

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: P212574

Luminaire Tested: **MPB-AF-D-U-ASYM-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P212574
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-7050-600
Description: BRECKENRIDGE LED POST-TOP LUMINAIRE
(1) 70 CRI, 5000K, 615mA LIGHTSQUARE WITH 16 LEDS AND ASYMMETRIC OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2937 lumens
Efficiency: N/A
Efficacy: 86.4 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): 34
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

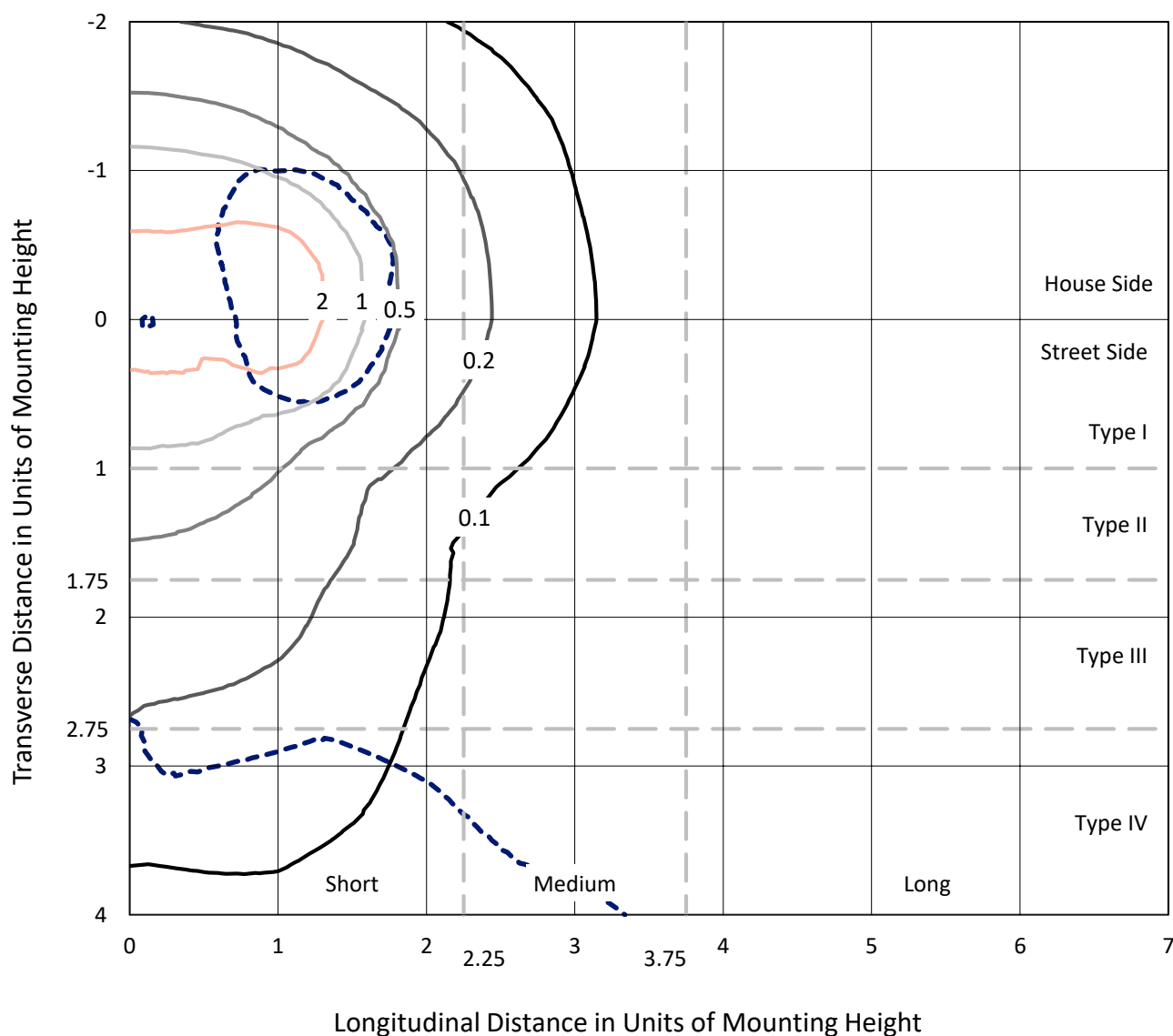


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

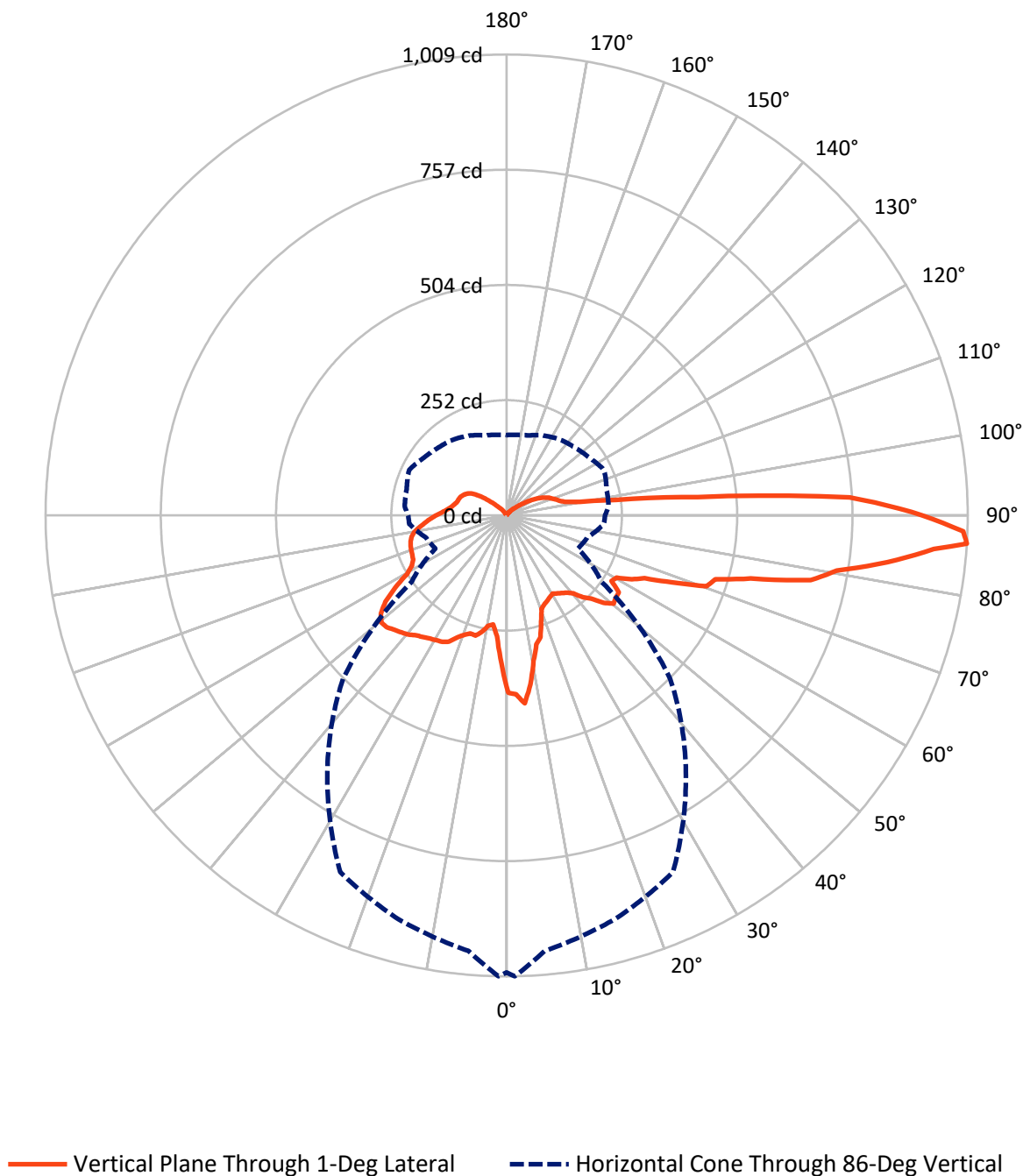


Based on 10 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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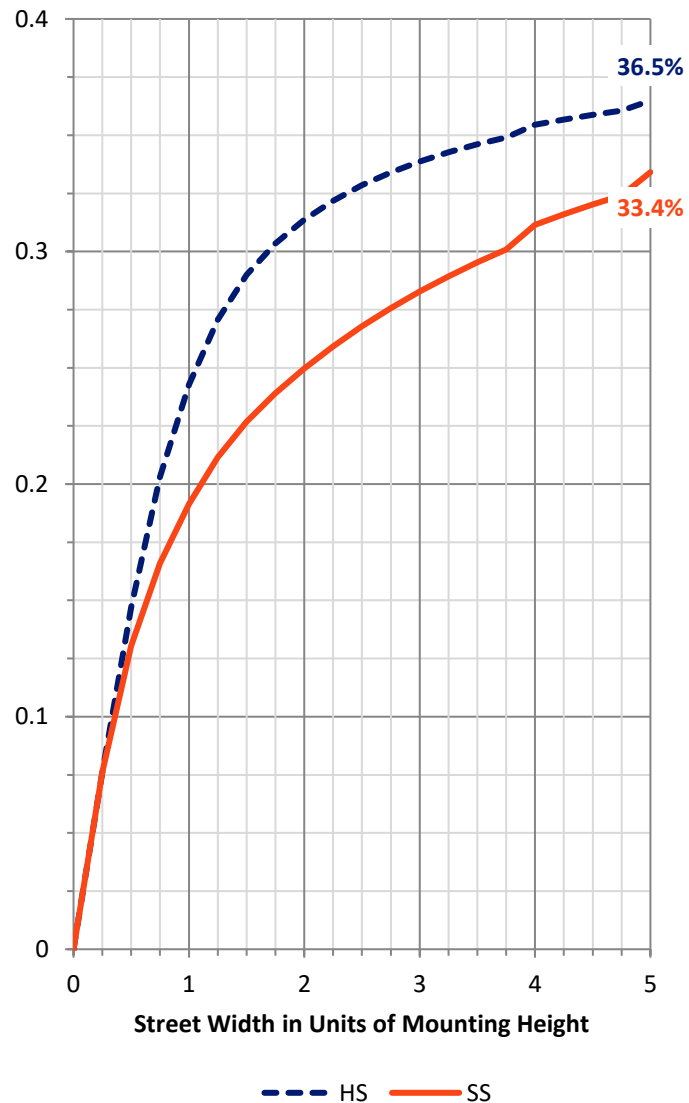
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1135.6	278.4	1414.0
	% Fixture	38.7	9.5	48.1
Street Side	Lumens	1194.5	328.5	1523.0
	% Fixture	40.7	11.2	51.9
Total	Lumens	2330.2	606.8	2937.0
	% Fixture	79.3	20.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.1	1.3
10°-20°	90.4	3.1
20°-30°	140.3	4.8
30°-40°	224.6	7.6
40°-50°	371.0	12.6
50°-60°	400.7	13.6
60°-70°	306.4	10.4
70°-80°	361.7	12.3
80°-90°	398.0	13.6
90°-100°	241.7	8.2
100°-110°	123.0	4.2
110°-120°	119.7	4.1
120°-130°	87.9	3.0
130°-140°	27.9	0.9
140°-150°	6.2	0.2
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2330.2	79.3
0°-180°	2937.0	100.0

Coefficient of Utilization



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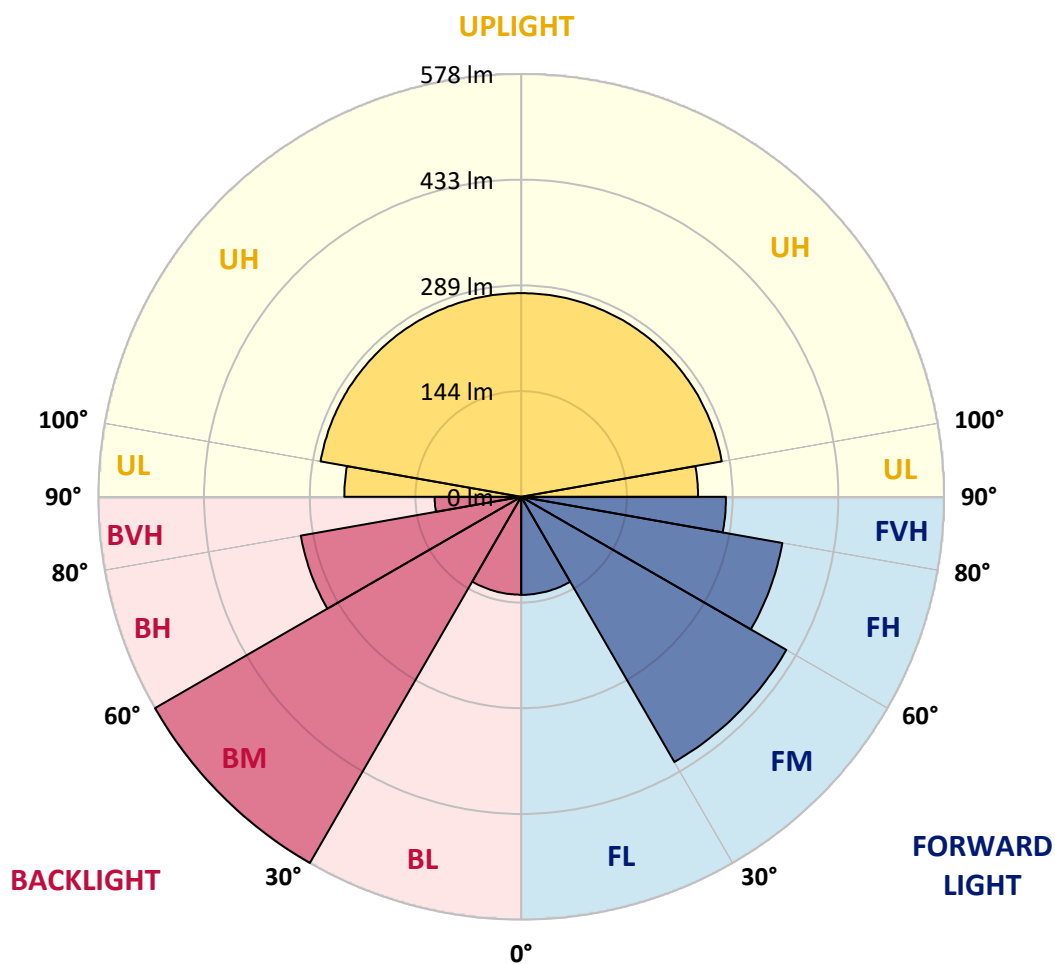
CATALOG NUMBER: MPB-AF-D-U-ASYM-7050-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	134.0	4.6			
FM	(30°-60°)	418.4	14.2			
FH	(60°-80°)	362.3	12.3			G0/660
FVH	(80°-90°)	279.8	9.5			G3/500
BL	(0°-30°)	133.8	4.6	B1/500		
BM	(30°-60°)	577.8	19.7	B1/1000		
BH	(60°-80°)	305.8	10.4	B1/500		G1/500
BVH	(80°-90°)	118.2	4.0			G2/225
UL	(90°-100°)	241.7	8.2		U3/500	
UH	(100°-180°)	278.4	9.5		U3/500	

BUG Rating: B1-U3-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	387.9	387.9	387.9	387.9	387.9	387.9	387.9	387.9	387.9	387.9	387.9
2.5°	392.9	392.1	390.4	392.9	395.5	414.7	427.3	425.6	410.5	403.8	398.8
5°	418.9	413.1	408.9	415.6	415.6	450.8	468.3	442.4	437.3	449.9	436.5
7.5°	375.3	373.7	372.0	379.5	393.8	455.8	465.8	525.3	542.9	522.0	519.5
10°	320.9	323.4	320.9	361.1	417.2	460.0	403.8	418.9	446.6	455.8	411.4
12.5°	286.5	289.9	293.2	319.2	334.3	320.9	346.9	356.9	374.5	372.0	353.6
15°	273.1	276.5	274.8	263.1	279.8	304.1	325.1	345.2	365.3	346.0	346.0
17.5°	252.2	244.6	243.0	231.2	260.6	294.1	332.6	360.3	355.2	384.6	410.5
20°	220.4	217.8	217.8	223.7	248.8	289.9	359.4	421.4	463.3	430.6	391.3
22.5°	212.0	211.1	214.5	224.5	248.8	269.8	300.8	327.6	331.8	328.4	327.6
25°	206.9	206.9	210.3	222.0	231.2	247.2	284.9	308.3	310.0	326.8	326.8
27.5°	204.4	201.9	201.9	213.6	226.2	250.5	270.6	292.4	303.3	336.8	392.1
30°	199.4	198.6	199.4	211.1	230.4	246.3	272.3	290.7	306.6	340.2	356.1
32.5°	201.9	203.6	201.1	209.5	224.5	246.3	276.5	305.8	317.5	376.2	403.8
35°	208.6	208.6	205.3	209.5	221.2	243.0	279.8	324.2	346.0	422.3	463.3
37.5°	212.0	214.5	213.6	220.4	232.9	250.5	281.5	340.2	384.6	454.9	531.2
40°	224.5	224.5	225.4	237.1	246.3	258.1	282.3	348.5	434.8	494.3	616.6
42.5°	242.1	244.6	241.3	240.5	248.0	263.9	282.3	345.2	496.8	553.8	716.3
45°	256.4	259.7	257.2	263.1	262.2	274.8	282.3	337.6	515.3	619.2	804.3
47.5°	289.1	285.7	289.1	290.7	283.2	288.2	292.4	336.0	511.1	696.2	852.9
50°	302.5	303.3	300.8	295.8	294.1	289.1	293.2	324.2	496.8	748.2	883.9
52.5°	301.6	299.1	302.5	294.9	289.1	287.4	280.7	304.1	469.2	723.1	809.3
55°	300.8	297.4	291.6	281.5	271.5	269.8	266.4	282.3	404.7	605.8	710.5
57.5°	270.6	270.6	267.3	267.3	258.9	250.5	250.5	245.5	338.5	491.0	610.8
60°	275.6	276.5	273.1	278.2	272.3	248.8	252.2	219.5	283.2	371.2	446.6
62.5°	310.8	307.5	299.9	299.9	292.4	253.9	236.3	212.0	255.5	316.7	372.8
65°	334.3	331.8	332.6	338.5	330.1	282.3	263.1	214.5	245.5	303.3	352.7
67.5°	388.8	390.4	392.9	408.9	379.5	320.1	293.2	220.4	241.3	300.8	347.7
70°	483.4	464.2	449.9	414.7	403.0	330.9	300.8	226.2	237.9	300.8	344.3
72.5°	471.7	477.6	470.0	483.4	480.1	386.2	309.2	235.4	235.4	295.8	343.5
75°	558.8	551.3	568.1	620.8	563.9	444.1	359.4	245.5	228.7	286.5	336.8
77.5°	682.8	680.3	661.1	646.0	612.5	470.0	417.2	273.1	212.8	267.3	317.5
80°	740.6	732.3	745.7	715.5	699.6	541.2	411.4	261.4	194.4	243.0	288.2
82.5°	843.7	839.5	847.9	928.3	797.6	620.0	452.4	267.3	181.8	217.0	255.5
85°	933.3	937.5	965.2	935.0	866.3	677.0	478.4	279.0	175.1	192.7	225.4
86°	1000.4	1008.8	956.8	914.9	861.3	683.7	506.1	253.9	171.8	183.5	213.6
87.5°	987.0	999.5	981.1	963.5	899.0	705.5	516.9	226.2	168.4	170.1	196.9
90°	914.1	886.4	916.6	944.2	827.8	636.8	465.0	233.8	153.3	152.5	173.4
92.5°	754.9	751.5	733.1	727.2	656.0	513.6	390.4	195.2	140.8	136.6	154.2
95°	447.4	420.6	406.3	478.4	434.8	395.5	287.4	181.8	126.5	122.3	135.7
97.5°	250.5	242.1	232.9	265.6	276.5	248.0	186.0	133.2	112.3	112.3	122.3
100°	169.2	162.5	160.0	160.9	174.3	160.9	134.1	108.9	101.4	105.6	113.1
102.5°	131.5	130.7	128.2	129.9	132.4	124.0	112.3	103.1	99.7	105.6	109.8
105°	119.8	119.8	117.3	116.5	119.0	111.4	105.6	99.7	101.4	109.8	112.3
107.5°	112.3	113.1	109.8	109.8	109.8	105.6	100.5	98.0	104.7	115.6	118.1



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CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	105.6	105.6	103.1	103.1	103.9	99.7	96.4	96.4	108.1	122.3	125.7
112.5°	98.9	99.7	97.2	97.2	97.2	93.8	92.2	95.5	112.3	130.7	135.7
115°	90.5	90.5	88.8	90.5	90.5	88.8	88.8	95.5	121.5	143.3	150.8
117.5°	80.4	80.4	79.6	82.1	82.9	83.8	86.3	96.4	131.5	157.5	169.2
120°	69.5	69.5	69.5	72.9	74.6	77.1	82.1	94.7	137.4	168.4	181.0
122.5°	57.8	57.8	57.8	60.3	62.8	67.9	74.6	88.0	131.5	162.5	176.8
125°	46.1	46.1	46.9	48.6	51.9	57.0	63.7	76.2	113.1	139.9	155.0
127.5°	36.9	36.9	36.9	38.5	41.1	46.1	51.9	62.8	88.8	111.4	125.7
130°	29.3	29.3	29.3	30.2	31.8	35.2	41.1	50.3	67.9	83.8	94.7
132.5°	23.5	22.6	23.5	23.5	25.1	27.6	31.0	36.9	47.8	59.5	67.9
135°	19.3	19.3	19.3	19.3	20.1	20.9	24.3	26.8	32.7	40.2	44.4
137.5°	15.1	15.1	15.1	15.1	15.9	15.9	17.6	20.1	22.6	27.6	31.8
140°	11.7	11.7	11.7	11.7	11.7	12.6	13.4	14.2	16.8	20.9	24.3
142.5°	9.2	9.2	9.2	9.2	9.2	9.2	10.1	10.9	12.6	15.1	17.6
145°	5.9	6.7	5.9	5.9	5.9	5.9	6.7	6.7	8.4	10.1	11.7
147.5°	3.4	4.2	3.4	3.4	3.4	3.4	3.4	4.2	4.2	5.9	6.7
150°	1.7	1.7	1.7	1.7	1.7	0.8	1.7	1.7	1.7	2.5	3.4
152.5°	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	1.7	1.7
155°	0.0	0.0	0.0	0.8	0.8	0.8	0.0	0.8	0.8	1.7	1.7
157.5°	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	1.7	1.7
160°	0.0	0.0	0.0	0.8	0.8	0.8	0.0	0.8	0.8	1.7	1.7
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°	387.9	387.9	387.9	387.9	387.9	387.9	387.9	387.9	387.9	387.9	387.9
2.5°	397.1	397.1	399.6	399.6	397.1	387.1	372.0	356.9	339.3	326.8	323.4
5°	427.3	413.9	399.6	376.2	356.1	351.9	321.7	294.1	278.2	266.4	264.8
7.5°	519.5	502.7	444.9	429.0	402.2	368.6	284.0	256.4	245.5	241.3	240.5
10°	390.4	368.6	334.3	321.7	316.7	298.3	270.6	253.9	248.0	246.3	244.6
12.5°	341.8	330.9	315.9	305.0	297.4	282.3	266.4	256.4	254.7	259.7	260.6
15°	341.0	345.2	337.6	311.7	290.7	278.2	268.9	267.3	268.1	272.3	271.5
17.5°	421.4	404.7	377.0	337.6	307.5	308.3	306.6	281.5	278.2	271.5	269.8
20°	376.2	359.4	356.1	332.6	324.2	297.4	303.3	292.4	286.5	279.0	276.5
22.5°	325.9	318.4	304.1	298.3	295.8	304.1	304.1	294.9	291.6	288.2	287.4
25°	322.6	323.4	340.2	339.3	315.0	319.2	313.3	303.3	303.3	305.0	303.3
27.5°	392.1	371.2	347.7	346.9	336.8	347.7	329.3	315.0	314.2	311.7	310.0
30°	358.6	358.6	364.5	362.8	355.2	349.4	339.3	325.9	320.9	315.0	313.3
32.5°	407.2	410.5	423.9	408.9	390.4	372.8	355.2	336.0	325.9	318.4	317.5
35°	449.9	456.6	494.3	463.3	439.0	401.3	374.5	346.0	330.9	324.2	322.6
37.5°	505.2	511.1	573.9	524.5	485.9	432.3	395.5	357.8	338.5	329.3	328.4
40°	578.9	579.8	647.6	603.2	558.0	466.7	408.0	367.0	348.5	338.5	337.6
42.5°	677.0	671.9	755.7	713.0	616.6	491.8	413.9	369.5	351.9	345.2	344.3
45°	768.3	761.6	830.3	812.7	642.6	507.7	421.4	377.9	357.8	351.9	350.2
47.5°	829.5	839.5	888.9	884.8	658.5	514.4	434.0	387.1	365.3	359.4	358.6
50°	893.1	904.9	954.3	880.6	668.6	519.5	443.2	393.8	368.6	361.9	360.3
52.5°	907.4	910.7	944.2	834.5	646.8	504.4	435.7	385.4	358.6	351.1	348.5
55°	811.9	786.7	896.5	722.2	589.8	460.0	408.0	361.1	334.3	328.4	325.1
57.5°	672.8	634.2	721.4	597.4	503.5	409.7	362.8	325.1	299.9	293.2	289.9
60°	498.5	465.0	525.3	457.5	408.9	336.8	299.1	277.3	257.2	253.0	252.2
62.5°	410.5	394.6	424.8	390.4	351.9	300.8	272.3	253.9	236.3	234.6	234.6
65°	379.5	376.2	393.8	369.5	335.1	289.9	263.9	246.3	229.6	227.1	226.2
67.5°	366.1	367.0	375.3	363.6	333.5	288.2	262.2	243.8	227.1	224.5	223.7
70°	361.9	361.9	361.9	363.6	336.0	288.2	262.2	244.6	226.2	222.9	222.0
72.5°	359.4	359.4	353.6	360.3	333.5	286.5	262.2	243.8	225.4	221.2	220.4
75°	349.4	350.2	342.7	353.6	325.1	283.2	261.4	242.1	222.9	218.7	217.8
77.5°	327.6	329.3	324.2	338.5	310.8	276.5	257.2	238.8	219.5	214.5	213.6
80°	294.1	301.6	299.1	312.5	288.2	263.1	246.3	229.6	211.1	206.9	206.1
82.5°	258.1	267.3	268.9	279.0	259.7	242.1	227.9	214.5	197.7	194.4	193.5
85°	227.1	235.4	238.8	247.2	231.2	219.5	209.5	198.6	185.2	181.8	181.0
86°	215.3	223.7	226.2	235.4	220.4	210.3	202.8	192.7	181.0	176.8	175.9
87.5°	198.6	206.1	210.3	217.8	204.4	196.9	191.9	184.3	173.4	170.1	169.2
90°	175.1	182.6	185.2	189.4	178.5	174.3	172.6	167.6	160.0	156.7	156.7
92.5°	155.0	161.7	164.2	166.7	157.5	154.2	155.0	152.5	147.5	144.9	144.1
95°	136.6	142.4	144.1	146.6	139.1	138.2	142.4	141.6	137.4	134.9	134.1
97.5°	123.2	127.4	129.0	129.9	125.7	127.4	131.5	132.4	129.9	127.4	126.5
100°	113.9	116.5	119.0	120.6	116.5	119.0	124.0	124.8	123.2	121.5	120.6
102.5°	110.6	112.3	116.5	118.1	113.1	113.9	118.1	119.8	118.1	116.5	116.5
105°	113.1	113.9	120.6	123.2	115.6	113.1	114.8	116.5	113.9	113.1	113.1
107.5°	119.0	119.8	129.0	131.5	123.2	116.5	114.8	114.8	113.1	111.4	111.4



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CATALOG NUMBER: MPB-AF-D-U-ASYM-7050-600

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	126.5	129.0	139.1	144.1	134.1	120.6	114.8	113.9	112.3	109.8	110.6
112.5°	137.4	139.1	150.8	157.5	145.8	124.8	114.8	112.3	109.8	108.1	108.9
115°	153.3	152.5	166.7	172.6	156.7	129.0	115.6	109.8	107.2	105.6	105.6
117.5°	171.8	170.1	184.3	184.3	165.1	132.4	115.6	107.2	103.9	102.2	102.2
120°	184.3	181.0	196.9	190.2	165.9	132.4	114.8	103.9	99.7	98.0	97.2
122.5°	181.8	178.5	196.9	181.8	153.3	122.3	107.2	98.0	93.0	91.3	90.5
125°	159.2	155.8	167.6	153.3	129.0	102.2	90.5	82.9	80.4	78.8	78.8
127.5°	129.0	126.5	129.0	119.8	101.4	82.1	72.9	67.9	66.2	65.4	65.4
130°	94.7	95.5	97.2	90.5	76.2	63.7	56.1	52.8	51.9	51.1	51.1
132.5°	68.7	68.7	70.4	66.2	55.3	47.8	43.6	41.1	41.1	40.2	40.2
135°	46.1	46.9	48.6	46.1	39.4	34.4	31.8	31.0	31.0	30.2	30.2
137.5°	32.7	34.4	35.2	32.7	29.3	26.0	23.5	22.6	23.5	22.6	22.6
140°	25.1	26.0	26.8	25.1	21.8	19.3	18.4	17.6	17.6	17.6	17.6
142.5°	19.3	19.3	20.1	18.4	15.9	14.2	13.4	13.4	13.4	13.4	13.4
145°	12.6	13.4	13.4	12.6	10.9	10.1	9.2	8.4	8.4	8.4	8.4
147.5°	6.7	7.5	8.4	7.5	6.7	5.9	5.0	5.0	4.2	4.2	4.2
150°	3.4	3.4	4.2	4.2	3.4	2.5	1.7	1.7	1.7	0.8	0.8
152.5°	1.7	1.7	2.5	2.5	1.7	0.8	0.0	0.0	0.0	0.0	0.0
155°	1.7	1.7	2.5	2.5	1.7	0.8	0.0	0.0	0.0	0.0	0.0
157.5°	1.7	1.7	1.7	2.5	1.7	0.8	0.0	0.0	0.0	0.0	0.0
160°	1.7	1.7	1.7	2.5	1.7	0.8	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)