

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: P212576

Luminaire Tested: **MPB-AF-D-U-ASYM-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P212576
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-8030-800
Description: BRECKENRIDGE LED POST-TOP LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND ASYMMETRIC OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2940 lumens
Efficiency: N/A
Efficacy: 66.8 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

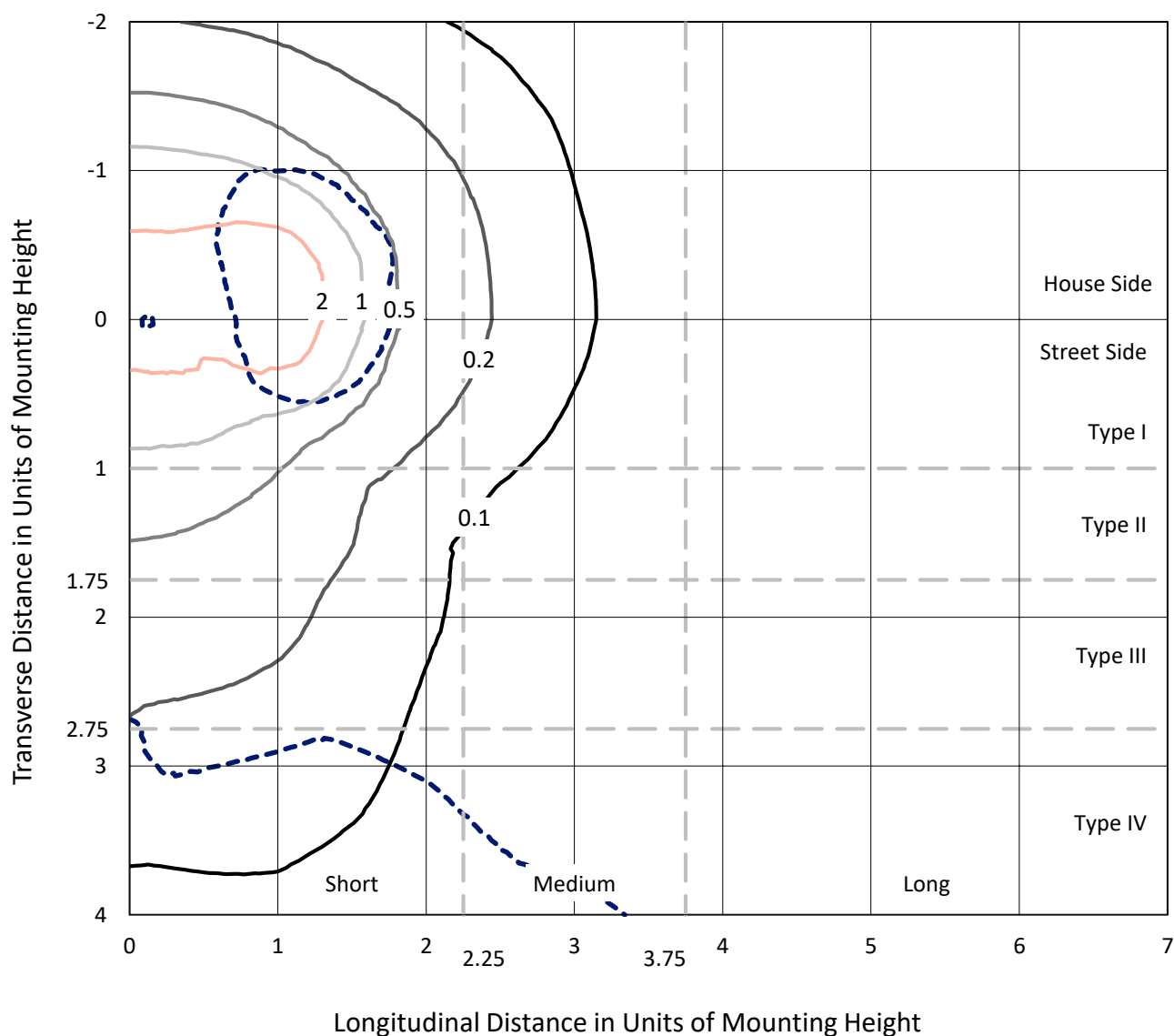


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

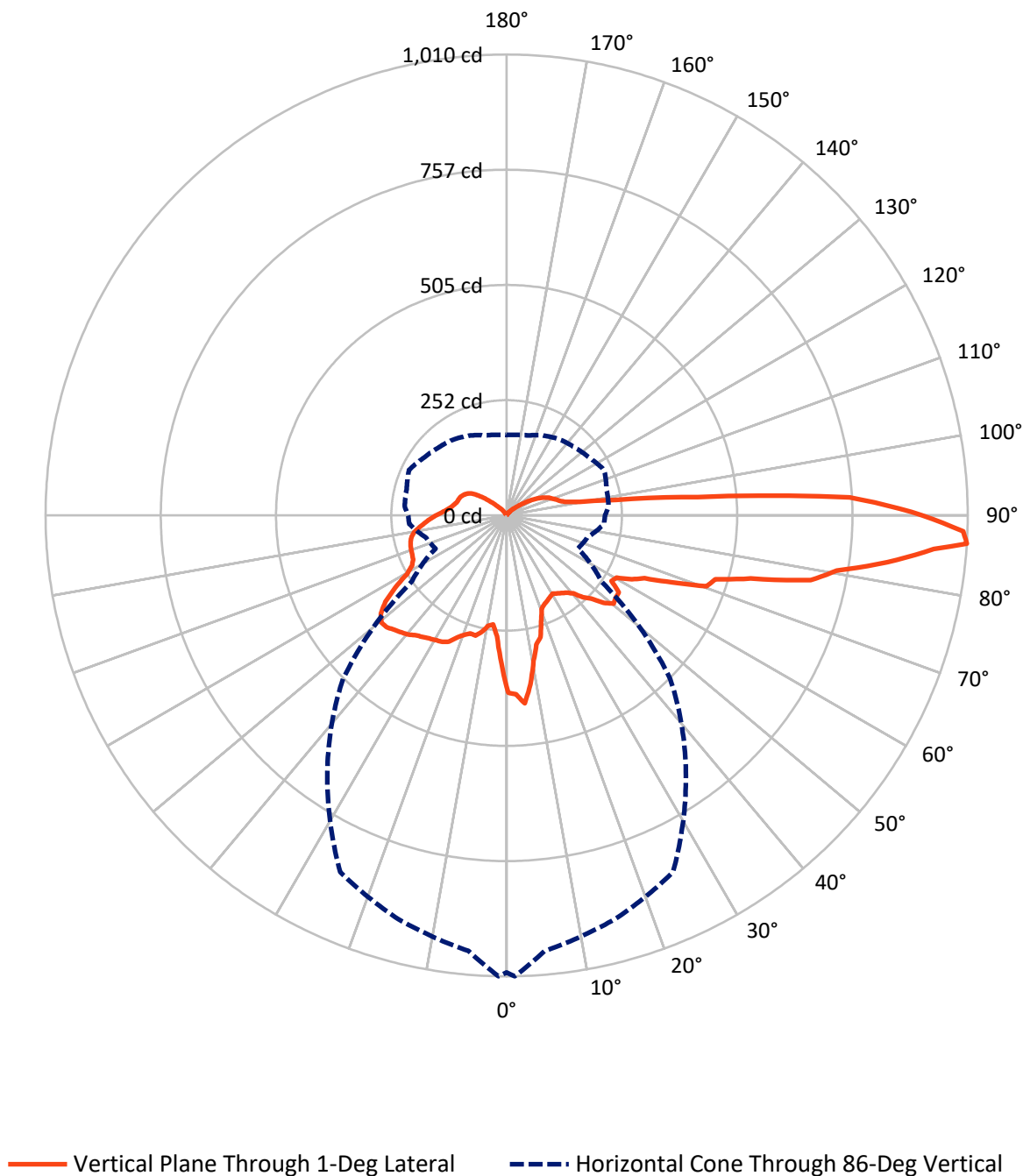


Based on 10 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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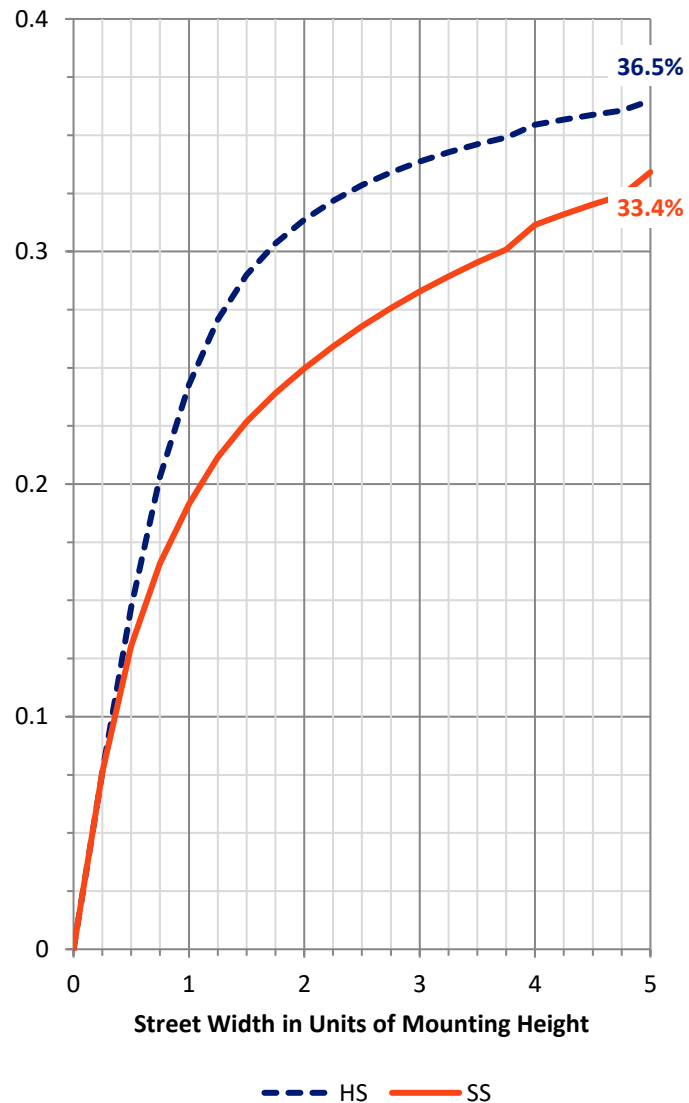
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1136.8	278.6	1415.5
	% Fixture	38.7	9.5	48.1
Street Side	Lumens	1195.7	328.8	1524.6
	% Fixture	40.7	11.2	51.9
Total	Lumens	2332.5	607.5	2940.0
	% Fixture	79.3	20.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.1	1.3
10°-20°	90.5	3.1
20°-30°	140.4	4.8
30°-40°	224.8	7.6
40°-50°	371.4	12.6
50°-60°	401.1	13.6
60°-70°	306.7	10.4
70°-80°	362.1	12.3
80°-90°	398.4	13.6
90°-100°	241.9	8.2
100°-110°	123.1	4.2
110°-120°	119.8	4.1
120°-130°	88.0	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°	2332.5	79.3
0°-180°	2940.0	100.0

Coefficient of Utilization



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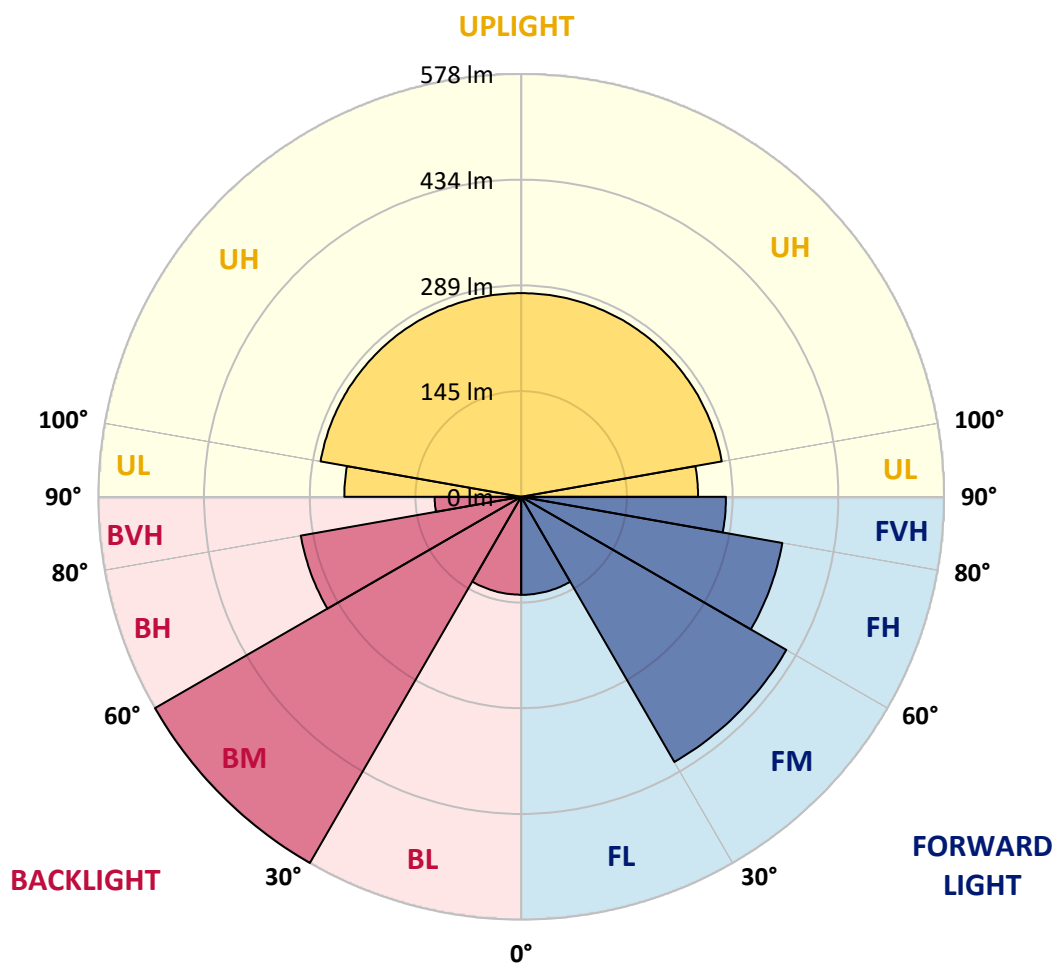
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	134.1	4.6			
FM	(30°-60°)	418.9	14.2			
FH	(60°-80°)	362.7	12.3			G0/660
FVH	(80°-90°)	280.1	9.5			G3/500
BL	(0°-30°)	133.9	4.6	B1/500		
BM	(30°-60°)	578.4	19.7	B1/1000		
BH	(60°-80°)	306.1	10.4	B1/500		G1/500
BVH	(80°-90°)	118.4	4.0			G2/225
UL	(90°-100°)	241.9	8.2		U3/500	
UH	(100°-180°)	278.6	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°	388.3	388.3	388.3	388.3	388.3	388.3	388.3	388.3	388.3	388.3	388.3
2.5°	393.3	392.5	390.8	393.3	395.9	415.2	427.7	426.1	411.0	404.2	399.2
5°	419.3	413.5	409.3	416.0	416.0	451.2	468.8	442.8	437.8	450.4	437.0
7.5°	375.7	374.1	372.4	379.9	394.2	456.2	466.3	525.9	543.5	522.5	520.0
10°	321.2	323.7	321.2	361.5	417.7	460.4	404.2	419.3	447.0	456.2	411.8
12.5°	286.8	290.2	293.5	319.5	334.6	321.2	347.2	357.3	374.9	372.4	353.9
15°	273.4	276.8	275.1	263.3	280.1	304.4	325.4	345.5	365.7	346.4	346.4
17.5°	252.4	244.9	243.2	231.5	260.8	294.4	333.0	360.6	355.6	385.0	411.0
20°	220.6	218.1	218.1	223.9	249.1	290.2	359.8	421.9	463.8	431.1	391.7
22.5°	212.2	211.3	214.7	224.8	249.1	270.1	301.1	327.9	332.1	328.8	327.9
25°	207.2	207.2	210.5	222.3	231.5	247.4	285.2	308.6	310.3	327.1	327.1
27.5°	204.6	202.1	202.1	213.9	226.4	250.8	270.9	292.7	303.6	337.2	392.5
30°	199.6	198.8	199.6	211.3	230.6	246.6	272.6	291.0	307.0	340.5	356.4
32.5°	202.1	203.8	201.3	209.7	224.8	246.6	276.8	306.1	317.9	376.6	404.2
35°	208.8	208.8	205.5	209.7	221.4	243.2	280.1	324.6	346.4	422.7	463.8
37.5°	212.2	214.7	213.9	220.6	233.2	250.8	281.8	340.5	385.0	455.4	531.7
40°	224.8	224.8	225.6	237.3	246.6	258.3	282.6	348.9	435.3	494.8	617.3
42.5°	242.4	244.9	241.5	240.7	248.3	264.2	282.6	345.5	497.3	554.4	717.1
45°	256.6	260.0	257.5	263.3	262.5	275.1	282.6	338.0	515.8	619.8	805.1
47.5°	289.3	286.0	289.3	291.0	283.5	288.5	292.7	336.3	511.6	697.0	853.8
50°	302.8	303.6	301.1	296.1	294.4	289.3	293.5	324.6	497.3	748.9	884.8
52.5°	301.9	299.4	302.8	295.2	289.3	287.7	281.0	304.4	469.7	723.8	810.2
55°	301.1	297.7	291.9	281.8	271.7	270.1	266.7	282.6	405.1	606.4	711.2
57.5°	270.9	270.9	267.5	267.5	259.2	250.8	250.8	245.7	338.8	491.5	611.4
60°	275.9	276.8	273.4	278.4	272.6	249.1	252.4	219.7	283.5	371.5	447.0
62.5°	311.2	307.8	300.3	300.3	292.7	254.1	236.5	212.2	255.8	317.0	373.2
65°	334.6	332.1	333.0	338.8	330.4	282.6	263.3	214.7	245.7	303.6	353.1
67.5°	389.2	390.8	393.3	409.3	379.9	320.4	293.5	220.6	241.5	301.1	348.1
70°	483.9	464.6	450.4	415.2	403.4	331.3	301.1	226.4	238.2	301.1	344.7
72.5°	472.2	478.1	470.5	483.9	480.6	386.6	309.5	235.7	235.7	296.1	343.9
75°	559.4	551.9	568.6	621.5	564.4	444.5	359.8	245.7	229.0	286.8	337.2
77.5°	683.5	681.0	661.7	646.6	613.1	470.5	417.7	273.4	213.0	267.5	317.9
80°	741.4	733.0	746.4	716.2	700.3	541.8	411.8	261.7	194.6	243.2	288.5
82.5°	844.6	840.4	848.8	929.3	798.4	620.6	452.9	267.5	182.0	217.2	255.8
85°	934.3	938.5	966.2	936.0	867.2	677.7	478.9	279.3	175.3	192.9	225.6
86°	1001.4	1009.8	957.8	915.8	862.2	684.4	506.6	254.1	171.9	183.7	213.9
87.5°	988.0	1000.6	982.1	964.5	899.9	706.2	517.5	226.4	168.6	170.3	197.1
90°	915.0	887.3	917.5	945.2	828.6	637.4	465.5	234.0	153.5	152.6	173.6
92.5°	755.7	752.3	733.9	728.0	656.7	514.1	390.8	195.4	140.9	136.7	154.3
95°	447.9	421.0	406.8	478.9	435.3	395.9	287.7	182.0	126.6	122.4	135.9
97.5°	250.8	242.4	233.2	265.9	276.8	248.3	186.2	133.4	112.4	112.4	122.4
100°	169.4	162.7	160.2	161.0	174.4	161.0	134.2	109.0	101.5	105.7	113.2
102.5°	131.7	130.8	128.3	130.0	132.5	124.1	112.4	103.2	99.8	105.7	109.9
105°	119.9	119.9	117.4	116.6	119.1	111.5	105.7	99.8	101.5	109.9	112.4
107.5°	112.4	113.2	109.9	109.9	109.9	105.7	100.6	98.1	104.8	115.7	118.3



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CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	105.7	105.7	103.2	103.2	104.0	99.8	96.4	96.4	108.2	122.4	125.8
112.5°	99.0	99.8	97.3	97.3	97.3	93.9	92.3	95.6	112.4	130.8	135.9
115°	90.6	90.6	88.9	90.6	90.6	88.9	88.9	95.6	121.6	143.4	151.0
117.5°	80.5	80.5	79.7	82.2	83.0	83.9	86.4	96.4	131.7	157.7	169.4
120°	69.6	69.6	69.6	73.0	74.6	77.2	82.2	94.8	137.5	168.6	181.2
122.5°	57.9	57.9	57.9	60.4	62.9	67.9	74.6	88.1	131.7	162.7	177.0
125°	46.1	46.1	47.0	48.6	52.0	57.0	63.7	76.3	113.2	140.1	155.2
127.5°	36.9	36.9	36.9	38.6	41.1	46.1	52.0	62.9	88.9	111.5	125.8
130°	29.4	29.4	29.4	30.2	31.9	35.2	41.1	50.3	67.9	83.9	94.8
132.5°	23.5	22.6	23.5	23.5	25.2	27.7	31.0	36.9	47.8	59.5	67.9
135°	19.3	19.3	19.3	19.3	20.1	21.0	24.3	26.8	32.7	40.3	44.5
137.5°	15.1	15.1	15.1	15.1	15.9	15.9	17.6	20.1	22.6	27.7	31.9
140°	11.7	11.7	11.7	11.7	11.7	12.6	13.4	14.3	16.8	21.0	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°	388.3	388.3	388.3	388.3	388.3	388.3	388.3	388.3	388.3	388.3	388.3
2.5°	397.5	397.5	400.1	400.1	397.5	387.5	372.4	357.3	339.7	327.1	323.7
5°	427.7	414.3	400.1	376.6	356.4	352.2	322.1	294.4	278.4	266.7	265.0
7.5°	520.0	503.2	445.3	429.4	402.6	369.0	284.3	256.6	245.7	241.5	240.7
10°	390.8	369.0	334.6	322.1	317.0	298.6	270.9	254.1	248.3	246.6	244.9
12.5°	342.2	331.3	316.2	305.3	297.7	282.6	266.7	256.6	255.0	260.0	260.8
15°	341.3	345.5	338.0	312.0	291.0	278.4	269.2	267.5	268.4	272.6	271.7
17.5°	421.9	405.1	377.4	338.0	307.8	308.6	307.0	281.8	278.4	271.7	270.1
20°	376.6	359.8	356.4	333.0	324.6	297.7	303.6	292.7	286.8	279.3	276.8
22.5°	326.3	318.7	304.4	298.6	296.1	304.4	304.4	295.2	291.9	288.5	287.7
25°	322.9	323.7	340.5	339.7	315.3	319.5	313.7	303.6	303.6	305.3	303.6
27.5°	392.5	371.5	348.1	347.2	337.2	348.1	329.6	315.3	314.5	312.0	310.3
30°	359.0	359.0	364.8	363.2	355.6	349.7	339.7	326.3	321.2	315.3	313.7
32.5°	407.6	411.0	424.4	409.3	390.8	373.2	355.6	336.3	326.3	318.7	317.9
35°	450.4	457.1	494.8	463.8	439.5	401.7	374.9	346.4	331.3	324.6	322.9
37.5°	505.7	511.6	574.5	525.0	486.4	432.8	395.9	358.1	338.8	329.6	328.8
40°	579.5	580.4	648.3	603.9	558.6	467.2	408.4	367.3	348.9	338.8	338.0
42.5°	677.7	672.6	756.5	713.7	617.3	492.3	414.3	369.9	352.2	345.5	344.7
45°	769.1	762.4	831.1	813.5	643.3	508.2	421.9	378.2	358.1	352.2	350.6
47.5°	830.3	840.4	889.8	885.7	659.2	515.0	434.4	387.5	365.7	359.8	359.0
50°	894.0	905.8	955.3	881.5	669.3	520.0	443.7	394.2	369.0	362.3	360.6
52.5°	908.3	911.7	945.2	835.3	647.5	504.9	436.1	385.8	359.0	351.4	348.9
55°	812.7	787.5	897.4	723.0	590.4	460.4	408.4	361.5	334.6	328.8	325.4
57.5°	673.5	634.9	722.1	598.0	504.1	410.1	363.2	325.4	300.3	293.5	290.2
60°	499.0	465.5	525.9	457.9	409.3	337.2	299.4	277.6	257.5	253.3	252.4
62.5°	411.0	395.0	425.2	390.8	352.2	301.1	272.6	254.1	236.5	234.8	234.8
65°	379.9	376.6	394.2	369.9	335.5	290.2	264.2	246.6	229.8	227.3	226.4
67.5°	366.5	367.3	375.7	364.0	333.8	288.5	262.5	244.1	227.3	224.8	223.9
70°	362.3	362.3	362.3	364.0	336.3	288.5	262.5	244.9	226.4	223.1	222.3
72.5°	359.8	359.8	353.9	360.6	333.8	286.8	262.5	244.1	225.6	221.4	220.6
75°	349.7	350.6	343.0	353.9	325.4	283.5	261.7	242.4	223.1	218.9	218.1
77.5°	327.9	329.6	324.6	338.8	311.2	276.8	257.5	239.0	219.7	214.7	213.9
80°	294.4	301.9	299.4	312.8	288.5	263.3	246.6	229.8	211.3	207.2	206.3
82.5°	258.3	267.5	269.2	279.3	260.0	242.4	228.1	214.7	197.9	194.6	193.7
85°	227.3	235.7	239.0	247.4	231.5	219.7	209.7	198.8	185.4	182.0	181.2
86°	215.5	223.9	226.4	235.7	220.6	210.5	203.0	192.9	181.2	177.0	176.1
87.5°	198.8	206.3	210.5	218.1	204.6	197.1	192.1	184.5	173.6	170.3	169.4
90°	175.3	182.8	185.4	189.5	178.6	174.4	172.8	167.7	160.2	156.8	156.8
92.5°	155.2	161.9	164.4	166.9	157.7	154.3	155.2	152.6	147.6	145.1	144.3
95°	136.7	142.6	144.3	146.8	139.2	138.4	142.6	141.7	137.5	135.0	134.2
97.5°	123.3	127.5	129.2	130.0	125.8	127.5	131.7	132.5	130.0	127.5	126.6
100°	114.1	116.6	119.1	120.8	116.6	119.1	124.1	125.0	123.3	121.6	120.8
102.5°	110.7	112.4	116.6	118.3	113.2	114.1	118.3	119.9	118.3	116.6	116.6
105°	113.2	114.1	120.8	123.3	115.7	113.2	114.9	116.6	114.1	113.2	113.2
107.5°	119.1	119.9	129.2	131.7	123.3	116.6	114.9	114.9	113.2	111.5	111.5



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CATALOG NUMBER: MPB-AF-D-U-ASYM-8030-800

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	126.6	129.2	139.2	144.3	134.2	120.8	114.9	114.1	112.4	109.9	110.7
112.5°	137.5	139.2	151.0	157.7	145.9	125.0	114.9	112.4	109.9	108.2	109.0
115°	153.5	152.6	166.9	172.8	156.8	129.2	115.7	109.9	107.4	105.7	105.7
117.5°	171.9	170.3	184.5	184.5	165.2	132.5	115.7	107.4	104.0	102.3	102.3
120°	184.5	181.2	197.1	190.4	166.1	132.5	114.9	104.0	99.8	98.1	97.3
122.5°	182.0	178.6	197.1	182.0	153.5	122.4	107.4	98.1	93.1	91.4	90.6
125°	159.4	156.0	167.7	153.5	129.2	102.3	90.6	83.0	80.5	78.8	78.8
127.5°	129.2	126.6	129.2	119.9	101.5	82.2	73.0	67.9	66.3	65.4	65.4
130°	94.8	95.6	97.3	90.6	76.3	63.7	56.2	52.8	52.0	51.2	51.2
132.5°	68.8	68.8	70.4	66.3	55.4	47.8	43.6	41.1	41.1	40.3	40.3
135°	46.1	47.0	48.6	46.1	39.4	34.4	31.9	31.0	31.0	30.2	30.2
137.5°	32.7	34.4	35.2	32.7	29.4	26.0	23.5	22.6	23.5	22.6	22.6
140°	25.2	26.0	26.8	25.2	21.8	19.3	18.5	17.6	17.6	17.6	17.6
142.5°	19.3	19.3	20.1	18.5	15.9	14.3	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)