

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: P314636

Luminaire Tested: **MPB-A2-D-U-ASYM-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314636
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1906-378-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: MPB-A2-D-U-ASYM-7030
Description: BRECKENRIDGE POST TOP LUMINAIRE
(1) 70 CRI, 3000K LIGHT ENGINE. ASYMMETRIC DISTRIBUTION.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1878 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.58')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U3 - G3

Input Watts (W): 17.7
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

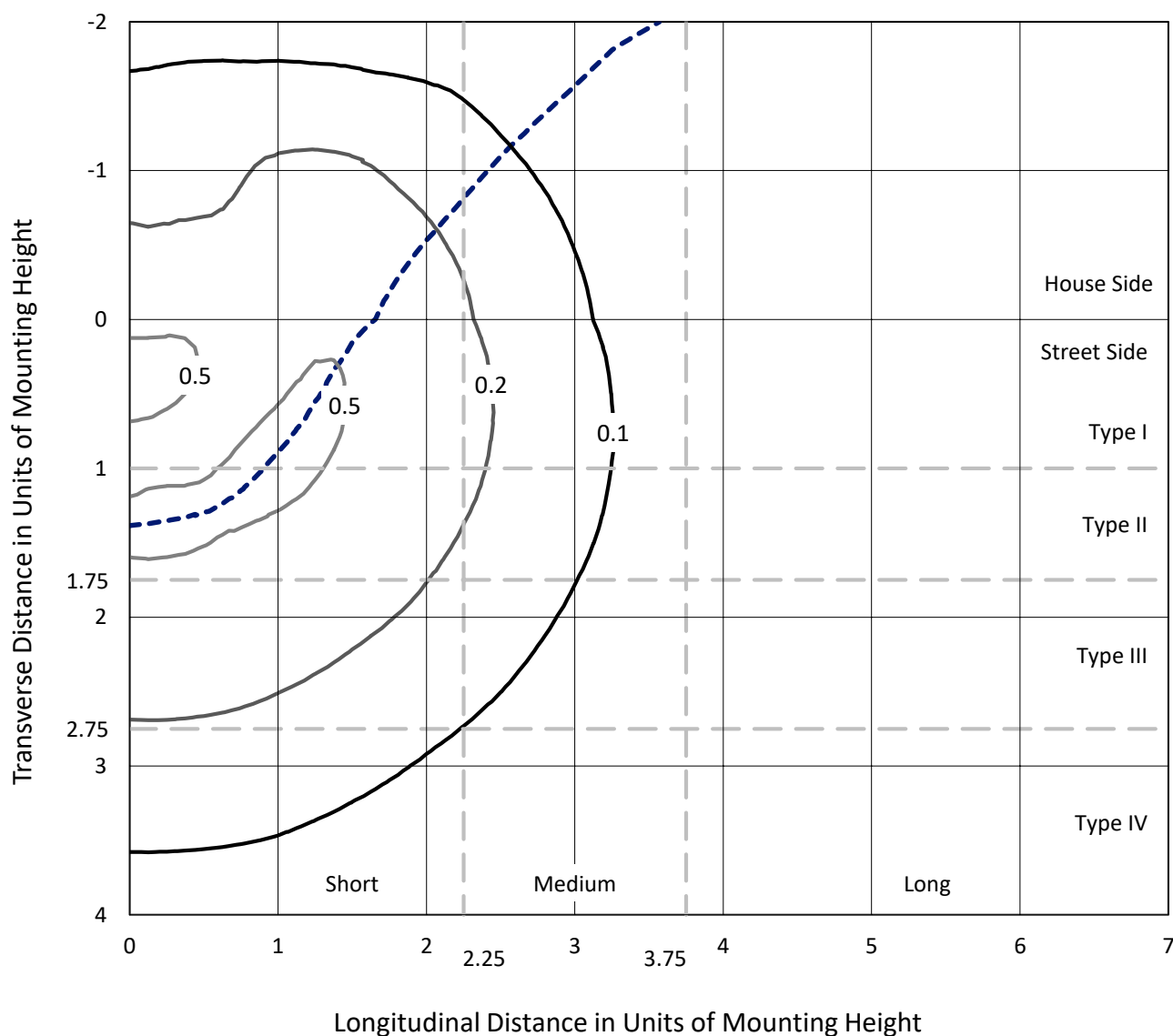


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

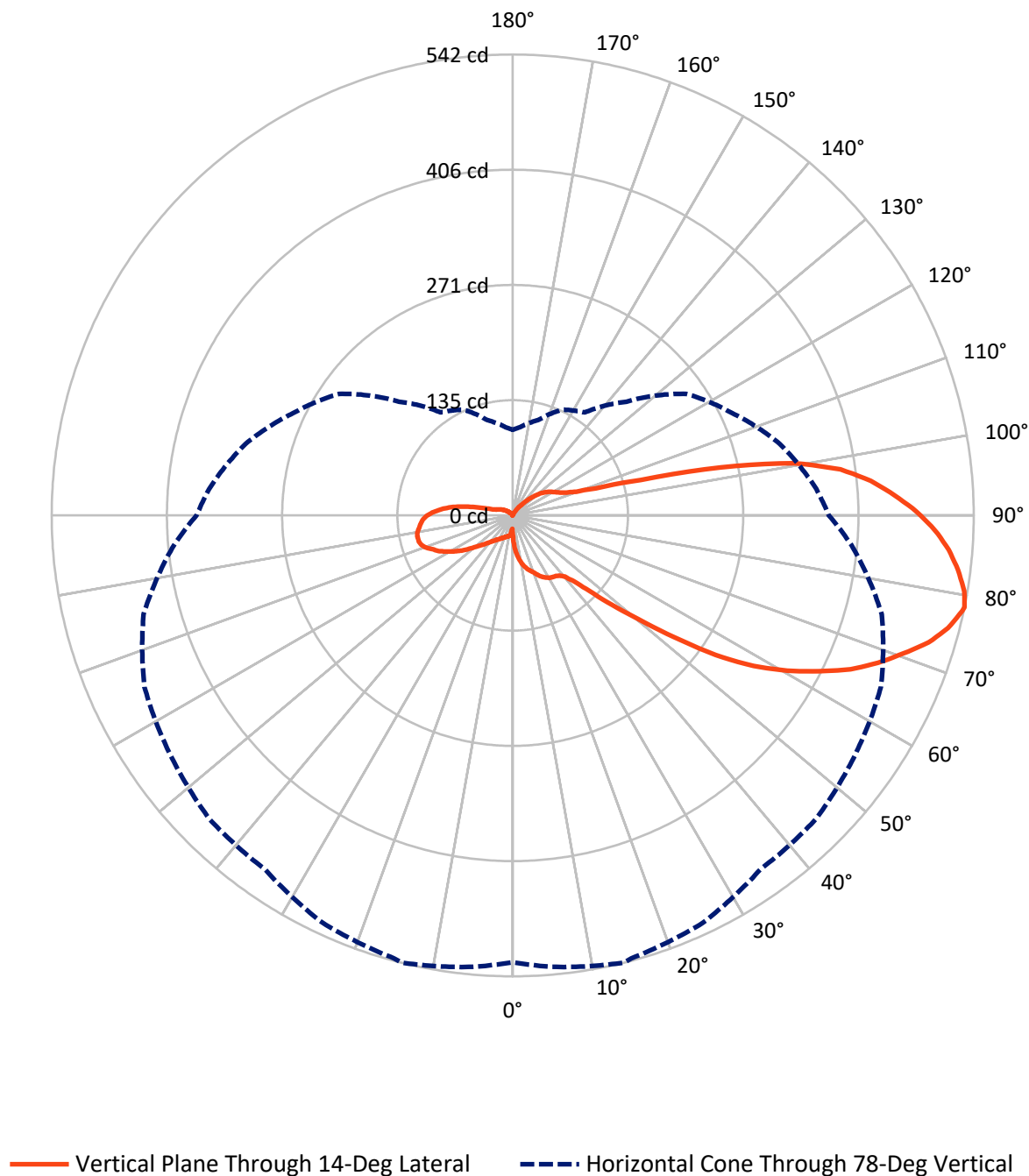


Based on 10 foot mounting height. Maximum calculated value = 0.6 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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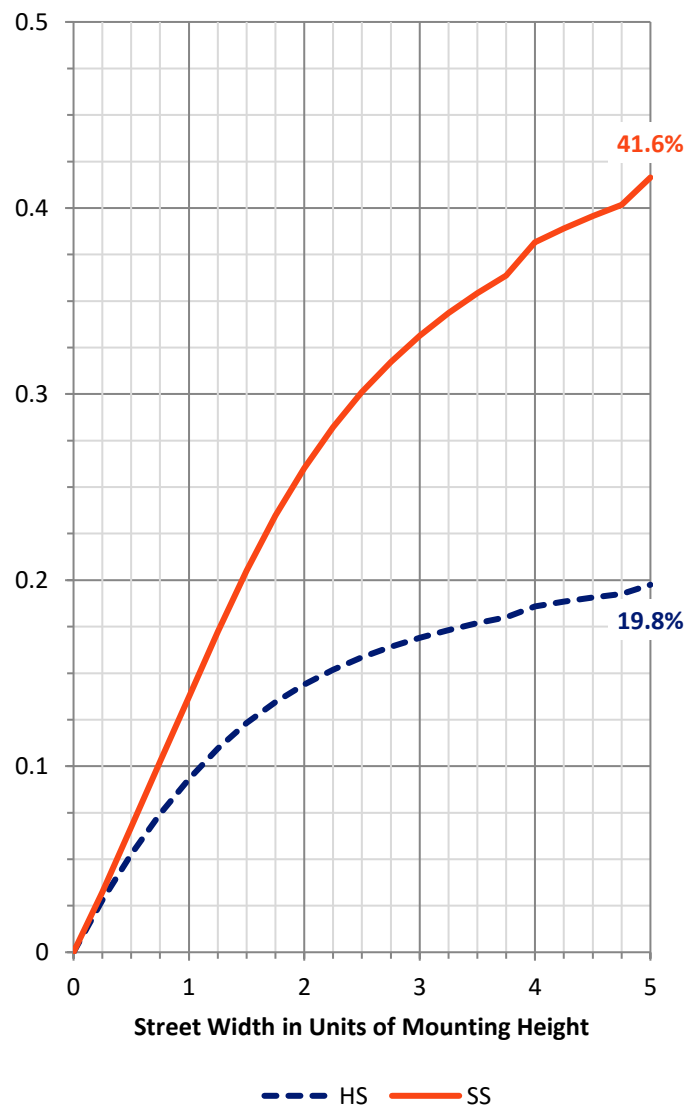
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	421.3	154.6	576.0
	% Fixture	22.4	8.2	30.7
Street Side	Lumens	938.8	363.2	1302.0
	% Fixture	50.0	19.3	69.3
Total	Lumens	1360.2	517.8	1878.0
	% Fixture	72.4	27.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.3	0.2
10°-20°	13.3	0.7
20°-30°	26.3	1.4
30°-40°	40.1	2.1
40°-50°	76.0	4.0
50°-60°	183.3	9.8
60°-70°	290.7	15.5
70°-80°	363.4	19.4
80°-90°	363.8	19.4
90°-100°	298.4	15.9
100°-110°	127.2	6.8
110°-120°	43.9	2.3
120°-130°	29.3	1.6
130°-140°	14.6	0.8
140°-150°	4.2	0.2
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1360.2	72.4
0°-180°	1878.0	100.0

Coefficient of Utilization



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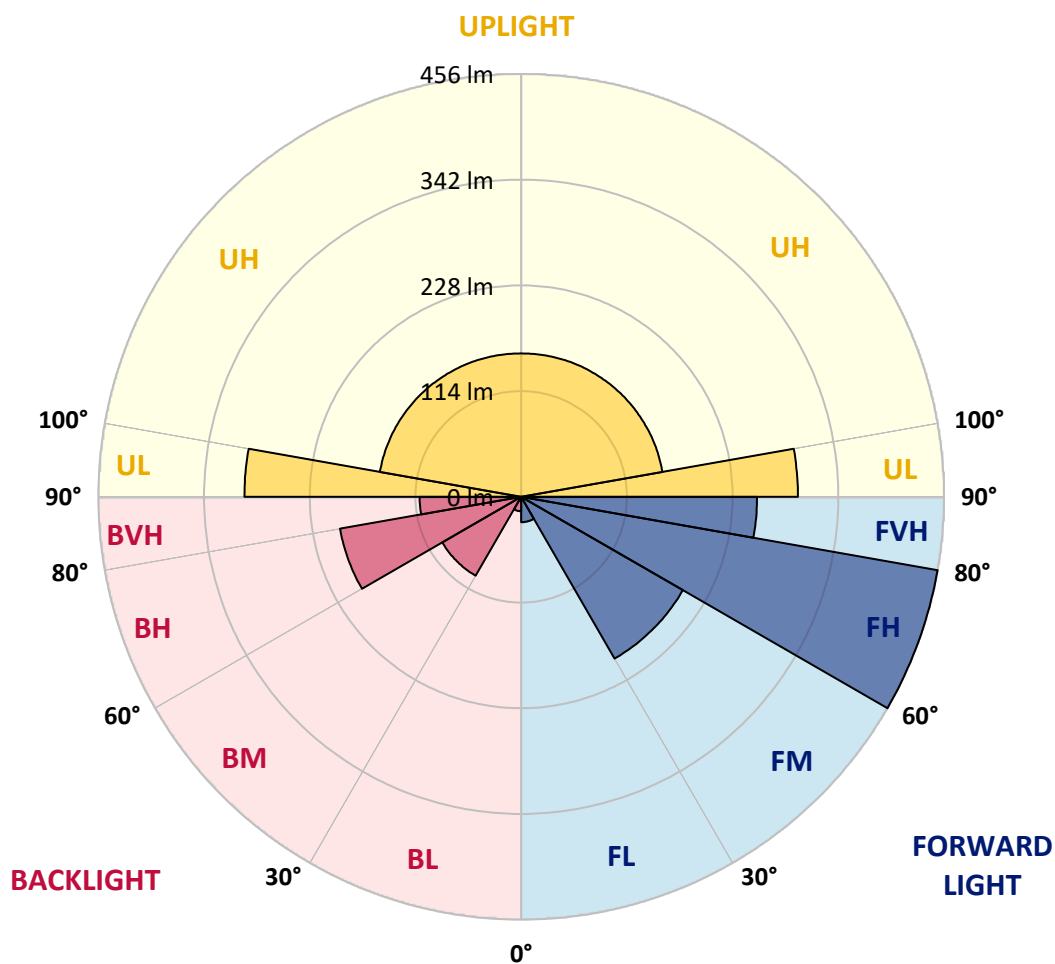
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	27.4	1.5			
FM	(30°-60°)	201.3	10.7			
FH	(60°-80°)	455.8	24.3			G0/660
FVH	(80°-90°)	254.3	13.5			G3/500
BL	(0°-30°)	15.5	0.8	B0/110		
BM	(30°-60°)	98.1	5.2	B0/220		
BH	(60°-80°)	198.2	10.6	B1/500		G1/500
BVH	(80°-90°)	109.5	5.8			G2/225
UL	(90°-100°)	298.4	15.9		U3/500	
UH	(100°-180°)	154.6	8.2		U3/500	

BUG Rating: B1-U3-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
0°	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2
2.5°	36.5	36.2	35.9	35.6	35.3	33.5	32.9	31.7	30.2	28.4	26.9
5°	45.3	45.0	44.4	44.4	43.5	42.3	41.1	39.5	37.1	34.7	32.6
7.5°	52.2	51.6	51.3	51.0	50.4	48.9	47.4	45.6	43.5	41.1	38.6
10°	57.4	57.4	57.1	57.1	56.1	54.6	52.5	50.7	48.3	45.3	42.6
12.5°	62.2	61.9	61.6	61.6	60.7	58.9	56.8	54.6	52.2	49.2	46.5
15°	65.5	65.5	65.5	65.2	64.0	62.5	60.4	58.6	55.8	52.5	49.8
17.5°	68.8	68.8	68.5	68.5	67.0	65.5	63.4	61.6	58.9	55.5	52.5
20°	72.5	72.5	71.8	71.5	70.3	69.1	66.7	64.6	61.9	58.9	55.5
22.5°	77.0	76.7	76.1	76.1	74.6	72.5	70.3	68.2	65.5	62.2	58.9
25°	80.6	80.6	80.0	79.7	78.5	76.7	74.3	71.2	68.5	65.2	62.2
27.5°	83.9	83.6	82.7	82.4	81.2	79.4	77.0	74.3	70.9	67.6	64.3
30°	86.6	86.0	85.1	85.1	83.6	81.5	79.1	76.4	72.5	69.4	66.1
32.5°	87.8	87.5	86.3	86.0	84.5	82.4	80.0	77.0	73.7	70.3	67.3
35°	89.1	88.8	87.5	87.2	85.4	83.0	80.3	77.6	74.0	71.2	67.9
37.5°	91.2	91.2	89.7	89.4	87.5	85.7	83.0	80.3	77.3	73.7	70.0
40°	95.7	95.4	94.5	93.9	92.4	91.8	89.4	86.6	83.6	80.9	75.5
42.5°	105.7	106.0	106.0	105.4	103.8	104.8	103.2	101.1	97.5	93.9	86.9
45°	123.8	127.1	126.2	125.6	123.8	126.8	125.9	125.0	119.8	114.4	104.8
47.5°	151.5	156.1	157.0	154.6	152.7	155.2	158.8	157.0	150.0	143.4	131.3
50°	187.8	192.6	191.4	190.8	187.2	194.1	198.9	198.0	189.9	181.7	163.0
52.5°	233.0	235.5	237.9	235.2	231.8	240.9	251.5	250.3	242.1	229.7	206.2
55°	284.7	287.1	289.5	286.2	281.3	291.9	305.8	303.1	294.6	274.4	247.2
57.5°	330.0	334.5	333.6	332.4	322.4	333.0	344.1	341.4	331.2	308.2	277.1
60°	364.1	366.8	370.4	369.2	363.8	365.9	377.3	370.7	358.3	333.0	299.5
62.5°	394.9	398.5	403.3	402.1	397.9	394.6	403.6	394.9	382.2	357.1	320.0
65°	425.3	429.6	436.2	434.4	429.0	421.4	430.2	421.1	406.9	379.8	338.7
67.5°	450.1	454.6	462.5	461.6	457.9	449.2	451.6	440.4	425.6	397.3	354.1
70°	475.5	480.6	486.3	487.5	477.6	469.7	471.8	459.5	446.5	418.4	371.9
72.5°	497.5	499.9	510.8	513.2	499.9	486.3	488.7	474.6	460.4	429.3	384.3
75°	517.1	519.8	528.3	528.6	513.5	500.8	501.4	489.6	477.0	445.9	395.8
77.5°	525.6	530.7	539.8	537.0	526.8	507.5	509.6	497.8	482.7	448.6	397.3
78°	525.0	532.5	541.6	538.8	528.3	507.5	504.1	490.9	477.3	448.9	399.4
80°	522.9	532.2	537.9	535.2	525.9	502.0	497.8	486.6	473.9	445.3	393.3
82.5°	510.8	521.0	527.1	525.0	518.0	493.0	490.9	486.3	474.9	443.8	389.1
85°	500.2	510.5	513.8	512.3	504.7	481.2	480.0	471.8	456.4	427.5	375.8
87.5°	486.0	494.8	496.3	496.6	487.8	464.0	462.2	455.5	444.4	417.8	366.8
90°	464.0	471.5	474.9	474.9	467.6	445.6	445.9	443.8	433.5	405.1	354.1
92.5°	438.9	446.2	449.5	449.2	442.9	423.5	423.5	419.6	406.3	381.6	333.9
95°	412.4	417.8	422.6	422.3	413.9	395.8	395.2	394.9	382.2	358.0	314.3
97.5°	379.2	382.2	388.8	387.9	380.1	366.5	367.1	368.3	356.8	334.2	291.9
100°	328.1	327.8	336.3	334.5	329.6	320.9	324.8	326.6	317.0	297.3	261.7
102.5°	244.2	243.9	251.2	249.4	249.7	246.3	252.7	255.7	249.7	234.6	205.6
105°	153.1	151.8	156.1	154.9	153.4	149.1	150.0	148.8	145.5	136.4	119.8
107.5°	101.4	100.5	102.6	103.2	100.5	97.5	96.6	95.4	91.8	86.3	77.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	78.5	78.5	79.7	79.1	77.9	76.4	75.2	74.6	71.8	68.2	61.3
112.5°	67.3	67.3	68.5	68.2	67.3	65.8	65.5	64.9	63.1	60.1	54.6
115°	61.3	61.3	62.2	62.2	61.3	59.8	59.5	59.2	58.0	55.2	50.4
117.5°	57.4	57.1	58.0	58.0	56.8	55.8	55.8	55.5	54.6	51.9	47.7
120°	53.7	53.7	54.3	54.3	53.4	52.8	53.1	52.8	51.9	49.2	45.0
122.5°	50.4	50.4	51.0	50.7	50.1	50.1	50.1	50.1	49.2	46.8	42.6
125°	46.2	46.2	46.8	46.8	46.2	46.5	46.8	46.8	46.2	43.8	39.8
127.5°	41.7	41.7	42.3	42.3	42.0	42.6	43.5	43.2	42.6	40.5	36.8
130°	36.5	36.5	37.1	37.4	37.4	38.3	38.9	38.9	38.3	36.5	32.9
132.5°	31.1	30.8	31.4	31.7	32.3	33.2	33.5	33.5	33.2	31.4	28.4
135°	25.1	25.1	26.0	26.3	26.9	27.5	27.8	28.1	27.8	26.3	23.5
137.5°	19.3	19.3	20.2	20.5	21.1	21.4	21.4	22.0	21.4	20.5	18.4
140°	15.1	15.1	15.7	16.0	16.6	16.6	16.3	16.3	16.0	15.4	13.6
142.5°	12.1	11.8	12.7	12.7	13.0	13.3	13.0	13.0	12.7	12.1	10.9
145°	9.1	9.1	9.4	9.7	9.7	10.0	10.0	10.0	9.7	9.4	8.2
147.5°	6.0	6.0	6.6	6.6	6.9	7.2	7.2	7.2	6.9	6.6	5.7
150°	3.0	3.0	3.3	3.6	3.9	3.9	4.2	4.5	4.2	3.9	3.3
152.5°	0.0	0.0	0.3	0.3	0.6	0.9	1.2	1.2	1.2	1.2	1.2
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3
157.5°	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.3	0.3	0.3
160°	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.3	0.3	0.3	0.3
162.5°	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3
165°	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3
167.5°	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3
170°	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3
172.5°	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3
175°	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3
177.5°	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3
180°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2
2.5°	26.0	24.8	23.2	21.7	20.2	18.7	17.5	16.3	15.7	15.1	15.1
5°	31.4	30.2	28.1	26.0	23.8	22.3	21.1	20.2	19.6	19.6	19.9
7.5°	37.4	36.2	33.2	30.2	28.1	26.3	24.8	23.8	22.9	22.3	22.3
10°	41.4	39.5	36.8	34.1	31.7	29.3	27.5	26.0	24.5	23.5	23.2
12.5°	44.7	43.2	39.8	36.8	34.1	31.1	29.0	26.9	25.1	23.8	23.5
15°	47.7	45.9	42.6	39.2	35.9	32.6	29.9	27.5	25.7	24.2	24.2
17.5°	50.7	48.9	45.3	41.7	37.7	34.1	30.8	28.4	26.3	25.1	24.8
20°	53.7	51.6	48.0	44.1	39.5	35.6	32.0	29.3	27.2	26.3	26.0
22.5°	56.8	54.6	50.7	46.5	41.7	37.1	33.2	30.2	28.1	27.5	27.5
25°	59.8	57.4	53.1	48.6	43.5	38.9	34.7	31.4	29.3	28.7	29.0
27.5°	61.9	59.8	55.2	50.4	45.3	40.5	35.9	32.6	30.5	30.2	30.2
30°	64.0	61.6	56.8	51.9	46.8	42.0	37.4	33.8	32.0	31.7	32.0
32.5°	65.2	62.8	57.7	53.1	48.0	42.9	38.6	35.0	33.2	33.5	33.5
35°	65.8	63.4	58.9	54.0	48.9	44.1	39.8	36.5	35.3	35.3	35.3
37.5°	67.6	65.2	60.4	55.5	50.7	45.9	41.7	38.3	37.4	37.7	37.4
40°	72.1	69.7	64.3	58.9	53.7	48.6	44.1	40.8	40.1	40.5	40.1
42.5°	83.0	80.3	72.5	65.2	58.9	52.8	47.4	44.1	43.5	43.5	43.8
45°	99.0	95.4	86.6	75.8	67.6	59.5	52.5	48.3	47.4	47.1	46.8
47.5°	122.6	117.1	106.3	92.4	80.0	69.4	59.2	53.4	51.6	51.0	50.4
50°	153.4	147.3	131.3	113.2	99.3	82.4	68.2	60.1	56.8	54.9	54.3
52.5°	191.4	185.4	163.9	141.6	121.7	99.3	80.6	68.2	63.4	59.8	58.9
55°	229.7	223.4	199.5	169.1	147.0	116.8	94.2	77.9	70.9	65.2	64.6
57.5°	257.2	249.0	223.4	192.3	168.1	132.5	104.4	86.3	77.6	70.9	69.4
60°	275.9	267.5	242.4	208.3	184.4	144.6	112.9	93.6	84.5	77.3	76.1
62.5°	294.3	285.9	257.5	222.5	197.4	152.1	120.1	99.9	90.9	83.3	83.3
65°	311.5	302.5	271.7	237.0	210.1	159.4	126.8	106.3	97.8	90.6	92.1
67.5°	325.7	316.7	284.7	251.2	220.4	167.2	131.6	115.0	102.3	96.9	96.6
70°	342.3	331.8	298.3	263.2	233.0	177.2	136.4	122.0	109.0	103.2	98.4
72.5°	353.5	340.2	309.7	272.6	238.8	182.9	141.6	130.4	113.5	103.8	100.5
75°	365.6	353.5	320.6	280.4	249.0	188.1	144.6	134.0	115.6	104.1	100.2
77.5°	367.7	355.0	323.0	282.0	248.1	190.8	148.5	135.8	115.6	104.4	100.8
78°	371.3	358.0	324.8	284.4	249.0	189.0	147.6	137.1	115.9	104.4	100.5
80°	365.9	354.1	321.5	280.4	246.0	187.2	147.3	137.4	115.3	103.2	99.0
82.5°	359.8	349.3	315.2	275.9	242.1	184.4	145.2	132.5	112.6	99.6	95.7
85°	347.5	339.6	308.5	269.0	234.6	178.1	143.1	131.3	110.2	96.3	92.7
87.5°	338.1	330.9	299.5	264.4	230.3	173.0	138.9	128.0	107.5	93.3	89.7
90°	324.8	316.4	285.0	250.0	218.0	165.7	134.0	121.4	102.9	89.7	86.0
92.5°	307.0	300.1	270.2	236.1	206.2	155.2	125.6	114.4	95.7	84.5	80.6
95°	288.6	282.3	253.6	223.1	194.7	145.8	117.1	106.3	86.6	77.9	73.7
97.5°	267.5	261.7	234.6	204.7	177.5	133.7	105.7	95.7	76.4	68.2	65.5
100°	237.3	231.8	205.6	178.4	153.7	115.3	88.1	79.7	63.4	56.5	54.0
102.5°	182.9	178.4	155.8	134.0	112.9	83.9	62.5	57.4	48.0	42.0	40.1
105°	107.5	104.8	92.7	80.0	67.0	51.6	39.2	38.3	32.9	30.2	28.7
107.5°	69.7	67.6	60.7	53.4	45.6	36.2	29.0	27.5	24.5	23.2	22.6



REPORT NUMBER: P314636

CATALOG NUMBER: MPB-A2-D-U-ASYM-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	57.1	55.2	49.8	43.8	37.7	29.9	24.8	22.9	20.5	19.6	19.3
112.5°	50.7	49.2	44.4	38.9	33.8	26.9	22.3	20.5	18.4	17.5	17.2
115°	47.1	45.3	40.8	35.9	31.4	25.1	20.8	19.0	16.9	15.7	15.7
117.5°	44.1	42.3	38.3	33.8	29.3	23.2	19.3	17.2	15.4	14.2	13.9
120°	42.0	40.1	36.2	31.7	27.5	21.7	18.1	15.7	13.6	12.4	12.1
122.5°	39.5	37.7	33.8	29.6	25.1	19.9	16.3	13.9	12.1	10.9	10.6
125°	37.1	35.3	31.4	27.2	22.6	17.8	14.5	12.1	10.3	9.4	9.1
127.5°	34.4	32.6	28.7	24.5	20.2	15.7	12.7	10.6	8.8	7.8	7.5
130°	30.8	29.0	25.4	21.4	17.5	13.6	10.9	8.8	7.5	6.6	6.3
132.5°	26.6	24.8	21.4	18.1	14.8	11.5	8.8	7.2	6.0	5.4	5.1
135°	22.0	20.5	17.8	14.8	12.1	9.4	7.2	6.0	4.8	4.2	4.2
137.5°	17.2	16.0	13.6	11.5	9.4	7.2	5.4	4.5	3.9	3.3	3.3
140°	13.0	12.1	10.3	8.8	6.9	5.4	4.2	3.6	3.0	2.4	2.4
142.5°	10.0	9.4	7.8	6.6	5.4	3.9	3.0	2.4	2.1	1.8	1.8
145°	7.5	6.9	5.7	4.8	3.9	2.7	2.1	1.5	1.2	1.2	0.9
147.5°	5.1	4.8	3.9	3.0	2.4	1.5	1.2	0.9	0.6	0.6	0.3
150°	2.7	2.4	1.8	1.5	0.9	0.6	0.6	0.3	0.0	0.0	0.0
152.5°	0.9	0.9	0.6	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3

(END OF REPORT)