

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: P212572

Luminaire Tested: **MPB-AF-D-U-ASYM-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P212572
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-7030-600
Description: BRECKENRIDGE LED POST-TOP LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND ASYMMETRIC OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2840.7 lumens
Efficiency: N/A
Efficacy: 83.6 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



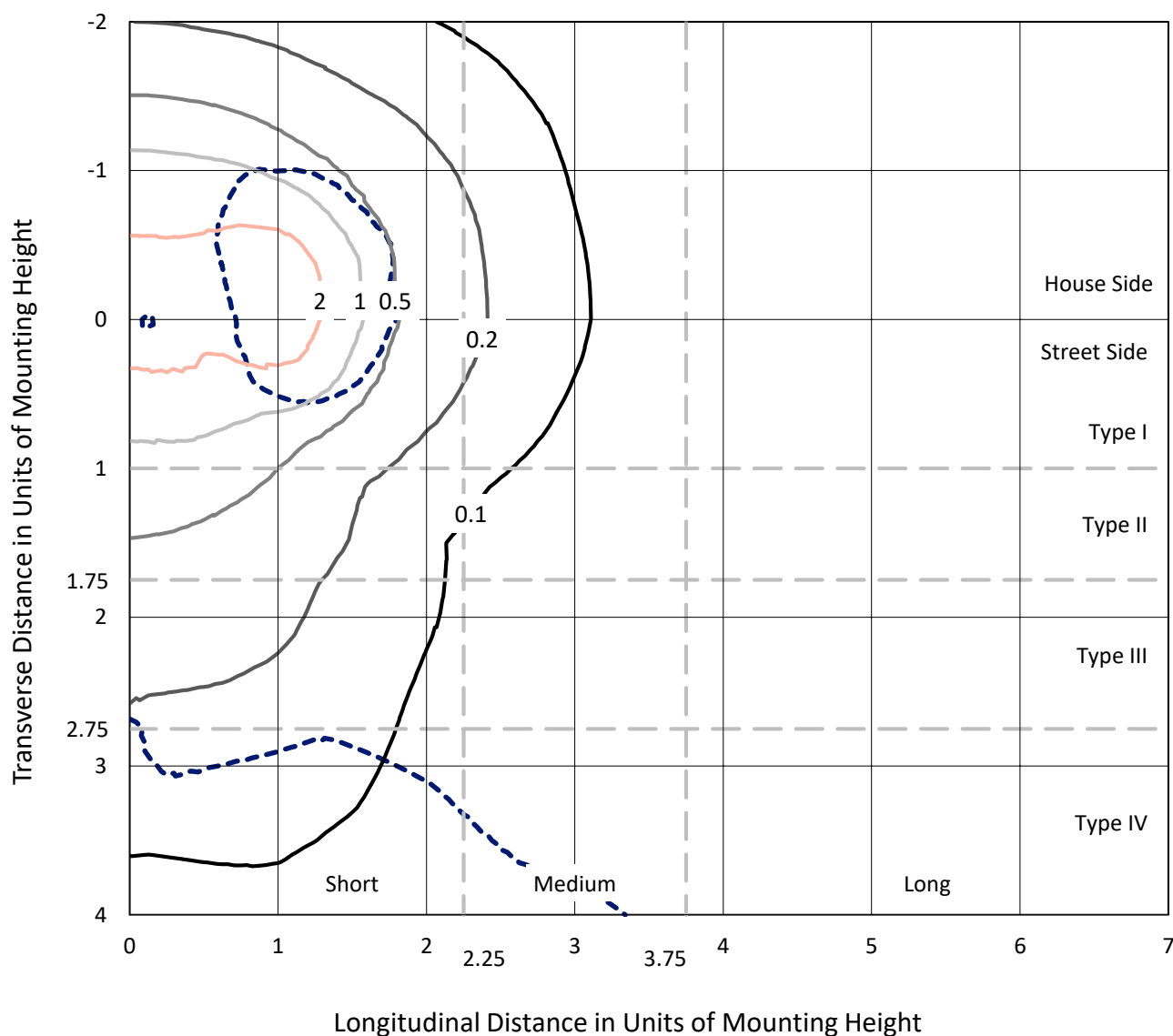
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

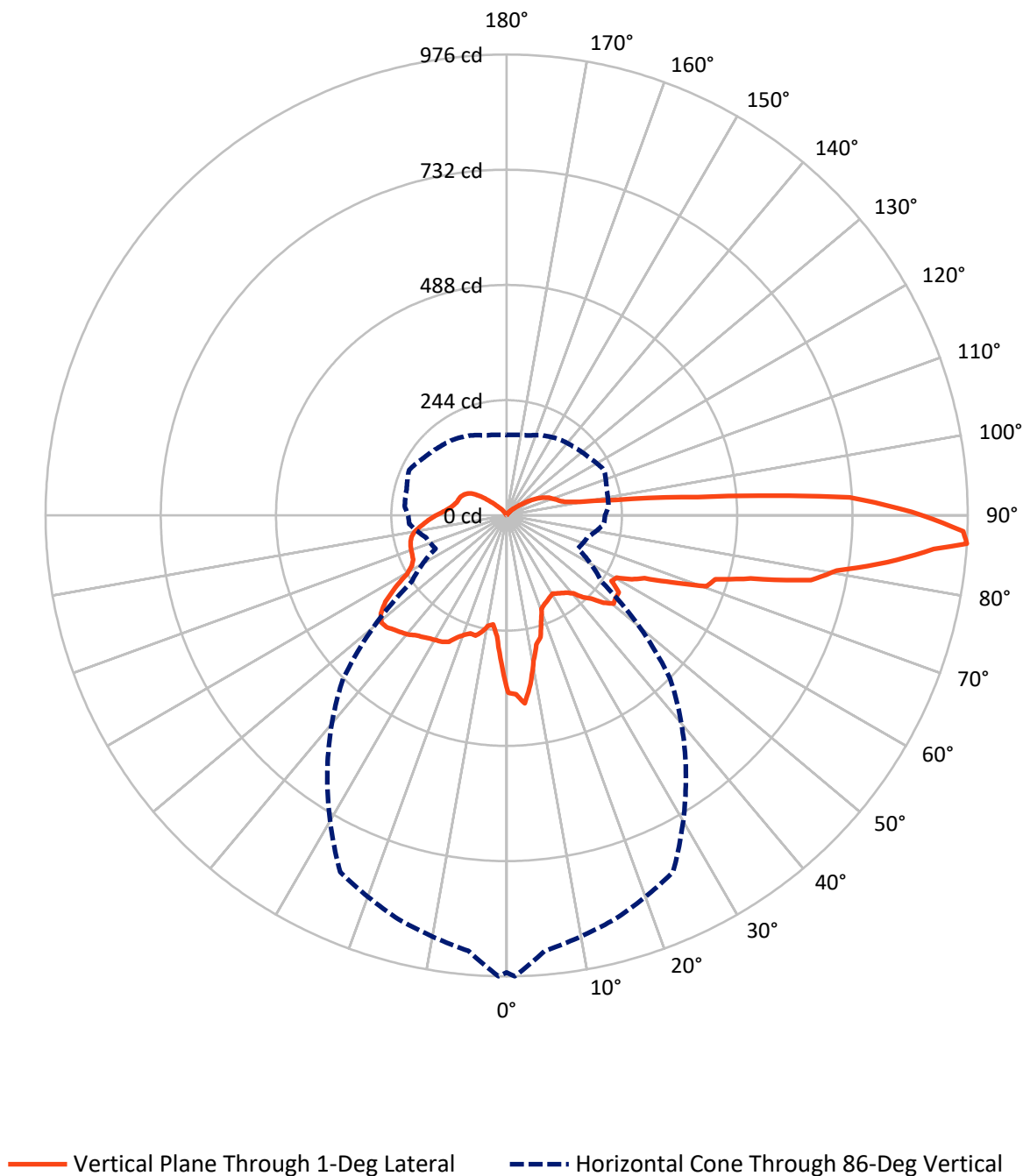


Based on 10 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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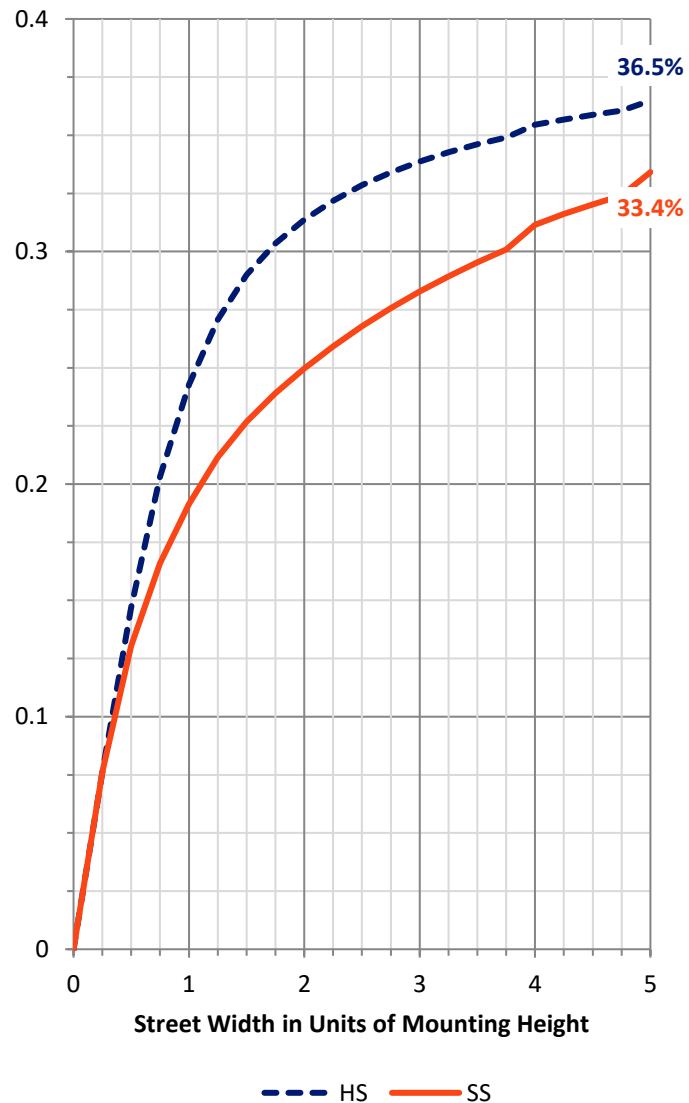
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1098.4	269.2	1367.6
	% Fixture	38.7	9.5	48.1
Street Side	Lumens	1155.4	317.7	1473.1
	% Fixture	40.7	11.2	51.9
Total	Lumens	2253.8	586.9	2840.7
	% Fixture	79.3	20.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.9	1.3
10°-20°	87.4	3.1
20°-30°	135.7	4.8
30°-40°	217.2	7.6
40°-50°	358.8	12.6
50°-60°	387.5	13.6
60°-70°	296.4	10.4
70°-80°	349.9	12.3
80°-90°	385.0	13.6
90°-100°	233.7	8.2
100°-110°	119.0	4.2
110°-120°	115.8	4.1
120°-130°	85.0	3.0
130°-140°	27.0	0.9
140°-150°	6.0	0.2
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2253.8	79.3
0°-180°	2840.7	100.0

Coefficient of Utilization



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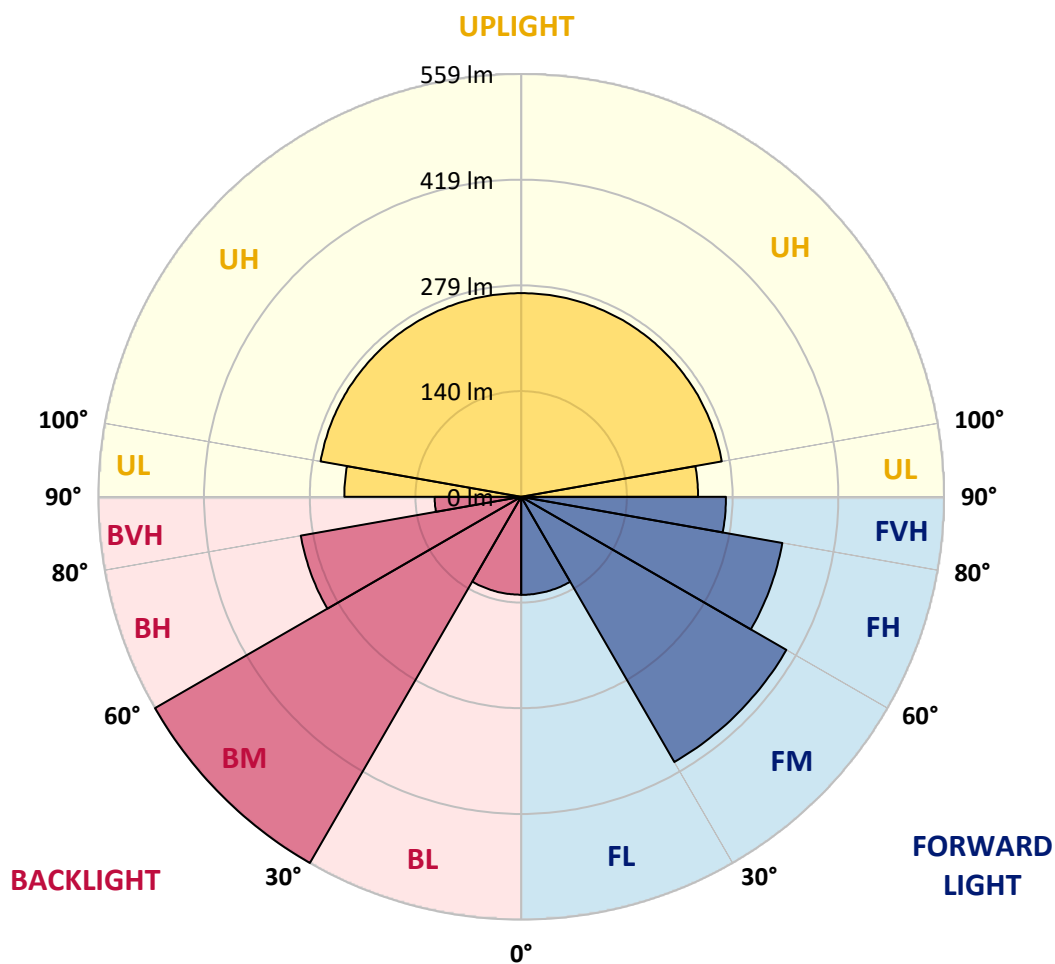
CATALOG NUMBER: MPB-AF-D-U-ASYM-7030-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	129.6	4.6			
FM	(30°-60°)	404.7	14.2			
FH	(60°-80°)	350.5	12.3			G0/660
FVH	(80°-90°)	270.6	9.5			G3/500
BL	(0°-30°)	129.4	4.6	B1/500		
BM	(30°-60°)	558.9	19.7	B1/1000		
BH	(60°-80°)	295.8	10.4	B1/500		G1/500
BVH	(80°-90°)	114.4	4.0			G2/225
UL	(90°-100°)	233.7	8.2		U3/500	
UH	(100°-180°)	269.2	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°	375.2	375.2	375.2	375.2	375.2	375.2	375.2	375.2	375.2	375.2	375.2
2.5°	380.1	379.2	377.6	380.1	382.5	401.1	413.3	411.7	397.0	390.6	385.7
5°	405.1	399.6	395.4	402.0	402.0	435.9	453.0	427.9	423.1	435.2	422.2
7.5°	363.1	361.4	359.8	367.1	380.9	440.9	450.6	508.1	525.1	504.9	502.5
10°	310.4	312.8	310.4	349.3	403.6	444.9	390.6	405.1	431.9	440.9	397.9
12.5°	277.2	280.4	283.6	308.8	323.3	310.4	335.5	345.3	362.2	359.8	342.0
15°	264.2	267.5	265.8	254.5	270.6	294.1	314.4	333.9	353.3	334.7	334.7
17.5°	244.0	236.7	235.0	223.7	252.1	284.4	321.8	348.4	343.6	371.9	397.0
20°	213.2	210.7	210.7	216.3	240.7	280.4	347.7	407.6	448.2	416.5	378.5
22.5°	205.0	204.2	207.5	217.2	240.7	260.9	291.0	316.9	320.9	317.6	316.9
25°	200.2	200.2	203.4	214.8	223.7	239.1	275.6	298.2	299.8	316.1	316.1
27.5°	197.8	195.2	195.2	206.6	218.8	242.3	261.8	282.9	293.4	325.8	379.2
30°	192.8	192.1	192.8	204.2	222.9	238.3	263.4	281.2	296.6	329.0	344.4
32.5°	195.2	196.9	194.5	202.6	217.2	238.3	267.5	295.8	307.1	363.8	390.6
35°	201.8	201.8	198.5	202.6	213.9	235.0	270.6	313.6	334.7	408.4	448.2
37.5°	205.0	207.5	206.6	213.2	225.3	242.3	272.3	329.0	371.9	440.0	513.7
40°	217.2	217.2	218.0	229.3	238.3	249.5	273.1	337.1	420.5	478.1	596.4
42.5°	234.3	236.7	233.4	232.6	239.8	255.2	273.1	333.9	480.5	535.7	692.9
45°	248.0	251.2	248.8	254.5	253.7	265.8	273.1	326.6	498.3	598.8	777.9
47.5°	279.6	276.3	279.6	281.2	273.9	278.7	282.9	324.9	494.3	673.5	824.9
50°	292.6	293.4	291.0	286.0	284.4	279.6	283.6	313.6	480.5	723.6	855.0
52.5°	291.7	289.3	292.6	285.3	279.6	278.0	271.5	294.1	453.9	699.4	782.8
55°	291.0	287.7	282.0	272.3	262.6	260.9	257.7	273.1	391.4	585.8	687.2
57.5°	261.8	261.8	258.5	258.5	250.4	242.3	242.3	237.4	327.3	474.8	590.8
60°	266.6	267.5	264.2	269.0	263.4	240.7	244.0	212.3	273.9	359.0	431.9
62.5°	300.7	297.4	290.1	290.1	282.9	245.5	228.6	205.0	247.1	306.4	360.7
65°	323.3	320.9	321.8	327.3	319.3	273.1	254.5	207.5	237.4	293.4	341.2
67.5°	376.0	377.6	380.1	395.4	367.1	309.5	283.6	213.2	233.4	291.0	336.3
70°	467.6	448.9	435.2	401.1	389.8	320.1	291.0	218.8	230.1	291.0	333.0
72.5°	456.3	461.9	454.6	467.6	464.4	373.6	299.0	227.7	227.7	286.0	332.3
75°	540.5	533.2	549.5	600.5	545.4	429.5	347.7	237.4	221.2	277.2	325.8
77.5°	660.5	658.1	639.4	624.7	592.4	454.6	403.6	264.2	205.8	258.5	307.1
80°	716.4	708.2	721.2	692.0	676.6	523.5	397.9	252.8	188.0	235.0	278.7
82.5°	816.1	812.0	820.1	897.9	771.5	599.7	437.6	258.5	175.8	209.9	247.1
85°	902.8	906.9	933.5	904.3	837.9	654.8	462.7	269.9	169.4	186.4	218.0
86°	967.6	975.7	925.4	884.9	833.1	661.2	489.5	245.5	166.1	177.4	206.6
87.5°	954.6	966.7	948.9	932.0	869.5	682.3	500.0	218.8	162.9	164.5	190.4
90°	884.1	857.4	886.5	913.3	800.7	615.9	449.7	226.1	148.3	147.5	167.7
92.5°	730.2	726.9	709.1	703.4	634.5	496.8	377.6	188.8	136.1	132.1	149.1
95°	432.8	406.8	393.0	462.7	420.5	382.5	278.0	175.8	122.4	118.3	131.3
97.5°	242.3	234.3	225.3	256.9	267.5	239.8	180.0	128.8	108.6	108.6	118.3
100°	163.7	157.2	154.8	155.6	168.6	155.6	129.7	105.3	98.0	102.2	109.4
102.5°	127.2	126.4	124.0	125.6	128.1	120.0	108.6	99.6	96.5	102.2	106.2
105°	115.9	115.9	113.4	112.6	115.0	107.7	102.2	96.5	98.0	106.2	108.6
107.5°	108.6	109.4	106.2	106.2	106.2	102.2	97.2	94.8	101.3	111.9	114.3



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CATALOG NUMBER: MPB-AF-D-U-ASYM-7030-600

CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	102.2	102.2	99.6	99.6	100.5	96.5	93.2	93.2	104.6	118.3	121.6
112.5°	95.6	96.5	94.0	94.0	94.0	90.8	89.2	92.4	108.6	126.4	131.3
115°	87.5	87.5	85.9	87.5	87.5	85.9	85.9	92.4	117.5	138.5	145.9
117.5°	77.8	77.8	77.0	79.4	80.2	81.1	83.5	93.2	127.2	152.3	163.7
120°	67.3	67.3	67.3	70.5	72.1	74.5	79.4	91.6	132.9	162.9	175.0
122.5°	55.9	55.9	55.9	58.3	60.7	65.7	72.1	85.1	127.2	157.2	171.0
125°	44.6	44.6	45.3	47.0	50.3	55.1	61.6	73.8	109.4	135.4	149.9
127.5°	35.6	35.6	35.6	37.3	39.7	44.6	50.3	60.7	85.9	107.7	121.6
130°	28.4	28.4	28.4	29.2	30.8	34.1	39.7	48.6	65.7	81.1	91.6
132.5°	22.7	21.9	22.7	22.7	24.4	26.8	29.9	35.6	46.2	57.6	65.7
135°	18.7	18.7	18.7	18.7	19.4	20.2	23.5	25.9	31.6	38.9	42.9
137.5°	14.6	14.6	14.6	14.6	15.4	15.4	17.0	19.4	21.9	26.8	30.8
140°	11.4	11.4	11.4	11.4	11.4	12.1	13.0	13.8	16.2	20.2	23.5
142.5°	9.0	9.0	9.0	9.0	9.0	9.0	9.7	10.5	12.1	14.6	17.0
145°	5.7	6.4	5.7	5.7	5.7	5.7	6.4	6.4	8.1	9.7	11.4
147.5°	3.3	4.0	3.3	3.3	3.3	3.3	3.3	4.0	4.0	5.7	6.4
150°	1.6	1.6	1.6	1.6	1.6	0.8	1.6	1.6	1.6	2.4	3.3
152.5°	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6
155°	0.0	0.0	0.0	0.8	0.8	0.8	0.0	0.8	0.8	1.6	1.6
157.5°	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6
160°	0.0	0.0	0.0	0.8	0.8	0.8	0.0	0.8	0.8	1.6	1.6
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°	375.2	375.2	375.2	375.2	375.2	375.2	375.2	375.2	375.2	375.2	375.2
2.5°	384.2	384.2	386.6	386.6	384.2	374.4	359.8	345.3	328.2	316.1	312.8
5°	413.3	400.3	386.6	363.8	344.4	340.3	311.2	284.4	269.0	257.7	256.1
7.5°	502.5	486.2	430.3	414.9	389.0	356.5	274.7	248.0	237.4	233.4	232.6
10°	377.6	356.5	323.3	311.2	306.4	288.4	261.8	245.5	239.8	238.3	236.7
12.5°	330.6	320.1	305.5	295.0	287.7	273.1	257.7	248.0	246.4	251.2	252.1
15°	329.9	333.9	326.6	301.4	281.2	269.0	260.1	258.5	259.3	263.4	262.6
17.5°	407.6	391.4	364.7	326.6	297.4	298.2	296.6	272.3	269.0	262.6	260.9
20°	363.8	347.7	344.4	321.8	313.6	287.7	293.4	282.9	277.2	269.9	267.5
22.5°	315.2	307.9	294.1	288.4	286.0	294.1	294.1	285.3	282.0	278.7	278.0
25°	312.0	312.8	329.0	328.2	304.7	308.8	303.1	293.4	293.4	295.0	293.4
27.5°	379.2	359.0	336.3	335.5	325.8	336.3	318.5	304.7	303.8	301.4	299.8
30°	346.8	346.8	352.5	350.9	343.6	337.9	328.2	315.2	310.4	304.7	303.1
32.5°	393.9	397.0	410.0	395.4	377.6	360.7	343.6	324.9	315.2	307.9	307.1
35°	435.2	441.6	478.1	448.2	424.6	388.2	362.2	334.7	320.1	313.6	312.0
37.5°	488.6	494.3	555.1	507.3	470.0	418.1	382.5	346.0	327.3	318.5	317.6
40°	560.0	560.8	626.4	583.4	539.7	451.4	394.6	355.0	337.1	327.3	326.6
42.5°	654.8	649.9	730.9	689.6	596.4	475.7	400.3	357.4	340.3	333.9	333.0
45°	743.1	736.6	803.1	786.0	621.6	491.1	407.6	365.5	346.0	340.3	338.7
47.5°	802.3	812.0	859.8	855.7	637.0	497.6	419.8	374.4	353.3	347.7	346.8
50°	863.9	875.2	923.0	851.7	646.7	502.5	428.7	380.9	356.5	350.1	348.4
52.5°	877.7	880.8	913.3	807.1	625.6	487.8	421.4	372.8	346.8	339.6	337.1
55°	785.2	761.0	867.1	698.5	570.6	444.9	394.6	349.3	323.3	317.6	314.4
57.5°	650.7	613.5	697.7	577.8	487.1	396.3	350.9	314.4	290.1	283.6	280.4
60°	482.2	449.7	508.1	442.5	395.4	325.8	289.3	268.2	248.8	244.7	244.0
62.5°	397.0	381.6	410.8	377.6	340.3	291.0	263.4	245.5	228.6	226.9	226.9
65°	367.1	363.8	380.9	357.4	324.2	280.4	255.2	238.3	222.0	219.6	218.8
67.5°	354.1	355.0	363.1	351.7	322.5	278.7	253.7	235.8	219.6	217.2	216.3
70°	350.1	350.1	350.1	351.7	324.9	278.7	253.7	236.7	218.8	215.6	214.8
72.5°	347.7	347.7	342.0	348.4	322.5	277.2	253.7	235.8	218.0	213.9	213.2
75°	337.9	338.7	331.5	342.0	314.4	273.9	252.8	234.3	215.6	211.5	210.7
77.5°	316.9	318.5	313.6	327.3	300.7	267.5	248.8	231.0	212.3	207.5	206.6
80°	284.4	291.7	289.3	302.3	278.7	254.5	238.3	222.0	204.2	200.2	199.4
82.5°	249.5	258.5	260.1	269.9	251.2	234.3	220.4	207.5	191.2	188.0	187.2
85°	219.6	227.7	231.0	239.1	223.7	212.3	202.6	192.1	179.1	175.8	175.0
86°	208.2	216.3	218.8	227.7	213.2	203.4	196.1	186.4	175.0	171.0	170.2
87.5°	192.1	199.4	203.4	210.7	197.8	190.4	185.5	178.3	167.7	164.5	163.7
90°	169.4	176.7	179.1	183.1	172.6	168.6	166.9	162.0	154.8	151.5	151.5
92.5°	149.9	156.4	158.9	161.3	152.3	149.1	149.9	147.5	142.6	140.2	139.4
95°	132.1	137.8	139.4	141.8	134.5	133.7	137.8	136.9	132.9	130.5	129.7
97.5°	119.1	123.1	124.8	125.6	121.6	123.1	127.2	128.1	125.6	123.1	122.4
100°	110.2	112.6	115.0	116.7	112.6	115.0	120.0	120.7	119.1	117.5	116.7
102.5°	107.0	108.6	112.6	114.3	109.4	110.2	114.3	115.9	114.3	112.6	112.6
105°	109.4	110.2	116.7	119.1	111.9	109.4	111.0	112.6	110.2	109.4	109.4
107.5°	115.0	115.9	124.8	127.2	119.1	112.6	111.0	111.0	109.4	107.7	107.7



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CATALOG NUMBER: MPB-AF-D-U-ASYM-7030-600

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	122.4	124.8	134.5	139.4	129.7	116.7	111.0	110.2	108.6	106.2	107.0
112.5°	132.9	134.5	145.9	152.3	141.1	120.7	111.0	108.6	106.2	104.6	105.3
115°	148.3	147.5	161.3	166.9	151.5	124.8	111.9	106.2	103.7	102.2	102.2
117.5°	166.1	164.5	178.3	178.3	159.6	128.1	111.9	103.7	100.5	98.9	98.9
120°	178.3	175.0	190.4	184.0	160.5	128.1	111.0	100.5	96.5	94.8	94.0
122.5°	175.8	172.6	190.4	175.8	148.3	118.3	103.7	94.8	89.9	88.3	87.5
125°	153.9	150.8	162.0	148.3	124.8	98.9	87.5	80.2	77.8	76.2	76.2
127.5°	124.8	122.4	124.8	115.9	98.0	79.4	70.5	65.7	64.0	63.3	63.3
130°	91.6	92.4	94.0	87.5	73.8	61.6	54.3	51.0	50.3	49.4	49.4
132.5°	66.4	66.4	68.1	64.0	53.5	46.2	42.2	39.7	39.7	38.9	38.9
135°	44.6	45.3	47.0	44.6	38.1	33.2	30.8	29.9	29.9	29.2	29.2
137.5°	31.6	33.2	34.1	31.6	28.4	25.1	22.7	21.9	22.7	21.9	21.9
140°	24.4	25.1	25.9	24.4	21.1	18.7	17.8	17.0	17.0	17.0	17.0
142.5°	18.7	18.7	19.4	17.8	15.4	13.8	13.0	13.0	13.0	13.0	13.0
145°	12.1	13.0	13.0	12.1	10.5	9.7	9.0	8.1	8.1	8.1	8.1
147.5°	6.4	7.3	8.1	7.3	6.4	5.7	4.9	4.9	4.0	4.0	4.0
150°	3.3	3.3	4.0	4.0	3.3	2.4	1.6	1.6	1.6	0.8	0.8
152.5°	1.6	1.6	2.4	2.4	1.6	0.8	0.0	0.0	0.0	0.0	0.0
155°	1.6	1.6	2.4	2.4	1.6	0.8	0.0	0.0	0.0	0.0	0.0
157.5°	1.6	1.6	1.6	2.4	1.6	0.8	0.0	0.0	0.0	0.0	0.0
160°	1.6	1.6	1.6	2.4	1.6	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)