

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: P314608

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314608
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-A4-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: 4167 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.58')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U4 - G4

Input Watts (W): 39.5
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

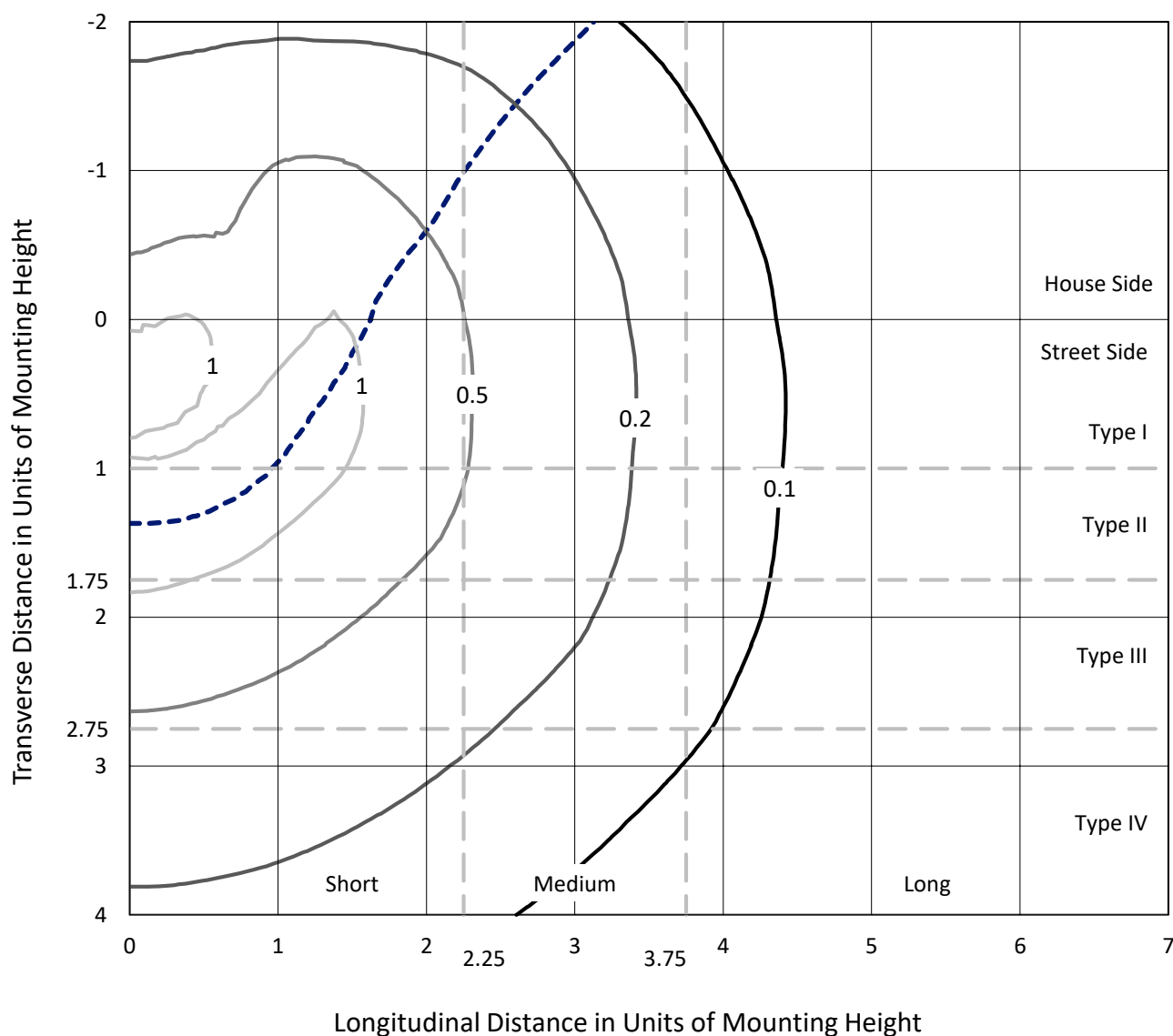


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

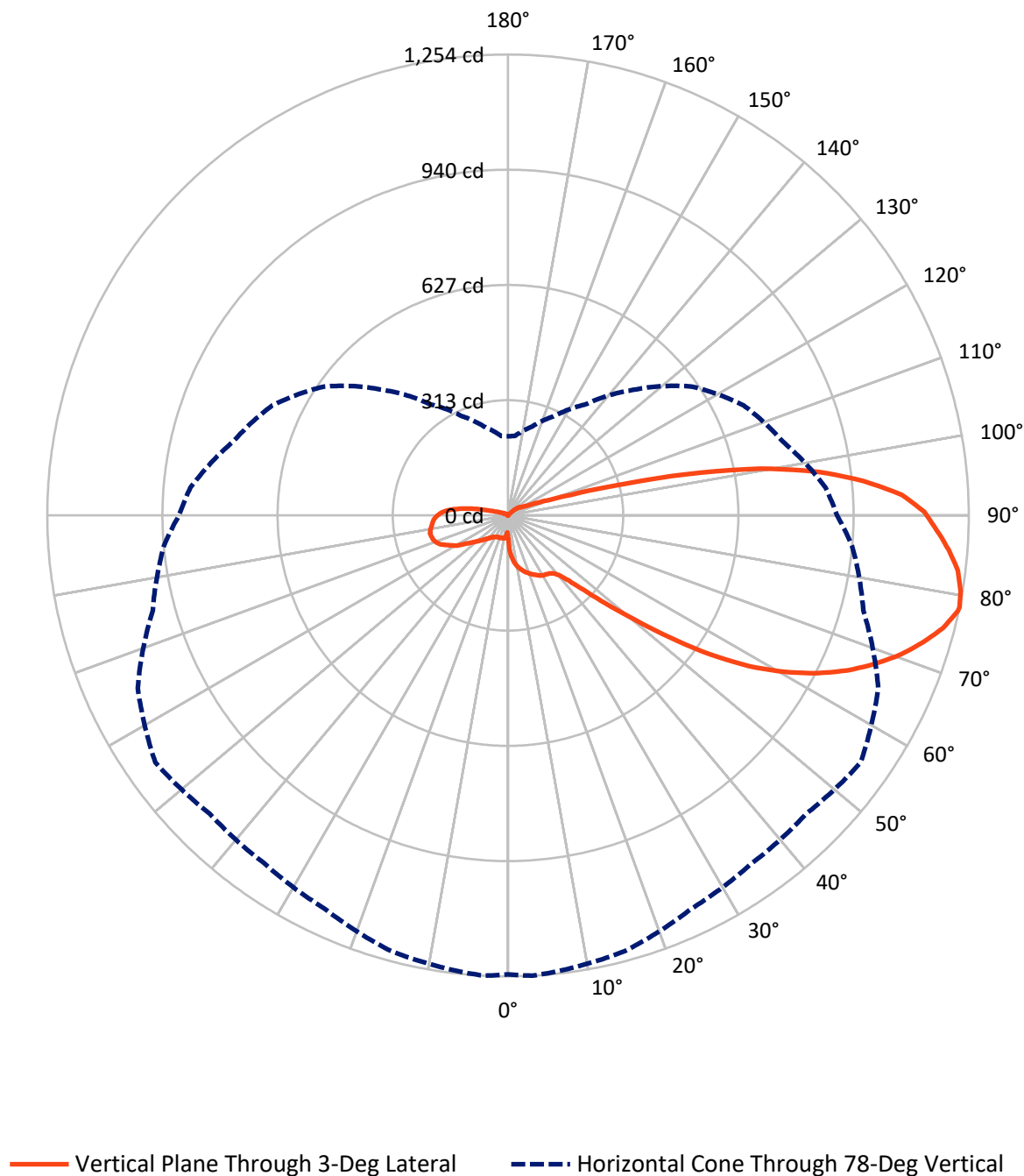


Based on 10 foot mounting height. Maximum calculated value = 1.4 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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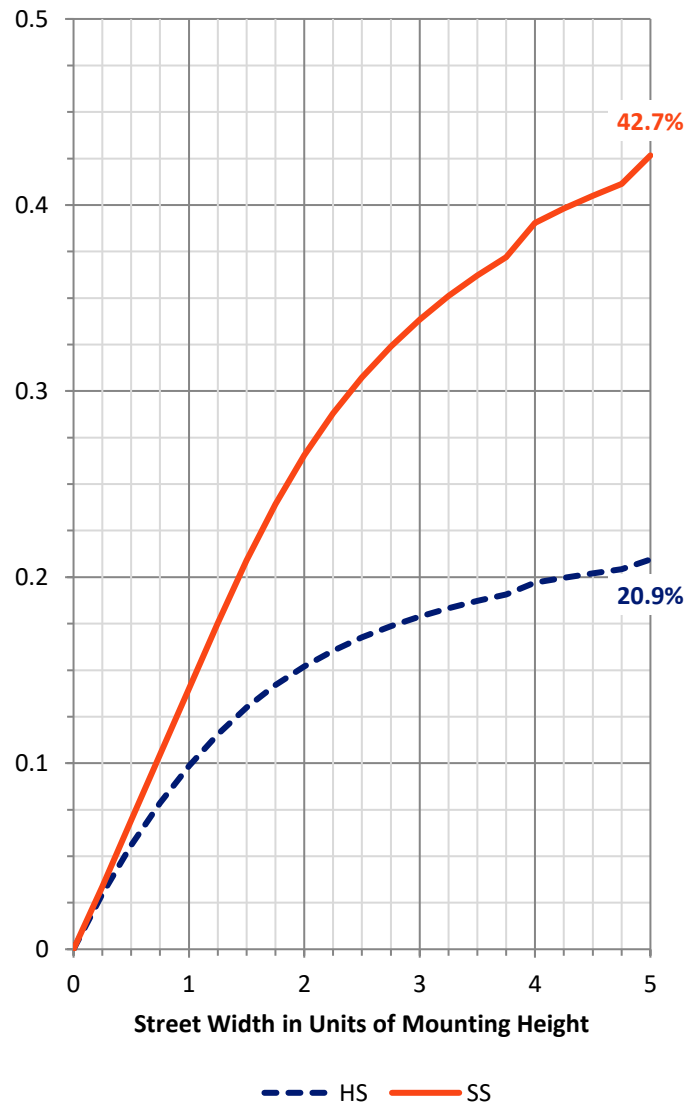
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	995.4	320.9	1316.3
	% Fixture	23.9	7.7	31.6
Street Side	Lumens	2144.1	706.6	2850.7
	% Fixture	51.5	17.0	68.4
Total	Lumens	3139.5	1027.5	4167.0
	% Fixture	75.3	24.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.5	0.2
10°-20°	31.7	0.8
20°-30°	59.4	1.4
30°-40°	88.4	2.1
40°-50°	173.0	4.2
50°-60°	413.4	9.9
60°-70°	662.7	15.9
70°-80°	840.6	20.2
80°-90°	861.7	20.7
90°-100°	696.9	16.7
100°-110°	252.6	6.1
110°-120°	51.2	1.2
120°-130°	22.6	0.5
130°-140°	4.2	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°	3139.5	75.3
0°-180°	4167.0	100.0

Coefficient of Utilization



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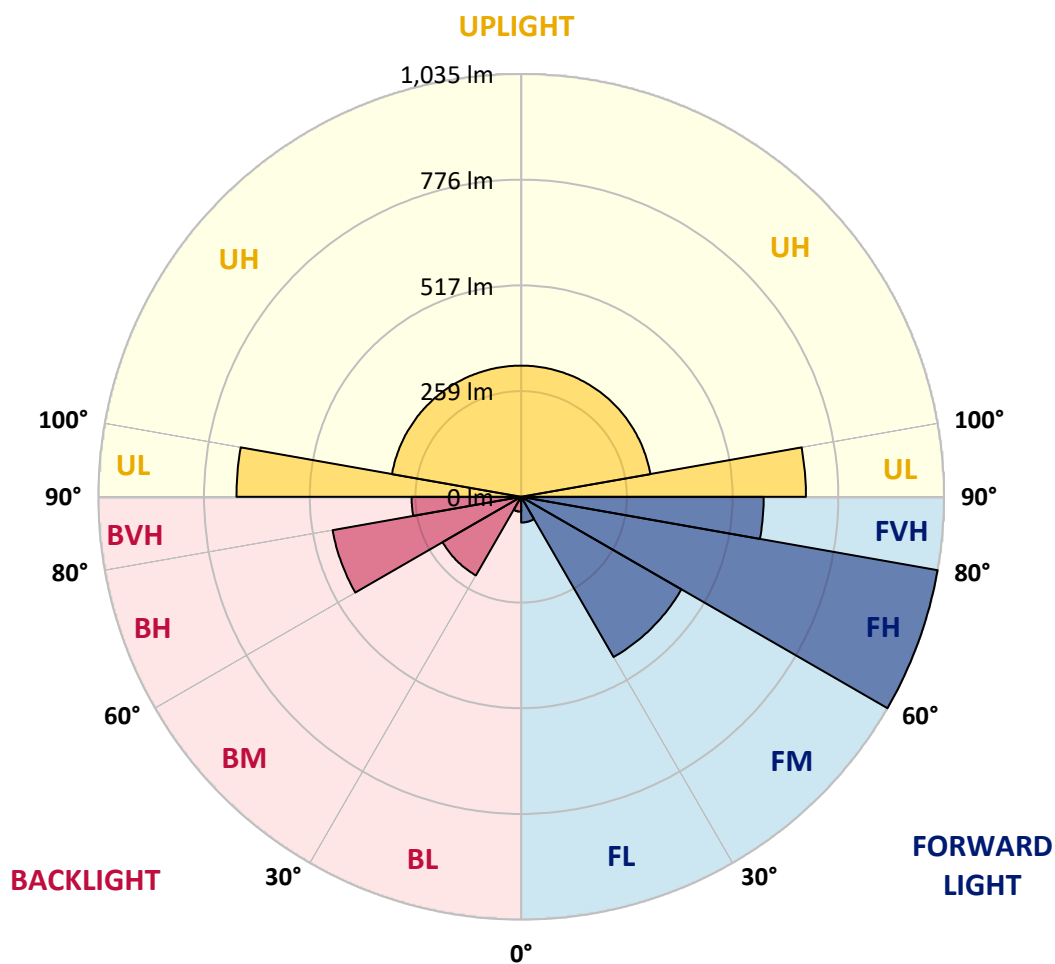
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	63.1	1.5			
FM	(30°-60°)	452.8	10.9			
FH	(60°-80°)	1034.8	24.8			G1/1800
FVH	(80°-90°)	593.4	14.2			G4/750
BL	(0°-30°)	36.6	0.9	B0/110		
BM	(30°-60°)	222.0	5.3	B1/1000		
BH	(60°-80°)	468.5	11.2	B1/500		G1/500
BVH	(80°-90°)	268.3	6.4			G3/500
UL	(90°-100°)	696.9	16.7		U4/1000	
UH	(100°-180°)	320.9	7.7		U3/500	

BUG Rating: B1-U4-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
2.5°	99.9	98.0	98.0	96.7	95.5	91.7	89.8	86.0	81.6	76.5	72.1
5°	117.6	116.3	116.3	115.7	115.1	111.9	108.7	103.7	97.4	91.0	83.5
7.5°	130.9	130.9	130.2	129.6	127.7	123.9	120.1	115.1	108.7	103.1	96.7
10°	141.6	141.6	141.6	139.7	137.2	134.0	129.0	123.3	116.3	110.0	103.1
12.5°	149.2	149.2	149.2	146.7	144.1	141.0	135.3	129.6	122.7	116.3	109.4
15°	157.4	156.8	157.4	153.0	150.5	147.3	141.6	136.6	129.6	123.9	117.0
17.5°	163.1	163.1	162.5	160.6	157.4	153.6	147.9	142.9	136.6	130.2	123.3
20°	168.8	168.8	168.2	166.3	163.7	160.0	154.9	148.6	142.9	136.6	129.0
22.5°	173.9	174.5	173.9	172.0	169.4	166.3	161.8	155.5	149.2	142.3	134.7
25°	179.6	179.6	180.2	178.3	175.1	172.0	167.5	161.8	155.5	147.9	139.1
27.5°	185.2	185.2	185.2	183.3	179.6	176.4	171.3	166.3	159.3	151.1	142.3
30°	188.4	189.0	188.4	187.1	183.3	179.6	174.5	168.8	161.8	153.0	144.1
32.5°	190.9	190.9	190.9	189.0	185.2	181.4	176.4	169.4	162.5	154.3	144.8
35°	194.1	194.1	193.5	191.6	188.4	184.6	178.9	172.6	165.0	156.8	146.7
37.5°	199.8	199.8	199.2	197.3	194.1	191.6	186.5	180.2	173.2	165.0	153.0
40°	214.3	213.7	213.1	212.4	209.9	209.9	206.1	200.4	192.2	184.6	169.4
42.5°	244.0	242.1	242.1	242.1	240.9	242.8	241.5	235.8	227.6	217.5	199.2
45°	293.4	289.6	289.6	288.3	290.8	291.5	291.5	285.8	275.7	263.0	240.9
47.5°	363.5	357.2	358.5	354.0	352.1	358.5	359.7	350.3	344.6	323.7	293.4
50°	451.4	443.2	447.0	440.0	432.4	440.7	444.5	438.8	430.5	403.4	368.6
52.5°	552.6	550.7	545.0	536.1	536.8	541.2	544.3	555.1	538.7	503.9	461.5
55°	669.5	667.6	665.7	646.8	647.4	647.4	653.1	663.8	649.9	598.7	557.0
57.5°	779.5	773.8	775.1	752.3	746.7	732.7	741.0	754.2	729.6	670.8	624.6
60°	868.0	863.6	860.5	840.9	831.4	812.4	809.9	826.3	798.5	728.3	676.5
62.5°	946.4	945.2	940.8	912.9	905.3	878.2	873.1	888.9	853.5	775.1	722.6
65°	1021.0	1016.0	1002.7	979.9	969.8	937.6	937.0	954.7	916.1	829.5	770.0
67.5°	1080.5	1077.3	1076.0	1040.6	1021.0	992.0	986.9	1010.9	966.0	866.8	808.0
70°	1133.6	1133.6	1129.8	1101.3	1071.6	1045.7	1038.7	1067.2	1016.0	918.6	857.3
72.5°	1182.3	1180.4	1178.5	1153.2	1115.2	1086.8	1077.9	1110.8	1052.7	947.7	888.3
75°	1217.7	1222.7	1218.3	1195.5	1153.8	1124.1	1116.5	1147.5	1087.4	983.1	921.8
77.5°	1244.2	1251.2	1246.7	1224.0	1177.2	1150.0	1143.1	1169.6	1108.9	998.9	940.1
78°	1248.6	1253.7	1249.9	1227.1	1180.4	1155.7	1147.5	1171.5	1111.5	1000.8	939.5
80°	1246.1	1248.6	1247.4	1228.4	1178.5	1155.1	1142.4	1165.8	1106.4	993.9	931.9
82.5°	1231.6	1233.5	1233.5	1217.0	1158.9	1143.1	1132.3	1158.2	1097.5	988.8	939.5
85°	1199.3	1203.1	1204.4	1192.4	1134.8	1119.0	1106.4	1131.1	1065.9	961.6	907.2
87.5°	1168.4	1167.7	1167.7	1158.2	1103.9	1091.9	1080.5	1103.2	1043.2	941.4	893.3
90°	1131.7	1132.3	1134.2	1123.5	1069.1	1058.3	1046.3	1073.5	1014.7	924.3	880.1
92.5°	1071.0	1072.9	1072.3	1063.4	1013.5	1004.6	993.9	1017.9	963.5	874.4	833.3
95°	968.6	972.4	971.1	964.8	926.2	911.7	901.6	928.7	878.8	799.1	765.6
97.5°	846.5	851.6	851.0	844.0	812.4	806.7	794.7	821.9	780.2	712.5	684.1
100°	689.1	698.0	694.2	689.8	673.3	670.8	667.0	694.8	663.2	609.5	584.2
102.5°	486.8	495.7	491.9	491.2	484.3	493.8	493.1	520.3	498.8	457.7	436.9
105°	297.8	302.2	299.0	295.2	288.9	295.2	288.3	294.0	278.8	249.7	235.8
107.5°	177.7	180.8	178.9	175.1	170.7	171.3	166.9	167.5	158.7	144.1	136.6



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CANDELA DISTRIBUTION (continued):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	119.5	120.8	120.1	116.3	113.8	114.4	112.5	112.5	109.4	101.8	96.7
112.5°	87.9	88.5	89.1	85.4	84.1	84.1	84.1	84.1	82.2	77.8	74.0
115°	67.6	68.3	68.3	65.8	64.5	65.1	65.1	65.8	65.1	62.0	59.4
117.5°	54.4	54.4	54.4	52.5	51.2	51.8	51.8	52.5	52.5	50.6	48.7
120°	45.5	46.2	46.2	44.9	43.6	43.6	43.6	43.6	44.3	43.0	41.1
122.5°	41.1	41.1	41.1	39.8	38.6	37.9	38.6	38.6	38.6	37.9	36.7
125°	37.3	37.3	37.3	36.0	34.8	34.1	34.8	34.8	35.4	34.8	33.5
127.5°	31.6	32.2	32.2	31.0	29.1	29.1	29.7	30.3	31.0	31.0	29.7
130°	23.4	24.0	24.0	23.4	21.5	21.5	22.8	23.4	24.7	24.7	23.4
132.5°	15.8	15.2	15.2	14.5	13.3	13.9	14.5	15.8	17.1	17.1	16.4
135°	2.5	1.9	1.9	1.9	1.9	1.9	3.2	3.2	4.4	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	0.6	0.6	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.6	0.0	0.0	0.6	0.6	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.6	0.6	0.0	0.0	0.0	0.0	0.0
170°	0.6	0.6	0.6	0.0	0.6	0.6	0.0	0.6	0.6	0.0	0.0
172.5°	0.0	0.6	0.0	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0
175°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0
177.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	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°	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
2.5°	70.2	68.3	63.9	60.7	56.3	53.7	50.6	48.0	46.8	46.2	46.2
5°	80.9	77.8	72.1	68.3	63.2	60.1	57.5	55.6	54.4	54.4	54.4
7.5°	93.6	89.1	82.2	75.9	71.4	68.3	65.8	63.2	61.3	60.7	60.1
10°	99.9	96.7	90.4	84.7	78.4	74.0	69.5	66.4	63.9	63.2	62.6
12.5°	105.6	101.8	94.8	89.1	82.2	76.5	71.4	67.0	63.9	62.6	62.0
15°	113.2	108.7	101.2	93.6	86.6	79.7	74.0	68.3	64.5	63.2	62.6
17.5°	119.5	115.1	106.8	99.3	91.0	83.5	76.5	70.2	65.8	64.5	63.9
20°	125.2	120.1	111.3	103.7	94.2	86.0	77.8	71.4	66.4	64.5	64.5
22.5°	130.2	125.2	116.3	107.5	97.4	87.9	79.7	72.1	67.0	65.1	64.5
25°	134.7	129.6	120.1	110.6	99.9	89.8	80.9	73.3	67.6	65.1	64.5
27.5°	137.8	132.8	123.3	113.2	102.4	91.7	82.8	74.6	68.9	65.8	65.8
30°	139.7	135.3	125.2	115.1	104.3	93.6	84.1	75.9	70.2	67.0	67.0
32.5°	140.4	135.9	126.4	116.3	106.2	95.5	86.0	77.8	72.1	68.9	68.9
35°	141.6	137.2	128.3	118.2	108.1	98.0	88.5	80.3	74.6	72.1	71.4
37.5°	147.3	142.9	132.8	122.0	111.3	101.2	91.7	83.5	77.8	75.2	75.2
40°	163.7	157.4	144.1	132.1	118.9	107.5	96.7	87.9	82.2	80.3	79.7
42.5°	190.3	184.0	167.5	150.5	134.0	119.5	104.9	94.2	87.9	85.4	85.4
45°	230.8	222.5	200.4	180.8	157.4	137.8	117.0	103.1	95.5	92.3	91.7
47.5°	283.2	273.1	246.6	216.9	188.4	163.1	134.0	114.4	104.3	99.9	99.3
50°	353.4	343.3	307.3	266.2	231.4	192.8	154.9	129.0	114.4	108.1	106.8
52.5°	442.6	431.8	384.4	331.3	286.4	233.3	179.6	144.8	126.4	118.2	117.0
55°	534.9	522.8	464.7	398.3	350.3	278.8	208.0	166.9	142.3	130.2	127.7
57.5°	600.0	586.7	522.2	448.2	402.1	314.2	236.5	188.4	160.6	144.1	142.9
60°	647.4	633.5	564.6	490.6	437.5	340.8	261.7	206.1	177.7	161.8	161.2
62.5°	689.8	678.4	602.5	528.5	465.3	362.9	284.5	227.6	194.1	175.8	170.7
65°	735.3	716.9	636.0	562.0	496.3	388.2	298.4	247.2	208.6	188.4	184.0
67.5°	773.8	754.2	677.7	602.5	526.0	408.4	316.7	264.9	226.3	201.0	199.8
70°	821.9	799.8	708.1	633.5	553.8	434.3	335.1	275.7	236.5	211.8	204.2
72.5°	849.7	826.3	738.4	665.1	574.1	455.8	347.7	280.7	243.4	216.9	209.3
75°	881.3	856.0	754.2	688.5	594.3	472.3	359.1	288.3	248.5	218.7	211.8
77.5°	895.2	868.7	778.9	704.9	612.0	482.4	367.3	295.2	249.1	218.7	216.9
78°	895.2	867.4	774.5	707.5	610.7	483.0	368.6	297.8	249.7	216.9	215.0
80°	889.5	861.7	767.5	706.2	606.3	481.8	369.9	302.2	247.2	214.3	215.6
82.5°	890.8	866.8	765.0	702.4	604.4	481.1	366.7	297.8	242.8	209.3	211.2
85°	857.9	835.2	744.1	684.1	587.3	474.8	362.3	292.1	240.2	205.5	207.4
87.5°	848.4	825.1	727.7	672.1	572.2	462.2	355.3	287.7	234.6	201.0	203.6
90°	830.7	808.0	708.1	651.8	555.7	445.7	338.9	274.4	225.7	192.8	194.1
92.5°	785.2	764.4	669.5	616.4	526.0	425.5	322.4	260.5	213.1	183.3	183.3
95°	727.1	708.7	619.6	572.8	487.4	391.3	296.5	239.6	194.7	168.2	166.9
97.5°	646.8	629.7	551.9	508.3	435.0	347.1	259.2	208.0	168.2	142.3	142.3
100°	543.1	536.1	464.7	426.1	361.6	283.9	213.1	166.9	135.9	113.8	111.9
102.5°	405.9	391.3	333.2	301.6	255.4	197.3	146.0	115.7	97.4	82.2	79.0
105°	211.8	215.0	178.9	164.4	141.0	113.8	88.5	72.1	61.3	53.7	51.2
107.5°	126.4	123.3	108.1	98.6	86.0	70.2	56.3	46.8	40.5	36.0	34.8



REPORT NUMBER: P314608

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	90.4	89.1	77.8	70.2	61.3	49.9	39.8	33.5	29.1	25.9	25.3
112.5°	69.5	68.3	60.1	53.7	46.2	37.3	29.7	24.7	21.5	19.0	19.0
115°	56.3	55.0	48.7	42.4	36.0	29.1	23.4	19.0	16.4	14.5	14.5
117.5°	46.2	44.9	39.2	34.8	29.1	23.4	18.3	15.2	12.6	11.4	11.4
120°	39.2	37.9	33.5	29.1	24.0	19.6	15.2	12.0	10.7	9.5	9.5
122.5°	35.4	33.5	29.7	25.3	20.9	16.4	12.6	10.1	8.9	7.6	7.6
125°	32.2	31.0	27.2	22.8	17.7	14.5	10.7	8.2	7.0	6.3	5.7
127.5°	28.5	27.2	23.4	19.0	14.5	11.4	8.2	6.3	4.4	3.8	3.8
130°	22.8	20.9	17.7	13.9	10.1	7.6	5.7	3.8	2.5	2.5	1.9
132.5°	15.8	14.5	12.0	8.9	5.7	3.8	2.5	1.9	0.6	0.6	0.6
135°	5.1	4.4	2.5	2.5	0.6	0.6	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)