

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: P212602

Luminaire Tested: **MPW-AF-D-U-ASYM-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P212602
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-7030-600
Description: WOODBRIDGE LED POST-TOP LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND ASYMMETRIC OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2693.2 lumens
Efficiency: N/A
Efficacy: 79.2 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



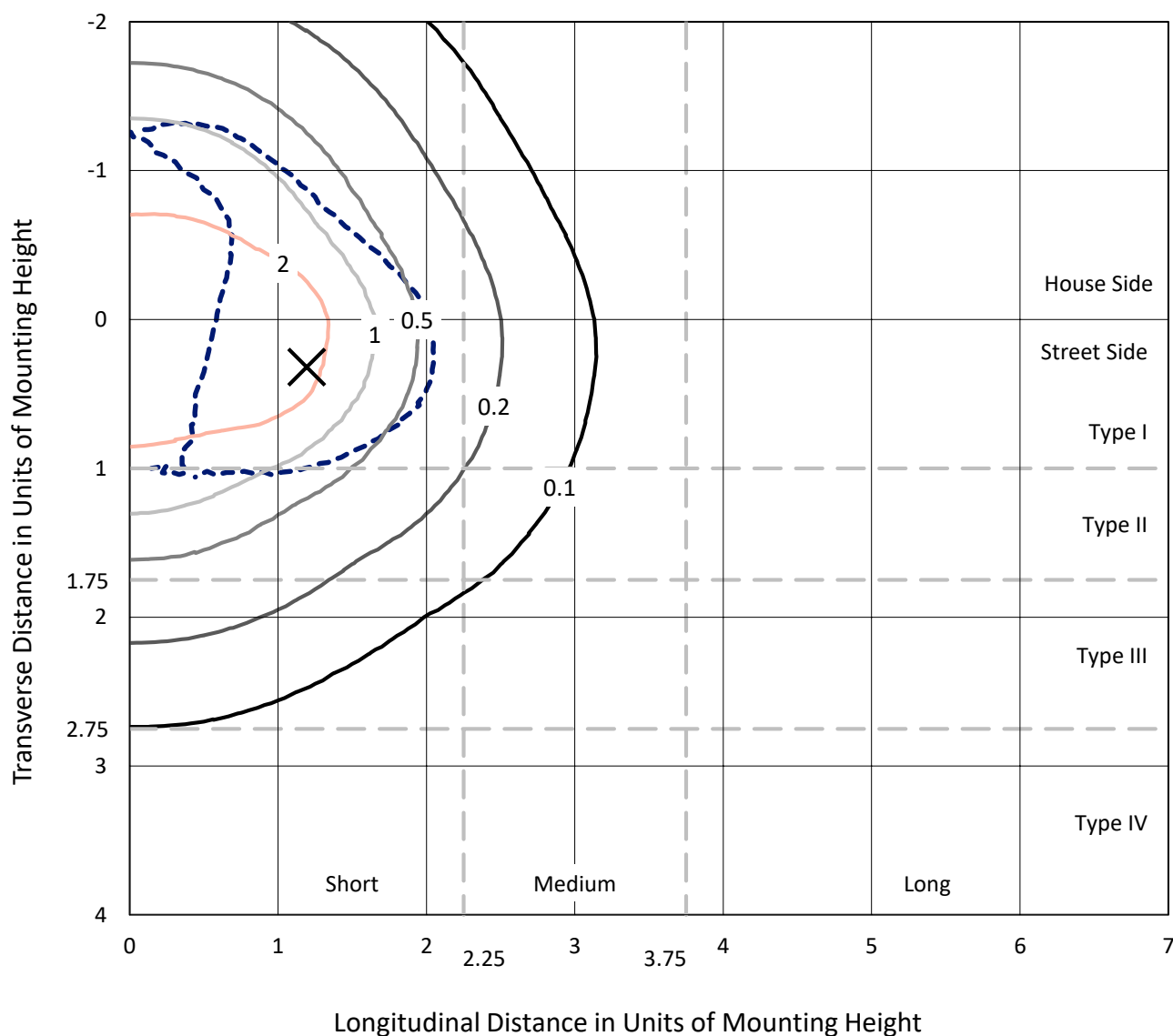
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

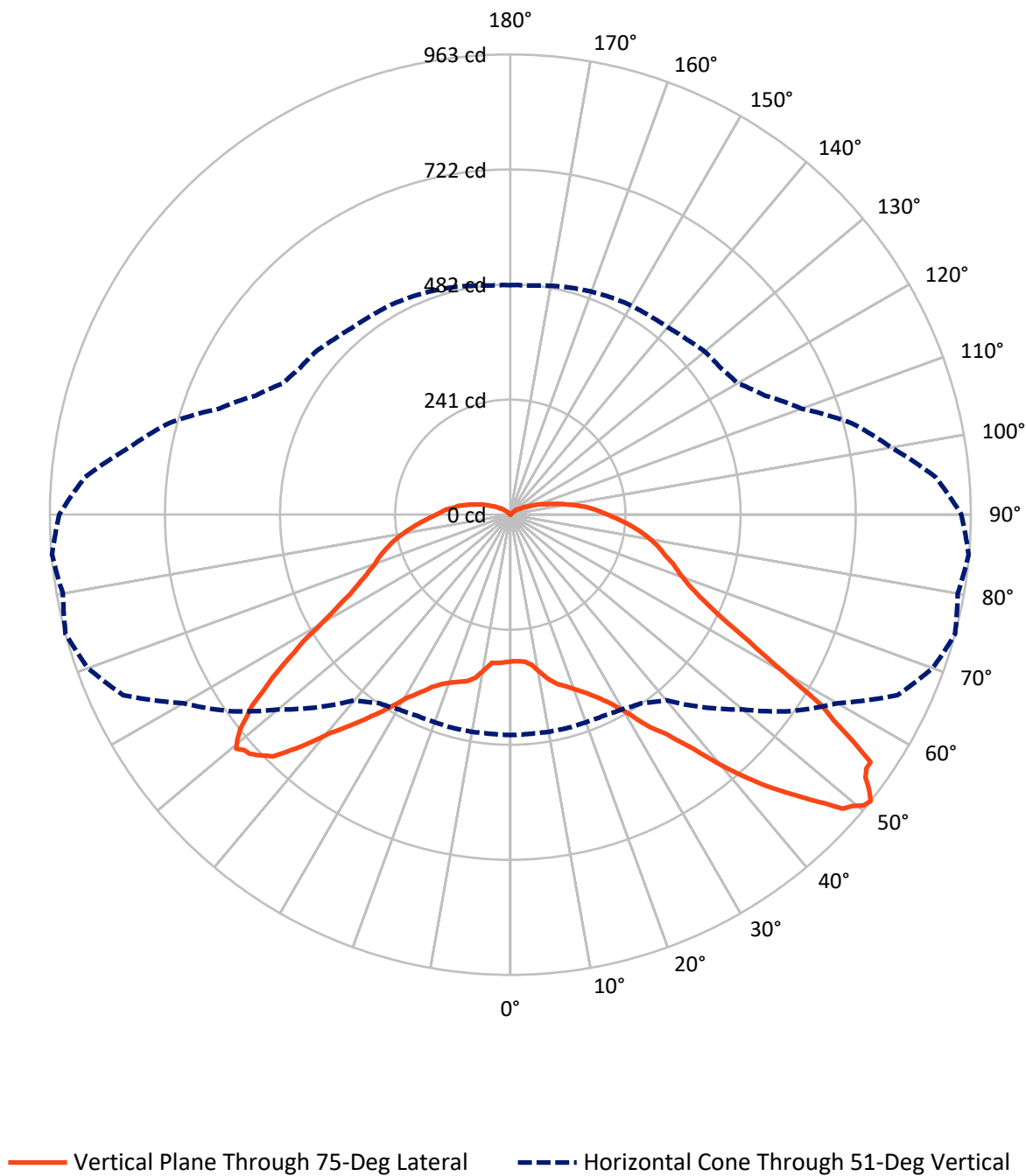


Based on 10 foot mounting height. Maximum calculated value = 3.3 fc
Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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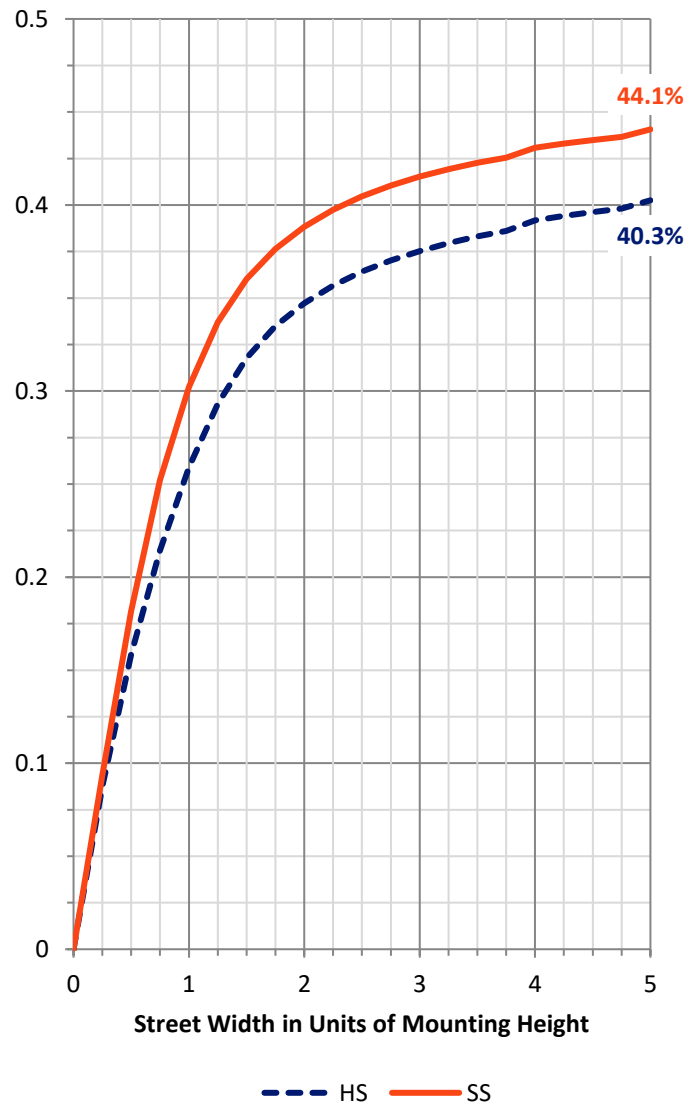
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1145.6	159.7	1305.3
	% Fixture	42.5	5.9	48.5
Street Side	Lumens	1239.8	148.2	1388.0
	% Fixture	46.0	5.5	51.5
Total	Lumens	2385.4	307.8	2693.2
	% Fixture	88.6	11.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.5	1.1
10°-20°	97.3	3.6
20°-30°	178.1	6.6
30°-40°	294.0	10.9
40°-50°	457.5	17.0
50°-60°	494.1	18.3
60°-70°	344.1	12.8
70°-80°	277.8	10.3
80°-90°	213.0	7.9
90°-100°	151.9	5.6
100°-110°	91.6	3.4
110°-120°	43.6	1.6
120°-130°	17.3	0.6
130°-140°	3.4	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°	2385.4	88.6
0°-180°	2693.2	100.0

Coefficient of Utilization



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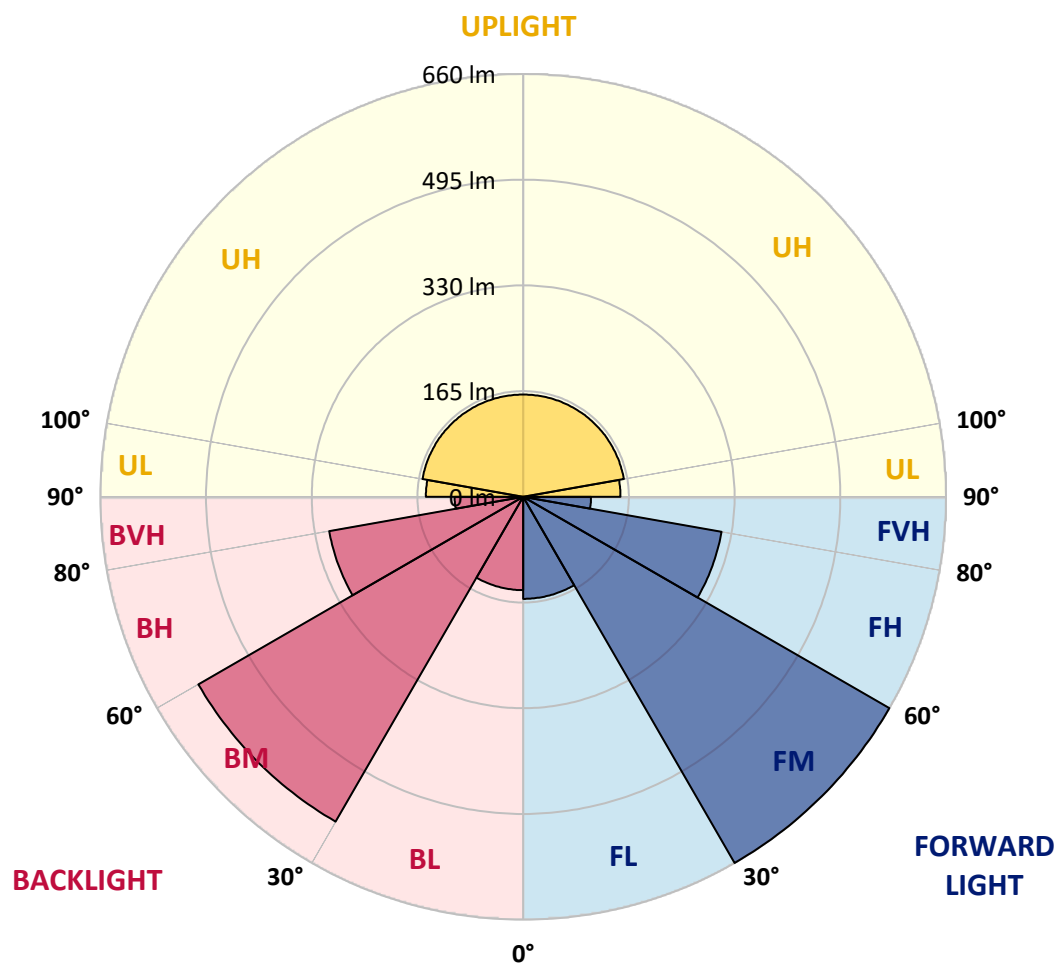
CATALOG NUMBER: MPW-AF-D-U-ASYM-7030-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	159.3	5.9			
FM	(30°-60°)	660.1	24.5			
FH	(60°-80°)	314.4	11.7			G0/660
FVH	(80°-90°)	106.0	3.9			G2/225
BL	(0°-30°)	145.7	5.4	B1/500		
BM	(30°-60°)	585.5	21.7	B1/1000		
BH	(60°-80°)	307.4	11.4	B1/500		G1/500
BVH	(80°-90°)	107.0	4.0			G2/225
UL	(90°-100°)	151.9	5.6		U3/500	
UH	(100°-180°)	159.7	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°	307.2	307.2	307.2	307.2	307.2	307.2	307.2	307.2	307.2	307.2	307.2
2.5°	305.5	305.5	305.5	305.5	306.4	305.5	306.4	305.5	306.4	306.4	307.2
5°	295.2	295.2	297.0	297.0	297.8	298.6	300.4	300.4	302.1	303.0	303.8
7.5°	300.4	301.2	301.2	300.4	301.2	303.0	303.8	305.5	308.1	309.9	312.4
10°	310.7	309.9	310.7	310.7	311.6	313.2	315.9	319.4	321.0	324.5	327.9
12.5°	322.8	322.8	324.5	324.5	326.2	328.8	333.1	334.8	337.4	341.7	345.2
15°	337.4	337.4	338.3	339.1	340.8	344.3	347.7	350.3	352.0	354.5	357.2
17.5°	353.8	355.4	356.3	358.0	358.9	361.4	363.2	364.1	364.9	365.8	368.4
20°	367.5	367.5	369.2	370.9	372.7	376.9	377.8	377.8	376.9	378.7	380.4
22.5°	367.5	366.7	370.9	376.9	381.3	385.6	388.2	389.8	391.6	390.7	393.3
25°	359.8	360.7	364.9	371.8	381.3	389.1	396.0	400.2	404.5	405.4	408.8
27.5°	370.9	370.9	375.3	381.3	389.1	397.6	406.2	414.9	420.9	426.9	431.2
30°	380.4	382.2	387.3	395.1	401.1	409.7	419.1	429.5	438.1	445.8	451.9
32.5°	397.6	398.5	402.0	407.1	415.7	426.0	437.3	449.3	462.2	471.7	481.1
35°	416.6	414.0	414.0	418.2	425.1	434.6	447.5	463.0	487.2	500.1	513.0
37.5°	431.2	431.2	432.0	434.6	438.1	445.0	457.0	475.9	504.3	533.6	546.5
40°	453.5	453.5	452.7	455.3	458.8	464.8	475.1	493.2	517.2	565.4	599.1
42.5°	469.9	469.0	469.9	473.4	474.2	478.6	488.8	508.7	534.5	579.2	637.7
45°	479.4	479.4	478.6	480.3	482.8	488.0	494.8	514.7	548.3	593.8	654.1
46°	480.3	480.3	479.4	481.1	483.7	488.0	494.1	513.0	550.0	598.2	655.0
47°	479.4	477.7	477.7	478.6	480.3	483.7	489.7	506.1	545.6	591.3	655.9
48°	476.8	475.9	476.8	478.6	478.6	482.8	488.0	503.5	540.5	590.4	667.0
49°	475.1	475.1	475.9	476.8	478.6	481.1	488.0	502.6	532.7	589.6	660.1
50°	471.7	471.7	472.5	474.2	473.4	474.2	481.1	492.3	519.9	582.7	651.5
51°	461.3	460.4	461.3	462.2	462.2	463.9	469.9	481.1	507.0	569.8	634.4
52°	448.4	448.4	449.3	451.0	451.9	453.5	458.8	469.0	493.2	556.0	618.8
53°	429.5	431.2	435.5	435.5	437.3	439.8	445.8	456.2	478.6	532.7	599.1
54°	420.0	421.7	426.0	428.6	430.4	435.5	441.5	450.1	469.0	514.7	592.2
55°	398.5	400.2	403.6	408.0	409.7	414.9	420.9	431.2	451.0	492.3	561.2
56°	382.2	383.0	387.3	389.8	390.7	393.3	398.5	405.4	422.6	456.2	521.6
57°	367.5	365.8	368.4	371.8	372.7	375.3	380.4	385.6	400.2	432.0	489.7
58°	346.0	342.5	346.0	348.5	350.3	352.9	358.0	362.3	375.3	404.5	455.3
59°	328.8	330.5	333.9	336.5	338.3	340.8	343.4	348.5	359.8	383.0	431.2
60°	316.7	317.6	319.4	321.9	323.6	326.2	328.8	333.1	343.4	364.1	407.1
61°	306.4	306.4	309.0	311.6	311.6	314.1	315.9	319.4	328.8	346.0	384.7
62°	297.8	296.1	298.6	302.1	302.1	304.7	305.5	309.0	316.7	331.4	366.7
63°	287.5	288.3	289.2	292.6	292.6	295.2	295.2	299.5	304.7	318.5	350.3
64°	278.0	280.6	279.7	282.3	283.2	284.1	285.7	288.3	293.5	307.2	335.6
65°	274.6	274.6	277.2	278.0	278.8	280.6	282.3	284.8	290.1	301.2	331.4
66°	269.4	269.4	271.1	272.8	272.8	274.6	277.2	279.7	284.1	294.3	321.9
67°	264.2	264.2	265.1	266.8	266.8	267.7	270.2	272.8	278.0	288.3	314.1
68°	259.1	259.1	259.9	260.8	260.8	261.7	264.2	267.7	272.8	282.3	307.2
69°	255.7	252.2	254.8	254.8	254.8	256.4	257.3	260.8	267.7	278.0	300.4
70°	247.0	247.9	248.8	249.5	249.5	248.8	249.5	253.9	259.9	270.2	292.6
72.5°	235.8	236.7	237.5	237.5	236.7	236.7	237.5	240.2	245.3	255.7	276.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
75°	219.5	221.1	221.1	221.1	219.5	219.5	220.4	222.0	225.5	235.0	253.0
77.5°	209.1	208.2	209.1	208.2	207.4	207.4	206.6	207.4	210.0	218.6	235.0
80°	197.1	194.5	195.4	193.6	193.6	192.8	191.1	191.1	193.6	204.0	216.9
82.5°	181.6	180.7	181.6	180.7	179.0	177.3	175.6	176.5	179.0	183.3	197.1
85°	167.8	169.6	168.7	166.9	164.4	162.7	160.9	161.8	162.7	166.1	179.0
87.5°	157.6	156.7	157.6	154.9	153.2	151.4	149.8	148.9	149.8	153.2	160.1
90°	148.0	148.0	147.2	146.3	143.8	142.9	140.3	139.4	139.4	142.9	151.4
92.5°	141.2	140.3	138.5	138.5	135.2	132.5	131.7	130.8	129.9	133.4	141.2
95°	129.9	129.1	129.1	128.3	125.6	123.9	122.3	121.4	122.3	123.9	130.8
97.5°	113.6	116.1	113.6	113.6	111.0	110.1	109.3	107.6	107.6	110.1	115.4
100°	106.7	105.9	105.0	104.1	103.2	102.4	101.6	100.7	100.7	103.2	106.7
102.5°	96.4	93.9	93.9	90.4	90.4	90.4	89.5	89.5	90.4	93.9	95.5
105°	80.9	80.1	80.1	79.2	79.2	78.3	78.3	77.5	79.2	80.1	83.5
107.5°	68.8	68.8	68.8	68.0	68.0	68.0	68.0	68.0	68.0	69.7	72.3
110°	58.6	57.7	58.6	57.7	58.6	57.7	57.7	57.7	59.4	60.2	64.6
112.5°	46.4	47.3	48.2	47.3	47.3	48.2	48.2	48.2	49.1	49.9	51.7
115°	38.7	36.2	36.2	37.0	36.2	37.0	37.0	38.7	38.7	40.4	40.4
117.5°	30.2	30.2	30.2	31.0	31.0	31.0	31.8	32.7	32.7	33.5	34.4
120°	22.4	23.3	21.5	24.1	22.4	23.3	23.3	24.1	26.7	24.9	25.8
122.5°	18.0	18.0	18.0	18.9	18.9	18.9	18.9	19.8	19.8	19.8	20.6
125°	14.6	15.5	16.4	16.4	15.5	16.4	16.4	16.4	17.3	18.9	18.9
127.5°	12.0	11.1	12.0	12.0	12.9	12.9	12.0	12.0	12.9	12.9	13.8
130°	8.6	8.6	8.6	8.6	8.6	8.6	8.6	9.5	9.5	9.5	9.5
132.5°	2.6	3.5	3.5	3.5	3.5	4.3	3.5	4.3	4.3	3.5	4.3
135°	0.9	0.9	0.9	0.9	0.9	1.7	1.7	2.6	1.7	0.9	1.7
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	1.7	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°	307.2	307.2	307.2	307.2	307.2	307.2	307.2	307.2	307.2	307.2	307.2
2.5°	307.2	307.2	308.1	307.2	307.2	307.2	308.1	308.1	308.1	309.0	309.0
5°	303.8	306.4	306.4	308.1	309.0	309.9	310.7	309.9	310.7	310.7	311.6
7.5°	313.2	313.2	315.9	315.9	316.7	316.7	317.6	315.0	315.0	314.1	312.4
10°	331.4	333.1	333.9	334.8	333.1	333.1	331.4	331.4	331.4	329.6	328.8
12.5°	346.9	350.3	352.0	353.8	352.9	351.2	350.3	350.3	350.3	350.3	348.5
15°	360.7	363.2	365.8	367.5	366.7	366.7	367.5	364.9	364.9	362.3	359.8
17.5°	371.8	375.3	376.9	379.6	377.8	376.9	376.1	373.6	371.8	369.2	365.8
20°	383.8	386.4	389.1	391.6	390.7	389.1	386.4	383.8	380.4	377.8	372.7
22.5°	396.7	400.2	403.6	405.4	405.4	403.6	400.2	397.6	392.5	388.2	382.2
25°	412.2	416.6	420.9	422.6	423.5	421.7	416.6	413.1	408.8	402.8	396.7
27.5°	435.5	441.5	445.8	447.5	447.5	446.7	442.4	438.9	432.0	426.9	418.2
30°	457.9	468.2	475.9	483.7	480.3	476.8	474.2	469.0	460.4	451.9	440.6
32.5°	494.1	507.0	520.7	526.7	526.7	524.1	518.1	513.0	506.1	493.2	475.9
35°	530.1	546.5	562.9	565.4	564.7	563.8	558.5	558.5	551.6	531.0	511.2
37.5°	565.4	597.3	616.2	622.2	621.4	621.4	613.7	611.1	596.4	574.0	550.9
40°	608.5	653.3	690.3	700.6	698.1	693.7	683.4	678.2	659.3	624.9	592.2
42.5°	661.0	708.3	762.5	780.7	771.2	763.4	763.4	748.8	731.6	695.4	651.5
45°	706.6	746.2	826.2	852.9	838.3	822.8	828.8	822.8	802.2	756.5	709.2
46°	717.8	766.0	859.8	885.7	867.5	851.2	858.1	849.5	827.1	778.9	719.5
47°	734.1	784.0	884.8	914.9	895.1	870.1	887.4	876.2	846.9	796.2	730.7
48°	741.9	798.7	908.8	936.5	928.7	894.3	914.1	895.1	873.6	808.2	740.2
49°	737.6	796.9	910.6	947.6	939.0	915.8	929.6	909.7	871.0	820.2	743.6
50°	734.1	796.2	907.2	951.9	957.1	941.6	941.6	927.0	879.6	809.9	754.0
51°	717.0	789.3	893.4	939.8	963.1	950.2	962.2	943.3	893.4	809.1	739.4
52°	691.9	778.0	878.8	929.6	945.9	938.1	960.5	952.7	899.4	809.1	722.1
53°	668.8	766.9	852.1	911.4	924.3	910.6	928.7	933.8	872.8	801.3	695.4
54°	645.5	734.1	841.7	925.2	914.9	896.8	921.8	920.9	857.2	759.1	672.2
55°	613.7	691.2	799.6	891.7	914.1	897.7	917.4	900.3	818.5	720.3	635.1
56°	576.7	655.0	730.7	820.2	859.8	876.2	893.4	870.1	780.7	689.4	604.2
57°	537.0	600.7	665.3	741.9	803.1	815.9	828.0	815.1	728.1	645.5	569.8
58°	499.2	555.1	611.1	681.7	764.3	784.9	784.9	775.5	681.7	606.8	535.4
59°	473.4	522.5	569.8	636.0	691.9	703.2	710.1	704.9	636.9	568.9	507.8
60°	445.8	488.8	536.2	593.1	633.5	639.5	641.2	629.1	577.5	525.9	470.8
61°	420.0	460.4	499.2	549.1	586.1	593.8	593.8	578.4	535.4	485.4	441.5
62°	400.2	435.5	468.2	510.4	546.5	556.0	551.6	539.6	501.8	455.3	417.5
63°	382.2	414.9	444.1	478.6	507.8	516.4	512.1	503.5	470.8	431.2	397.6
64°	365.8	395.1	421.7	451.9	477.7	485.4	477.7	471.7	444.1	406.2	376.1
65°	358.0	385.6	408.8	434.6	454.4	458.8	453.5	444.1	421.7	390.7	361.4
66°	349.4	374.4	396.0	417.5	432.9	437.3	432.9	423.5	402.0	374.4	347.7
67°	340.0	363.2	383.8	403.6	416.6	419.1	416.6	408.0	386.4	360.7	335.6
68°	332.3	354.5	372.7	390.7	401.1	404.5	403.6	394.2	370.9	347.7	324.5
69°	325.4	346.0	364.9	379.6	389.8	390.7	390.7	382.2	360.7	338.3	315.9
70°	317.6	337.4	353.8	369.2	377.8	379.6	379.6	370.9	352.0	328.8	304.7
72.5°	302.1	319.4	336.5	348.5	357.2	359.8	362.3	353.8	332.3	310.7	288.3



REPORT NUMBER: P212602

CATALOG NUMBER: MPW-AF-D-U-ASYM-7030-600

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
75°	280.6	296.1	312.4	323.6	333.1	335.6	339.1	333.1	311.6	290.1	270.2
77.5°	259.1	274.6	291.0	304.7	315.0	318.5	321.0	315.0	293.5	273.7	252.2
80°	237.5	251.3	269.4	282.3	293.5	296.1	299.5	290.1	273.7	251.3	231.5
82.5°	217.8	230.6	247.0	259.9	271.1	275.4	273.7	266.8	248.8	228.9	211.7
85°	197.1	209.1	223.8	235.0	246.2	248.8	247.9	240.2	224.6	207.4	192.0
87.5°	179.8	191.1	203.1	210.9	221.1	222.9	222.0	214.3	201.4	187.6	173.8
90°	165.2	174.7	186.0	192.0	198.9	204.0	202.2	194.5	182.5	171.3	157.6
92.5°	154.9	161.8	170.4	176.5	180.7	184.2	184.2	177.3	166.9	155.8	145.4
95°	140.3	146.3	154.1	158.3	161.8	166.1	166.1	160.9	152.3	143.8	135.2
97.5°	123.9	128.3	132.5	136.0	138.5	142.0	140.3	137.7	132.5	125.6	119.6
100°	110.1	111.9	114.5	117.0	117.9	120.5	121.4	120.5	117.0	113.6	110.1
102.5°	98.1	99.9	99.9	100.7	100.7	99.9	100.7	99.9	99.0	99.9	96.4
105°	83.5	85.2	83.5	81.7	81.7	82.6	83.5	84.3	84.3	85.2	84.3
107.5°	74.0	74.0	73.2	71.5	71.5	71.5	71.5	71.5	73.2	74.0	73.2
110°	63.7	62.0	62.0	61.1	60.2	60.2	61.1	60.2	61.1	62.8	63.7
112.5°	52.6	51.7	50.8	49.9	48.2	49.1	50.8	50.8	52.6	53.3	53.3
115°	40.4	41.3	42.2	39.6	38.7	38.7	38.7	40.4	41.3	41.3	43.0
117.5°	34.4	35.3	34.4	34.4	33.5	33.5	34.4	34.4	36.2	37.9	37.9
120°	26.7	25.8	25.8	27.5	25.8	26.7	27.5	26.7	26.7	29.3	31.0
122.5°	21.5	22.4	22.4	21.5	22.4	23.3	22.4	23.3	22.4	23.3	24.1
125°	19.8	19.8	19.8	19.8	19.8	20.6	21.5	21.5	20.6	20.6	21.5
127.5°	14.6	15.5	15.5	16.4	16.4	16.4	17.3	17.3	16.4	16.4	16.4
130°	11.1	11.1	12.0	14.6	12.9	12.9	13.8	12.9	13.8	13.8	12.0
132.5°	4.3	5.1	5.1	6.0	6.9	7.8	7.8	7.8	6.9	7.8	6.9
135°	2.6	1.7	2.6	3.5	2.6	4.3	4.3	3.5	4.3	4.3	4.3
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°	1.7	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.9	1.7	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: P212602

CATALOG NUMBER: MPW-AF-D-U-ASYM-7030-600

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	307.2	307.2	307.2	307.2	307.2	307.2	307.2	307.2	307.2	307.2	307.2
2.5°	309.0	309.0	308.1	309.0	309.9	309.0	309.0	309.0	308.1	309.0	309.0
5°	311.6	311.6	312.4	311.6	312.4	312.4	312.4	311.6	310.7	310.7	309.0
7.5°	311.6	310.7	311.6	311.6	310.7	308.1	305.5	303.0	301.2	300.4	299.5
10°	327.0	324.5	321.0	316.7	312.4	308.1	304.7	300.4	296.1	294.3	291.0
12.5°	343.4	340.0	334.8	332.3	327.0	322.8	316.7	311.6	306.4	299.5	296.1
15°	356.3	353.8	349.4	344.3	336.5	329.6	322.8	316.7	311.6	307.2	303.0
17.5°	364.9	360.7	355.4	347.7	342.5	336.5	330.5	325.4	321.0	315.9	311.6
20°	369.2	364.1	358.9	354.5	349.4	343.4	339.1	333.1	327.9	321.0	316.7
22.5°	377.8	372.7	369.2	361.4	355.4	351.2	346.9	341.7	335.6	327.9	320.1
25°	389.8	383.8	376.9	370.9	366.7	361.4	354.5	345.2	338.3	331.4	326.2
27.5°	410.6	402.0	392.5	386.4	380.4	371.8	364.1	357.2	350.3	343.4	335.6
30°	427.8	414.0	404.5	396.7	385.6	378.7	370.9	363.2	355.4	349.4	344.3
32.5°	459.7	441.5	426.0	414.9	402.8	394.2	386.4	380.4	372.7	365.8	359.8
35°	488.8	468.2	449.3	432.0	420.9	412.2	402.8	394.2	386.4	379.6	374.4
37.5°	519.9	492.3	469.0	452.7	441.5	431.2	421.7	413.1	406.2	400.2	395.1
40°	558.5	522.5	495.7	477.7	463.9	452.7	442.4	432.9	426.9	420.9	416.6
42.5°	611.1	557.8	526.7	507.0	488.0	475.9	464.8	457.9	451.9	445.0	441.5
45°	646.4	590.4	546.5	521.6	506.1	495.7	488.8	481.1	479.4	472.5	466.5
46°	655.0	592.2	551.6	521.6	510.4	501.0	493.2	488.8	485.4	480.3	474.2
47°	654.1	590.4	549.1	521.6	511.2	504.3	498.3	497.5	490.6	485.4	482.8
48°	653.3	599.1	554.3	527.6	519.0	510.4	504.3	501.0	497.5	492.3	487.2
49°	651.5	595.6	555.1	532.7	525.0	515.6	508.7	504.3	500.1	495.7	491.4
50°	652.4	594.7	553.4	537.0	530.1	521.6	513.0	507.0	503.5	499.2	494.1
51°	648.1	588.7	549.1	536.2	531.0	519.9	512.1	507.8	505.2	501.0	496.6
52°	638.6	582.7	544.8	531.0	527.6	516.4	507.8	504.3	501.8	497.5	493.2
53°	613.7	558.5	523.2	513.8	509.5	501.8	499.2	497.5	495.7	493.2	488.0
54°	587.8	538.8	512.1	503.5	500.1	494.1	490.6	493.2	490.6	490.6	485.4
55°	566.3	520.7	499.2	491.4	488.0	482.8	479.4	480.3	480.3	479.4	474.2
56°	546.5	508.7	487.2	478.6	475.1	470.8	469.0	469.0	469.0	467.3	463.0
57°	520.7	488.8	475.1	469.0	465.7	461.3	461.3	460.4	458.8	456.2	454.4
58°	493.2	460.4	447.5	440.6	439.8	436.4	437.3	438.1	438.1	435.5	434.6
59°	465.7	437.3	424.4	420.0	416.6	416.6	417.5	418.2	419.1	419.1	416.6
60°	434.6	408.8	398.5	396.0	395.1	395.1	395.1	397.6	399.3	400.2	400.2
61°	411.4	388.2	377.8	375.3	375.3	375.3	376.1	378.7	379.6	380.4	379.6
62°	389.8	368.4	358.9	358.0	358.0	358.9	358.9	361.4	361.4	362.3	361.4
63°	369.2	350.3	343.4	340.8	342.5	342.5	341.7	344.3	346.9	346.0	344.3
64°	348.5	333.1	326.2	325.4	324.5	325.4	324.5	327.0	327.9	327.9	329.6
65°	338.3	323.6	315.9	314.1	315.9	315.0	317.6	318.5	319.4	320.1	319.4
66°	327.0	313.2	307.2	303.8	304.7	304.7	307.2	308.1	309.9	309.0	311.6
67°	317.6	303.0	297.0	295.2	295.2	295.2	296.1	298.6	299.5	301.2	301.2
68°	307.2	294.3	290.1	288.3	288.3	287.5	288.3	291.0	291.7	293.5	294.3
69°	298.6	286.6	282.3	279.7	281.5	279.7	280.6	284.8	284.1	285.7	291.0
70°	291.0	278.8	275.4	275.4	273.7	274.6	274.6	276.3	277.2	280.6	279.7
72.5°	276.3	265.9	260.8	261.7	261.7	261.7	262.6	264.2	265.1	267.7	269.4



REPORT NUMBER: P212602

CATALOG NUMBER: MPW-AF-D-U-ASYM-7030-600

REPORT N

CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°	
75°	255.7	247.0	244.4	244.4	244.4	246.2	246.2	247.0	251.3	253.0	253.0	0°
77.5°	241.0	232.4	229.8	229.8	231.5	232.4	234.1	235.8	237.5	241.0	241.9	2.5°
80°	221.1	214.3	213.5	214.3	216.0	217.8	219.5	223.8	225.5	226.4	231.5	5°
82.5°	204.0	197.1	197.1	198.9	201.4	203.1	206.6	208.2	210.0	212.6	214.3	7.5°
85°	184.2	179.0	180.7	182.5	186.7	187.6	189.3	192.8	195.4	196.2	198.9	10°
87.5°	166.9	164.4	165.2	167.8	170.4	174.7	176.5	178.2	181.6	183.3	183.3	12.5°
90°	153.2	150.7	153.2	156.7	159.2	160.9	163.6	165.2	167.8	168.7	169.6	15°
92.5°	142.0	140.3	142.9	146.3	148.9	149.8	151.4	155.8	156.7	158.3	158.3	17.5°
95°	131.7	130.8	133.4	136.0	138.5	141.2	142.9	145.4	148.0	148.9	148.9	20°
97.5°	117.0	116.1	118.8	123.9	124.8	125.6	127.4	129.1	132.5	133.4	132.5	22.5°
100°	109.3	108.5	109.3	112.8	113.6	117.0	117.9	120.5	121.4	123.0	122.3	25°
102.5°	94.7	95.5	97.2	97.2	100.7	100.7	103.2	105.0	105.9	108.5	111.9	27.5°
105°	84.3	84.3	85.2	85.2	87.0	87.7	87.7	90.4	92.1	92.1	93.0	30°
107.5°	74.0	74.0	74.8	75.7	76.6	76.6	77.5	79.2	79.2	80.9	80.9	32.5°
110°	63.7	65.4	64.6	64.6	64.6	66.3	67.1	67.1	68.0	68.8	68.8	35°
112.5°	54.2	54.2	54.2	55.1	55.9	55.9	56.8	56.8	57.7	58.6	58.6	37.5°
115°	43.9	43.9	44.8	43.9	43.0	43.9	43.9	44.8	45.7	44.8	49.9	40°
117.5°	38.7	37.9	37.0	37.9	37.0	37.0	37.0	37.9	38.7	38.7	40.4	42.5°
120°	28.4	28.4	28.4	28.4	30.2	28.4	28.4	27.5	29.3	28.4	29.3	45°
122.5°	24.1	23.3	23.3	23.3	23.3	23.3	23.3	24.1	23.3	24.1	23.3	46°
125°	20.6	20.6	22.4	20.6	19.8	20.6	20.6	20.6	20.6	21.5	24.9	47°
127.5°	16.4	17.3	16.4	16.4	16.4	17.3	16.4	16.4	17.3	18.0	17.3	48°
130°	13.8	12.0	12.9	12.9	12.9	12.9	12.9	12.9	13.8	15.5	14.6	49°
132.5°	6.9	6.9	6.9	7.8	8.6	8.6	7.8	8.6	8.6	9.5	8.6	50°
135°	5.1	6.0	4.3	4.3	6.0	5.1	6.9	6.0	6.0	6.0	5.1	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°	1.7	1.7	0.9	0.9	0.9	1.7	0.9	1.7	0.9	1.7	1.7	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: P212602

NUMBER: MPW-AF-D-U-ASYM-7030-600

REPORT NUMBER: P

CATALOG NUMBER:

DISTRIBUTION (continued):

165°	170°	175°	180°
307.2	307.2	307.2	307.2
309.0	307.2	308.1	308.1
309.0	309.0	309.0	307.2
297.8	298.6	297.8	297.8
289.2	287.5	286.6	285.7
294.3	293.5	292.6	292.6
300.4	298.6	297.8	297.8
307.2	305.5	303.0	306.4
313.2	310.7	308.1	308.1
315.0	312.4	309.9	309.0
319.4	315.0	312.4	312.4
330.5	326.2	324.5	323.6
338.3	334.8	330.5	329.6
354.5	351.2	349.4	347.7
370.9	367.5	365.8	364.1
392.5	387.3	384.7	383.8
413.1	408.8	406.2	408.8
437.3	432.9	431.2	429.5
463.0	457.9	452.7	452.7
469.9	465.7	463.0	462.2
476.8	472.5	467.3	465.7
484.6	478.6	474.2	474.2
486.3	481.9	477.7	475.9
489.7	486.3	481.1	480.3
491.4	486.3	481.1	480.3
488.8	484.6	480.3	479.4
485.4	480.3	475.1	478.6
481.1	476.8	472.5	471.7
471.7	467.3	463.0	463.0
460.4	457.0	452.7	451.0
451.9	445.0	438.9	439.8
430.4	426.9	422.6	421.7
413.1	412.2	409.7	408.8
398.5	396.0	394.2	393.3
376.9	376.9	373.6	372.7
360.7	358.9	357.2	357.2
346.0	344.3	343.4	344.3
329.6	330.5	327.9	329.6
321.0	321.9	321.0	319.4
311.6	312.4	310.7	311.6
303.8	303.8	303.0	302.1
297.0	297.0	295.2	295.2
288.3	290.1	289.2	288.3
283.2	283.2	284.1	281.5
270.2	271.9	271.9	271.9

CANDELA DISTRIBUTION:

	165°
75°	254.8
77.5°	243.5
80°	229.8
82.5°	215.1
85°	199.7
87.5°	183.3
90°	171.3
92.5°	158.3
95°	150.7
97.5°	134.3
100°	123.9
102.5°	108.5
105°	93.0
107.5°	80.9
110°	68.8
112.5°	59.4
115°	46.4
117.5°	39.6
120°	30.2
122.5°	24.9
125°	22.4
127.5°	17.3
130°	13.8
132.5°	8.6
135°	6.9
137.5°	0.0
140°	1.7
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-7030-600

TION (continued):

[illegible]

(END OF REPORT)