

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: P314597

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314597
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-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: 4823 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.58')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U4 - G4

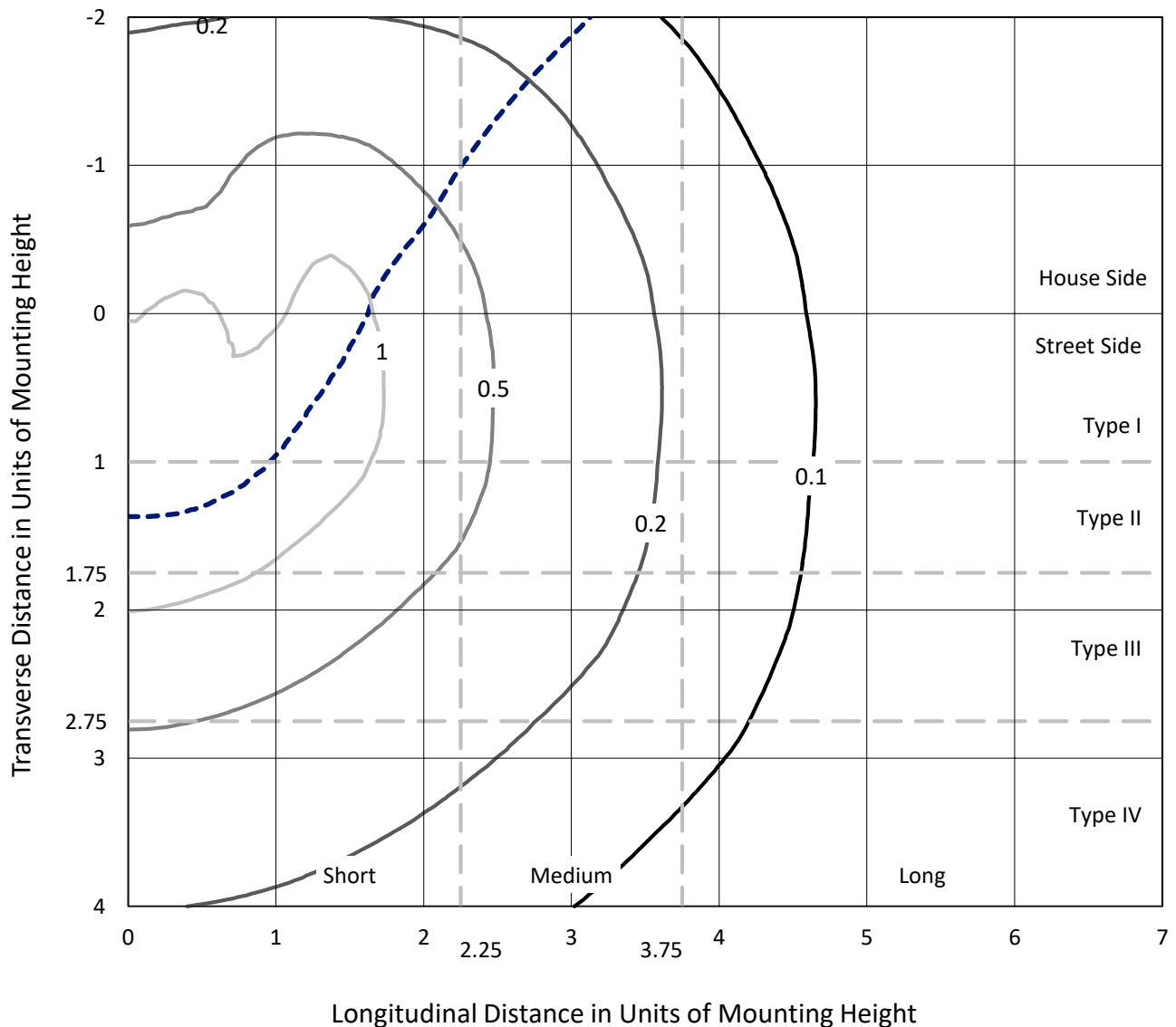
Input Watts (W): 51.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

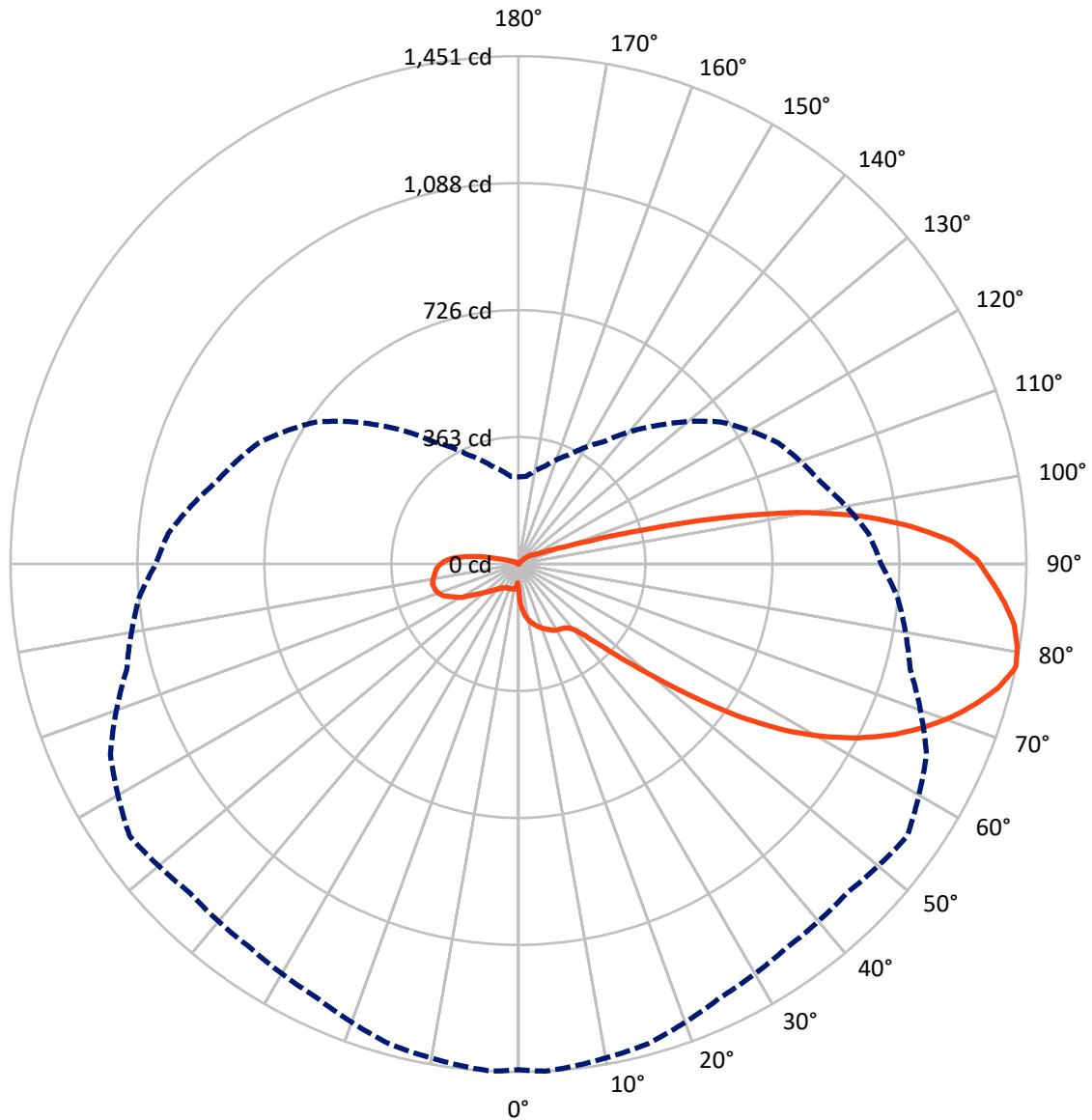


Based on 10 foot mounting height. Maximum calculated value = 1.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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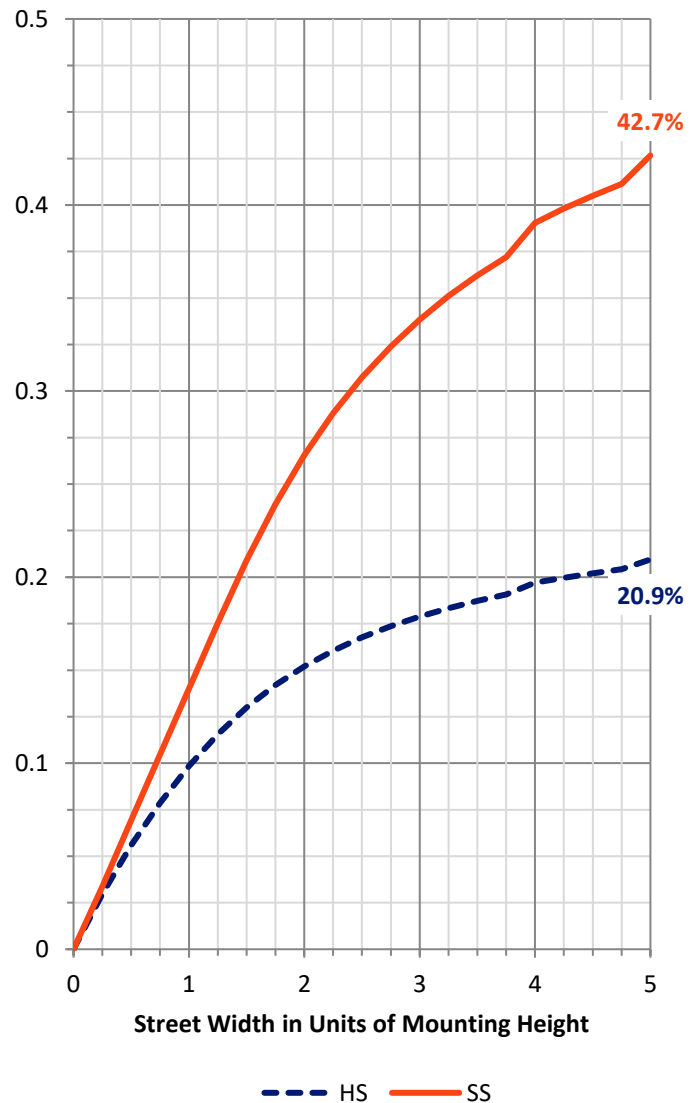
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1152.1	371.5	1523.5
	% Fixture	23.9	7.7	31.6
Street Side	Lumens	2481.6	817.8	3299.4
	% Fixture	51.5	17.0	68.4
Total	Lumens	3633.7	1189.3	4823.0
	% Fixture	75.3	24.7	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.8	0.2
10°-20°	36.7	0.8
20°-30°	68.8	1.4
30°-40°	102.4	2.1
40°-50°	200.2	4.2
50°-60°	478.5	9.9
60°-70°	767.0	15.9
70°-80°	973.0	20.2
80°-90°	997.3	20.7
90°-100°	806.6	16.7
100°-110°	292.3	6.1
110°-120°	59.3	1.2
120°-130°	26.2	0.5
130°-140°	4.9	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°	3633.7	75.3
0°-180°	4823.0	100.0



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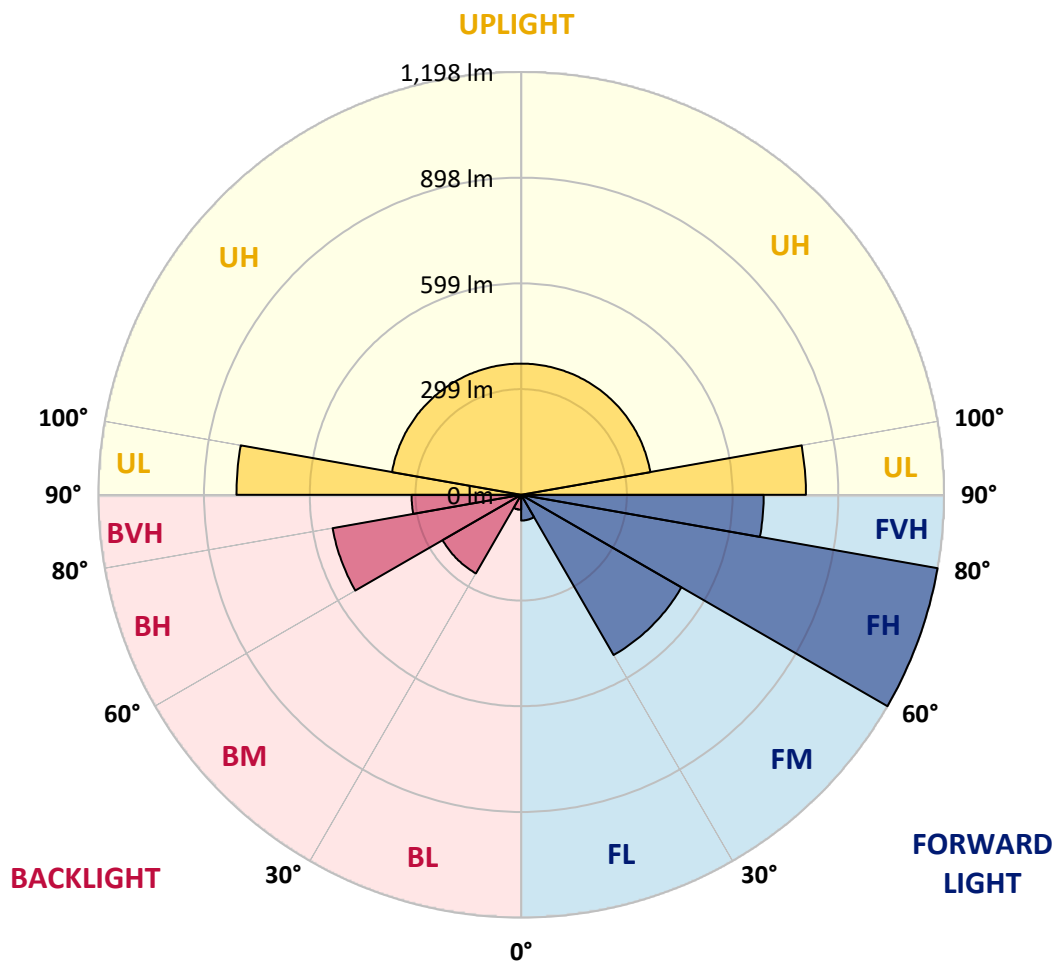
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	73.0	1.5			
FM	(30°-60°)	524.1	10.9			
FH	(60°-80°)	1197.7	24.8			G1/1800
FVH	(80°-90°)	686.8	14.2			G4/750
BL	(0°-30°)	42.3	0.9	B0/110		
BM	(30°-60°)	257.0	5.3	B1/1000		
BH	(60°-80°)	542.3	11.2	B2/1000		G2/1000
BVH	(80°-90°)	310.5	6.4			G3/500
UL	(90°-100°)	806.6	16.7		U4/1000	
UH	(100°-180°)	371.5	7.7		U3/500	

BUG Rating: B2-U4-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
2.5°	115.6	113.4	113.4	112.0	110.5	106.1	103.9	99.5	94.4	88.5	83.4
5°	136.1	134.6	134.6	133.9	133.2	129.5	125.9	120.0	112.7	105.4	96.6
7.5°	151.5	151.5	150.7	150.0	147.8	143.4	139.0	133.2	125.9	119.3	112.0
10°	163.9	163.9	163.9	161.7	158.8	155.1	149.3	142.7	134.6	127.3	119.3
12.5°	172.7	172.7	172.7	169.8	166.8	163.2	156.6	150.0	142.0	134.6	126.6
15°	182.2	181.5	182.2	177.1	174.2	170.5	163.9	158.1	150.0	143.4	135.4
17.5°	188.8	188.8	188.1	185.9	182.2	177.8	171.2	165.4	158.1	150.7	142.7
20°	195.4	195.4	194.6	192.5	189.5	185.1	179.3	172.0	165.4	158.1	149.3
22.5°	201.2	202.0	201.2	199.0	196.1	192.5	187.3	180.0	172.7	164.6	155.9
25°	207.8	207.8	208.5	206.4	202.7	199.0	193.9	187.3	180.0	171.2	161.0
27.5°	214.4	214.4	214.4	212.2	207.8	204.2	198.3	192.5	184.4	174.9	164.6
30°	218.1	218.8	218.1	216.6	212.2	207.8	202.0	195.4	187.3	177.1	166.8
32.5°	221.0	221.0	221.0	218.8	214.4	210.0	204.2	196.1	188.1	178.5	167.6
35°	224.6	224.6	223.9	221.7	218.1	213.7	207.1	199.8	191.0	181.5	169.8
37.5°	231.2	231.2	230.5	228.3	224.6	221.7	215.9	208.5	200.5	191.0	177.1
40°	248.1	247.3	246.6	245.9	242.9	242.9	238.6	232.0	222.5	213.7	196.1
42.5°	282.5	280.3	280.3	280.3	278.8	281.0	279.5	272.9	263.4	251.7	230.5
45°	339.5	335.1	335.1	333.7	336.6	337.3	337.3	330.8	319.0	304.4	278.8
47.5°	420.8	413.4	414.9	409.8	407.6	414.9	416.4	405.4	398.8	374.7	339.5
50°	522.5	513.0	517.4	509.3	500.5	510.0	514.4	507.8	498.3	466.9	426.6
52.5°	639.6	637.4	630.8	620.5	621.3	626.4	630.0	642.5	623.5	583.2	534.2
55°	774.9	772.7	770.5	748.6	749.3	749.3	755.9	768.3	752.2	693.0	644.7
57.5°	902.3	895.7	897.1	870.8	864.2	848.1	857.6	873.0	844.4	776.4	723.0
60°	1004.7	999.6	995.9	973.2	962.3	940.3	937.4	956.4	924.2	843.0	783.0
62.5°	1095.4	1094.0	1088.9	1056.7	1047.9	1016.4	1010.6	1028.8	987.9	897.1	836.4
65°	1181.8	1175.9	1160.6	1134.2	1122.5	1085.2	1084.5	1104.9	1060.3	960.1	891.3
67.5°	1250.6	1246.9	1245.4	1204.5	1181.8	1148.1	1142.3	1170.1	1118.1	1003.2	935.2
70°	1312.0	1312.0	1307.6	1274.7	1240.3	1210.3	1202.3	1235.2	1175.9	1063.2	992.3
72.5°	1368.4	1366.2	1364.0	1334.7	1290.8	1257.9	1247.6	1285.7	1218.4	1096.9	1028.1
75°	1409.4	1415.2	1410.1	1383.7	1335.5	1301.1	1292.3	1328.1	1258.6	1137.9	1066.9
77.5°	1440.1	1448.1	1443.0	1416.7	1362.5	1331.1	1323.0	1353.7	1283.5	1156.2	1088.1
78°	1445.2	1451.1	1446.7	1420.3	1366.2	1337.6	1328.1	1355.9	1286.4	1158.4	1087.4
80°	1442.3	1445.2	1443.8	1421.8	1364.0	1336.9	1322.3	1349.4	1280.6	1150.3	1078.6
82.5°	1425.5	1427.7	1427.7	1408.6	1341.3	1323.0	1310.6	1340.6	1270.3	1144.5	1087.4
85°	1388.1	1392.5	1394.0	1380.1	1313.5	1295.2	1280.6	1309.1	1233.7	1113.0	1050.1
87.5°	1352.3	1351.6	1351.6	1340.6	1277.6	1263.7	1250.6	1276.9	1207.4	1089.6	1034.0
90°	1309.8	1310.6	1312.8	1300.3	1237.4	1225.0	1211.1	1242.5	1174.5	1069.8	1018.6
92.5°	1239.6	1241.8	1241.1	1230.8	1173.0	1162.8	1150.3	1178.1	1115.2	1012.0	964.5
95°	1121.0	1125.4	1124.0	1116.7	1072.0	1055.2	1043.5	1074.9	1017.1	924.9	886.2
97.5°	979.8	985.7	984.9	976.9	940.3	933.7	919.8	951.3	903.0	824.7	791.8
100°	797.6	807.9	803.5	798.3	779.3	776.4	772.0	804.2	767.6	705.4	676.1
102.5°	563.5	573.7	569.3	568.6	560.5	571.5	570.8	602.2	577.4	529.8	505.6
105°	344.7	349.8	346.1	341.7	334.4	341.7	333.7	340.3	322.7	289.0	272.9
107.5°	205.6	209.3	207.1	202.7	197.6	198.3	193.2	193.9	183.7	166.8	158.1



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CANDELA DISTRIBUTION (continued):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	138.3	139.8	139.0	134.6	131.7	132.4	130.3	130.3	126.6	117.8	112.0
112.5°	101.7	102.4	103.2	98.8	97.3	97.3	97.3	97.3	95.1	90.0	85.6
115°	78.3	79.0	79.0	76.1	74.6	75.4	75.4	76.1	75.4	71.7	68.8
117.5°	62.9	62.9	62.9	60.7	59.3	60.0	60.0	60.7	60.7	58.5	56.3
120°	52.7	53.4	53.4	52.0	50.5	50.5	50.5	50.5	51.2	49.8	47.6
122.5°	47.6	47.6	47.6	46.1	44.6	43.9	44.6	44.6	44.6	43.9	42.4
125°	43.2	43.2	43.2	41.7	40.2	39.5	40.2	40.2	41.0	40.2	38.8
127.5°	36.6	37.3	37.3	35.9	33.7	33.7	34.4	35.1	35.9	35.9	34.4
130°	27.1	27.8	27.8	27.1	24.9	24.9	26.3	27.1	28.5	28.5	27.1
132.5°	18.3	17.6	17.6	16.8	15.4	16.1	16.8	18.3	19.8	19.8	19.0
135°	2.9	2.2	2.2	2.2	2.2	2.2	3.7	3.7	5.1	5.9	5.9
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	0.7	0.7	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.7	0.0	0.0	0.7	0.7	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.7	0.7	0.0	0.0	0.0	0.0	0.0
170°	0.7	0.7	0.7	0.0	0.7	0.7	0.0	0.7	0.7	0.0	0.0
172.5°	0.0	0.7	0.0	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0
175°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0
177.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	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°	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
2.5°	81.2	79.0	73.9	70.2	65.1	62.2	58.5	55.6	54.1	53.4	53.4
5°	93.7	90.0	83.4	79.0	73.2	69.5	66.6	64.4	62.9	62.9	62.9
7.5°	108.3	103.2	95.1	87.8	82.7	79.0	76.1	73.2	71.0	70.2	69.5
10°	115.6	112.0	104.6	98.1	90.7	85.6	80.5	76.8	73.9	73.2	72.4
12.5°	122.2	117.8	109.8	103.2	95.1	88.5	82.7	77.6	73.9	72.4	71.7
15°	131.0	125.9	117.1	108.3	100.3	92.2	85.6	79.0	74.6	73.2	72.4
17.5°	138.3	133.2	123.7	114.9	105.4	96.6	88.5	81.2	76.1	74.6	73.9
20°	144.9	139.0	128.8	120.0	109.0	99.5	90.0	82.7	76.8	74.6	74.6
22.5°	150.7	144.9	134.6	124.4	112.7	101.7	92.2	83.4	77.6	75.4	74.6
25°	155.9	150.0	139.0	128.1	115.6	103.9	93.7	84.9	78.3	75.4	74.6
27.5°	159.5	153.7	142.7	131.0	118.5	106.1	95.9	86.3	79.8	76.1	76.1
30°	161.7	156.6	144.9	133.2	120.7	108.3	97.3	87.8	81.2	77.6	77.6
32.5°	162.4	157.3	146.4	134.6	122.9	110.5	99.5	90.0	83.4	79.8	79.8
35°	163.9	158.8	148.5	136.8	125.1	113.4	102.4	92.9	86.3	83.4	82.7
37.5°	170.5	165.4	153.7	141.2	128.8	117.1	106.1	96.6	90.0	87.1	87.1
40°	189.5	182.2	166.8	152.9	137.6	124.4	112.0	101.7	95.1	92.9	92.2
42.5°	220.3	212.9	193.9	174.2	155.1	138.3	121.5	109.0	101.7	98.8	98.8
45°	267.1	257.6	232.0	209.3	182.2	159.5	135.4	119.3	110.5	106.8	106.1
47.5°	327.8	316.1	285.4	251.0	218.1	188.8	155.1	132.4	120.7	115.6	114.9
50°	409.1	397.3	355.6	308.1	267.8	223.2	179.3	149.3	132.4	125.1	123.7
52.5°	512.2	499.8	444.9	383.4	331.5	270.0	207.8	167.6	146.4	136.8	135.4
55°	619.1	605.2	537.8	461.0	405.4	322.7	240.7	193.2	164.6	150.7	147.8
57.5°	694.4	679.1	604.4	518.8	465.4	363.7	273.7	218.1	185.9	166.8	165.4
60°	749.3	733.2	653.5	567.8	506.4	394.4	302.9	238.6	205.6	187.3	186.6
62.5°	798.3	785.2	697.4	611.7	538.6	420.0	329.3	263.4	224.6	203.4	197.6
65°	851.0	829.8	736.1	650.5	574.4	449.3	345.4	286.1	241.5	218.1	212.9
67.5°	895.7	873.0	784.4	697.4	608.8	472.7	366.6	306.6	262.0	232.7	231.2
70°	951.3	925.7	819.6	733.2	641.0	502.7	387.8	319.0	273.7	245.1	236.4
72.5°	983.5	956.4	854.7	769.8	664.4	527.6	402.5	324.9	281.7	251.0	242.2
75°	1020.1	990.8	873.0	796.9	687.8	546.6	415.6	333.7	287.6	253.2	245.1
77.5°	1036.2	1005.4	901.5	815.9	708.3	558.3	425.1	341.7	288.3	253.2	251.0
78°	1036.2	1004.0	896.4	818.8	706.9	559.1	426.6	344.7	289.0	251.0	248.8
80°	1029.6	997.4	888.3	817.4	701.8	557.6	428.1	349.8	286.1	248.1	249.5
82.5°	1031.0	1003.2	885.4	813.0	699.6	556.9	424.4	344.7	281.0	242.2	244.4
85°	993.0	966.6	861.3	791.8	679.8	549.5	419.3	338.1	278.1	237.8	240.0
87.5°	982.0	954.9	842.2	777.9	662.2	534.9	411.2	332.9	271.5	232.7	235.6
90°	961.5	935.2	819.6	754.4	643.2	515.9	392.2	317.6	261.2	223.2	224.6
92.5°	908.8	884.7	774.9	713.5	608.8	492.5	373.2	301.5	246.6	212.2	212.2
95°	841.5	820.3	717.1	663.0	564.2	453.0	343.2	277.3	225.4	194.6	193.2
97.5°	748.6	728.8	638.8	588.3	503.4	401.7	300.0	240.7	194.6	164.6	164.6
100°	628.6	620.5	537.8	493.2	418.6	328.6	246.6	193.2	157.3	131.7	129.5
102.5°	469.8	453.0	385.6	349.0	295.6	228.3	169.0	133.9	112.7	95.1	91.5
105°	245.1	248.8	207.1	190.3	163.2	131.7	102.4	83.4	71.0	62.2	59.3
107.5°	146.4	142.7	125.1	114.2	99.5	81.2	65.1	54.1	46.8	41.7	40.2



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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	104.6	103.2	90.0	81.2	71.0	57.8	46.1	38.8	33.7	30.0	29.3
112.5°	80.5	79.0	69.5	62.2	53.4	43.2	34.4	28.5	24.9	22.0	22.0
115°	65.1	63.7	56.3	49.0	41.7	33.7	27.1	22.0	19.0	16.8	16.8
117.5°	53.4	52.0	45.4	40.2	33.7	27.1	21.2	17.6	14.6	13.2	13.2
120°	45.4	43.9	38.8	33.7	27.8	22.7	17.6	13.9	12.4	11.0	11.0
122.5°	41.0	38.8	34.4	29.3	24.1	19.0	14.6	11.7	10.2	8.8	8.8
125°	37.3	35.9	31.5	26.3	20.5	16.8	12.4	9.5	8.0	7.3	6.6
127.5°	32.9	31.5	27.1	22.0	16.8	13.2	9.5	7.3	5.1	4.4	4.4
130°	26.3	24.1	20.5	16.1	11.7	8.8	6.6	4.4	2.9	2.9	2.2
132.5°	18.3	16.8	13.9	10.2	6.6	4.4	2.9	2.2	0.7	0.7	0.7
135°	5.9	5.1	2.9	2.9	0.7	0.7	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)