

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: P212606

Luminaire Tested: **MPW-AF-D-U-ASYM-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P212606
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-8030-800
Description: WOODBRIDGE LED POST-TOP LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND ASYMMETRIC OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2786 lumens
Efficiency: N/A
Efficacy: 63.3 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): 44
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

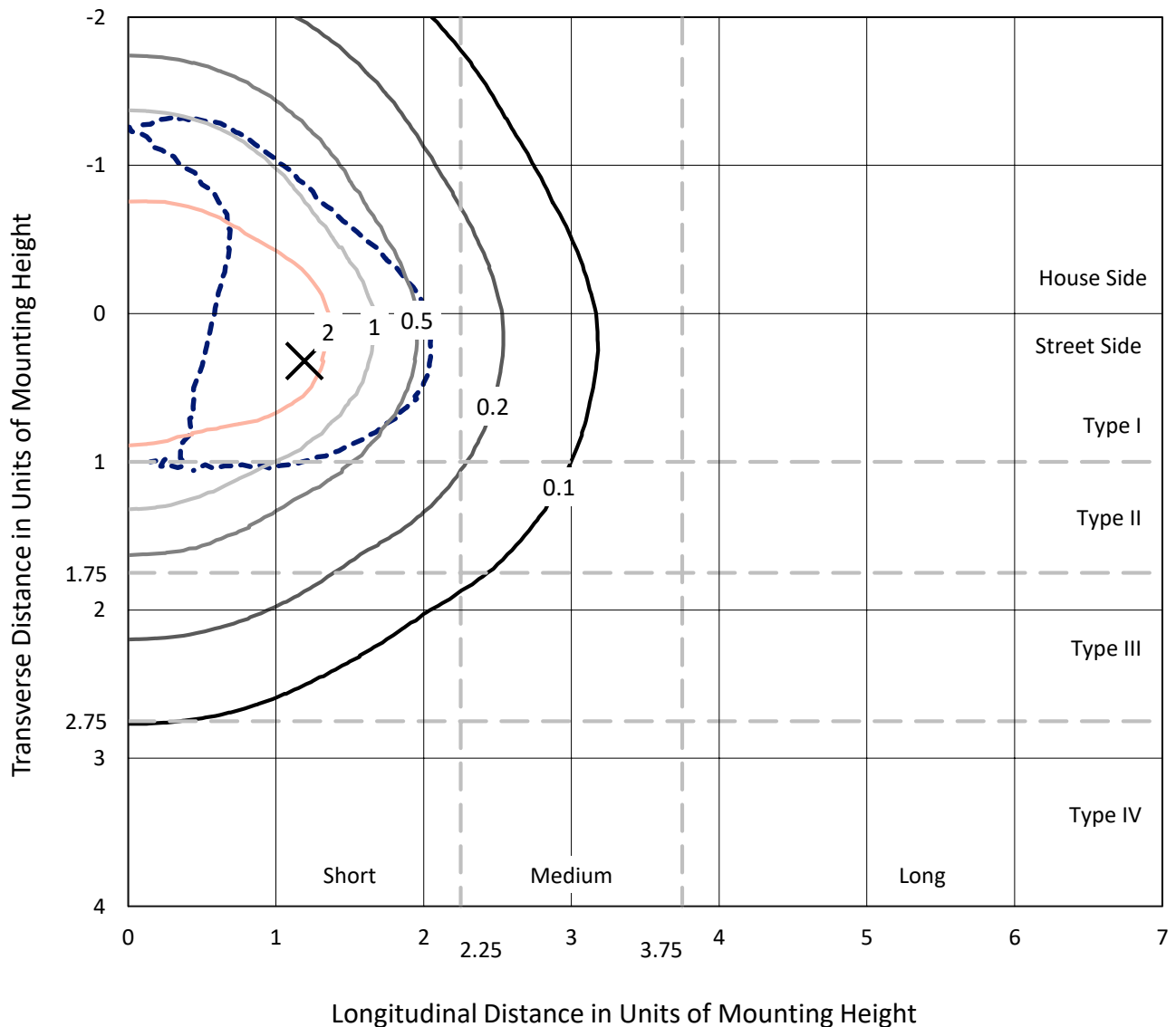


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

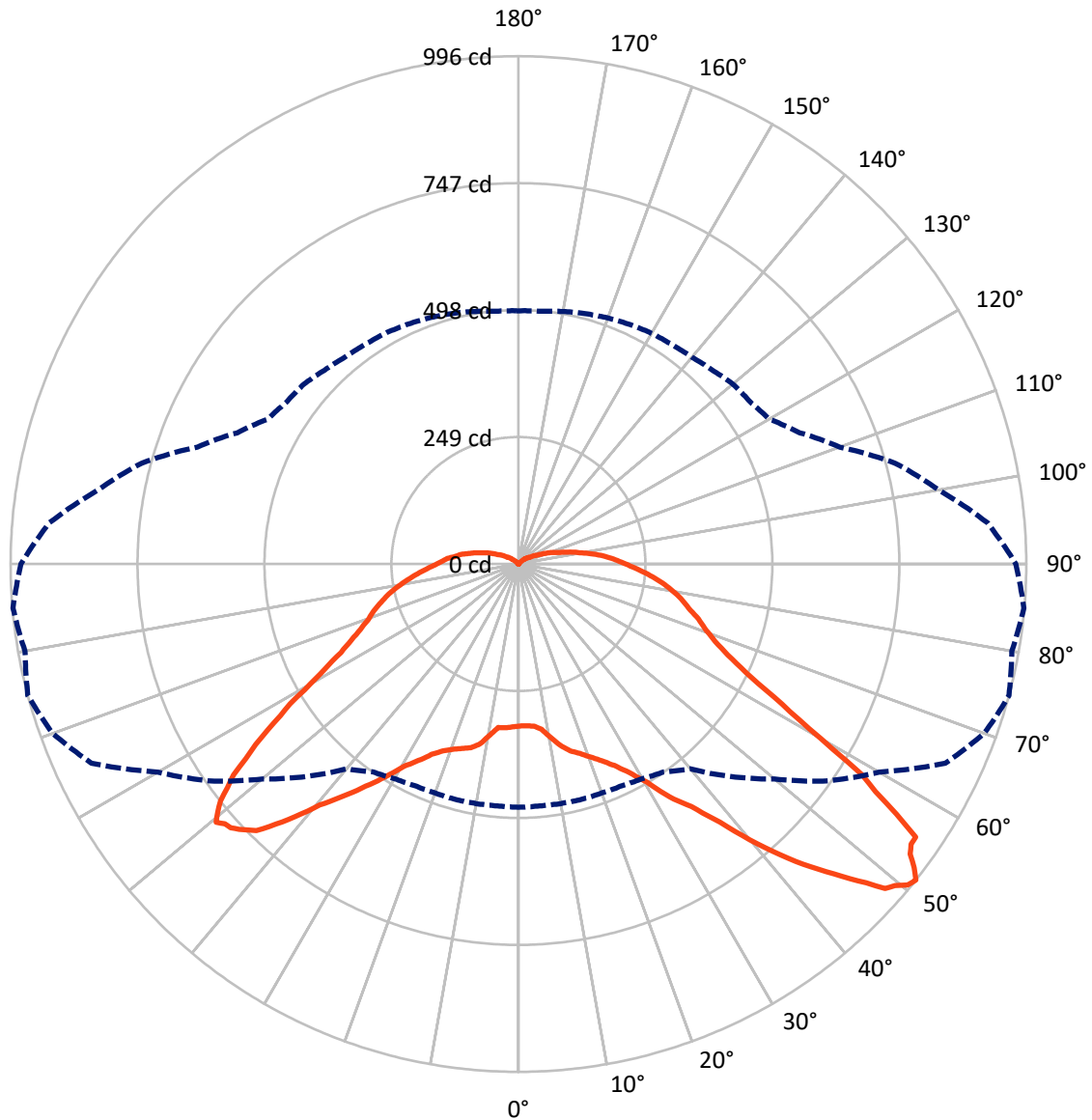


Based on 10 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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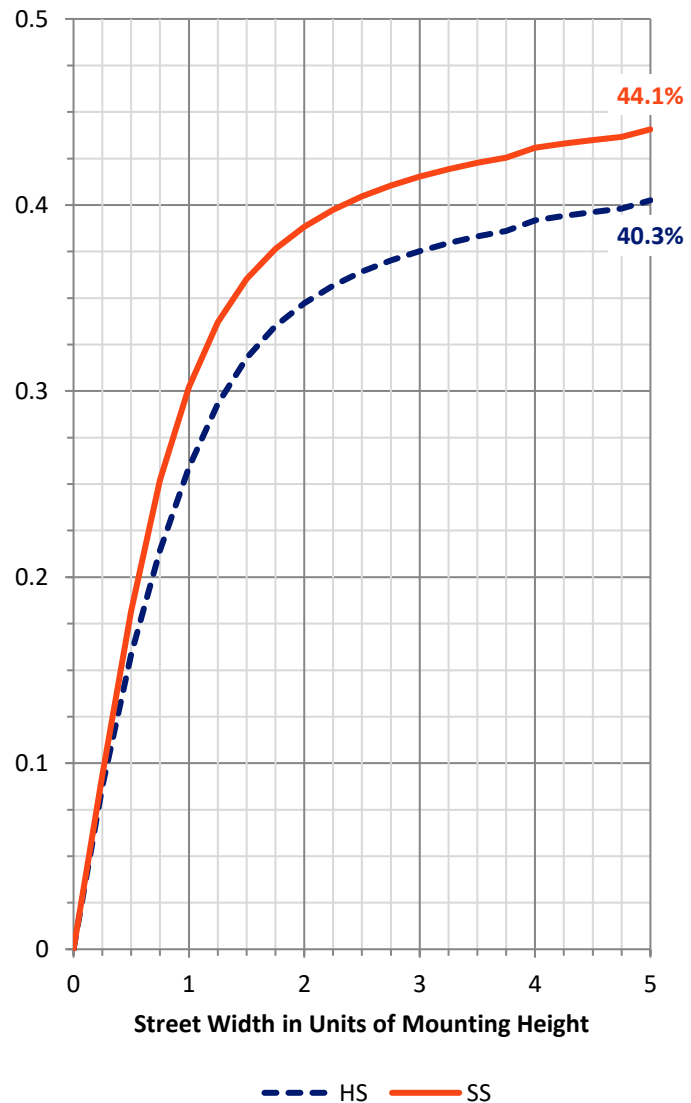
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1185.1	165.1	1350.2
	% Fixture	42.5	5.9	48.5
Street Side	Lumens	1282.5	153.3	1435.8
	% Fixture	46.0	5.5	51.5
Total	Lumens	2467.6	318.4	2786.0
	% Fixture	88.6	11.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.5	1.1
10°-20°	100.7	3.6
20°-30°	184.3	6.6
30°-40°	304.1	10.9
40°-50°	473.3	17.0
50°-60°	511.1	18.3
60°-70°	355.9	12.8
70°-80°	287.3	10.3
80°-90°	220.3	7.9
90°-100°	157.1	5.6
100°-110°	94.7	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°	2467.6	88.6
0°-180°	2786.0	100.0



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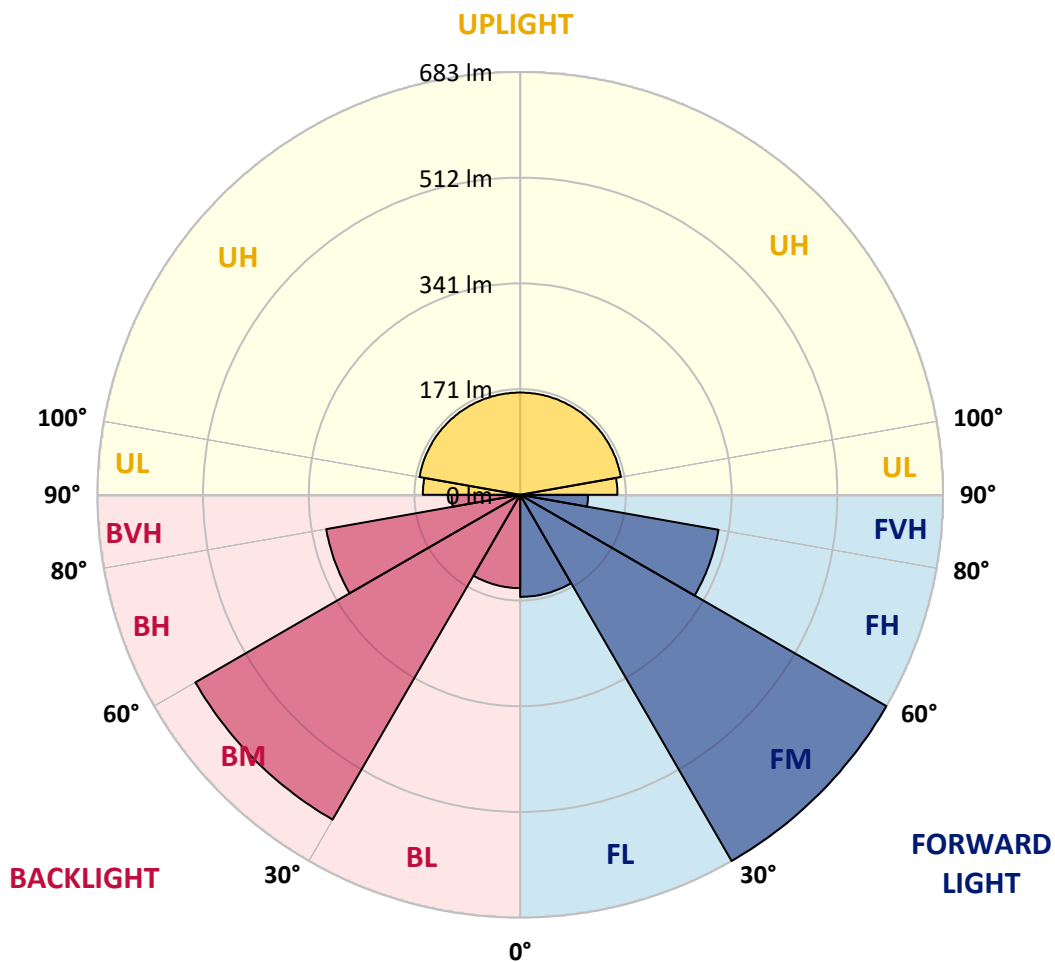
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	164.8	5.9			
FM (30°-60°)	682.8	24.5			
FH (60°-80°)	325.3	11.7			G0/660
FVH (80°-90°)	109.6	3.9			G2/225
BL (0°-30°)	150.7	5.4	B1/500		
BM (30°-60°)	605.7	21.7	B1/1000		
BH (60°-80°)	318.0	11.4	B1/500		G1/500
BVH (80°-90°)	110.7	4.0			G2/225
UL (90°-100°)	157.1	5.6		U3/500	
UH (100°-180°)	165.1	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°	317.8	317.8	317.8	317.8	317.8	317.8	317.8	317.8	317.8	317.8	317.8
2.5°	316.1	316.1	316.1	316.1	317.0	316.1	317.0	316.1	317.0	317.0	317.8
5°	305.4	305.4	307.2	307.2	308.0	308.9	310.7	310.7	312.5	313.4	314.3
7.5°	310.7	311.6	311.6	310.7	311.6	313.4	314.3	316.1	318.7	320.5	323.2
10°	321.4	320.5	321.4	321.4	322.3	324.1	326.7	330.3	332.1	335.6	339.2
12.5°	333.9	333.9	335.6	335.6	337.4	340.1	344.6	346.3	349.0	353.5	357.0
15°	349.0	349.0	349.9	350.8	352.6	356.1	359.7	362.4	364.1	366.8	369.5
17.5°	365.9	367.7	368.6	370.4	371.3	373.9	375.7	376.6	377.5	378.4	381.1
20°	380.2	380.2	381.9	383.7	385.5	390.0	390.8	390.8	390.0	391.7	393.5
22.5°	380.2	379.3	383.7	390.0	394.4	398.9	401.5	403.3	405.1	404.2	406.9
25°	372.2	373.0	377.5	384.6	394.4	402.4	409.5	414.0	418.4	419.3	422.9
27.5°	383.7	383.7	388.2	394.4	402.4	411.3	420.2	429.1	435.4	441.6	446.0
30°	393.5	395.3	400.6	408.7	414.9	423.8	433.6	444.3	453.2	461.2	467.4
32.5°	411.3	412.2	415.8	421.1	430.0	440.7	452.3	464.7	478.1	487.9	497.7
35°	430.9	428.2	428.2	432.7	439.8	449.6	463.0	479.0	503.9	517.3	530.6
37.5°	446.0	446.0	446.9	449.6	453.2	460.3	472.8	492.3	521.7	552.0	565.4
40°	469.2	469.2	468.3	471.0	474.5	480.8	491.5	510.2	535.1	584.9	619.7
42.5°	486.1	485.2	486.1	489.7	490.6	495.0	505.7	526.2	552.9	599.2	659.7
45°	495.9	495.9	495.0	496.8	499.5	504.8	511.9	532.4	567.1	614.3	676.6
46°	496.8	496.8	495.9	497.7	500.4	504.8	511.0	530.6	568.9	618.8	677.5
47°	495.9	494.1	494.1	495.0	496.8	500.4	506.6	523.5	564.5	611.6	678.4
48°	493.2	492.3	493.2	495.0	495.0	499.5	504.8	520.8	559.1	610.8	690.0
49°	491.5	491.5	492.3	493.2	495.0	497.7	504.8	519.9	551.1	609.9	682.9
50°	487.9	487.9	488.8	490.6	489.7	490.6	497.7	509.3	537.8	602.7	674.0
51°	477.2	476.3	477.2	478.1	478.1	479.9	486.1	497.7	524.4	589.4	656.2
52°	463.9	463.9	464.7	466.5	467.4	469.2	474.5	485.2	510.2	575.1	640.1
53°	444.3	446.0	450.5	450.5	452.3	455.0	461.2	471.9	495.0	551.1	619.7
54°	434.5	436.3	440.7	443.4	445.2	450.5	456.7	465.6	485.2	532.4	612.5
55°	412.2	414.0	417.6	422.0	423.8	429.1	435.4	446.0	466.5	509.3	580.5
56°	395.3	396.2	400.6	403.3	404.2	406.9	412.2	419.3	437.1	471.9	539.5
57°	380.2	378.4	381.1	384.6	385.5	388.2	393.5	398.9	414.0	446.9	506.6
58°	357.9	354.3	357.9	360.6	362.4	365.0	370.4	374.8	388.2	418.4	471.0
59°	340.1	341.9	345.4	348.1	349.9	352.6	355.2	360.6	372.2	396.2	446.0
60°	327.6	328.5	330.3	333.0	334.8	337.4	340.1	344.6	355.2	376.6	421.1
61°	317.0	317.0	319.6	322.3	322.3	325.0	326.7	330.3	340.1	357.9	398.0
62°	308.0	306.3	308.9	312.5	312.5	315.2	316.1	319.6	327.6	342.8	379.3
63°	297.4	298.3	299.1	302.7	302.7	305.4	305.4	309.8	315.2	329.4	362.4
64°	287.6	290.2	289.4	292.0	292.9	293.8	295.6	298.3	303.6	317.8	347.2
65°	284.0	284.0	286.7	287.6	288.5	290.2	292.0	294.7	300.0	311.6	342.8
66°	278.7	278.7	280.5	282.2	282.2	284.0	286.7	289.4	293.8	304.5	333.0
67°	273.3	273.3	274.2	276.0	276.0	276.9	279.6	282.2	287.6	298.3	325.0
68°	268.0	268.0	268.9	269.8	269.8	270.7	273.3	276.9	282.2	292.0	317.8
69°	264.4	260.9	263.5	263.5	263.5	265.3	266.2	269.8	276.9	287.6	310.7
70°	255.5	256.4	257.3	258.2	258.2	257.3	258.2	262.6	268.9	279.6	302.7
72.5°	243.9	244.8	245.7	245.7	244.8	244.8	245.7	248.4	253.7	264.4	285.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
75°	227.0	228.8	228.8	228.8	227.0	227.0	227.9	229.7	233.3	243.1	261.8
77.5°	216.3	215.5	216.3	215.5	214.6	214.6	213.7	214.6	217.2	226.1	243.1
80°	203.9	201.2	202.1	200.3	200.3	199.4	197.7	197.7	200.3	211.0	224.4
82.5°	187.9	187.0	187.9	187.0	185.2	183.4	181.6	182.5	185.2	189.6	203.9
85°	173.6	175.4	174.5	172.7	170.1	168.3	166.5	167.4	168.3	171.8	185.2
87.5°	162.9	162.0	162.9	160.3	158.5	156.7	154.9	154.0	154.9	158.5	165.6
90°	153.1	153.1	152.2	151.4	148.7	147.8	145.1	144.2	144.2	147.8	156.7
92.5°	146.0	145.1	143.3	143.3	139.8	137.1	136.2	135.3	134.4	138.0	146.0
95°	134.4	133.5	133.5	132.7	130.0	128.2	126.4	125.5	126.4	128.2	135.3
97.5°	117.5	120.2	117.5	117.5	114.9	114.0	113.1	111.3	111.3	114.0	119.3
100°	110.4	109.5	108.6	107.7	106.8	105.9	105.1	104.2	104.2	106.8	110.4
102.5°	99.7	97.0	97.0	93.5	93.5	93.5	92.6	92.6	93.5	97.0	98.8
105°	83.7	82.8	82.8	81.9	81.9	81.0	81.0	80.1	81.9	82.8	86.4
107.5°	71.2	71.2	71.2	70.3	70.3	70.3	70.3	70.3	70.3	72.1	74.8
110°	60.5	59.7	60.5	59.7	60.5	59.7	59.7	59.7	61.4	62.3	66.8
112.5°	48.1	49.0	49.9	49.0	49.0	49.9	49.9	49.9	50.7	51.6	53.4
115°	40.1	37.4	37.4	38.3	37.4	38.3	38.3	40.1	40.1	41.8	41.8
117.5°	31.2	31.2	31.2	32.1	32.1	32.1	32.9	33.8	33.8	34.7	35.6
120°	23.1	24.0	22.3	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	13.4	13.4	12.5	12.5	13.4	13.4	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	4.5	3.6	4.5	4.5	3.6	4.5
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°	317.8	317.8	317.8	317.8	317.8	317.8	317.8	317.8	317.8	317.8	317.8
2.5°	317.8	317.8	318.7	317.8	317.8	317.8	318.7	318.7	318.7	319.6	319.6
5°	314.3	317.0	317.0	318.7	319.6	320.5	321.4	320.5	321.4	321.4	322.3
7.5°	324.1	324.1	326.7	326.7	327.6	327.6	328.5	325.9	325.9	325.0	323.2
10°	342.8	344.6	345.4	346.3	345.4	344.6	342.8	342.8	342.8	341.0	340.1
12.5°	358.8	362.4	364.1	365.9	365.0	365.0	363.2	362.4	362.4	362.4	360.6
15°	373.0	375.7	378.4	380.2	380.2	379.3	380.2	377.5	377.5	374.8	372.2
17.5°	384.6	388.2	390.0	392.6	390.8	390.0	389.1	386.4	384.6	381.9	378.4
20°	397.1	399.8	402.4	405.1	404.2	402.4	399.8	397.1	393.5	390.8	385.5
22.5°	410.4	414.0	417.6	419.3	419.3	417.6	414.0	411.3	406.0	401.5	395.3
25°	426.5	430.9	435.4	437.1	438.0	436.3	430.9	427.4	422.9	416.7	410.4
27.5°	450.5	456.7	461.2	463.0	463.0	462.1	457.6	454.1	446.9	441.6	432.7
30°	473.6	484.3	492.3	500.4	496.8	493.2	490.6	485.2	476.3	467.4	455.8
32.5°	511.0	524.4	538.6	544.9	544.9	542.2	536.0	530.6	523.5	510.2	492.3
35°	548.4	565.4	582.3	584.9	584.0	583.2	577.8	577.8	570.7	549.3	528.8
37.5°	584.9	617.9	637.5	643.7	642.8	642.8	634.8	632.1	617.0	593.8	569.8
40°	629.5	675.8	714.0	724.7	722.0	717.6	706.9	701.6	682.0	646.4	612.5
42.5°	683.8	732.7	788.8	807.5	797.7	789.7	789.7	774.6	756.8	719.4	674.0
45°	731.0	771.9	854.7	882.3	867.2	851.1	857.4	851.1	829.8	782.6	733.6
46°	742.5	792.4	889.4	916.1	897.4	880.5	887.6	878.7	855.6	805.7	744.3
47°	759.4	811.1	915.2	946.4	925.9	900.1	917.9	906.3	876.1	823.5	755.9
48°	767.5	826.2	940.2	968.7	960.7	925.0	945.5	925.9	903.7	836.0	765.7
49°	763.0	824.4	942.0	980.2	971.3	947.3	961.5	941.1	901.0	848.5	769.2
50°	759.4	823.5	938.4	984.7	990.0	974.0	974.0	958.9	909.9	837.8	779.9
51°	741.6	816.4	924.1	972.2	996.3	982.9	995.4	975.8	924.1	836.9	764.8
52°	715.8	804.8	909.0	961.5	978.5	970.4	993.6	985.6	930.4	836.9	747.0
53°	691.8	793.3	881.4	942.8	956.2	942.0	960.7	966.0	902.8	828.9	719.4
54°	667.7	759.4	870.7	957.1	946.4	927.7	953.5	952.6	886.8	785.3	695.3
55°	634.8	714.9	827.1	922.4	945.5	928.6	949.1	931.3	846.7	745.2	657.1
56°	596.5	677.5	755.9	848.5	889.4	906.3	924.1	900.1	807.5	713.1	625.0
57°	555.6	621.4	688.2	767.5	830.7	844.0	856.5	843.1	753.2	667.7	589.4
58°	516.4	574.3	632.1	705.1	790.6	812.0	812.0	802.2	705.1	627.7	553.8
59°	489.7	540.4	589.4	657.9	715.8	727.4	734.5	729.2	658.8	588.5	525.3
60°	461.2	505.7	554.7	613.4	655.3	661.5	663.3	650.8	597.4	544.0	487.0
61°	434.5	476.3	516.4	568.0	606.3	614.3	614.3	598.3	553.8	502.1	456.7
62°	414.0	450.5	484.3	528.0	565.4	575.1	570.7	558.2	519.1	471.0	431.8
63°	395.3	429.1	459.4	495.0	525.3	534.2	529.7	520.8	487.0	446.0	411.3
64°	378.4	408.7	436.3	467.4	494.1	502.1	494.1	487.9	459.4	420.2	389.1
65°	370.4	398.9	422.9	449.6	470.1	474.5	469.2	459.4	436.3	404.2	373.9
66°	361.5	387.3	409.5	431.8	447.8	452.3	447.8	438.0	415.8	387.3	359.7
67°	351.7	375.7	397.1	417.6	430.9	433.6	430.9	422.0	399.8	373.0	347.2
68°	343.7	366.8	385.5	404.2	414.9	418.4	417.6	407.8	383.7	359.7	335.6
69°	336.5	357.9	377.5	392.6	403.3	404.2	404.2	395.3	373.0	349.9	326.7
70°	328.5	349.0	365.9	381.9	390.8	392.6	392.6	383.7	364.1	340.1	315.2
72.5°	312.5	330.3	348.1	360.6	369.5	372.2	374.8	365.9	343.7	321.4	298.3



REPORT NUMBER: P212606

CATALOG NUMBER: MPW-AF-D-U-ASYM-8030-800

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
75°	290.2	306.3	323.2	334.8	344.6	347.2	350.8	344.6	322.3	300.0	279.6
77.5°	268.0	284.0	300.9	315.2	325.9	329.4	332.1	325.9	303.6	283.1	260.9
80°	245.7	260.0	278.7	292.0	303.6	306.3	309.8	300.0	283.1	260.0	239.5
82.5°	225.3	238.6	255.5	268.9	280.5	284.9	283.1	276.0	257.3	236.8	219.0
85°	203.9	216.3	231.5	243.1	254.6	257.3	256.4	248.4	232.4	214.6	198.5
87.5°	186.1	197.7	210.1	218.1	228.8	230.6	229.7	221.7	208.3	194.1	179.8
90°	170.9	180.7	192.3	198.5	205.7	211.0	209.2	201.2	188.7	177.2	162.9
92.5°	160.3	167.4	176.3	182.5	187.0	190.5	190.5	183.4	172.7	161.1	150.5
95°	145.1	151.4	159.4	163.8	167.4	171.8	171.8	166.5	157.6	148.7	139.8
97.5°	128.2	132.7	137.1	140.7	143.3	146.9	145.1	142.5	137.1	130.0	123.8
100°	114.0	115.7	118.4	121.1	122.0	124.6	125.5	124.6	121.1	117.5	114.0
102.5°	101.5	103.3	103.3	104.2	104.2	103.3	104.2	103.3	102.4	103.3	99.7
105°	86.4	88.1	86.4	84.6	84.6	85.5	86.4	87.3	87.3	88.1	87.3
107.5°	76.6	76.6	75.7	73.9	73.9	73.9	73.9	73.9	75.7	76.6	75.7
110°	65.9	64.1	64.1	63.2	62.3	62.3	63.2	62.3	63.2	65.0	65.9
112.5°	54.3	53.4	52.5	51.6	49.9	50.7	52.5	52.5	54.3	55.2	55.2
115°	41.8	42.7	43.6	41.0	40.1	40.1	40.1	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	39.2	39.2
120°	27.6	26.7	26.7	28.5	26.7	27.6	28.5	27.6	27.6	30.3	32.1
122.5°	22.3	23.1	23.1	22.3	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	22.3	22.3	21.4	21.4	22.3
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	13.4	13.4	14.2	13.4	14.2	14.2	12.5
132.5°	4.5	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	4.5	4.5	3.6	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



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CATALOG NUMBER: MPW-AF-D-U-ASYM-8030-800

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	317.8	317.8	317.8	317.8	317.8	317.8	317.8	317.8	317.8	317.8	317.8
2.5°	319.6	319.6	318.7	319.6	320.5	319.6	319.6	319.6	318.7	319.6	319.6
5°	322.3	322.3	323.2	322.3	323.2	323.2	323.2	322.3	321.4	321.4	319.6
7.5°	322.3	321.4	322.3	322.3	321.4	318.7	316.1	313.4	311.6	310.7	309.8
10°	338.3	335.6	332.1	327.6	323.2	318.7	315.2	310.7	306.3	304.5	300.9
12.5°	355.2	351.7	346.3	343.7	338.3	333.9	327.6	322.3	317.0	309.8	306.3
15°	368.6	365.9	361.5	356.1	348.1	341.0	333.9	327.6	322.3	317.8	313.4
17.5°	377.5	373.0	367.7	359.7	354.3	348.1	341.9	336.5	332.1	326.7	322.3
20°	381.9	376.6	371.3	366.8	361.5	355.2	350.8	344.6	339.2	332.1	327.6
22.5°	390.8	385.5	381.9	373.9	367.7	363.2	358.8	353.5	347.2	339.2	331.2
25°	403.3	397.1	390.0	383.7	379.3	373.9	366.8	357.0	349.9	342.8	337.4
27.5°	424.7	415.8	406.0	399.8	393.5	384.6	376.6	369.5	362.4	355.2	347.2
30°	442.5	428.2	418.4	410.4	398.9	391.7	383.7	375.7	367.7	361.5	356.1
32.5°	475.4	456.7	440.7	429.1	416.7	407.8	399.8	393.5	385.5	378.4	372.2
35°	505.7	484.3	464.7	446.9	435.4	426.5	416.7	407.8	399.8	392.6	387.3
37.5°	537.8	509.3	485.2	468.3	456.7	446.0	436.3	427.4	420.2	414.0	408.7
40°	577.8	540.4	512.8	494.1	479.9	468.3	457.6	447.8	441.6	435.4	430.9
42.5°	632.1	576.9	544.9	524.4	504.8	492.3	480.8	473.6	467.4	460.3	456.7
45°	668.6	610.8	565.4	539.5	523.5	512.8	505.7	497.7	495.9	488.8	482.6
46°	677.5	612.5	570.7	539.5	528.0	518.2	510.2	505.7	502.1	496.8	490.6
47°	676.6	610.8	568.0	539.5	528.8	521.7	515.5	514.6	507.5	502.1	499.5
48°	675.8	619.7	573.4	545.8	536.9	528.0	521.7	518.2	514.6	509.3	503.9
49°	674.0	616.1	574.3	551.1	543.1	533.3	526.2	521.7	517.3	512.8	508.4
50°	674.9	615.2	572.5	555.6	548.4	539.5	530.6	524.4	520.8	516.4	511.0
51°	670.4	609.0	568.0	554.7	549.3	537.8	529.7	525.3	522.6	518.2	513.7
52°	660.6	602.7	563.6	549.3	545.8	534.2	525.3	521.7	519.1	514.6	510.2
53°	634.8	577.8	541.3	531.5	527.1	519.1	516.4	514.6	512.8	510.2	504.8
54°	608.1	557.3	529.7	520.8	517.3	511.0	507.5	510.2	507.5	507.5	502.1
55°	585.8	538.6	516.4	508.4	504.8	499.5	495.9	496.8	496.8	495.9	490.6
56°	565.4	526.2	503.9	495.0	491.5	487.0	485.2	485.2	485.2	483.4	479.0
57°	538.6	505.7	491.5	485.2	481.7	477.2	477.2	476.3	474.5	471.9	470.1
58°	510.2	476.3	463.0	455.8	455.0	451.4	452.3	453.2	453.2	450.5	449.6
59°	481.7	452.3	438.9	434.5	430.9	430.9	431.8	432.7	433.6	433.6	430.9
60°	449.6	422.9	412.2	409.5	408.7	408.7	408.7	411.3	413.1	414.0	414.0
61°	425.6	401.5	390.8	388.2	388.2	388.2	389.1	391.7	392.6	393.5	392.6
62°	403.3	381.1	371.3	370.4	370.4	371.3	371.3	373.9	373.9	374.8	373.9
63°	381.9	362.4	355.2	352.6	354.3	354.3	353.5	356.1	358.8	357.9	356.1
64°	360.6	344.6	337.4	336.5	335.6	336.5	335.6	338.3	339.2	339.2	341.0
65°	349.9	334.8	326.7	325.0	326.7	325.9	328.5	329.4	330.3	331.2	330.3
66°	338.3	324.1	317.8	314.3	315.2	315.2	317.8	318.7	320.5	319.6	322.3
67°	328.5	313.4	307.2	305.4	305.4	305.4	306.3	308.9	309.8	311.6	311.6
68°	317.8	304.5	300.0	298.3	298.3	297.4	298.3	300.9	301.8	303.6	304.5
69°	308.9	296.5	292.0	289.4	291.1	289.4	290.2	294.7	293.8	295.6	300.9
70°	300.9	288.5	284.9	284.9	283.1	284.0	284.0	285.8	286.7	290.2	289.4
72.5°	285.8	275.1	269.8	270.7	270.7	270.7	271.5	273.3	274.2	276.9	278.7



REPORT NUMBER: P212606
 CATALOG NUMBER: MPW-AF-D-U-ASYM-8030-800

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°	
75°	264.4	255.5	252.9	252.9	252.9	254.6	254.6	255.5	260.0	261.8	261.8	0°
77.5°	249.3	240.4	237.7	237.7	239.5	240.4	242.2	243.9	245.7	249.3	250.2	2.5°
80°	228.8	221.7	220.8	221.7	223.5	225.3	227.0	231.5	233.3	234.2	239.5	5°
82.5°	211.0	203.9	203.9	205.7	208.3	210.1	213.7	215.5	217.2	219.9	221.7	7.5°
85°	190.5	185.2	187.0	188.7	193.2	194.1	195.9	199.4	202.1	203.0	205.7	10°
87.5°	172.7	170.1	170.9	173.6	176.3	180.7	182.5	184.3	187.9	189.6	189.6	12.5°
90°	158.5	155.8	158.5	162.0	164.7	166.5	169.2	170.9	173.6	174.5	175.4	15°
92.5°	146.9	145.1	147.8	151.4	154.0	154.9	156.7	161.1	162.0	163.8	163.8	17.5°
95°	136.2	135.3	138.0	140.7	143.3	146.0	147.8	150.5	153.1	154.0	154.0	20°
97.5°	121.1	120.2	122.9	128.2	129.1	130.0	131.8	133.5	137.1	138.0	137.1	22.5°
100°	113.1	112.2	113.1	116.6	117.5	121.1	122.0	124.6	125.5	127.3	126.4	25°
102.5°	97.9	98.8	100.6	100.6	104.2	104.2	106.8	108.6	109.5	112.2	115.7	27.5°
105°	87.3	87.3	88.1	88.1	89.9	90.8	90.8	93.5	95.3	95.3	96.2	30°
107.5°	76.6	76.6	77.5	78.3	79.2	79.2	80.1	81.9	81.9	83.7	83.7	32.5°
110°	65.9	67.7	66.8	66.8	66.8	68.6	69.4	69.4	70.3	71.2	71.2	35°
112.5°	56.1	56.1	56.1	57.0	57.9	57.9	58.8	58.8	59.7	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°	40.1	39.2	38.3	39.2	38.3	38.3	38.3	39.2	40.1	40.1	41.8	42.5°
120°	29.4	29.4	29.4	29.4	31.2	29.4	29.4	28.5	30.3	29.4	30.3	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	22.3	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	13.4	13.4	13.4	13.4	13.4	13.4	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	4.5	4.5	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: P212606
 NUMBER: MPW-AF-D-U-ASYM-8030-800

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

165°	170°	175°	180°
317.8	317.8	317.8	317.8
319.6	317.8	318.7	318.7
319.6	319.6	319.6	317.8
308.0	308.9	308.0	308.0
299.1	297.4	296.5	295.6
304.5	303.6	302.7	302.7
310.7	308.9	308.0	308.0
317.8	316.1	313.4	317.0
324.1	321.4	318.7	318.7
325.9	323.2	320.5	319.6
330.3	325.9	323.2	323.2
341.9	337.4	335.6	334.8
349.9	346.3	341.9	341.0
366.8	363.2	361.5	359.7
383.7	380.2	378.4	376.6
406.0	400.6	398.0	397.1
427.4	422.9	420.2	422.9
452.3	447.8	446.0	444.3
479.0	473.6	468.3	468.3
486.1	481.7	479.0	478.1
493.2	488.8	483.4	481.7
501.2	495.0	490.6	490.6
503.0	498.6	494.1	492.3
506.6	503.0	497.7	496.8
508.4	503.0	497.7	496.8
505.7	501.2	496.8	495.9
502.1	496.8	491.5	495.0
497.7	493.2	488.8	487.9
487.9	483.4	479.0	479.0
476.3	472.8	468.3	466.5
467.4	460.3	454.1	455.0
445.2	441.6	437.1	436.3
427.4	426.5	423.8	422.9
412.2	409.5	407.8	406.9
390.0	390.0	386.4	385.5
373.0	371.3	369.5	369.5
357.9	356.1	355.2	356.1
341.0	341.9	339.2	341.0
332.1	333.0	332.1	330.3
322.3	323.2	321.4	322.3
314.3	314.3	313.4	312.5
307.2	307.2	305.4	305.4
298.3	300.0	299.1	298.3
292.9	292.9	293.8	291.1
279.6	281.3	281.3	281.3

CANDELA DISTRIBUTION:

	165°
75°	263.5
77.5°	252.0
80°	237.7
82.5°	222.6
85°	206.6
87.5°	189.6
90°	177.2
92.5°	163.8
95°	155.8
97.5°	138.9
100°	128.2
102.5°	112.2
105°	96.2
107.5°	83.7
110°	71.2
112.5°	61.4
115°	48.1
117.5°	41.0
120°	31.2
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-8030-800

TION (continued):

<u>170°</u>	<u>175°</u>	<u>180°</u>
264.4	265.3	265.3
253.7	253.7	252.9
238.6	237.7	237.7
223.5	222.6	221.7
207.4	206.6	204.8
190.5	190.5	188.7
178.1	176.3	176.3
164.7	165.6	162.9
154.9	154.9	154.0
138.0	138.0	139.8
128.2	127.3	127.3
114.0	111.3	111.3
96.2	96.2	95.3
83.7	84.6	83.7
73.0	72.1	71.2
60.5	61.4	61.4
48.1	49.0	47.2
41.8	41.8	41.8
31.2	31.2	33.8
25.8	24.9	25.8
23.1	22.3	21.4
17.8	19.6	17.8
15.1	16.0	15.1
9.8	8.9	9.8
6.2	5.3	5.3
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)