

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: P314596

Luminaire Tested: **MPW-A4-D-U-ASYM-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314596
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-7027
Description: WOODBRIDGE POST TOP LUMINAIRE
(1) 70 CRI, 2700K LIGHT ENGINE. ASYMMETRIC DISTRIBUTION.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3869 lumens
Efficiency: N/A
Efficacy: 97.9 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 (A_{in}): 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

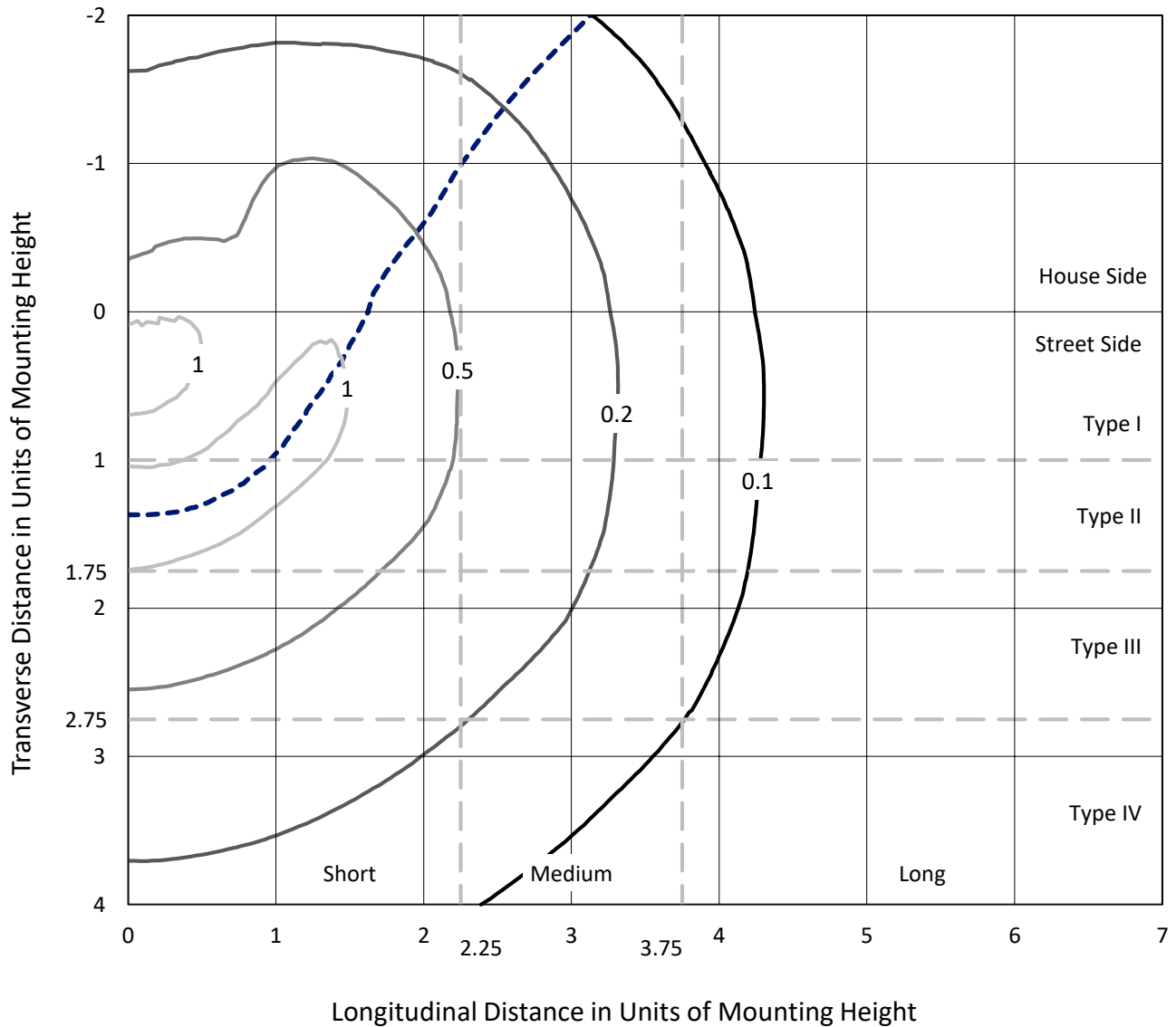


REPORT NUMBER: P314596

CATALOG NUMBER: MPW-A4-D-U-ASYM-7027

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

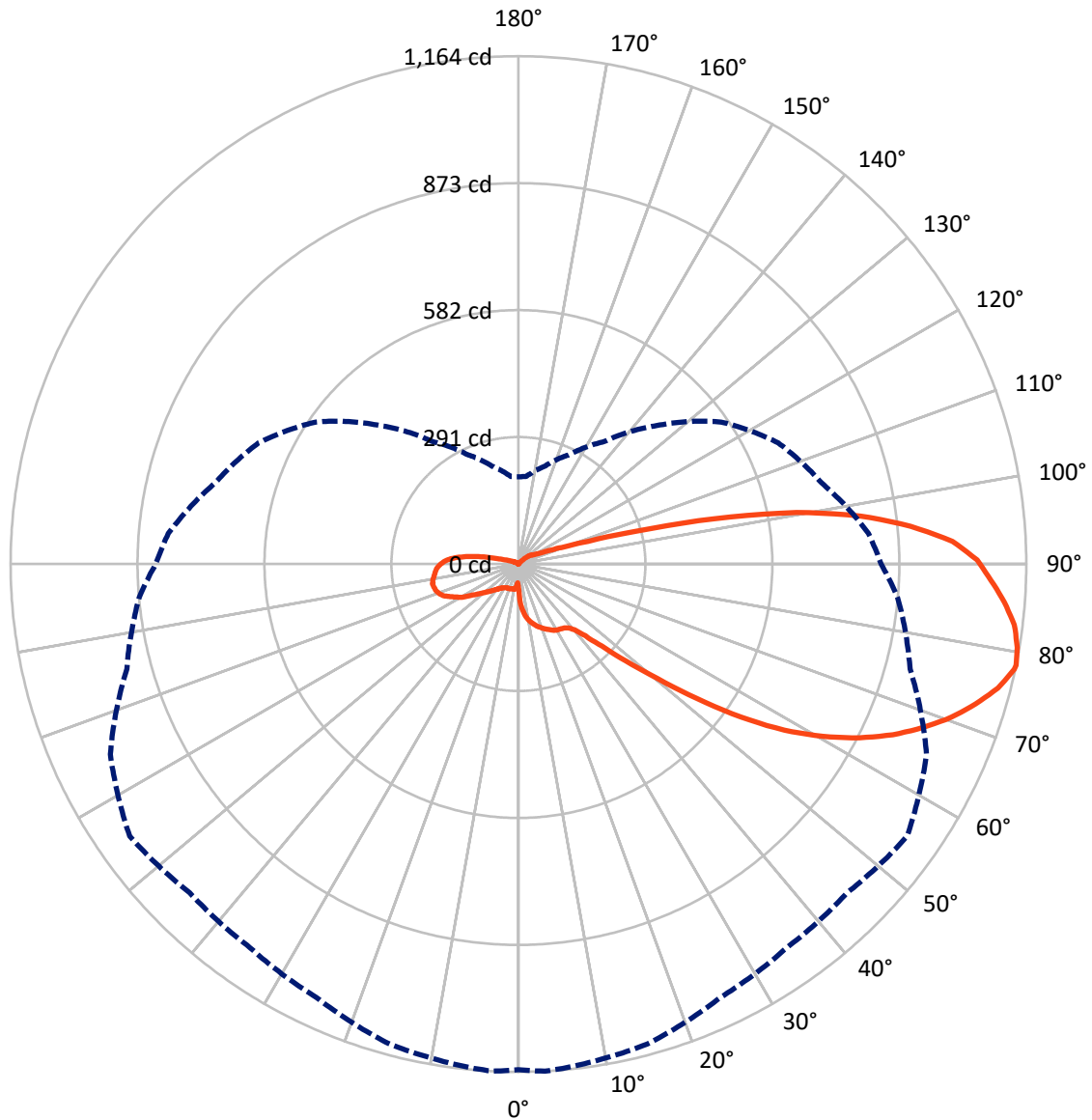


Based on 10 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P314596

CATALOG NUMBER: MPW-A4-D-U-ASYM-7027

Luminous Intensity Polar Plot



— Vertical Plane Through 3-Deg Lateral - - - Horizontal Cone Through 78-Deg Vertical



REPORT NUMBER: P314596

CATALOG NUMBER: MPW-A4-D-U-ASYM-7027

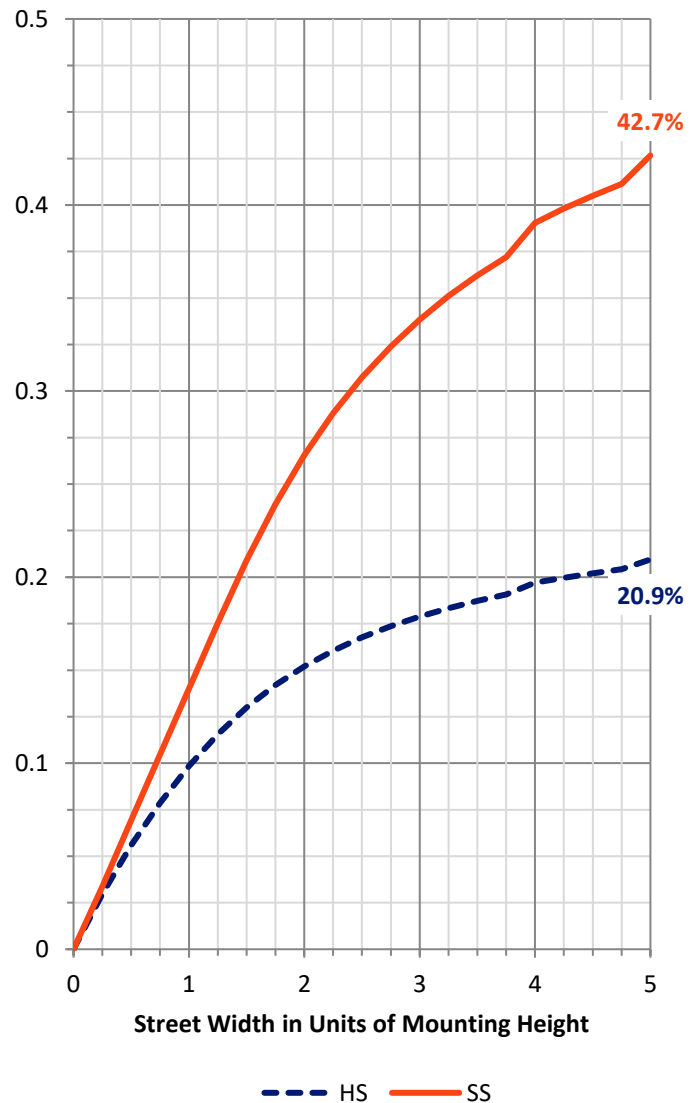
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	924.2	298.0	1222.2
	% Fixture	23.9	7.7	31.6
Street Side	Lumens	1990.8	656.1	2646.8
	% Fixture	51.5	17.0	68.4
Total	Lumens	2914.9	954.1	3869.0
	% Fixture	75.3	24.7	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.9	0.2
10°-20°	29.4	0.8
20°-30°	55.2	1.4
30°-40°	82.1	2.1
40°-50°	160.6	4.2
50°-60°	383.8	9.9
60°-70°	615.3	15.9
70°-80°	780.5	20.2
80°-90°	800.0	20.7
90°-100°	647.0	16.7
100°-110°	234.5	6.1
110°-120°	47.5	1.2
120°-130°	21.0	0.5
130°-140°	3.9	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°	2914.9	75.3
0°-180°	3869.0	100.0



REPORT NUMBER: P314596

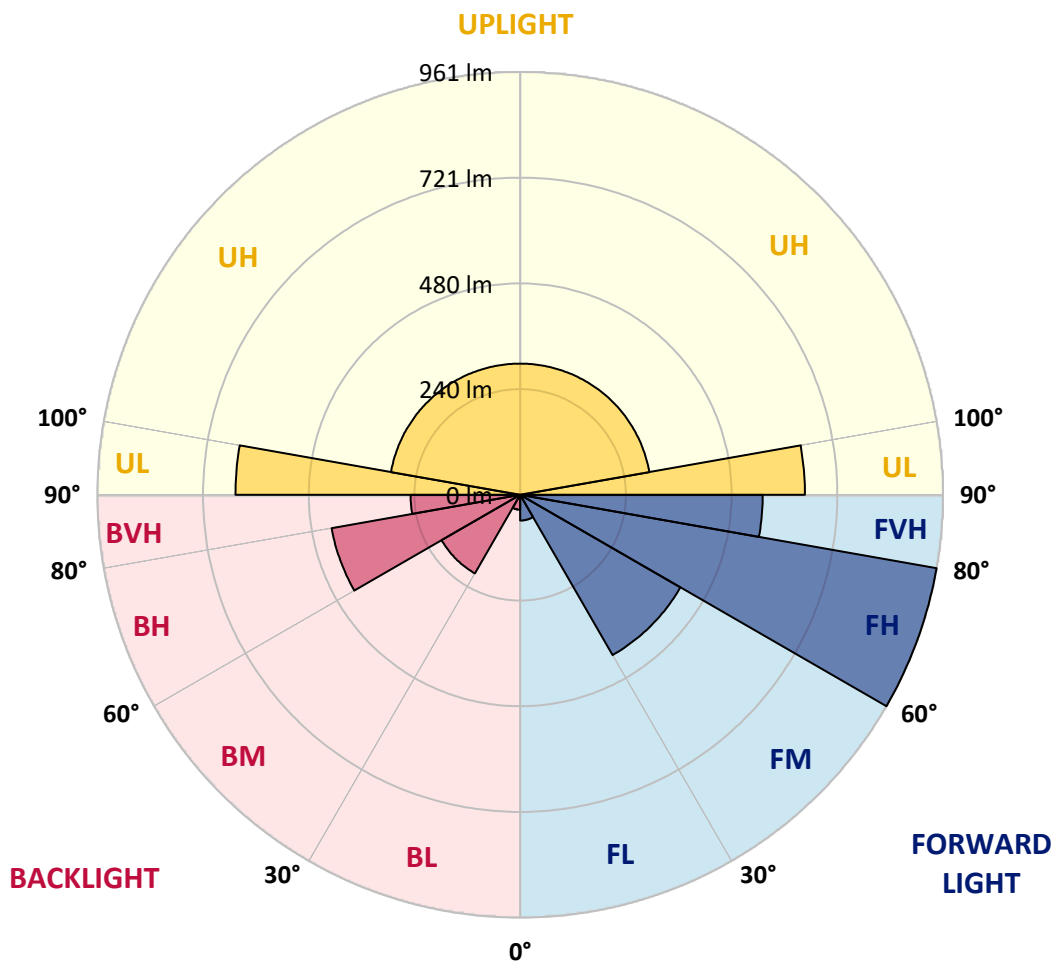
CATALOG NUMBER: MPW-A4-D-U-ASYM-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	58.6	1.5			
FM (30°-60°)	420.4	10.9			
FH (60°-80°)	960.8	24.8			G1/1800
FVH (80°-90°)	551.0	14.2			G4/750
BL (0°-30°)	34.0	0.9	B0/110		
BM (30°-60°)	206.1	5.3	B0/220		
BH (60°-80°)	435.0	11.2	B1/500		G1/500
BVH (80°-90°)	249.1	6.4			G3/500
UL (90°-100°)	647.0	16.7		U4/1000	
UH (100°-180°)	298.0	7.7		U3/500	

BUG Rating: B1-U4-G4

Type IV Short





REPORT NUMBER: P314596

CATALOG NUMBER: MPW-A4-D-U-ASYM-7027

CANDELA DISTRIBUTION (FULL):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
2.5°	92.7	91.0	91.0	89.8	88.6	85.1	83.4	79.8	75.7	71.0	66.9
5°	109.2	108.0	108.0	107.4	106.8	103.9	101.0	96.3	90.4	84.5	77.5
7.5°	121.5	121.5	120.9	120.3	118.6	115.1	111.5	106.8	101.0	95.7	89.8
10°	131.5	131.5	131.5	129.7	127.4	124.4	119.8	114.5	108.0	102.1	95.7
12.5°	138.5	138.5	138.5	136.2	133.8	130.9	125.6	120.3	113.9	108.0	101.6
15°	146.2	145.6	146.2	142.1	139.7	136.8	131.5	126.8	120.3	115.1	108.6
17.5°	151.4	151.4	150.9	149.1	146.2	142.6	137.4	132.7	126.8	120.9	114.5
20°	156.7	156.7	156.1	154.4	152.0	148.5	143.8	137.9	132.7	126.8	119.8
22.5°	161.4	162.0	161.4	159.7	157.3	154.4	150.3	144.4	138.5	132.1	125.0
25°	166.7	166.7	167.3	165.5	162.6	159.7	155.6	150.3	144.4	137.4	129.1
27.5°	172.0	172.0	172.0	170.2	166.7	163.8	159.1	154.4	147.9	140.3	132.1
30°	174.9	175.5	174.9	173.8	170.2	166.7	162.0	156.7	150.3	142.1	133.8
32.5°	177.3	177.3	177.3	175.5	172.0	168.5	163.8	157.3	150.9	143.2	134.4
35°	180.2	180.2	179.6	177.9	174.9	171.4	166.1	160.3	153.2	145.6	136.2
37.5°	185.5	185.5	184.9	183.1	180.2	177.9	173.2	167.3	160.8	153.2	142.1
40°	199.0	198.4	197.8	197.2	194.9	194.9	191.4	186.1	178.5	171.4	157.3
42.5°	226.6	224.8	224.8	224.8	223.7	225.4	224.2	219.0	211.3	201.9	184.9
45°	272.4	268.9	268.9	267.7	270.0	270.6	270.6	265.3	255.9	244.2	223.7
47.5°	337.5	331.7	332.8	328.7	327.0	332.8	334.0	325.2	319.9	300.6	272.4
50°	419.1	411.5	415.0	408.6	401.5	409.1	412.7	407.4	399.8	374.5	342.2
52.5°	513.0	511.3	506.0	497.8	498.4	502.5	505.4	515.4	500.1	467.8	428.5
55°	621.6	619.9	618.1	600.5	601.1	601.1	606.4	616.4	603.4	555.9	517.2
57.5°	723.8	718.5	719.7	698.5	693.3	680.3	688.0	700.3	677.4	622.8	580.0
60°	806.0	801.9	798.9	780.7	771.9	754.3	752.0	767.2	741.4	676.2	628.1
62.5°	878.8	877.6	873.5	847.6	840.6	815.4	810.7	825.3	792.5	719.7	671.0
65°	948.0	943.3	931.0	909.9	900.5	870.5	870.0	886.4	850.6	770.2	715.0
67.5°	1003.2	1000.3	999.1	966.2	948.0	921.0	916.3	938.6	897.0	804.8	750.2
70°	1052.5	1052.5	1049.0	1022.6	995.0	970.9	964.5	990.9	943.3	852.9	796.0
72.5°	1097.7	1096.0	1094.2	1070.7	1035.5	1009.1	1000.9	1031.4	977.4	879.9	824.8
75°	1130.6	1135.3	1131.2	1110.0	1071.3	1043.7	1036.7	1065.4	1009.7	912.8	855.9
77.5°	1155.2	1161.7	1157.6	1136.5	1093.0	1067.8	1061.3	1086.0	1029.6	927.5	872.9
78°	1159.3	1164.0	1160.5	1139.4	1096.0	1073.1	1065.4	1087.7	1032.0	929.2	872.3
80°	1157.0	1159.3	1158.2	1140.6	1094.2	1072.5	1060.7	1082.4	1027.3	922.8	865.3
82.5°	1143.5	1145.3	1145.3	1130.0	1076.0	1061.3	1051.3	1075.4	1019.1	918.1	872.3
85°	1113.6	1117.1	1118.3	1107.1	1053.7	1039.0	1027.3	1050.2	989.7	892.8	842.4
87.5°	1084.8	1084.2	1084.2	1075.4	1024.9	1013.8	1003.2	1024.3	968.6	874.1	829.4
90°	1050.8	1051.3	1053.1	1043.1	992.6	982.7	971.5	996.7	942.2	858.2	817.1
92.5°	994.4	996.2	995.6	987.4	941.0	932.8	922.8	945.1	894.6	811.8	773.7
95°	899.3	902.8	901.7	895.8	860.0	846.5	837.1	862.3	815.9	742.0	710.9
97.5°	786.0	790.7	790.1	783.7	754.3	749.0	737.9	763.1	724.4	661.6	635.1
100°	639.8	648.1	644.5	640.4	625.2	622.8	619.3	645.1	615.8	565.9	542.4
102.5°	452.0	460.2	456.7	456.1	449.7	458.5	457.9	483.1	463.2	425.0	405.6
105°	276.5	280.6	277.7	274.1	268.3	274.1	267.7	273.0	258.9	231.9	219.0
107.5°	165.0	167.9	166.1	162.6	158.5	159.1	155.0	155.6	147.3	133.8	126.8



REPORT NUMBER: P314596

CATALOG NUMBER: MPW-A4-D-U-ASYM-7027

CANDELA DISTRIBUTION (continued):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	110.9	112.1	111.5	108.0	105.7	106.2	104.5	104.5	101.6	94.5	89.8
112.5°	81.6	82.2	82.8	79.2	78.1	78.1	78.1	78.1	76.3	72.2	68.7
115°	62.8	63.4	63.4	61.0	59.9	60.5	60.5	61.0	60.5	57.5	55.2
117.5°	50.5	50.5	50.5	48.7	47.5	48.1	48.1	48.7	48.7	47.0	45.2
120°	42.3	42.9	42.9	41.7	40.5	40.5	40.5	40.5	41.1	39.9	38.2
122.5°	38.2	38.2	38.2	37.0	35.8	35.2	35.8	35.8	35.8	35.2	34.0
125°	34.6	34.6	34.6	33.5	32.3	31.7	32.3	32.3	32.9	32.3	31.1
127.5°	29.4	29.9	29.9	28.8	27.0	27.0	27.6	28.2	28.8	28.8	27.6
130°	21.7	22.3	22.3	21.7	20.0	20.0	21.1	21.7	22.9	22.9	21.7
132.5°	14.7	14.1	14.1	13.5	12.3	12.9	13.5	14.7	15.8	15.8	15.3
135°	2.3	1.8	1.8	1.8	1.8	1.8	2.9	2.9	4.1	4.7	4.7
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



REPORT NUMBER: P314596

CATALOG NUMBER: MPW-A4-D-U-ASYM-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
2.5°	65.2	63.4	59.3	56.4	52.2	49.9	47.0	44.6	43.4	42.9	42.9
5°	75.1	72.2	66.9	63.4	58.7	55.8	53.4	51.7	50.5	50.5	50.5
7.5°	86.9	82.8	76.3	70.4	66.3	63.4	61.0	58.7	56.9	56.4	55.8
10°	92.7	89.8	83.9	78.7	72.8	68.7	64.6	61.6	59.3	58.7	58.1
12.5°	98.0	94.5	88.1	82.8	76.3	71.0	66.3	62.2	59.3	58.1	57.5
15°	105.1	101.0	93.9	86.9	80.4	74.0	68.7	63.4	59.9	58.7	58.1
17.5°	110.9	106.8	99.2	92.2	84.5	77.5	71.0	65.2	61.0	59.9	59.3
20°	116.2	111.5	103.3	96.3	87.5	79.8	72.2	66.3	61.6	59.9	59.9
22.5°	120.9	116.2	108.0	99.8	90.4	81.6	74.0	66.9	62.2	60.5	59.9
25°	125.0	120.3	111.5	102.7	92.7	83.4	75.1	68.1	62.8	60.5	59.9
27.5°	128.0	123.3	114.5	105.1	95.1	85.1	76.9	69.3	64.0	61.0	61.0
30°	129.7	125.6	116.2	106.8	96.9	86.9	78.1	70.4	65.2	62.2	62.2
32.5°	130.3	126.2	117.4	108.0	98.6	88.6	79.8	72.2	66.9	64.0	64.0
35°	131.5	127.4	119.2	109.8	100.4	91.0	82.2	74.6	69.3	66.9	66.3
37.5°	136.8	132.7	123.3	113.3	103.3	93.9	85.1	77.5	72.2	69.9	69.9
40°	152.0	146.2	133.8	122.7	110.4	99.8	89.8	81.6	76.3	74.6	74.0
42.5°	176.7	170.8	155.6	139.7	124.4	110.9	97.4	87.5	81.6	79.2	79.2
45°	214.3	206.6	186.1	167.9	146.2	128.0	108.6	95.7	88.6	85.7	85.1
47.5°	263.0	253.6	228.9	201.3	174.9	151.4	124.4	106.2	96.9	92.7	92.2
50°	328.1	318.7	285.3	247.1	214.8	179.0	143.8	119.8	106.2	100.4	99.2
52.5°	410.9	400.9	356.9	307.6	265.9	216.6	166.7	134.4	117.4	109.8	108.6
55°	496.6	485.5	431.5	369.8	325.2	258.9	193.1	155.0	132.1	120.9	118.6
57.5°	557.1	544.7	484.9	416.2	373.3	291.7	219.5	174.9	149.1	133.8	132.7
60°	601.1	588.2	524.2	455.5	406.2	316.4	243.0	191.4	165.0	150.3	149.7
62.5°	640.4	629.9	559.4	490.7	432.0	336.9	264.2	211.3	180.2	163.2	158.5
65°	682.7	665.7	590.5	521.9	460.8	360.4	277.1	229.5	193.7	174.9	170.8
67.5°	718.5	700.3	629.3	559.4	488.4	379.2	294.1	246.0	210.2	186.7	185.5
70°	763.1	742.6	657.5	588.2	514.2	403.3	311.1	255.9	219.5	196.6	189.6
72.5°	788.9	767.2	685.6	617.5	533.0	423.2	322.9	260.6	226.0	201.3	194.3
75°	818.3	794.8	700.3	639.3	551.8	438.5	333.4	267.7	230.7	203.1	196.6
77.5°	831.2	806.6	723.2	654.5	568.2	447.9	341.1	274.1	231.3	203.1	201.3
78°	831.2	805.4	719.1	656.9	567.1	448.5	342.2	276.5	231.9	201.3	199.6
80°	825.9	800.1	712.6	655.7	562.9	447.3	343.4	280.6	229.5	199.0	200.2
82.5°	827.1	804.8	710.3	652.2	561.2	446.7	340.5	276.5	225.4	194.3	196.1
85°	796.6	775.4	690.9	635.1	545.3	440.8	336.4	271.2	223.1	190.8	192.5
87.5°	787.8	766.1	675.7	624.0	531.2	429.1	329.9	267.1	217.8	186.7	189.0
90°	771.3	750.2	657.5	605.2	516.0	413.8	314.6	254.8	209.6	179.0	180.2
92.5°	729.1	709.7	621.6	572.3	488.4	395.1	299.4	241.8	197.8	170.2	170.2
95°	675.1	658.0	575.3	531.8	452.6	363.4	275.3	222.5	180.8	156.1	155.0
97.5°	600.5	584.7	512.5	472.0	403.9	322.3	240.7	193.1	156.1	132.1	132.1
100°	504.2	497.8	431.5	395.6	335.8	263.6	197.8	155.0	126.2	105.7	103.9
102.5°	376.9	363.4	309.4	280.0	237.2	183.1	135.6	107.4	90.4	76.3	73.4
105°	196.6	199.6	166.1	152.6	130.9	105.7	82.2	66.9	56.9	49.9	47.5
107.5°	117.4	114.5	100.4	91.6	79.8	65.2	52.2	43.4	37.6	33.5	32.3



REPORT NUMBER: P314596

CATALOG NUMBER: MPW-A4-D-U-ASYM-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	83.9	82.8	72.2	65.2	56.9	46.4	37.0	31.1	27.0	24.1	23.5
112.5°	64.6	63.4	55.8	49.9	42.9	34.6	27.6	22.9	20.0	17.6	17.6
115°	52.2	51.1	45.2	39.3	33.5	27.0	21.7	17.6	15.3	13.5	13.5
117.5°	42.9	41.7	36.4	32.3	27.0	21.7	17.0	14.1	11.7	10.6	10.6
120°	36.4	35.2	31.1	27.0	22.3	18.2	14.1	11.2	10.0	8.8	8.8
122.5°	32.9	31.1	27.6	23.5	19.4	15.3	11.7	9.4	8.2	7.0	7.0
125°	29.9	28.8	25.2	21.1	16.4	13.5	10.0	7.6	6.5	5.9	5.3
127.5°	26.4	25.2	21.7	17.6	13.5	10.6	7.6	5.9	4.1	3.5	3.5
130°	21.1	19.4	16.4	12.9	9.4	7.0	5.3	3.5	2.3	2.3	1.8
132.5°	14.7	13.5	11.2	8.2	5.3	3.5	2.3	1.8	0.6	0.6	0.6
135°	4.7	4.1	2.3	2.3	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)