

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: P314638

Luminaire Tested: **MPB-A4-D-U-ASYM-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P314638  
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-A4-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: 3835 lumens  
Efficiency: N/A  
Efficacy: 97.1 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.58')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U4 - G4

Input Watts (W): 39.5  
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

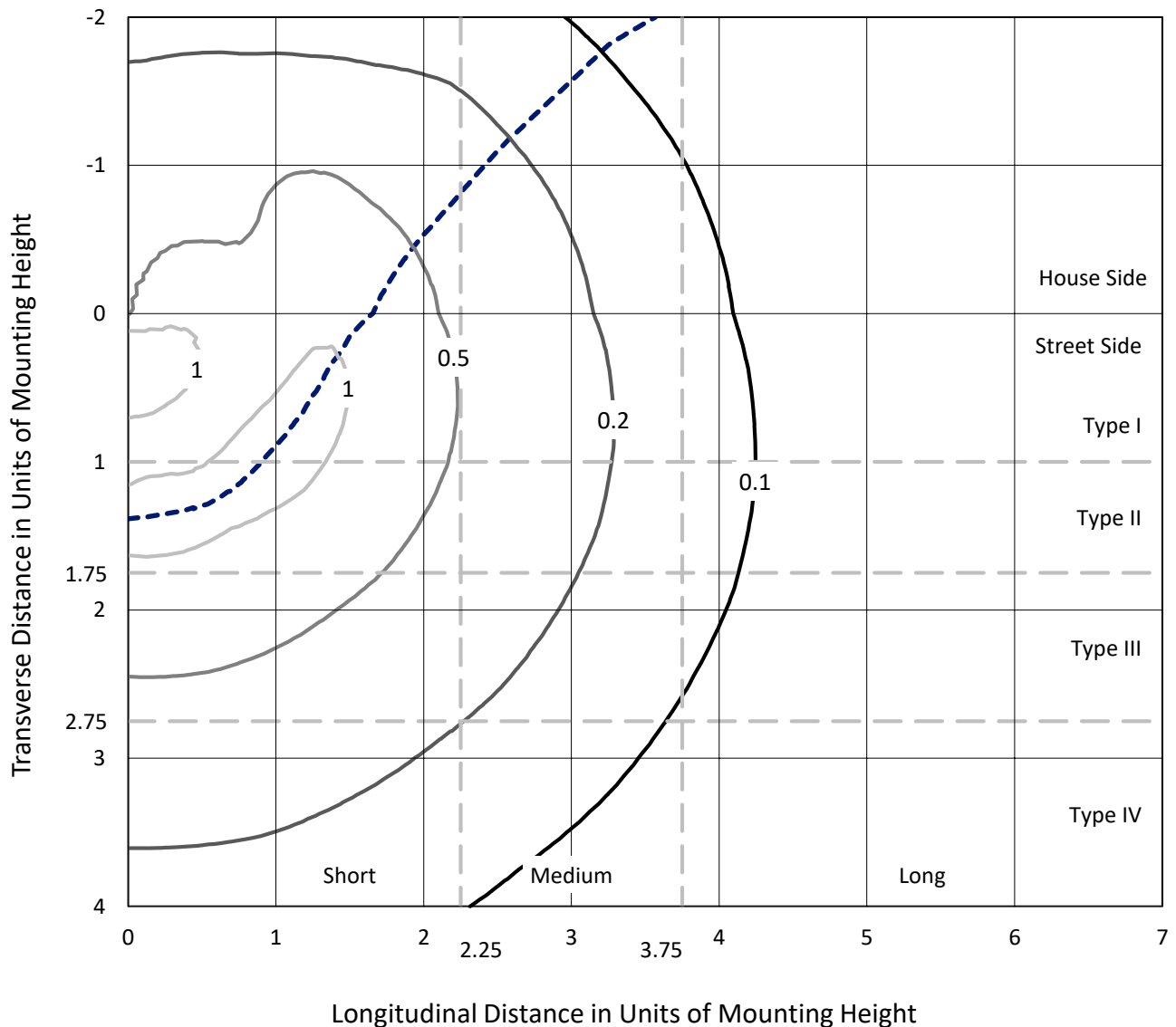


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

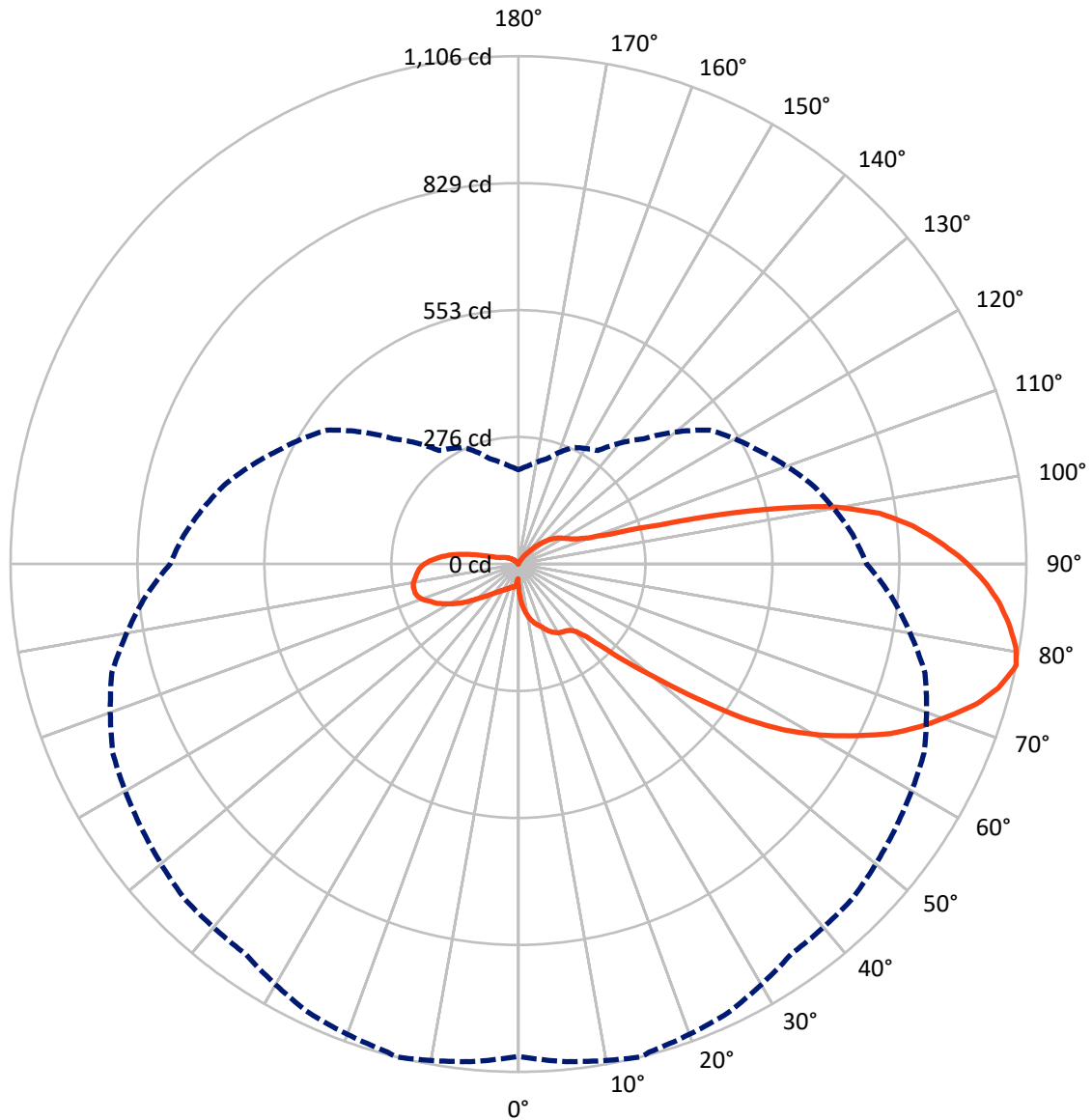


Based on 10 foot mounting height. Maximum calculated value = 1.2 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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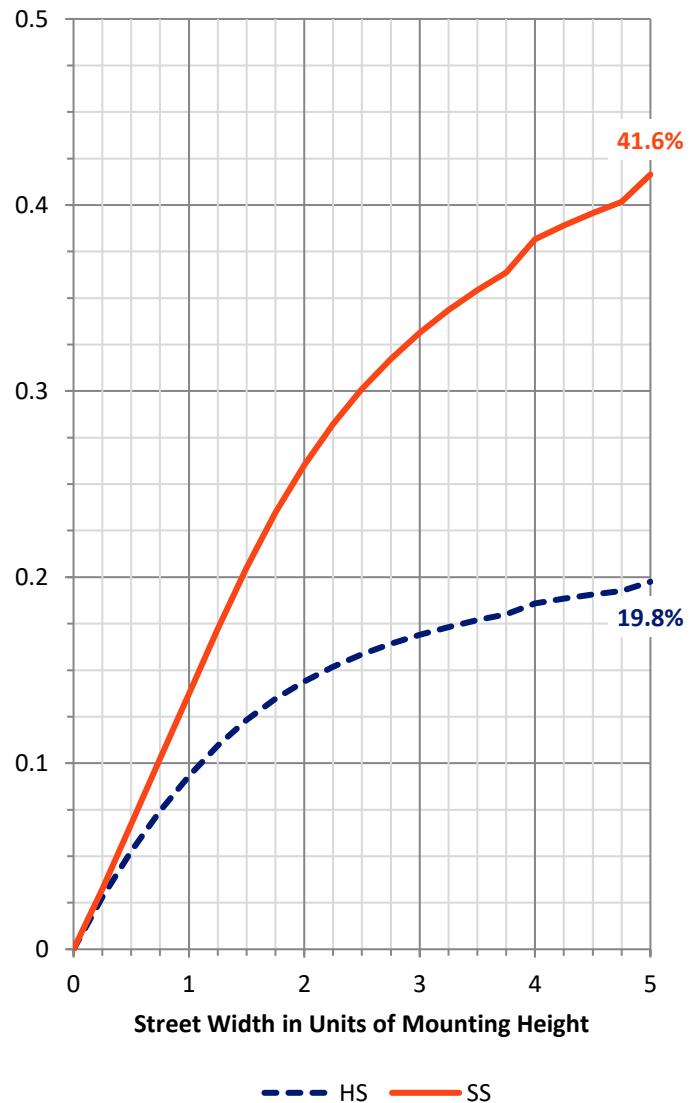
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	860.4	315.8	1176.2
	% Fixture	22.4	8.2	30.7
<b>Street Side</b>	Lumens	1917.2	741.6	2658.8
	% Fixture	50.0	19.3	69.3
<b>Total</b>	Lumens	2777.6	1057.4	3835.0
	% Fixture	72.4	27.6	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6.8	0.2
10°-20°	27.2	0.7
20°-30°	53.7	1.4
30°-40°	82.0	2.1
40°-50°	155.3	4.0
50°-60°	374.3	9.8
60°-70°	593.5	15.5
70°-80°	742.1	19.4
80°-90°	742.9	19.4
90°-100°	609.3	15.9
100°-110°	259.7	6.8
110°-120°	89.6	2.3
120°-130°	59.9	1.6
130°-140°	29.8	0.8
140°-150°	8.6	0.2
150°-160°	0.5	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	2777.6	72.4
0°-180°	3835.0	100.0



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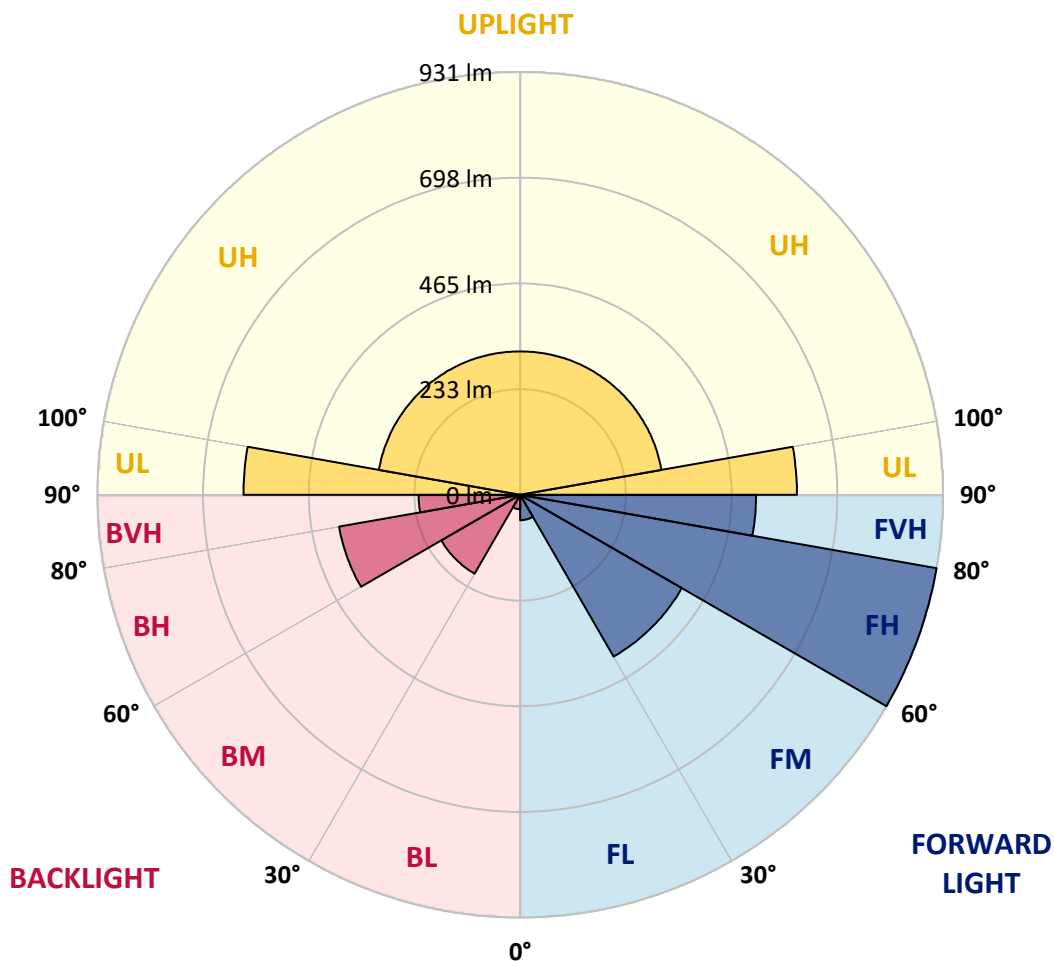
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	55.9	1.5			
FM	(30°-60°)	411.1	10.7			
FH	(60°-80°)	930.9	24.3			G1/1800
FVH	(80°-90°)	519.3	13.5			G4/750
BL	(0°-30°)	31.7	0.8	B0/110		
BM	(30°-60°)	200.4	5.2	B0/220		
BH	(60°-80°)	404.8	10.6	B1/500		G1/500
BVH	(80°-90°)	223.6	5.8			G2/225
UL	(90°-100°)	609.3	15.9		U4/1000	
UH	(100°-180°)	315.8	8.2		U3/500	

**BUG Rating: B1-U4-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
0°	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5
2.5°	74.6	74.0	73.4	72.7	72.1	68.4	67.2	64.7	61.6	57.9	54.9
5°	92.5	91.9	90.6	90.6	88.8	86.3	83.8	80.8	75.8	70.9	66.6
7.5°	106.6	105.4	104.8	104.2	102.9	99.9	96.8	93.1	88.8	83.8	78.9
10°	117.1	117.1	116.5	116.5	114.7	111.6	107.3	103.6	98.6	92.5	86.9
12.5°	127.0	126.4	125.8	125.8	123.9	120.2	115.9	111.6	106.6	100.5	94.9
15°	133.8	133.8	133.8	133.2	130.7	127.6	123.3	119.6	114.0	107.3	101.7
17.5°	140.6	140.6	139.9	139.9	136.9	133.8	129.5	125.8	120.2	113.4	107.3
20°	147.9	147.9	146.7	146.1	143.6	141.2	136.2	131.9	126.4	120.2	113.4
22.5°	157.2	156.6	155.3	155.3	152.3	147.9	143.6	139.3	133.8	127.0	120.2
25°	164.6	164.6	163.4	162.7	160.3	156.6	151.6	145.5	139.9	133.2	127.0
27.5°	171.4	170.8	168.9	168.3	165.8	162.1	157.2	151.6	144.9	138.1	131.3
30°	176.9	175.7	173.8	173.8	170.8	166.4	161.5	156.0	147.9	141.8	135.0
32.5°	179.4	178.8	176.3	175.7	172.6	168.3	163.4	157.2	150.4	143.6	137.5
35°	181.9	181.2	178.8	178.2	174.5	169.5	164.0	158.4	151.0	145.5	138.7
37.5°	186.2	186.2	183.1	182.5	178.8	175.1	169.5	164.0	157.8	150.4	143.0
40°	195.4	194.8	192.9	191.7	188.6	187.4	182.5	176.9	170.8	165.2	154.1
42.5°	215.8	216.4	216.4	215.1	212.1	213.9	210.8	206.5	199.1	191.7	177.5
45°	252.7	259.5	257.7	256.4	252.7	258.9	257.1	255.2	244.7	233.6	213.9
47.5°	309.5	318.7	320.6	315.6	311.9	316.9	324.3	320.6	306.4	292.8	268.2
50°	383.4	393.3	390.8	389.6	382.2	396.4	406.2	404.4	387.7	371.1	332.9
52.5°	475.9	480.8	485.8	480.2	473.4	491.9	513.5	511.0	494.4	469.1	421.0
55°	581.3	586.2	591.2	584.4	574.5	596.1	624.5	618.9	601.7	560.4	504.9
57.5°	673.8	683.0	681.2	678.7	658.4	679.9	702.8	697.2	676.2	629.4	565.9
60°	743.4	749.0	756.4	753.9	742.8	747.1	770.6	757.0	731.7	679.9	611.5
62.5°	806.3	813.7	823.6	821.1	812.5	805.7	824.2	806.3	780.4	729.3	653.4
65°	868.6	877.2	890.8	887.1	876.0	860.6	878.4	860.0	831.0	775.5	691.7
67.5°	919.1	928.4	944.4	942.6	935.2	917.3	922.2	899.4	869.2	811.3	723.1
70°	970.9	981.4	993.1	995.6	975.2	959.2	963.5	938.2	911.7	854.4	759.5
72.5°	1015.9	1020.8	1043.0	1048.0	1020.8	993.1	998.0	969.1	940.1	876.6	784.7
75°	1056.0	1061.5	1078.8	1079.4	1048.6	1022.7	1023.9	999.9	974.0	910.5	808.2
77.5°	1073.2	1083.7	1102.2	1096.7	1075.7	1036.3	1040.6	1016.5	985.7	916.0	811.3
78°	1072.0	1087.4	1105.9	1100.4	1078.8	1036.3	1029.5	1002.4	974.6	916.7	815.6
80°	1067.7	1086.8	1098.5	1093.0	1073.9	1025.2	1016.5	993.7	967.8	909.3	803.2
82.5°	1043.0	1064.0	1076.3	1072.0	1057.8	1006.7	1002.4	993.1	969.7	906.2	794.6
85°	1021.5	1042.4	1049.2	1046.1	1030.7	982.6	980.2	963.5	932.1	872.9	767.5
87.5°	992.5	1010.4	1013.4	1014.1	996.2	947.5	943.8	930.2	907.4	853.2	749.0
90°	947.5	962.9	969.7	969.7	954.9	909.9	910.5	906.2	885.2	827.3	723.1
92.5°	896.3	911.1	917.9	917.3	904.3	864.9	864.9	856.9	829.7	779.2	681.8
95°	842.1	853.2	863.0	862.4	845.2	808.2	806.9	806.3	780.4	731.1	641.7
97.5°	774.3	780.4	794.0	792.1	776.1	748.4	749.6	752.1	728.6	682.4	596.1
100°	670.1	669.5	686.7	683.0	673.2	655.3	663.3	667.0	647.3	607.2	534.5
102.5°	498.7	498.1	512.9	509.2	509.8	503.0	516.0	522.1	509.8	479.0	419.8
105°	312.5	310.1	318.7	316.2	313.2	304.5	306.4	303.9	297.1	278.6	244.7
107.5°	207.1	205.3	209.6	210.8	205.3	199.1	197.3	194.8	187.4	176.3	157.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	160.3	160.3	162.7	161.5	159.0	156.0	153.5	152.3	146.7	139.3	125.1
112.5°	137.5	137.5	139.9	139.3	137.5	134.4	133.8	132.5	128.8	122.7	111.6
115°	125.1	125.1	127.0	127.0	125.1	122.1	121.4	120.8	118.4	112.8	102.9
117.5°	117.1	116.5	118.4	118.4	115.9	114.0	114.0	113.4	111.6	106.0	97.4
120°	109.7	109.7	111.0	111.0	109.1	107.9	108.5	107.9	106.0	100.5	91.9
122.5°	102.9	102.9	104.2	103.6	102.3	102.3	102.3	102.3	100.5	95.6	86.9
125°	94.3	94.3	95.6	95.6	94.3	94.9	95.6	95.6	94.3	89.4	81.4
127.5°	85.1	85.1	86.3	86.3	85.7	86.9	88.8	88.2	86.9	82.6	75.2
130°	74.6	74.6	75.8	76.4	76.4	78.3	79.5	79.5	78.3	74.6	67.2
132.5°	63.5	62.9	64.1	64.7	66.0	67.8	68.4	68.4	67.8	64.1	57.9
135°	51.2	51.2	53.0	53.6	54.9	56.1	56.7	57.3	56.7	53.6	48.1
137.5°	39.5	39.5	41.3	41.9	43.2	43.8	43.8	45.0	43.8	41.9	37.6
140°	30.8	30.8	32.1	32.7	33.9	33.9	33.3	33.3	32.7	31.4	27.7
142.5°	24.7	24.0	25.9	25.9	26.5	27.1	26.5	26.5	25.9	24.7	22.2
145°	18.5	18.5	19.1	19.7	19.7	20.3	20.3	20.3	19.7	19.1	16.6
147.5°	12.3	12.3	13.6	13.6	14.2	14.8	14.8	14.8	14.2	13.6	11.7
150°	6.2	6.2	6.8	7.4	8.0	8.0	8.6	9.2	8.6	8.0	6.8
152.5°	0.0	0.0	0.6	0.6	1.2	1.8	2.5	2.5	2.5	2.5	2.5
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6
157.5°	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.6	0.6	0.6
160°	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.6	0.6	0.6	0.6
162.5°	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6
165°	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6
167.5°	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6
170°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6
172.5°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6
175°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6
177.5°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6
180°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6





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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5
2.5°	53.0	50.5	47.5	44.4	41.3	38.2	35.8	33.3	32.1	30.8	30.8
5°	64.1	61.6	57.3	53.0	48.7	45.6	43.2	41.3	40.1	40.1	40.7
7.5°	76.4	74.0	67.8	61.6	57.3	53.6	50.5	48.7	46.9	45.6	45.6
10°	84.5	80.8	75.2	69.7	64.7	59.8	56.1	53.0	49.9	48.1	47.5
12.5°	91.2	88.2	81.4	75.2	69.7	63.5	59.2	54.9	51.2	48.7	48.1
15°	97.4	93.7	86.9	80.1	73.4	66.6	61.0	56.1	52.4	49.3	49.3
17.5°	103.6	99.9	92.5	85.1	77.1	69.7	62.9	57.9	53.6	51.2	50.5
20°	109.7	105.4	98.0	90.0	80.8	72.7	65.3	59.8	55.5	53.6	53.0
22.5°	115.9	111.6	103.6	94.9	85.1	75.8	67.8	61.6	57.3	56.1	56.1
25°	122.1	117.1	108.5	99.2	88.8	79.5	70.9	64.1	59.8	58.6	59.2
27.5°	126.4	122.1	112.8	102.9	92.5	82.6	73.4	66.6	62.3	61.6	61.6
30°	130.7	125.8	115.9	106.0	95.6	85.7	76.4	69.0	65.3	64.7	65.3
32.5°	133.2	128.2	117.7	108.5	98.0	87.5	78.9	71.5	67.8	68.4	68.4
35°	134.4	129.5	120.2	110.3	99.9	90.0	81.4	74.6	72.1	72.1	72.1
37.5°	138.1	133.2	123.3	113.4	103.6	93.7	85.1	78.3	76.4	77.1	76.4
40°	147.3	142.4	131.3	120.2	109.7	99.2	90.0	83.2	82.0	82.6	82.0
42.5°	169.5	164.0	147.9	133.2	120.2	107.9	96.8	90.0	88.8	88.8	89.4
45°	202.2	194.8	176.9	154.7	138.1	121.4	107.3	98.6	96.8	96.2	95.6
47.5°	250.3	239.2	217.0	188.6	163.4	141.8	120.8	109.1	105.4	104.2	102.9
50°	313.2	300.8	268.2	231.2	202.8	168.3	139.3	122.7	115.9	112.2	111.0
52.5°	390.8	378.5	334.7	289.1	248.4	202.8	164.6	139.3	129.5	122.1	120.2
55°	469.1	456.2	407.5	345.2	300.2	238.6	192.3	159.0	144.9	133.2	131.9
57.5°	525.2	508.6	456.2	392.7	343.4	270.6	213.3	176.3	158.4	144.9	141.8
60°	563.4	546.2	495.0	425.4	376.7	295.3	230.6	191.1	172.6	157.8	155.3
62.5°	601.0	583.8	525.8	454.3	403.2	310.7	245.3	204.0	185.6	170.1	170.1
65°	636.2	617.7	554.8	483.9	429.1	325.5	258.9	217.0	199.7	184.9	188.0
67.5°	665.2	646.7	581.3	512.9	450.0	341.5	268.8	234.9	209.0	197.9	197.3
70°	699.1	677.5	609.1	537.5	475.9	361.9	278.6	249.0	222.5	210.8	201.0
72.5°	721.9	694.7	632.5	556.7	487.6	373.6	289.1	266.3	231.8	212.1	205.3
75°	746.5	721.9	654.7	572.7	508.6	384.0	295.3	273.7	236.1	212.7	204.7
77.5°	750.8	724.9	659.6	575.8	506.7	389.6	303.3	277.4	236.1	213.3	205.9
78°	758.2	731.1	663.3	580.7	508.6	385.9	301.4	279.9	236.7	213.3	205.3
80°	747.1	723.1	656.5	572.7	502.4	382.2	300.8	280.5	235.5	210.8	202.2
82.5°	734.8	713.2	643.6	563.4	494.4	376.7	296.5	270.6	229.9	203.4	195.4
85°	709.5	693.5	630.0	549.3	479.0	363.7	292.2	268.2	225.0	196.6	189.3
87.5°	690.4	675.6	611.5	540.0	470.4	353.2	283.6	261.4	219.5	190.5	183.1
90°	663.3	646.0	581.9	510.4	445.1	338.4	273.7	247.8	210.2	183.1	175.7
92.5°	626.9	612.8	551.7	482.1	421.0	316.9	256.4	233.6	195.4	172.6	164.6
95°	589.3	576.4	517.8	455.6	397.6	297.7	239.2	217.0	176.9	159.0	150.4
97.5°	546.2	534.5	479.0	418.0	362.5	273.1	215.8	195.4	156.0	139.3	133.8
100°	484.5	473.4	419.8	364.3	313.8	235.5	180.0	162.7	129.5	115.3	110.3
102.5°	373.6	364.3	318.1	273.7	230.6	171.4	127.6	117.1	98.0	85.7	82.0
105°	219.5	213.9	189.3	163.4	136.9	105.4	80.1	78.3	67.2	61.6	58.6
107.5°	142.4	138.1	123.9	109.1	93.1	74.0	59.2	56.1	49.9	47.5	46.2



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CATALOG NUMBER: MPB-A4-D-U-ASYM-7030

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	116.5	112.8	101.7	89.4	77.1	61.0	50.5	46.9	41.9	40.1	39.5
112.5°	103.6	100.5	90.6	79.5	69.0	54.9	45.6	41.9	37.6	35.8	35.1
115°	96.2	92.5	83.2	73.4	64.1	51.2	42.5	38.8	34.5	32.1	32.1
117.5°	90.0	86.3	78.3	69.0	59.8	47.5	39.5	35.1	31.4	29.0	28.4
120°	85.7	82.0	74.0	64.7	56.1	44.4	37.0	32.1	27.7	25.3	24.7
122.5°	80.8	77.1	69.0	60.4	51.2	40.7	33.3	28.4	24.7	22.2	21.6
125°	75.8	72.1	64.1	55.5	46.2	36.4	29.6	24.7	21.0	19.1	18.5
127.5°	70.3	66.6	58.6	49.9	41.3	32.1	25.9	21.6	17.9	16.0	15.4
130°	62.9	59.2	51.8	43.8	35.8	27.7	22.2	17.9	15.4	13.6	12.9
132.5°	54.2	50.5	43.8	37.0	30.2	23.4	17.9	14.8	12.3	11.1	10.5
135°	45.0	41.9	36.4	30.2	24.7	19.1	14.8	12.3	9.9	8.6	8.6
137.5°	35.1	32.7	27.7	23.4	19.1	14.8	11.1	9.2	8.0	6.8	6.8
140°	26.5	24.7	21.0	17.9	14.2	11.1	8.6	7.4	6.2	4.9	4.9
142.5°	20.3	19.1	16.0	13.6	11.1	8.0	6.2	4.9	4.3	3.7	3.7
145°	15.4	14.2	11.7	9.9	8.0	5.5	4.3	3.1	2.5	2.5	1.8
147.5°	10.5	9.9	8.0	6.2	4.9	3.1	2.5	1.8	1.2	1.2	0.6
150°	5.5	4.9	3.7	3.1	1.8	1.2	1.2	0.6	0.0	0.0	0.0
152.5°	1.8	1.8	1.2	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6

(END OF REPORT)