

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: P212584

Luminaire Tested: **MPB-AF-D-U-ASYM-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P212584
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25987)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: MPB-AF-D-U-ASYM-7050
Description: BRECKENRIDGE LED POST-TOP LUMINAIRE
(1) 70 CRI, 5000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND ASYMMETRIC OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4458 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.62')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U4 - G3

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



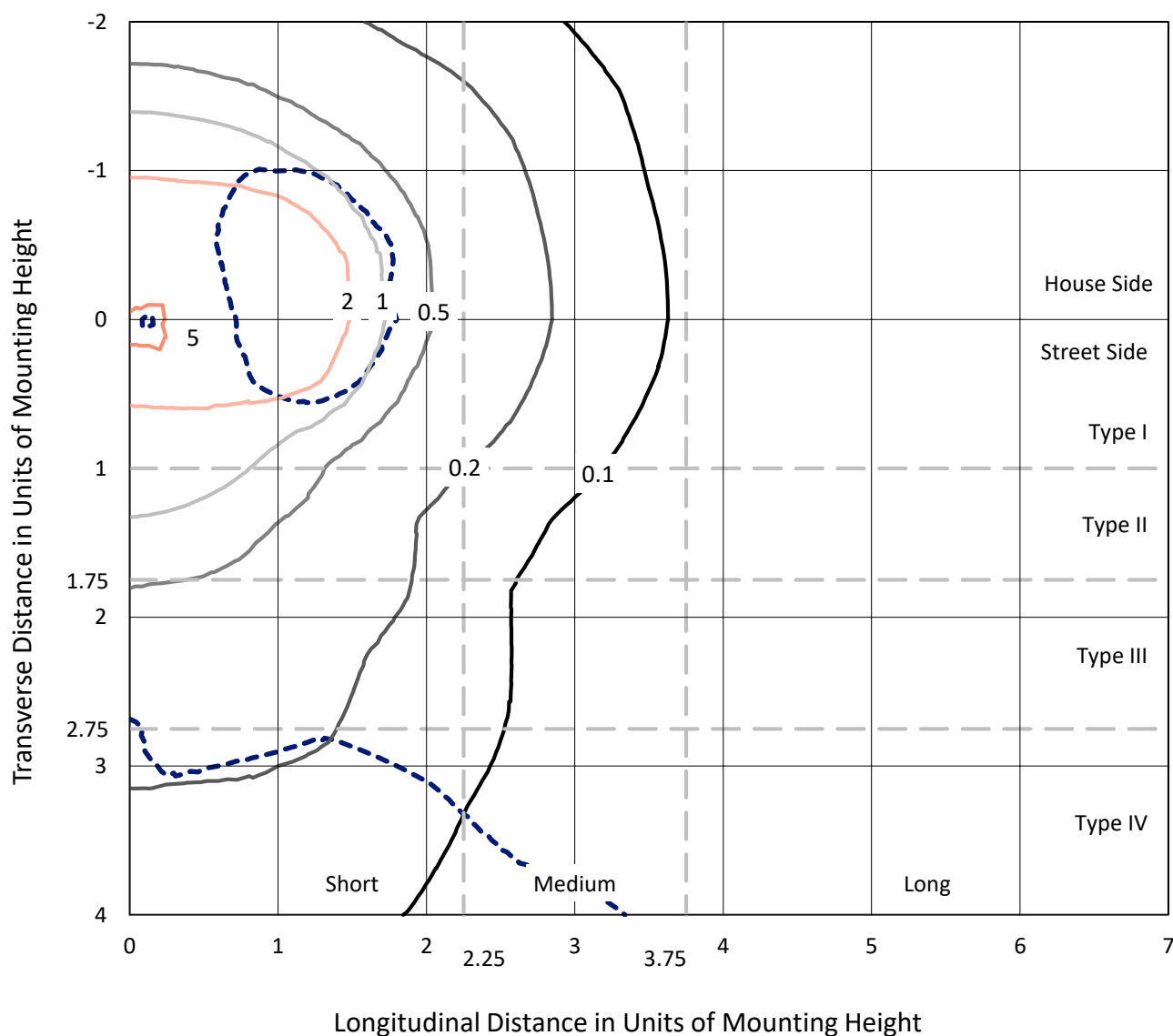
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

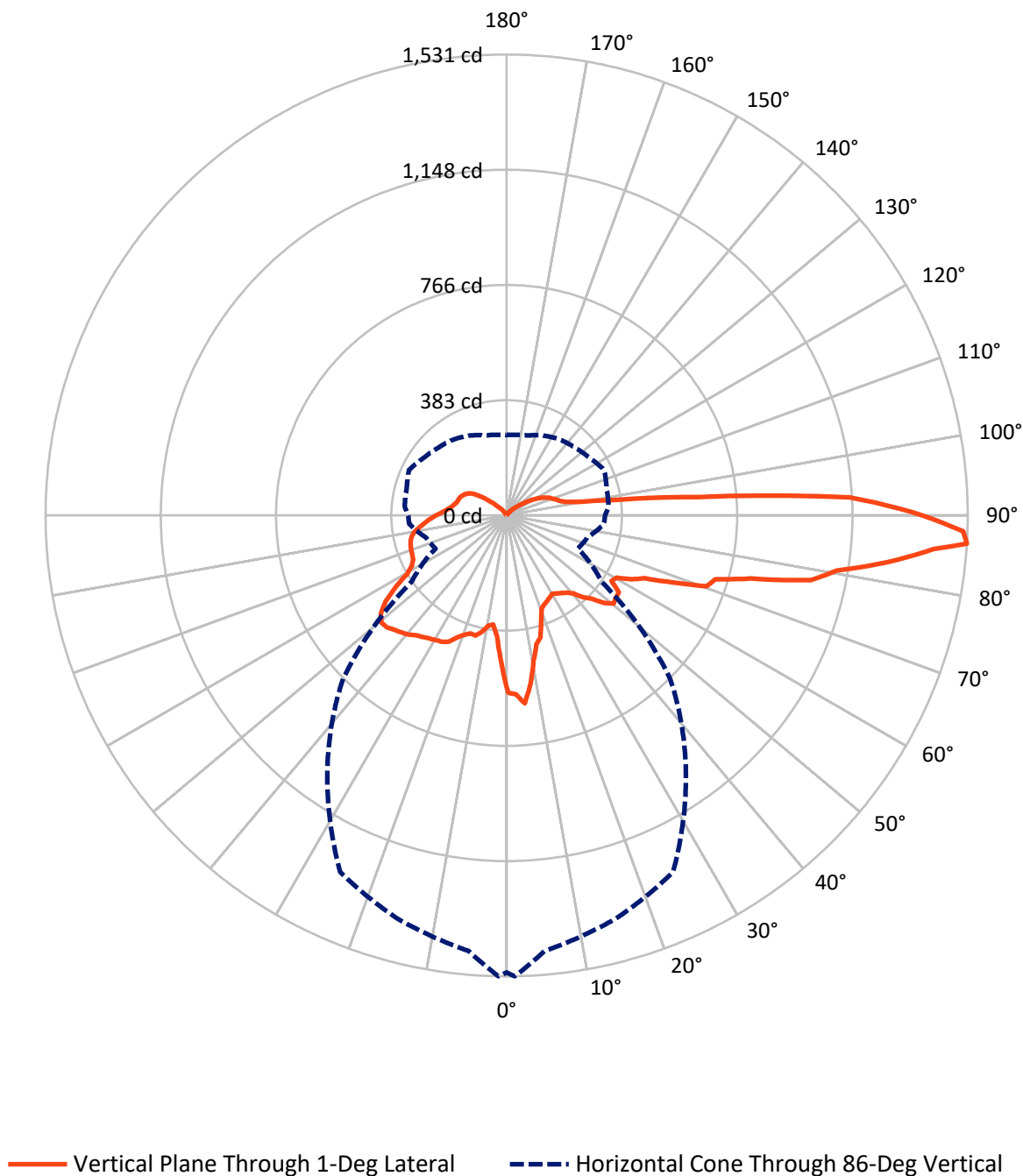


Based on 10 foot mounting height. Maximum calculated value = 7.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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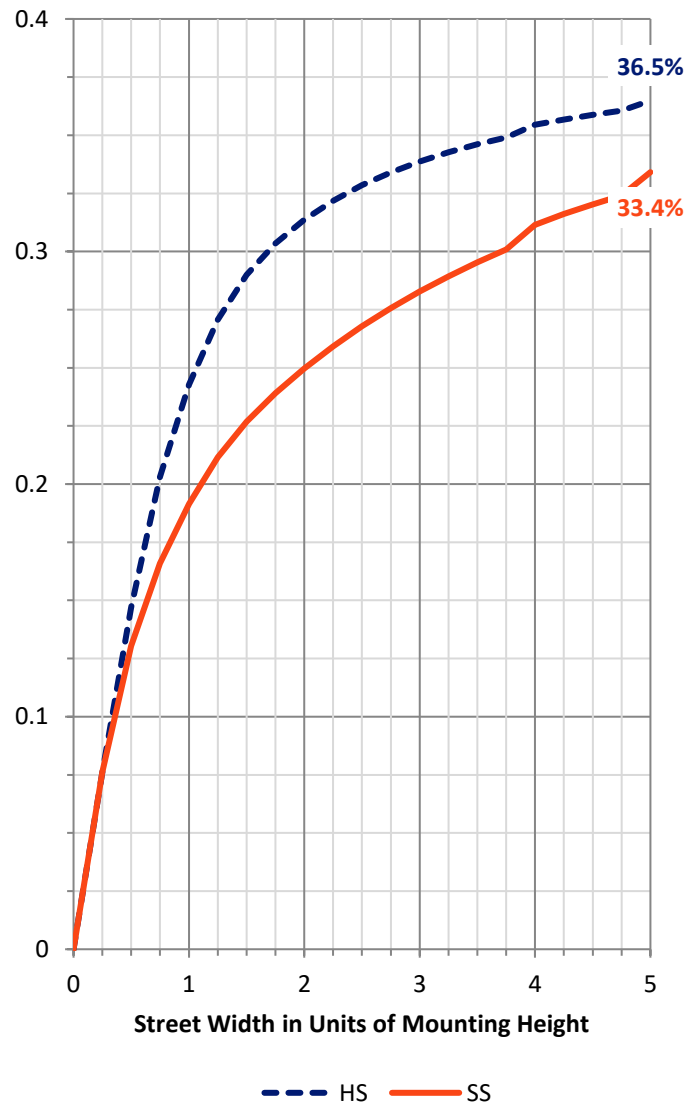
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1723.8	422.5	2146.3
	% Fixture	38.7	9.5	48.1
Street Side	Lumens	1813.1	498.6	2311.7
	% Fixture	40.7	11.2	51.9
Total	Lumens	3536.9	921.1	4458.0
	% Fixture	79.3	20.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.3	1.3
10°-20°	137.2	3.1
20°-30°	212.9	4.8
30°-40°	340.9	7.6
40°-50°	563.1	12.6
50°-60°	608.2	13.6
60°-70°	465.1	10.4
70°-80°	549.1	12.3
80°-90°	604.2	13.6
90°-100°	366.8	8.2
100°-110°	186.7	4.2
110°-120°	181.7	4.1
120°-130°	133.4	3.0
130°-140°	42.3	0.9
140°-150°	9.3	0.2
150°-160°	0.8	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	3536.9	79.3
0°-180°	4458.0	100.0

Coefficient of Utilization



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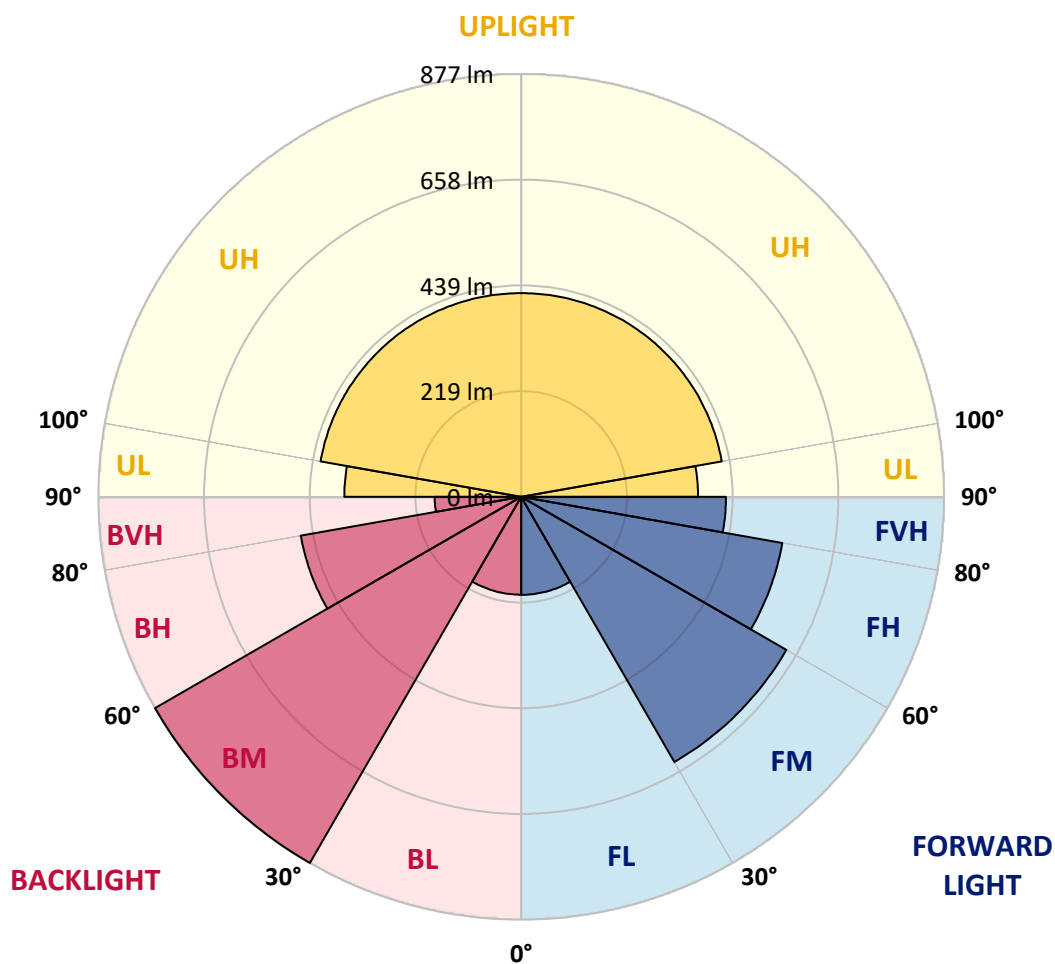
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	203.3	4.6			
FM	(30°-60°)	635.1	14.2			
FH	(60°-80°)	550.0	12.3			G0/660
FVH	(80°-90°)	424.7	9.5			G3/500
BL	(0°-30°)	203.1	4.6	B1/500		
BM	(30°-60°)	877.0	19.7	B1/1000		
BH	(60°-80°)	464.2	10.4	B1/500		G1/500
BVH	(80°-90°)	179.5	4.0			G2/225
UL	(90°-100°)	366.8	8.2		U3/500	
UH	(100°-180°)	422.5	9.5		U3/500	

BUG Rating: B1-U4-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8
2.5°	596.4	595.2	592.6	596.4	600.3	629.5	648.6	646.0	623.1	613.0	605.3
5°	635.9	627.0	620.6	630.8	630.8	684.2	710.9	671.5	663.8	682.9	662.6
7.5°	569.7	567.2	564.6	576.1	597.7	691.8	707.1	797.4	824.1	792.3	788.5
10°	487.1	490.9	487.1	548.1	633.3	698.2	613.0	635.9	677.8	691.8	624.4
12.5°	434.9	440.0	445.1	484.5	507.4	487.1	526.5	541.8	568.5	564.6	536.7
15°	414.6	419.7	417.1	399.3	424.8	461.6	493.4	524.0	554.5	525.2	525.2
17.5°	382.8	371.3	368.8	351.0	395.5	446.4	504.9	546.8	539.2	583.7	623.1
20°	334.5	330.6	330.6	339.6	377.7	440.0	545.6	639.7	703.3	653.7	593.9
22.5°	321.7	320.5	325.6	340.8	377.7	409.5	456.6	497.2	503.6	498.5	497.2
25°	314.1	314.1	319.2	337.0	351.0	375.2	432.4	468.0	470.5	496.0	496.0
27.5°	310.3	306.5	306.5	324.3	343.4	380.2	410.8	443.8	460.4	511.2	595.2
30°	302.7	301.4	302.7	320.5	349.7	373.9	413.3	441.3	465.5	516.3	540.5
32.5°	306.5	309.0	305.2	317.9	340.8	373.9	419.7	464.2	482.0	571.0	613.0
35°	316.7	316.7	311.6	317.9	335.7	368.8	424.8	492.2	525.2	641.0	703.3
37.5°	321.7	325.6	324.3	334.5	353.5	380.2	427.3	516.3	583.7	690.5	806.3
40°	340.8	340.8	342.1	359.9	373.9	391.7	428.6	529.0	660.0	750.3	936.0
42.5°	367.5	371.3	366.3	365.0	376.4	400.6	428.6	524.0	754.1	840.6	1087.3
45°	389.1	394.2	390.4	399.3	398.1	417.1	428.6	512.5	782.1	939.8	1220.9
47.5°	438.7	433.7	438.7	441.3	429.8	437.5	443.8	510.0	775.8	1056.8	1294.6
50°	459.1	460.4	456.6	448.9	446.4	438.7	445.1	492.2	754.1	1135.7	1341.7
52.5°	457.8	454.0	459.1	447.6	438.7	436.2	426.0	461.6	712.2	1097.5	1228.5
55°	456.6	451.5	442.6	427.3	412.0	409.5	404.4	428.6	614.2	919.5	1078.4
57.5°	410.8	410.8	405.7	405.7	393.0	380.2	380.2	372.6	513.8	745.2	927.1
60°	418.4	419.7	414.6	422.2	413.3	377.7	382.8	333.2	429.8	563.4	677.8
62.5°	471.8	466.7	455.3	455.3	443.8	385.3	358.6	321.7	387.9	480.7	565.9
65°	507.4	503.6	504.9	513.8	501.1	428.6	399.3	325.6	372.6	460.4	535.4
67.5°	590.1	592.6	596.4	620.6	576.1	485.8	445.1	334.5	366.3	456.6	527.8
70°	733.8	704.5	682.9	629.5	611.7	502.3	456.6	343.4	361.2	456.6	522.7
72.5°	716.0	724.9	713.4	733.8	728.7	586.3	469.3	357.4	357.4	448.9	521.4
75°	848.2	836.8	862.2	942.3	855.9	674.0	545.6	372.6	347.2	434.9	511.2
77.5°	1036.5	1032.6	1003.4	980.5	929.6	713.4	633.3	414.6	323.0	405.7	482.0
80°	1124.2	1111.5	1131.8	1086.1	1061.9	821.5	624.4	396.8	295.0	368.8	437.5
82.5°	1280.6	1274.3	1287.0	1409.1	1210.7	941.1	686.7	405.7	276.0	329.4	387.9
85°	1416.7	1423.1	1465.0	1419.2	1315.0	1027.6	726.2	423.5	265.8	292.5	342.1
86°	1518.4	1531.2	1452.3	1388.7	1307.3	1037.7	768.1	385.3	260.7	278.5	324.3
87.5°	1498.1	1517.2	1489.2	1462.5	1364.6	1070.8	784.7	343.4	255.6	258.2	298.9
90°	1387.5	1345.5	1391.3	1433.2	1256.5	966.5	705.8	354.8	232.7	231.5	263.2
92.5°	1145.8	1140.7	1112.8	1103.9	995.8	779.6	592.6	296.3	213.7	207.3	234.0
95°	679.1	638.4	616.8	726.2	660.0	600.3	436.2	276.0	192.0	185.7	206.0
97.5°	380.2	367.5	353.5	403.1	419.7	376.4	282.3	202.2	170.4	170.4	185.7
100°	256.9	246.7	242.9	244.2	264.5	244.2	203.5	165.3	153.9	160.2	171.7
102.5°	199.7	198.4	194.6	197.1	200.9	188.2	170.4	156.4	151.3	160.2	166.6
105°	181.9	181.9	178.0	176.8	180.6	169.1	160.2	151.3	153.9	166.6	170.4
107.5°	170.4	171.7	166.6	166.6	166.6	160.2	152.6	148.8	159.0	175.5	179.3



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CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	160.2	160.2	156.4	156.4	157.7	151.3	146.2	146.2	164.1	185.7	190.8
112.5°	150.1	151.3	147.5	147.5	147.5	142.4	139.9	145.0	170.4	198.4	206.0
115°	137.3	137.3	134.8	137.3	137.3	134.8	134.8	145.0	184.4	217.5	228.9
117.5°	122.1	122.1	120.8	124.6	125.9	127.2	131.0	146.2	199.7	239.1	256.9
120°	105.6	105.6	105.6	110.6	113.2	117.0	124.6	143.7	208.6	255.6	274.7
122.5°	87.7	87.7	87.7	91.6	95.4	103.0	113.2	133.5	199.7	246.7	268.3
125°	69.9	69.9	71.2	73.8	78.8	86.5	96.7	115.7	171.7	212.4	235.3
127.5°	56.0	56.0	56.0	58.5	62.3	69.9	78.8	95.4	134.8	169.1	190.8
130°	44.5	44.5	44.5	45.8	48.3	53.4	62.3	76.3	103.0	127.2	143.7
132.5°	35.6	34.3	35.6	35.6	38.2	42.0	47.1	56.0	72.5	90.3	103.0
135°	29.2	29.2	29.2	29.2	30.5	31.8	36.9	40.7	49.6	61.0	67.4
137.5°	22.9	22.9	22.9	22.9	24.2	24.2	26.7	30.5	34.3	42.0	48.3
140°	17.8	17.8	17.8	17.8	17.8	19.1	20.3	21.6	25.4	31.8	36.9
142.5°	14.0	14.0	14.0	14.0	14.0	14.0	15.3	16.5	19.1	22.9	26.7
145°	8.9	10.2	8.9	8.9	8.9	8.9	10.2	10.2	12.7	15.3	17.8
147.5°	5.1	6.4	5.1	5.1	5.1	5.1	5.1	6.4	6.4	8.9	10.2
150°	2.5	2.5	2.5	2.5	2.5	1.3	2.5	2.5	2.5	3.8	5.1
152.5°	0.0	0.0	0.0	1.3	1.3	1.3	1.3	1.3	1.3	2.5	2.5
155°	0.0	0.0	0.0	1.3	1.3	1.3	0.0	1.3	1.3	2.5	2.5
157.5°	0.0	0.0	0.0	1.3	1.3	1.3	1.3	1.3	1.3	2.5	2.5
160°	0.0	0.0	0.0	1.3	1.3	1.3	0.0	1.3	1.3	2.5	2.5
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8
2.5°	602.8	602.8	606.6	606.6	602.8	587.5	564.6	541.8	515.0	496.0	490.9
5°	648.6	628.2	606.6	571.0	540.5	534.1	488.3	446.4	422.2	404.4	401.9
7.5°	788.5	763.0	675.3	651.1	610.4	559.6	431.1	389.1	372.6	366.3	365.0
10°	592.6	559.6	507.4	488.3	480.7	452.7	410.8	385.3	376.4	373.9	371.3
12.5°	518.9	502.3	479.4	462.9	451.5	428.6	404.4	389.1	386.6	394.2	395.5
15°	517.6	524.0	512.5	473.1	441.3	422.2	408.2	405.7	407.0	413.3	412.0
17.5°	639.7	614.2	572.3	512.5	466.7	468.0	465.5	427.3	422.2	412.0	409.5
20°	571.0	545.6	540.5	504.9	492.2	451.5	460.4	443.8	434.9	423.5	419.7
22.5°	494.7	483.3	461.6	452.7	448.9	461.6	461.6	447.6	442.6	437.5	436.2
25°	489.6	490.9	516.3	515.0	478.2	484.5	475.6	460.4	460.4	462.9	460.4
27.5°	595.2	563.4	527.8	526.5	511.2	527.8	499.8	478.2	476.9	473.1	470.5
30°	544.3	544.3	553.2	550.7	539.2	530.3	515.0	494.7	487.1	478.2	475.6
32.5°	618.1	623.1	643.5	620.6	592.6	565.9	539.2	510.0	494.7	483.3	482.0
35°	682.9	693.1	750.3	703.3	666.4	609.2	568.5	525.2	502.3	492.2	489.6
37.5°	766.9	775.8	871.1	796.1	737.6	656.2	600.3	543.0	513.8	499.8	498.5
40°	878.8	880.0	983.0	915.6	847.0	708.4	619.3	557.0	529.0	513.8	512.5
42.5°	1027.6	1019.9	1147.1	1082.2	936.0	746.5	628.2	560.8	534.1	524.0	522.7
45°	1166.2	1156.0	1260.3	1233.6	975.4	770.7	639.7	573.5	543.0	534.1	531.6
47.5°	1259.0	1274.3	1349.3	1342.9	999.6	780.8	658.8	587.5	554.5	545.6	544.3
50°	1355.7	1373.5	1448.5	1336.6	1014.8	788.5	672.7	597.7	559.6	549.4	546.8
52.5°	1377.3	1382.4	1433.2	1266.6	981.8	765.6	661.3	585.0	544.3	532.9	529.0
55°	1232.3	1194.2	1360.7	1096.2	895.3	698.2	619.3	548.1	507.4	498.5	493.4
57.5°	1021.2	962.7	1095.0	906.7	764.3	621.9	550.7	493.4	455.3	445.1	440.0
60°	756.7	705.8	797.4	694.4	620.6	511.2	454.0	420.9	390.4	384.1	382.8
62.5°	623.1	599.0	644.8	592.6	534.1	456.6	413.3	385.3	358.6	356.1	356.1
65°	576.1	571.0	597.7	560.8	508.7	440.0	400.6	373.9	348.5	344.6	343.4
67.5°	555.7	557.0	569.7	551.9	506.1	437.5	398.1	370.1	344.6	340.8	339.6
70°	549.4	549.4	549.4	551.9	510.0	437.5	398.1	371.3	343.4	338.3	337.0
72.5°	545.6	545.6	536.7	546.8	506.1	434.9	398.1	370.1	342.1	335.7	334.5
75°	530.3	531.6	520.1	536.7	493.4	429.8	396.8	367.5	338.3	331.9	330.6
77.5°	497.2	499.8	492.2	513.8	471.8	419.7	390.4	362.4	333.2	325.6	324.3
80°	446.4	457.8	454.0	474.4	437.5	399.3	373.9	348.5	320.5	314.1	312.8
82.5°	391.7	405.7	408.2	423.5	394.2	367.5	345.9	325.6	300.1	295.0	293.8
85°	344.6	357.4	362.4	375.2	351.0	333.2	317.9	301.4	281.1	276.0	274.7
86°	326.8	339.6	343.4	357.4	334.5	319.2	307.8	292.5	274.7	268.3	267.1
87.5°	301.4	312.8	319.2	330.6	310.3	298.9	291.2	279.8	263.2	258.2	256.9
90°	265.8	277.2	281.1	287.4	270.9	264.5	262.0	254.3	242.9	237.8	237.8
92.5°	235.3	245.4	249.3	253.1	239.1	234.0	235.3	231.5	223.8	220.0	218.7
95°	207.3	216.2	218.7	222.6	211.1	209.8	216.2	214.9	208.6	204.7	203.5
97.5°	186.9	193.3	195.8	197.1	190.8	193.3	199.7	200.9	197.1	193.3	192.0
100°	173.0	176.8	180.6	183.1	176.8	180.6	188.2	189.5	186.9	184.4	183.1
102.5°	167.9	170.4	176.8	179.3	171.7	173.0	179.3	181.9	179.3	176.8	176.8
105°	171.7	173.0	183.1	186.9	175.5	171.7	174.2	176.8	173.0	171.7	171.7
107.5°	180.6	181.9	195.8	199.7	186.9	176.8	174.2	174.2	171.7	169.1	169.1



REPORT NUMBER: P212584

CATALOG NUMBER: MPB-AF-D-U-ASYM-7050

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	192.0	195.8	211.1	218.7	203.5	183.1	174.2	173.0	170.4	166.6	167.9
112.5°	208.6	211.1	228.9	239.1	221.3	189.5	174.2	170.4	166.6	164.1	165.3
115°	232.7	231.5	253.1	262.0	237.8	195.8	175.5	166.6	162.8	160.2	160.2
117.5°	260.7	258.2	279.8	279.8	250.5	200.9	175.5	162.8	157.7	155.2	155.2
120°	279.8	274.7	298.9	288.7	251.8	200.9	174.2	157.7	151.3	148.8	147.5
122.5°	276.0	270.9	298.9	276.0	232.7	185.7	162.8	148.8	141.2	138.6	137.3
125°	241.6	236.5	254.3	232.7	195.8	155.2	137.3	125.9	122.1	119.5	119.5
127.5°	195.8	192.0	195.8	181.9	153.9	124.6	110.6	103.0	100.5	99.2	99.2
130°	143.7	145.0	147.5	137.3	115.7	96.7	85.2	80.1	78.8	77.6	77.6
132.5°	104.3	104.3	106.8	100.5	83.9	72.5	66.1	62.3	62.3	61.0	61.0
135°	69.9	71.2	73.8	69.9	59.8	52.1	48.3	47.1	47.1	45.8	45.8
137.5°	49.6	52.1	53.4	49.6	44.5	39.4	35.6	34.3	35.6	34.3	34.3
140°	38.2	39.4	40.7	38.2	33.1	29.2	28.0	26.7	26.7	26.7	26.7
142.5°	29.2	29.2	30.5	28.0	24.2	21.6	20.3	20.3	20.3	20.3	20.3
145°	19.1	20.3	20.3	19.1	16.5	15.3	14.0	12.7	12.7	12.7	12.7
147.5°	10.2	11.4	12.7	11.4	10.2	8.9	7.6	7.6	6.4	6.4	6.4
150°	5.1	5.1	6.4	6.4	5.1	3.8	2.5	2.5	2.5	1.3	1.3
152.5°	2.5	2.5	3.8	3.8	2.5	1.3	0.0	0.0	0.0	0.0	0.0
155°	2.5	2.5	3.8	3.8	2.5	1.3	0.0	0.0	0.0	0.0	0.0
157.5°	2.5	2.5	2.5	3.8	2.5	1.3	0.0	0.0	0.0	0.0	0.0
160°	2.5	2.5	2.5	3.8	2.5	1.3	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)