	456.4	440.4	428.8	416.4	407.5	399.5	393.2	385.2	378.1	371.9
35°	505.3	484.0	464.4	446.6	435.1	426.2	416.4	407.5	399.5	392.3	387.0
37.5°	537.4	508.9	484.9	468.0	456.4	445.7	435.9	427.0	419.9	413.7	408.4
40°	577.4	540.0	512.5	493.8	479.5	468.0	457.3	447.5	441.3	435.1	430.6
42.5°	631.7	576.5	544.5	524.0	504.4	492.0	480.4	473.3	467.1	460.0	456.4
45°	668.1	610.3	564.9	539.1	523.1	512.5	505.3	497.3	495.6	488.4	482.2
46°	677.0	612.1	570.3	539.1	527.6	517.8	509.8	505.3	501.8	496.4	490.2
47°	676.2	610.3	567.6	539.1	528.5	521.4	515.1	514.2	507.1	501.8	499.1
48°	675.3	619.2	573.0	545.4	536.5	527.6	521.4	517.8	514.2	508.9	503.6
49°	673.5	615.7	573.8	550.7	542.7	532.9	525.8	521.4	516.9	512.5	508.0
50°	674.4	614.8	572.1	555.2	548.0	539.1	530.2	524.0	520.5	516.0	510.7
51°	669.9	608.5	567.6	554.3	548.9	537.4	529.4	524.9	522.2	517.8	513.3
52°	660.1	602.3	563.2	548.9	545.4	533.8	524.9	521.4	518.7	514.2	509.8
53°	634.3	577.4	540.9	531.1	526.7	518.7	516.0	514.2	512.5	509.8	504.4
54°	607.7	556.9	529.4	520.5	516.9	510.7	507.1	509.8	507.1	507.1	501.8
55°	585.4	538.3	516.0	508.0	504.4	499.1	495.6	496.4	496.4	495.6	490.2
56°	564.9	525.8	503.6	494.7	491.1	486.7	484.9	484.9	484.9	483.1	478.6
57°	538.3	505.3	491.1	484.9	481.3	476.9	476.9	476.0	474.2	471.5	469.8
58°	509.8	476.0	462.6	455.5	454.6	451.1	452.0	452.8	452.8	450.2	449.3
59°	481.3	452.0	438.6	434.2	430.6	430.6	431.5	432.4	433.3	433.3	430.6
60°	449.3	422.6	411.9	409.3	408.4	408.4	408.4	411.0	412.8	413.7	413.7
61°	425.3	401.2	390.6	387.9	387.9	387.9	388.8	391.5	392.3	393.2	392.3
62°	403.0	380.8	371.0	370.1	370.1	371.0	371.0	373.7	373.7	374.6	373.7
63°	381.7	362.1	355.0	352.3	354.1	354.1	353.2	355.9	358.5	357.7	355.9
64°	360.3	344.3	337.2	336.3	335.4	336.3	335.4	338.1	339.0	339.0	340.7
65°	349.6	334.5	326.5	324.7	326.5	325.6	328.3	329.2	330.1	331.0	330.1
66°	338.1	323.8	317.6	314.1	314.9	314.9	317.6	318.5	320.3	319.4	322.1
67°	328.3	313.2	306.9	305.2	305.2	305.2	306.0	308.7	309.6	311.4	311.4
68°	317.6	304.3	299.8	298.0	298.0	297.2	298.0	300.7	301.6	303.4	304.3
69°	308.7	296.3	291.8	289.1	290.9	289.1	290.0	294.5	293.6	295.4	300.7
70°	300.7	288.3	284.7	284.7	282.9	283.8	283.8	285.6	286.5	290.0	289.1
72.5°	285.6	274.9	269.6	270.5	270.5	270.5	271.4	273.1	274.0	276.7	278.5



REPORT NUMBER: P212604

CATALOG NUMBER: MPW-AF-D-U-ASYM-7050-600

REPORT N

CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°	
75°	264.2	255.3	252.7	252.7	252.7	254.4	254.4	255.3	259.8	261.6	261.6	0°
77.5°	249.1	240.2	237.5	237.5	239.3	240.2	242.0	243.8	245.6	249.1	250.0	2.5°
80°	228.6	221.5	220.6	221.5	223.3	225.1	226.9	231.3	233.1	234.0	239.3	5°
82.5°	210.9	203.7	203.7	205.5	208.2	210.0	213.5	215.3	217.1	219.8	221.5	7.5°
85°	190.4	185.1	186.8	188.6	193.1	193.9	195.7	199.3	202.0	202.8	205.5	10°
87.5°	172.6	169.9	170.8	173.5	176.2	180.6	182.4	184.2	187.7	189.5	189.5	12.5°
90°	158.4	155.7	158.4	161.9	164.6	166.4	169.0	170.8	173.5	174.4	175.3	15°
92.5°	146.8	145.0	147.7	151.2	153.9	154.8	156.6	161.0	161.9	163.7	163.7	17.5°
95°	136.1	135.2	137.9	140.6	143.2	145.9	147.7	150.4	153.0	153.9	153.9	20°
97.5°	121.0	120.1	122.8	128.1	129.0	129.9	131.7	133.5	137.0	137.9	137.0	22.5°
100°	113.0	112.1	113.0	116.5	117.4	121.0	121.9	124.6	125.4	127.2	126.3	25°
102.5°	97.9	98.8	100.5	100.5	104.1	104.1	106.8	108.5	109.4	112.1	115.7	27.5°
105°	87.2	87.2	88.1	88.1	89.9	90.7	90.7	93.4	95.2	95.2	96.1	30°
107.5°	76.5	76.5	77.4	78.3	79.2	79.2	80.1	81.9	81.9	83.6	83.6	32.5°
110°	65.8	67.6	66.7	66.7	66.7	68.5	69.4	69.4	70.3	71.2	71.2	35°
112.5°	56.0	56.0	56.0	56.9	57.8	57.8	58.7	58.7	59.6	60.5	60.5	37.5°
115°	45.4	45.4	46.3	45.4	44.5	45.4	45.4	46.3	47.2	46.3	51.6	40°
117.5°	40.0	39.1	38.3	39.1	38.3	38.3	38.3	39.1	40.0	40.0	41.8	42.5°
120°	29.4	29.4	29.4	29.4	31.1	29.4	29.4	28.5	30.2	29.4	30.2	45°
122.5°	24.9	24.0	24.0	24.0	24.0	24.0	24.0	24.9	24.0	24.9	24.0	46°
125°	21.4	21.4	23.1	21.4	20.5	21.4	21.4	21.4	21.4	22.2	25.8	47°
127.5°	16.9	17.8	16.9	16.9	16.9	17.8	16.9	16.9	17.8	18.7	17.8	48°
130°	14.2	12.5	13.3	13.3	13.3	13.3	13.3	13.3	14.2	16.0	15.1	49°
132.5°	7.1	7.1	7.1	8.0	8.9	8.9	8.0	8.9	8.9	9.8	8.9	50°
135°	5.3	6.2	4.4	4.4	6.2	5.3	7.1	6.2	6.2	6.2	5.3	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°	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: P212604

NUMBER: MPW-AF-D-U-ASYM-7050-600

REPORT NUMBER: P

CATALOG NUMBER:

DISTRIBUTION (continued):

165°	170°	175°	180°
317.6	317.6	317.6	317.6
319.4	317.6	318.5	318.5
319.4	319.4	319.4	317.6
307.8	308.7	307.8	307.8
298.9	297.2	296.3	295.4
304.3	303.4	302.5	302.5
310.5	308.7	307.8	307.8
317.6	315.8	313.2	316.7
323.8	321.2	318.5	318.5
325.6	323.0	320.3	319.4
330.1	325.6	323.0	323.0
341.6	337.2	335.4	334.5
349.6	346.1	341.6	340.7
366.5	363.0	361.2	359.4
383.5	379.9	378.1	376.3
405.7	400.4	397.7	396.8
427.0	422.6	419.9	422.6
452.0	447.5	445.7	443.9
478.6	473.3	468.0	468.0
485.8	481.3	478.6	477.8
492.9	488.4	483.1	481.3
500.9	494.7	490.2	490.2
502.7	498.2	493.8	492.0
506.2	502.7	497.3	496.4
508.0	502.7	497.3	496.4
505.3	500.9	496.4	495.6
501.8	496.4	491.1	494.7
497.3	492.9	488.4	487.5
487.5	483.1	478.6	478.6
476.0	472.4	468.0	466.2
467.1	460.0	453.7	454.6
444.8	441.3	436.8	435.9
427.0	426.2	423.5	422.6
411.9	409.3	407.5	406.6
389.7	389.7	386.1	385.2
372.8	371.0	369.2	369.2
357.7	355.9	355.0	355.9
340.7	341.6	339.0	340.7
331.9	332.7	331.9	330.1
322.1	323.0	321.2	322.1
314.1	314.1	313.2	312.3
306.9	306.9	305.2	305.2
298.0	299.8	298.9	298.0
292.7	292.7	293.6	290.9
279.4	281.1	281.1	281.1

CANDELA DISTRIBUTION:

	165°
75°	263.3
77.5°	251.8
80°	237.5
82.5°	222.4
85°	206.4
87.5°	189.5
90°	177.0
92.5°	163.7
95°	155.7
97.5°	138.8
100°	128.1
102.5°	112.1
105°	96.1
107.5°	83.6
110°	71.2
112.5°	61.4
115°	48.0
117.5°	40.9
120°	31.1
122.5°	25.8
125°	23.1
127.5°	17.8
130°	14.2
132.5°	8.9
135°	7.1
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-7050-600

TION (continued):

[illegible]

(END OF REPORT)