

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: P212580

Luminaire Tested: **MPB-AF-D-U-ASYM-7060-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P212580
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-7060-800
Description: BRECKENRIDGE LED POST-TOP LUMINAIRE
(1) 70 CRI, 5700K, 800mA LIGHTSQUARE WITH 16 LEDS AND ASYMMETRIC OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3602 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.62')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U3 - G3

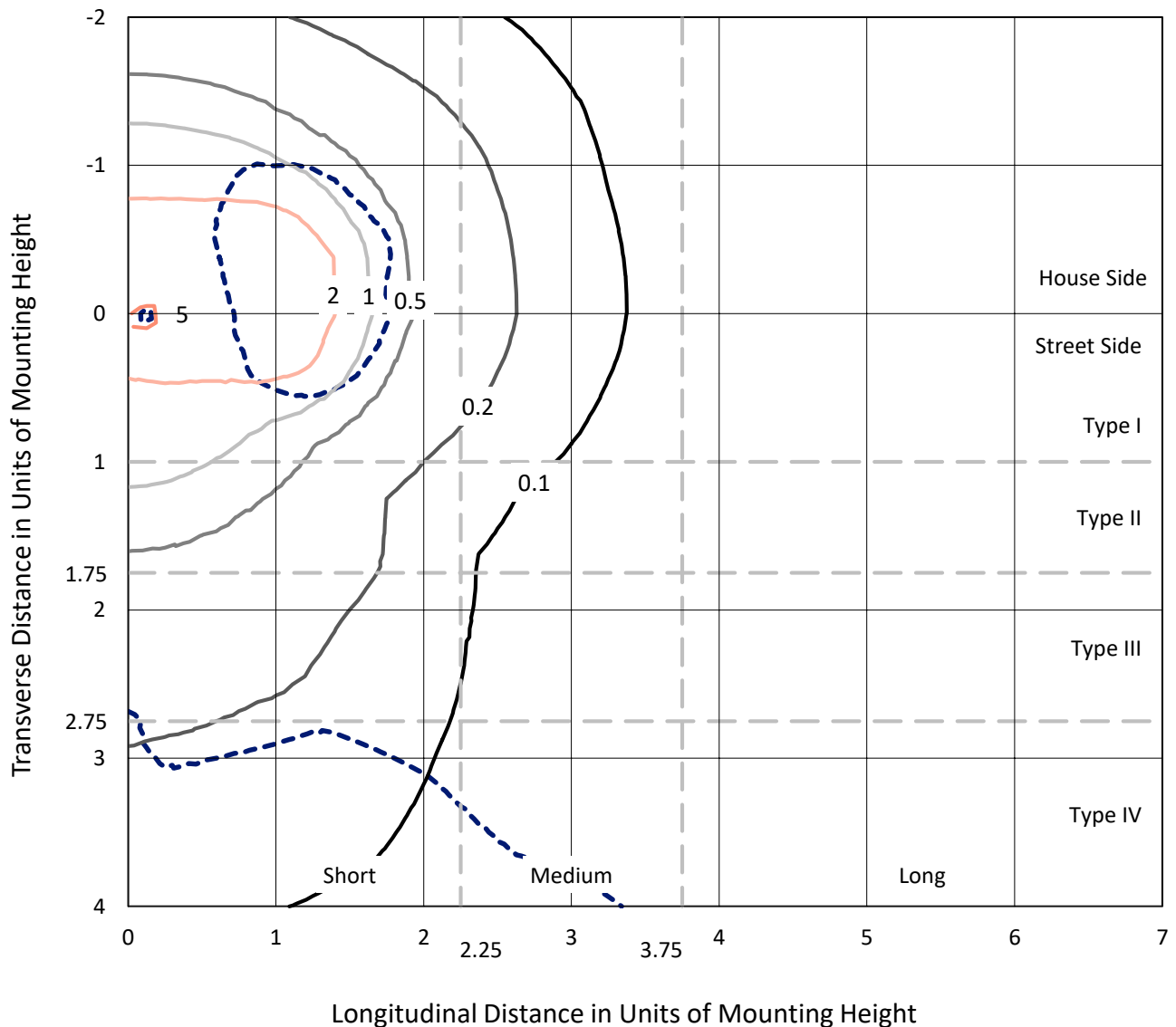
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P212580
 CATALOG NUMBER: MPB-AF-D-U-ASYM-7060-800

Iso-Footcandle Lines of Horizontal Illumination

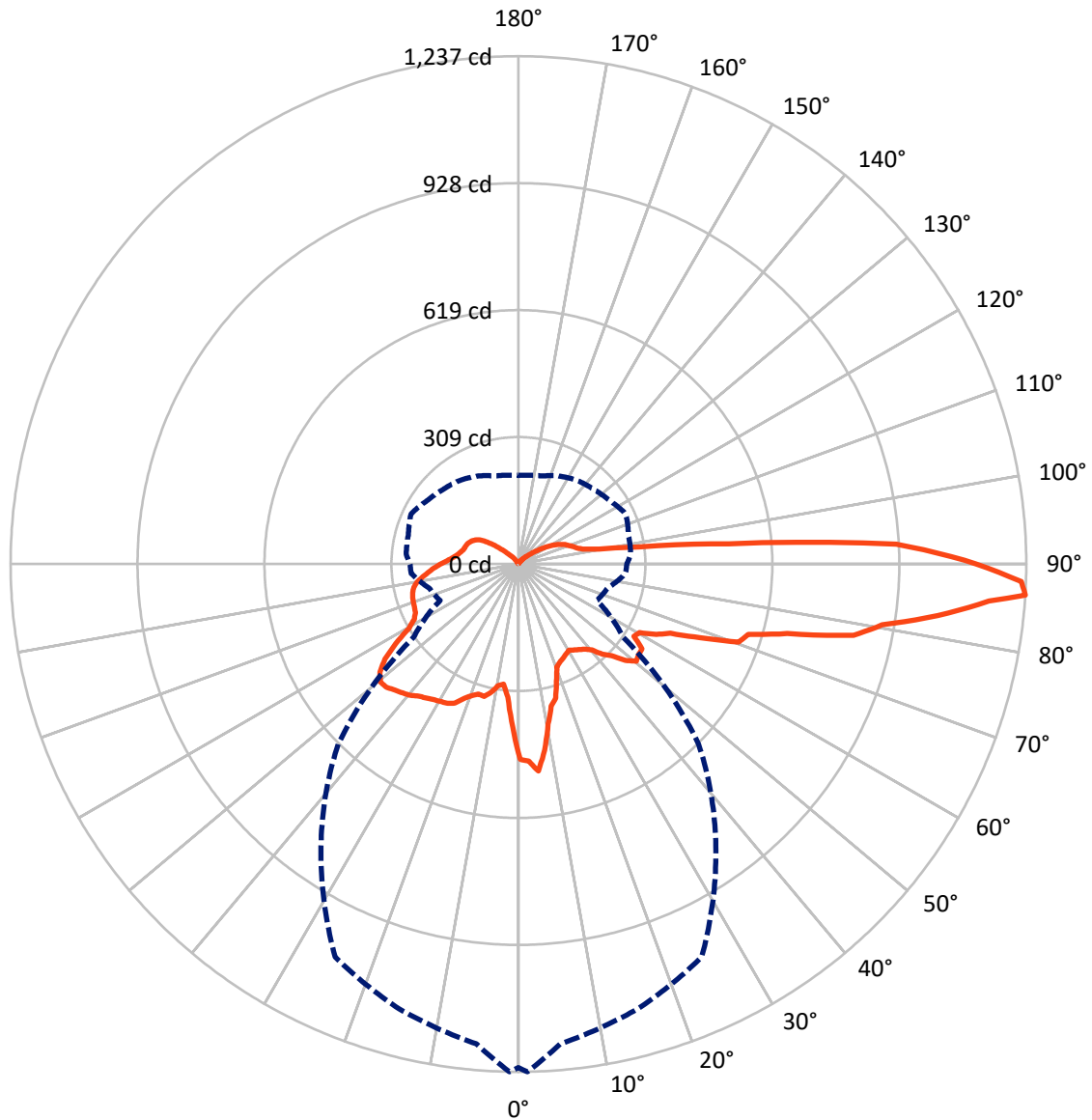
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P212580
CATALOG NUMBER: MPB-AF-D-U-ASYM-7060-800

Luminous Intensity Polar Plot



— Vertical Plane Through 1-Deg Lateral - - - Horizontal Cone Through 86-Deg Vertical

REPORT NUMBER: P212580

CATALOG NUMBER: MPB-AF-D-U-ASYM-7060-800

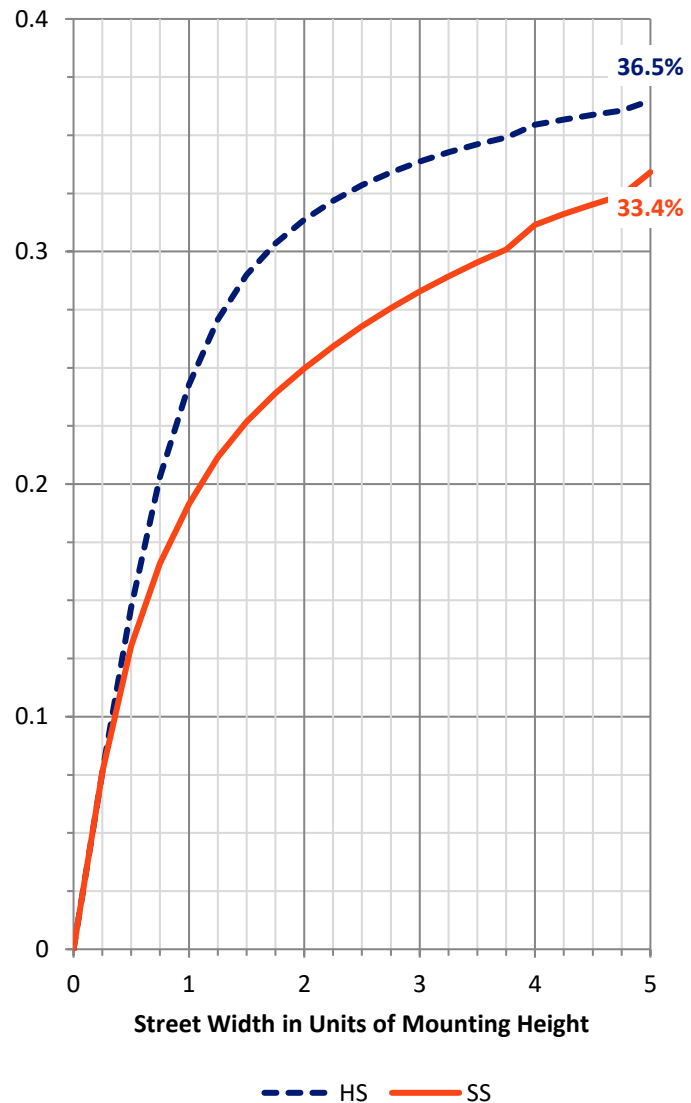
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1392.8	341.4	1734.2
	% Fixture	38.7	9.5	48.1
Street Side	Lumens	1465.0	402.9	1867.8
	% Fixture	40.7	11.2	51.9
Total	Lumens	2857.8	744.2	3602.0
	% Fixture	79.3	20.7	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.5	1.3
10°-20°	110.8	3.1
20°-30°	172.1	4.8
30°-40°	275.4	7.6
40°-50°	455.0	12.6
50°-60°	491.4	13.6
60°-70°	375.8	10.4
70°-80°	443.6	12.3
80°-90°	488.1	13.6
90°-100°	296.4	8.2
100°-110°	150.8	4.2
110°-120°	146.8	4.1
120°-130°	107.8	3.0
130°-140°	34.2	0.9
140°-150°	7.6	0.2
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2857.8	79.3
0°-180°	3602.0	100.0



REPORT NUMBER: P212580

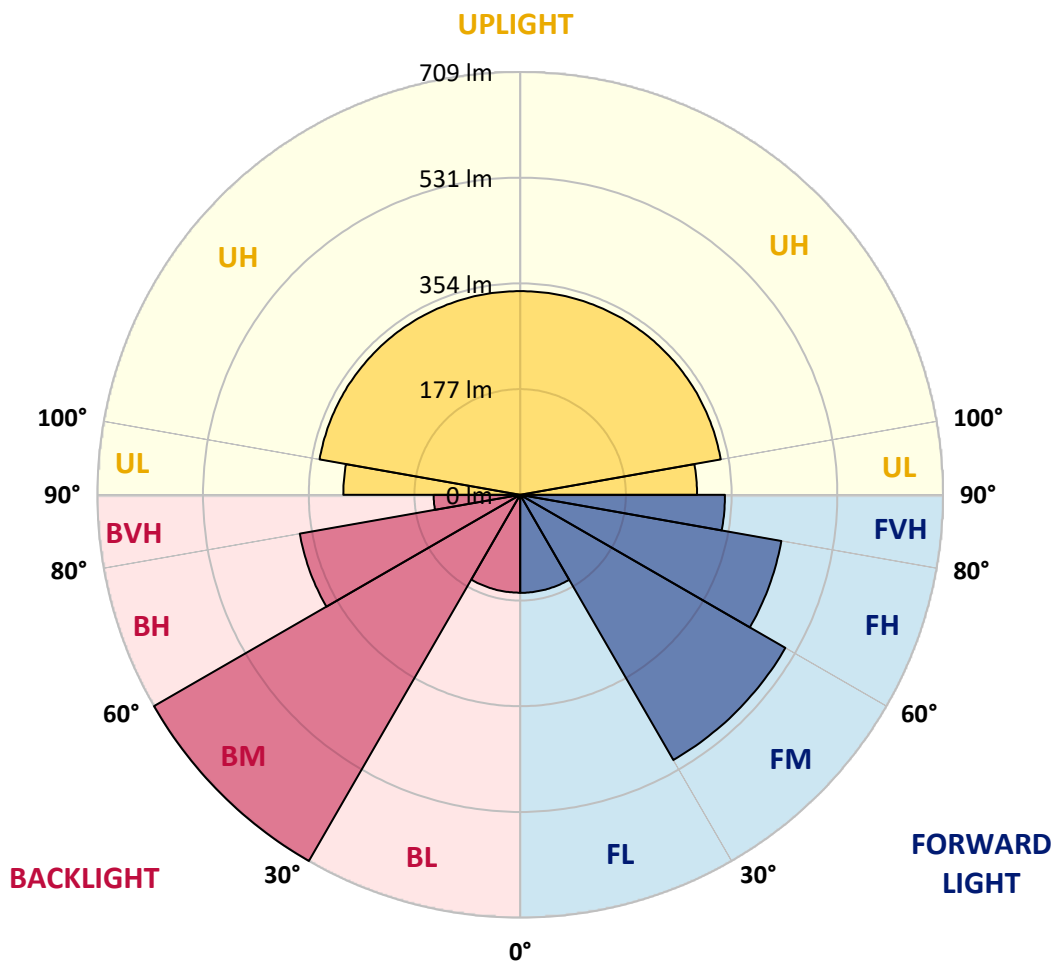
CATALOG NUMBER: MPB-AF-D-U-ASYM-7060-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	164.3	4.6			
FM	(30°-60°)	513.2	14.2			
FH	(60°-80°)	444.4	12.3			G0/660
FVH	(80°-90°)	343.1	9.5			G3/500
BL	(0°-30°)	164.1	4.6	B1/500		
BM	(30°-60°)	708.6	19.7	B1/1000		
BH	(60°-80°)	375.0	10.4	B1/500		G1/500
BVH	(80°-90°)	145.0	4.0			G2/225
UL	(90°-100°)	296.4	8.2		U3/500	
UH	(100°-180°)	341.4	9.5		U3/500	

BUG Rating: B1-U3-G3

Type IV Short





REPORT NUMBER: P212580

CATALOG NUMBER: MPB-AF-D-U-ASYM-7060-800

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	475.7	475.7	475.7	475.7	475.7	475.7	475.7	475.7	475.7	475.7	475.7
2.5°	481.9	480.9	478.8	481.9	485.0	508.6	524.0	522.0	503.5	495.3	489.1
5°	513.8	506.6	501.4	509.7	509.7	552.8	574.4	542.5	536.4	551.8	535.3
7.5°	460.3	458.3	456.2	465.5	482.9	559.0	571.3	644.3	665.8	640.2	637.1
10°	393.5	396.6	393.5	442.9	511.7	564.1	495.3	513.8	547.7	559.0	504.5
12.5°	351.4	355.5	359.6	391.5	410.0	393.5	425.4	437.7	459.3	456.2	433.6
15°	335.0	339.1	337.0	322.6	343.2	373.0	398.7	423.3	448.0	424.4	424.4
17.5°	309.3	300.0	298.0	283.6	319.6	360.7	407.9	441.8	435.7	471.6	503.5
20°	270.2	267.2	267.2	274.4	305.2	355.5	440.8	516.9	568.2	528.2	479.9
22.5°	260.0	258.9	263.0	275.4	305.2	330.9	368.9	401.8	406.9	402.8	401.8
25°	253.8	253.8	257.9	272.3	283.6	303.1	349.4	378.1	380.2	400.7	400.7
27.5°	250.7	247.6	247.6	262.0	277.4	307.2	331.9	358.6	372.0	413.1	480.9
30°	244.6	243.5	244.6	258.9	282.6	302.1	333.9	356.6	376.1	417.2	436.7
32.5°	247.6	249.7	246.6	256.9	275.4	302.1	339.1	375.1	389.4	461.4	495.3
35°	255.9	255.9	251.7	256.9	271.3	298.0	343.2	397.7	424.4	517.9	568.2
37.5°	260.0	263.0	262.0	270.2	285.7	307.2	345.3	417.2	471.6	558.0	651.5
40°	275.4	275.4	276.4	290.8	302.1	316.5	346.3	427.5	533.3	606.2	756.3
42.5°	297.0	300.0	295.9	294.9	304.2	323.7	346.3	423.3	609.3	679.2	878.5
45°	314.4	318.5	315.5	322.6	321.6	337.0	346.3	414.1	631.9	759.4	986.4
47.5°	354.5	350.4	354.5	356.6	347.3	353.5	358.6	412.0	626.8	853.9	1046.0
50°	370.9	372.0	368.9	362.7	360.7	354.5	359.6	397.7	609.3	917.6	1084.1
52.5°	369.9	366.8	370.9	361.7	354.5	352.4	344.2	373.0	575.4	886.8	992.6
55°	368.9	364.8	357.6	345.3	332.9	330.9	326.8	346.3	496.3	742.9	871.4
57.5°	331.9	331.9	327.8	327.8	317.5	307.2	307.2	301.1	415.1	602.1	749.1
60°	338.1	339.1	335.0	341.1	333.9	305.2	309.3	269.2	347.3	455.2	547.7
62.5°	381.2	377.1	367.9	367.9	358.6	311.3	289.8	260.0	313.4	388.4	457.3
65°	410.0	406.9	407.9	415.1	404.8	346.3	322.6	263.0	301.1	372.0	432.6
67.5°	476.8	478.8	481.9	501.4	465.5	392.5	359.6	270.2	295.9	368.9	426.4
70°	592.9	569.3	551.8	508.6	494.2	405.9	368.9	277.4	291.8	368.9	422.3
72.5°	578.5	585.7	576.4	592.9	588.8	473.7	379.2	288.7	288.7	362.7	421.3
75°	685.4	676.1	696.7	761.4	691.5	544.6	440.8	301.1	280.5	351.4	413.1
77.5°	837.4	834.4	810.7	792.2	751.1	576.4	511.7	335.0	261.0	327.8	389.4
80°	908.3	898.1	914.5	877.5	858.0	663.8	504.5	320.6	238.4	298.0	353.5
82.5°	1034.7	1029.6	1039.9	1138.5	978.2	760.4	554.9	327.8	223.0	266.1	313.4
85°	1144.7	1149.8	1183.7	1146.7	1062.5	830.3	586.7	342.2	214.8	236.3	276.4
86°	1226.9	1237.2	1173.4	1122.1	1056.3	838.5	620.6	311.3	210.6	225.0	262.0
87.5°	1210.4	1225.9	1203.2	1181.7	1102.5	865.2	634.0	277.4	206.5	208.6	241.5
90°	1121.0	1087.1	1124.1	1158.0	1015.2	780.9	570.3	286.7	188.0	187.0	212.7
92.5°	925.8	921.7	899.1	891.9	804.6	629.9	478.8	239.4	172.6	167.5	189.1
95°	548.7	515.8	498.4	586.7	533.3	485.0	352.4	223.0	155.2	150.0	166.5
97.5°	307.2	297.0	285.7	325.7	339.1	304.2	228.1	163.4	137.7	137.7	150.0
100°	207.6	199.3	196.3	197.3	213.7	197.3	164.4	133.6	124.3	129.5	138.7
102.5°	161.3	160.3	157.2	159.3	162.4	152.1	137.7	126.4	122.3	129.5	134.6
105°	146.9	146.9	143.9	142.8	145.9	136.7	129.5	122.3	124.3	134.6	137.7
107.5°	137.7	138.7	134.6	134.6	134.6	129.5	123.3	120.2	128.4	141.8	144.9



REPORT NUMBER: P212580

CATALOG NUMBER: MPB-AF-D-U-ASYM-7060-800

CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	129.5	129.5	126.4	126.4	127.4	122.3	118.2	118.2	132.6	150.0	154.1
112.5°	121.2	122.3	119.2	119.2	119.2	115.1	113.0	117.1	137.7	160.3	166.5
115°	111.0	111.0	108.9	111.0	111.0	108.9	108.9	117.1	149.0	175.7	185.0
117.5°	98.6	98.6	97.6	100.7	101.7	102.8	105.8	118.2	161.3	193.2	207.6
120°	85.3	85.3	85.3	89.4	91.5	94.5	100.7	116.1	168.5	206.5	221.9
122.5°	70.9	70.9	70.9	74.0	77.1	83.2	91.5	107.9	161.3	199.3	216.8
125°	56.5	56.5	57.5	59.6	63.7	69.9	78.1	93.5	138.7	171.6	190.1
127.5°	45.2	45.2	45.2	47.3	50.3	56.5	63.7	77.1	108.9	136.7	154.1
130°	36.0	36.0	36.0	37.0	39.0	43.2	50.3	61.7	83.2	102.8	116.1
132.5°	28.8	27.7	28.8	28.8	30.8	33.9	38.0	45.2	58.6	73.0	83.2
135°	23.6	23.6	23.6	23.6	24.7	25.7	29.8	32.9	40.1	49.3	54.5
137.5°	18.5	18.5	18.5	18.5	19.5	19.5	21.6	24.7	27.7	33.9	39.0
140°	14.4	14.4	14.4	14.4	14.4	15.4	16.4	17.5	20.6	25.7	29.8
142.5°	11.3	11.3	11.3	11.3	11.3	11.3	12.3	13.4	15.4	18.5	21.6
145°	7.2	8.2	7.2	7.2	7.2	7.2	8.2	8.2	10.3	12.3	14.4
147.5°	4.1	5.1	4.1	4.1	4.1	4.1	4.1	5.1	5.1	7.2	8.2
150°	2.1	2.1	2.1	2.1	2.1	1.0	2.1	2.1	2.1	3.1	4.1
152.5°	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1	2.1
155°	0.0	0.0	0.0	1.0	1.0	1.0	0.0	1.0	1.0	2.1	2.1
157.5°	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1	2.1
160°	0.0	0.0	0.0	1.0	1.0	1.0	0.0	1.0	1.0	2.1	2.1
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



REPORT NUMBER: P212580

CATALOG NUMBER: MPB-AF-D-U-ASYM-7060-800

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	475.7	475.7	475.7	475.7	475.7	475.7	475.7	475.7	475.7	475.7	475.7
2.5°	487.1	487.1	490.1	490.1	487.1	474.7	456.2	437.7	416.2	400.7	396.6
5°	524.0	507.6	490.1	461.4	436.7	431.6	394.6	360.7	341.1	326.8	324.7
7.5°	637.1	616.5	545.6	526.1	493.2	452.1	348.3	314.4	301.1	295.9	294.9
10°	478.8	452.1	410.0	394.6	388.4	365.8	331.9	311.3	304.2	302.1	300.0
12.5°	419.2	405.9	387.4	374.0	364.8	346.3	326.8	314.4	312.4	318.5	319.6
15°	418.2	423.3	414.1	382.2	356.6	341.1	329.8	327.8	328.8	333.9	332.9
17.5°	516.9	496.3	462.4	414.1	377.1	378.1	376.1	345.3	341.1	332.9	330.9
20°	461.4	440.8	436.7	407.9	397.7	364.8	372.0	358.6	351.4	342.2	339.1
22.5°	399.7	390.5	373.0	365.8	362.7	373.0	373.0	361.7	357.6	353.5	352.4
25°	395.6	396.6	417.2	416.2	386.4	391.5	384.3	372.0	372.0	374.0	372.0
27.5°	480.9	455.2	426.4	425.4	413.1	426.4	403.8	386.4	385.3	382.2	380.2
30°	439.8	439.8	447.0	444.9	435.7	428.5	416.2	399.7	393.5	386.4	384.3
32.5°	499.4	503.5	519.9	501.4	478.8	457.3	435.7	412.0	399.7	390.5	389.4
35°	551.8	560.0	606.2	568.2	538.4	492.2	459.3	424.4	405.9	397.7	395.6
37.5°	619.6	626.8	703.9	643.2	596.0	530.2	485.0	438.8	415.1	403.8	402.8
40°	710.0	711.1	794.3	739.8	684.3	572.3	500.4	450.1	427.5	415.1	414.1
42.5°	830.3	824.1	926.8	874.4	756.3	603.2	507.6	453.1	431.6	423.3	422.3
45°	942.3	934.0	1018.3	996.7	788.1	622.7	516.9	463.4	438.8	431.6	429.5
47.5°	1017.3	1029.6	1090.2	1085.1	807.6	630.9	532.3	474.7	448.0	440.8	439.8
50°	1095.4	1109.7	1170.4	1079.9	820.0	637.1	543.6	482.9	452.1	443.9	441.8
52.5°	1112.8	1116.9	1158.0	1023.4	793.3	618.6	534.3	472.7	439.8	430.5	427.5
55°	995.7	964.9	1099.5	885.7	723.4	564.1	500.4	442.9	410.0	402.8	398.7
57.5°	825.1	777.8	884.7	732.6	617.5	502.5	444.9	398.7	367.9	359.6	355.5
60°	611.4	570.3	644.3	561.0	501.4	413.1	366.8	340.1	315.5	310.3	309.3
62.5°	503.5	484.0	521.0	478.8	431.6	368.9	333.9	311.3	289.8	287.7	287.7
65°	465.5	461.4	482.9	453.1	411.0	355.5	323.7	302.1	281.5	278.5	277.4
67.5°	449.0	450.1	460.3	446.0	409.0	353.5	321.6	299.0	278.5	275.4	274.4
70°	443.9	443.9	443.9	446.0	412.0	353.5	321.6	300.0	277.4	273.3	272.3
72.5°	440.8	440.8	433.6	441.8	409.0	351.4	321.6	299.0	276.4	271.3	270.2
75°	428.5	429.5	420.3	433.6	398.7	347.3	320.6	297.0	273.3	268.2	267.2
77.5°	401.8	403.8	397.7	415.1	381.2	339.1	315.5	292.8	269.2	263.0	262.0
80°	360.7	369.9	366.8	383.3	353.5	322.6	302.1	281.5	258.9	253.8	252.8
82.5°	316.5	327.8	329.8	342.2	318.5	297.0	279.5	263.0	242.5	238.4	237.4
85°	278.5	288.7	292.8	303.1	283.6	269.2	256.9	243.5	227.1	223.0	221.9
86°	264.1	274.4	277.4	288.7	270.2	257.9	248.7	236.3	221.9	216.8	215.8
87.5°	243.5	252.8	257.9	267.2	250.7	241.5	235.3	226.1	212.7	208.6	207.6
90°	214.8	224.0	227.1	232.2	218.9	213.7	211.7	205.5	196.3	192.1	192.1
92.5°	190.1	198.3	201.4	204.5	193.2	189.1	190.1	187.0	180.8	177.8	176.7
95°	167.5	174.7	176.7	179.8	170.6	169.5	174.7	173.7	168.5	165.4	164.4
97.5°	151.0	156.2	158.2	159.3	154.1	156.2	161.3	162.4	159.3	156.2	155.2
100°	139.7	142.8	145.9	148.0	142.8	145.9	152.1	153.1	151.0	149.0	148.0
102.5°	135.6	137.7	142.8	144.9	138.7	139.7	144.9	146.9	144.9	142.8	142.8
105°	138.7	139.7	148.0	151.0	141.8	138.7	140.8	142.8	139.7	138.7	138.7
107.5°	145.9	146.9	158.2	161.3	151.0	142.8	140.8	140.8	138.7	136.7	136.7



REPORT NUMBER: P212580

CATALOG NUMBER: MPB-AF-D-U-ASYM-7060-800

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	155.2	158.2	170.6	176.7	164.4	148.0	140.8	139.7	137.7	134.6	135.6
112.5°	168.5	170.6	185.0	193.2	178.8	153.1	140.8	137.7	134.6	132.6	133.6
115°	188.0	187.0	204.5	211.7	192.1	158.2	141.8	134.6	131.5	129.5	129.5
117.5°	210.6	208.6	226.1	226.1	202.4	162.4	141.8	131.5	127.4	125.4	125.4
120°	226.1	221.9	241.5	233.3	203.5	162.4	140.8	127.4	122.3	120.2	119.2
122.5°	223.0	218.9	241.5	223.0	188.0	150.0	131.5	120.2	114.1	112.0	111.0
125°	195.2	191.1	205.5	188.0	158.2	125.4	111.0	101.7	98.6	96.6	96.6
127.5°	158.2	155.2	158.2	146.9	124.3	100.7	89.4	83.2	81.2	80.1	80.1
130°	116.1	117.1	119.2	111.0	93.5	78.1	68.8	64.7	63.7	62.7	62.7
132.5°	84.3	84.3	86.3	81.2	67.8	58.6	53.4	50.3	50.3	49.3	49.3
135°	56.5	57.5	59.6	56.5	48.3	42.1	39.0	38.0	38.0	37.0	37.0
137.5°	40.1	42.1	43.2	40.1	36.0	31.9	28.8	27.7	28.8	27.7	27.7
140°	30.8	31.9	32.9	30.8	26.7	23.6	22.6	21.6	21.6	21.6	21.6
142.5°	23.6	23.6	24.7	22.6	19.5	17.5	16.4	16.4	16.4	16.4	16.4
145°	15.4	16.4	16.4	15.4	13.4	12.3	11.3	10.3	10.3	10.3	10.3
147.5°	8.2	9.2	10.3	9.2	8.2	7.2	6.2	6.2	5.1	5.1	5.1
150°	4.1	4.1	5.1	5.1	4.1	3.1	2.1	2.1	2.1	1.0	1.0
152.5°	2.1	2.1	3.1	3.1	2.1	1.0	0.0	0.0	0.0	0.0	0.0
155°	2.1	2.1	3.1	3.1	2.1	1.0	0.0	0.0	0.0	0.0	0.0
157.5°	2.1	2.1	2.1	3.1	2.1	1.0	0.0	0.0	0.0	0.0	0.0
160°	2.1	2.1	2.1	3.1	2.1	1.0	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)