

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: P212611

Luminaire Tested: **MPW-AF-D-U-ASYM-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P212611
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-8030
Description: WOODBRIDGE LED POST-TOP LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND ASYMMETRIC OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3448 lumens
Efficiency: N/A
Efficacy: 59.4 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



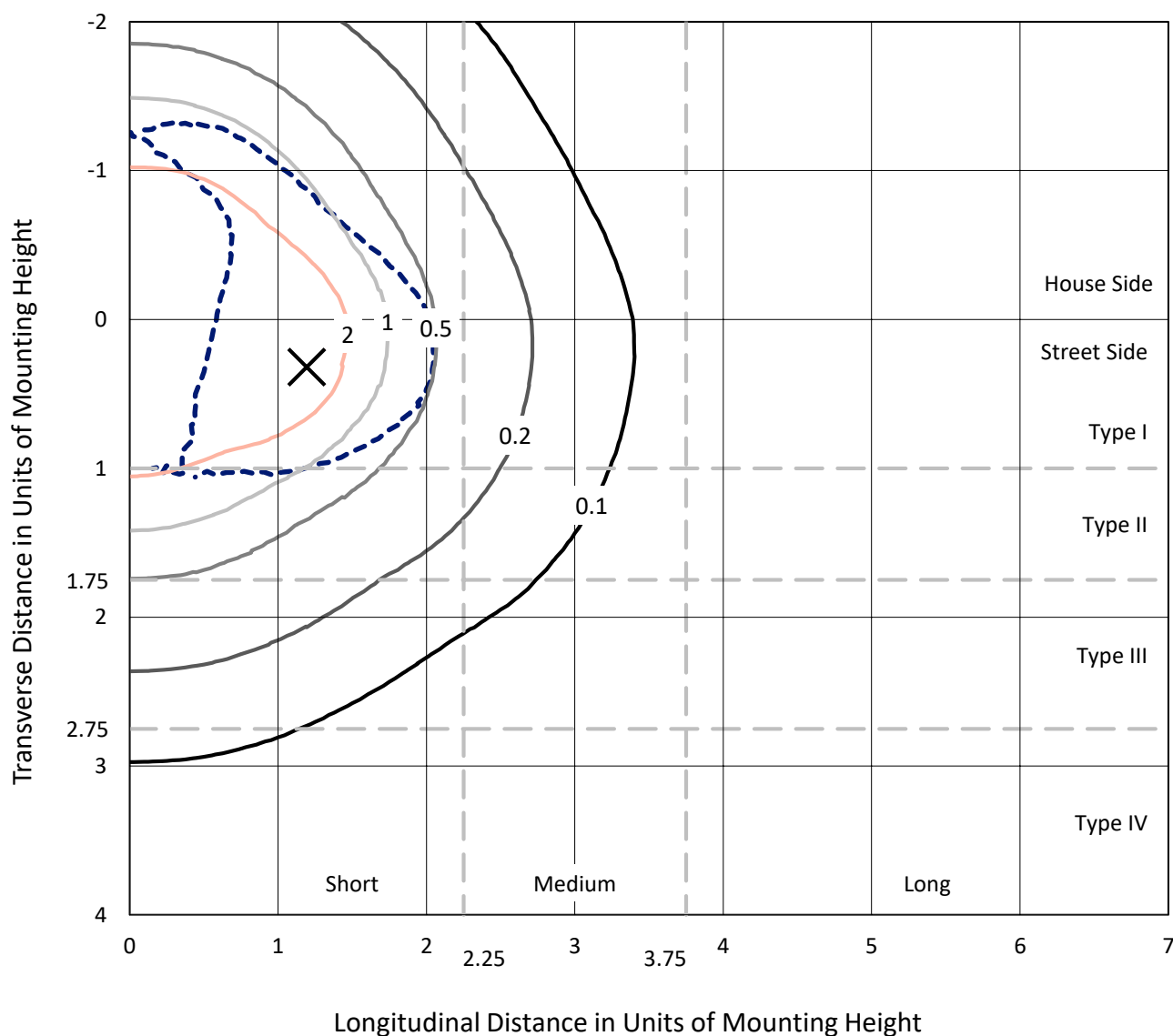
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

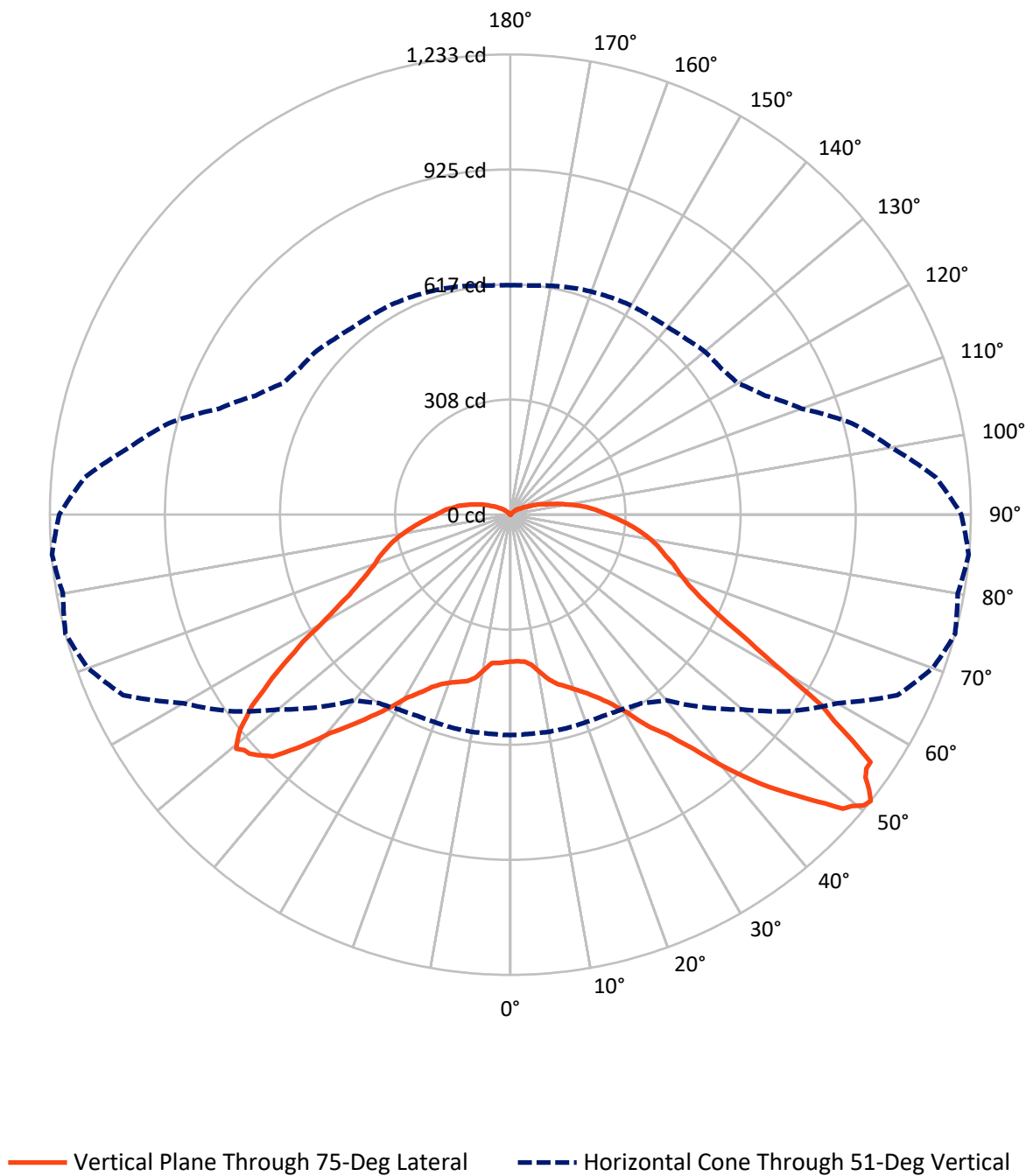


Based on 10 foot mounting height. Maximum calculated value = 4.2 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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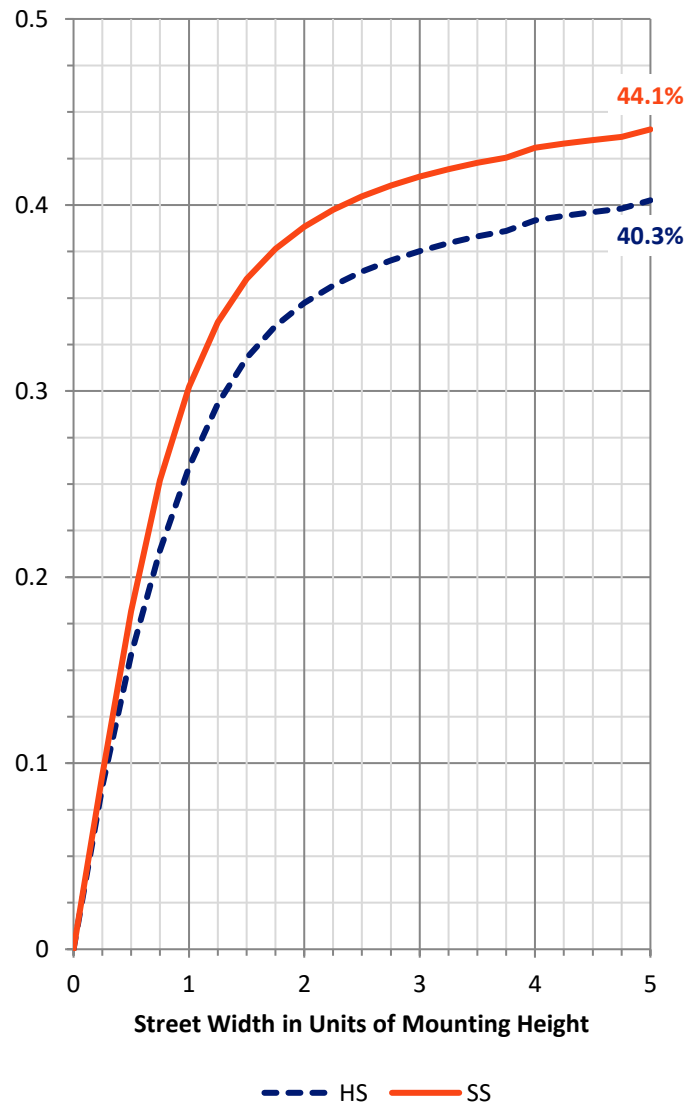
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1466.7	204.4	1671.1
	% Fixture	42.5	5.9	48.5
Street Side	Lumens	1587.3	189.7	1776.9
	% Fixture	46.0	5.5	51.5
Total	Lumens	3053.9	394.0	3448.0
	% Fixture	88.6	11.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.8	1.1
10°-20°	124.6	3.6
20°-30°	228.1	6.6
30°-40°	376.4	10.9
40°-50°	585.7	17.0
50°-60°	632.6	18.3
60°-70°	440.5	12.8
70°-80°	355.6	10.3
80°-90°	272.7	7.9
90°-100°	194.4	5.6
100°-110°	117.2	3.4
110°-120°	55.8	1.6
120°-130°	22.2	0.6
130°-140°	4.3	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°	3053.9	88.6
0°-180°	3448.0	100.0

Coefficient of Utilization



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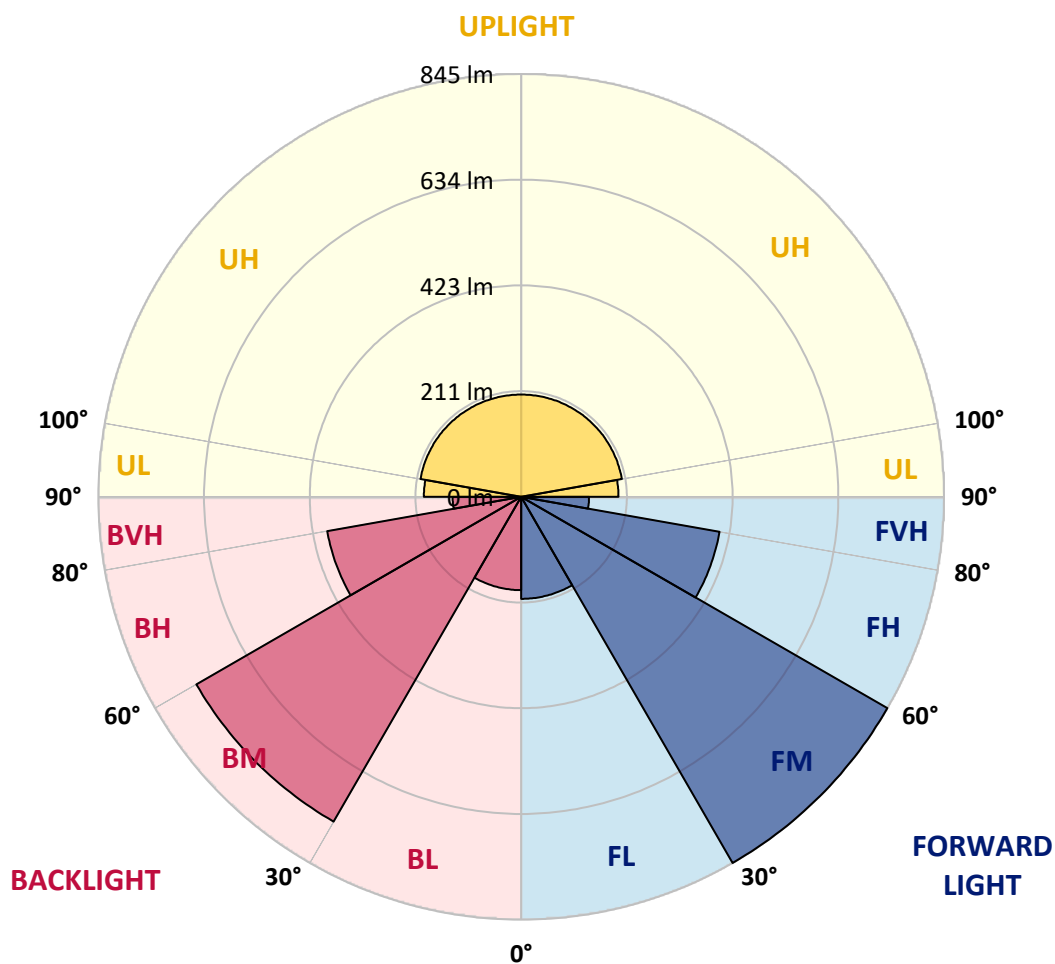
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	204.0	5.9			
FM	(30°-60°)	845.1	24.5			
FH	(60°-80°)	402.5	11.7			G0/660
FVH	(80°-90°)	135.7	3.9			G2/225
BL	(0°-30°)	186.5	5.4	B1/500		
BM	(30°-60°)	749.6	21.7	B1/1000		
BH	(60°-80°)	393.6	11.4	B1/500		G1/500
BVH	(80°-90°)	137.0	4.0			G2/225
UL	(90°-100°)	194.4	5.6		U3/500	
UH	(100°-180°)	204.4	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°	393.4	393.4	393.4	393.4	393.4	393.4	393.4	393.4	393.4	393.4	393.4
2.5°	391.2	391.2	391.2	391.2	392.3	391.2	392.3	391.2	392.3	392.3	393.4
5°	377.9	377.9	380.1	380.1	381.2	382.3	384.6	384.6	386.8	387.9	389.0
7.5°	384.6	385.7	385.7	384.6	385.7	387.9	389.0	391.2	394.5	396.7	400.0
10°	397.8	396.7	397.8	397.8	398.9	401.1	404.4	408.8	411.0	415.4	419.8
12.5°	413.2	413.2	415.4	415.4	417.6	420.9	426.4	428.6	431.9	437.4	441.9
15°	431.9	431.9	433.0	434.1	436.3	440.7	445.2	448.5	450.7	454.0	457.3
17.5°	452.9	455.1	456.2	458.4	459.5	462.8	465.0	466.1	467.2	468.3	471.6
20°	470.5	470.5	472.7	474.9	477.1	482.6	483.7	483.7	482.6	484.8	487.0
22.5°	470.5	469.4	474.9	482.6	488.1	493.6	496.9	499.1	501.4	500.2	503.6
25°	460.6	461.7	467.2	476.0	488.1	498.0	506.9	512.4	517.9	519.0	523.4
27.5°	474.9	474.9	480.4	488.1	498.0	509.1	520.1	531.1	538.8	546.5	552.0
30°	487.0	489.2	495.8	505.8	513.5	524.5	536.6	549.8	560.9	570.8	578.5
32.5°	509.1	510.2	514.6	521.2	532.2	545.4	559.8	575.2	591.7	603.8	615.9
35°	533.3	530.0	530.0	535.5	544.3	556.4	573.0	592.8	623.7	640.2	656.7
37.5°	552.0	552.0	553.1	556.4	560.9	569.7	585.1	609.3	645.7	683.2	699.7
40°	580.7	580.7	579.6	582.9	587.3	595.0	608.2	631.4	662.2	723.9	766.9
42.5°	601.6	600.5	601.6	606.0	607.1	612.6	625.9	651.2	684.3	741.6	816.5
45°	613.7	613.7	612.6	614.8	618.2	624.8	633.6	658.9	701.9	760.3	837.4
46°	614.8	614.8	613.7	615.9	619.3	624.8	632.5	656.7	704.1	765.8	838.5
47°	613.7	611.5	611.5	612.6	614.8	619.3	627.0	647.9	698.6	757.0	839.6
48°	610.4	609.3	610.4	612.6	612.6	618.2	624.8	644.6	692.0	755.9	854.0
49°	608.2	608.2	609.3	610.4	612.6	615.9	624.8	643.5	682.1	754.8	845.1
50°	603.8	603.8	604.9	607.1	606.0	607.1	615.9	630.3	665.5	746.0	834.1
51°	590.6	589.5	590.6	591.7	591.7	593.9	601.6	615.9	649.0	729.4	812.1
52°	574.1	574.1	575.2	577.4	578.5	580.7	587.3	600.5	631.4	711.8	792.2
53°	549.8	552.0	557.5	557.5	559.8	563.1	570.8	584.0	612.6	682.1	766.9
54°	537.7	539.9	545.4	548.7	550.9	557.5	565.3	576.3	600.5	658.9	758.1
55°	510.2	512.4	516.8	522.3	524.5	531.1	538.8	552.0	577.4	630.3	718.4
56°	489.2	490.3	495.8	499.1	500.2	503.6	510.2	519.0	541.0	584.0	667.7
57°	470.5	468.3	471.6	476.0	477.1	480.4	487.0	493.6	512.4	553.1	627.0
58°	443.0	438.5	443.0	446.3	448.5	451.8	458.4	463.9	480.4	517.9	582.9
59°	420.9	423.1	427.5	430.8	433.0	436.3	439.6	446.3	460.6	490.3	552.0
60°	405.5	406.6	408.8	412.1	414.3	417.6	420.9	426.4	439.6	466.1	521.2
61°	392.3	392.3	395.6	398.9	398.9	402.2	404.4	408.8	420.9	443.0	492.5
62°	381.2	379.0	382.3	386.8	386.8	390.1	391.2	395.6	405.5	424.2	469.4
63°	368.0	369.1	370.2	374.6	374.6	377.9	377.9	383.5	390.1	407.7	448.5
64°	355.9	359.2	358.1	361.4	362.5	363.6	365.8	369.1	375.7	393.4	429.7
65°	351.5	351.5	354.8	355.9	357.0	359.2	361.4	364.7	371.3	385.7	424.2
66°	344.9	344.9	347.1	349.3	349.3	351.5	354.8	358.1	363.6	376.8	412.1
67°	338.3	338.3	339.4	341.6	341.6	342.7	346.0	349.3	355.9	369.1	402.2
68°	331.7	331.7	332.8	333.9	333.9	335.0	338.3	342.7	349.3	361.4	393.4
69°	327.3	322.8	326.2	326.2	326.2	328.4	329.5	333.9	342.7	355.9	384.6
70°	316.2	317.3	318.4	319.5	319.5	318.4	319.5	325.1	332.8	346.0	374.6
72.5°	301.9	303.0	304.1	304.1	303.0	303.0	304.1	307.4	314.0	327.3	353.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
75°	281.0	283.2	283.2	283.2	281.0	281.0	282.1	284.3	288.7	300.8	324.0
77.5°	267.8	266.7	267.8	266.7	265.6	265.6	264.4	265.6	268.9	279.9	300.8
80°	252.3	249.0	250.1	247.9	247.9	246.8	244.6	244.6	247.9	261.1	277.7
82.5°	232.5	231.4	232.5	231.4	229.2	227.0	224.8	225.9	229.2	234.7	252.3
85°	214.9	217.1	216.0	213.8	210.5	208.3	206.1	207.2	208.3	212.7	229.2
87.5°	201.6	200.5	201.6	198.3	196.1	193.9	191.7	190.6	191.7	196.1	204.9
90°	189.5	189.5	188.4	187.3	184.0	182.9	179.6	178.5	178.5	182.9	193.9
92.5°	180.7	179.6	177.4	177.4	173.0	169.7	168.6	167.5	166.4	170.8	180.7
95°	166.4	165.3	165.3	164.2	160.9	158.7	156.5	155.4	156.5	158.7	167.5
97.5°	145.4	148.8	145.4	145.4	142.1	141.0	139.9	137.7	137.7	141.0	147.7
100°	136.6	135.5	134.4	133.3	132.2	131.1	130.0	128.9	128.9	132.2	136.6
102.5°	123.4	120.1	120.1	115.7	115.7	115.7	114.6	114.6	115.7	120.1	122.3
105°	103.6	102.5	102.5	101.4	101.4	100.3	100.3	99.2	101.4	102.5	106.9
107.5°	88.1	88.1	88.1	87.0	87.0	87.0	87.0	87.0	87.0	89.3	92.6
110°	74.9	73.8	74.9	73.8	74.9	73.8	73.8	73.8	76.0	77.1	82.6
112.5°	59.5	60.6	61.7	60.6	60.6	61.7	61.7	61.7	62.8	63.9	66.1
115°	49.6	46.3	46.3	47.4	46.3	47.4	47.4	49.6	49.6	51.8	51.8
117.5°	38.6	38.6	38.6	39.7	39.7	39.7	40.8	41.9	41.9	43.0	44.1
120°	28.6	29.8	27.5	30.9	28.6	29.8	29.8	30.9	34.2	32.0	33.1
122.5°	23.1	23.1	23.1	24.2	24.2	24.2	24.2	25.3	25.3	25.3	26.4
125°	18.7	19.8	20.9	20.9	19.8	20.9	20.9	20.9	22.0	24.2	24.2
127.5°	15.4	14.3	15.4	15.4	16.5	16.5	15.4	15.4	16.5	16.5	17.6
130°	11.0	11.0	11.0	11.0	11.0	11.0	11.0	12.1	12.1	12.1	12.1
132.5°	3.3	4.4	4.4	4.4	4.4	5.5	4.4	5.5	5.5	4.4	5.5
135°	1.1	1.1	1.1	1.1	1.1	2.2	2.2	3.3	2.2	1.1	2.2
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°	1.1	1.1	1.1	0.0	1.1	2.2	1.1	1.1	1.1	0.0	1.1
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°	393.4	393.4	393.4	393.4	393.4	393.4	393.4	393.4	393.4	393.4	393.4
2.5°	393.4	393.4	394.5	393.4	393.4	393.4	394.5	394.5	394.5	395.6	395.6
5°	389.0	392.3	392.3	394.5	395.6	396.7	397.8	396.7	397.8	397.8	398.9
7.5°	401.1	401.1	404.4	404.4	405.5	405.5	406.6	403.3	403.3	402.2	400.0
10°	424.2	426.4	427.5	428.6	427.5	426.4	424.2	424.2	424.2	422.0	420.9
12.5°	444.1	448.5	450.7	452.9	451.8	451.8	449.6	448.5	448.5	448.5	446.3
15°	461.7	465.0	468.3	470.5	470.5	469.4	470.5	467.2	467.2	463.9	460.6
17.5°	476.0	480.4	482.6	485.9	483.7	482.6	481.5	478.2	476.0	472.7	468.3
20°	491.4	494.7	498.0	501.4	500.2	498.0	494.7	491.4	487.0	483.7	477.1
22.5°	508.0	512.4	516.8	519.0	519.0	516.8	512.4	509.1	502.5	496.9	489.2
25°	527.8	533.3	538.8	541.0	542.1	539.9	533.3	528.9	523.4	515.7	508.0
27.5°	557.5	565.3	570.8	573.0	573.0	571.9	566.4	562.0	553.1	546.5	535.5
30°	586.2	599.4	609.3	619.3	614.8	610.4	607.1	600.5	589.5	578.5	564.2
32.5°	632.5	649.0	666.6	674.3	674.3	671.0	663.3	656.7	647.9	631.4	609.3
35°	678.8	699.7	720.6	723.9	722.8	721.7	715.1	715.1	706.3	679.9	654.5
37.5°	723.9	764.7	788.9	796.7	795.6	795.6	785.6	782.3	763.6	734.9	705.2
40°	779.0	836.3	883.7	896.9	893.6	888.1	874.9	868.3	844.0	800.0	758.1
42.5°	846.2	906.8	976.3	999.4	987.3	977.4	977.4	958.6	936.6	890.3	834.1
45°	904.6	955.3	1057.8	1092.0	1073.2	1053.4	1061.1	1053.4	1026.9	968.5	907.9
46°	919.0	980.7	1100.8	1133.8	1110.7	1089.8	1098.6	1087.5	1058.9	997.2	921.2
47°	939.9	1003.8	1132.7	1171.3	1145.9	1114.0	1136.0	1121.7	1084.2	1019.2	935.5
48°	949.8	1022.5	1163.6	1198.8	1188.9	1144.8	1170.2	1145.9	1118.4	1034.7	947.6
49°	944.3	1020.3	1165.8	1213.2	1202.1	1172.4	1190.0	1164.7	1115.1	1050.1	952.0
50°	939.9	1019.2	1161.4	1218.7	1225.3	1205.4	1205.4	1186.7	1126.1	1036.9	965.2
51°	917.9	1010.4	1143.7	1203.2	1233.0	1216.5	1231.9	1207.7	1143.7	1035.8	946.5
52°	885.9	996.1	1125.0	1190.0	1211.0	1201.0	1229.7	1219.8	1151.5	1035.8	924.5
53°	856.2	981.8	1090.9	1166.9	1183.4	1165.8	1188.9	1195.5	1117.3	1025.8	890.3
54°	826.4	939.9	1077.6	1184.5	1171.3	1148.2	1180.1	1179.0	1097.5	971.9	860.6
55°	785.6	884.8	1023.6	1141.5	1170.2	1149.3	1174.6	1152.6	1047.9	922.3	813.2
56°	738.3	838.5	935.5	1050.1	1100.8	1121.7	1143.7	1114.0	999.4	882.6	773.5
57°	687.6	769.1	851.7	949.8	1028.0	1044.6	1060.0	1043.5	932.2	826.4	729.4
58°	639.1	710.7	782.3	872.7	978.5	1004.9	1004.9	992.8	872.7	776.8	685.4
59°	606.0	668.8	729.4	814.3	885.9	900.2	909.0	902.4	815.4	728.3	650.1
60°	570.8	625.9	686.5	759.2	811.0	818.7	820.9	805.5	739.4	673.2	602.7
61°	537.7	589.5	639.1	703.0	750.4	760.3	760.3	740.5	685.4	621.5	565.3
62°	512.4	557.5	599.4	653.4	699.7	711.8	706.3	690.9	642.4	582.9	534.4
63°	489.2	531.1	568.6	612.6	650.1	661.1	655.6	644.6	602.7	552.0	509.1
64°	468.3	505.8	539.9	578.5	611.5	621.5	611.5	603.8	568.6	520.1	481.5
65°	458.4	493.6	523.4	556.4	581.8	587.3	580.7	568.6	539.9	500.2	462.8
66°	447.4	479.3	506.9	534.4	554.2	559.8	554.2	542.1	514.6	479.3	445.2
67°	435.2	465.0	491.4	516.8	533.3	536.6	533.3	522.3	494.7	461.7	429.7
68°	425.3	454.0	477.1	500.2	513.5	517.9	516.8	504.7	474.9	445.2	415.4
69°	416.5	443.0	467.2	485.9	499.1	500.2	500.2	489.2	461.7	433.0	404.4
70°	406.6	431.9	452.9	472.7	483.7	485.9	485.9	474.9	450.7	420.9	390.1
72.5°	386.8	408.8	430.8	446.3	457.3	460.6	463.9	452.9	425.3	397.8	369.1



REPORT NUMBER: P212611

CATALOG NUMBER: MPW-AF-D-U-ASYM-8030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
75°	359.2	379.0	400.0	414.3	426.4	429.7	434.1	426.4	398.9	371.3	346.0
77.5°	331.7	351.5	372.4	390.1	403.3	407.7	411.0	403.3	375.7	350.4	322.8
80°	304.1	321.7	344.9	361.4	375.7	379.0	383.5	371.3	350.4	321.7	296.4
82.5°	278.8	295.3	316.2	332.8	347.1	352.6	350.4	341.6	318.4	293.1	271.1
85°	252.3	267.8	286.5	300.8	315.1	318.4	317.3	307.4	287.6	265.6	245.7
87.5°	230.3	244.6	260.0	270.0	283.2	285.4	284.3	274.4	257.8	240.2	222.6
90°	211.6	223.7	238.0	245.7	254.5	261.1	258.9	249.0	233.6	219.3	201.6
92.5°	198.3	207.2	218.2	225.9	231.4	235.8	235.8	227.0	213.8	199.4	186.2
95°	179.6	187.3	197.2	202.7	207.2	212.7	212.7	206.1	195.0	184.0	173.0
97.5°	158.7	164.2	169.7	174.1	177.4	181.8	179.6	176.3	169.7	160.9	153.2
100°	141.0	143.2	146.5	149.9	151.0	154.3	155.4	154.3	149.9	145.4	141.0
102.5°	125.6	127.8	127.8	128.9	128.9	127.8	128.9	127.8	126.7	127.8	123.4
105°	106.9	109.1	106.9	104.7	104.7	105.8	106.9	108.0	108.0	109.1	108.0
107.5°	94.8	94.8	93.7	91.5	91.5	91.5	91.5	91.5	93.7	94.8	93.7
110°	81.5	79.3	79.3	78.2	77.1	77.1	78.2	77.1	78.2	80.4	81.5
112.5°	67.2	66.1	65.0	63.9	61.7	62.8	65.0	65.0	67.2	68.3	68.3
115°	51.8	52.9	54.0	50.7	49.6	49.6	49.6	51.8	52.9	52.9	55.1
117.5°	44.1	45.2	44.1	44.1	43.0	43.0	44.1	44.1	46.3	48.5	48.5
120°	34.2	33.1	33.1	35.3	33.1	34.2	35.3	34.2	34.2	37.5	39.7
122.5°	27.5	28.6	28.6	27.5	28.6	29.8	28.6	29.8	28.6	29.8	30.9
125°	25.3	25.3	25.3	25.3	25.3	26.4	27.5	27.5	26.4	26.4	27.5
127.5°	18.7	19.8	19.8	20.9	20.9	20.9	22.0	22.0	20.9	20.9	20.9
130°	14.3	14.3	15.4	18.7	16.5	16.5	17.6	16.5	17.6	17.6	15.4
132.5°	5.5	6.6	6.6	7.7	8.8	9.9	9.9	9.9	8.8	9.9	8.8
135°	3.3	2.2	3.3	4.4	3.3	5.5	5.5	4.4	5.5	5.5	5.5
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°	2.2	1.1	1.1	1.1	1.1	0.0	0.0	0.0	1.1	2.2	1.1
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°	393.4	393.4	393.4	393.4	393.4	393.4	393.4	393.4	393.4	393.4	393.4
2.5°	395.6	395.6	394.5	395.6	396.7	395.6	395.6	395.6	394.5	395.6	395.6
5°	398.9	398.9	400.0	398.9	400.0	400.0	400.0	398.9	397.8	397.8	395.6
7.5°	398.9	397.8	398.9	398.9	397.8	394.5	391.2	387.9	385.7	384.6	383.5
10°	418.7	415.4	411.0	405.5	400.0	394.5	390.1	384.6	379.0	376.8	372.4
12.5°	439.6	435.2	428.6	425.3	418.7	413.2	405.5	398.9	392.3	383.5	379.0
15°	456.2	452.9	447.4	440.7	430.8	422.0	413.2	405.5	398.9	393.4	387.9
17.5°	467.2	461.7	455.1	445.2	438.5	430.8	423.1	416.5	411.0	404.4	398.9
20°	472.7	466.1	459.5	454.0	447.4	439.6	434.1	426.4	419.8	411.0	405.5
22.5°	483.7	477.1	472.7	462.8	455.1	449.6	444.1	437.4	429.7	419.8	409.9
25°	499.1	491.4	482.6	474.9	469.4	462.8	454.0	441.9	433.0	424.2	417.6
27.5°	525.6	514.6	502.5	494.7	487.0	476.0	466.1	457.3	448.5	439.6	429.7
30°	547.6	530.0	517.9	508.0	493.6	484.8	474.9	465.0	455.1	447.4	440.7
32.5°	588.4	565.3	545.4	531.1	515.7	504.7	494.7	487.0	477.1	468.3	460.6
35°	625.9	599.4	575.2	553.1	538.8	527.8	515.7	504.7	494.7	485.9	479.3
37.5°	665.5	630.3	600.5	579.6	565.3	552.0	539.9	528.9	520.1	512.4	505.8
40°	715.1	668.8	634.7	611.5	593.9	579.6	566.4	554.2	546.5	538.8	533.3
42.5°	782.3	714.0	674.3	649.0	624.8	609.3	595.0	586.2	578.5	569.7	565.3
45°	827.5	755.9	699.7	667.7	647.9	634.7	625.9	615.9	613.7	604.9	597.2
46°	838.5	758.1	706.3	667.7	653.4	641.3	631.4	625.9	621.5	614.8	607.1
47°	837.4	755.9	703.0	667.7	654.5	645.7	638.0	636.9	628.1	621.5	618.2
48°	836.3	766.9	709.6	675.4	664.4	653.4	645.7	641.3	636.9	630.3	623.7
49°	834.1	762.5	710.7	682.1	672.1	660.0	651.2	645.7	640.2	634.7	629.2
50°	835.2	761.4	708.5	687.6	678.8	667.7	656.7	649.0	644.6	639.1	632.5
51°	829.7	753.7	703.0	686.5	679.9	665.5	655.6	650.1	646.8	641.3	635.8
52°	817.6	746.0	697.5	679.9	675.4	661.1	650.1	645.7	642.4	636.9	631.4
53°	785.6	715.1	669.9	657.8	652.3	642.4	639.1	636.9	634.7	631.4	624.8
54°	752.6	689.8	655.6	644.6	640.2	632.5	628.1	631.4	628.1	628.1	621.5
55°	725.0	666.6	639.1	629.2	624.8	618.2	613.7	614.8	614.8	613.7	607.1
56°	699.7	651.2	623.7	612.6	608.2	602.7	600.5	600.5	600.5	598.3	592.8
57°	666.6	625.9	608.2	600.5	596.1	590.6	590.6	589.5	587.3	584.0	581.8
58°	631.4	589.5	573.0	564.2	563.1	558.6	559.8	560.9	560.9	557.5	556.4
59°	596.1	559.8	543.2	537.7	533.3	533.3	534.4	535.5	536.6	536.6	533.3
60°	556.4	523.4	510.2	506.9	505.8	505.8	505.8	509.1	511.3	512.4	512.4
61°	526.7	496.9	483.7	480.4	480.4	480.4	481.5	484.8	485.9	487.0	485.9
62°	499.1	471.6	459.5	458.4	458.4	459.5	459.5	462.8	462.8	463.9	462.8
63°	472.7	448.5	439.6	436.3	438.5	438.5	437.4	440.7	444.1	443.0	440.7
64°	446.3	426.4	417.6	416.5	415.4	416.5	415.4	418.7	419.8	419.8	422.0
65°	433.0	414.3	404.4	402.2	404.4	403.3	406.6	407.7	408.8	409.9	408.8
66°	418.7	401.1	393.4	389.0	390.1	390.1	393.4	394.5	396.7	395.6	398.9
67°	406.6	387.9	380.1	377.9	377.9	377.9	379.0	382.3	383.5	385.7	385.7
68°	393.4	376.8	371.3	369.1	369.1	368.0	369.1	372.4	373.5	375.7	376.8
69°	382.3	366.9	361.4	358.1	360.3	358.1	359.2	364.7	363.6	365.8	372.4
70°	372.4	357.0	352.6	352.6	350.4	351.5	351.5	353.7	354.8	359.2	358.1
72.5°	353.7	340.5	333.9	335.0	335.0	335.0	336.1	338.3	339.4	342.7	344.9



REPORT NUMBER: P212611
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REPORT N
CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°	
75°	327.3	316.2	312.9	312.9	312.9	315.1	315.1	316.2	321.7	324.0	324.0	0°
77.5°	308.5	297.5	294.2	294.2	296.4	297.5	299.7	301.9	304.1	308.5	309.6	2.5°
80°	283.2	274.4	273.3	274.4	276.6	278.8	281.0	286.5	288.7	289.8	296.4	5°
82.5°	261.1	252.3	252.3	254.5	257.8	260.0	264.4	266.7	268.9	272.2	274.4	7.5°
85°	235.8	229.2	231.4	233.6	239.1	240.2	242.4	246.8	250.1	251.2	254.5	10°
87.5°	213.8	210.5	211.6	214.9	218.2	223.7	225.9	228.1	232.5	234.7	234.7	12.5°
90°	196.1	192.8	196.1	200.5	203.8	206.1	209.4	211.6	214.9	216.0	217.1	15°
92.5°	181.8	179.6	182.9	187.3	190.6	191.7	193.9	199.4	200.5	202.7	202.7	17.5°
95°	168.6	167.5	170.8	174.1	177.4	180.7	182.9	186.2	189.5	190.6	190.6	20°
97.5°	149.9	148.8	152.1	158.7	159.8	160.9	163.1	165.3	169.7	170.8	169.7	22.5°
100°	139.9	138.8	139.9	144.3	145.4	149.9	151.0	154.3	155.4	157.6	156.5	25°
102.5°	121.2	122.3	124.5	124.5	128.9	128.9	132.2	134.4	135.5	138.8	143.2	27.5°
105°	108.0	108.0	109.1	109.1	111.3	112.4	112.4	115.7	117.9	117.9	119.0	30°
107.5°	94.8	94.8	95.9	97.0	98.1	98.1	99.2	101.4	101.4	103.6	103.6	32.5°
110°	81.5	83.7	82.6	82.6	82.6	84.8	85.9	85.9	87.0	88.1	88.1	35°
112.5°	69.4	69.4	69.4	70.5	71.6	71.6	72.7	72.7	73.8	74.9	74.9	37.5°
115°	56.2	56.2	57.3	56.2	55.1	56.2	56.2	57.3	58.4	57.3	63.9	40°
117.5°	49.6	48.5	47.4	48.5	47.4	47.4	47.4	48.5	49.6	49.6	51.8	42.5°
120°	36.4	36.4	36.4	36.4	38.6	36.4	36.4	35.3	37.5	36.4	37.5	45°
122.5°	30.9	29.8	29.8	29.8	29.8	29.8	29.8	30.9	29.8	30.9	29.8	46°
125°	26.4	26.4	28.6	26.4	25.3	26.4	26.4	26.4	26.4	27.5	32.0	47°
127.5°	20.9	22.0	20.9	20.9	20.9	22.0	20.9	20.9	22.0	23.1	22.0	48°
130°	17.6	15.4	16.5	16.5	16.5	16.5	16.5	16.5	17.6	19.8	18.7	49°
132.5°	8.8	8.8	8.8	9.9	11.0	11.0	9.9	11.0	11.0	12.1	11.0	50°
135°	6.6	7.7	5.5	5.5	7.7	6.6	8.8	7.7	7.7	7.7	6.6	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°	2.2	2.2	1.1	1.1	1.1	2.2	1.1	2.2	1.1	2.2	2.2	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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REPORT NUMBER: P

CATALOG NUMBER:

DISTRIBUTION (continued):

165°	170°	175°	180°
393.4	393.4	393.4	393.4
395.6	393.4	394.5	394.5
395.6	395.6	395.6	393.4
381.2	382.3	381.2	381.2
370.2	368.0	366.9	365.8
376.8	375.7	374.6	374.6
384.6	382.3	381.2	381.2
393.4	391.2	387.9	392.3
401.1	397.8	394.5	394.5
403.3	400.0	396.7	395.6
408.8	403.3	400.0	400.0
423.1	417.6	415.4	414.3
433.0	428.6	423.1	422.0
454.0	449.6	447.4	445.2
474.9	470.5	468.3	466.1
502.5	495.8	492.5	491.4
528.9	523.4	520.1	523.4
559.8	554.2	552.0	549.8
592.8	586.2	579.6	579.6
601.6	596.1	592.8	591.7
610.4	604.9	598.3	596.1
620.4	612.6	607.1	607.1
622.6	617.0	611.5	609.3
627.0	622.6	615.9	614.8
629.2	622.6	615.9	614.8
625.9	620.4	614.8	613.7
621.5	614.8	608.2	612.6
615.9	610.4	604.9	603.8
603.8	598.3	592.8	592.8
589.5	585.1	579.6	577.4
578.5	569.7	562.0	563.1
550.9	546.5	541.0	539.9
528.9	527.8	524.5	523.4
510.2	506.9	504.7	503.6
482.6	482.6	478.2	477.1
461.7	459.5	457.3	457.3
443.0	440.7	439.6	440.7
422.0	423.1	419.8	422.0
411.0	412.1	411.0	408.8
398.9	400.0	397.8	398.9
389.0	389.0	387.9	386.8
380.1	380.1	377.9	377.9
369.1	371.3	370.2	369.1
362.5	362.5	363.6	360.3
346.0	348.2	348.2	348.2

CANDELA DISTRIBUTION:

	165°
75°	326.2
77.5°	311.8
80°	294.2
82.5°	275.5
85°	255.6
87.5°	234.7
90°	219.3
92.5°	202.7
95°	192.8
97.5°	171.9
100°	158.7
102.5°	138.8
105°	119.0
107.5°	103.6
110°	88.1
112.5°	76.0
115°	59.5
117.5°	50.7
120°	38.6
122.5°	32.0
125°	28.6
127.5°	22.0
130°	17.6
132.5°	11.0
135°	8.8
137.5°	0.0
140°	2.2
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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TION (continued):

[illegible]

(END OF REPORT)