

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: P314643

Luminaire Tested: **MPB-A3-D-U-ASYM**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314643
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-A3-D-U-ASYM
Description: BRECKENRIDGE POST TOP LUMINAIRE
(1) 70 CRI, 4000K LIGHT ENGINE. ASYMMETRIC DISTRIBUTION.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3035 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.58')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U3 - G3

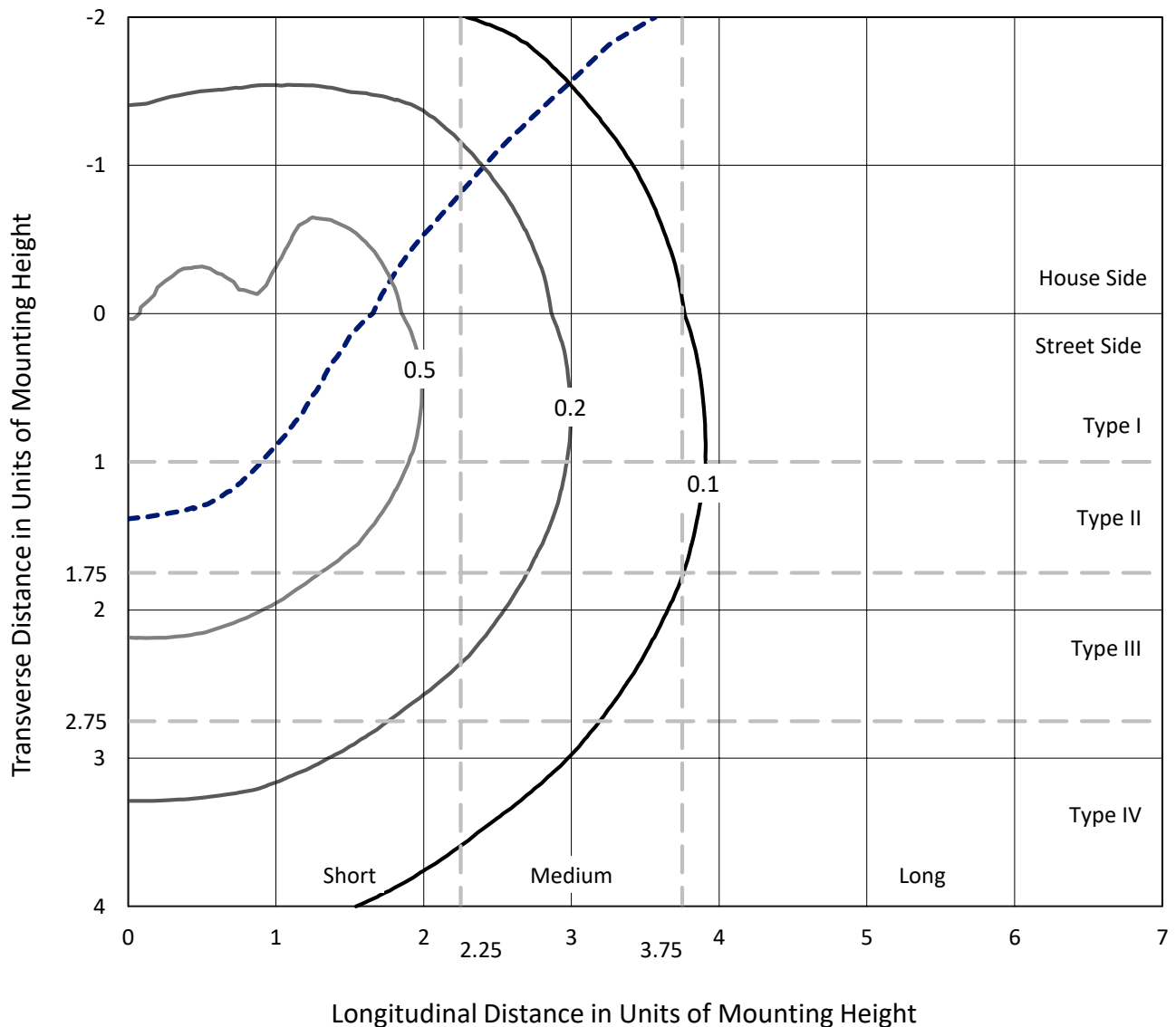
Input Watts (W): 28.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

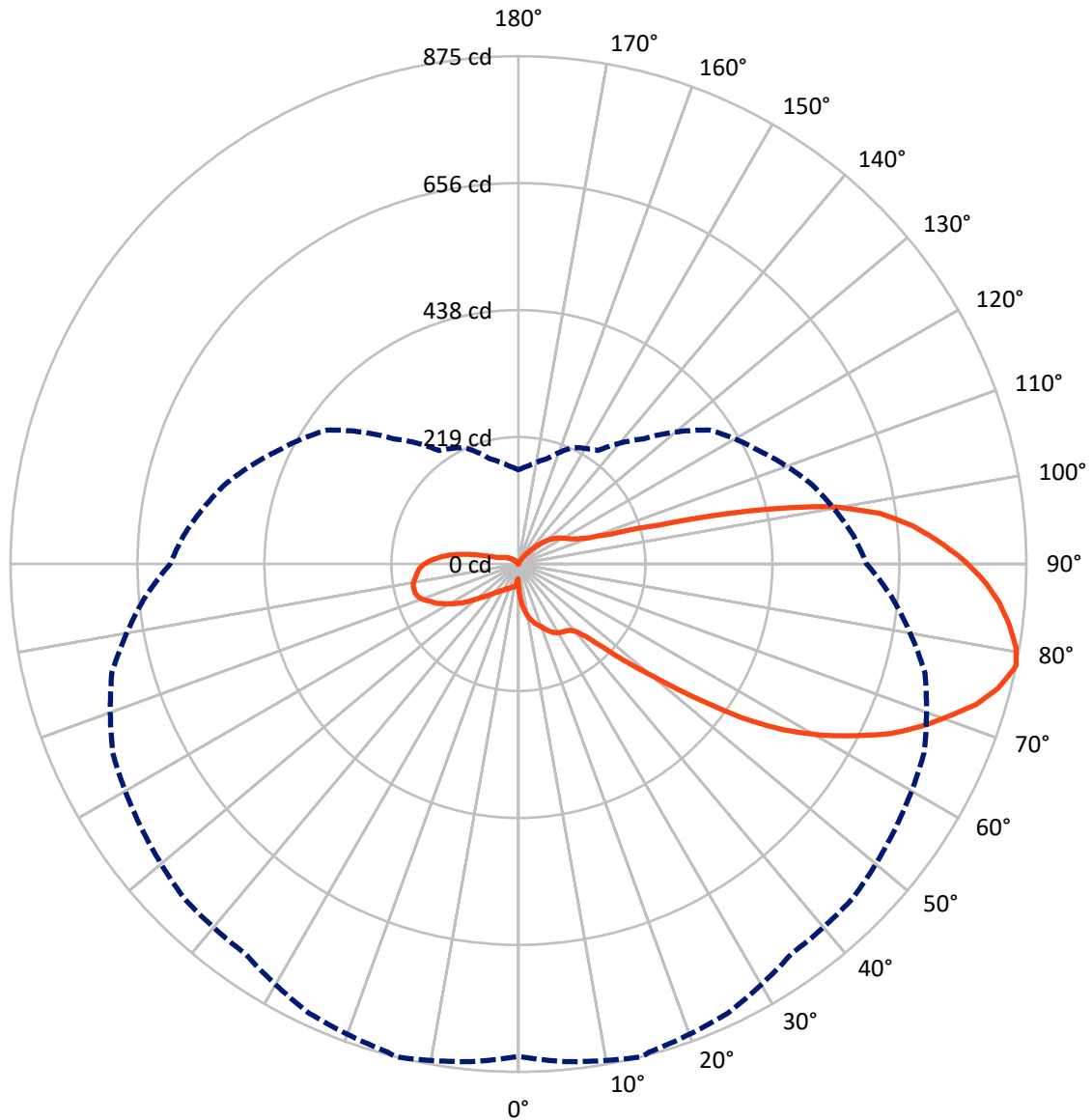
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 14-Deg Lateral - - - Horizontal Cone Through 78-Deg Vertical



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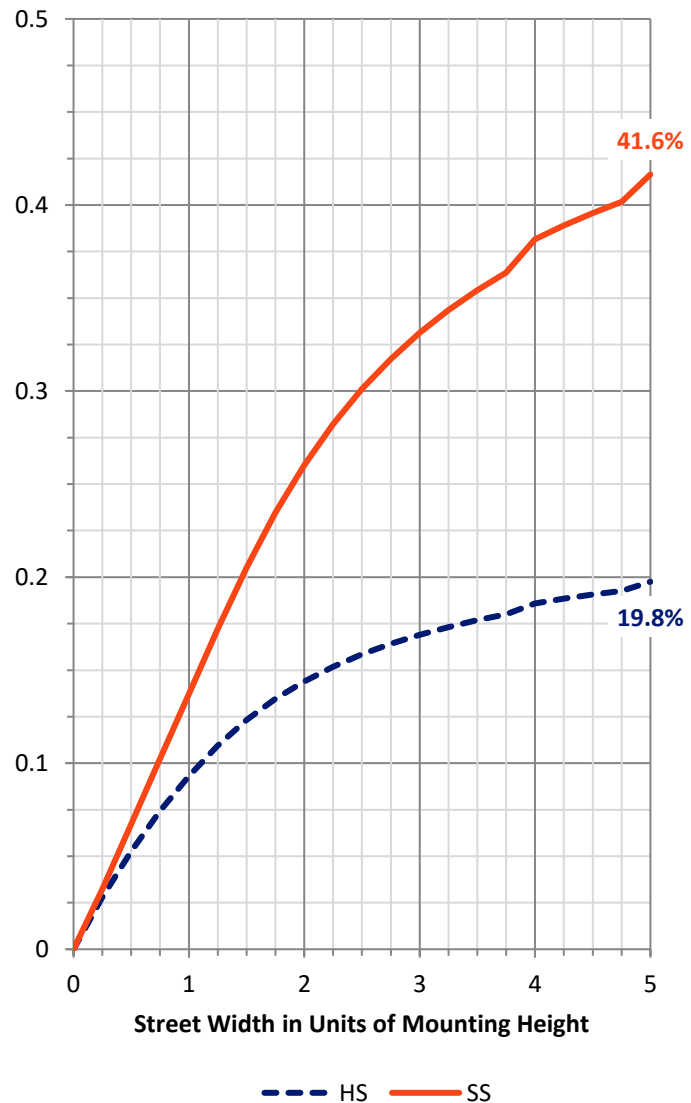
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	680.9	249.9	930.9
	% Fixture	22.4	8.2	30.7
Street Side	Lumens	1517.2	586.9	2104.2
	% Fixture	50.0	19.3	69.3
Total	Lumens	2198.2	836.9	3035.0
	% Fixture	72.4	27.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.4	0.2
10°-20°	21.5	0.7
20°-30°	42.5	1.4
30°-40°	64.9	2.1
40°-50°	122.9	4.0
50°-60°	296.2	9.8
60°-70°	469.7	15.5
70°-80°	587.3	19.4
80°-90°	587.9	19.4
90°-100°	482.2	15.9
100°-110°	205.5	6.8
110°-120°	70.9	2.3
120°-130°	47.4	1.6
130°-140°	23.6	0.8
140°-150°	6.8	0.2
150°-160°	0.4	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	2198.2	72.4
0°-180°	3035.0	100.0



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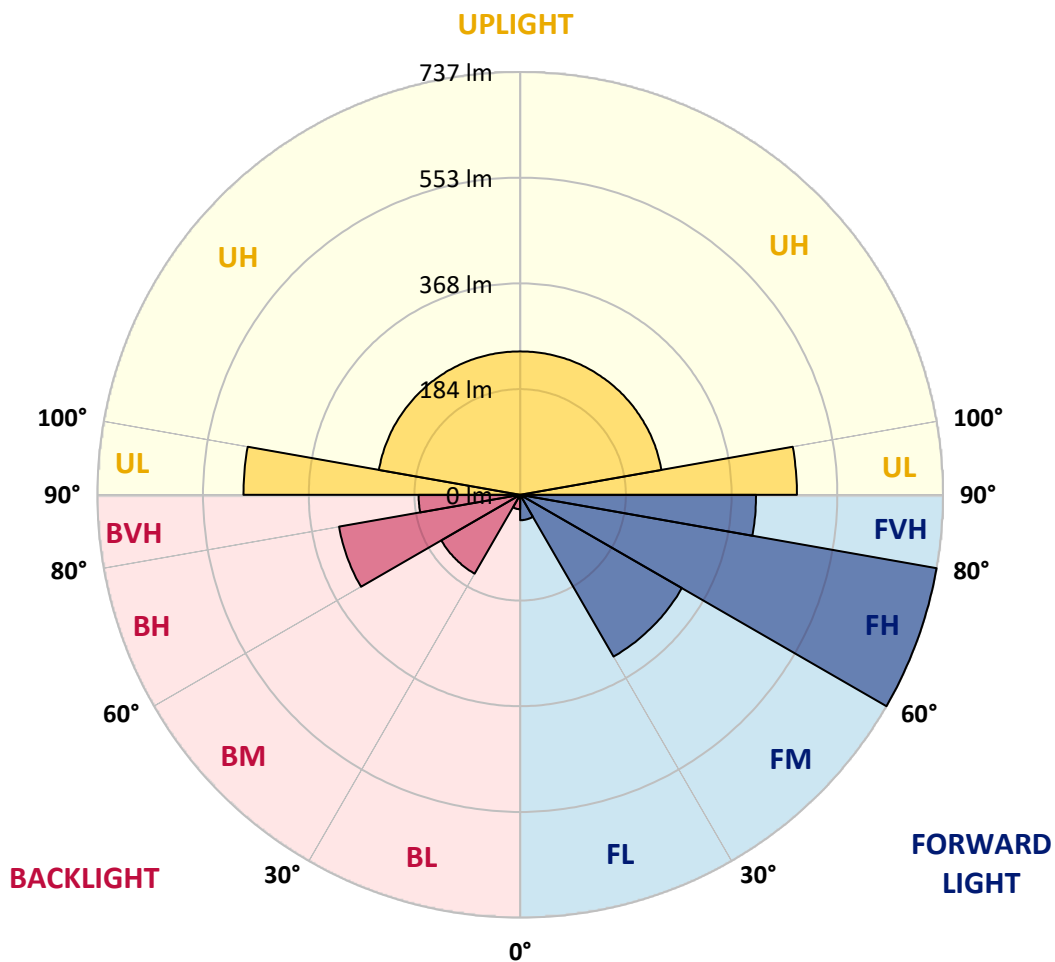
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	44.2	1.5			
FM (30°-60°)	325.3	10.7			
FH (60°-80°)	736.7	24.3			G1/1800
FVH (80°-90°)	411.0	13.5			G3/500
BL (0°-30°)	25.1	0.8	B0/110		
BM (30°-60°)	158.6	5.2	B0/220		
BH (60°-80°)	320.3	10.6	B1/500		G1/500
BVH (80°-90°)	176.9	5.8			G2/225
UL (90°-100°)	482.2	15.9		U3/500	
UH (100°-180°)	249.9	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°	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6
2.5°	59.0	58.5	58.1	57.6	57.1	54.2	53.2	51.2	48.8	45.9	43.4
5°	73.2	72.7	71.7	71.7	70.3	68.3	66.3	63.9	60.0	56.1	52.7
7.5°	84.4	83.4	82.9	82.4	81.5	79.0	76.6	73.7	70.3	66.3	62.4
10°	92.7	92.7	92.2	92.2	90.7	88.3	84.9	82.0	78.1	73.2	68.8
12.5°	100.5	100.0	99.5	99.5	98.1	95.1	91.7	88.3	84.4	79.5	75.1
15°	105.9	105.9	105.9	105.4	103.4	101.0	97.6	94.6	90.3	84.9	80.5
17.5°	111.2	111.2	110.7	110.7	108.3	105.9	102.5	99.5	95.1	89.8	84.9
20°	117.1	117.1	116.1	115.6	113.7	111.7	107.8	104.4	100.0	95.1	89.8
22.5°	124.4	123.9	122.9	122.9	120.5	117.1	113.7	110.3	105.9	100.5	95.1
25°	130.3	130.3	129.3	128.8	126.8	123.9	120.0	115.1	110.7	105.4	100.5
27.5°	135.6	135.1	133.7	133.2	131.2	128.3	124.4	120.0	114.6	109.3	103.9
30°	140.0	139.0	137.6	137.6	135.1	131.7	127.8	123.4	117.1	112.2	106.8
32.5°	142.0	141.5	139.5	139.0	136.6	133.2	129.3	124.4	119.0	113.7	108.8
35°	143.9	143.4	141.5	141.0	138.1	134.2	129.8	125.4	119.5	115.1	109.8
37.5°	147.3	147.3	144.9	144.4	141.5	138.6	134.2	129.8	124.9	119.0	113.2
40°	154.7	154.2	152.7	151.7	149.3	148.3	144.4	140.0	135.1	130.7	122.0
42.5°	170.8	171.2	171.2	170.3	167.8	169.3	166.8	163.4	157.6	151.7	140.5
45°	200.0	205.4	203.9	202.9	200.0	204.9	203.4	202.0	193.7	184.9	169.3
47.5°	244.9	252.2	253.7	249.8	246.9	250.8	256.6	253.7	242.5	231.7	212.2
50°	303.4	311.3	309.3	308.3	302.5	313.7	321.5	320.0	306.9	293.7	263.4
52.5°	376.6	380.5	384.4	380.0	374.7	389.3	406.4	404.4	391.3	371.3	333.2
55°	460.0	464.0	467.9	462.5	454.7	471.8	494.2	489.8	476.1	443.5	399.6
57.5°	533.2	540.5	539.1	537.1	521.0	538.1	556.2	551.8	535.2	498.1	447.9
60°	588.4	592.7	598.6	596.6	587.9	591.3	609.8	599.1	579.1	538.1	484.0
62.5°	638.1	644.0	651.8	649.8	643.0	637.6	652.3	638.1	617.6	577.1	517.1
65°	687.4	694.2	705.0	702.0	693.2	681.0	695.2	680.6	657.6	613.7	547.4
67.5°	727.4	734.7	747.4	745.9	740.1	725.9	729.8	711.8	687.9	642.0	572.3
70°	768.4	776.7	785.9	787.9	771.8	759.1	762.5	742.5	721.5	676.2	601.0
72.5°	804.0	807.9	825.5	829.4	807.9	785.9	789.8	766.9	744.0	693.7	621.0
75°	835.7	840.1	853.8	854.2	829.8	809.4	810.3	791.3	770.8	720.6	639.6
77.5°	849.4	857.7	872.3	867.9	851.3	820.1	823.5	804.5	780.1	725.0	642.0
78°	848.4	860.6	875.2	870.8	853.8	820.1	814.7	793.3	771.3	725.4	645.4
80°	845.0	860.1	869.4	865.0	849.8	811.3	804.5	786.4	765.9	719.6	635.7
82.5°	825.5	842.0	851.8	848.4	837.2	796.7	793.3	785.9	767.4	717.2	628.8
85°	808.4	825.0	830.3	827.9	815.7	777.6	775.7	762.5	737.6	690.8	607.4
87.5°	785.5	799.6	802.0	802.5	788.4	749.8	746.9	736.2	718.1	675.2	592.7
90°	749.8	762.0	767.4	767.4	755.7	720.1	720.6	717.2	700.6	654.7	572.3
92.5°	709.3	721.1	726.4	725.9	715.7	684.5	684.5	678.1	656.7	616.7	539.6
95°	666.4	675.2	683.0	682.5	668.9	639.6	638.6	638.1	617.6	578.6	507.9
97.5°	612.7	617.6	628.4	626.9	614.2	592.3	593.2	595.2	576.6	540.1	471.8
100°	530.3	529.8	543.5	540.5	532.7	518.6	524.9	527.9	512.3	480.5	423.0
102.5°	394.7	394.2	405.9	403.0	403.5	398.1	408.3	413.2	403.5	379.1	332.2
105°	247.3	245.4	252.2	250.3	247.8	241.0	242.5	240.5	235.1	220.5	193.7
107.5°	163.9	162.5	165.9	166.8	162.5	157.6	156.1	154.2	148.3	139.5	124.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	126.8	126.8	128.8	127.8	125.9	123.4	121.5	120.5	116.1	110.3	99.0
112.5°	108.8	108.8	110.7	110.3	108.8	106.4	105.9	104.9	102.0	97.1	88.3
115°	99.0	99.0	100.5	100.5	99.0	96.6	96.1	95.6	93.7	89.3	81.5
117.5°	92.7	92.2	93.7	93.7	91.7	90.3	90.3	89.8	88.3	83.9	77.1
120°	86.8	86.8	87.8	87.8	86.4	85.4	85.9	85.4	83.9	79.5	72.7
122.5°	81.5	81.5	82.4	82.0	81.0	81.0	81.0	81.0	79.5	75.6	68.8
125°	74.6	74.6	75.6	75.6	74.6	75.1	75.6	75.6	74.6	70.7	64.4
127.5°	67.3	67.3	68.3	68.3	67.8	68.8	70.3	69.8	68.8	65.4	59.5
130°	59.0	59.0	60.0	60.5	60.5	62.0	62.9	62.9	62.0	59.0	53.2
132.5°	50.2	49.8	50.7	51.2	52.2	53.7	54.2	54.2	53.7	50.7	45.9
135°	40.5	40.5	42.0	42.4	43.4	44.4	44.9	45.4	44.9	42.4	38.1
137.5°	31.2	31.2	32.7	33.2	34.2	34.6	34.6	35.6	34.6	33.2	29.8
140°	24.4	24.4	25.4	25.9	26.8	26.8	26.3	26.3	25.9	24.9	22.0
142.5°	19.5	19.0	20.5	20.5	21.0	21.5	21.0	21.0	20.5	19.5	17.6
145°	14.6	14.6	15.1	15.6	15.6	16.1	16.1	16.1	15.6	15.1	13.2
147.5°	9.8	9.8	10.7	10.7	11.2	11.7	11.7	11.7	11.2	10.7	9.3
150°	4.9	4.9	5.4	5.9	6.3	6.3	6.8	7.3	6.8	6.3	5.4
152.5°	0.0	0.0	0.5	0.5	1.0	1.5	2.0	2.0	2.0	2.0	2.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
157.5°	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.5	0.5	0.5
160°	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.5	0.5	0.5	0.5
162.5°	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5
165°	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5
167.5°	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5
170°	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
172.5°	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
175°	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
177.5°	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
180°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6
2.5°	42.0	40.0	37.6	35.1	32.7	30.2	28.3	26.3	25.4	24.4	24.4
5°	50.7	48.8	45.4	42.0	38.5	36.1	34.2	32.7	31.7	31.7	32.2
7.5°	60.5	58.5	53.7	48.8	45.4	42.4	40.0	38.5	37.1	36.1	36.1
10°	66.8	63.9	59.5	55.1	51.2	47.3	44.4	42.0	39.5	38.1	37.6
12.5°	72.2	69.8	64.4	59.5	55.1	50.2	46.8	43.4	40.5	38.5	38.1
15°	77.1	74.2	68.8	63.4	58.1	52.7	48.3	44.4	41.5	39.0	39.0
17.5°	82.0	79.0	73.2	67.3	61.0	55.1	49.8	45.9	42.4	40.5	40.0
20°	86.8	83.4	77.6	71.2	63.9	57.6	51.7	47.3	43.9	42.4	42.0
22.5°	91.7	88.3	82.0	75.1	67.3	60.0	53.7	48.8	45.4	44.4	44.4
25°	96.6	92.7	85.9	78.5	70.3	62.9	56.1	50.7	47.3	46.3	46.8
27.5°	100.0	96.6	89.3	81.5	73.2	65.4	58.1	52.7	49.3	48.8	48.8
30°	103.4	99.5	91.7	83.9	75.6	67.8	60.5	54.6	51.7	51.2	51.7
32.5°	105.4	101.5	93.2	85.9	77.6	69.3	62.4	56.6	53.7	54.2	54.2
35°	106.4	102.5	95.1	87.3	79.0	71.2	64.4	59.0	57.1	57.1	57.1
37.5°	109.3	105.4	97.6	89.8	82.0	74.2	67.3	62.0	60.5	61.0	60.5
40°	116.6	112.7	103.9	95.1	86.8	78.5	71.2	65.9	64.9	65.4	64.9
42.5°	134.2	129.8	117.1	105.4	95.1	85.4	76.6	71.2	70.3	70.3	70.7
45°	160.0	154.2	140.0	122.5	109.3	96.1	84.9	78.1	76.6	76.1	75.6
47.5°	198.1	189.3	171.7	149.3	129.3	112.2	95.6	86.4	83.4	82.4	81.5
50°	247.8	238.1	212.2	182.9	160.5	133.2	110.3	97.1	91.7	88.8	87.8
52.5°	309.3	299.5	264.9	228.8	196.6	160.5	130.3	110.3	102.5	96.6	95.1
55°	371.3	361.0	322.5	273.2	237.6	188.8	152.2	125.9	114.6	105.4	104.4
57.5°	415.7	402.5	361.0	310.8	271.7	214.2	168.8	139.5	125.4	114.6	112.2
60°	445.9	432.2	391.7	336.6	298.1	233.7	182.5	151.2	136.6	124.9	122.9
62.5°	475.7	462.0	416.1	359.6	319.1	245.9	194.2	161.5	146.8	134.6	134.6
65°	503.5	488.8	439.1	383.0	339.5	257.6	204.9	171.7	158.1	146.4	148.8
67.5°	526.4	511.8	460.0	405.9	356.1	270.3	212.7	185.9	165.4	156.6	156.1
70°	553.2	536.2	482.0	425.4	376.6	286.4	220.5	197.1	176.1	166.8	159.0
72.5°	571.3	549.8	500.5	440.5	385.9	295.6	228.8	210.8	183.4	167.8	162.5
75°	590.8	571.3	518.1	453.2	402.5	303.9	233.7	216.6	186.8	168.3	162.0
77.5°	594.2	573.7	522.0	455.7	401.0	308.3	240.0	219.5	186.8	168.8	162.9
78°	600.1	578.6	524.9	459.6	402.5	305.4	238.6	221.5	187.3	168.8	162.5
80°	591.3	572.3	519.6	453.2	397.6	302.5	238.1	222.0	186.4	166.8	160.0
82.5°	581.5	564.5	509.3	445.9	391.3	298.1	234.7	214.2	182.0	161.0	154.7
85°	561.5	548.8	498.6	434.7	379.1	287.8	231.2	212.2	178.1	155.6	149.8
87.5°	546.4	534.7	484.0	427.4	372.2	279.5	224.4	206.9	173.7	150.7	144.9
90°	524.9	511.3	460.5	403.9	352.2	267.8	216.6	196.1	166.4	144.9	139.0
92.5°	496.2	484.9	436.6	381.5	333.2	250.8	202.9	184.9	154.7	136.6	130.3
95°	466.4	456.1	409.8	360.5	314.7	235.6	189.3	171.7	140.0	125.9	119.0
97.5°	432.2	423.0	379.1	330.8	286.9	216.1	170.8	154.7	123.4	110.3	105.9
100°	383.5	374.7	332.2	288.3	248.3	186.4	142.5	128.8	102.5	91.2	87.3
102.5°	295.6	288.3	251.7	216.6	182.5	135.6	101.0	92.7	77.6	67.8	64.9
105°	173.7	169.3	149.8	129.3	108.3	83.4	63.4	62.0	53.2	48.8	46.3
107.5°	112.7	109.3	98.1	86.4	73.7	58.5	46.8	44.4	39.5	37.6	36.6



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CATALOG NUMBER: MPB-A3-D-U-ASYM

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	92.2	89.3	80.5	70.7	61.0	48.3	40.0	37.1	33.2	31.7	31.2
112.5°	82.0	79.5	71.7	62.9	54.6	43.4	36.1	33.2	29.8	28.3	27.8
115°	76.1	73.2	65.9	58.1	50.7	40.5	33.7	30.7	27.3	25.4	25.4
117.5°	71.2	68.3	62.0	54.6	47.3	37.6	31.2	27.8	24.9	22.9	22.4
120°	67.8	64.9	58.5	51.2	44.4	35.1	29.3	25.4	22.0	20.0	19.5
122.5°	63.9	61.0	54.6	47.8	40.5	32.2	26.3	22.4	19.5	17.6	17.1
125°	60.0	57.1	50.7	43.9	36.6	28.8	23.4	19.5	16.6	15.1	14.6
127.5°	55.6	52.7	46.3	39.5	32.7	25.4	20.5	17.1	14.1	12.7	12.2
130°	49.8	46.8	41.0	34.6	28.3	22.0	17.6	14.1	12.2	10.7	10.2
132.5°	42.9	40.0	34.6	29.3	23.9	18.5	14.1	11.7	9.8	8.8	8.3
135°	35.6	33.2	28.8	23.9	19.5	15.1	11.7	9.8	7.8	6.8	6.8
137.5°	27.8	25.9	22.0	18.5	15.1	11.7	8.8	7.3	6.3	5.4	5.4
140°	21.0	19.5	16.6	14.1	11.2	8.8	6.8	5.9	4.9	3.9	3.9
142.5°	16.1	15.1	12.7	10.7	8.8	6.3	4.9	3.9	3.4	2.9	2.9
145°	12.2	11.2	9.3	7.8	6.3	4.4	3.4	2.4	2.0	2.0	1.5
147.5°	8.3	7.8	6.3	4.9	3.9	2.4	2.0	1.5	1.0	1.0	0.5
150°	4.4	3.9	2.9	2.4	1.5	1.0	1.0	0.5	0.0	0.0	0.0
152.5°	1.5	1.5	1.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5

(END OF REPORT)