

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: P314590

Luminaire Tested: **MPW-A4-D-U-SYM**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P314590  
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-A4-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: 4269 lumens  
Efficiency: N/A  
Efficacy: 109.2 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.58')  
IES Classification: Type I - Short - Non-Cutoff  
BUG Rating: B2 - U4 - G3

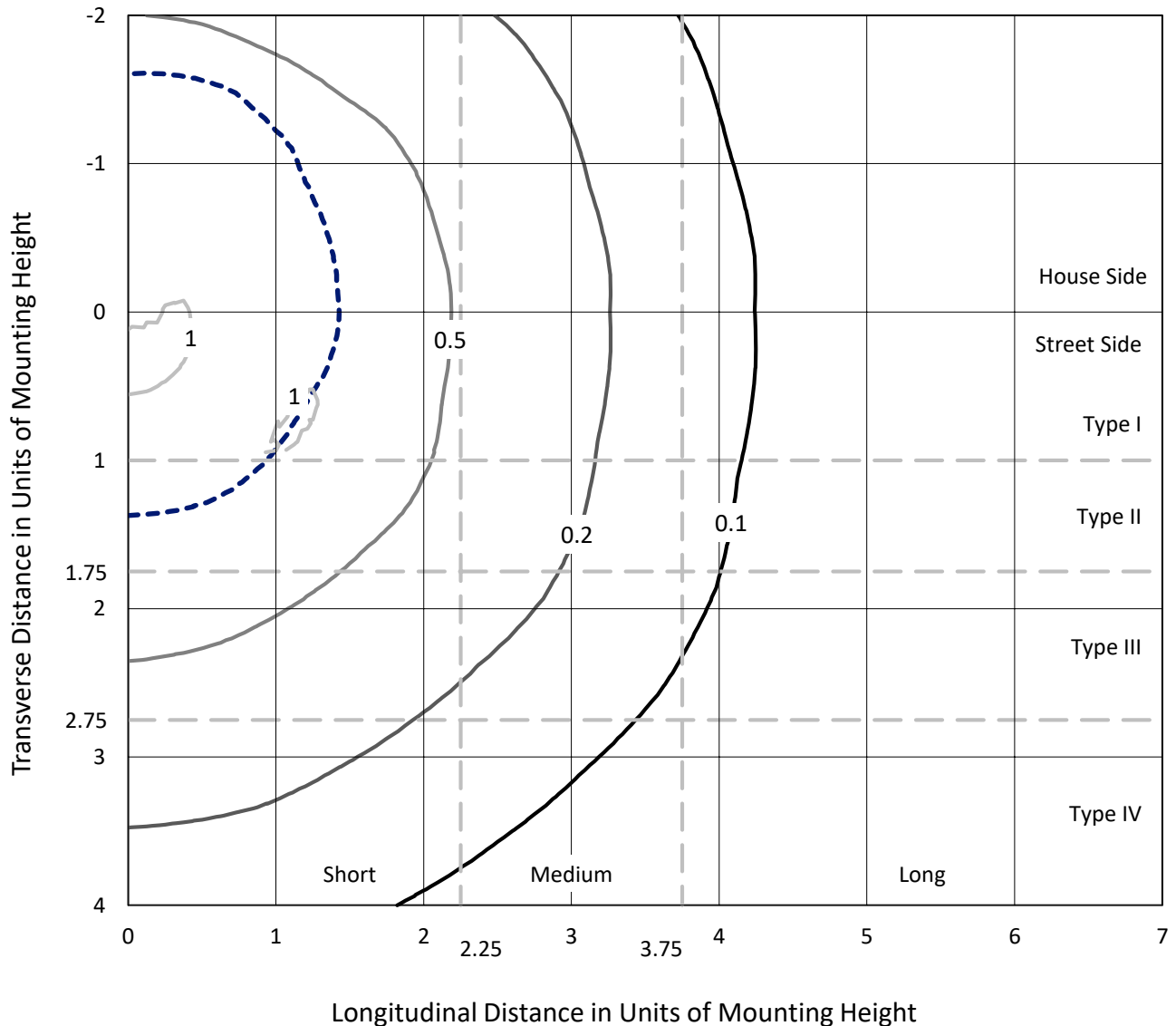
Input Watts (W): 39.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

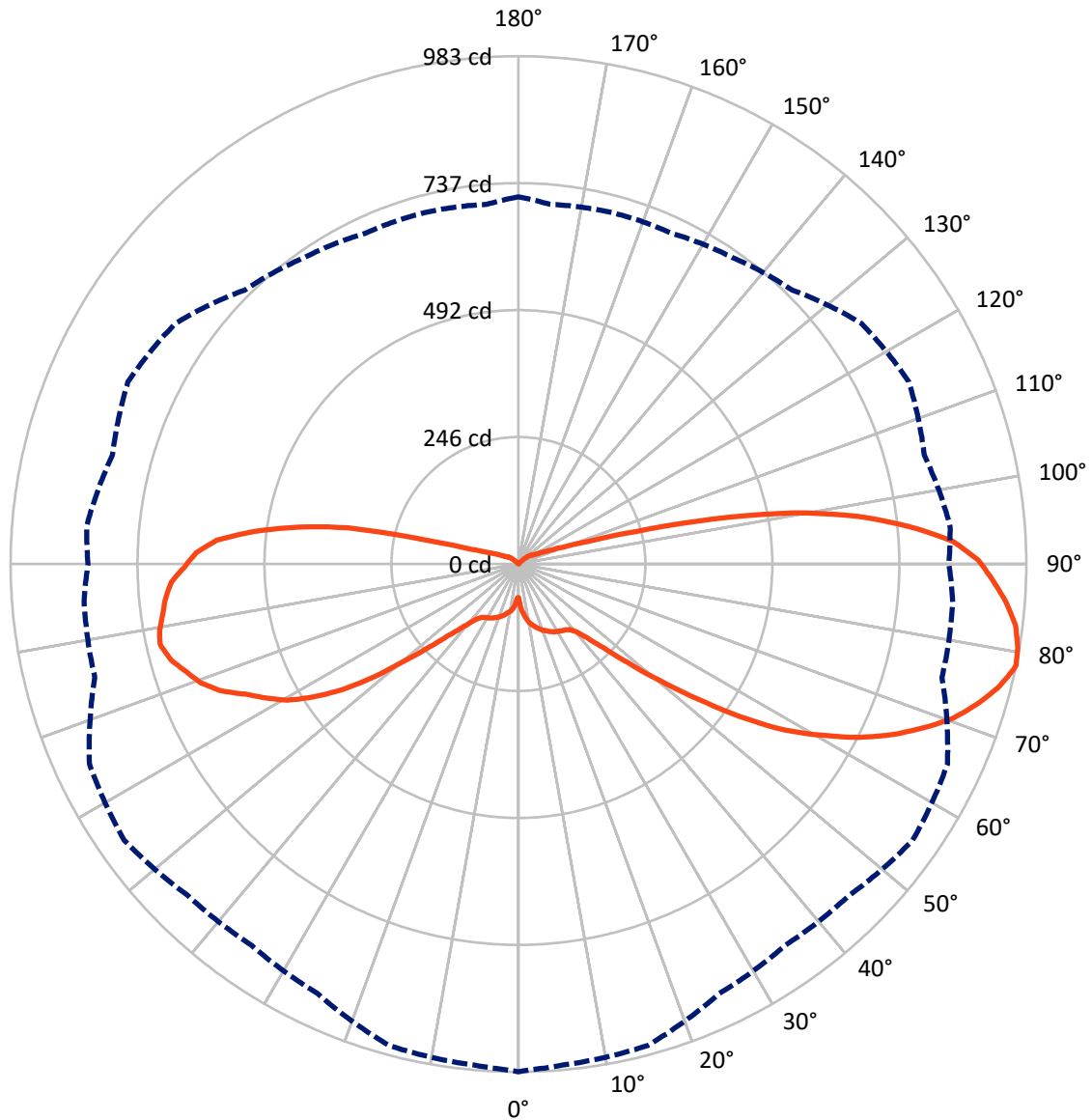
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1.1 fc  
 Type I - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 78-Deg Vertical

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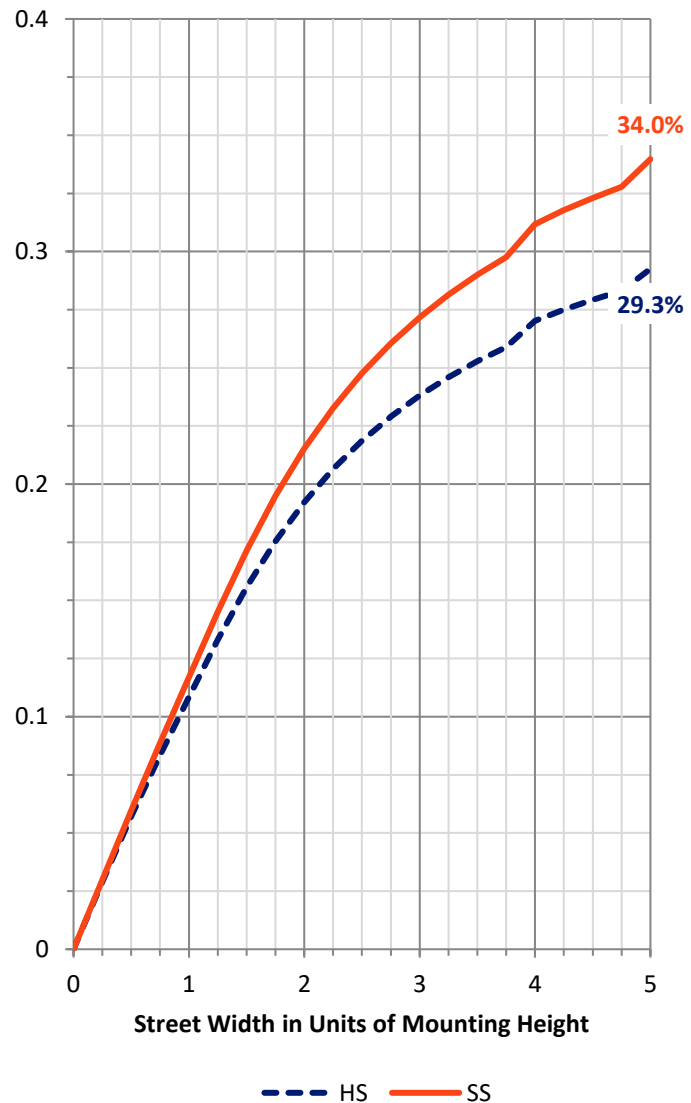
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1473.5	490.8	1964.3
	% Fixture	34.5	11.5	46.0
<b>Street Side</b>	Lumens	1739.2	565.6	2304.8
	% Fixture	40.7	13.2	54.0
<b>Total</b>	Lumens	3212.6	1056.4	4269.0
	% Fixture	75.3	24.7	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	8.7	0.2
10°-20°	32.4	0.8
20°-30°	60.6	1.4
30°-40°	90.8	2.1
40°-50°	177.9	4.2
50°-60°	425.8	10.0
60°-70°	677.8	15.9
70°-80°	859.2	20.1
80°-90°	879.5	20.6
90°-100°	716.3	16.8
100°-110°	258.7	6.1
110°-120°	52.8	1.2
120°-130°	23.8	0.6
130°-140°	4.8	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°	3212.6	75.3
0°-180°	4269.0	100.0



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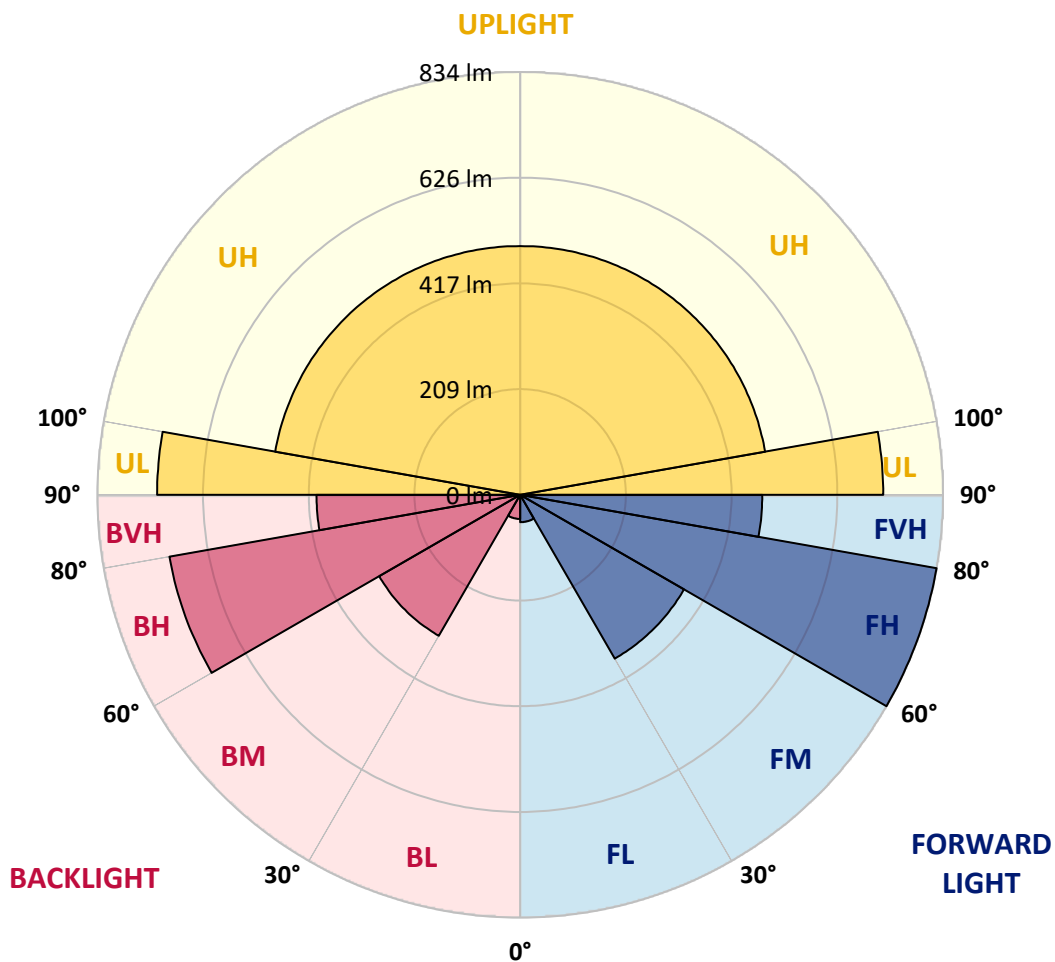
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	54.1	1.3			
FM	(30°-60°)	373.3	8.7			
FH	(60°-80°)	834.3	19.5			G1/1800
FVH	(80°-90°)	477.6	11.2			G3/500
BL	(0°-30°)	47.6	1.1	B0/110		
BM	(30°-60°)	321.2	7.5	B1/1000		
BH	(60°-80°)	702.7	16.5	B2/1000		G2/1000
BVH	(80°-90°)	402.0	9.4			G3/500
UL	(90°-100°)	716.3	16.8		U4/1000	
UH	(100°-180°)	490.8	11.5		U3/500	

**BUG Rating: B2-U4-G3**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
2.5°	83.0	82.3	81.7	80.5	81.1	80.5	79.2	77.4	75.5	73.7	72.4
5°	96.0	95.3	95.3	95.3	95.3	95.3	94.7	92.9	90.4	87.9	84.8
7.5°	105.9	105.2	105.2	105.9	105.9	105.2	104.0	102.8	100.9	99.7	97.2
10°	115.1	114.5	114.5	114.5	113.9	112.7	111.4	109.6	107.1	105.9	104.0
12.5°	121.3	120.7	120.7	120.1	119.5	118.2	115.8	113.3	112.0	110.2	108.3
15°	126.9	126.3	126.3	125.0	124.4	123.2	120.7	118.9	117.0	115.8	114.5
17.5°	131.9	131.9	131.2	130.0	129.4	128.1	126.3	123.8	122.0	120.7	118.9
20°	136.8	136.2	136.2	135.0	133.7	132.5	130.6	128.8	127.5	125.7	123.8
22.5°	140.5	140.5	139.9	139.3	138.0	137.4	135.0	133.7	131.9	130.6	128.8
25°	144.9	144.9	144.9	143.6	142.4	141.8	139.3	138.0	136.8	135.0	132.5
27.5°	148.6	148.0	148.6	147.3	145.5	144.9	142.4	140.5	139.3	138.0	135.6
30°	151.0	151.0	150.4	149.8	148.0	146.7	144.9	143.0	141.8	139.9	138.0
32.5°	154.1	152.9	154.1	151.7	150.4	148.6	146.7	144.2	143.0	141.1	139.3
35°	156.6	156.0	156.0	155.4	152.9	151.7	149.2	147.3	145.5	143.6	141.8
37.5°	161.0	161.0	161.0	159.7	158.5	159.1	157.2	154.8	152.9	150.4	147.3
40°	172.1	172.1	172.1	172.1	171.5	173.3	172.7	172.1	171.5	167.8	162.8
42.5°	195.0	195.6	195.0	195.0	195.6	199.3	200.0	201.2	199.3	193.8	187.0
45°	232.1	233.4	232.1	234.0	235.2	240.2	239.6	240.8	238.3	233.4	222.2
47.5°	286.0	287.9	288.5	284.8	285.4	290.3	293.4	294.7	292.2	281.0	271.1
50°	353.5	355.3	355.3	352.2	349.1	355.3	359.7	362.1	363.4	344.8	333.7
52.5°	432.7	435.2	434.6	430.9	424.7	437.7	441.4	453.1	450.0	422.2	409.8
55°	522.5	525.0	524.3	516.9	507.0	512.6	523.7	537.3	533.6	499.6	490.9
57.5°	606.0	607.3	607.3	598.0	586.2	582.5	590.0	606.0	599.9	560.2	552.8
60°	672.9	674.1	674.8	660.5	646.3	638.2	644.4	662.4	656.2	610.4	603.0
62.5°	739.1	734.2	729.2	717.5	697.7	688.4	689.6	713.1	700.8	650.6	645.0
65°	796.1	794.2	782.5	770.1	748.4	737.9	737.9	762.7	750.3	697.0	689.6
67.5°	846.2	846.2	832.6	820.9	791.8	779.4	776.9	806.6	791.1	736.7	727.4
70°	893.3	892.0	876.6	868.5	832.6	814.7	817.8	848.1	834.5	776.9	770.1
72.5°	928.0	928.0	916.8	909.4	865.4	848.7	850.0	882.1	866.7	806.0	796.7
75°	958.3	955.8	949.6	942.8	897.0	877.8	880.9	912.5	896.4	835.1	831.4
77.5°	980.0	978.1	972.5	965.1	915.0	897.6	902.6	931.0	916.8	846.9	841.9
78°	983.0	980.0	973.8	965.1	918.0	900.7	906.3	931.7	916.2	848.7	843.8
80°	980.0	977.5	970.7	961.4	919.9	899.5	902.6	924.9	908.8	845.6	838.8
82.5°	969.4	967.6	961.4	950.2	908.8	891.4	894.5	915.6	901.3	835.7	838.8
85°	947.1	942.8	937.9	926.7	890.8	871.0	873.5	893.9	877.8	813.4	811.6
87.5°	919.3	916.2	912.5	901.3	867.9	850.6	851.2	871.6	856.1	796.1	796.1
90°	889.6	885.9	882.8	872.2	839.4	822.7	823.3	846.2	833.9	778.8	781.9
92.5°	841.9	838.8	835.7	824.0	794.2	778.1	780.6	802.9	790.5	736.7	740.4
95°	759.6	757.1	757.7	749.0	722.4	707.6	708.2	730.5	718.7	671.7	681.6
97.5°	663.0	661.8	658.0	655.0	631.4	622.1	619.7	643.8	638.2	597.4	607.9
100°	543.5	541.0	536.7	535.5	520.6	516.9	518.8	541.7	538.6	503.3	513.8
102.5°	385.0	384.4	388.1	381.3	375.1	376.4	383.8	403.0	399.9	369.6	376.4
105°	234.0	234.6	231.5	229.7	224.7	224.1	225.3	230.9	224.1	203.7	204.9
107.5°	139.3	139.9	140.5	136.2	132.5	131.2	130.6	132.5	128.8	120.7	120.7



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**CANDELA DISTRIBUTION (continued):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	94.7	94.7	95.3	92.9	89.8	89.8	89.1	91.0	89.8	85.4	85.4
112.5°	69.3	70.0	69.3	68.1	66.2	66.9	66.9	68.1	68.1	65.6	65.6
115°	53.9	53.9	53.9	52.6	51.4	51.4	52.0	53.2	53.9	52.6	52.6
117.5°	42.7	42.7	42.7	42.1	40.9	40.9	41.5	42.1	43.3	42.7	42.7
120°	35.9	35.9	35.9	35.3	34.7	34.7	35.3	35.9	36.5	35.9	35.9
122.5°	32.2	32.2	32.2	31.6	31.0	31.0	31.0	31.6	32.2	32.2	32.2
125°	29.1	29.1	29.1	29.1	27.9	27.2	27.9	28.5	29.1	29.7	29.7
127.5°	24.1	24.1	24.8	24.1	23.5	23.5	24.1	24.1	25.4	26.0	26.0
130°	18.0	18.0	18.6	18.6	18.0	17.3	18.0	18.6	19.8	20.4	19.8
132.5°	11.1	11.8	11.8	11.8	11.1	11.1	11.8	12.4	13.6	14.2	13.6
135°	1.2	1.2	1.9	1.2	1.9	1.9	1.9	2.5	3.7	4.3	4.3
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.6	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.6	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.6	0.6	0.6	0.0	0.6	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°	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
2.5°	71.8	72.4	71.2	70.6	70.0	69.3	68.7	67.5	66.9	66.9	66.2
5°	84.2	83.6	82.3	80.5	79.9	79.2	78.6	78.0	78.0	78.0	78.0
7.5°	96.0	94.7	91.6	89.8	89.1	89.8	88.5	87.9	87.3	86.7	86.7
10°	102.8	101.5	99.7	97.8	96.6	96.6	96.0	94.7	93.5	92.9	92.9
12.5°	107.1	105.9	104.6	102.8	101.5	100.9	100.3	98.4	96.6	96.6	96.0
15°	113.3	112.0	110.2	108.3	107.1	105.9	105.2	102.8	100.9	100.3	100.3
17.5°	118.2	117.0	115.8	113.9	112.0	110.2	109.0	107.1	105.2	104.6	104.6
20°	123.2	122.0	120.1	118.9	116.4	114.5	113.3	111.4	109.6	109.0	108.3
22.5°	128.1	126.9	125.0	123.8	121.3	118.9	117.0	115.1	112.7	112.0	111.4
25°	131.9	130.6	129.4	127.5	125.0	122.6	120.1	117.6	116.4	115.1	114.5
27.5°	135.0	134.3	133.1	131.2	128.1	125.7	123.2	120.7	118.9	117.6	117.6
30°	137.4	136.8	135.6	133.7	131.2	128.8	126.3	123.8	121.3	120.1	119.5
32.5°	139.3	138.0	137.4	135.6	133.7	131.2	128.8	126.3	123.8	122.6	122.0
35°	141.1	140.5	139.3	138.0	135.6	133.7	131.2	129.4	126.9	126.3	125.7
37.5°	146.7	146.1	144.9	142.4	140.5	138.7	136.8	135.0	133.7	133.1	132.5
40°	162.8	160.3	157.9	155.4	151.7	149.2	147.3	146.7	146.1	146.1	146.7
42.5°	184.5	183.2	181.4	177.0	172.1	168.4	166.5	167.1	166.5	166.5	167.8
45°	219.1	216.7	214.2	210.5	201.8	195.6	193.8	192.5	193.8	193.1	194.4
47.5°	264.3	266.2	257.5	253.2	243.9	234.6	233.4	229.7	232.1	233.4	235.2
50°	326.9	328.7	320.7	312.0	301.5	286.0	283.5	279.2	281.0	286.6	286.0
52.5°	406.1	406.7	398.7	390.0	377.0	355.3	352.2	347.3	345.4	353.5	354.1
55°	488.4	491.5	479.1	473.0	460.0	429.6	419.7	411.7	412.3	421.0	419.1
57.5°	552.8	554.0	542.9	539.8	525.6	488.4	477.3	460.6	466.1	472.3	472.3
60°	601.7	603.0	589.3	591.2	580.0	532.4	522.5	503.9	508.2	512.6	519.4
62.5°	643.8	648.1	629.6	633.3	623.4	570.8	556.5	542.3	547.2	547.9	552.2
65°	687.8	688.4	669.2	674.1	661.1	609.8	587.5	573.9	580.7	579.4	585.0
67.5°	725.5	726.8	706.3	717.5	702.0	647.5	625.9	610.4	616.0	611.6	627.1
70°	764.5	768.2	739.1	749.7	736.7	678.5	654.3	639.5	641.3	636.4	656.2
72.5°	788.7	796.7	773.2	786.2	767.6	707.0	684.7	671.7	667.3	661.8	675.4
75°	816.5	824.6	793.0	811.6	795.5	734.2	710.7	698.9	689.6	686.5	697.0
77.5°	832.0	840.7	817.8	831.4	810.3	747.8	721.2	703.2	700.8	697.7	709.4
78°	833.2	838.8	813.4	833.9	811.0	749.7	723.7	705.7	703.9	698.9	710.7
80°	828.9	833.9	810.3	828.9	807.2	746.0	721.2	697.7	698.9	692.1	706.3
82.5°	826.4	832.0	808.5	820.9	805.4	741.0	720.6	692.7	692.7	681.6	695.2
85°	799.8	806.6	787.4	802.3	786.2	724.9	707.6	677.9	677.9	669.2	685.9
87.5°	785.6	792.4	768.9	789.3	769.5	706.3	692.7	668.0	666.1	656.8	672.9
90°	768.2	776.3	752.1	762.0	746.6	686.5	671.7	643.8	641.3	631.4	646.3
92.5°	726.8	734.2	711.3	726.1	711.9	658.0	643.2	620.9	616.6	609.8	624.0
95°	670.4	679.1	661.1	676.6	661.8	613.5	602.3	585.6	581.3	577.0	585.6
97.5°	597.4	601.1	588.1	602.3	589.3	547.2	538.0	521.2	513.8	512.6	515.7
100°	504.5	507.0	492.1	503.3	494.0	456.2	451.3	443.2	433.3	432.1	433.3
102.5°	374.5	364.0	352.2	347.9	346.7	318.2	321.3	325.6	321.3	326.2	336.8
105°	203.0	196.9	192.5	188.8	191.3	175.2	178.3	178.9	175.2	177.7	181.4
107.5°	119.5	117.6	115.8	113.9	110.2	104.6	103.4	99.0	99.0	99.0	100.3



REPORT NUMBER: P314590

CATALOG NUMBER: MPW-A4-D-U-SYM

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	84.8	84.2	82.3	81.7	78.6	74.9	74.3	72.4	71.2	71.2	72.4
112.5°	65.0	64.4	63.1	62.5	61.3	57.0	56.3	55.7	55.7	55.7	56.3
115°	52.0	51.4	50.8	49.5	47.7	44.6	45.2	44.0	44.0	44.6	44.6
117.5°	42.1	41.5	41.5	40.2	38.4	36.5	36.5	35.9	35.9	35.9	36.5
120°	35.9	35.3	34.7	34.0	32.2	30.3	30.3	29.7	30.3	30.3	30.3
122.5°	32.2	31.6	31.0	30.3	28.5	26.6	26.6	26.0	26.6	26.6	26.6
125°	29.1	28.5	27.9	26.6	24.8	23.5	23.5	23.5	23.5	23.5	23.5
127.5°	25.4	24.8	23.5	22.3	21.0	19.8	19.8	19.8	20.4	20.4	20.4
130°	19.8	18.6	18.0	16.7	15.5	14.2	14.9	15.5	16.1	16.1	16.1
132.5°	13.6	13.0	11.8	10.5	9.3	9.3	9.3	10.5	11.1	11.1	11.1
135°	3.7	3.7	3.7	3.1	3.1	3.1	3.7	5.0	5.0	5.6	5.6
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	0.0	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	0.6	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	0.6	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)