

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: P212612

Luminaire Tested: **MPW-AF-D-U-ASYM-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P212612
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14376)
Test Lab: INNOVATION CENTER-P1
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: MPW-AF-D-U-ASYM-7030
Description: WOODBRIDGE LED POST-TOP LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND ASYMMETRIC OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4087.4 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.58')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U3 - G2

Input Watts (W): 58
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

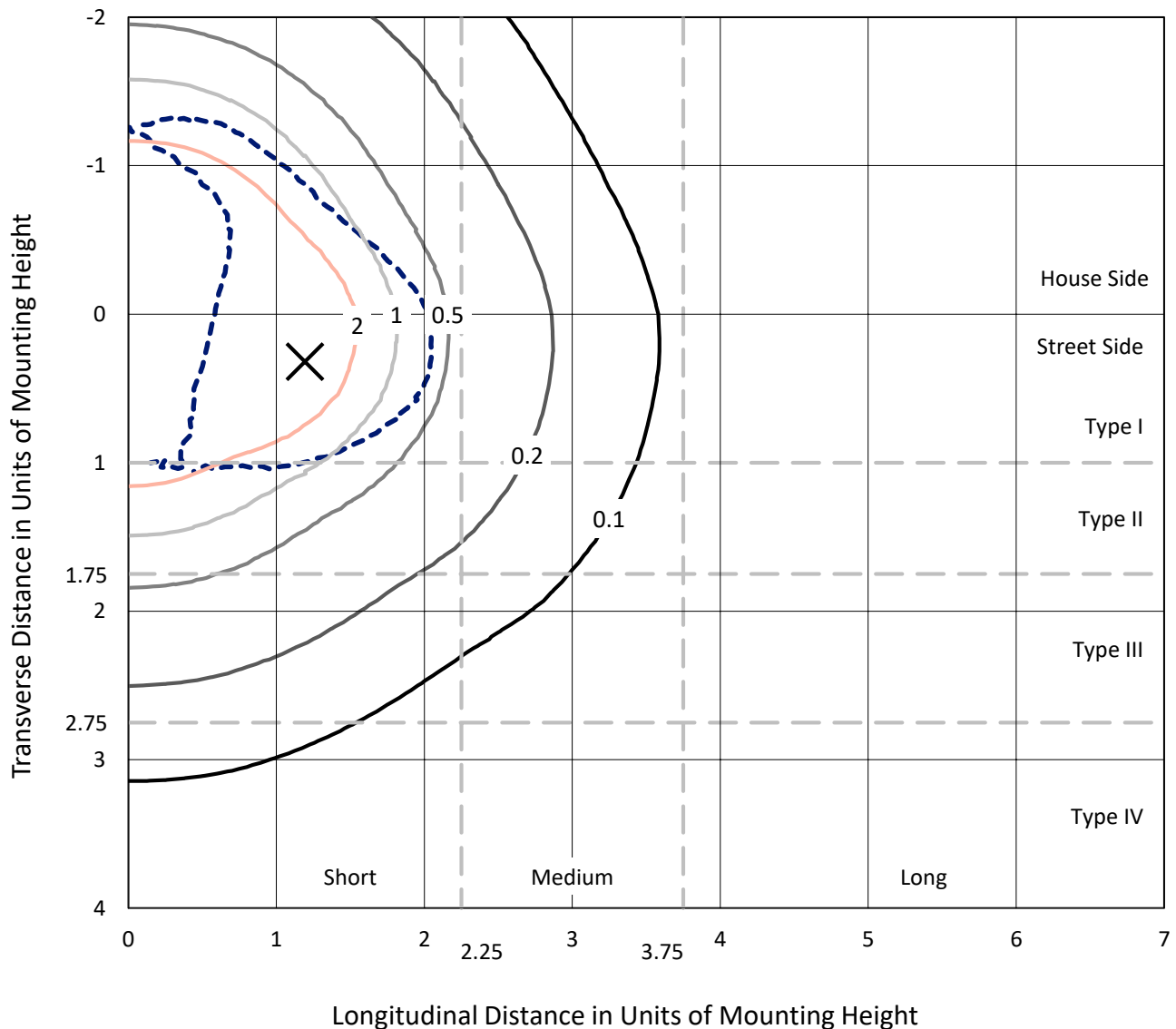


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

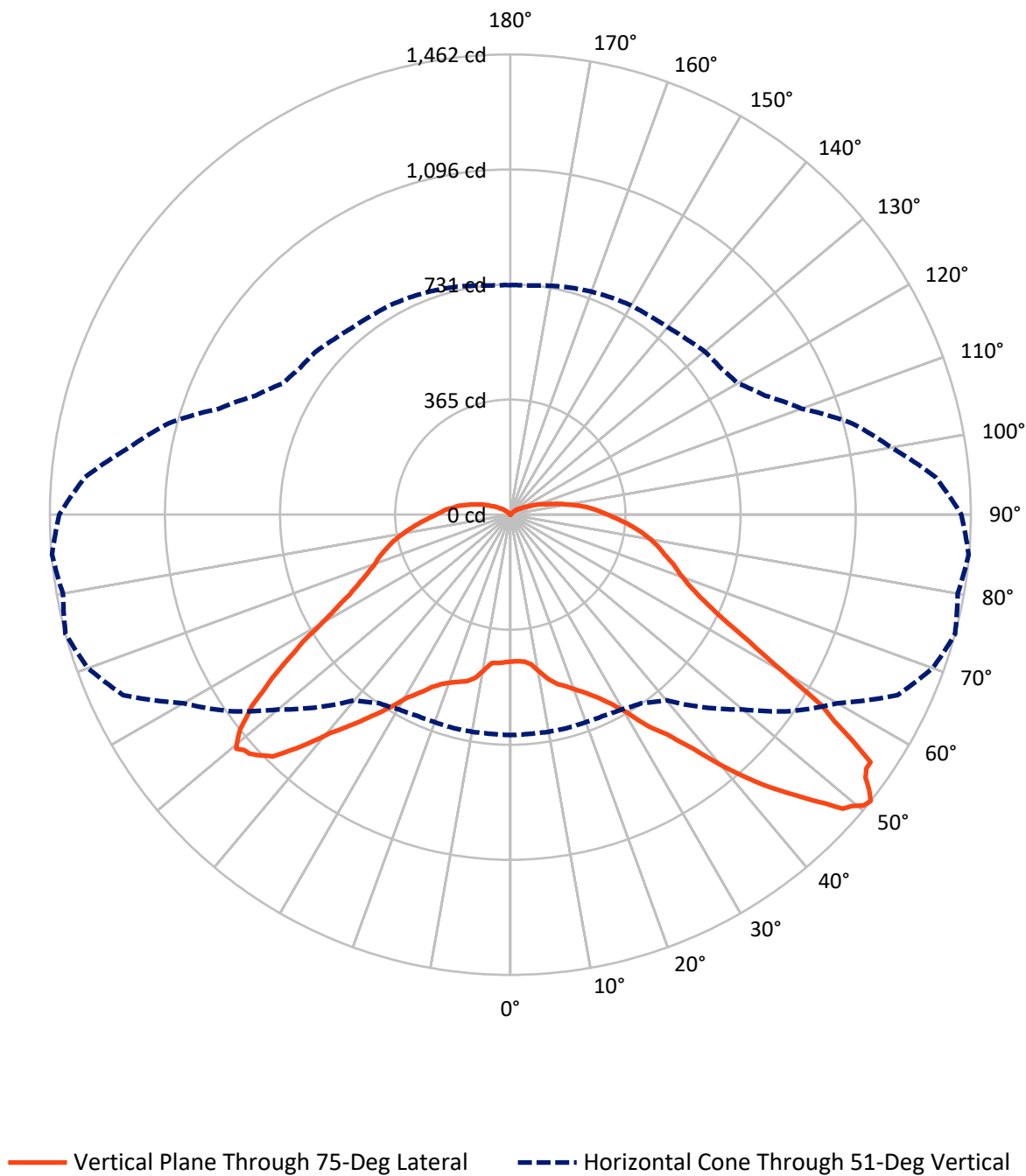


Based on 10 foot mounting height. Maximum calculated value = 5 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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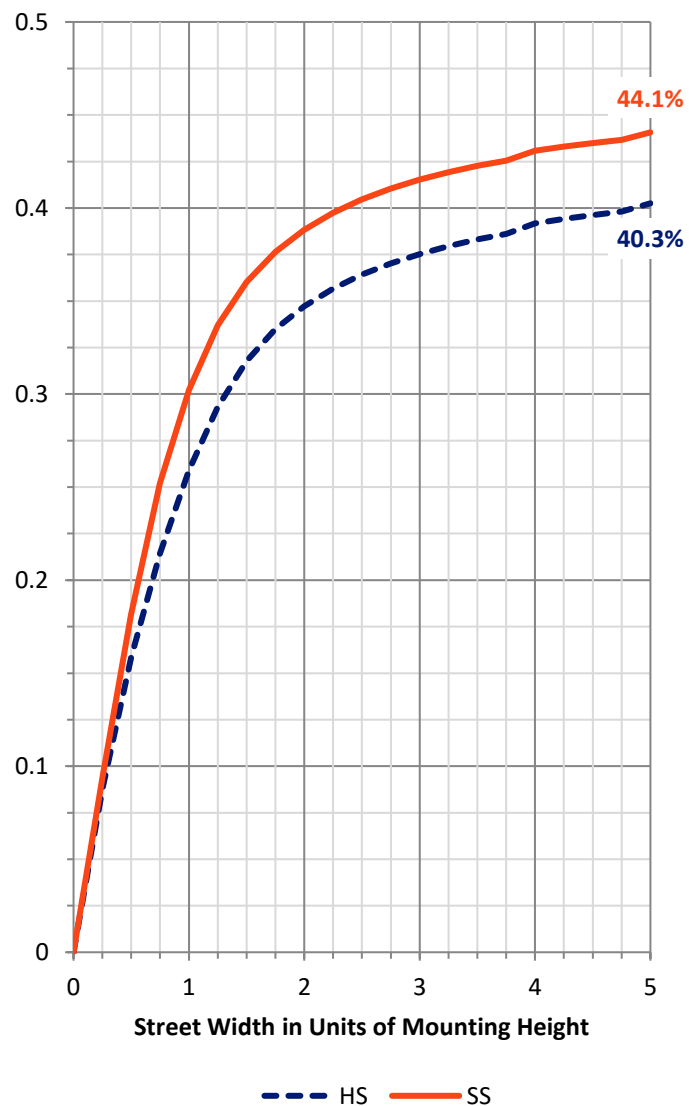
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1738.7	242.3	1981.0
	% Fixture	42.5	5.9	48.5
Street Side	Lumens	1881.6	224.8	2106.4
	% Fixture	46.0	5.5	51.5
Total	Lumens	3620.3	467.1	4087.4
	% Fixture	88.6	11.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.8	1.1
10°-20°	147.7	3.6
20°-30°	270.4	6.6
30°-40°	446.1	10.9
40°-50°	694.3	17.0
50°-60°	749.9	18.3
60°-70°	522.2	12.8
70°-80°	421.6	10.3
80°-90°	323.2	7.9
90°-100°	230.5	5.6
100°-110°	138.9	3.4
110°-120°	66.2	1.6
120°-130°	26.3	0.6
130°-140°	5.1	0.1
140°-150°	0.1	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3620.3	88.6
0°-180°	4087.4	100.0

Coefficient of Utilization



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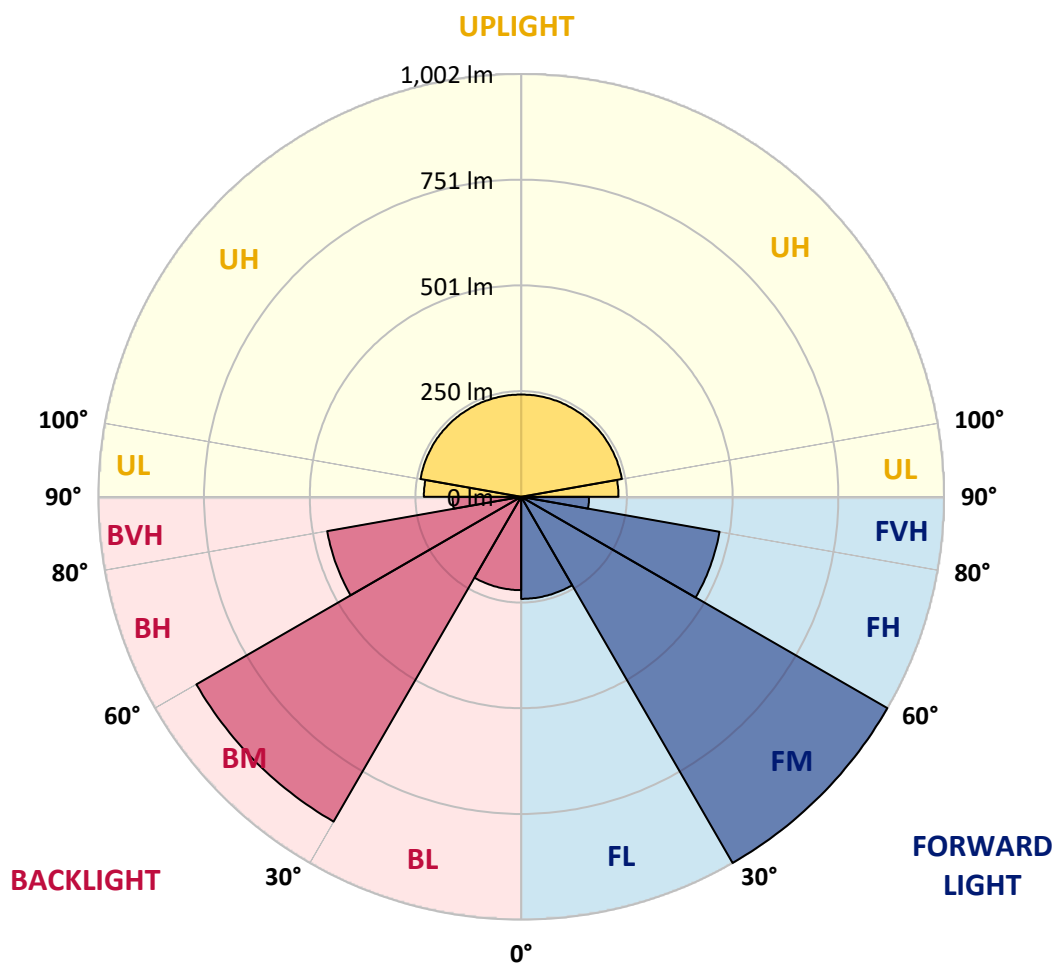
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	241.8	5.9			
FM	(30°-60°)	1001.8	24.5			
FH	(60°-80°)	477.2	11.7			G0/660
FVH	(80°-90°)	160.9	3.9			G2/225
BL	(0°-30°)	221.1	5.4	B1/500		
BM	(30°-60°)	888.6	21.7	B1/1000		
BH	(60°-80°)	466.6	11.4	B1/500		G1/500
BVH	(80°-90°)	162.4	4.0			G2/225
UL	(90°-100°)	230.5	5.6		U3/500	
UH	(100°-180°)	242.3	5.9		U3/500	

BUG Rating: B1-U3-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	466.3	466.3	466.3	466.3	466.3	466.3	466.3	466.3	466.3	466.3	466.3
2.5°	463.7	463.7	463.7	463.7	465.0	463.7	465.0	463.7	465.0	465.0	466.3
5°	448.1	448.1	450.6	450.6	451.9	453.2	455.8	455.8	458.5	459.8	461.1
7.5°	455.8	457.1	457.1	455.8	457.1	459.8	461.1	463.7	467.6	470.3	474.2
10°	471.6	470.3	471.6	471.6	472.9	475.5	479.4	484.6	487.2	492.4	497.7
12.5°	489.8	489.8	492.4	492.4	495.1	499.0	505.5	508.2	512.0	518.5	523.8
15°	512.0	512.0	513.3	514.6	517.2	522.5	527.7	531.7	534.3	538.1	542.0
17.5°	536.9	539.4	540.7	543.3	544.7	548.6	551.2	552.5	553.8	555.1	559.1
20°	557.8	557.8	560.4	563.0	565.6	572.1	573.4	573.4	572.1	574.7	577.3
22.5°	557.8	556.5	563.0	572.1	578.6	585.2	589.1	591.7	594.4	593.1	596.9
25°	546.0	547.3	553.8	564.3	578.6	590.4	600.8	607.4	613.9	615.2	620.5
27.5°	563.0	563.0	569.5	578.6	590.4	603.4	616.6	629.6	638.7	647.9	654.4
30°	577.3	579.9	587.8	599.5	608.7	621.8	636.1	651.8	664.8	676.6	685.7
32.5°	603.4	604.8	610.0	617.9	630.9	646.6	663.5	681.9	701.4	715.8	730.2
35°	632.2	628.2	628.2	634.8	645.3	659.6	679.3	702.8	739.4	758.9	778.5
37.5°	654.4	654.4	655.7	659.6	664.8	675.3	693.6	722.3	765.5	809.8	829.4
40°	688.3	688.3	687.0	691.0	696.2	705.4	721.0	748.4	785.0	858.1	909.1
42.5°	713.1	711.9	713.1	718.4	719.7	726.2	741.9	771.9	811.1	879.1	967.9
45°	727.6	727.6	726.2	728.9	732.8	740.7	751.0	781.1	832.0	901.3	992.7
46°	728.9	728.9	727.6	730.2	734.1	740.7	749.7	778.5	834.6	907.8	994.0
47°	727.6	724.9	724.9	726.2	728.9	734.1	743.2	768.1	828.2	897.3	995.4
48°	723.6	722.3	723.6	726.2	726.2	732.8	740.7	764.2	820.3	896.0	1012.3
49°	721.0	721.0	722.3	723.6	726.2	730.2	740.7	762.8	808.5	894.7	1001.9
50°	715.8	715.8	717.1	719.7	718.4	719.7	730.2	747.1	789.0	884.3	988.8
51°	700.1	698.8	700.1	701.4	701.4	704.1	713.1	730.2	769.4	864.7	962.7
52°	680.6	680.6	681.9	684.4	685.7	688.3	696.2	711.9	748.4	843.8	939.2
53°	651.8	654.4	660.9	660.9	663.5	667.5	676.6	692.3	726.2	808.5	909.1
54°	637.4	640.0	646.6	650.5	653.2	660.9	670.1	683.1	711.9	781.1	898.7
55°	604.8	607.4	612.6	619.2	621.8	629.6	638.7	654.4	684.4	747.1	851.7
56°	579.9	581.3	587.8	591.7	593.1	596.9	604.8	615.2	641.4	692.3	791.6
57°	557.8	555.1	559.1	564.3	565.6	569.5	577.3	585.2	607.4	655.7	743.2
58°	525.1	519.9	525.1	529.0	531.7	535.6	543.3	549.9	569.5	613.9	691.0
59°	499.0	501.6	506.9	510.7	513.3	517.2	521.2	529.0	546.0	581.3	654.4
60°	480.6	481.9	484.6	488.5	491.1	495.1	499.0	505.5	521.2	552.5	617.9
61°	465.0	465.0	468.9	472.9	472.9	476.8	479.4	484.6	499.0	525.1	583.9
62°	451.9	449.4	453.2	458.5	458.5	462.4	463.7	468.9	480.6	502.9	556.5
63°	436.3	437.6	438.9	444.1	444.1	448.1	448.1	454.5	462.4	483.3	531.7
64°	421.8	425.8	424.5	428.4	429.7	431.0	433.6	437.6	445.4	466.3	509.4
65°	416.7	416.7	420.6	421.8	423.2	425.8	428.4	432.3	440.2	457.1	502.9
66°	408.8	408.8	411.5	414.1	414.1	416.7	420.6	424.5	431.0	446.8	488.5
67°	401.0	401.0	402.3	404.9	404.9	406.2	410.2	414.1	421.8	437.6	476.8
68°	393.1	393.1	394.4	395.7	395.7	397.0	401.0	406.2	414.1	428.4	466.3
69°	388.0	382.7	386.7	386.7	386.7	389.3	390.6	395.7	406.2	421.8	455.8
70°	374.9	376.2	377.5	378.8	378.8	377.5	378.8	385.4	394.4	410.2	444.1
72.5°	357.9	359.2	360.6	360.6	359.2	359.2	360.6	364.4	372.2	388.0	419.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
75°	333.1	335.6	335.6	335.6	333.1	333.1	334.3	337.0	342.2	356.6	384.0
77.5°	317.4	316.1	317.4	316.1	314.8	314.8	313.5	314.8	318.7	331.8	356.6
80°	299.2	295.2	296.5	293.9	293.9	292.6	290.0	290.0	293.9	309.5	329.2
82.5°	275.7	274.3	275.7	274.3	271.7	269.1	266.5	267.8	271.7	278.2	299.2
85°	254.7	257.3	256.0	253.4	249.4	246.9	244.3	245.6	246.9	252.1	271.7
87.5°	239.1	237.7	239.1	235.1	232.5	229.9	227.3	225.9	227.3	232.5	243.0
90°	224.6	224.6	223.3	222.0	218.1	216.9	212.9	211.6	211.6	216.9	229.9
92.5°	214.3	212.9	210.3	210.3	205.1	201.1	199.8	198.5	197.2	202.5	214.3
95°	197.2	195.9	195.9	194.6	190.7	188.1	185.5	184.2	185.5	188.1	198.5
97.5°	172.4	176.3	172.4	172.4	168.5	167.2	165.9	163.2	163.2	167.2	175.0
100°	161.9	160.6	159.4	158.1	156.8	155.5	154.2	152.9	152.9	156.8	161.9
102.5°	146.3	142.4	142.4	137.1	137.1	137.1	135.8	135.8	137.1	142.4	145.0
105°	122.8	121.5	121.5	120.2	120.2	118.9	118.9	117.6	120.2	121.5	126.7
107.5°	104.5	104.5	104.5	103.1	103.1	103.1	103.1	103.1	103.1	105.8	109.7
110°	88.8	87.5	88.8	87.5	88.8	87.5	87.5	87.5	90.1	91.4	98.0
112.5°	70.6	71.9	73.1	71.9	71.9	73.1	73.1	73.1	74.4	75.7	78.3
115°	58.8	54.8	54.8	56.2	54.8	56.2	56.2	58.8	58.8	61.4	61.4
117.5°	45.7	45.7	45.7	47.0	47.0	47.0	48.3	49.6	49.6	50.9	52.2
120°	34.0	35.3	32.7	36.6	34.0	35.3	35.3	36.6	40.5	37.9	39.2
122.5°	27.4	27.4	27.4	28.7	28.7	28.7	28.7	30.0	30.0	30.0	31.4
125°	22.2	23.5	24.8	24.8	23.5	24.8	24.8	24.8	26.1	28.7	28.7
127.5°	18.2	16.9	18.2	18.2	19.6	19.6	18.2	18.2	19.6	19.6	20.9
130°	13.1	13.1	13.1	13.1	13.1	13.1	13.1	14.4	14.4	14.4	14.4
132.5°	3.9	5.2	5.2	5.2	5.2	6.6	5.2	6.6	6.6	5.2	6.6
135°	1.3	1.3	1.3	1.3	1.3	2.6	2.6	3.9	2.6	1.3	2.6
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°	1.3	1.3	1.3	0.0	1.3	2.6	1.3	1.3	1.3	0.0	1.3
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

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	466.3	466.3	466.3	466.3	466.3	466.3	466.3	466.3	466.3	466.3	466.3
2.5°	466.3	466.3	467.6	466.3	466.3	466.3	467.6	467.6	467.6	468.9	468.9
5°	461.1	465.0	465.0	467.6	468.9	470.3	471.6	470.3	471.6	471.6	472.9
7.5°	475.5	475.5	479.4	479.4	480.6	480.6	481.9	478.1	478.1	476.8	474.2
10°	502.9	505.5	506.9	508.2	506.9	505.5	502.9	502.9	502.9	500.3	499.0
12.5°	526.4	531.7	534.3	536.9	535.6	535.6	533.0	531.7	531.7	531.7	529.0
15°	547.3	551.2	555.1	557.8	557.8	556.5	557.8	553.8	553.8	549.9	546.0
17.5°	564.3	569.5	572.1	576.0	573.4	572.1	570.8	566.8	564.3	560.4	555.1
20°	582.6	586.5	590.4	594.4	593.1	590.4	586.5	582.6	577.3	573.4	565.6
22.5°	602.1	607.4	612.6	615.2	615.2	612.6	607.4	603.4	595.7	589.1	579.9
25°	625.6	632.2	638.7	641.4	642.7	640.0	632.2	626.9	620.5	611.3	602.1
27.5°	660.9	670.1	676.6	679.3	679.3	678.0	671.4	666.2	655.7	647.9	634.8
30°	694.9	710.6	722.3	734.1	728.9	723.6	719.7	711.9	698.8	685.7	668.8
32.5°	749.7	769.4	790.3	799.3	799.3	795.5	786.3	778.5	768.1	748.4	722.3
35°	804.6	829.4	854.3	858.1	856.9	855.6	847.7	847.7	837.3	805.9	775.8
37.5°	858.1	906.5	935.3	944.4	943.1	943.1	931.3	927.4	905.2	871.2	835.9
40°	923.5	991.4	1047.6	1063.2	1059.4	1052.8	1037.1	1029.3	1000.6	948.3	898.7
42.5°	1003.1	1075.0	1157.3	1184.7	1170.4	1158.6	1158.6	1136.4	1110.3	1055.4	988.8
45°	1072.4	1132.5	1254.0	1294.4	1272.2	1248.7	1257.9	1248.7	1217.4	1148.1	1076.3
46°	1089.4	1162.5	1304.9	1344.1	1316.7	1291.9	1302.3	1289.3	1255.3	1182.1	1091.9
47°	1114.2	1189.9	1342.8	1388.5	1358.4	1320.6	1346.7	1329.7	1285.3	1208.2	1109.0
48°	1125.9	1212.1	1379.4	1421.1	1409.4	1357.1	1387.2	1358.4	1325.8	1226.5	1123.3
49°	1119.4	1209.5	1381.9	1438.2	1425.1	1389.8	1410.6	1380.6	1321.9	1244.8	1128.5
50°	1114.2	1208.2	1376.8	1444.6	1452.5	1429.0	1429.0	1406.8	1334.9	1229.2	1144.3
51°	1088.1	1197.8	1355.8	1426.4	1461.7	1442.0	1460.4	1431.6	1355.8	1227.9	1122.0
52°	1050.2	1180.8	1333.6	1410.6	1435.6	1423.8	1457.7	1445.9	1365.0	1227.9	1095.9
53°	1014.9	1163.8	1293.2	1383.2	1402.9	1381.9	1409.4	1417.2	1324.4	1216.1	1055.4
54°	979.6	1114.2	1277.5	1404.2	1388.5	1361.0	1399.0	1397.6	1301.0	1152.0	1020.2
55°	931.3	1048.9	1213.4	1353.2	1387.2	1362.4	1392.4	1366.3	1242.2	1093.2	964.0
56°	875.2	994.0	1109.0	1244.8	1304.9	1329.7	1355.8	1320.6	1184.7	1046.3	916.9
57°	815.1	911.8	1009.7	1125.9	1218.7	1238.2	1256.6	1236.9	1105.0	979.6	864.7
58°	757.6	842.5	927.4	1034.5	1159.9	1191.3	1191.3	1176.9	1034.5	920.8	812.5
59°	718.4	792.9	864.7	965.3	1050.2	1067.1	1077.6	1069.8	966.6	863.4	770.6
60°	676.6	741.9	813.8	900.0	961.4	970.6	973.2	954.8	876.5	798.1	714.4
61°	637.4	698.8	757.6	833.3	889.5	901.3	901.3	877.8	812.5	736.7	670.1
62°	607.4	660.9	710.6	774.5	829.4	843.8	837.3	819.0	761.5	691.0	633.5
63°	579.9	629.6	674.0	726.2	770.6	783.7	777.2	764.2	714.4	654.4	603.4
64°	555.1	599.5	640.0	685.7	724.9	736.7	724.9	715.8	674.0	616.6	570.8
65°	543.3	585.2	620.5	659.6	689.6	696.2	688.3	674.0	640.0	593.1	548.6
66°	530.3	568.1	600.8	633.5	657.0	663.5	657.0	642.7	610.0	568.1	527.7
67°	515.9	551.2	582.6	612.6	632.2	636.1	632.2	619.2	586.5	547.3	509.4
68°	504.2	538.1	565.6	593.1	608.7	613.9	612.6	598.2	563.0	527.7	492.4
69°	493.7	525.1	553.8	576.0	591.7	593.1	593.1	579.9	547.3	513.3	479.4
70°	481.9	512.0	536.9	560.4	573.4	576.0	576.0	563.0	534.3	499.0	462.4
72.5°	458.5	484.6	510.7	529.0	542.0	546.0	549.9	536.9	504.2	471.6	437.6



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CATALOG NUMBER: MPW-AF-D-U-ASYM-7030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
75°	425.8	449.4	474.2	491.1	505.5	509.4	514.6	505.5	472.9	440.2	410.2
77.5°	393.1	416.7	441.5	462.4	478.1	483.3	487.2	478.1	445.4	415.4	382.7
80°	360.6	381.4	408.8	428.4	445.4	449.4	454.5	440.2	415.4	381.4	351.4
82.5°	330.5	350.1	374.9	394.4	411.5	418.0	415.4	404.9	377.5	347.4	321.3
85°	299.2	317.4	339.6	356.6	373.6	377.5	376.2	364.4	340.9	314.8	291.3
87.5°	273.0	290.0	308.2	320.0	335.6	338.3	337.0	325.3	305.6	284.7	263.9
90°	250.8	265.2	282.1	291.3	301.8	309.5	306.9	295.2	276.9	259.9	239.1
92.5°	235.1	245.6	258.6	267.8	274.3	279.5	279.5	269.1	253.4	236.4	220.7
95°	212.9	222.0	233.8	240.4	245.6	252.1	252.1	244.3	231.2	218.1	205.1
97.5°	188.1	194.6	201.1	206.4	210.3	215.6	212.9	209.0	201.1	190.7	181.6
100°	167.2	169.8	173.7	177.7	179.0	182.9	184.2	182.9	177.7	172.4	167.2
102.5°	148.9	151.5	151.5	152.9	152.9	151.5	152.9	151.5	150.2	151.5	146.3
105°	126.7	129.4	126.7	124.1	124.1	125.4	126.7	128.1	128.1	129.4	128.1
107.5°	112.3	112.3	111.0	108.4	108.4	108.4	108.4	108.4	111.0	112.3	111.0
110°	96.7	94.1	94.1	92.8	91.4	91.4	92.8	91.4	92.8	95.4	96.7
112.5°	79.6	78.3	77.0	75.7	73.1	74.4	77.0	77.0	79.6	81.0	81.0
115°	61.4	62.7	64.0	60.1	58.8	58.8	58.8	61.4	62.7	62.7	65.3
117.5°	52.2	53.5	52.2	52.2	50.9	50.9	52.2	52.2	54.8	57.5	57.5
120°	40.5	39.2	39.2	41.8	39.2	40.5	41.8	40.5	40.5	44.4	47.0
122.5°	32.7	34.0	34.0	32.7	34.0	35.3	34.0	35.3	34.0	35.3	36.6
125°	30.0	30.0	30.0	30.0	30.0	31.4	32.7	32.7	31.4	31.4	32.7
127.5°	22.2	23.5	23.5	24.8	24.8	24.8	26.1	26.1	24.8	24.8	24.8
130°	16.9	16.9	18.2	22.2	19.6	19.6	20.9	19.6	20.9	20.9	18.2
132.5°	6.6	7.9	7.9	9.2	10.5	11.8	11.8	11.8	10.5	11.8	10.5
135°	3.9	2.6	3.9	5.2	3.9	6.6	6.6	5.2	6.6	6.6	6.6
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°	2.6	1.3	1.3	1.3	1.3	0.0	0.0	0.0	1.3	2.6	1.3
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



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	466.3	466.3	466.3	466.3	466.3	466.3	466.3	466.3	466.3	466.3	466.3
2.5°	468.9	468.9	467.6	468.9	470.3	468.9	468.9	468.9	467.6	468.9	468.9
5°	472.9	472.9	474.2	472.9	474.2	474.2	474.2	472.9	471.6	471.6	468.9
7.5°	472.9	471.6	472.9	472.9	471.6	467.6	463.7	459.8	457.1	455.8	454.5
10°	496.4	492.4	487.2	480.6	474.2	467.6	462.4	455.8	449.4	446.8	441.5
12.5°	521.2	515.9	508.2	504.2	496.4	489.8	480.6	472.9	465.0	454.5	449.4
15°	540.7	536.9	530.3	522.5	510.7	500.3	489.8	480.6	472.9	466.3	459.8
17.5°	553.8	547.3	539.4	527.7	519.9	510.7	501.6	493.7	487.2	479.4	472.9
20°	560.4	552.5	544.7	538.1	530.3	521.2	514.6	505.5	497.7	487.2	480.6
22.5°	573.4	565.6	560.4	548.6	539.4	533.0	526.4	518.5	509.4	497.7	485.9
25°	591.7	582.6	572.1	563.0	556.5	548.6	538.1	523.8	513.3	502.9	495.1
27.5°	623.1	610.0	595.7	586.5	577.3	564.3	552.5	542.0	531.7	521.2	509.4
30°	649.2	628.2	613.9	602.1	585.2	574.7	563.0	551.2	539.4	530.3	522.5
32.5°	697.5	670.1	646.6	629.6	611.3	598.2	586.5	577.3	565.6	555.1	546.0
35°	741.9	710.6	681.9	655.7	638.7	625.6	611.3	598.2	586.5	576.0	568.1
37.5°	789.0	747.1	711.9	687.0	670.1	654.4	640.0	626.9	616.6	607.4	599.5
40°	847.7	792.9	752.4	724.9	704.1	687.0	671.4	657.0	647.9	638.7	632.2
42.5°	927.4	846.4	799.3	769.4	740.7	722.3	705.4	694.9	685.7	675.3	670.1
45°	980.9	896.0	829.4	791.6	768.1	752.4	741.9	730.2	727.6	717.1	708.0
46°	994.0	898.7	837.3	791.6	774.5	760.2	748.4	741.9	736.7	728.9	719.7
47°	992.7	896.0	833.3	791.6	775.8	765.5	756.3	755.0	744.5	736.7	732.8
48°	991.4	909.1	841.2	800.7	787.6	774.5	765.5	760.2	755.0	747.1	739.4
49°	988.8	903.9	842.5	808.5	796.8	782.4	771.9	765.5	758.9	752.4	745.8
50°	990.1	902.6	839.9	815.1	804.6	791.6	778.5	769.4	764.2	757.6	749.7
51°	983.6	893.4	833.3	813.8	805.9	789.0	777.2	770.6	766.8	760.2	753.7
52°	969.2	884.3	826.9	805.9	800.7	783.7	770.6	765.5	761.5	755.0	748.4
53°	931.3	847.7	794.2	779.8	773.2	761.5	757.6	755.0	752.4	748.4	740.7
54°	892.1	817.7	777.2	764.2	758.9	749.7	744.5	748.4	744.5	744.5	736.7
55°	859.4	790.3	757.6	745.8	740.7	732.8	727.6	728.9	728.9	727.6	719.7
56°	829.4	771.9	739.4	726.2	721.0	714.4	711.9	711.9	711.9	709.3	702.8
57°	790.3	741.9	721.0	711.9	706.7	700.1	700.1	698.8	696.2	692.3	689.6
58°	748.4	698.8	679.3	668.8	667.5	662.2	663.5	664.8	664.8	660.9	659.6
59°	706.7	663.5	644.0	637.4	632.2	632.2	633.5	634.8	636.1	636.1	632.2
60°	659.6	620.5	604.8	600.8	599.5	599.5	599.5	603.4	606.1	607.4	607.4
61°	624.4	589.1	573.4	569.5	569.5	569.5	570.8	574.7	576.0	577.3	576.0
62°	591.7	559.1	544.7	543.3	543.3	544.7	544.7	548.6	548.6	549.9	548.6
63°	560.4	531.7	521.2	517.2	519.9	519.9	518.5	522.5	526.4	525.1	522.5
64°	529.0	505.5	495.1	493.7	492.4	493.7	492.4	496.4	497.7	497.7	500.3
65°	513.3	491.1	479.4	476.8	479.4	478.1	481.9	483.3	484.6	485.9	484.6
66°	496.4	475.5	466.3	461.1	462.4	462.4	466.3	467.6	470.3	468.9	472.9
67°	481.9	459.8	450.6	448.1	448.1	448.1	449.4	453.2	454.5	457.1	457.1
68°	466.3	446.8	440.2	437.6	437.6	436.3	437.6	441.5	442.8	445.4	446.8
69°	453.2	435.0	428.4	424.5	427.1	424.5	425.8	432.3	431.0	433.6	441.5
70°	441.5	423.2	418.0	418.0	415.4	416.7	416.7	419.3	420.6	425.8	424.5
72.5°	419.3	403.6	395.7	397.0	397.0	397.0	398.4	401.0	402.3	406.2	408.8



REPORT NUMBER: P212612
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REPORT N
CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°	
75°	388.0	374.9	370.9	370.9	370.9	373.6	373.6	374.9	381.4	384.0	384.0	0°
77.5°	365.7	352.7	348.8	348.8	351.4	352.7	355.3	357.9	360.6	365.7	367.0	2.5°
80°	335.6	325.3	324.0	325.3	327.9	330.5	333.1	339.6	342.2	343.5	351.4	5°
82.5°	309.5	299.2	299.2	301.8	305.6	308.2	313.5	316.1	318.7	322.6	325.3	7.5°
85°	279.5	271.7	274.3	276.9	283.4	284.7	287.4	292.6	296.5	297.8	301.8	10°
87.5°	253.4	249.4	250.8	254.7	258.6	265.2	267.8	270.4	275.7	278.2	278.2	12.5°
90°	232.5	228.6	232.5	237.7	241.7	244.3	248.1	250.8	254.7	256.0	257.3	15°
92.5°	215.6	212.9	216.9	222.0	225.9	227.3	229.9	236.4	237.7	240.4	240.4	17.5°
95°	199.8	198.5	202.5	206.4	210.3	214.3	216.9	220.7	224.6	225.9	225.9	20°
97.5°	177.7	176.3	180.3	188.1	189.3	190.7	193.3	195.9	201.1	202.5	201.1	22.5°
100°	165.9	164.5	165.9	171.1	172.4	177.7	179.0	182.9	184.2	186.8	185.5	25°
102.5°	143.7	145.0	147.6	147.6	152.9	152.9	156.8	159.4	160.6	164.5	169.8	27.5°
105°	128.1	128.1	129.4	129.4	131.9	133.2	133.2	137.1	139.7	139.7	141.1	30°
107.5°	112.3	112.3	113.6	114.9	116.3	116.3	117.6	120.2	120.2	122.8	122.8	32.5°
110°	96.7	99.3	98.0	98.0	98.0	100.6	101.8	101.8	103.1	104.5	104.5	35°
112.5°	82.3	82.3	82.3	83.6	84.9	84.9	86.2	86.2	87.5	88.8	88.8	37.5°
115°	66.6	66.6	68.0	66.6	65.3	66.6	66.6	68.0	69.3	68.0	75.7	40°
117.5°	58.8	57.5	56.2	57.5	56.2	56.2	56.2	57.5	58.8	58.8	61.4	42.5°
120°	43.2	43.2	43.2	43.2	45.7	43.2	43.2	41.8	44.4	43.2	44.4	45°
122.5°	36.6	35.3	35.3	35.3	35.3	35.3	35.3	36.6	35.3	36.6	35.3	46°
125°	31.4	31.4	34.0	31.4	30.0	31.4	31.4	31.4	31.4	32.7	37.9	47°
127.5°	24.8	26.1	24.8	24.8	24.8	26.1	24.8	24.8	26.1	27.4	26.1	48°
130°	20.9	18.2	19.6	19.6	19.6	19.6	19.6	19.6	20.9	23.5	22.2	49°
132.5°	10.5	10.5	10.5	11.8	13.1	13.1	11.8	13.1	13.1	14.4	13.1	50°
135°	7.9	9.2	6.6	6.6	9.2	7.9	10.5	9.2	9.2	9.2	7.9	51°
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52°
140°	2.6	2.6	1.3	1.3	1.3	2.6	1.3	2.6	1.3	2.6	2.6	53°
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54°
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55°
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56°
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57°
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	58°
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59°
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	61°
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62°
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63°
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	64°
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66°
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67°
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	68°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	69°
												70°
												72.5°



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NUMBER: MPW-AF-D-U-ASYM-7030

REPORT NUMBER: P

CATALOG NUMBER:

DISTRIBUTION (continued):

165°	170°	175°	180°
466.3	466.3	466.3	466.3
468.9	466.3	467.6	467.6
468.9	468.9	468.9	466.3
451.9	453.2	451.9	451.9
438.9	436.3	435.0	433.6
446.8	445.4	444.1	444.1
455.8	453.2	451.9	451.9
466.3	463.7	459.8	465.0
475.5	471.6	467.6	467.6
478.1	474.2	470.3	468.9
484.6	478.1	474.2	474.2
501.6	495.1	492.4	491.1
513.3	508.2	501.6	500.3
538.1	533.0	530.3	527.7
563.0	557.8	555.1	552.5
595.7	587.8	583.9	582.6
626.9	620.5	616.6	620.5
663.5	657.0	654.4	651.8
702.8	694.9	687.0	687.0
713.1	706.7	702.8	701.4
723.6	717.1	709.3	706.7
735.4	726.2	719.7	719.7
738.0	731.5	724.9	722.3
743.2	738.0	730.2	728.9
745.8	738.0	730.2	728.9
741.9	735.4	728.9	727.6
736.7	728.9	721.0	726.2
730.2	723.6	717.1	715.8
715.8	709.3	702.8	702.8
698.8	693.6	687.0	684.4
685.7	675.3	666.2	667.5
653.2	647.9	641.4	640.0
626.9	625.6	621.8	620.5
604.8	600.8	598.2	596.9
572.1	572.1	566.8	565.6
547.3	544.7	542.0	542.0
525.1	522.5	521.2	522.5
500.3	501.6	497.7	500.3
487.2	488.5	487.2	484.6
472.9	474.2	471.6	472.9
461.1	461.1	459.8	458.5
450.6	450.6	448.1	448.1
437.6	440.2	438.9	437.6
429.7	429.7	431.0	427.1
410.2	412.8	412.8	412.8

CANDELA DISTRIBUTION:

	165°
75°	386.7
77.5°	369.6
80°	348.8
82.5°	326.6
85°	303.1
87.5°	278.2
90°	259.9
92.5°	240.4
95°	228.6
97.5°	203.8
100°	188.1
102.5°	164.5
105°	141.1
107.5°	122.8
110°	104.5
112.5°	90.1
115°	70.6
117.5°	60.1
120°	45.7
122.5°	37.9
125°	34.0
127.5°	26.1
130°	20.9
132.5°	13.1
135°	10.5
137.5°	0.0
140°	2.6
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0



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MPW-AF-D-U-ASYM-7030

TION (continued):

[illegible]

(END OF REPORT)