

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: P314579

Luminaire Tested: **MPW-A5-D-U-SYM-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314579
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-A5-D-U-SYM-7027
Description: WOODBRIDGE POST TOP LUMINAIRE
(1) 70 CRI, 2700K LIGHT ENGINE. SYMMETRIC DISTRIBUTION.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4977 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.58')
IES Classification: Type I - Short - Non-Cutoff
BUG Rating: B2 - U4 - G4

Input Watts (W): 50.6
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

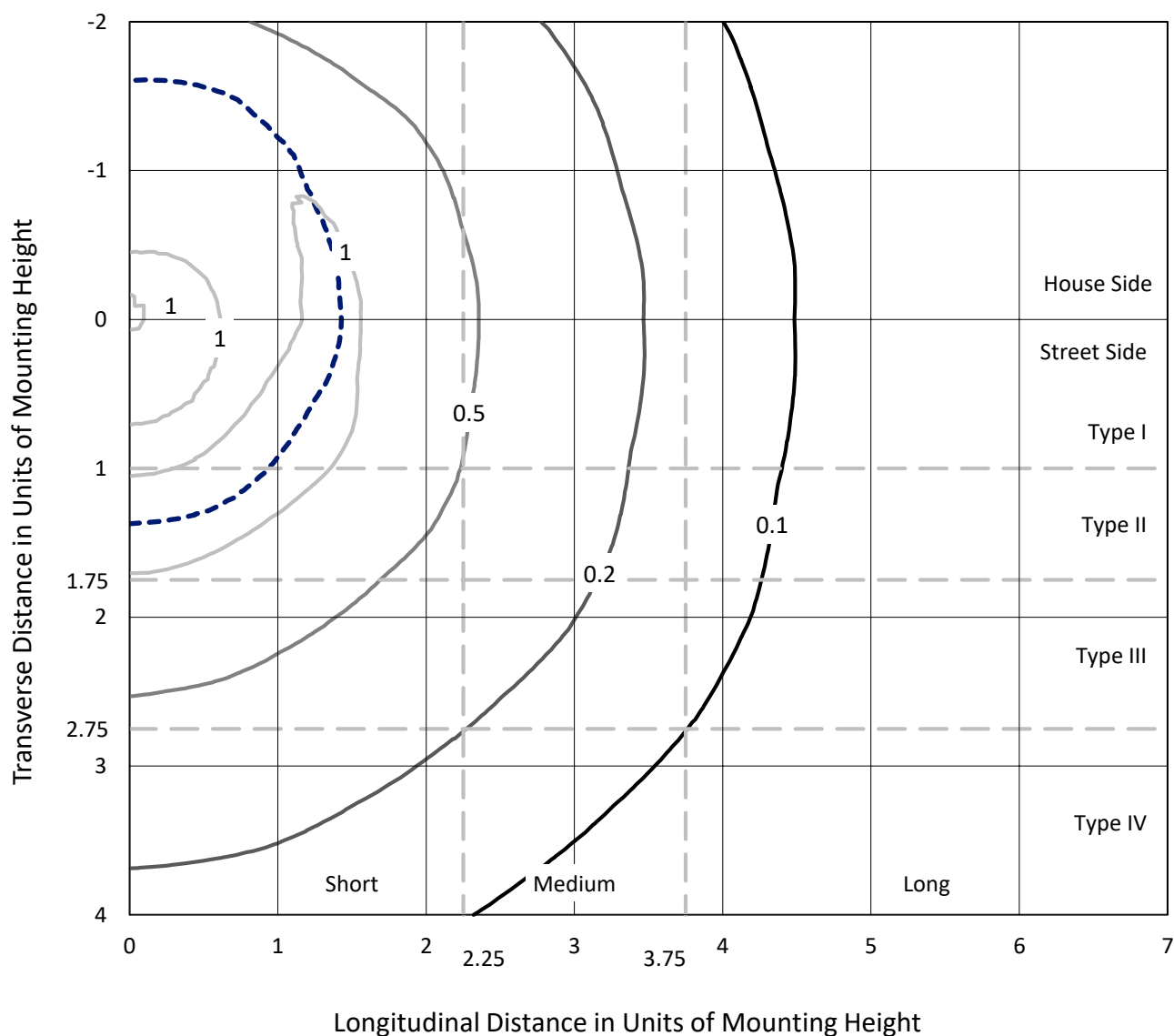


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

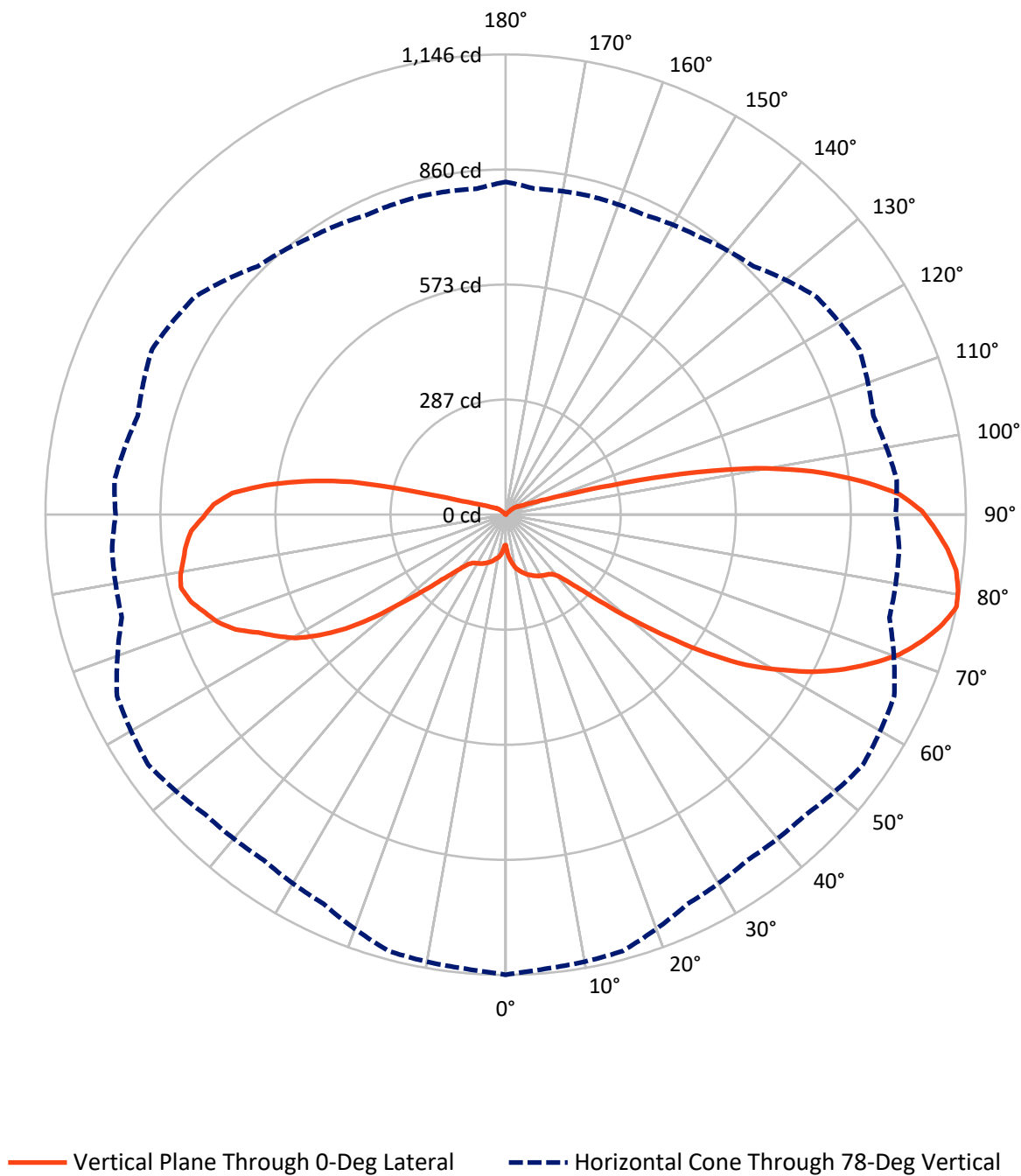


Based on 10 foot mounting height. Maximum calculated value = 1.3 fc
 Type I - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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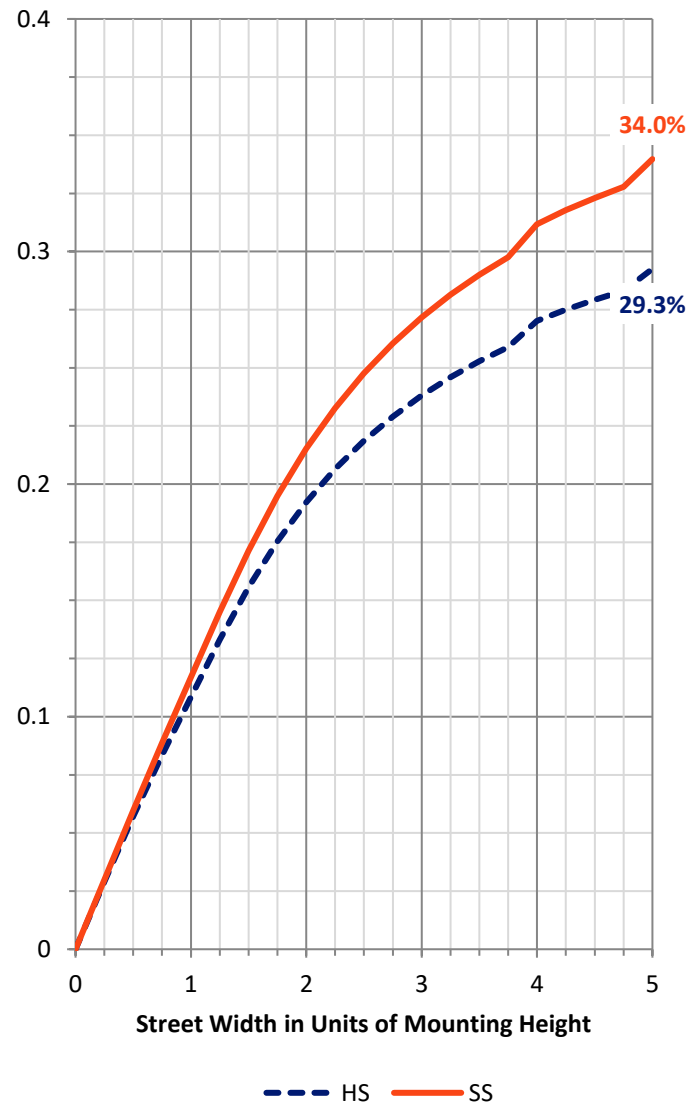
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1717.8	572.2	2290.0
	% Fixture	34.5	11.5	46.0
Street Side	Lumens	2027.6	659.4	2687.0
	% Fixture	40.7	13.2	54.0
Total	Lumens	3745.4	1231.6	4977.0
	% Fixture	75.3	24.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.2	0.2
10°-20°	37.7	0.8
20°-30°	70.6	1.4
30°-40°	105.8	2.1
40°-50°	207.4	4.2
50°-60°	496.4	10.0
60°-70°	790.2	15.9
70°-80°	1001.7	20.1
80°-90°	1025.4	20.6
90°-100°	835.1	16.8
100°-110°	301.6	6.1
110°-120°	61.5	1.2
120°-130°	27.7	0.6
130°-140°	5.6	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°	3745.4	75.3
0°-180°	4977.0	100.0

Coefficient of Utilization



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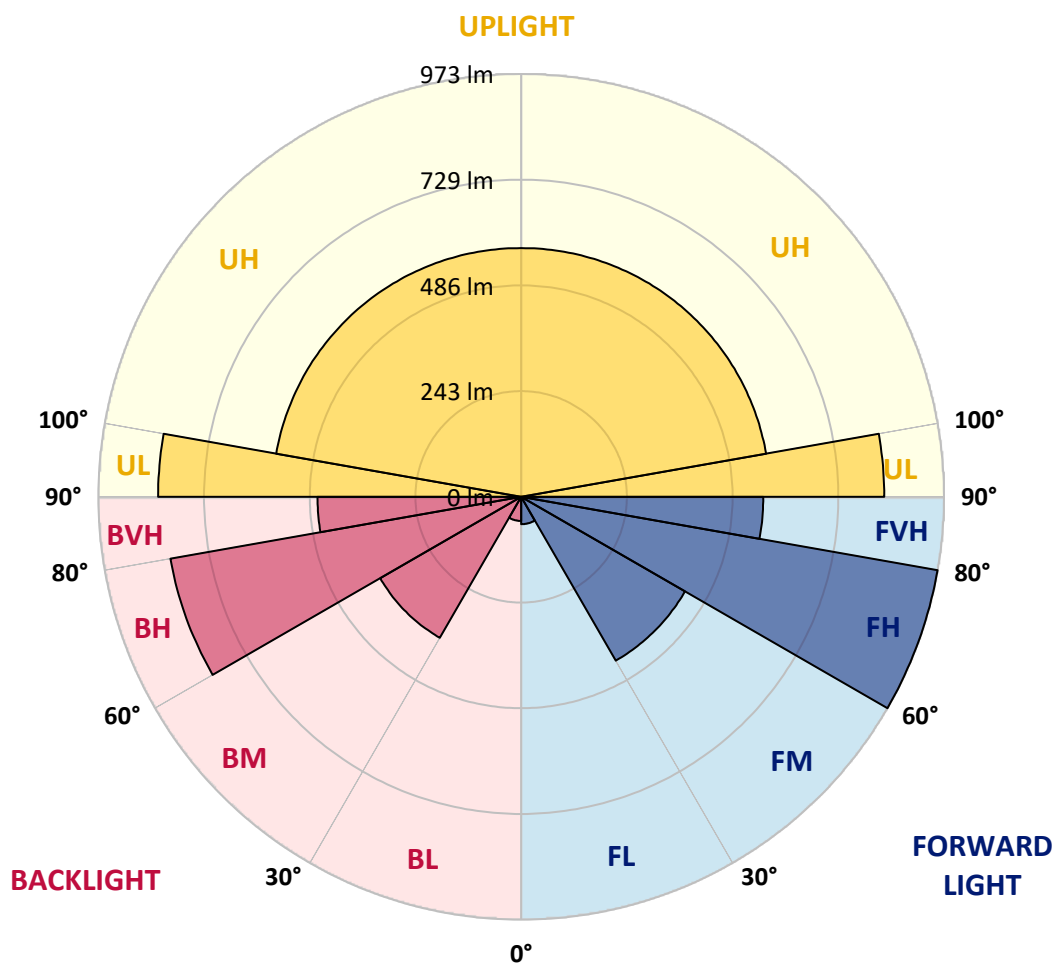
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	63.0	1.3			
FM	(30°-60°)	435.2	8.7			
FH	(60°-80°)	972.6	19.5			G1/1800
FVH	(80°-90°)	556.8	11.2			G4/750
BL	(0°-30°)	55.5	1.1	B0/110		
BM	(30°-60°)	374.4	7.5	B1/1000		
BH	(60°-80°)	819.3	16.5	B2/1000		G2/1000
BVH	(80°-90°)	468.6	9.4			G3/500
UL	(90°-100°)	835.1	16.8		U4/1000	
UH	(100°-180°)	572.2	11.5		U4/1000	

BUG Rating: B2-U4-G4

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
2.5°	96.7	96.0	95.3	93.8	94.5	93.8	92.4	90.2	88.0	85.9	84.4
5°	111.9	111.1	111.1	111.1	111.1	111.1	110.4	108.3	105.4	102.5	98.9
7.5°	123.4	122.7	122.7	123.4	123.4	122.7	121.2	119.8	117.6	116.2	113.3
10°	134.2	133.5	133.5	133.5	132.8	131.4	129.9	127.7	124.9	123.4	121.2
12.5°	141.5	140.7	140.7	140.0	139.3	137.8	135.0	132.1	130.6	128.5	126.3
15°	148.0	147.2	147.2	145.8	145.1	143.6	140.7	138.6	136.4	135.0	133.5
17.5°	153.7	153.7	153.0	151.6	150.8	149.4	147.2	144.3	142.2	140.7	138.6
20°	159.5	158.8	158.8	157.3	155.9	154.4	152.3	150.1	148.7	146.5	144.3
22.5°	163.8	163.8	163.1	162.4	160.9	160.2	157.3	155.9	153.7	152.3	150.1
25°	168.9	168.9	168.9	167.4	166.0	165.3	162.4	160.9	159.5	157.3	154.4
27.5°	173.2	172.5	173.2	171.8	169.6	168.9	166.0	163.8	162.4	160.9	158.1
30°	176.1	176.1	175.4	174.7	172.5	171.0	168.9	166.7	165.3	163.1	160.9
32.5°	179.7	178.3	179.7	176.8	175.4	173.2	171.0	168.2	166.7	164.6	162.4
35°	182.6	181.9	181.9	181.2	178.3	176.8	173.9	171.8	169.6	167.4	165.3
37.5°	187.6	187.6	187.6	186.2	184.8	185.5	183.3	180.4	178.3	175.4	171.8
40°	200.6	200.6	200.6	200.6	199.9	202.1	201.4	200.6	199.9	195.6	189.8
42.5°	227.3	228.1	227.3	227.3	228.1	232.4	233.1	234.6	232.4	225.9	218.0
45°	270.6	272.1	270.6	272.8	274.3	280.0	279.3	280.7	277.9	272.1	259.1
47.5°	333.4	335.6	336.3	332.0	332.7	338.5	342.1	343.5	340.6	327.7	316.1
50°	412.1	414.3	414.3	410.7	407.0	414.3	419.3	422.2	423.6	402.0	389.0
52.5°	504.5	507.4	506.6	502.3	495.1	510.3	514.6	528.3	524.7	492.2	477.8
55°	609.1	612.0	611.3	602.6	591.1	597.6	610.6	626.4	622.1	582.4	572.3
57.5°	706.6	708.0	708.0	697.2	683.5	679.1	687.8	706.6	699.3	653.2	644.5
60°	784.5	785.9	786.7	770.1	753.5	744.1	751.3	772.2	765.0	711.6	703.0
62.5°	861.7	856.0	850.2	836.5	813.4	802.5	804.0	831.4	817.0	758.5	752.0
65°	928.1	926.0	912.2	897.8	872.6	860.3	860.3	889.2	874.7	812.7	804.0
67.5°	986.6	986.6	970.7	957.0	923.1	908.6	905.8	940.4	922.4	858.8	848.0
70°	1041.4	1040.0	1021.9	1012.6	970.7	949.8	953.4	988.7	972.9	905.8	897.8
72.5°	1081.9	1081.9	1068.9	1060.2	1009.0	989.5	990.9	1028.4	1010.4	939.7	928.8
75°	1117.2	1114.3	1107.1	1099.2	1045.8	1023.4	1027.0	1063.8	1045.0	973.6	969.3
77.5°	1142.5	1140.3	1133.8	1125.2	1066.7	1046.5	1052.3	1085.5	1068.9	987.3	981.5
78°	1146.1	1142.5	1135.3	1125.2	1070.3	1050.1	1056.6	1086.2	1068.1	989.5	983.7
80°	1142.5	1139.6	1131.6	1120.8	1072.5	1048.7	1052.3	1078.2	1059.5	985.9	977.9
82.5°	1130.2	1128.0	1120.8	1107.8	1059.5	1039.3	1042.9	1067.4	1050.8	974.3	977.9
85°	1104.2	1099.2	1093.4	1080.4	1038.5	1015.5	1018.3	1042.2	1023.4	948.3	946.2
87.5°	1071.7	1068.1	1063.8	1050.8	1011.8	991.6	992.4	1016.2	998.1	928.1	928.1
90°	1037.1	1032.8	1029.2	1016.9	978.6	959.2	959.9	986.6	972.2	907.9	911.5
92.5°	981.5	977.9	974.3	960.6	926.0	907.2	910.1	936.1	921.6	858.8	863.2
95°	885.5	882.7	883.4	873.3	842.2	824.9	825.6	851.6	837.9	783.1	794.6
97.5°	773.0	771.5	767.2	763.6	736.1	725.3	722.4	750.6	744.1	696.5	708.7
100°	633.7	630.8	625.7	624.3	607.0	602.6	604.8	631.5	627.9	586.8	599.0
102.5°	448.9	448.2	452.5	444.6	437.4	438.8	447.5	469.8	466.2	430.9	438.8
105°	272.8	273.5	269.9	267.8	262.0	261.3	262.7	269.2	261.3	237.4	238.9
107.5°	162.4	163.1	163.8	158.8	154.4	153.0	152.3	154.4	150.1	140.7	140.7



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CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	110.4	110.4	111.1	108.3	104.6	104.6	103.9	106.1	104.6	99.6	99.6
112.5°	80.8	81.6	80.8	79.4	77.2	77.9	77.9	79.4	79.4	76.5	76.5
115°	62.8	62.8	62.8	61.3	59.9	59.9	60.6	62.1	62.8	61.3	61.3
117.5°	49.8	49.8	49.8	49.1	47.6	47.6	48.4	49.1	50.5	49.8	49.8
120°	41.9	41.9	41.9	41.1	40.4	40.4	41.1	41.9	42.6	41.9	41.9
122.5°	37.5	37.5	37.5	36.8	36.1	36.1	36.1	36.8	37.5	37.5	37.5
125°	33.9	33.9	33.9	33.9	32.5	31.8	32.5	33.2	33.9	34.6	34.6
127.5°	28.1	28.1	28.9	28.1	27.4	27.4	28.1	28.1	29.6	30.3	30.3
130°	20.9	20.9	21.7	21.7	20.9	20.2	20.9	21.7	23.1	23.8	23.1
132.5°	13.0	13.7	13.7	13.7	13.0	13.0	13.7	14.4	15.9	16.6	15.9
135°	1.4	1.4	2.2	1.4	2.2	2.2	2.2	2.9	4.3	5.1	5.1
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	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.7	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.7	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.7	0.7	0.7	0.0	0.7	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°	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
2.5°	83.7	84.4	83.0	82.3	81.6	80.8	80.1	78.7	77.9	77.9	77.2
5°	98.2	97.4	96.0	93.8	93.1	92.4	91.7	90.9	90.9	90.9	90.9
7.5°	111.9	110.4	106.8	104.6	103.9	104.6	103.2	102.5	101.8	101.0	101.0
10°	119.8	118.4	116.2	114.0	112.6	112.6	111.9	110.4	109.0	108.3	108.3
12.5°	124.9	123.4	122.0	119.8	118.4	117.6	116.9	114.8	112.6	112.6	111.9
15°	132.1	130.6	128.5	126.3	124.9	123.4	122.7	119.8	117.6	116.9	116.9
17.5°	137.8	136.4	135.0	132.8	130.6	128.5	127.0	124.9	122.7	122.0	122.0
20°	143.6	142.2	140.0	138.6	135.7	133.5	132.1	129.9	127.7	127.0	126.3
22.5°	149.4	148.0	145.8	144.3	141.5	138.6	136.4	134.2	131.4	130.6	129.9
25°	153.7	152.3	150.8	148.7	145.8	142.9	140.0	137.1	135.7	134.2	133.5
27.5°	157.3	156.6	155.2	153.0	149.4	146.5	143.6	140.7	138.6	137.1	137.1
30°	160.2	159.5	158.1	155.9	153.0	150.1	147.2	144.3	141.5	140.0	139.3
32.5°	162.4	160.9	160.2	158.1	155.9	153.0	150.1	147.2	144.3	142.9	142.2
35°	164.6	163.8	162.4	160.9	158.1	155.9	153.0	150.8	148.0	147.2	146.5
37.5°	171.0	170.3	168.9	166.0	163.8	161.7	159.5	157.3	155.9	155.2	154.4
40°	189.8	186.9	184.0	181.2	176.8	173.9	171.8	171.0	170.3	170.3	171.0
42.5°	215.1	213.6	211.5	206.4	200.6	196.3	194.1	194.9	194.1	194.1	195.6
45°	255.5	252.6	249.7	245.4	235.3	228.1	225.9	224.5	225.9	225.2	226.6
47.5°	308.2	310.3	300.2	295.2	284.4	273.5	272.1	267.8	270.6	272.1	274.3
50°	381.1	383.2	373.8	363.7	351.5	333.4	330.5	325.5	327.7	334.2	333.4
52.5°	473.4	474.2	464.8	454.7	439.5	414.3	410.7	404.9	402.7	412.1	412.8
55°	569.4	573.0	558.6	551.4	536.2	500.9	489.3	479.9	480.7	490.8	488.6
57.5°	644.5	645.9	632.9	629.3	612.7	569.4	556.4	537.0	543.5	550.7	550.7
60°	701.5	703.0	687.1	689.2	676.2	620.7	609.1	587.5	592.5	597.6	605.5
62.5°	750.6	755.6	734.0	738.3	726.8	665.4	648.8	632.2	638.0	638.7	643.8
65°	801.8	802.5	780.2	785.9	770.8	710.9	684.9	669.0	677.0	675.5	682.0
67.5°	845.9	847.3	823.5	836.5	818.4	754.9	729.7	711.6	718.1	713.1	731.1
70°	891.3	895.6	861.7	874.0	858.8	791.0	762.9	745.5	747.7	741.9	765.0
72.5°	919.5	928.8	901.4	916.6	894.9	824.2	798.2	783.1	778.0	771.5	787.4
75°	951.9	961.3	924.5	946.2	927.4	856.0	828.5	814.8	804.0	800.4	812.7
77.5°	970.0	980.1	953.4	969.3	944.7	871.8	840.8	819.9	817.0	813.4	827.1
78°	971.4	977.9	948.3	972.2	945.4	874.0	843.7	822.8	820.6	814.8	828.5
80°	966.4	972.2	944.7	966.4	941.1	869.7	840.8	813.4	814.8	806.9	823.5
82.5°	963.5	970.0	942.6	957.0	939.0	863.9	840.1	807.6	807.6	794.6	810.5
85°	932.5	940.4	918.0	935.3	916.6	845.1	824.9	790.3	790.3	780.2	799.7
87.5°	915.9	923.8	896.4	920.2	897.1	823.5	807.6	778.7	776.6	765.7	784.5
90°	895.6	905.0	876.9	888.4	870.4	800.4	783.1	750.6	747.7	736.1	753.5
92.5°	847.3	856.0	829.3	846.6	830.0	767.2	749.9	723.9	718.8	710.9	727.5
95°	781.6	791.7	770.8	788.8	771.5	715.2	702.2	682.7	677.7	672.6	682.7
97.5°	696.5	700.8	685.6	702.2	687.1	638.0	627.2	607.7	599.0	597.6	601.2
100°	588.2	591.1	573.8	586.8	575.9	531.9	526.1	516.7	505.2	503.8	505.2
102.5°	436.6	424.4	410.7	405.6	404.2	371.0	374.6	379.6	374.6	380.3	392.6
105°	236.7	229.5	224.5	220.1	223.0	204.2	207.9	208.6	204.2	207.1	211.5
107.5°	139.3	137.1	135.0	132.8	128.5	122.0	120.5	115.5	115.5	115.5	116.9



REPORT NUMBER: P314579

CATALOG NUMBER: MPW-A5-D-U-SYM-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	98.9	98.2	96.0	95.3	91.7	87.3	86.6	84.4	83.0	83.0	84.4
112.5°	75.8	75.1	73.6	72.9	71.4	66.4	65.7	65.0	65.0	65.0	65.7
115°	60.6	59.9	59.2	57.7	55.6	52.0	52.7	51.2	51.2	52.0	52.0
117.5°	49.1	48.4	48.4	46.9	44.7	42.6	42.6	41.9	41.9	41.9	42.6
120°	41.9	41.1	40.4	39.7	37.5	35.4	35.4	34.6	35.4	35.4	35.4
122.5°	37.5	36.8	36.1	35.4	33.2	31.0	31.0	30.3	31.0	31.0	31.0
125°	33.9	33.2	32.5	31.0	28.9	27.4	27.4	27.4	27.4	27.4	27.4
127.5°	29.6	28.9	27.4	26.0	24.5	23.1	23.1	23.1	23.8	23.8	23.8
130°	23.1	21.7	20.9	19.5	18.0	16.6	17.3	18.0	18.8	18.8	18.8
132.5°	15.9	15.2	13.7	12.3	10.8	10.8	10.8	12.3	13.0	13.0	13.0
135°	4.3	4.3	4.3	3.6	3.6	3.6	4.3	5.8	5.8	6.5	6.5
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°	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	0.7	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	0.7	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)