

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: P314609

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314609
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-A5-D-U-ASYM
Description: WOODBRIDGE POST TOP LUMINAIRE
(1) 70 CRI, 4000K LIGHT ENGINE. ASYMMETRIC DISTRIBUTION.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5194 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.58')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U4 - G4

Input Watts (W): 51.2
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



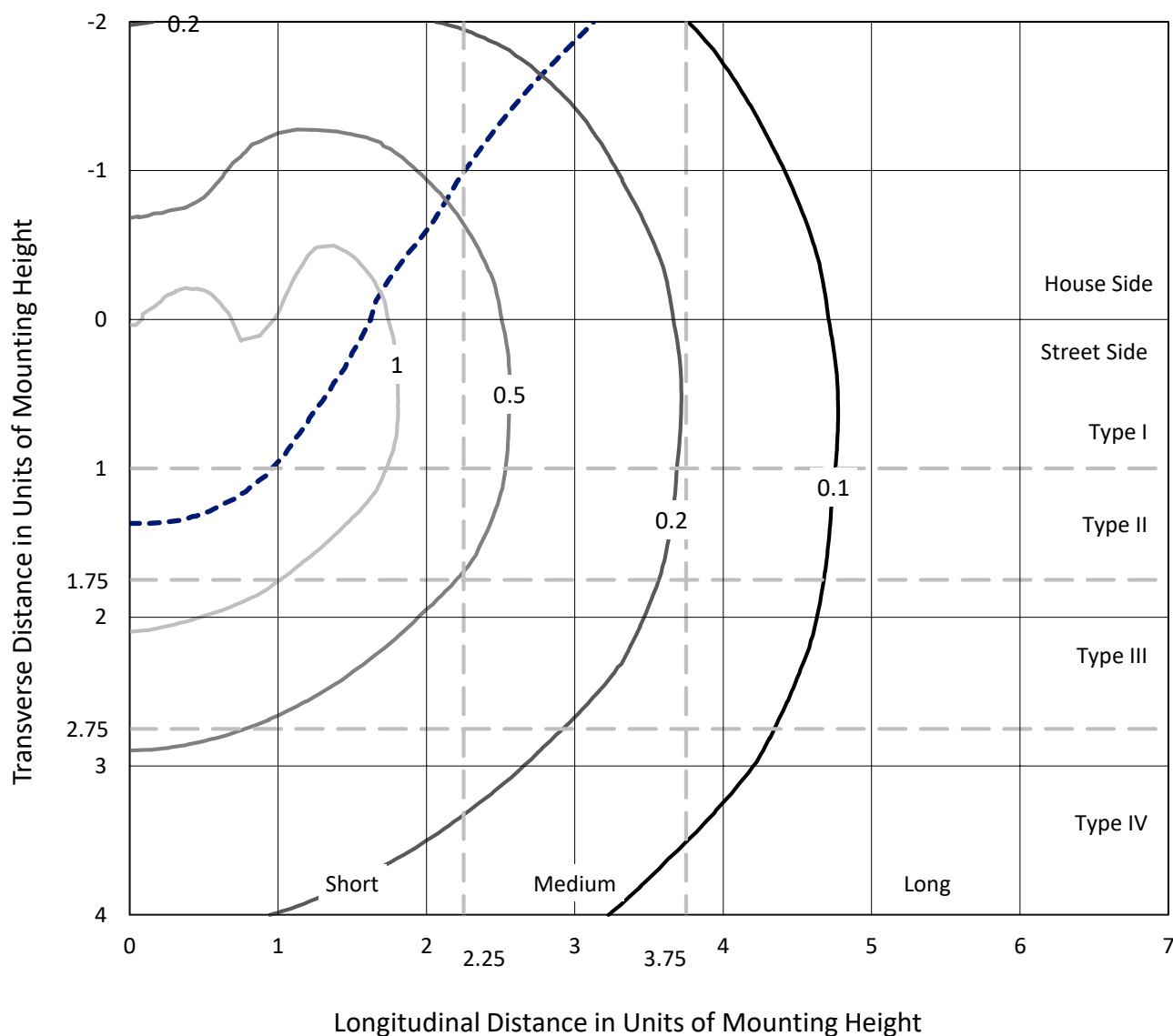
REPORT NUMBER: P314609

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

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

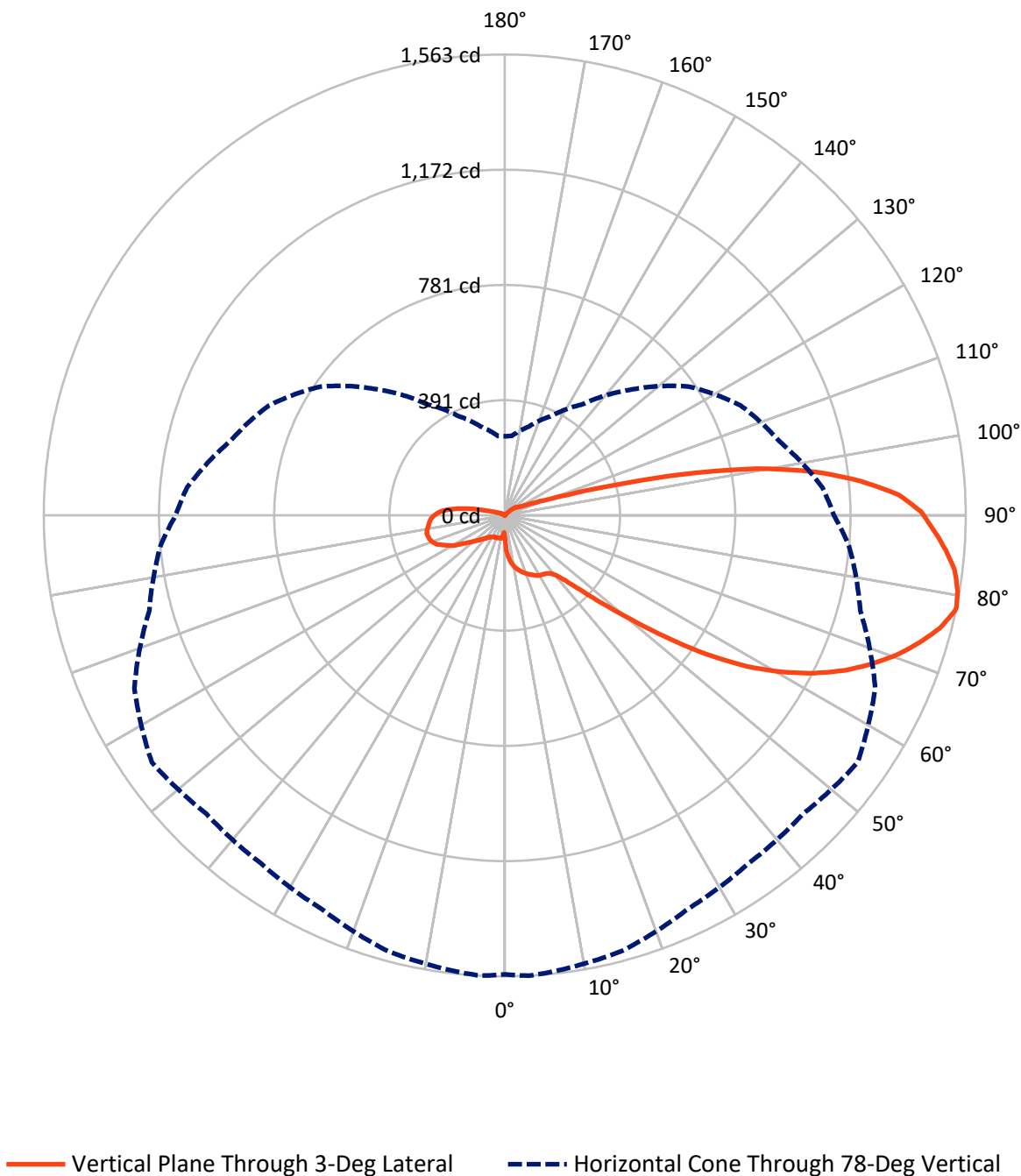


Based on 10 foot mounting height. Maximum calculated value = 1.8 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P314609

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

Luminous Intensity Polar Plot



REPORT NUMBER: P314609

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

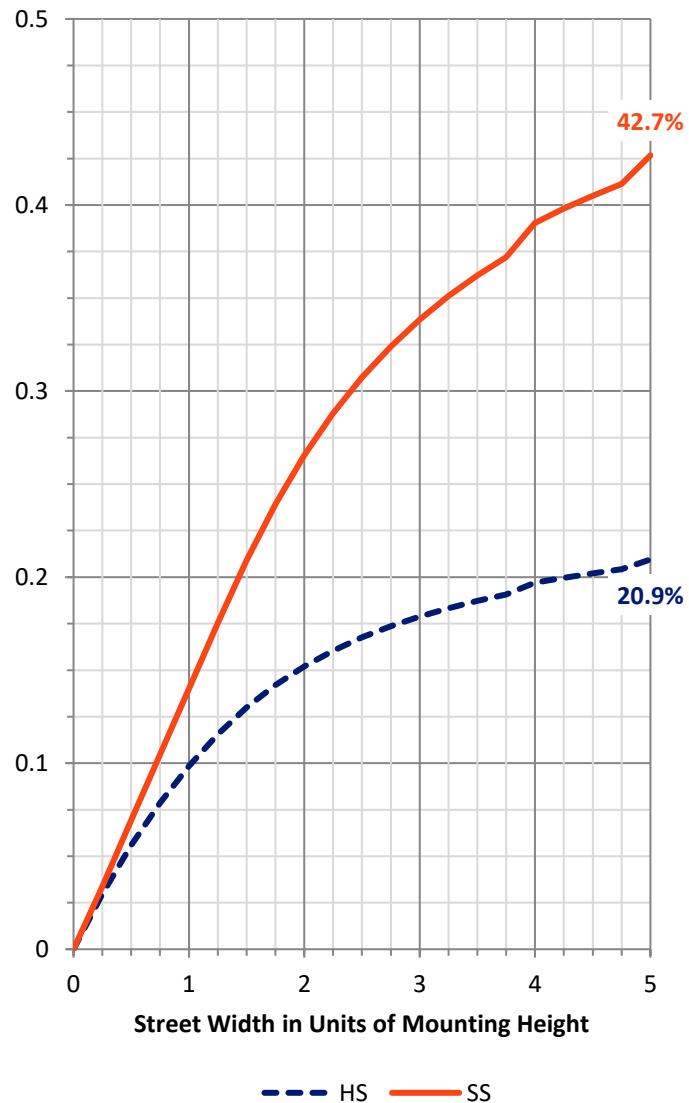
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1240.7	400.0	1640.7
	% Fixture	23.9	7.7	31.6
Street Side	Lumens	2672.5	880.7	3553.2
	% Fixture	51.5	17.0	68.4
Total	Lumens	3913.2	1280.8	5194.0
	% Fixture	75.3	24.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.6	0.2
10°-20°	39.5	0.8
20°-30°	74.1	1.4
30°-40°	110.2	2.1
40°-50°	215.6	4.2
50°-60°	515.3	9.9
60°-70°	826.0	15.9
70°-80°	1047.8	20.2
80°-90°	1074.0	20.7
90°-100°	868.6	16.7
100°-110°	314.8	6.1
110°-120°	63.8	1.2
120°-130°	28.2	0.5
130°-140°	5.3	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°	3913.2	75.3
0°-180°	5194.0	100.0

Coefficient of Utilization



REPORT NUMBER: P314609

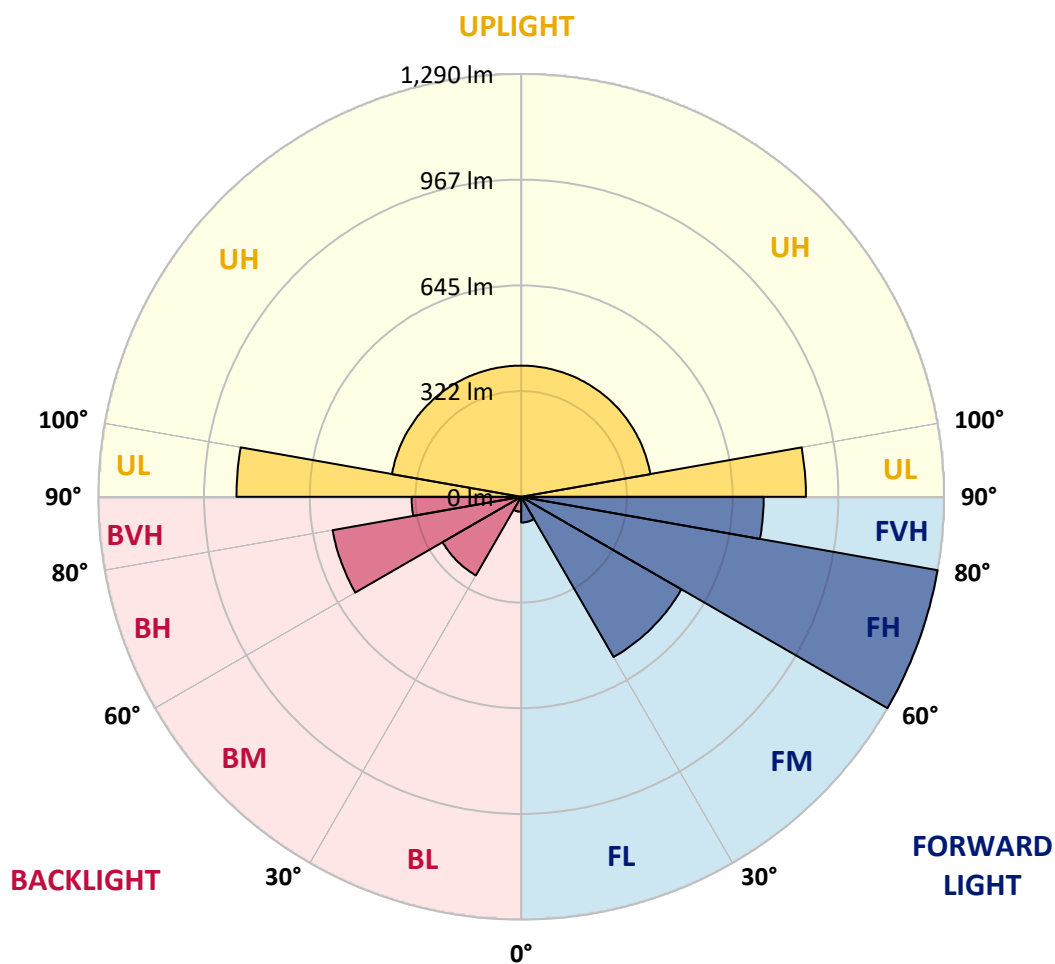
CATALOG NUMBER: MPW-A5-D-U-ASYM

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	78.6	1.5			
FM	(30°-60°)	564.4	10.9			
FH	(60°-80°)	1289.8	24.8			G1/1800
FVH	(80°-90°)	739.7	14.2			G4/750
BL	(0°-30°)	45.6	0.9	B0/110		
BM	(30°-60°)	276.7	5.3	B1/1000		
BH	(60°-80°)	584.0	11.2	B2/1000		G2/1000
BVH	(80°-90°)	334.4	6.4			G3/500
UL	(90°-100°)	868.6	16.7		U4/1000	
UH	(100°-180°)	400.0	7.7		U3/500	

BUG Rating: B2-U4-G4

Type IV Short





REPORT NUMBER: P314609

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

CANDELA DISTRIBUTION (FULL):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
2.5°	124.5	122.1	122.1	120.6	119.0	114.3	111.9	107.2	101.7	95.4	89.8
5°	146.6	145.0	145.0	144.2	143.4	139.5	135.5	129.2	121.4	113.5	104.0
7.5°	163.1	163.1	162.3	161.5	159.2	154.5	149.7	143.4	135.5	128.5	120.6
10°	176.5	176.5	176.5	174.2	171.0	167.1	160.8	153.7	145.0	137.1	128.5
12.5°	186.0	186.0	186.0	182.8	179.7	175.7	168.6	161.5	152.9	145.0	136.3
15°	196.2	195.4	196.2	190.7	187.6	183.6	176.5	170.2	161.5	154.5	145.8
17.5°	203.3	203.3	202.5	200.2	196.2	191.5	184.4	178.1	170.2	162.3	153.7
20°	210.4	210.4	209.6	207.3	204.1	199.4	193.1	185.2	178.1	170.2	160.8
22.5°	216.7	217.5	216.7	214.3	211.2	207.3	201.7	193.9	186.0	177.3	167.9
25°	223.8	223.8	224.6	222.2	218.3	214.3	208.8	201.7	193.9	184.4	173.4
27.5°	230.9	230.9	230.9	228.5	223.8	219.9	213.6	207.3	198.6	188.3	177.3
30°	234.8	235.6	234.8	233.3	228.5	223.8	217.5	210.4	201.7	190.7	179.7
32.5°	238.0	238.0	238.0	235.6	230.9	226.2	219.9	211.2	202.5	192.3	180.5
35°	241.9	241.9	241.1	238.8	234.8	230.1	223.0	215.1	205.7	195.4	182.8
37.5°	249.0	249.0	248.2	245.9	241.9	238.8	232.5	224.6	215.9	205.7	190.7
40°	267.1	266.4	265.6	264.8	261.6	261.6	256.9	249.8	239.6	230.1	211.2
42.5°	304.2	301.8	301.8	301.8	300.2	302.6	301.0	293.9	283.7	271.1	248.2
45°	365.7	360.9	360.9	359.3	362.5	363.3	363.3	356.2	343.6	327.8	300.2
47.5°	453.1	445.2	446.8	441.3	438.9	446.8	448.4	436.6	429.5	403.5	365.7
50°	562.7	552.4	557.1	548.5	539.0	549.3	554.0	546.9	536.7	502.8	459.4
52.5°	688.7	686.4	679.3	668.3	669.0	674.6	678.5	691.9	671.4	628.1	575.3
55°	834.5	832.2	829.8	806.2	807.0	807.0	814.0	827.4	810.1	746.3	694.3
57.5°	971.7	964.6	966.1	937.8	930.7	913.3	923.6	940.1	909.4	836.1	778.6
60°	1082.0	1076.5	1072.5	1048.1	1036.3	1012.6	1009.5	1030.0	995.3	907.8	843.2
62.5°	1179.7	1178.1	1172.6	1137.9	1128.5	1094.6	1088.3	1108.0	1063.9	966.1	900.7
65°	1272.7	1266.4	1249.8	1221.5	1208.9	1168.7	1167.9	1189.9	1141.9	1033.9	959.8
67.5°	1346.8	1342.8	1341.2	1297.1	1272.7	1236.4	1230.1	1260.1	1204.1	1080.4	1007.1
70°	1413.0	1413.0	1408.2	1372.8	1335.7	1303.4	1294.8	1330.2	1266.4	1145.0	1068.6
72.5°	1473.6	1471.3	1468.9	1437.4	1390.1	1354.6	1343.6	1384.6	1312.1	1181.3	1107.2
75°	1517.8	1524.1	1518.6	1490.2	1438.2	1401.1	1391.7	1430.3	1355.4	1225.4	1149.0
77.5°	1550.9	1559.5	1554.0	1525.7	1467.3	1433.5	1424.8	1457.9	1382.2	1245.1	1171.8
78°	1556.4	1562.7	1558.0	1529.6	1471.3	1440.5	1430.3	1460.2	1385.4	1247.5	1171.0
80°	1553.2	1556.4	1554.8	1531.2	1468.9	1439.8	1424.0	1453.2	1379.1	1238.8	1161.6
82.5°	1535.1	1537.5	1537.5	1517.0	1444.5	1424.8	1411.4	1443.7	1368.0	1232.5	1171.0
85°	1494.9	1499.6	1501.2	1486.2	1414.5	1394.8	1379.1	1409.8	1328.6	1198.6	1130.8
87.5°	1456.3	1455.5	1455.5	1443.7	1375.9	1361.0	1346.8	1375.1	1300.3	1173.4	1113.5
90°	1410.6	1411.4	1413.7	1400.4	1332.6	1319.2	1304.2	1338.1	1264.8	1152.1	1097.0
92.5°	1334.9	1337.3	1336.5	1325.5	1263.2	1252.2	1238.8	1268.7	1201.0	1089.9	1038.6
95°	1207.3	1212.0	1210.4	1202.6	1154.5	1136.4	1123.7	1157.6	1095.4	996.1	954.3
97.5°	1055.2	1061.5	1060.7	1052.0	1012.6	1005.5	990.6	1024.5	972.4	888.1	852.7
100°	859.0	870.0	865.3	859.8	839.3	836.1	831.4	866.1	826.7	759.7	728.2
102.5°	606.8	617.8	613.1	612.3	603.6	615.5	614.7	648.6	621.8	570.5	544.5
105°	371.2	376.7	372.7	368.0	360.1	368.0	359.3	366.4	347.5	311.3	293.9
107.5°	221.4	225.4	223.0	218.3	212.8	213.6	208.0	208.8	197.8	179.7	170.2



REPORT NUMBER: P314609

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

CANDELA DISTRIBUTION (continued):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	148.9	150.5	149.7	145.0	141.8	142.6	140.3	140.3	136.3	126.9	120.6
112.5°	109.5	110.3	111.1	106.4	104.8	104.8	104.8	104.8	102.4	96.9	92.2
115°	84.3	85.1	85.1	82.0	80.4	81.2	81.2	82.0	81.2	77.2	74.1
117.5°	67.8	67.8	67.8	65.4	63.8	64.6	64.6	65.4	65.4	63.0	60.7
120°	56.7	57.5	57.5	56.0	54.4	54.4	54.4	54.4	55.2	53.6	51.2
122.5°	51.2	51.2	51.2	49.6	48.1	47.3	48.1	48.1	48.1	47.3	45.7
125°	46.5	46.5	46.5	44.9	43.3	42.6	43.3	43.3	44.1	43.3	41.8
127.5°	39.4	40.2	40.2	38.6	36.2	36.2	37.0	37.8	38.6	38.6	37.0
130°	29.2	29.9	29.9	29.2	26.8	26.8	28.4	29.2	30.7	30.7	29.2
132.5°	19.7	18.9	18.9	18.1	16.5	17.3	18.1	19.7	21.3	21.3	20.5
135°	3.2	2.4	2.4	2.4	2.4	2.4	3.9	3.9	5.5	6.3	6.3
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	0.8	0.8	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.8	0.0	0.0	0.8	0.8	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.8	0.8	0.0	0.0	0.0	0.0	0.0
170°	0.8	0.8	0.8	0.0	0.8	0.8	0.0	0.8	0.8	0.0	0.0
172.5°	0.0	0.8	0.0	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
175°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0
177.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	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: P314609

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
2.5°	87.5	85.1	79.6	75.7	70.1	67.0	63.0	59.9	58.3	57.5	57.5
5°	100.9	96.9	89.8	85.1	78.8	74.9	71.7	69.3	67.8	67.8	67.8
7.5°	116.6	111.1	102.4	94.6	89.0	85.1	82.0	78.8	76.4	75.7	74.9
10°	124.5	120.6	112.7	105.6	97.7	92.2	86.7	82.7	79.6	78.8	78.0
12.5°	131.6	126.9	118.2	111.1	102.4	95.4	89.0	83.5	79.6	78.0	77.2
15°	141.1	135.5	126.1	116.6	108.0	99.3	92.2	85.1	80.4	78.8	78.0
17.5°	148.9	143.4	133.2	123.7	113.5	104.0	95.4	87.5	82.0	80.4	79.6
20°	156.0	149.7	138.7	129.2	117.4	107.2	96.9	89.0	82.7	80.4	80.4
22.5°	162.3	156.0	145.0	134.0	121.4	109.5	99.3	89.8	83.5	81.2	80.4
25°	167.9	161.5	149.7	137.9	124.5	111.9	100.9	91.4	84.3	81.2	80.4
27.5°	171.8	165.5	153.7	141.1	127.7	114.3	103.2	93.0	85.9	82.0	82.0
30°	174.2	168.6	156.0	143.4	130.0	116.6	104.8	94.6	87.5	83.5	83.5
32.5°	174.9	169.4	157.6	145.0	132.4	119.0	107.2	96.9	89.8	85.9	85.9
35°	176.5	171.0	160.0	147.4	134.8	122.1	110.3	100.1	93.0	89.8	89.0
37.5°	183.6	178.1	165.5	152.1	138.7	126.1	114.3	104.0	96.9	93.8	93.8
40°	204.1	196.2	179.7	164.7	148.2	134.0	120.6	109.5	102.4	100.1	99.3
42.5°	237.2	229.3	208.8	187.6	167.1	148.9	130.8	117.4	109.5	106.4	106.4
45°	287.6	277.4	249.8	225.4	196.2	171.8	145.8	128.5	119.0	115.1	114.3
47.5°	353.0	340.4	307.3	270.3	234.8	203.3	167.1	142.6	130.0	124.5	123.7
50°	440.5	427.9	383.0	331.8	288.4	240.4	193.1	160.8	142.6	134.8	133.2
52.5°	551.6	538.2	479.1	412.9	357.0	290.8	223.8	180.5	157.6	147.4	145.8
55°	666.7	651.7	579.2	496.5	436.6	347.5	259.3	208.0	177.3	162.3	159.2
57.5°	747.9	731.3	650.9	558.7	501.2	391.7	294.7	234.8	200.2	179.7	178.1
60°	807.0	789.6	703.7	611.5	545.3	424.8	326.2	256.9	221.4	201.7	201.0
62.5°	859.8	845.6	751.0	658.8	580.0	452.3	354.6	283.7	241.9	219.1	212.8
65°	916.5	893.6	792.8	700.6	618.6	483.9	372.0	308.1	260.1	234.8	229.3
67.5°	964.6	940.1	844.8	751.0	655.7	509.1	394.8	330.2	282.1	250.6	249.0
70°	1024.5	996.9	882.6	789.6	690.3	541.4	417.7	343.6	294.7	264.0	254.5
72.5°	1059.1	1030.0	920.4	829.0	715.5	568.2	433.4	349.9	303.4	270.3	260.8
75°	1098.5	1067.0	940.1	858.2	740.8	588.7	447.6	359.3	309.7	272.7	264.0
77.5°	1115.9	1082.8	970.9	878.7	762.8	601.3	457.9	368.0	310.5	272.7	270.3
78°	1115.9	1081.2	965.4	881.8	761.2	602.1	459.4	371.2	311.3	270.3	267.9
80°	1108.8	1074.1	956.7	880.2	755.7	600.5	461.0	376.7	308.1	267.1	268.7
82.5°	1110.4	1080.4	953.5	875.5	753.4	599.7	457.1	371.2	302.6	260.8	263.2
85°	1069.4	1041.0	927.5	852.7	732.1	591.8	451.5	364.1	299.5	256.1	258.5
87.5°	1057.6	1028.4	907.0	837.7	713.2	576.1	442.9	358.6	292.4	250.6	253.7
90°	1035.5	1007.1	882.6	812.5	692.7	555.6	422.4	342.0	281.3	240.4	241.9
92.5°	978.7	952.7	834.5	768.3	655.7	530.4	401.9	324.7	265.6	228.5	228.5
95°	906.2	883.4	772.3	714.0	607.6	487.8	369.6	298.7	242.7	209.6	208.0
97.5°	806.2	784.9	688.0	633.6	542.2	432.6	323.1	259.3	209.6	177.3	177.3
100°	676.9	668.3	579.2	531.1	450.8	353.8	265.6	208.0	169.4	141.8	139.5
102.5°	505.9	487.8	415.3	375.9	318.4	245.9	182.0	144.2	121.4	102.4	98.5
105°	264.0	267.9	223.0	204.9	175.7	141.8	110.3	89.8	76.4	67.0	63.8
107.5°	157.6	153.7	134.8	122.9	107.2	87.5	70.1	58.3	50.4	44.9	43.3



REPORT NUMBER: P314609

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	112.7	111.1	96.9	87.5	76.4	62.3	49.6	41.8	36.2	32.3	31.5
112.5°	86.7	85.1	74.9	67.0	57.5	46.5	37.0	30.7	26.8	23.6	23.6
115°	70.1	68.6	60.7	52.8	44.9	36.2	29.2	23.6	20.5	18.1	18.1
117.5°	57.5	56.0	48.9	43.3	36.2	29.2	22.9	18.9	15.8	14.2	14.2
120°	48.9	47.3	41.8	36.2	29.9	24.4	18.9	15.0	13.4	11.8	11.8
122.5°	44.1	41.8	37.0	31.5	26.0	20.5	15.8	12.6	11.0	9.5	9.5
125°	40.2	38.6	33.9	28.4	22.1	18.1	13.4	10.2	8.7	7.9	7.1
127.5°	35.5	33.9	29.2	23.6	18.1	14.2	10.2	7.9	5.5	4.7	4.7
130°	28.4	26.0	22.1	17.3	12.6	9.5	7.1	4.7	3.2	3.2	2.4
132.5°	19.7	18.1	15.0	11.0	7.1	4.7	3.2	2.4	0.8	0.8	0.8
135°	6.3	5.5	3.2	3.2	0.8	0.8	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)