

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: P314588

Luminaire Tested: **MPW-A2-D-U-SYM**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314588
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1906-378-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: MPW-A2-D-U-SYM
Description: WOODBRIDGE POST TOP LUMINAIRE
(1) 70 CRI, 4000K LIGHT ENGINE. SYMMETRIC DISTRIBUTION.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2057 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.58')
IES Classification: Type I - Short - Non-Cutoff
BUG Rating: B1 - U3 - G3

Input Watts (W): 17.6
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

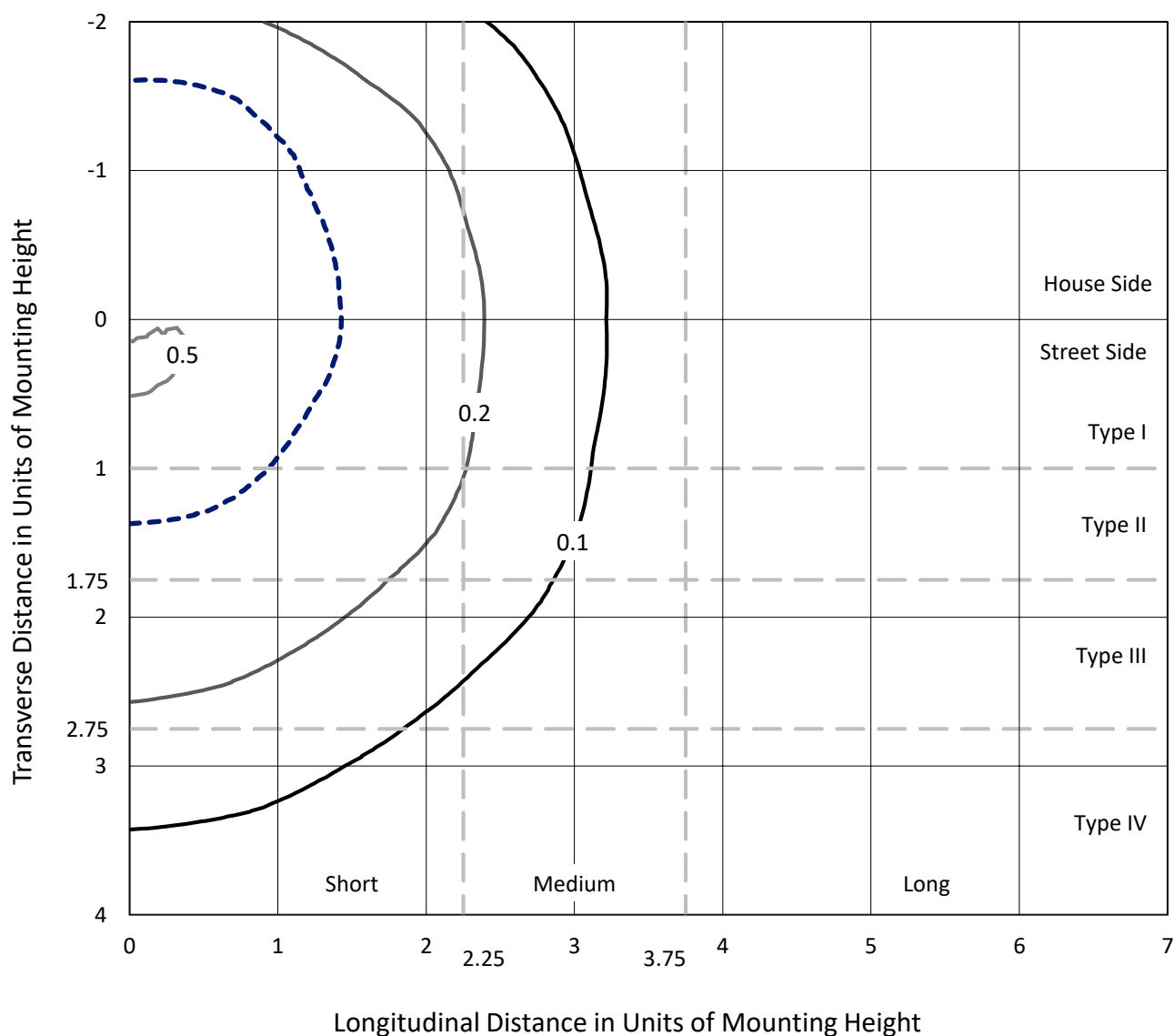


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

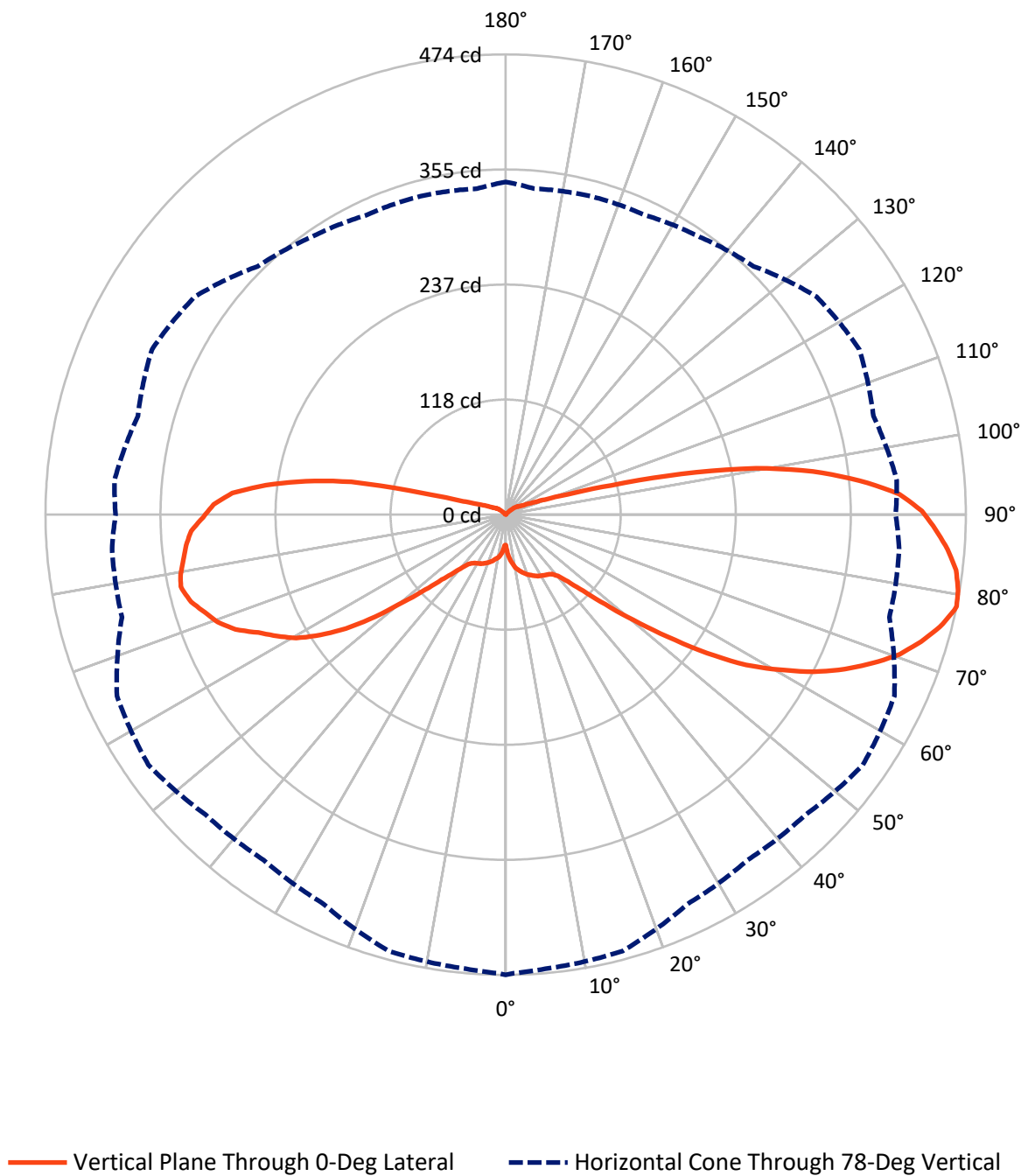


Based on 10 foot mounting height. Maximum calculated value = 0.5 fc
 Type I - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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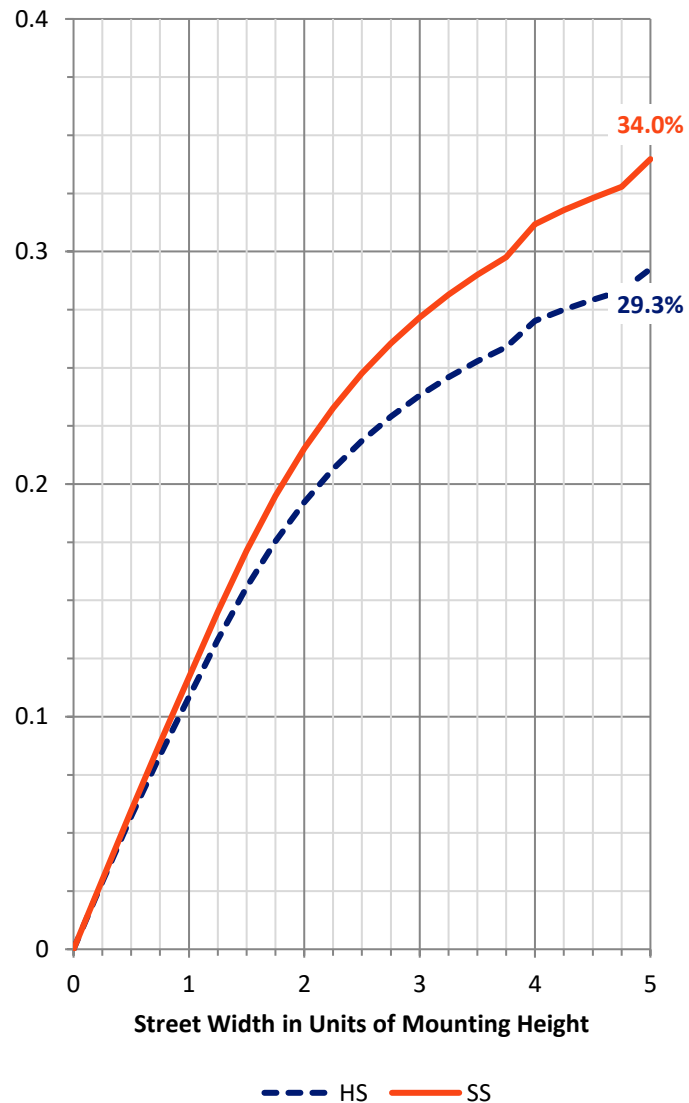
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	710.0	236.5	946.5
	% Fixture	34.5	11.5	46.0
Street Side	Lumens	838.0	272.5	1110.5
	% Fixture	40.7	13.2	54.0
Total	Lumens	1548.0	509.0	2057.0
	% Fixture	75.3	24.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.2	0.2
10°-20°	15.6	0.8
20°-30°	29.2	1.4
30°-40°	43.7	2.1
40°-50°	85.7	4.2
50°-60°	205.1	10.0
60°-70°	326.6	15.9
70°-80°	414.0	20.1
80°-90°	423.8	20.6
90°-100°	345.2	16.8
100°-110°	124.7	6.1
110°-120°	25.4	1.2
120°-130°	11.4	0.6
130°-140°	2.3	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°	1548.0	75.3
0°-180°	2057.0	100.0

Coefficient of Utilization



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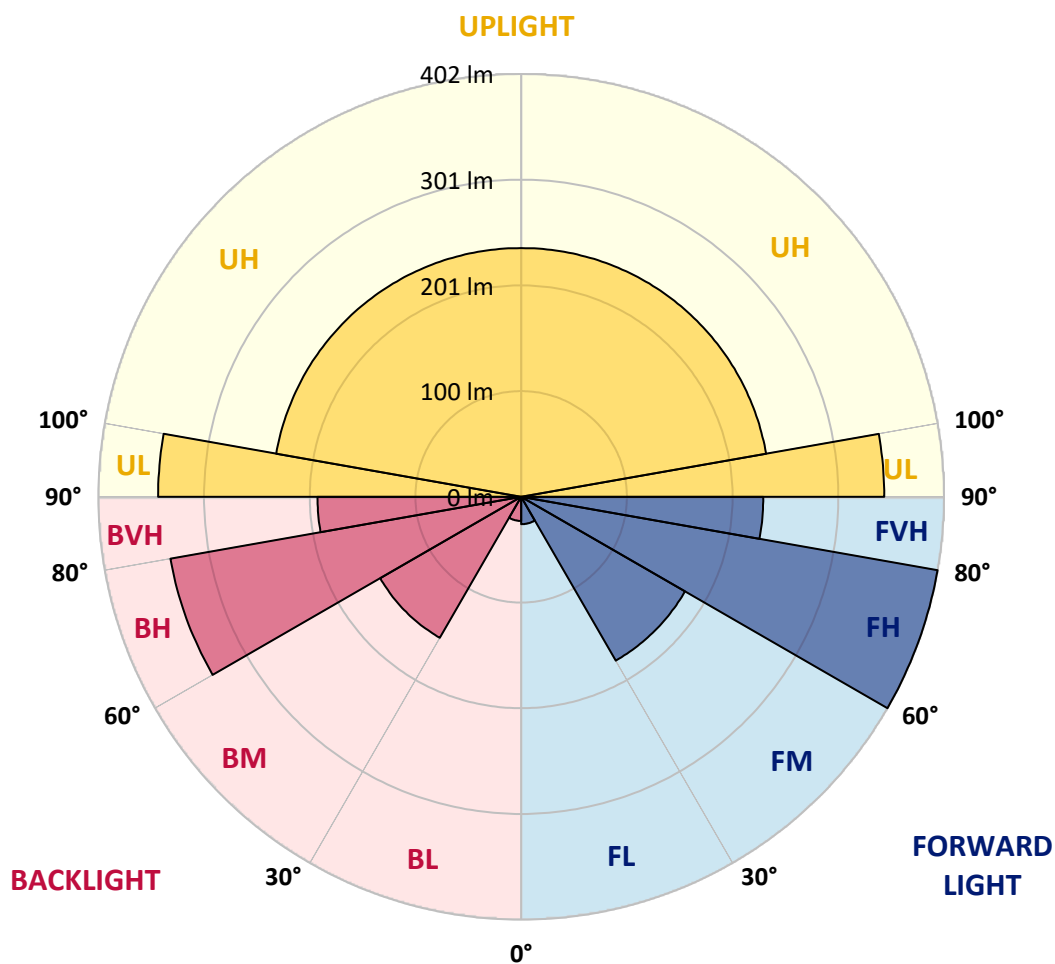
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	26.0	1.3			
FM	(30°-60°)	179.8	8.7			
FH	(60°-80°)	402.0	19.5			G0/660
FVH	(80°-90°)	230.1	11.2			G3/500
BL	(0°-30°)	22.9	1.1	B0/110		
BM	(30°-60°)	154.8	7.5	B0/220		
BH	(60°-80°)	338.6	16.5	B1/500		G1/500
BVH	(80°-90°)	193.7	9.4			G2/225
UL	(90°-100°)	345.2	16.8		U3/500	
UH	(100°-180°)	236.5	11.5		U3/500	

BUG Rating: B1-U3-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3
2.5°	40.0	39.7	39.4	38.8	39.1	38.8	38.2	37.3	36.4	35.5	34.9
5°	46.2	45.9	45.9	45.9	45.9	45.9	45.6	44.7	43.5	42.4	40.9
7.5°	51.0	50.7	50.7	51.0	51.0	50.7	50.1	49.5	48.6	48.0	46.8
10°	55.5	55.2	55.2	55.2	54.9	54.3	53.7	52.8	51.6	51.0	50.1
12.5°	58.5	58.2	58.2	57.9	57.6	57.0	55.8	54.6	54.0	53.1	52.2
15°	61.1	60.9	60.9	60.3	60.0	59.4	58.2	57.3	56.4	55.8	55.2
17.5°	63.5	63.5	63.2	62.6	62.3	61.7	60.9	59.7	58.8	58.2	57.3
20°	65.9	65.6	65.6	65.0	64.4	63.8	62.9	62.0	61.4	60.6	59.7
22.5°	67.7	67.7	67.4	67.1	66.5	66.2	65.0	64.4	63.5	62.9	62.0
25°	69.8	69.8	69.8	69.2	68.6	68.3	67.1	66.5	65.9	65.0	63.8
27.5°	71.6	71.3	71.6	71.0	70.1	69.8	68.6	67.7	67.1	66.5	65.3
30°	72.8	72.8	72.5	72.2	71.3	70.7	69.8	68.9	68.3	67.4	66.5
32.5°	74.3	73.7	74.3	73.1	72.5	71.6	70.7	69.5	68.9	68.0	67.1
35°	75.5	75.2	75.2	74.9	73.7	73.1	71.9	71.0	70.1	69.2	68.3
37.5°	77.6	77.6	77.6	77.0	76.4	76.7	75.8	74.6	73.7	72.5	71.0
40°	82.9	82.9	82.9	82.9	82.6	83.5	83.2	82.9	82.6	80.8	78.4
42.5°	94.0	94.3	94.0	94.0	94.3	96.0	96.3	96.9	96.0	93.4	90.1
45°	111.9	112.5	111.9	112.8	113.3	115.7	115.4	116.0	114.8	112.5	107.1
47.5°	137.8	138.7	139.0	137.2	137.5	139.9	141.4	142.0	140.8	135.4	130.6
50°	170.3	171.2	171.2	169.7	168.2	171.2	173.3	174.5	175.1	166.1	160.8
52.5°	208.5	209.7	209.4	207.6	204.6	210.9	212.7	218.3	216.9	203.4	197.5
55°	251.8	252.9	252.6	249.1	244.3	247.0	252.3	258.9	257.1	240.7	236.5
57.5°	292.0	292.6	292.6	288.1	282.5	280.7	284.3	292.0	289.0	269.9	266.4
60°	324.2	324.8	325.1	318.3	311.4	307.5	310.5	319.2	316.2	294.1	290.5
62.5°	356.2	353.8	351.4	345.7	336.2	331.7	332.3	343.6	337.7	313.5	310.8
65°	383.6	382.7	377.0	371.1	360.6	355.6	355.6	367.5	361.5	335.9	332.3
67.5°	407.8	407.8	401.2	395.5	381.5	375.5	374.3	388.7	381.2	355.0	350.5
70°	430.4	429.8	422.4	418.5	401.2	392.5	394.0	408.7	402.1	374.3	371.1
72.5°	447.1	447.1	441.8	438.2	417.0	408.9	409.5	425.1	417.6	388.4	383.9
75°	461.7	460.6	457.6	454.3	432.2	423.0	424.5	439.7	431.9	402.4	400.6
77.5°	472.2	471.3	468.6	465.0	440.9	432.5	434.9	448.6	441.8	408.1	405.7
78°	473.7	472.2	469.2	465.0	442.4	434.0	436.7	448.9	441.5	408.9	406.6
80°	472.2	471.0	467.7	463.2	443.3	433.4	434.9	445.6	437.9	407.5	404.2
82.5°	467.1	466.2	463.2	457.9	437.9	429.5	431.0	441.2	434.3	402.7	404.2
85°	456.4	454.3	451.9	446.5	429.2	419.7	420.9	430.7	423.0	391.9	391.1
87.5°	443.0	441.5	439.7	434.3	418.2	409.8	410.1	420.0	412.5	383.6	383.6
90°	428.6	426.8	425.4	420.3	404.5	396.4	396.7	407.8	401.8	375.2	376.7
92.5°	405.7	404.2	402.7	397.0	382.7	374.9	376.1	386.9	380.9	355.0	356.7
95°	366.0	364.8	365.1	360.9	348.1	340.9	341.2	352.0	346.3	323.6	328.4
97.5°	319.5	318.9	317.1	315.6	304.3	299.8	298.6	310.2	307.5	287.8	292.9
100°	261.9	260.7	258.6	258.0	250.9	249.1	250.0	261.0	259.5	242.5	247.6
102.5°	185.5	185.2	187.0	183.7	180.8	181.4	184.9	194.2	192.7	178.1	181.4
105°	112.8	113.1	111.6	110.7	108.3	108.0	108.6	111.3	108.0	98.1	98.7
107.5°	67.1	67.4	67.7	65.6	63.8	63.2	62.9	63.8	62.0	58.2	58.2



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CATALOG NUMBER: MPW-A2-D-U-SYM

CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	45.6	45.6	45.9	44.7	43.3	43.3	43.0	43.8	43.3	41.2	41.2
112.5°	33.4	33.7	33.4	32.8	31.9	32.2	32.2	32.8	32.8	31.6	31.6
115°	26.0	26.0	26.0	25.4	24.8	24.8	25.1	25.7	26.0	25.4	25.4
117.5°	20.6	20.6	20.6	20.3	19.7	19.7	20.0	20.3	20.9	20.6	20.6
120°	17.3	17.3	17.3	17.0	16.7	16.7	17.0	17.3	17.6	17.3	17.3
122.5°	15.5	15.5	15.5	15.2	14.9	14.9	14.9	15.2	15.5	15.5	15.5
125°	14.0	14.0	14.0	14.0	13.4	13.1	13.4	13.7	14.0	14.3	14.3
127.5°	11.6	11.6	11.9	11.6	11.3	11.3	11.6	11.6	12.2	12.5	12.5
130°	8.7	8.7	8.9	8.9	8.7	8.4	8.7	8.9	9.5	9.8	9.5
132.5°	5.4	5.7	5.7	5.7	5.4	5.4	5.7	6.0	6.6	6.9	6.6
135°	0.6	0.6	0.9	0.6	0.9	0.9	0.9	1.2	1.8	2.1	2.1
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	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.3	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.3	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.3	0.3	0.3	0.0	0.3	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3
2.5°	34.6	34.9	34.3	34.0	33.7	33.4	33.1	32.5	32.2	32.2	31.9
5°	40.6	40.3	39.7	38.8	38.5	38.2	37.9	37.6	37.6	37.6	37.6
7.5°	46.2	45.6	44.1	43.3	43.0	43.3	42.7	42.4	42.1	41.8	41.8
10°	49.5	48.9	48.0	47.1	46.5	46.5	46.2	45.6	45.0	44.7	44.7
12.5°	51.6	51.0	50.4	49.5	48.9	48.6	48.3	47.4	46.5	46.5	46.2
15°	54.6	54.0	53.1	52.2	51.6	51.0	50.7	49.5	48.6	48.3	48.3
17.5°	57.0	56.4	55.8	54.9	54.0	53.1	52.5	51.6	50.7	50.4	50.4
20°	59.4	58.8	57.9	57.3	56.1	55.2	54.6	53.7	52.8	52.5	52.2
22.5°	61.7	61.1	60.3	59.7	58.5	57.3	56.4	55.5	54.3	54.0	53.7
25°	63.5	62.9	62.3	61.4	60.3	59.1	57.9	56.7	56.1	55.5	55.2
27.5°	65.0	64.7	64.1	63.2	61.7	60.6	59.4	58.2	57.3	56.7	56.7
30°	66.2	65.9	65.3	64.4	63.2	62.0	60.9	59.7	58.5	57.9	57.6
32.5°	67.1	66.5	66.2	65.3	64.4	63.2	62.0	60.9	59.7	59.1	58.8
35°	68.0	67.7	67.1	66.5	65.3	64.4	63.2	62.3	61.1	60.9	60.6
37.5°	70.7	70.4	69.8	68.6	67.7	66.8	65.9	65.0	64.4	64.1	63.8
40°	78.4	77.3	76.1	74.9	73.1	71.9	71.0	70.7	70.4	70.4	70.7
42.5°	88.9	88.3	87.4	85.3	82.9	81.1	80.2	80.5	80.2	80.2	80.8
45°	105.6	104.4	103.2	101.4	97.2	94.3	93.4	92.8	93.4	93.1	93.7
47.5°	127.4	128.3	124.1	122.0	117.5	113.1	112.5	110.7	111.9	112.5	113.3
50°	157.5	158.4	154.5	150.3	145.3	137.8	136.6	134.5	135.4	138.1	137.8
52.5°	195.7	196.0	192.1	187.9	181.7	171.2	169.7	167.3	166.4	170.3	170.6
55°	235.3	236.8	230.9	227.9	221.6	207.0	202.2	198.4	198.7	202.8	201.9
57.5°	266.4	267.0	261.6	260.1	253.2	235.3	230.0	221.9	224.6	227.6	227.6
60°	289.9	290.5	284.0	284.9	279.5	256.5	251.8	242.8	244.9	247.0	250.3
62.5°	310.2	312.3	303.4	305.1	300.4	275.0	268.2	261.3	263.7	264.0	266.1
65°	331.4	331.7	322.4	324.8	318.6	293.8	283.1	276.5	279.8	279.2	281.9
67.5°	349.6	350.2	340.3	345.7	338.3	312.0	301.6	294.1	296.8	294.7	302.2
70°	368.4	370.2	356.2	361.2	355.0	326.9	315.3	308.1	309.0	306.6	316.2
72.5°	380.0	383.9	372.6	378.8	369.9	340.6	329.9	323.6	321.6	318.9	325.4
75°	393.4	397.3	382.1	391.1	383.3	353.8	342.4	336.8	332.3	330.8	335.9
77.5°	400.9	405.1	394.0	400.6	390.5	360.3	347.5	338.9	337.7	336.2	341.8
78°	401.5	404.2	391.9	401.8	390.8	361.2	348.7	340.0	339.2	336.8	342.4
80°	399.4	401.8	390.5	399.4	389.0	359.4	347.5	336.2	336.8	333.5	340.3
82.5°	398.2	400.9	389.6	395.5	388.1	357.0	347.2	333.8	333.8	328.4	335.0
85°	385.4	388.7	379.4	386.6	378.8	349.3	340.9	326.6	326.6	322.4	330.5
87.5°	378.5	381.8	370.5	380.3	370.8	340.3	333.8	321.9	321.0	316.5	324.2
90°	370.2	374.1	362.4	367.2	359.7	330.8	323.6	310.2	309.0	304.3	311.4
92.5°	350.2	353.8	342.7	349.9	343.0	317.1	309.9	299.2	297.1	293.8	300.7
95°	323.0	327.2	318.6	326.0	318.9	295.6	290.2	282.2	280.1	278.0	282.2
97.5°	287.8	289.6	283.4	290.2	284.0	263.7	259.2	251.2	247.6	247.0	248.5
100°	243.1	244.3	237.1	242.5	238.0	219.8	217.5	213.6	208.8	208.2	208.8
102.5°	180.5	175.4	169.7	167.6	167.0	153.3	154.8	156.9	154.8	157.2	162.3
105°	97.8	94.9	92.8	91.0	92.2	84.4	85.9	86.2	84.4	85.6	87.4
107.5°	57.6	56.7	55.8	54.9	53.1	50.4	49.8	47.7	47.7	47.7	48.3



REPORT NUMBER: P314588

CATALOG NUMBER: MPW-A2-D-U-SYM

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	40.9	40.6	39.7	39.4	37.9	36.1	35.8	34.9	34.3	34.3	34.9
112.5°	31.3	31.0	30.4	30.1	29.5	27.4	27.1	26.8	26.8	26.8	27.1
115°	25.1	24.8	24.5	23.9	23.0	21.5	21.8	21.2	21.2	21.5	21.5
117.5°	20.3	20.0	20.0	19.4	18.5	17.6	17.6	17.3	17.3	17.3	17.6
120°	17.3	17.0	16.7	16.4	15.5	14.6	14.6	14.3	14.6	14.6	14.6
122.5°	15.5	15.2	14.9	14.6	13.7	12.8	12.8	12.5	12.8	12.8	12.8
125°	14.0	13.7	13.4	12.8	11.9	11.3	11.3	11.3	11.3	11.3	11.3
127.5°	12.2	11.9	11.3	10.7	10.1	9.5	9.5	9.5	9.8	9.8	9.8
130°	9.5	8.9	8.7	8.1	7.5	6.9	7.2	7.5	7.8	7.8	7.8
132.5°	6.6	6.3	5.7	5.1	4.5	4.5	4.5	5.1	5.4	5.4	5.4
135°	1.8	1.8	1.8	1.5	1.5	1.5	1.8	2.4	2.4	2.7	2.7
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°	0.0	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	0.3	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	0.3	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)