

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: P314595

Luminaire Tested: **MPW-A3-D-U-ASYM-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314595
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1906-378-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: MPW-A3-D-U-ASYM-7027
Description: WOODBRIDGE POST TOP LUMINAIRE
(1) 70 CRI, 2700K LIGHT ENGINE. ASYMMETRIC DISTRIBUTION.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2986 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.58')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U3 - G3

Input Watts (W): 28.8
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



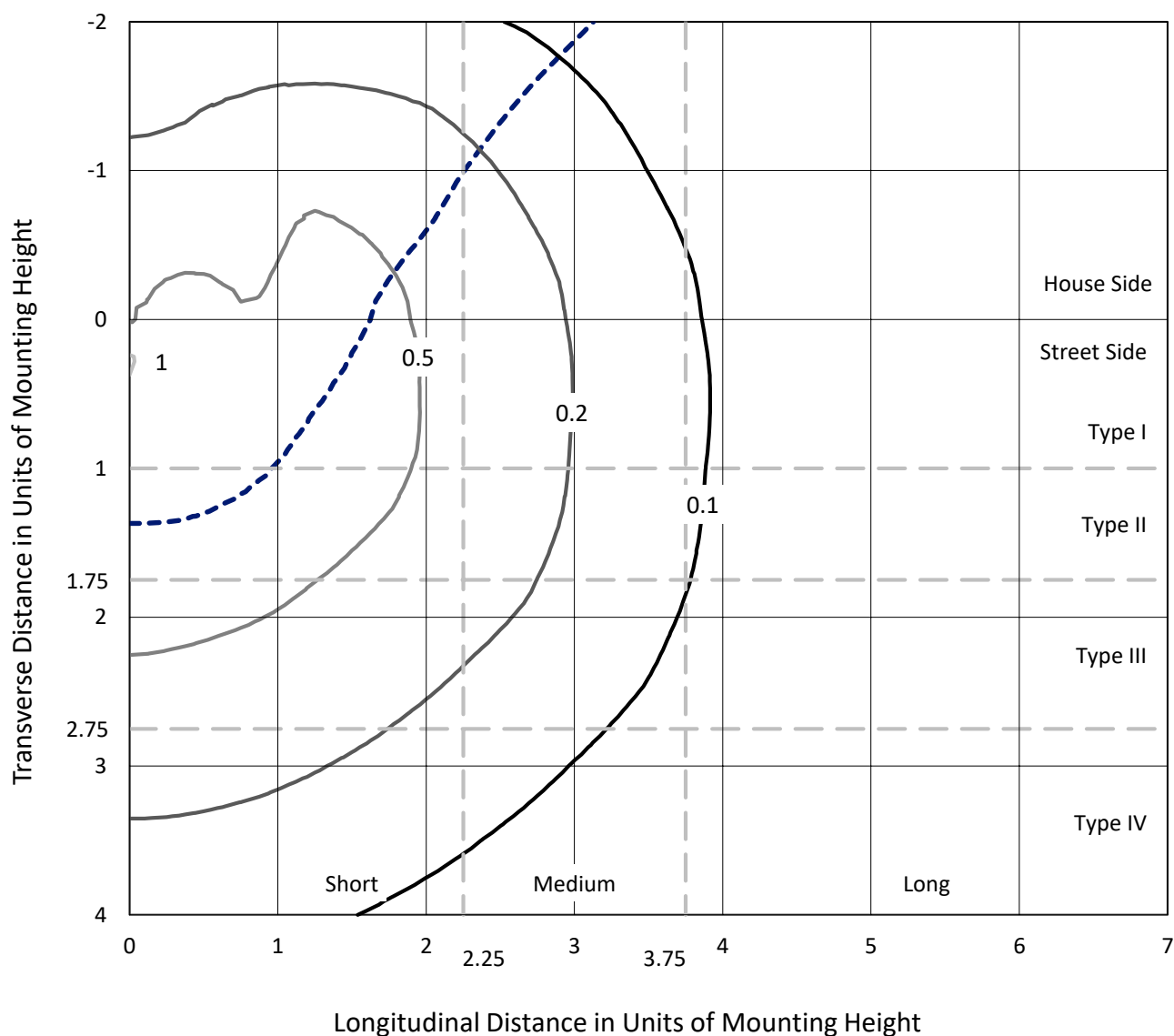
REPORT NUMBER: P314595

CATALOG NUMBER: MPW-A3-D-U-ASYM-7027

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

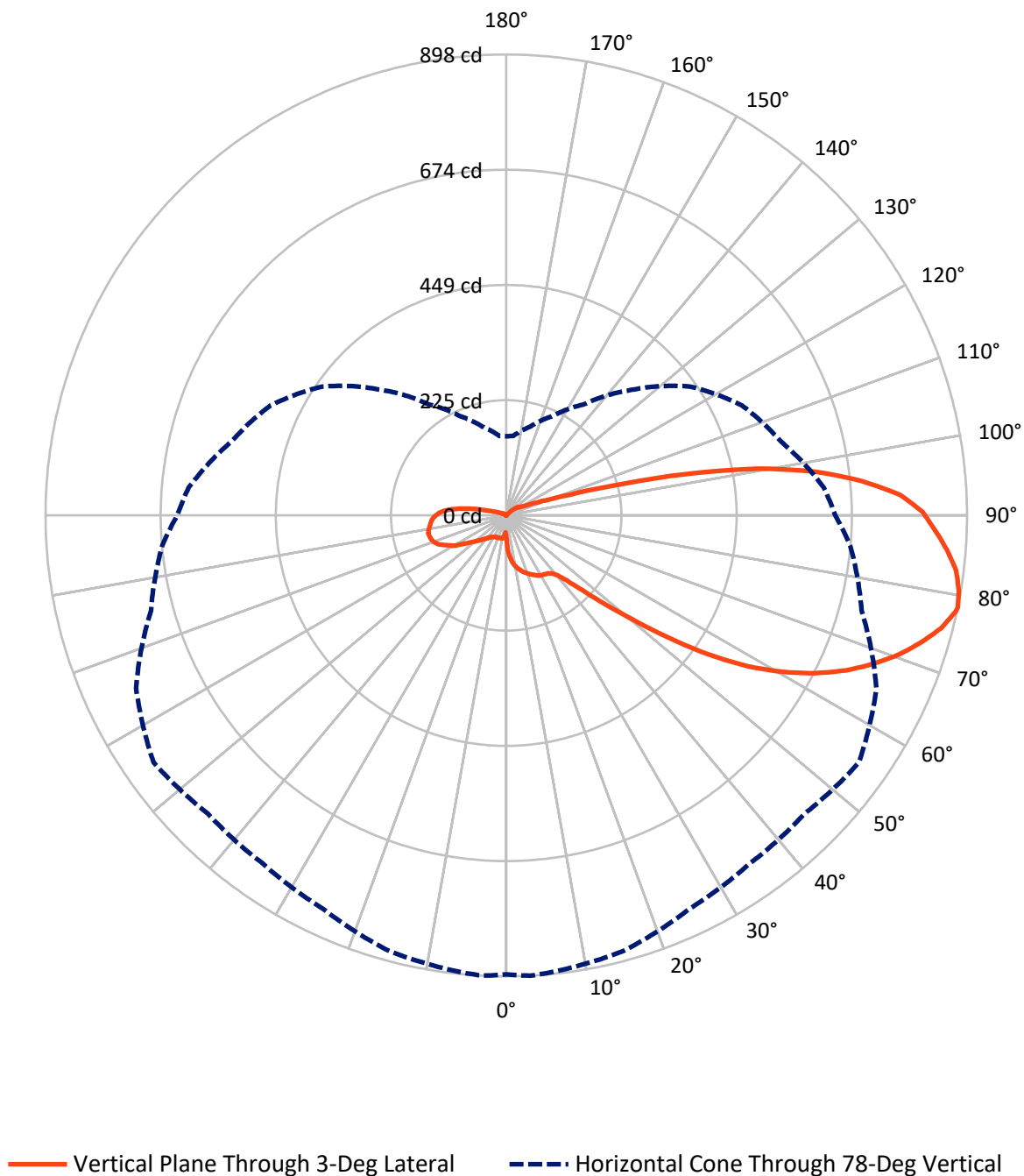


Based on 10 foot mounting height. Maximum calculated value = 1 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P314595

CATALOG NUMBER: MPW-A3-D-U-ASYM-7027

Luminous Intensity Polar Plot



REPORT NUMBER: P314595

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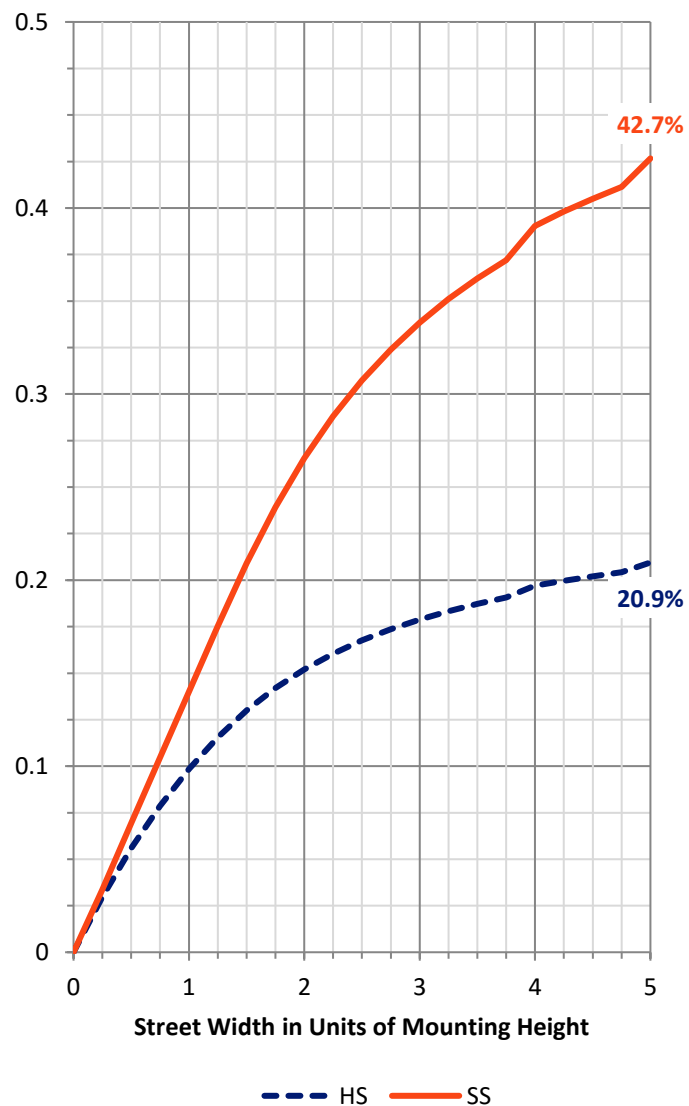
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	713.3	230.0	943.3
	% Fixture	23.9	7.7	31.6
Street Side	Lumens	1536.4	506.3	2042.8
	% Fixture	51.5	17.0	68.4
Total	Lumens	2249.7	736.3	2986.0
	% Fixture	75.3	24.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.1	0.2
10°-20°	22.7	0.8
20°-30°	42.6	1.4
30°-40°	63.4	2.1
40°-50°	123.9	4.2
50°-60°	296.2	9.9
60°-70°	474.9	15.9
70°-80°	602.4	20.2
80°-90°	617.5	20.7
90°-100°	499.4	16.7
100°-110°	181.0	6.1
110°-120°	36.7	1.2
120°-130°	16.2	0.5
130°-140°	3.0	0.1
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2249.7	75.3
0°-180°	2986.0	100.0

Coefficient of Utilization



REPORT NUMBER: P314595

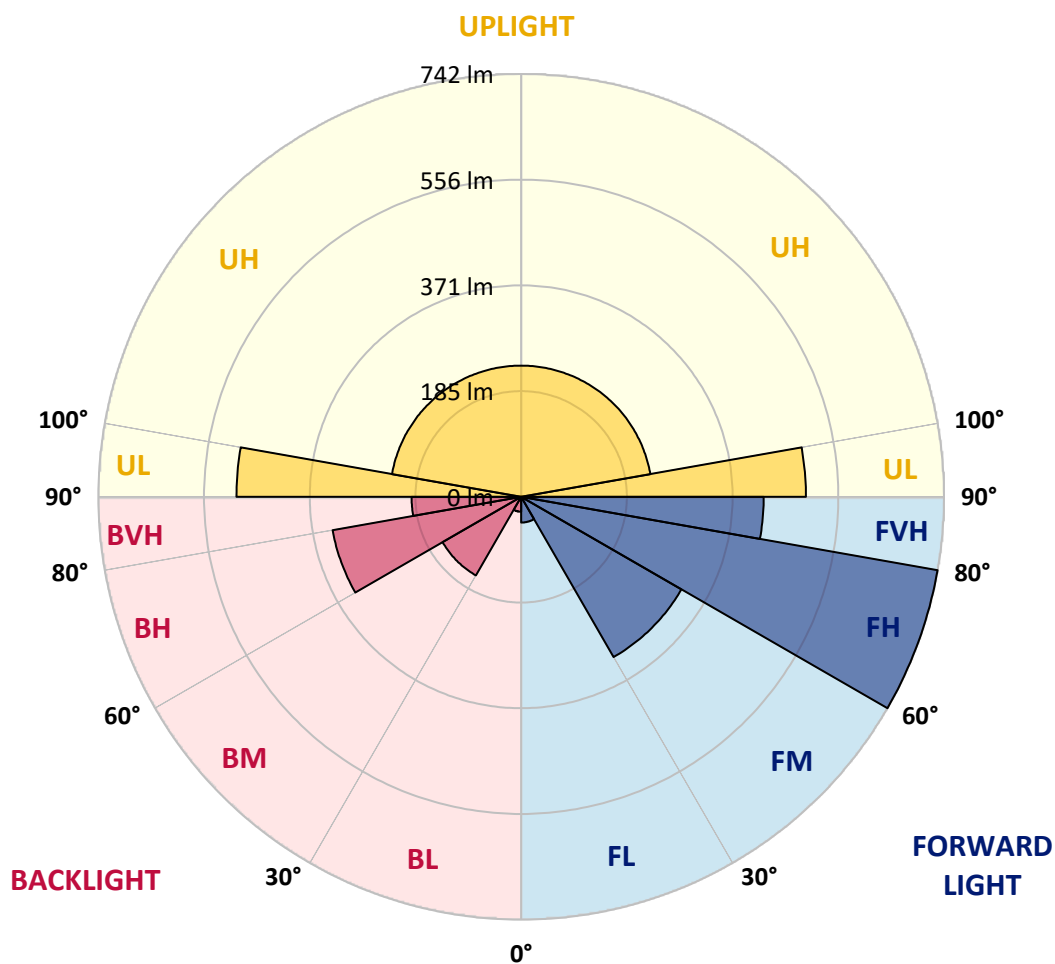
CATALOG NUMBER: MPW-A3-D-U-ASYM-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	45.2	1.5			
FM	(30°-60°)	324.5	10.9			
FH	(60°-80°)	741.5	24.8			G1/1800
FVH	(80°-90°)	425.2	14.2			G3/500
BL	(0°-30°)	26.2	0.9	B0/110		
BM	(30°-60°)	159.1	5.3	B0/220		
BH	(60°-80°)	335.7	11.2	B1/500		G1/500
BVH	(80°-90°)	192.2	6.4			G2/225
UL	(90°-100°)	499.4	16.7		U3/500	
UH	(100°-180°)	230.0	7.7		U3/500	

BUG Rating: B1-U3-G3

Type IV Short





REPORT NUMBER: P314595

CATALOG NUMBER: MPW-A3-D-U-ASYM-7027

CANDELA DISTRIBUTION (FULL):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5
2.5°	71.6	70.2	70.2	69.3	68.4	65.7	64.3	61.6	58.4	54.8	51.6
5°	84.3	83.4	83.4	82.9	82.5	80.2	77.9	74.3	69.8	65.2	59.8
7.5°	93.8	93.8	93.3	92.9	91.5	88.8	86.1	82.5	77.9	73.8	69.3
10°	101.5	101.5	101.5	100.1	98.3	96.0	92.4	88.3	83.4	78.8	73.8
12.5°	106.9	106.9	106.9	105.1	103.3	101.0	97.0	92.9	87.9	83.4	78.4
15°	112.8	112.4	112.8	109.6	107.8	105.6	101.5	97.9	92.9	88.8	83.8
17.5°	116.9	116.9	116.4	115.1	112.8	110.1	106.0	102.4	97.9	93.3	88.3
20°	121.0	121.0	120.5	119.1	117.3	114.6	111.0	106.5	102.4	97.9	92.4
22.5°	124.6	125.0	124.6	123.2	121.4	119.1	116.0	111.4	106.9	101.9	96.5
25°	128.7	128.7	129.1	127.8	125.5	123.2	120.1	116.0	111.4	106.0	99.7
27.5°	132.7	132.7	132.7	131.4	128.7	126.4	122.8	119.1	114.2	108.3	101.9
30°	135.0	135.5	135.0	134.1	131.4	128.7	125.0	121.0	116.0	109.6	103.3
32.5°	136.8	136.8	136.8	135.5	132.7	130.0	126.4	121.4	116.4	110.5	103.7
35°	139.1	139.1	138.6	137.3	135.0	132.3	128.2	123.7	118.2	112.4	105.1
37.5°	143.2	143.2	142.7	141.3	139.1	137.3	133.6	129.1	124.1	118.2	109.6
40°	153.6	153.1	152.7	152.2	150.4	150.4	147.7	143.6	137.7	132.3	121.4
42.5°	174.9	173.5	173.5	173.5	172.6	174.0	173.1	169.0	163.1	155.8	142.7
45°	210.2	207.5	207.5	206.6	208.4	208.9	208.9	204.8	197.5	188.5	172.6
47.5°	260.5	256.0	256.9	253.7	252.3	256.9	257.8	251.0	246.9	232.0	210.2
50°	323.5	317.6	320.3	315.3	309.9	315.8	318.5	314.4	308.5	289.0	264.1
52.5°	396.0	394.6	390.5	384.2	384.6	387.8	390.1	397.8	386.0	361.1	330.7
55°	479.8	478.4	477.1	463.5	463.9	463.9	468.0	475.7	465.7	429.0	399.1
57.5°	558.6	554.5	555.4	539.1	535.0	525.1	531.0	540.5	522.8	480.7	447.6
60°	622.0	618.9	616.6	602.5	595.7	582.2	580.3	592.1	572.2	521.9	484.8
62.5°	678.2	677.3	674.1	654.2	648.8	629.3	625.7	637.0	611.6	555.4	517.8
65°	731.7	728.0	718.5	702.2	695.0	671.9	671.4	684.1	656.5	594.4	551.8
67.5°	774.2	772.0	771.1	745.7	731.7	710.8	707.2	724.4	692.2	621.1	579.0
70°	812.3	812.3	809.6	789.2	767.9	749.3	744.3	764.7	728.0	658.3	614.3
72.5°	847.2	845.8	844.5	826.3	799.2	778.8	772.4	796.0	754.3	679.1	636.5
75°	872.6	876.2	873.0	856.7	826.8	805.5	800.1	822.3	779.2	704.5	660.5
77.5°	891.6	896.6	893.4	877.1	843.6	824.1	819.1	838.1	794.6	715.8	673.7
78°	894.8	898.4	895.7	879.4	845.8	828.2	822.3	839.5	796.4	717.2	673.2
80°	892.9	894.8	893.9	880.3	844.5	827.7	818.6	835.4	792.8	712.2	667.8
82.5°	882.5	883.9	883.9	872.1	830.4	819.1	811.4	830.0	786.5	708.6	673.2
85°	859.4	862.1	863.0	854.4	813.2	801.9	792.8	810.5	763.8	689.1	650.1
87.5°	837.2	836.8	836.8	830.0	791.0	782.4	774.2	790.6	747.5	674.6	640.1
90°	810.9	811.4	812.8	805.1	766.1	758.4	749.8	769.3	727.1	662.3	630.6
92.5°	767.5	768.8	768.4	762.0	726.2	719.9	712.2	729.4	690.4	626.6	597.1
95°	694.1	696.8	695.9	691.3	663.7	653.3	646.0	665.5	629.7	572.6	548.6
97.5°	606.6	610.2	609.8	604.8	582.2	578.1	569.5	589.0	559.1	510.6	490.2
100°	493.8	500.2	497.4	494.3	482.5	480.7	478.0	497.9	475.2	436.7	418.6
102.5°	348.8	355.2	352.5	352.0	347.0	353.8	353.4	372.9	357.4	328.0	313.1
105°	213.4	216.6	214.3	211.6	207.0	211.6	206.6	210.7	199.8	179.0	169.0
107.5°	127.3	129.6	128.2	125.5	122.3	122.8	119.6	120.1	113.7	103.3	97.9



REPORT NUMBER: P314595

CATALOG NUMBER: MPW-A3-D-U-ASYM-7027

CANDELA DISTRIBUTION (continued):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	85.6	86.5	86.1	83.4	81.5	82.0	80.6	80.6	78.4	72.9	69.3
112.5°	63.0	63.4	63.9	61.2	60.3	60.3	60.3	60.3	58.9	55.7	53.0
115°	48.5	48.9	48.9	47.1	46.2	46.7	46.7	47.1	46.7	44.4	42.6
117.5°	39.0	39.0	39.0	37.6	36.7	37.1	37.1	37.6	37.6	36.2	34.9
120°	32.6	33.1	33.1	32.2	31.3	31.3	31.3	31.3	31.7	30.8	29.4
122.5°	29.4	29.4	29.4	28.5	27.6	27.2	27.6	27.6	27.6	27.2	26.3
125°	26.7	26.7	26.7	25.8	24.9	24.5	24.9	24.9	25.4	24.9	24.0
127.5°	22.7	23.1	23.1	22.2	20.8	20.8	21.3	21.7	22.2	22.2	21.3
130°	16.8	17.2	17.2	16.8	15.4	15.4	16.3	16.8	17.7	17.7	16.8
132.5°	11.3	10.9	10.9	10.4	9.5	10.0	10.4	11.3	12.2	12.2	11.8
135°	1.8	1.4	1.4	1.4	1.4	1.4	2.3	2.3	3.2	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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	0.5	0.5	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.5	0.0	0.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0
170°	0.5	0.5	0.5	0.0	0.5	0.5	0.0	0.5	0.5	0.0	0.0
172.5°	0.0	0.5	0.0	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0
175°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0
177.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	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: P314595

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5
2.5°	50.3	48.9	45.8	43.5	40.3	38.5	36.2	34.4	33.5	33.1	33.1
5°	58.0	55.7	51.6	48.9	45.3	43.0	41.2	39.9	39.0	39.0	39.0
7.5°	67.1	63.9	58.9	54.4	51.2	48.9	47.1	45.3	43.9	43.5	43.0
10°	71.6	69.3	64.8	60.7	56.2	53.0	49.8	47.6	45.8	45.3	44.9
12.5°	75.7	72.9	68.0	63.9	58.9	54.8	51.2	48.0	45.8	44.9	44.4
15°	81.1	77.9	72.5	67.1	62.1	57.1	53.0	48.9	46.2	45.3	44.9
17.5°	85.6	82.5	76.6	71.1	65.2	59.8	54.8	50.3	47.1	46.2	45.8
20°	89.7	86.1	79.7	74.3	67.5	61.6	55.7	51.2	47.6	46.2	46.2
22.5°	93.3	89.7	83.4	77.0	69.8	63.0	57.1	51.6	48.0	46.7	46.2
25°	96.5	92.9	86.1	79.3	71.6	64.3	58.0	52.6	48.5	46.7	46.2
27.5°	98.8	95.1	88.3	81.1	73.4	65.7	59.3	53.5	49.4	47.1	47.1
30°	100.1	97.0	89.7	82.5	74.8	67.1	60.3	54.4	50.3	48.0	48.0
32.5°	100.6	97.4	90.6	83.4	76.1	68.4	61.6	55.7	51.6	49.4	49.4
35°	101.5	98.3	92.0	84.7	77.5	70.2	63.4	57.5	53.5	51.6	51.2
37.5°	105.6	102.4	95.1	87.4	79.7	72.5	65.7	59.8	55.7	53.9	53.9
40°	117.3	112.8	103.3	94.7	85.2	77.0	69.3	63.0	58.9	57.5	57.1
42.5°	136.4	131.8	120.1	107.8	96.0	85.6	75.2	67.5	63.0	61.2	61.2
45°	165.4	159.5	143.6	129.6	112.8	98.8	83.8	73.8	68.4	66.1	65.7
47.5°	203.0	195.7	176.7	155.4	135.0	116.9	96.0	82.0	74.8	71.6	71.1
50°	253.3	246.0	220.2	190.7	165.8	138.2	111.0	92.4	82.0	77.5	76.6
52.5°	317.1	309.4	275.4	237.4	205.2	167.2	128.7	103.7	90.6	84.7	83.8
55°	383.3	374.7	333.0	285.4	251.0	199.8	149.1	119.6	101.9	93.3	91.5
57.5°	429.9	420.4	374.2	321.2	288.1	225.2	169.4	135.0	115.1	103.3	102.4
60°	463.9	453.9	404.6	351.6	313.5	244.2	187.6	147.7	127.3	116.0	115.5
62.5°	494.3	486.1	431.7	378.7	333.4	260.0	203.9	163.1	139.1	125.9	122.3
65°	526.9	513.7	455.8	402.8	355.6	278.2	213.8	177.1	149.5	135.0	131.8
67.5°	554.5	540.5	485.7	431.7	376.9	292.7	227.0	189.8	162.2	144.1	143.2
70°	589.0	573.1	507.4	453.9	396.9	311.2	240.1	197.5	169.4	151.8	146.3
72.5°	608.9	592.1	529.2	476.6	411.4	326.6	249.2	201.2	174.4	155.4	150.0
75°	631.5	613.4	540.5	493.4	425.9	338.4	257.3	206.6	178.0	156.8	151.8
77.5°	641.5	622.5	558.1	505.1	438.5	345.7	263.2	211.6	178.5	156.8	155.4
78°	641.5	621.6	555.0	507.0	437.6	346.1	264.1	213.4	179.0	155.4	154.0
80°	637.4	617.5	550.0	506.0	434.5	345.2	265.0	216.6	177.1	153.6	154.5
82.5°	638.3	621.1	548.2	503.3	433.1	344.8	262.8	213.4	174.0	150.0	151.3
85°	614.8	598.5	533.2	490.2	420.9	340.2	259.6	209.3	172.2	147.2	148.6
87.5°	608.0	591.2	521.5	481.6	410.0	331.2	254.6	206.1	168.1	144.1	145.9
90°	595.3	579.0	507.4	467.1	398.2	319.4	242.8	196.6	161.7	138.2	139.1
92.5°	562.7	547.7	479.8	441.7	376.9	304.9	231.1	186.7	152.7	131.4	131.4
95°	521.0	507.9	444.0	410.5	349.3	280.4	212.5	171.7	139.5	120.5	119.6
97.5°	463.5	451.2	395.5	364.2	311.7	248.7	185.7	149.1	120.5	101.9	101.9
100°	389.2	384.2	333.0	305.3	259.1	203.4	152.7	119.6	97.4	81.5	80.2
102.5°	290.9	280.4	238.8	216.1	183.0	141.3	104.7	82.9	69.8	58.9	56.6
105°	151.8	154.0	128.2	117.8	101.0	81.5	63.4	51.6	43.9	38.5	36.7
107.5°	90.6	88.3	77.5	70.7	61.6	50.3	40.3	33.5	29.0	25.8	24.9



REPORT NUMBER: P314595

CATALOG NUMBER: MPW-A3-D-U-ASYM-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	64.8	63.9	55.7	50.3	43.9	35.8	28.5	24.0	20.8	18.6	18.1
112.5°	49.8	48.9	43.0	38.5	33.1	26.7	21.3	17.7	15.4	13.6	13.6
115°	40.3	39.4	34.9	30.4	25.8	20.8	16.8	13.6	11.8	10.4	10.4
117.5°	33.1	32.2	28.1	24.9	20.8	16.8	13.1	10.9	9.1	8.2	8.2
120°	28.1	27.2	24.0	20.8	17.2	14.0	10.9	8.6	7.7	6.8	6.8
122.5°	25.4	24.0	21.3	18.1	15.0	11.8	9.1	7.2	6.3	5.4	5.4
125°	23.1	22.2	19.5	16.3	12.7	10.4	7.7	5.9	5.0	4.5	4.1
127.5°	20.4	19.5	16.8	13.6	10.4	8.2	5.9	4.5	3.2	2.7	2.7
130°	16.3	15.0	12.7	10.0	7.2	5.4	4.1	2.7	1.8	1.8	1.4
132.5°	11.3	10.4	8.6	6.3	4.1	2.7	1.8	1.4	0.5	0.5	0.5
135°	3.6	3.2	1.8	1.8	0.5	0.5	0.0	0.0	0.0	0.0	0.0
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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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

(END OF REPORT)