

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: P212601

Luminaire Tested: **MPW-AF-D-U-ASYM-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P212601
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-8030-600
Description: WOODBRIDGE LED POST-TOP LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND ASYMMETRIC OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2272 lumens
Efficiency: N/A
Efficacy: 66.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.58')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U3 - G1

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

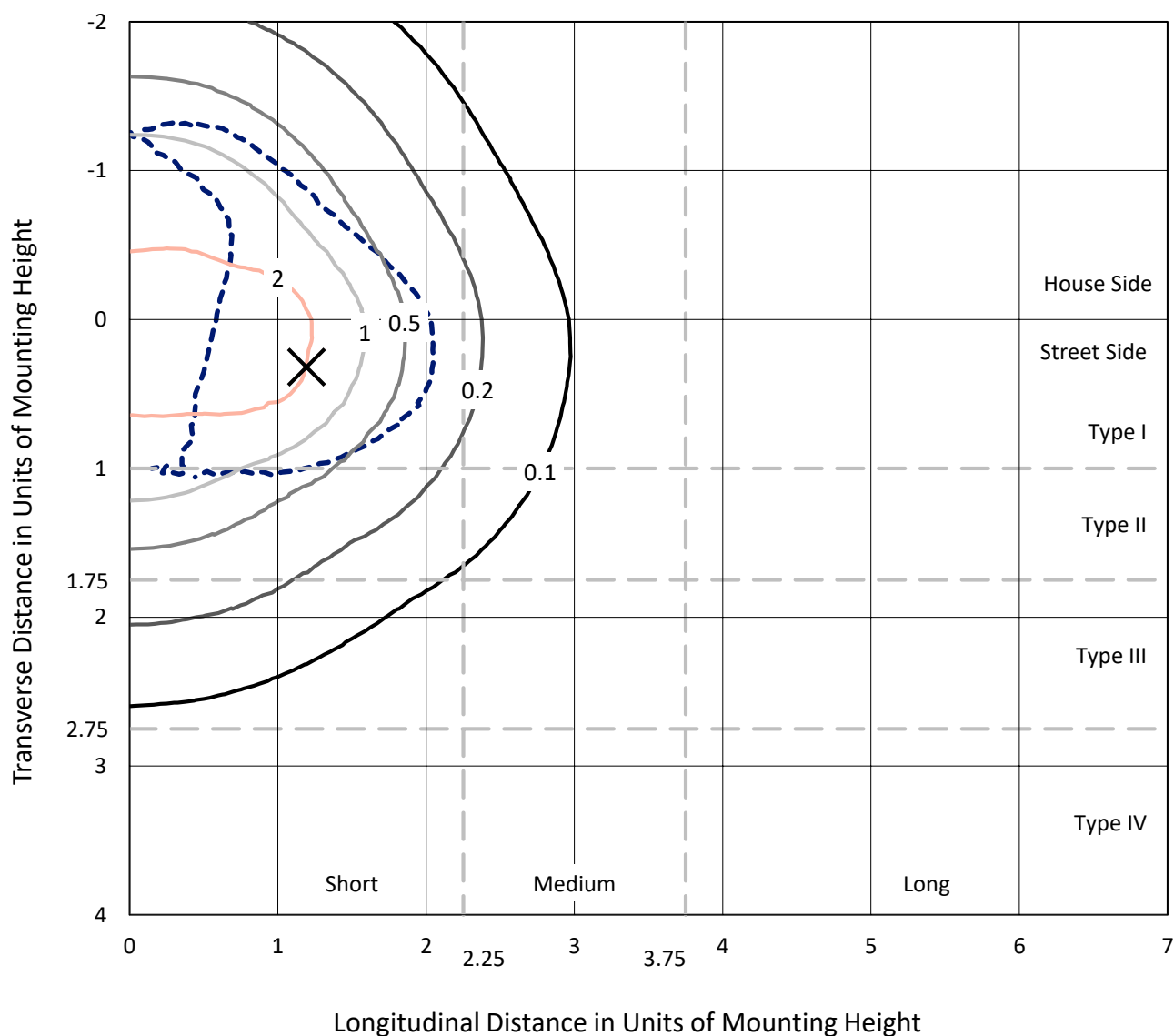


REPORT NUMBER: P212601

CATALOG NUMBER: MPW-AF-D-U-ASYM-8030-600

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

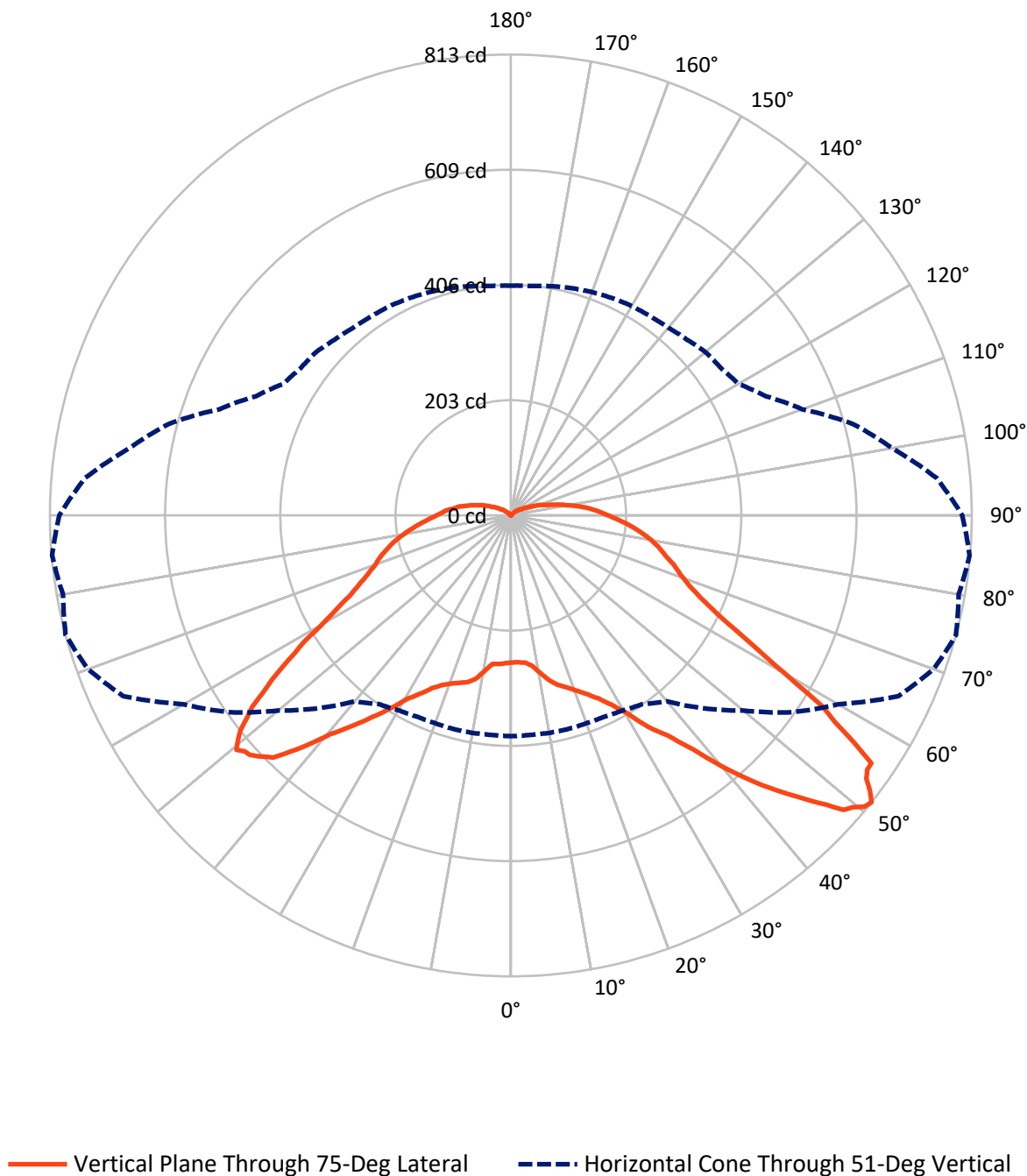


Based on 10 foot mounting height. Maximum calculated value = 2.8 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P212601

CATALOG NUMBER: MPW-AF-D-U-ASYM-8030-600

Luminous Intensity Polar Plot



REPORT NUMBER: P212601

CATALOG NUMBER: MPW-AF-D-U-ASYM-8030-600

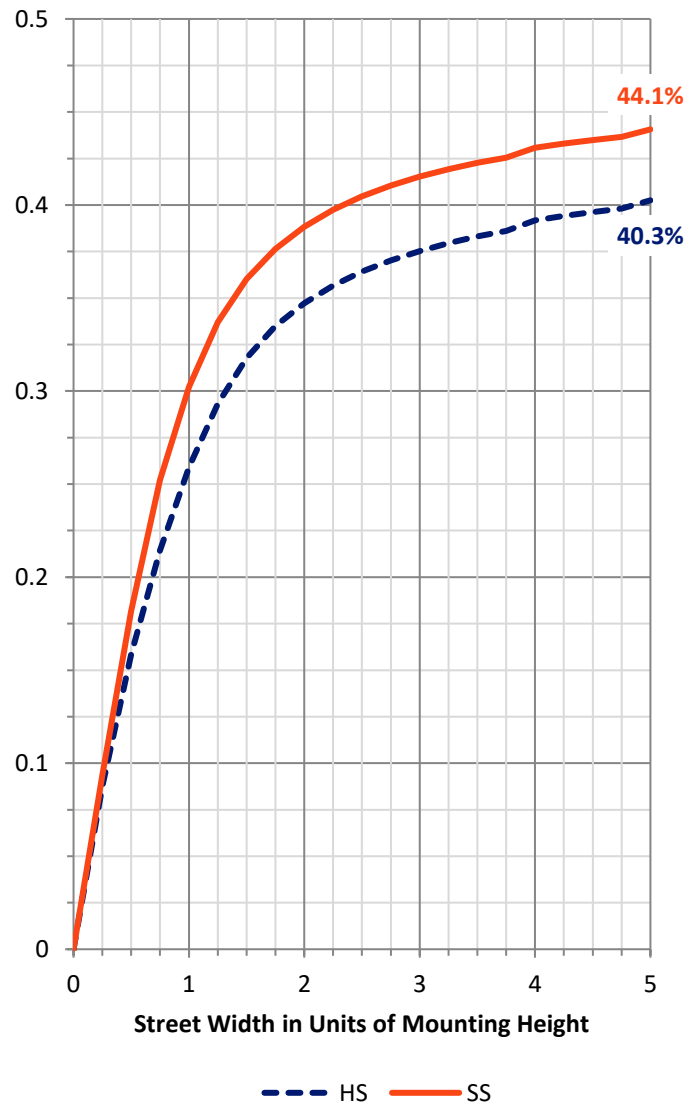
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	966.5	134.7	1101.1
	% Fixture	42.5	5.9	48.5
Street Side	Lumens	1045.9	125.0	1170.9
	% Fixture	46.0	5.5	51.5
Total	Lumens	2012.3	259.6	2272.0
	% Fixture	88.6	11.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.9	1.1
10°-20°	82.1	3.6
20°-30°	150.3	6.6
30°-40°	248.0	10.9
40°-50°	385.9	17.0
50°-60°	416.8	18.3
60°-70°	290.3	12.8
70°-80°	234.3	10.3
80°-90°	179.7	7.9
90°-100°	128.1	5.6
100°-110°	77.2	3.4
110°-120°	36.8	1.6
120°-130°	14.6	0.6
130°-140°	2.8	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°	2012.3	88.6
0°-180°	2272.0	100.0

Coefficient of Utilization



REPORT NUMBER: P212601

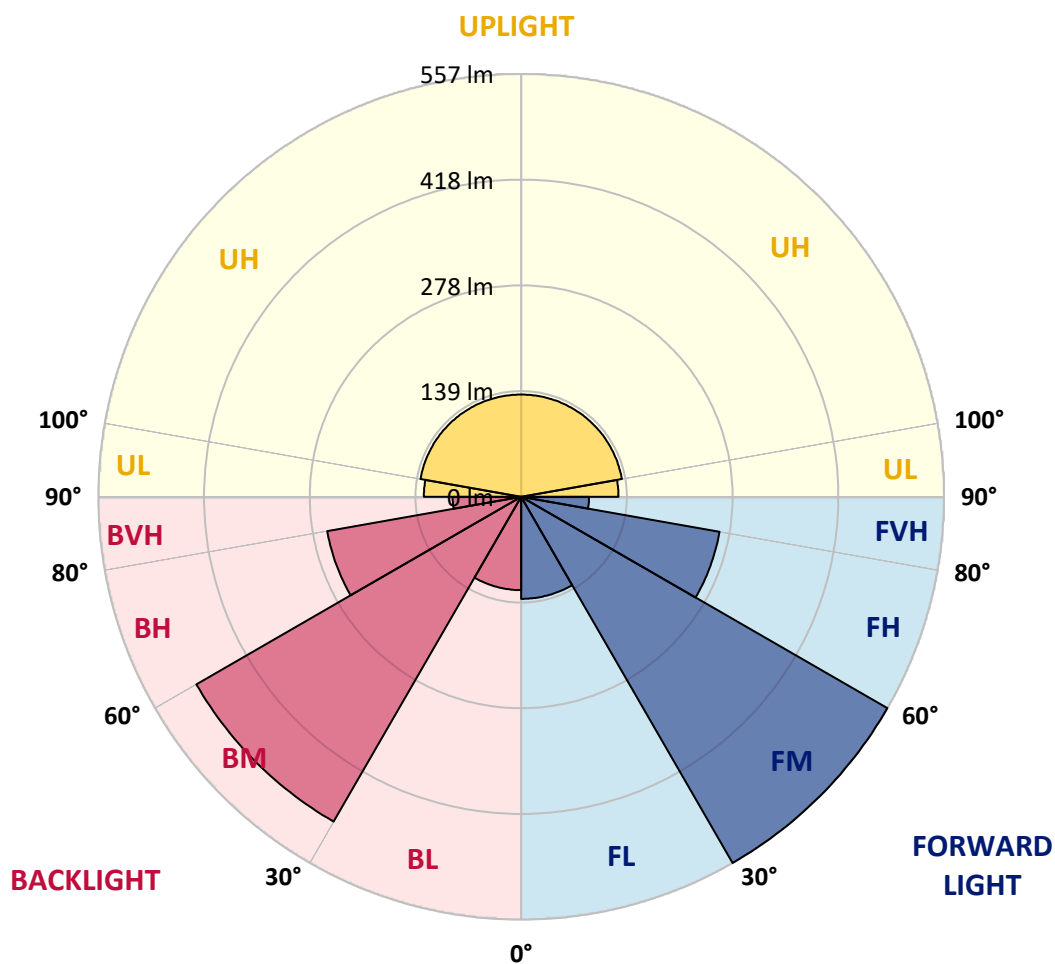
CATALOG NUMBER: MPW-AF-D-U-ASYM-8030-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	134.4	5.9			
FM	(30°-60°)	556.8	24.5			
FH	(60°-80°)	265.2	11.7			G0/660
FVH	(80°-90°)	89.4	3.9			G1/100
BL	(0°-30°)	122.9	5.4	B1/500		
BM	(30°-60°)	494.0	21.7	B1/1000		
BH	(60°-80°)	259.4	11.4	B1/500		G1/500
BVH	(80°-90°)	90.2	4.0			G1/100
UL	(90°-100°)	128.1	5.6		U3/500	
UH	(100°-180°)	134.7	5.9		U3/500	

BUG Rating: B1-U3-G1

Type II Short





REPORT NUMBER: P212601

CATALOG NUMBER: MPW-AF-D-U-ASYM-8030-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	259.2	259.2	259.2	259.2	259.2	259.2	259.2	259.2	259.2	259.2	259.2
2.5°	257.8	257.8	257.8	257.8	258.5	257.8	258.5	257.8	258.5	258.5	259.2
5°	249.0	249.0	250.5	250.5	251.2	251.9	253.4	253.4	254.8	255.6	256.3
7.5°	253.4	254.1	254.1	253.4	254.1	255.6	256.3	257.8	259.9	261.4	263.6
10°	262.1	261.4	262.1	262.1	262.8	264.3	266.5	269.4	270.8	273.7	276.6
12.5°	272.3	272.3	273.7	273.7	275.2	277.4	281.0	282.4	284.6	288.2	291.1
15°	284.6	284.6	285.3	286.1	287.5	290.4	293.3	295.5	297.0	299.1	301.3
17.5°	298.4	299.9	300.6	302.0	302.8	304.9	306.4	307.1	307.8	308.6	310.8
20°	310.0	310.0	311.5	312.9	314.4	318.0	318.7	318.7	318.0	319.5	320.9
22.5°	310.0	309.3	312.9	318.0	321.6	325.3	327.5	328.9	330.4	329.6	331.8
25°	303.5	304.2	307.8	313.7	321.6	328.2	334.0	337.6	341.2	342.0	344.9
27.5°	312.9	312.9	316.6	321.6	328.2	335.4	342.7	350.0	355.0	360.1	363.8
30°	320.9	322.4	326.7	333.3	338.3	345.6	353.6	362.3	369.6	376.1	381.2
32.5°	335.4	336.2	339.1	343.4	350.7	359.4	368.8	379.0	389.9	397.9	405.9
35°	351.4	349.2	349.2	352.9	358.7	366.7	377.6	390.6	410.9	421.8	432.7
37.5°	363.8	363.8	364.5	366.7	369.6	375.4	385.5	401.5	425.5	450.2	461.0
40°	382.6	382.6	381.9	384.1	387.0	392.1	400.8	416.0	436.4	477.0	505.3
42.5°	396.4	395.7	396.4	399.3	400.1	403.7	412.4	429.1	450.9	488.6	538.0
45°	404.4	404.4	403.7	405.1	407.3	411.7	417.5	434.2	462.5	501.0	551.8
46°	405.1	405.1	404.4	405.9	408.0	411.7	416.8	432.7	464.0	504.6	552.5
47°	404.4	403.0	403.0	403.7	405.1	408.0	413.1	426.9	460.3	498.8	553.3
48°	402.2	401.5	402.2	403.7	403.7	407.3	411.7	424.7	456.0	498.1	562.7
49°	400.8	400.8	401.5	402.2	403.7	405.9	411.7	424.0	449.4	497.4	556.9
50°	397.9	397.9	398.6	400.1	399.3	400.1	405.9	415.3	438.5	491.5	549.6
51°	389.2	388.4	389.2	389.9	389.9	391.3	396.4	405.9	427.6	480.7	535.1
52°	378.3	378.3	379.0	380.5	381.2	382.6	387.0	395.7	416.0	469.0	522.0
53°	362.3	363.8	367.4	367.4	368.8	371.0	376.1	384.8	403.7	449.4	505.3
54°	354.3	355.8	359.4	361.6	363.0	367.4	372.5	379.7	395.7	434.2	499.5
55°	336.2	337.6	340.5	344.2	345.6	350.0	355.0	363.8	380.5	415.3	473.4
56°	322.4	323.1	326.7	328.9	329.6	331.8	336.2	342.0	356.5	384.8	440.0
57°	310.0	308.6	310.8	313.7	314.4	316.6	320.9	325.3	337.6	364.5	413.1
58°	291.9	289.0	291.9	294.1	295.5	297.7	302.0	305.7	316.6	341.2	384.1
59°	277.4	278.8	281.7	283.9	285.3	287.5	289.7	294.1	303.5	323.1	363.8
60°	267.2	267.9	269.4	271.5	273.0	275.2	277.4	281.0	289.7	307.1	343.4
61°	258.5	258.5	260.7	262.8	262.8	265.0	266.5	269.4	277.4	291.9	324.5
62°	251.2	249.8	251.9	254.8	254.8	257.0	257.8	260.7	267.2	279.5	309.3
63°	242.5	243.2	244.0	246.9	246.9	249.0	249.0	252.7	257.0	268.6	295.5
64°	234.5	236.7	236.0	238.1	238.9	239.6	241.1	243.2	247.6	259.2	283.2
65°	231.6	231.6	233.8	234.5	235.2	236.7	238.1	240.3	244.7	254.1	279.5
66°	227.3	227.3	228.7	230.2	230.2	231.6	233.8	236.0	239.6	248.3	271.5
67°	222.9	222.9	223.6	225.1	225.1	225.8	228.0	230.2	234.5	243.2	265.0
68°	218.5	218.5	219.3	220.0	220.0	220.7	222.9	225.8	230.2	238.1	259.2
69°	215.6	212.7	214.9	214.9	214.9	216.4	217.1	220.0	225.8	234.5	253.4
70°	208.4	209.1	209.8	210.6	210.6	209.8	210.6	214.2	219.3	228.0	246.9
72.5°	198.9	199.7	200.4	200.4	199.7	199.7	200.4	202.6	206.9	215.6	233.1



REPORT NUMBER: P212601

CATALOG NUMBER: MPW-AF-D-U-ASYM-8030-600

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
75°	185.1	186.6	186.6	186.6	185.1	185.1	185.9	187.3	190.2	198.2	213.5
77.5°	176.4	175.7	176.4	175.7	175.0	175.0	174.3	175.0	177.2	184.4	198.2
80°	166.3	164.1	164.8	163.4	163.4	162.6	161.2	161.2	163.4	172.1	183.0
82.5°	153.2	152.5	153.2	152.5	151.0	149.6	148.1	148.8	151.0	154.7	166.3
85°	141.6	143.0	142.3	140.9	138.7	137.2	135.8	136.5	137.2	140.1	151.0
87.5°	132.9	132.1	132.9	130.7	129.2	127.8	126.3	125.6	126.3	129.2	135.0
90°	124.9	124.9	124.2	123.4	121.3	120.5	118.3	117.6	117.6	120.5	127.8
92.5°	119.1	118.3	116.9	116.9	114.0	111.8	111.1	110.4	109.6	112.5	119.1
95°	109.6	108.9	108.9	108.2	106.0	104.6	103.1	102.4	103.1	104.6	110.4
97.5°	95.8	98.0	95.8	95.8	93.7	92.9	92.2	90.8	90.8	92.9	97.3
100°	90.0	89.3	88.6	87.9	87.1	86.4	85.7	84.9	84.9	87.1	90.0
102.5°	81.3	79.1	79.1	76.2	76.2	76.2	75.5	75.5	76.2	79.1	80.6
105°	68.2	67.5	67.5	66.8	66.8	66.1	66.1	65.3	66.8	67.5	70.4
107.5°	58.1	58.1	58.1	57.4	57.4	57.4	57.4	57.4	57.4	58.8	61.0
110°	49.4	48.6	49.4	48.6	49.4	48.6	48.6	48.6	50.1	50.8	54.5
112.5°	39.2	39.9	40.7	39.9	39.9	40.7	40.7	40.7	41.4	42.1	43.6
115°	32.7	30.5	30.5	31.2	30.5	31.2	31.2	32.7	32.7	34.1	34.1
117.5°	25.4	25.4	25.4	26.1	26.1	26.1	26.9	27.6	27.6	28.3	29.0
120°	18.9	19.6	18.2	20.3	18.9	19.6	19.6	20.3	22.5	21.1	21.8
122.5°	15.2	15.2	15.2	16.0	16.0	16.0	16.0	16.7	16.7	16.7	17.4
125°	12.3	13.1	13.8	13.8	13.1	13.8	13.8	13.8	14.5	16.0	16.0
127.5°	10.2	9.4	10.2	10.2	10.9	10.9	10.2	10.2	10.9	10.9	11.6
130°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	8.0	8.0	8.0	8.0
132.5°	2.2	2.9	2.9	2.9	2.9	3.6	2.9	3.6	3.6	2.9	3.6
135°	0.7	0.7	0.7	0.7	0.7	1.5	1.5	2.2	1.5	0.7	1.5
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°	0.7	0.7	0.7	0.0	0.7	1.5	0.7	0.7	0.7	0.0	0.7
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: P212601

CATALOG NUMBER: MPW-AF-D-U-ASYM-8030-600

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	259.2	259.2	259.2	259.2	259.2	259.2	259.2	259.2	259.2	259.2	259.2
2.5°	259.2	259.2	259.9	259.2	259.2	259.2	259.9	259.9	259.9	260.7	260.7
5°	256.3	258.5	258.5	259.9	260.7	261.4	262.1	261.4	262.1	262.1	262.8
7.5°	264.3	264.3	266.5	266.5	267.2	267.2	267.9	265.7	265.7	265.0	263.6
10°	279.5	281.0	281.7	282.4	281.7	281.0	279.5	279.5	279.5	278.1	277.4
12.5°	292.6	295.5	297.0	298.4	297.7	297.7	296.2	295.5	295.5	295.5	294.1
15°	304.2	306.4	308.6	310.0	310.0	309.3	310.0	307.8	307.8	305.7	303.5
17.5°	313.7	316.6	318.0	320.2	318.7	318.0	317.3	315.1	313.7	311.5	308.6
20°	323.8	326.0	328.2	330.4	329.6	328.2	326.0	323.8	320.9	318.7	314.4
22.5°	334.7	337.6	340.5	342.0	342.0	340.5	337.6	335.4	331.1	327.5	322.4
25°	347.8	351.4	355.0	356.5	357.2	355.8	351.4	348.5	344.9	339.8	334.7
27.5°	367.4	372.5	376.1	377.6	377.6	376.8	373.2	370.3	364.5	360.1	352.9
30°	386.3	395.0	401.5	408.0	405.1	402.2	400.1	395.7	388.4	381.2	371.7
32.5°	416.8	427.6	439.3	444.3	444.3	442.2	437.1	432.7	426.9	416.0	401.5
35°	447.3	461.0	474.8	477.0	476.3	475.6	471.2	471.2	465.4	448.0	431.3
37.5°	477.0	503.9	519.9	524.9	524.2	524.2	517.7	515.5	503.2	484.3	464.7
40°	513.3	551.1	582.3	591.0	588.8	585.2	576.5	572.1	556.2	527.1	499.5
42.5°	557.6	597.5	643.3	658.5	650.5	644.0	644.0	631.7	617.2	586.7	549.6
45°	596.1	629.5	697.0	719.5	707.2	694.1	699.2	694.1	676.7	638.2	598.3
46°	605.5	646.2	725.3	747.1	731.9	718.1	723.9	716.6	697.7	657.1	607.0
47°	619.3	661.4	746.4	771.8	755.1	734.0	748.6	739.1	714.4	671.6	616.4
48°	625.9	673.8	766.7	790.0	783.4	754.4	771.1	755.1	737.0	681.8	624.4
49°	622.2	672.3	768.2	799.4	792.1	772.5	784.1	767.4	734.8	691.9	627.3
50°	619.3	671.6	765.3	803.0	807.4	794.3	794.3	782.0	742.0	683.2	636.0
51°	604.8	665.8	753.6	792.9	812.5	801.6	811.7	795.8	753.6	682.5	623.7
52°	583.8	656.4	741.3	784.1	797.9	791.4	810.3	803.7	758.7	682.5	609.2
53°	564.1	646.9	718.8	768.9	779.8	768.2	783.4	787.8	736.2	676.0	586.7
54°	544.5	619.3	710.1	780.5	771.8	756.6	777.6	776.9	723.2	640.4	567.1
55°	517.7	583.0	674.5	752.2	771.1	757.3	774.0	759.5	690.5	607.7	535.8
56°	486.5	552.5	616.4	691.9	725.3	739.1	753.6	734.0	658.5	581.6	509.7
57°	453.1	506.8	561.2	625.9	677.4	688.3	698.5	687.6	614.2	544.5	480.7
58°	421.1	468.3	515.5	575.0	644.7	662.2	662.2	654.2	575.0	511.9	451.6
59°	399.3	440.7	480.7	536.6	583.8	593.2	599.0	594.6	537.3	479.9	428.4
60°	376.1	412.4	452.3	500.3	534.4	539.5	540.9	530.7	487.2	443.6	397.2
61°	354.3	388.4	421.1	463.2	494.4	501.0	501.0	487.9	451.6	409.5	372.5
62°	337.6	367.4	395.0	430.6	461.0	469.0	465.4	455.2	423.3	384.1	352.1
63°	322.4	350.0	374.6	403.7	428.4	435.6	432.0	424.7	397.2	363.8	335.4
64°	308.6	333.3	355.8	381.2	403.0	409.5	403.0	397.9	374.6	342.7	317.3
65°	302.0	325.3	344.9	366.7	383.4	387.0	382.6	374.6	355.8	329.6	304.9
66°	294.8	315.8	334.0	352.1	365.2	368.8	365.2	357.2	339.1	315.8	293.3
67°	286.8	306.4	323.8	340.5	351.4	353.6	351.4	344.2	326.0	304.2	283.2
68°	280.3	299.1	314.4	329.6	338.3	341.2	340.5	332.5	312.9	293.3	273.7
69°	274.5	291.9	307.8	320.2	328.9	329.6	329.6	322.4	304.2	285.3	266.5
70°	267.9	284.6	298.4	311.5	318.7	320.2	320.2	312.9	297.0	277.4	257.0
72.5°	254.8	269.4	283.9	294.1	301.3	303.5	305.7	298.4	280.3	262.1	243.2



REPORT NUMBER: P212601

CATALOG NUMBER: MPW-AF-D-U-ASYM-8030-600

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
75°	236.7	249.8	263.6	273.0	281.0	283.2	286.1	281.0	262.8	244.7	228.0
77.5°	218.5	231.6	245.4	257.0	265.7	268.6	270.8	265.7	247.6	230.9	212.7
80°	200.4	212.0	227.3	238.1	247.6	249.8	252.7	244.7	230.9	212.0	195.3
82.5°	183.7	194.6	208.4	219.3	228.7	232.3	230.9	225.1	209.8	193.1	178.6
85°	166.3	176.4	188.8	198.2	207.7	209.8	209.1	202.6	189.5	175.0	161.9
87.5°	151.7	161.2	171.4	177.9	186.6	188.0	187.3	180.8	169.9	158.3	146.7
90°	139.4	147.4	156.8	161.9	167.7	172.1	170.6	164.1	153.9	144.5	132.9
92.5°	130.7	136.5	143.8	148.8	152.5	155.4	155.4	149.6	140.9	131.4	122.7
95°	118.3	123.4	130.0	133.6	136.5	140.1	140.1	135.8	128.5	121.3	114.0
97.5°	104.6	108.2	111.8	114.7	116.9	119.8	118.3	116.2	111.8	106.0	100.9
100°	92.9	94.4	96.6	98.7	99.5	101.6	102.4	101.6	98.7	95.8	92.9
102.5°	82.8	84.2	84.2	84.9	84.9	84.2	84.9	84.2	83.5	84.2	81.3
105°	70.4	71.9	70.4	69.0	69.0	69.7	70.4	71.2	71.2	71.9	71.2
107.5°	62.4	62.4	61.7	60.3	60.3	60.3	60.3	60.3	61.7	62.4	61.7
110°	53.7	52.3	52.3	51.6	50.8	50.8	51.6	50.8	51.6	53.0	53.7
112.5°	44.3	43.6	42.8	42.1	40.7	41.4	42.8	42.8	44.3	45.0	45.0
115°	34.1	34.9	35.6	33.4	32.7	32.7	32.7	34.1	34.9	34.9	36.3
117.5°	29.0	29.8	29.0	29.0	28.3	28.3	29.0	29.0	30.5	31.9	31.9
120°	22.5	21.8	21.8	23.2	21.8	22.5	23.2	22.5	22.5	24.7	26.1
122.5°	18.2	18.9	18.9	18.2	18.9	19.6	18.9	19.6	18.9	19.6	20.3
125°	16.7	16.7	16.7	16.7	16.7	17.4	18.2	18.2	17.4	17.4	18.2
127.5°	12.3	13.1	13.1	13.8	13.8	13.8	14.5	14.5	13.8	13.8	13.8
130°	9.4	9.4	10.2	12.3	10.9	10.9	11.6	10.9	11.6	11.6	10.2
132.5°	3.6	4.4	4.4	5.1	5.8	6.5	6.5	6.5	5.8	6.5	5.8
135°	2.2	1.5	2.2	2.9	2.2	3.6	3.6	2.9	3.6	3.6	3.6
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	1.5	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.7	1.5	0.7
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: P212601

CATALOG NUMBER: MPW-AF-D-U-ASYM-8030-600

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	259.2	259.2	259.2	259.2	259.2	259.2	259.2	259.2	259.2	259.2	259.2
2.5°	260.7	260.7	259.9	260.7	261.4	260.7	260.7	260.7	259.9	260.7	260.7
5°	262.8	262.8	263.6	262.8	263.6	263.6	263.6	262.8	262.1	262.1	260.7
7.5°	262.8	262.1	262.8	262.8	262.1	259.9	257.8	255.6	254.1	253.4	252.7
10°	275.9	273.7	270.8	267.2	263.6	259.9	257.0	253.4	249.8	248.3	245.4
12.5°	289.7	286.8	282.4	280.3	275.9	272.3	267.2	262.8	258.5	252.7	249.8
15°	300.6	298.4	294.8	290.4	283.9	278.1	272.3	267.2	262.8	259.2	255.6
17.5°	307.8	304.2	299.9	293.3	289.0	283.9	278.8	274.5	270.8	266.5	262.8
20°	311.5	307.1	302.8	299.1	294.8	289.7	286.1	281.0	276.6	270.8	267.2
22.5°	318.7	314.4	311.5	304.9	299.9	296.2	292.6	288.2	283.2	276.6	270.1
25°	328.9	323.8	318.0	312.9	309.3	304.9	299.1	291.1	285.3	279.5	275.2
27.5°	346.3	339.1	331.1	326.0	320.9	313.7	307.1	301.3	295.5	289.7	283.2
30°	360.9	349.2	341.2	334.7	325.3	319.5	312.9	306.4	299.9	294.8	290.4
32.5°	387.7	372.5	359.4	350.0	339.8	332.5	326.0	320.9	314.4	308.6	303.5
35°	412.4	395.0	379.0	364.5	355.0	347.8	339.8	332.5	326.0	320.2	315.8
37.5°	438.5	415.3	395.7	381.9	372.5	363.8	355.8	348.5	342.7	337.6	333.3
40°	471.2	440.7	418.2	403.0	391.3	381.9	373.2	365.2	360.1	355.0	351.4
42.5°	515.5	470.5	444.3	427.6	411.7	401.5	392.1	386.3	381.2	375.4	372.5
45°	545.3	498.1	461.0	440.0	426.9	418.2	412.4	405.9	404.4	398.6	393.5
46°	552.5	499.5	465.4	440.0	430.6	422.6	416.0	412.4	409.5	405.1	400.1
47°	551.8	498.1	463.2	440.0	431.3	425.5	420.4	419.7	413.9	409.5	407.3
48°	551.1	505.3	467.6	445.1	437.8	430.6	425.5	422.6	419.7	415.3	410.9
49°	549.6	502.4	468.3	449.4	442.9	434.9	429.1	425.5	421.8	418.2	414.6
50°	550.4	501.7	466.9	453.1	447.3	440.0	432.7	427.6	424.7	421.1	416.8
51°	546.7	496.6	463.2	452.3	448.0	438.5	432.0	428.4	426.2	422.6	418.9
52°	538.7	491.5	459.6	448.0	445.1	435.6	428.4	425.5	423.3	419.7	416.0
53°	517.7	471.2	441.4	433.5	429.8	423.3	421.1	419.7	418.2	416.0	411.7
54°	495.9	454.5	432.0	424.7	421.8	416.8	413.9	416.0	413.9	413.9	409.5
55°	477.7	439.3	421.1	414.6	411.7	407.3	404.4	405.1	405.1	404.4	400.1
56°	461.0	429.1	410.9	403.7	400.8	397.2	395.7	395.7	395.7	394.3	390.6
57°	439.3	412.4	400.8	395.7	392.8	389.2	389.2	388.4	387.0	384.8	383.4
58°	416.0	388.4	377.6	371.7	371.0	368.1	368.8	369.6	369.6	367.4	366.7
59°	392.8	368.8	357.9	354.3	351.4	351.4	352.1	352.9	353.6	353.6	351.4
60°	366.7	344.9	336.2	334.0	333.3	333.3	333.3	335.4	336.9	337.6	337.6
61°	347.1	327.5	318.7	316.6	316.6	316.6	317.3	319.5	320.2	320.9	320.2
62°	328.9	310.8	302.8	302.0	302.0	302.8	302.8	304.9	304.9	305.7	304.9
63°	311.5	295.5	289.7	287.5	289.0	289.0	288.2	290.4	292.6	291.9	290.4
64°	294.1	281.0	275.2	274.5	273.7	274.5	273.7	275.9	276.6	276.6	278.1
65°	285.3	273.0	266.5	265.0	266.5	265.7	267.9	268.6	269.4	270.1	269.4
66°	275.9	264.3	259.2	256.3	257.0	257.0	259.2	259.9	261.4	260.7	262.8
67°	267.9	255.6	250.5	249.0	249.0	249.0	249.8	251.9	252.7	254.1	254.1
68°	259.2	248.3	244.7	243.2	243.2	242.5	243.2	245.4	246.1	247.6	248.3
69°	251.9	241.8	238.1	236.0	237.4	236.0	236.7	240.3	239.6	241.1	245.4
70°	245.4	235.2	232.3	232.3	230.9	231.6	231.6	233.1	233.8	236.7	236.0
72.5°	233.1	224.4	220.0	220.7	220.7	220.7	221.4	222.9	223.6	225.8	227.3



REPORT NUMBER: P212601
CATALOG NUMBER: MPW-AF-D-U-ASYM-8030-600

REPORT N
CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°	
75°	215.6	208.4	206.2	206.2	206.2	207.7	207.7	208.4	212.0	213.5	213.5	0°
77.5°	203.3	196.0	193.9	193.9	195.3	196.0	197.5	198.9	200.4	203.3	204.0	2.5°
80°	186.6	180.8	180.1	180.8	182.2	183.7	185.1	188.8	190.2	191.0	195.3	5°
82.5°	172.1	166.3	166.3	167.7	169.9	171.4	174.3	175.7	177.2	179.3	180.8	7.5°
85°	155.4	151.0	152.5	153.9	157.6	158.3	159.7	162.6	164.8	165.5	167.7	10°
87.5°	140.9	138.7	139.4	141.6	143.8	147.4	148.8	150.3	153.2	154.7	154.7	12.5°
90°	129.2	127.1	129.2	132.1	134.3	135.8	138.0	139.4	141.6	142.3	143.0	15°
92.5°	119.8	118.3	120.5	123.4	125.6	126.3	127.8	131.4	132.1	133.6	133.6	17.5°
95°	111.1	110.4	112.5	114.7	116.9	119.1	120.5	122.7	124.9	125.6	125.6	20°
97.5°	98.7	98.0	100.2	104.6	105.3	106.0	107.5	108.9	111.8	112.5	111.8	22.5°
100°	92.2	91.5	92.2	95.1	95.8	98.7	99.5	101.6	102.4	103.8	103.1	25°
102.5°	79.9	80.6	82.0	82.0	84.9	84.9	87.1	88.6	89.3	91.5	94.4	27.5°
105°	71.2	71.2	71.9	71.9	73.3	74.1	74.1	76.2	77.7	77.7	78.4	30°
107.5°	62.4	62.4	63.2	63.9	64.6	64.6	65.3	66.8	66.8	68.2	68.2	32.5°
110°	53.7	55.2	54.5	54.5	54.5	55.9	56.6	56.6	57.4	58.1	58.1	35°
112.5°	45.7	45.7	45.7	46.5	47.2	47.2	47.9	47.9	48.6	49.4	49.4	37.5°
115°	37.0	37.0	37.8	37.0	36.3	37.0	37.0	37.8	38.5	37.8	42.1	40°
117.5°	32.7	31.9	31.2	31.9	31.2	31.2	31.2	31.9	32.7	32.7	34.1	42.5°
120°	24.0	24.0	24.0	24.0	25.4	24.0	24.0	23.2	24.7	24.0	24.7	45°
122.5°	20.3	19.6	19.6	19.6	19.6	19.6	19.6	20.3	19.6	20.3	19.6	46°
125°	17.4	17.4	18.9	17.4	16.7	17.4	17.4	17.4	17.4	18.2	21.1	47°
127.5°	13.8	14.5	13.8	13.8	13.8	14.5	13.8	13.8	14.5	15.2	14.5	48°
130°	11.6	10.2	10.9	10.9	10.9	10.9	10.9	10.9	11.6	13.1	12.3	49°
132.5°	5.8	5.8	5.8	6.5	7.3	7.3	6.5	7.3	7.3	8.0	7.3	50°
135°	4.4	5.1	3.6	3.6	5.1	4.4	5.8	5.1	5.1	5.1	4.4	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°	1.5	1.5	0.7	0.7	0.7	1.5	0.7	1.5	0.7	1.5	1.5	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: P212601

NUMBER: MPW-AF-D-U-ASYM-8030-600

REPORT NUMBER: P

CATALOG NUMBER:

DISTRIBUTION (continued):

165°	170°	175°	180°
259.2	259.2	259.2	259.2
260.7	259.2	259.9	259.9
260.7	260.7	260.7	259.2
251.2	251.9	251.2	251.2
244.0	242.5	241.8	241.1
248.3	247.6	246.9	246.9
253.4	251.9	251.2	251.2
259.2	257.8	255.6	258.5
264.3	262.1	259.9	259.9
265.7	263.6	261.4	260.7
269.4	265.7	263.6	263.6
278.8	275.2	273.7	273.0
285.3	282.4	278.8	278.1
299.1	296.2	294.8	293.3
312.9	310.0	308.6	307.1
331.1	326.7	324.5	323.8
348.5	344.9	342.7	344.9
368.8	365.2	363.8	362.3
390.6	386.3	381.9	381.9
396.4	392.8	390.6	389.9
402.2	398.6	394.3	392.8
408.8	403.7	400.1	400.1
410.2	406.6	403.0	401.5
413.1	410.2	405.9	405.1
414.6	410.2	405.9	405.1
412.4	408.8	405.1	404.4
409.5	405.1	400.8	403.7
405.9	402.2	398.6	397.9
397.9	394.3	390.6	390.6
388.4	385.5	381.9	380.5
381.2	375.4	370.3	371.0
363.0	360.1	356.5	355.8
348.5	347.8	345.6	344.9
336.2	334.0	332.5	331.8
318.0	318.0	315.1	314.4
304.2	302.8	301.3	301.3
291.9	290.4	289.7	290.4
278.1	278.8	276.6	278.1
270.8	271.5	270.8	269.4
262.8	263.6	262.1	262.8
256.3	256.3	255.6	254.8
250.5	250.5	249.0	249.0
243.2	244.7	244.0	243.2
238.9	238.9	239.6	237.4
228.0	229.4	229.4	229.4

CANDELA DISTRIBUTION:

	165°
75°	214.9
77.5°	205.5
80°	193.9
82.5°	181.5
85°	168.4
87.5°	154.7
90°	144.5
92.5°	133.6
95°	127.1
97.5°	113.3
100°	104.6
102.5°	91.5
105°	78.4
107.5°	68.2
110°	58.1
112.5°	50.1
115°	39.2
117.5°	33.4
120°	25.4
122.5°	21.1
125°	18.9
127.5°	14.5
130°	11.6
132.5°	7.3
135°	5.8
137.5°	0.0
140°	1.5
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



'212601

MPW-AF-D-U-ASYM-8030-600

TION (continued):

[illegible]

(END OF REPORT)