

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: P314594

Luminaire Tested: **MPW-A2-D-U-ASYM-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314594
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-A2-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: 1895 lumens
Efficiency: N/A
Efficacy: 107.1 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): 17.7
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

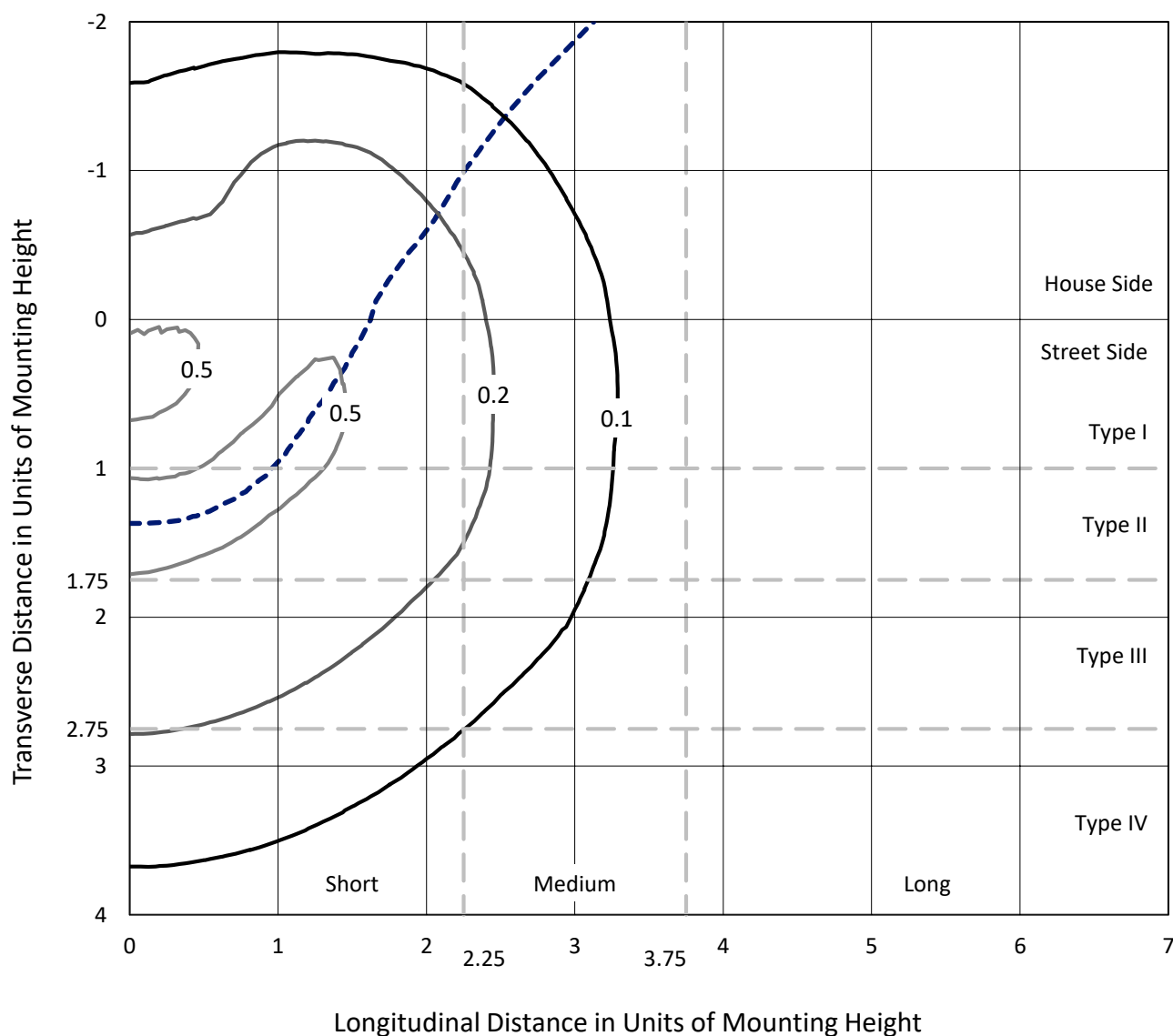


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

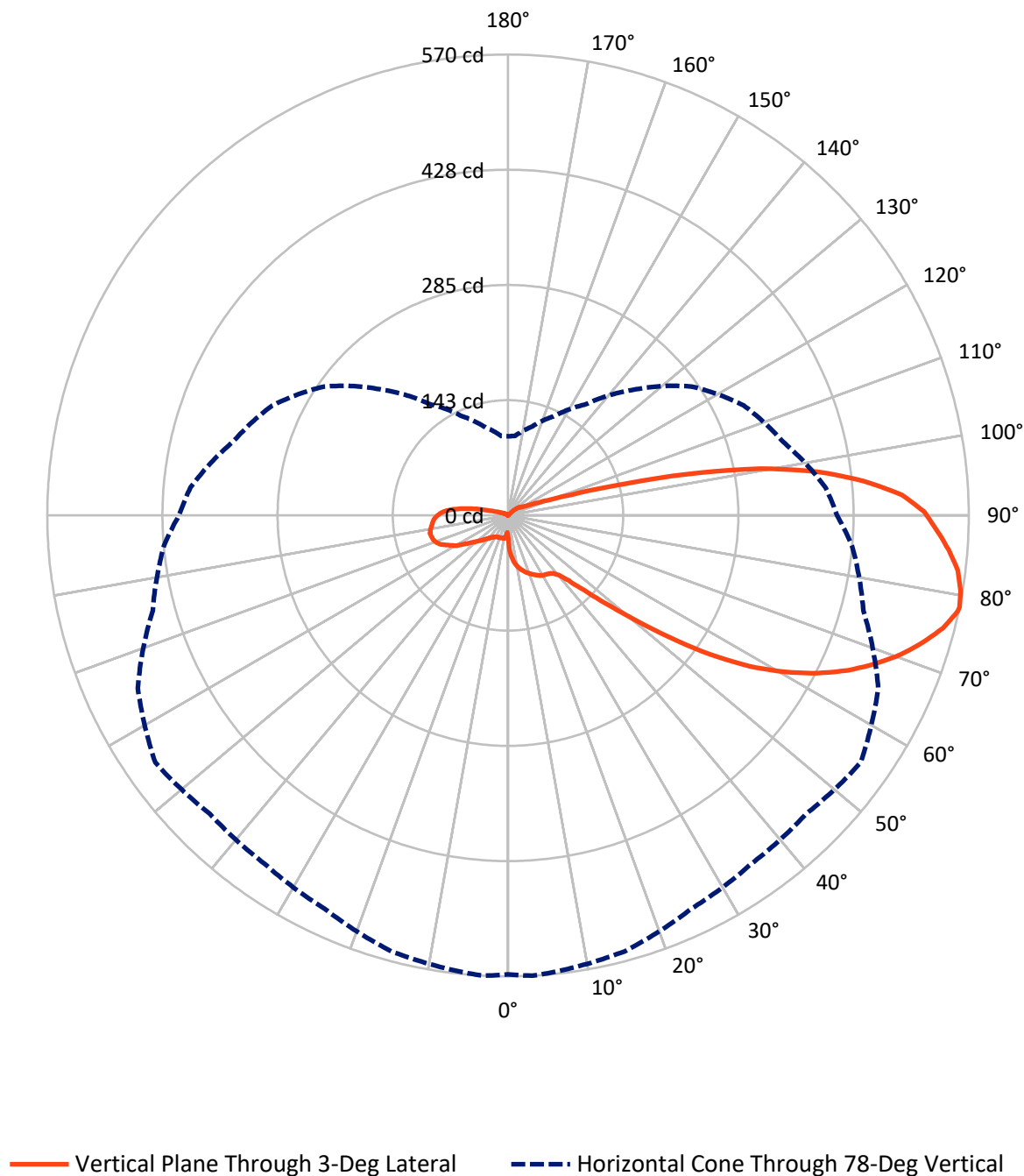


Based on 10 foot mounting height. Maximum calculated value = 0.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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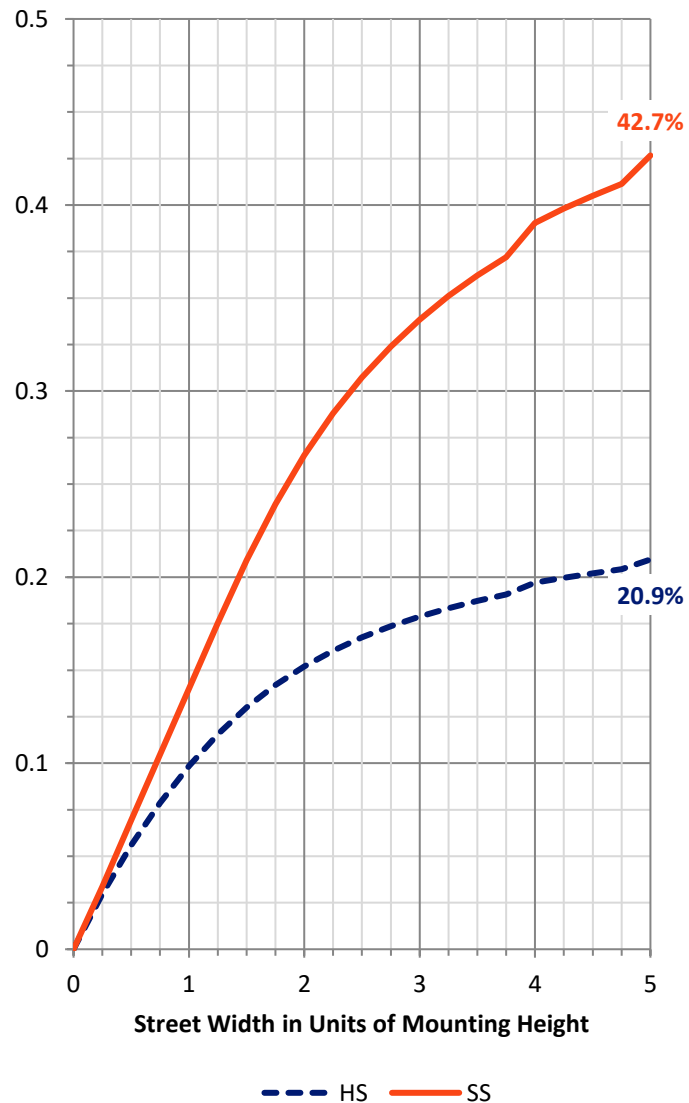
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	452.7	146.0	598.6
	% Fixture	23.9	7.7	31.6
Street Side	Lumens	975.0	321.3	1296.4
	% Fixture	51.5	17.0	68.4
Total	Lumens	1427.7	467.3	1895.0
	% Fixture	75.3	24.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.9	0.2
10°-20°	14.4	0.8
20°-30°	27.0	1.4
30°-40°	40.2	2.1
40°-50°	78.7	4.2
50°-60°	188.0	9.9
60°-70°	301.4	15.9
70°-80°	382.3	20.2
80°-90°	391.8	20.7
90°-100°	316.9	16.7
100°-110°	114.9	6.1
110°-120°	23.3	1.2
120°-130°	10.3	0.5
130°-140°	1.9	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°	1427.7	75.3
0°-180°	1895.0	100.0

Coefficient of Utilization



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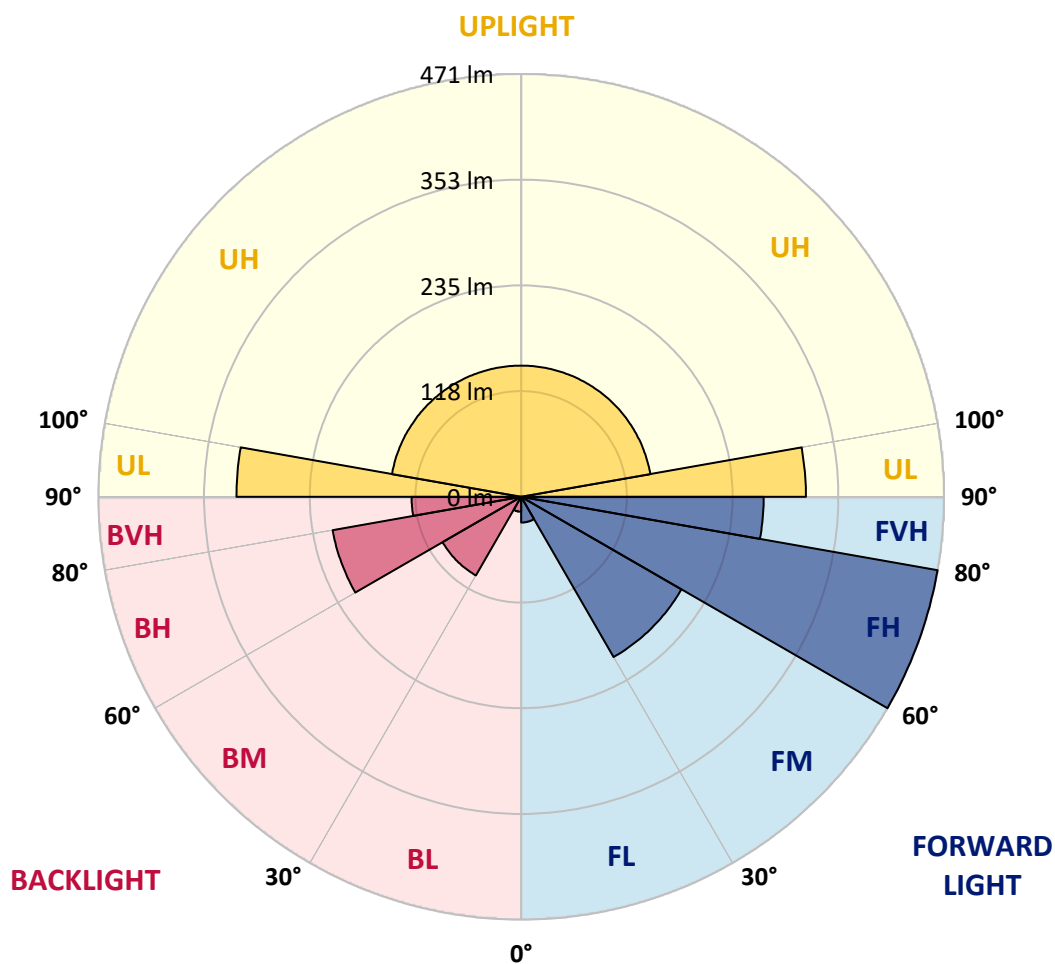
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	28.7	1.5			
FM	(30°-60°)	205.9	10.9			
FH	(60°-80°)	470.6	24.8			G0/660
FVH	(80°-90°)	269.9	14.2			G3/500
BL	(0°-30°)	16.6	0.9	B0/110		
BM	(30°-60°)	101.0	5.3	B0/220		
BH	(60°-80°)	213.1	11.2	B1/500		G1/500
BVH	(80°-90°)	122.0	6.4			G2/225
UL	(90°-100°)	316.9	16.7		U3/500	
UH	(100°-180°)	146.0	7.7		U3/500	

BUG Rating: B1-U3-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6
2.5°	45.4	44.6	44.6	44.0	43.4	41.7	40.8	39.1	37.1	34.8	32.8
5°	53.5	52.9	52.9	52.6	52.3	50.9	49.5	47.2	44.3	41.4	38.0
7.5°	59.5	59.5	59.2	58.9	58.1	56.4	54.6	52.3	49.5	46.9	44.0
10°	64.4	64.4	64.4	63.5	62.4	61.0	58.7	56.1	52.9	50.0	46.9
12.5°	67.9	67.9	67.9	66.7	65.6	64.1	61.5	58.9	55.8	52.9	49.7
15°	71.6	71.3	71.6	69.6	68.4	67.0	64.4	62.1	58.9	56.4	53.2
17.5°	74.2	74.2	73.9	73.0	71.6	69.9	67.3	65.0	62.1	59.2	56.1
20°	76.8	76.8	76.5	75.6	74.5	72.7	70.4	67.6	65.0	62.1	58.7
22.5°	79.1	79.4	79.1	78.2	77.1	75.6	73.6	70.7	67.9	64.7	61.2
25°	81.7	81.7	81.9	81.1	79.6	78.2	76.2	73.6	70.7	67.3	63.3
27.5°	84.2	84.2	84.2	83.4	81.7	80.2	77.9	75.6	72.5	68.7	64.7
30°	85.7	86.0	85.7	85.1	83.4	81.7	79.4	76.8	73.6	69.6	65.6
32.5°	86.8	86.8	86.8	86.0	84.2	82.5	80.2	77.1	73.9	70.2	65.8
35°	88.3	88.3	88.0	87.1	85.7	84.0	81.4	78.5	75.0	71.3	66.7
37.5°	90.9	90.9	90.6	89.7	88.3	87.1	84.8	81.9	78.8	75.0	69.6
40°	97.5	97.2	96.9	96.6	95.5	95.5	93.7	91.1	87.4	84.0	77.1
42.5°	111.0	110.1	110.1	110.1	109.5	110.4	109.8	107.2	103.5	98.9	90.6
45°	133.4	131.7	131.7	131.1	132.3	132.5	132.5	130.0	125.4	119.6	109.5
47.5°	165.3	162.4	163.0	161.0	160.1	163.0	163.6	159.3	156.7	147.2	133.4
50°	205.3	201.5	203.3	200.1	196.7	200.4	202.1	199.5	195.8	183.4	167.6
52.5°	251.3	250.4	247.8	243.8	244.1	246.1	247.5	252.4	245.0	229.1	209.9
55°	304.5	303.6	302.8	294.1	294.4	294.4	297.0	301.9	295.6	272.3	253.3
57.5°	354.5	351.9	352.5	342.1	339.6	333.2	337.0	343.0	331.8	305.1	284.1
60°	394.8	392.7	391.3	382.4	378.1	369.5	368.3	375.8	363.1	331.2	307.6
62.5°	430.4	429.8	427.8	415.2	411.7	399.4	397.1	404.2	388.1	352.5	328.6
65°	464.3	462.0	456.0	445.6	441.0	426.4	426.1	434.1	416.6	377.2	350.2
67.5°	491.4	489.9	489.3	473.2	464.3	451.1	448.8	459.7	439.3	394.2	367.4
70°	515.5	515.5	513.8	500.8	487.3	475.5	472.4	485.3	462.0	417.8	389.9
72.5°	537.6	536.8	535.9	524.4	507.2	494.2	490.2	505.2	478.7	431.0	404.0
75°	553.7	556.0	554.0	543.7	524.7	511.2	507.7	521.8	494.5	447.1	419.2
77.5°	565.8	569.0	567.0	556.6	535.3	523.0	519.8	531.9	504.3	454.3	427.5
78°	567.8	570.1	568.4	558.1	536.8	525.6	521.8	532.8	505.4	455.1	427.2
80°	566.7	567.8	567.3	558.6	535.9	525.3	519.5	530.2	503.1	452.0	423.8
82.5°	560.1	560.9	560.9	553.5	527.0	519.8	514.9	526.7	499.1	449.7	427.2
85°	545.4	547.1	547.7	542.2	516.1	508.9	503.1	514.4	484.7	437.3	412.6
87.5°	531.3	531.0	531.0	526.7	502.0	496.5	491.4	501.7	474.4	428.1	406.3
90°	514.6	514.9	515.8	510.9	486.2	481.3	475.8	488.2	461.5	420.3	400.2
92.5°	487.0	487.9	487.6	483.6	460.9	456.9	452.0	462.9	438.2	397.6	378.9
95°	440.5	442.2	441.6	438.7	421.2	414.6	410.0	422.4	399.6	363.4	348.2
97.5°	385.0	387.3	387.0	383.8	369.5	366.9	361.4	373.8	354.8	324.0	311.1
100°	313.4	317.4	315.7	313.7	306.2	305.1	303.3	316.0	301.6	277.2	265.7
102.5°	221.4	225.4	223.7	223.4	220.2	224.5	224.3	236.6	226.8	208.2	198.7
105°	135.4	137.4	136.0	134.3	131.4	134.3	131.1	133.7	126.8	113.6	107.2
107.5°	80.8	82.2	81.4	79.6	77.6	77.9	75.9	76.2	72.2	65.6	62.1



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CATALOG NUMBER: MPW-A2-D-U-ASYM-7027

CANDELA DISTRIBUTION (continued):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	54.3	54.9	54.6	52.9	51.8	52.0	51.2	51.2	49.7	46.3	44.0
112.5°	40.0	40.3	40.5	38.8	38.2	38.2	38.2	38.2	37.4	35.4	33.6
115°	30.8	31.1	31.1	29.9	29.3	29.6	29.6	29.9	29.6	28.2	27.0
117.5°	24.7	24.7	24.7	23.9	23.3	23.6	23.6	23.9	23.9	23.0	22.1
120°	20.7	21.0	21.0	20.4	19.8	19.8	19.8	19.8	20.1	19.6	18.7
122.5°	18.7	18.7	18.7	18.1	17.5	17.3	17.5	17.5	17.5	17.3	16.7
125°	17.0	17.0	17.0	16.4	15.8	15.5	15.8	15.8	16.1	15.8	15.2
127.5°	14.4	14.7	14.7	14.1	13.2	13.2	13.5	13.8	14.1	14.1	13.5
130°	10.6	10.9	10.9	10.6	9.8	9.8	10.4	10.6	11.2	11.2	10.6
132.5°	7.2	6.9	6.9	6.6	6.0	6.3	6.6	7.2	7.8	7.8	7.5
135°	1.2	0.9	0.9	0.9	0.9	0.9	1.4	1.4	2.0	2.3	2.3
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°	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	0.3	0.3	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.3	0.0	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.0
170°	0.3	0.3	0.3	0.0	0.3	0.3	0.0	0.3	0.3	0.0	0.0
172.5°	0.0	0.3	0.0	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0
175°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0
177.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6
2.5°	31.9	31.1	29.0	27.6	25.6	24.4	23.0	21.9	21.3	21.0	21.0
5°	36.8	35.4	32.8	31.1	28.8	27.3	26.2	25.3	24.7	24.7	24.7
7.5°	42.6	40.5	37.4	34.5	32.5	31.1	29.9	28.8	27.9	27.6	27.3
10°	45.4	44.0	41.1	38.5	35.7	33.6	31.6	30.2	29.0	28.8	28.5
12.5°	48.0	46.3	43.1	40.5	37.4	34.8	32.5	30.5	29.0	28.5	28.2
15°	51.5	49.5	46.0	42.6	39.4	36.2	33.6	31.1	29.3	28.8	28.5
17.5°	54.3	52.3	48.6	45.1	41.4	38.0	34.8	31.9	29.9	29.3	29.0
20°	56.9	54.6	50.6	47.2	42.8	39.1	35.4	32.5	30.2	29.3	29.3
22.5°	59.2	56.9	52.9	48.9	44.3	40.0	36.2	32.8	30.5	29.6	29.3
25°	61.2	58.9	54.6	50.3	45.4	40.8	36.8	33.4	30.8	29.6	29.3
27.5°	62.7	60.4	56.1	51.5	46.6	41.7	37.7	33.9	31.3	29.9	29.9
30°	63.5	61.5	56.9	52.3	47.4	42.6	38.2	34.5	31.9	30.5	30.5
32.5°	63.8	61.8	57.5	52.9	48.3	43.4	39.1	35.4	32.8	31.3	31.3
35°	64.4	62.4	58.4	53.8	49.2	44.6	40.3	36.5	33.9	32.8	32.5
37.5°	67.0	65.0	60.4	55.5	50.6	46.0	41.7	38.0	35.4	34.2	34.2
40°	74.5	71.6	65.6	60.1	54.1	48.9	44.0	40.0	37.4	36.5	36.2
42.5°	86.5	83.7	76.2	68.4	61.0	54.3	47.7	42.8	40.0	38.8	38.8
45°	104.9	101.2	91.1	82.2	71.6	62.7	53.2	46.9	43.4	42.0	41.7
47.5°	128.8	124.2	112.1	98.6	85.7	74.2	61.0	52.0	47.4	45.4	45.1
50°	160.7	156.1	139.7	121.0	105.2	87.7	70.4	58.7	52.0	49.2	48.6
52.5°	201.3	196.4	174.8	150.7	130.2	106.1	81.7	65.8	57.5	53.8	53.2
55°	243.2	237.8	211.3	181.1	159.3	126.8	94.6	75.9	64.7	59.2	58.1
57.5°	272.8	266.8	237.5	203.8	182.9	142.9	107.5	85.7	73.0	65.6	65.0
60°	294.4	288.1	256.7	223.1	199.0	155.0	119.0	93.7	80.8	73.6	73.3
62.5°	313.7	308.5	274.0	240.4	211.6	165.0	129.4	103.5	88.3	79.9	77.6
65°	334.4	326.0	289.2	255.6	225.7	176.5	135.7	112.4	94.9	85.7	83.7
67.5°	351.9	343.0	308.2	274.0	239.2	185.7	144.0	120.5	102.9	91.4	90.9
70°	373.8	363.7	322.0	288.1	251.9	197.5	152.4	125.4	107.5	96.3	92.9
72.5°	386.4	375.8	335.8	302.5	261.1	207.3	158.1	127.7	110.7	98.6	95.2
75°	400.8	389.3	343.0	313.1	270.3	214.8	163.3	131.1	113.0	99.5	96.3
77.5°	407.1	395.0	354.2	320.6	278.3	219.4	167.0	134.3	113.3	99.5	98.6
78°	407.1	394.5	352.2	321.7	277.7	219.7	167.6	135.4	113.6	98.6	97.8
80°	404.5	391.9	349.0	321.2	275.7	219.1	168.2	137.4	112.4	97.5	98.0
82.5°	405.1	394.2	347.9	319.4	274.9	218.8	166.8	135.4	110.4	95.2	96.0
85°	390.2	379.8	338.4	311.1	267.1	215.9	164.7	132.8	109.3	93.4	94.3
87.5°	385.8	375.2	330.9	305.6	260.2	210.2	161.6	130.8	106.7	91.4	92.6
90°	377.8	367.4	322.0	296.4	252.7	202.7	154.1	124.8	102.6	87.7	88.3
92.5°	357.1	347.6	304.5	280.3	239.2	193.5	146.6	118.5	96.9	83.4	83.4
95°	330.6	322.3	281.8	260.5	221.7	178.0	134.8	109.0	88.6	76.5	75.9
97.5°	294.1	286.4	251.0	231.2	197.8	157.8	117.9	94.6	76.5	64.7	64.7
100°	247.0	243.8	211.3	193.8	164.5	129.1	96.9	75.9	61.8	51.8	50.9
102.5°	184.6	178.0	151.5	137.1	116.2	89.7	66.4	52.6	44.3	37.4	35.9
105°	96.3	97.8	81.4	74.8	64.1	51.8	40.3	32.8	27.9	24.4	23.3
107.5°	57.5	56.1	49.2	44.9	39.1	31.9	25.6	21.3	18.4	16.4	15.8



REPORT NUMBER: P314594

CATALOG NUMBER: MPW-A2-D-U-ASYM-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	41.1	40.5	35.4	31.9	27.9	22.7	18.1	15.2	13.2	11.8	11.5
112.5°	31.6	31.1	27.3	24.4	21.0	17.0	13.5	11.2	9.8	8.6	8.6
115°	25.6	25.0	22.1	19.3	16.4	13.2	10.6	8.6	7.5	6.6	6.6
117.5°	21.0	20.4	17.8	15.8	13.2	10.6	8.3	6.9	5.8	5.2	5.2
120°	17.8	17.3	15.2	13.2	10.9	8.9	6.9	5.5	4.9	4.3	4.3
122.5°	16.1	15.2	13.5	11.5	9.5	7.5	5.8	4.6	4.0	3.5	3.5
125°	14.7	14.1	12.4	10.4	8.1	6.6	4.9	3.7	3.2	2.9	2.6
127.5°	12.9	12.4	10.6	8.6	6.6	5.2	3.7	2.9	2.0	1.7	1.7
130°	10.4	9.5	8.1	6.3	4.6	3.5	2.6	1.7	1.2	1.2	0.9
132.5°	7.2	6.6	5.5	4.0	2.6	1.7	1.2	0.9	0.3	0.3	0.3
135°	2.3	2.0	1.2	1.2	0.3	0.3	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)