

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: P314591

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314591
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
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: 5360 lumens
Efficiency: N/A
Efficacy: 105.9 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



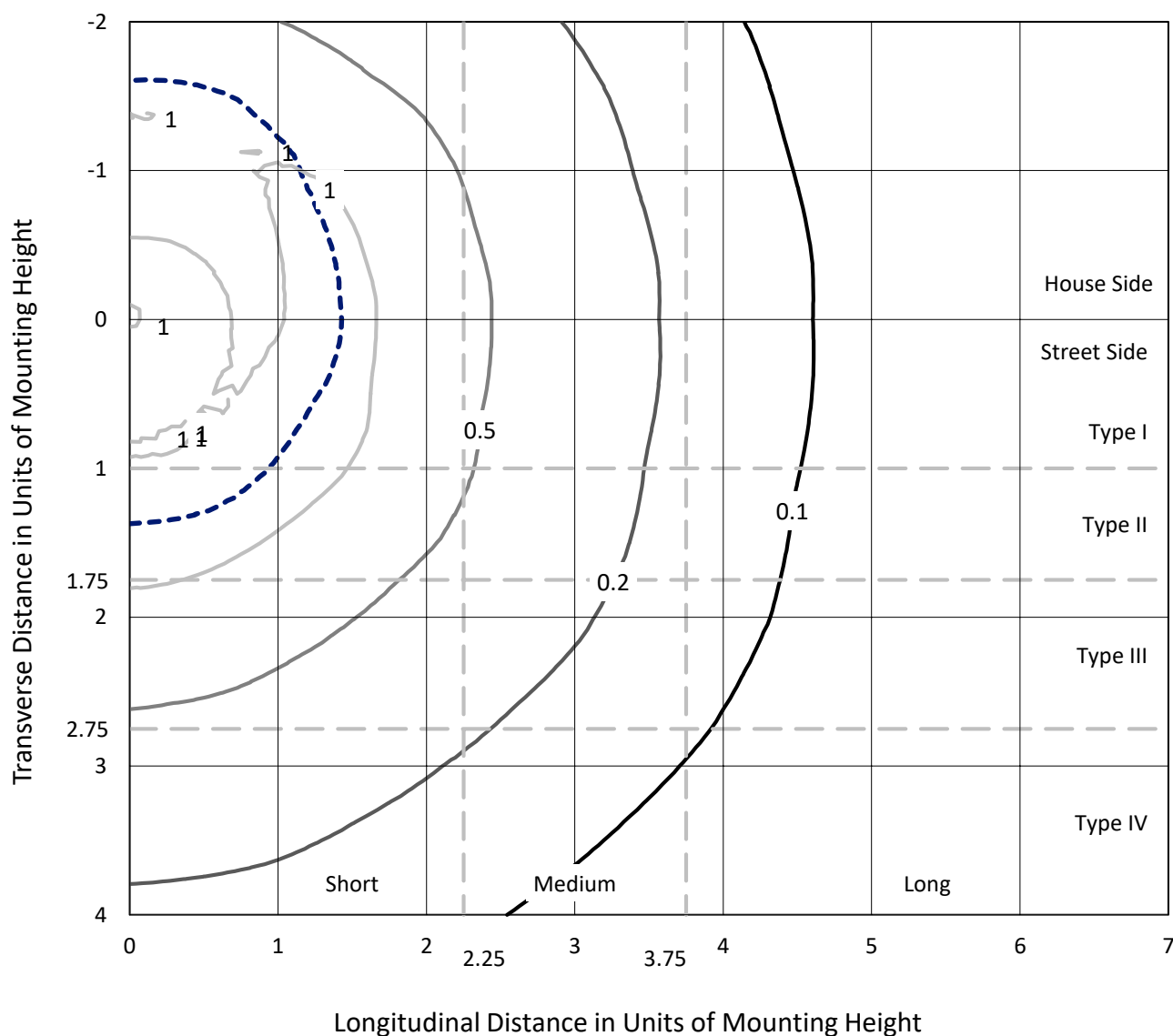
REPORT NUMBER: P314591

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

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

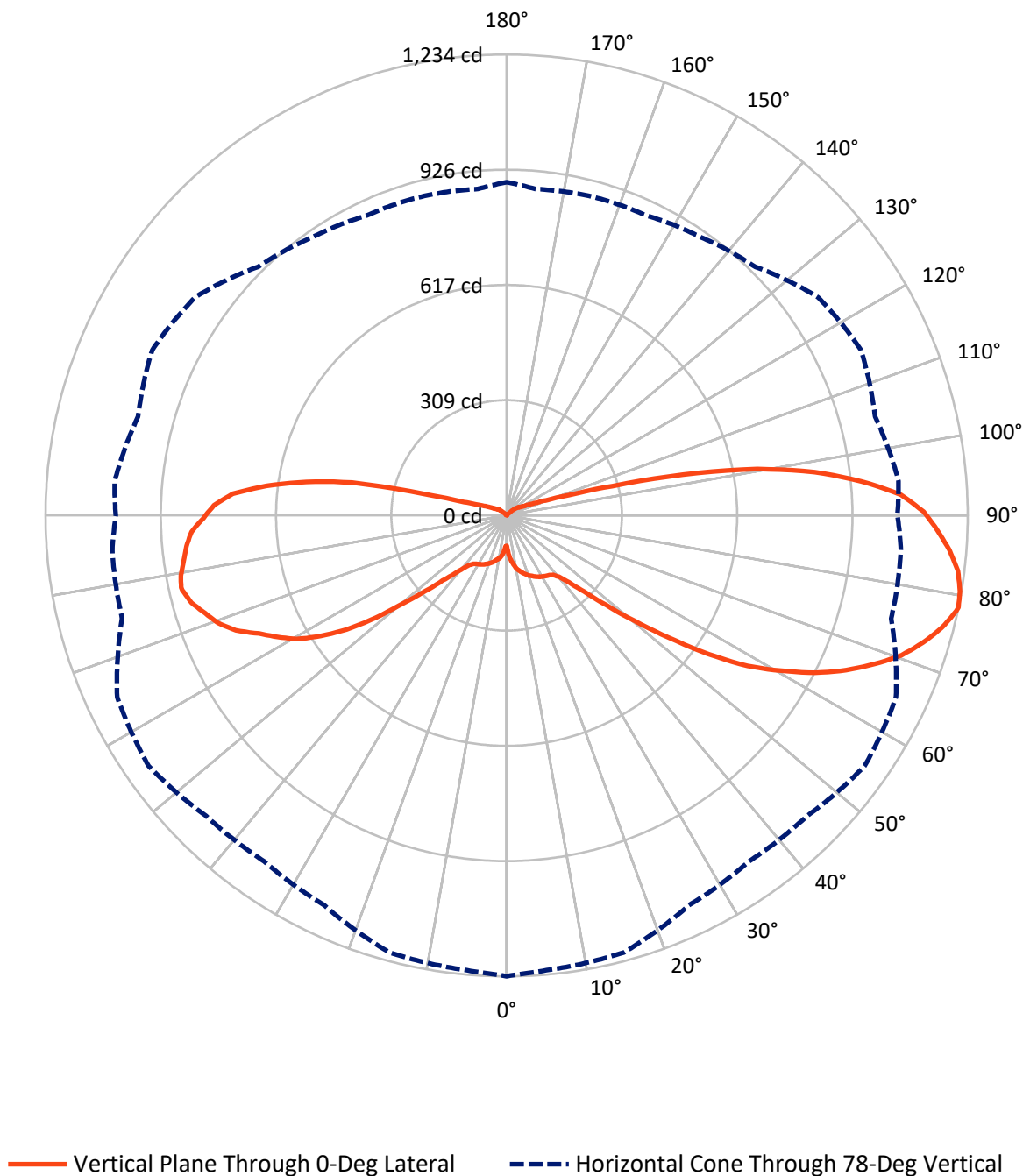


Based on 10 foot mounting height. Maximum calculated value = 1.4 fc
 Type I - Short - Non-Cutoff

REPORT NUMBER: P314591

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

Luminous Intensity Polar Plot



REPORT NUMBER: P314591

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

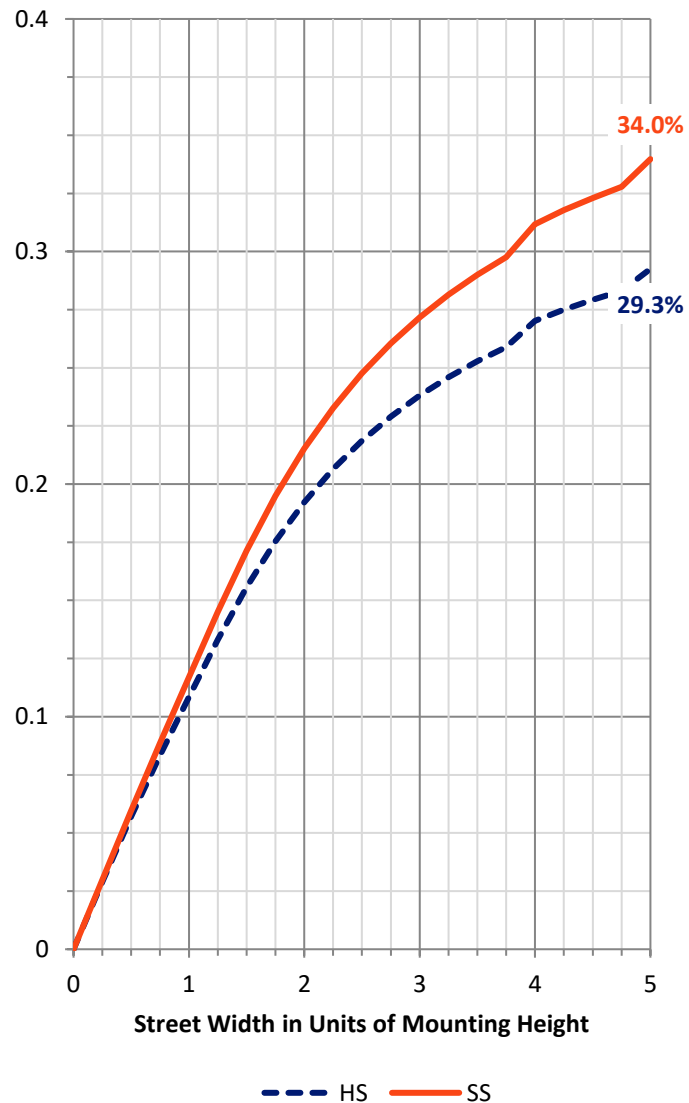
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1850.0	616.2	2466.2
	% Fixture	34.5	11.5	46.0
Street Side	Lumens	2183.6	710.1	2893.8
	% Fixture	40.7	13.2	54.0
Total	Lumens	4033.7	1326.3	5360.0
	% Fixture	75.3	24.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.0	0.2
10°-20°	40.6	0.8
20°-30°	76.1	1.4
30°-40°	113.9	2.1
40°-50°	223.4	4.2
50°-60°	534.6	10.0
60°-70°	851.0	15.9
70°-80°	1078.8	20.1
80°-90°	1104.3	20.6
90°-100°	899.4	16.8
100°-110°	324.8	6.1
110°-120°	66.3	1.2
120°-130°	29.8	0.6
130°-140°	6.0	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°	4033.7	75.3
0°-180°	5360.0	100.0

Coefficient of Utilization



REPORT NUMBER: P314591

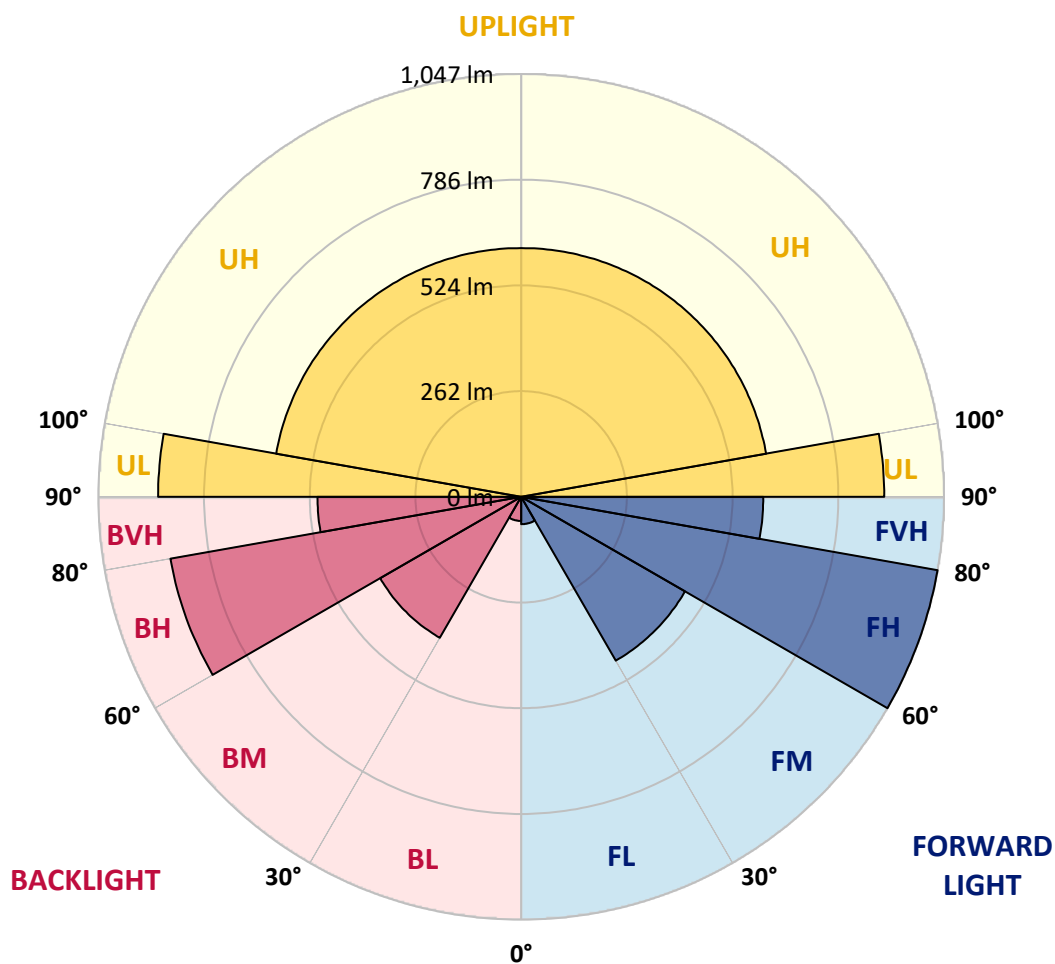
CATALOG NUMBER: MPW-A5-D-U-SYM

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	67.9	1.3			
FM	(30°-60°)	468.7	8.7			
FH	(60°-80°)	1047.5	19.5			G1/1800
FVH	(80°-90°)	599.6	11.2			G4/750
BL	(0°-30°)	59.8	1.1	B0/110		
BM	(30°-60°)	403.3	7.5	B1/1000		
BH	(60°-80°)	882.3	16.5	B2/1000		G2/1000
BVH	(80°-90°)	504.7	9.4			G4/750
UL	(90°-100°)	899.4	16.8		U4/1000	
UH	(100°-180°)	616.2	11.5		U4/1000	

BUG Rating: B2-U4-G4

Type I Short





REPORT NUMBER: P314591

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

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
2.5°	104.2	103.4	102.6	101.0	101.8	101.0	99.5	97.2	94.8	92.5	90.9
5°	120.5	119.7	119.7	119.7	119.7	119.7	118.9	116.6	113.5	110.4	106.5
7.5°	132.9	132.1	132.1	132.9	132.9	132.1	130.6	129.0	126.7	125.1	122.0
10°	144.6	143.8	143.8	143.8	143.0	141.5	139.9	137.6	134.5	132.9	130.6
12.5°	152.3	151.6	151.6	150.8	150.0	148.5	145.3	142.2	140.7	138.4	136.0
15°	159.3	158.6	158.6	157.0	156.2	154.7	151.6	149.2	146.9	145.3	143.8
17.5°	165.6	165.6	164.8	163.2	162.4	160.9	158.6	155.5	153.1	151.6	149.2
20°	171.8	171.0	171.0	169.4	167.9	166.3	164.0	161.7	160.1	157.8	155.5
22.5°	176.4	176.4	175.7	174.9	173.3	172.6	169.4	167.9	165.6	164.0	161.7
25°	181.9	181.9	181.9	180.3	178.8	178.0	174.9	173.3	171.8	169.4	166.3
27.5°	186.5	185.8	186.5	185.0	182.7	181.9	178.8	176.4	174.9	173.3	170.2
30°	189.7	189.7	188.9	188.1	185.8	184.2	181.9	179.5	178.0	175.7	173.3
32.5°	193.5	192.0	193.5	190.4	188.9	186.5	184.2	181.1	179.5	177.2	174.9
35°	196.6	195.9	195.9	195.1	192.0	190.4	187.3	185.0	182.7	180.3	178.0
37.5°	202.1	202.1	202.1	200.5	199.0	199.8	197.4	194.3	192.0	188.9	185.0
40°	216.1	216.1	216.1	216.1	215.3	217.6	216.9	216.1	215.3	210.6	204.4
42.5°	244.8	245.6	244.8	244.8	245.6	250.3	251.1	252.6	250.3	243.3	234.7
45°	291.5	293.0	291.5	293.8	295.4	301.6	300.8	302.4	299.2	293.0	279.0
47.5°	359.1	361.4	362.2	357.5	358.3	364.5	368.4	370.0	366.9	352.9	340.4
50°	443.8	446.1	446.1	442.3	438.4	446.1	451.6	454.7	456.2	432.9	418.9
52.5°	543.3	546.4	545.6	541.0	533.2	549.5	554.2	569.0	565.1	530.1	514.5
55°	656.0	659.1	658.3	649.0	636.6	643.6	657.6	674.7	670.0	627.2	616.4
57.5°	760.9	762.5	762.5	750.8	736.1	731.4	740.7	760.9	753.2	703.4	694.1
60°	844.9	846.4	847.2	829.3	811.5	801.3	809.1	831.7	823.9	766.4	757.0
62.5°	928.0	921.8	915.6	900.8	876.0	864.3	865.9	895.4	879.9	816.9	809.9
65°	999.5	997.2	982.4	966.9	939.7	926.5	926.5	957.6	942.0	875.2	865.9
67.5°	1062.5	1062.5	1045.4	1030.6	994.1	978.6	975.5	1012.8	993.3	924.9	913.3
70°	1121.6	1120.0	1100.6	1090.5	1045.4	1022.9	1026.8	1064.8	1047.7	975.5	966.9
72.5°	1165.1	1165.1	1151.1	1141.8	1086.6	1065.6	1067.2	1107.6	1088.2	1012.0	1000.3
75°	1203.2	1200.1	1192.3	1183.8	1126.2	1102.1	1106.0	1145.7	1125.5	1048.5	1043.9
77.5°	1230.4	1228.1	1221.1	1211.7	1148.8	1127.0	1133.2	1169.0	1151.1	1063.3	1057.1
78°	1234.3	1230.4	1222.6	1211.7	1152.7	1130.9	1137.9	1169.8	1150.3	1065.6	1059.4
80°	1230.4	1227.3	1218.7	1207.1	1155.0	1129.4	1133.2	1161.2	1141.0	1061.7	1053.2
82.5°	1217.2	1214.8	1207.1	1193.1	1141.0	1119.2	1123.1	1149.6	1131.7	1049.3	1053.2
85°	1189.2	1183.8	1177.5	1163.5	1118.5	1093.6	1096.7	1122.4	1102.1	1021.3	1019.0
87.5°	1154.2	1150.3	1145.7	1131.7	1089.7	1067.9	1068.7	1094.4	1074.9	999.5	999.5
90°	1116.9	1112.3	1108.4	1095.2	1054.0	1033.0	1033.7	1062.5	1047.0	977.8	981.7
92.5°	1057.1	1053.2	1049.3	1034.5	997.2	977.0	980.1	1008.1	992.6	924.9	929.6
95°	953.7	950.6	951.4	940.5	907.1	888.4	889.2	917.2	902.4	843.3	855.8
97.5°	832.4	830.9	826.2	822.3	792.8	781.1	778.0	808.3	801.3	750.1	763.3
100°	682.4	679.3	673.9	672.3	653.7	649.0	651.3	680.1	676.2	631.9	645.1
102.5°	483.5	482.7	487.3	478.8	471.0	472.6	481.9	506.0	502.1	464.0	472.6
105°	293.8	294.6	290.7	288.4	282.1	281.4	282.9	289.9	281.4	255.7	257.3
107.5°	174.9	175.7	176.4	171.0	166.3	164.8	164.0	166.3	161.7	151.6	151.6



REPORT NUMBER: P314591

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

CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	118.9	118.9	119.7	116.6	112.7	112.7	111.9	114.3	112.7	107.3	107.3
112.5°	87.1	87.8	87.1	85.5	83.2	83.9	83.9	85.5	85.5	82.4	82.4
115°	67.6	67.6	67.6	66.1	64.5	64.5	65.3	66.8	67.6	66.1	66.1
117.5°	53.6	53.6	53.6	52.9	51.3	51.3	52.1	52.9	54.4	53.6	53.6
120°	45.1	45.1	45.1	44.3	43.5	43.5	44.3	45.1	45.9	45.1	45.1
122.5°	40.4	40.4	40.4	39.6	38.9	38.9	38.9	39.6	40.4	40.4	40.4
125°	36.5	36.5	36.5	36.5	35.0	34.2	35.0	35.8	36.5	37.3	37.3
127.5°	30.3	30.3	31.1	30.3	29.5	29.5	30.3	30.3	31.9	32.6	32.6
130°	22.5	22.5	23.3	23.3	22.5	21.8	22.5	23.3	24.9	25.6	24.9
132.5°	14.0	14.8	14.8	14.8	14.0	14.0	14.8	15.5	17.1	17.9	17.1
135°	1.6	1.6	2.3	1.6	2.3	2.3	2.3	3.1	4.7	5.4	5.4
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	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.8	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.8	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.8	0.8	0.8	0.0	0.8	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



REPORT NUMBER: P314591

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
2.5°	90.2	90.9	89.4	88.6	87.8	87.1	86.3	84.7	83.9	83.9	83.2
5°	105.7	104.9	103.4	101.0	100.3	99.5	98.7	97.9	97.9	97.9	97.9
7.5°	120.5	118.9	115.0	112.7	111.9	112.7	111.1	110.4	109.6	108.8	108.8
10°	129.0	127.5	125.1	122.8	121.3	121.3	120.5	118.9	117.4	116.6	116.6
12.5°	134.5	132.9	131.4	129.0	127.5	126.7	125.9	123.6	121.3	121.3	120.5
15°	142.2	140.7	138.4	136.0	134.5	132.9	132.1	129.0	126.7	125.9	125.9
17.5°	148.5	146.9	145.3	143.0	140.7	138.4	136.8	134.5	132.1	131.4	131.4
20°	154.7	153.1	150.8	149.2	146.1	143.8	142.2	139.9	137.6	136.8	136.0
22.5°	160.9	159.3	157.0	155.5	152.3	149.2	146.9	144.6	141.5	140.7	139.9
25°	165.6	164.0	162.4	160.1	157.0	153.9	150.8	147.7	146.1	144.6	143.8
27.5°	169.4	168.7	167.1	164.8	160.9	157.8	154.7	151.6	149.2	147.7	147.7
30°	172.6	171.8	170.2	167.9	164.8	161.7	158.6	155.5	152.3	150.8	150.0
32.5°	174.9	173.3	172.6	170.2	167.9	164.8	161.7	158.6	155.5	153.9	153.1
35°	177.2	176.4	174.9	173.3	170.2	167.9	164.8	162.4	159.3	158.6	157.8
37.5°	184.2	183.4	181.9	178.8	176.4	174.1	171.8	169.4	167.9	167.1	166.3
40°	204.4	201.3	198.2	195.1	190.4	187.3	185.0	184.2	183.4	183.4	184.2
42.5°	231.6	230.1	227.7	222.3	216.1	211.4	209.1	209.9	209.1	209.1	210.6
45°	275.1	272.0	268.9	264.3	253.4	245.6	243.3	241.7	243.3	242.5	244.1
47.5°	331.9	334.2	323.3	317.9	306.2	294.6	293.0	288.4	291.5	293.0	295.4
50°	410.4	412.7	402.6	391.7	378.5	359.1	356.0	350.5	352.9	359.9	359.1
52.5°	509.9	510.7	500.6	489.7	473.3	446.1	442.3	436.0	433.7	443.8	444.6
55°	613.3	617.1	601.6	593.8	577.5	539.4	527.0	516.9	517.7	528.5	526.2
57.5°	694.1	695.6	681.7	677.8	659.9	613.3	599.3	578.3	585.3	593.0	593.0
60°	755.5	757.0	739.9	742.3	728.3	668.4	656.0	632.7	638.1	643.6	652.1
62.5°	808.3	813.8	790.5	795.1	782.7	716.6	698.8	680.9	687.1	687.9	693.3
65°	863.5	864.3	840.2	846.4	830.1	765.6	737.6	720.5	729.1	727.5	734.5
67.5°	910.9	912.5	886.8	900.8	881.4	813.0	785.8	766.4	773.4	767.9	787.4
70°	959.9	964.6	928.0	941.3	924.9	851.9	821.6	802.9	805.2	799.0	823.9
72.5°	990.2	1000.3	970.8	987.1	963.8	887.6	859.6	843.3	837.9	830.9	848.0
75°	1025.2	1035.3	995.7	1019.0	998.8	921.8	892.3	877.5	865.9	862.0	875.2
77.5°	1044.6	1055.5	1026.8	1043.9	1017.4	938.9	905.5	883.0	879.9	876.0	890.7
78°	1046.2	1053.2	1021.3	1047.0	1018.2	941.3	908.6	886.1	883.7	877.5	892.3
80°	1040.7	1047.0	1017.4	1040.7	1013.5	936.6	905.5	876.0	877.5	869.0	886.8
82.5°	1037.6	1044.6	1015.1	1030.6	1011.2	930.4	904.7	869.7	869.7	855.8	872.9
85°	1004.2	1012.8	988.7	1007.3	987.1	910.2	888.4	851.1	851.1	840.2	861.2
87.5°	986.3	994.9	965.3	991.0	966.1	886.8	869.7	838.7	836.3	824.7	844.9
90°	964.6	974.7	944.4	956.8	937.4	862.0	843.3	808.3	805.2	792.8	811.5
92.5°	912.5	921.8	893.1	911.7	893.8	826.2	807.6	779.6	774.1	765.6	783.5
95°	841.8	852.6	830.1	849.5	830.9	770.3	756.3	735.3	729.8	724.4	735.3
97.5°	750.1	754.7	738.4	756.3	739.9	687.1	675.4	654.4	645.1	643.6	647.5
100°	633.5	636.6	617.9	631.9	620.2	572.8	566.6	556.5	544.1	542.5	544.1
102.5°	470.2	457.0	442.3	436.8	435.3	399.5	403.4	408.8	403.4	409.6	422.8
105°	254.9	247.2	241.7	237.1	240.2	220.0	223.8	224.6	220.0	223.1	227.7
107.5°	150.0	147.7	145.3	143.0	138.4	131.4	129.8	124.4	124.4	124.4	125.9



REPORT NUMBER: P314591

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	106.5	105.7	103.4	102.6	98.7	94.0	93.3	90.9	89.4	89.4	90.9
112.5°	81.6	80.8	79.3	78.5	76.9	71.5	70.7	70.0	70.0	70.0	70.7
115°	65.3	64.5	63.7	62.2	59.8	56.0	56.7	55.2	55.2	56.0	56.0
117.5°	52.9	52.1	52.1	50.5	48.2	45.9	45.9	45.1	45.1	45.1	45.9
120°	45.1	44.3	43.5	42.7	40.4	38.1	38.1	37.3	38.1	38.1	38.1
122.5°	40.4	39.6	38.9	38.1	35.8	33.4	33.4	32.6	33.4	33.4	33.4
125°	36.5	35.8	35.0	33.4	31.1	29.5	29.5	29.5	29.5	29.5	29.5
127.5°	31.9	31.1	29.5	28.0	26.4	24.9	24.9	24.9	25.6	25.6	25.6
130°	24.9	23.3	22.5	21.0	19.4	17.9	18.7	19.4	20.2	20.2	20.2
132.5°	17.1	16.3	14.8	13.2	11.7	11.7	11.7	13.2	14.0	14.0	14.0
135°	4.7	4.7	4.7	3.9	3.9	3.9	4.7	6.2	6.2	7.0	7.0
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	0.8	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	0.8	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)