

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: P314624

Luminaire Tested: **MPB-A2-D-U-SYM**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314624
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1906-378-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: MPB-A2-D-U-SYM
Description: BRECKENRIDGE POST TOP LUMINAIRE
(1) 70 CRI, 4000K LIGHT ENGINE. SYMMETRIC DISTRIBUTION.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1940 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.58')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U3 - G2

Input Watts (W): 17.6
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

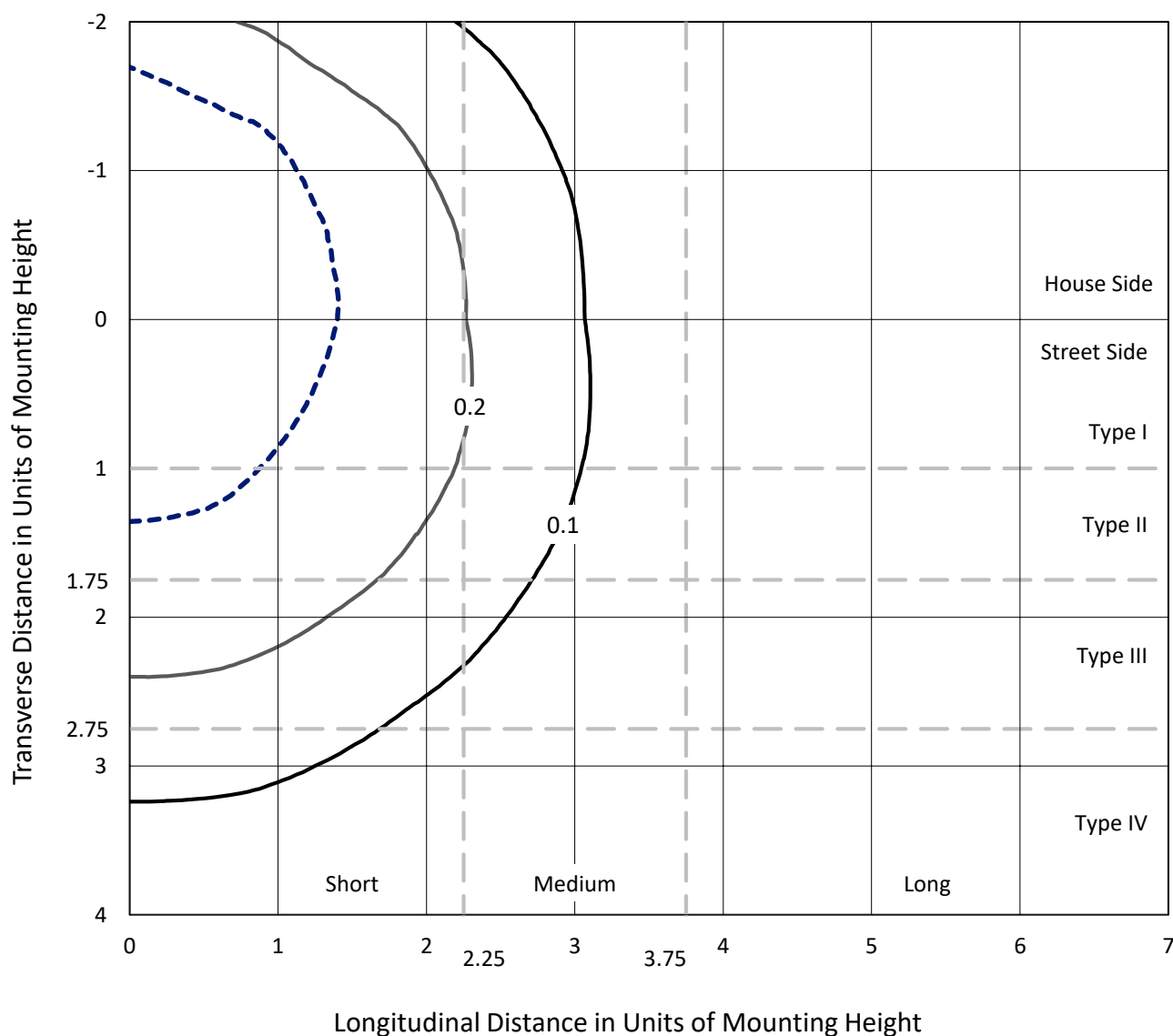


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

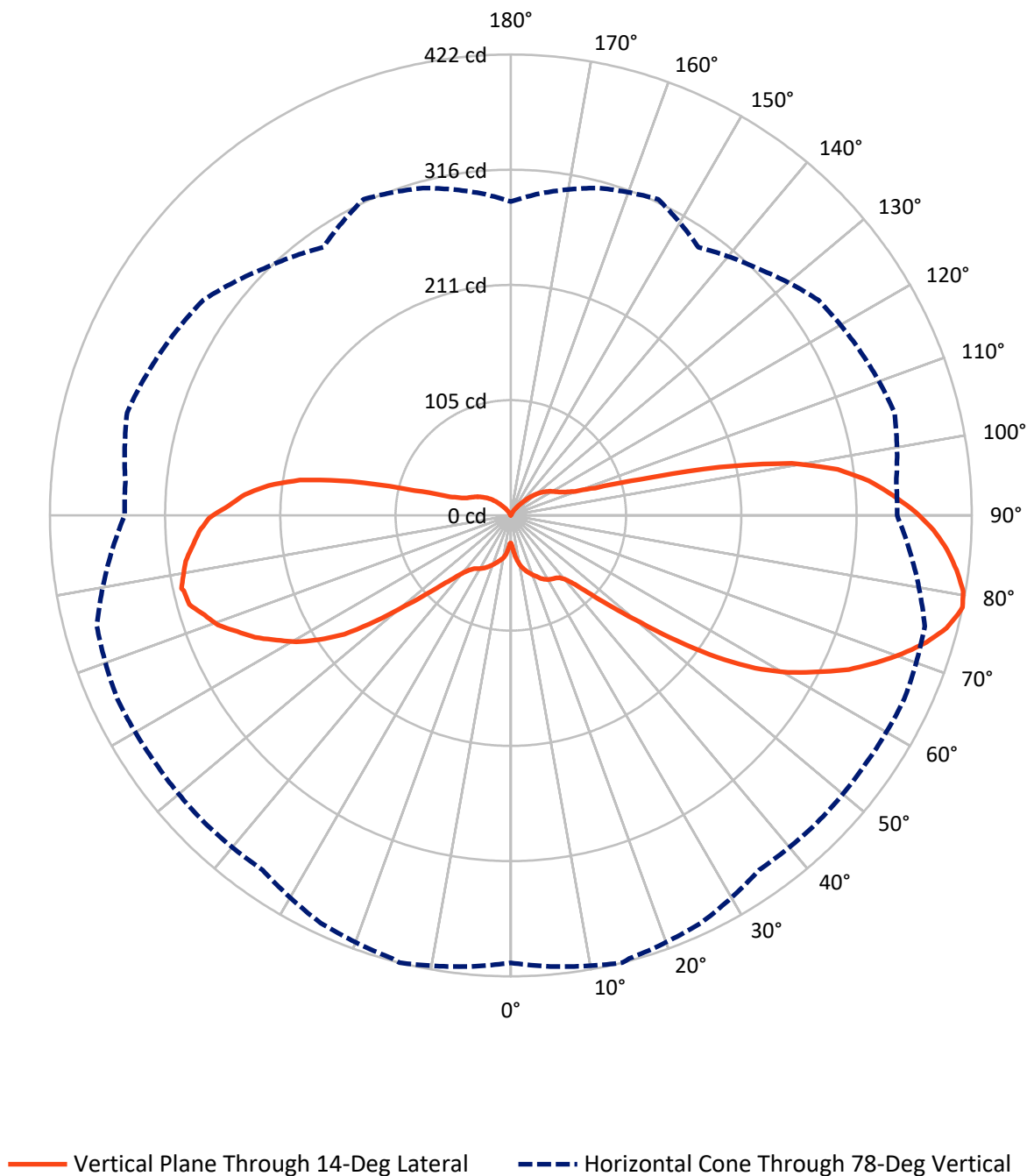


Based on 10 foot mounting height. Maximum calculated value = 0.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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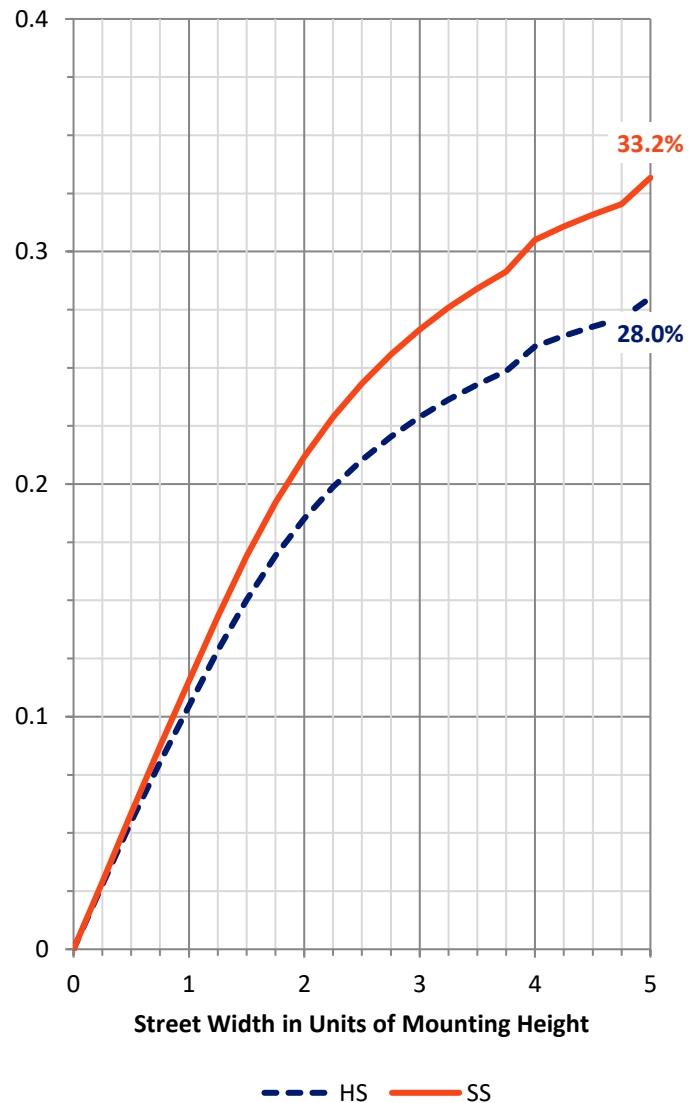
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	637.7	240.5	878.2
	% Fixture	32.9	12.4	45.3
Street Side	Lumens	767.6	294.3	1061.8
	% Fixture	39.6	15.2	54.7
Total	Lumens	1405.3	534.8	1940.0
	% Fixture	72.4	27.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.5	0.2
10°-20°	13.8	0.7
20°-30°	27.1	1.4
30°-40°	41.5	2.1
40°-50°	78.7	4.1
50°-60°	189.8	9.8
60°-70°	300.3	15.5
70°-80°	375.1	19.3
80°-90°	375.4	19.4
90°-100°	308.5	15.9
100°-110°	130.6	6.7
110°-120°	45.5	2.3
120°-130°	30.3	1.6
130°-140°	15.1	0.8
140°-150°	4.5	0.2
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1405.3	72.4
0°-180°	1940.0	100.0

Coefficient of Utilization



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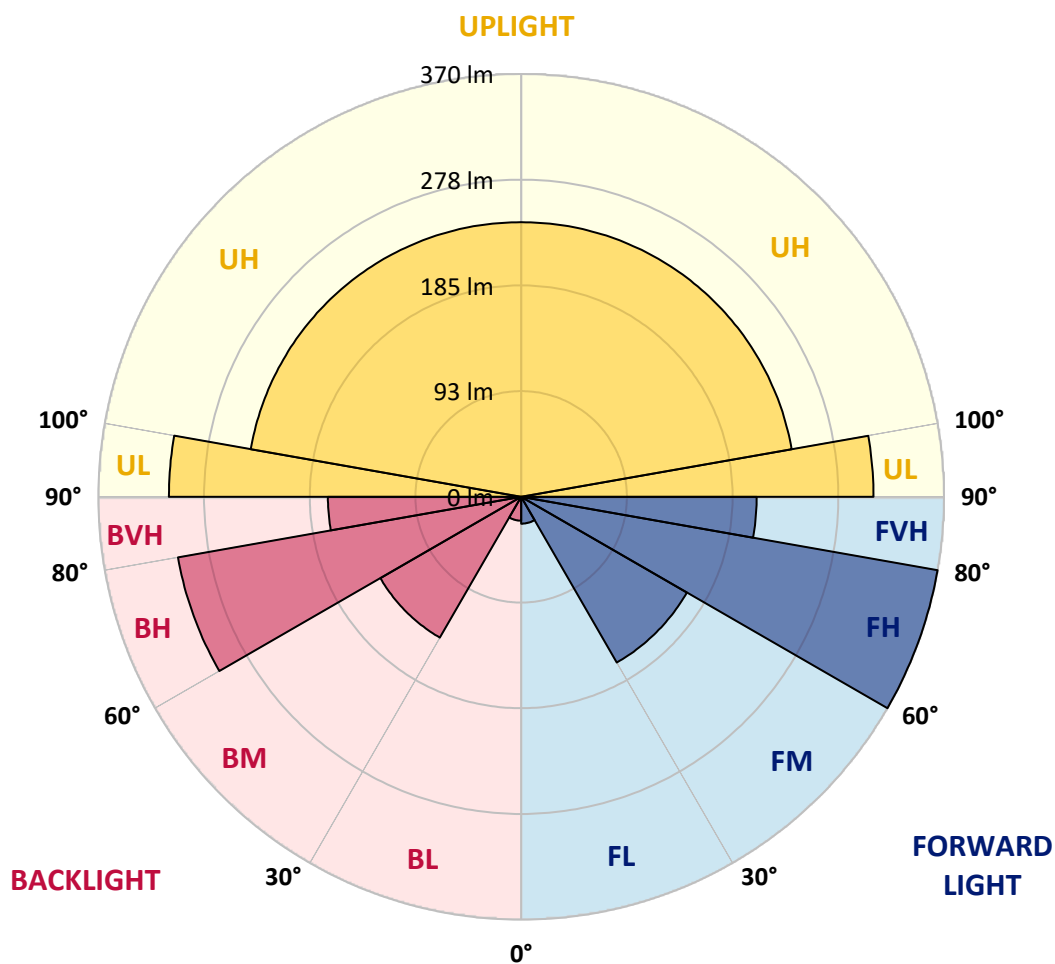
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	23.5	1.2			
FM	(30°-60°)	167.6	8.6			
FH	(60°-80°)	370.3	19.1			G0/660
FVH	(80°-90°)	206.2	10.6			G2/225
BL	(0°-30°)	20.9	1.1	B0/110		
BM	(30°-60°)	142.4	7.3	B0/220		
BH	(60°-80°)	305.2	15.7	B1/500		G1/500
BVH	(80°-90°)	169.2	8.7			G2/225
UL	(90°-100°)	308.5	15.9		U3/500	
UH	(100°-180°)	240.5	12.4		U3/500	

BUG Rating: B1-U3-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
0°	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4
2.5°	28.6	28.9	28.9	29.2	28.6	28.6	28.3	28.0	27.7	27.4	27.1
5°	35.8	35.8	35.8	35.8	35.2	35.5	35.2	34.6	34.0	34.0	33.4
7.5°	41.5	41.5	41.5	41.5	41.2	41.2	40.9	40.6	40.0	39.7	39.4
10°	45.6	45.9	46.2	46.2	45.9	45.6	45.0	44.7	44.4	43.8	43.0
12.5°	49.5	49.8	49.8	49.8	49.5	49.2	48.6	48.0	47.7	47.1	46.5
15°	52.8	52.8	52.8	52.5	52.2	51.9	51.3	51.0	50.4	49.8	49.2
17.5°	55.2	55.5	55.5	55.2	54.6	54.6	53.7	53.7	53.1	52.5	51.9
20°	58.2	58.2	58.2	57.9	57.6	57.3	56.4	56.1	55.8	55.2	54.6
22.5°	61.1	61.1	60.8	60.8	60.3	60.0	59.4	59.1	58.5	57.9	57.6
25°	64.4	64.4	63.8	63.8	63.2	62.6	62.0	61.7	61.1	60.8	60.6
27.5°	66.8	66.8	66.2	65.9	65.6	64.7	64.4	63.8	63.2	62.9	62.6
30°	68.9	68.6	68.0	68.0	67.4	66.5	65.9	65.3	64.7	64.7	64.7
32.5°	70.1	69.8	69.2	68.9	68.0	67.4	66.8	66.2	65.6	65.9	65.9
35°	71.3	71.3	70.4	70.1	69.2	68.3	67.4	66.8	66.5	66.8	67.1
37.5°	73.4	73.1	72.2	71.9	70.7	70.4	69.8	69.5	69.2	69.5	69.5
40°	77.9	77.9	77.0	76.7	75.8	76.1	75.8	76.1	75.5	76.1	75.2
42.5°	86.5	87.1	86.2	85.6	85.0	86.2	87.4	87.1	86.5	86.8	84.7
45°	101.7	102.9	103.2	102.3	100.5	103.8	105.6	105.9	104.4	103.5	100.2
47.5°	124.7	126.5	125.6	125.6	122.6	127.4	129.8	131.2	128.9	127.4	122.0
50°	153.6	156.6	153.6	154.8	149.4	157.8	161.7	162.6	160.5	157.2	150.3
52.5°	189.4	191.8	190.9	190.0	184.3	195.4	202.2	205.8	202.2	197.5	187.0
55°	230.0	229.7	229.1	230.0	224.6	233.6	244.0	246.1	244.9	235.0	223.1
57.5°	263.4	263.7	263.7	263.7	257.1	264.9	274.4	275.9	274.1	265.5	249.7
60°	289.3	290.2	291.4	292.0	285.7	289.3	299.5	299.2	297.4	286.6	273.2
62.5°	311.4	312.9	315.3	315.3	311.4	310.5	319.8	318.6	317.7	307.5	292.0
65°	333.5	335.0	339.7	339.4	335.0	330.8	340.9	340.0	337.9	327.8	309.3
67.5°	352.3	354.4	359.7	360.3	357.0	352.0	358.2	355.8	354.7	343.9	323.6
70°	372.2	375.2	379.4	379.4	371.7	367.8	373.4	372.0	373.4	362.7	339.4
72.5°	387.5	388.7	397.3	398.2	389.3	380.6	387.2	383.6	384.8	373.1	350.2
75°	403.3	404.8	411.6	411.6	399.4	391.6	396.4	394.9	397.0	387.5	360.6
77.5°	409.2	413.1	420.3	418.8	410.1	396.7	401.8	401.2	402.4	390.4	364.2
78°	409.2	414.0	421.5	419.4	411.3	395.8	396.7	396.1	397.0	391.9	366.0
80°	408.0	414.9	419.4	416.7	409.8	392.5	391.9	392.2	394.0	388.7	361.2
82.5°	398.8	406.0	410.7	409.5	403.6	384.8	387.8	391.0	394.9	385.4	357.6
85°	390.4	397.9	400.3	399.4	392.5	373.1	375.5	380.0	378.2	371.4	346.6
87.5°	379.4	386.0	386.9	386.3	380.3	361.8	363.6	366.6	368.4	364.5	337.4
90°	361.8	367.8	369.9	369.9	363.6	347.8	352.0	356.1	359.4	352.0	325.1
92.5°	342.4	347.8	349.9	349.9	344.5	329.0	331.7	337.1	337.6	331.7	306.9
95°	321.8	325.1	329.0	328.4	321.8	306.6	309.3	315.9	316.8	311.4	289.3
97.5°	295.9	297.1	301.9	301.0	294.4	283.4	287.2	293.2	293.8	288.4	267.0
100°	257.4	257.1	261.3	261.3	255.0	248.2	253.5	261.0	260.1	254.7	236.5
102.5°	193.6	190.0	196.0	195.4	193.6	190.9	196.3	203.4	205.2	201.3	182.8
105°	122.9	120.8	122.6	121.4	120.5	115.4	117.5	119.9	118.1	119.6	109.5
107.5°	81.1	79.9	81.1	80.8	79.0	76.7	76.4	77.0	76.7	75.5	69.8



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CATALOG NUMBER: MPB-A2-D-U-SYM

CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	62.3	61.7	62.6	62.3	61.4	60.3	60.0	60.6	60.6	59.7	56.4
112.5°	54.0	53.7	54.6	54.3	53.7	52.8	52.8	53.1	53.4	52.5	50.1
115°	48.6	48.9	49.5	49.5	48.9	47.7	48.0	48.6	48.6	48.0	46.2
117.5°	45.3	45.6	46.2	45.9	45.3	44.7	44.7	45.3	45.9	45.0	43.5
120°	42.7	42.7	43.3	43.0	42.4	42.1	42.4	43.0	43.3	42.4	40.9
122.5°	39.7	40.0	40.3	40.3	39.7	39.7	40.3	40.6	40.9	40.0	38.2
125°	36.4	36.7	37.0	37.0	36.7	37.0	37.3	37.6	38.2	37.3	35.5
127.5°	32.8	33.1	33.4	33.4	33.4	33.7	34.3	34.6	35.2	34.3	32.5
130°	28.6	28.9	29.5	29.2	29.5	30.1	31.0	31.0	31.3	30.7	28.9
132.5°	24.2	24.5	25.1	25.1	25.4	26.2	26.8	26.8	27.1	26.5	25.1
135°	19.4	19.7	20.6	20.6	21.2	21.8	22.4	22.4	22.7	22.1	20.6
137.5°	15.2	15.2	16.1	16.1	16.7	17.0	17.3	17.3	17.6	17.3	16.1
140°	11.9	11.9	12.8	12.5	13.1	13.1	13.1	13.1	13.4	13.1	12.2
142.5°	9.2	9.5	10.1	9.8	10.4	10.4	10.4	10.1	10.7	10.4	9.5
145°	7.2	7.2	7.8	7.5	7.8	8.1	8.1	7.8	8.1	7.8	7.2
147.5°	4.8	4.8	5.4	5.1	5.4	5.7	6.0	5.7	6.0	5.7	5.1
150°	2.4	2.4	3.0	2.7	3.0	3.3	3.6	3.6	3.6	3.3	2.7
152.5°	0.0	0.0	0.3	0.3	0.3	0.6	0.6	0.6	0.9	0.9	0.6
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	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	0.3	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	0.3	0.0	0.0	0.0	0.3	0.3
177.5°	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.3
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°	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4
2.5°	26.8	26.8	27.1	26.8	26.5	26.2	26.0	25.7	25.7	25.1	25.4
5°	33.4	33.1	32.8	32.2	31.9	31.6	31.3	31.0	31.0	31.0	31.3
7.5°	39.1	38.8	37.9	37.0	37.0	36.7	36.4	36.1	35.8	35.2	35.2
10°	42.7	42.4	41.8	41.5	40.9	40.6	40.3	39.7	39.1	37.9	37.9
12.5°	45.9	45.6	44.7	44.4	44.1	43.5	43.0	42.4	41.2	40.3	40.0
15°	48.9	48.3	47.4	47.1	46.5	45.6	45.0	44.4	43.3	42.1	41.8
17.5°	51.3	50.7	50.1	49.5	48.6	47.7	46.8	46.2	45.3	44.4	44.1
20°	54.0	53.4	52.8	51.9	51.0	50.1	49.2	48.3	47.7	46.8	46.8
22.5°	57.0	56.4	55.5	54.9	53.4	52.5	51.3	50.4	49.8	49.5	49.2
25°	60.0	59.4	58.2	57.3	55.8	54.6	53.7	52.5	51.9	52.2	52.2
27.5°	62.3	61.4	60.3	59.4	57.9	56.7	55.5	54.6	54.0	54.3	54.3
30°	64.1	63.5	62.3	61.1	59.7	58.2	57.3	56.1	55.8	56.1	56.4
32.5°	65.6	65.0	63.5	62.6	61.1	59.7	58.5	57.6	57.3	57.6	57.6
35°	66.8	66.5	65.0	63.5	62.3	60.8	60.0	59.1	59.1	59.7	59.4
37.5°	68.9	68.6	67.1	65.6	64.4	63.2	62.6	62.0	62.3	62.6	62.6
40°	74.3	72.5	71.3	69.5	68.3	67.7	67.1	67.1	67.4	67.7	67.7
42.5°	83.2	81.7	79.9	77.6	76.4	75.5	74.6	75.5	76.1	75.8	75.8
45°	97.5	95.7	93.1	89.5	87.4	86.2	86.2	87.4	88.0	87.1	86.5
47.5°	118.4	115.7	112.5	108.3	105.0	103.8	102.9	105.0	105.3	103.2	101.4
50°	145.0	142.6	138.4	133.9	130.9	127.7	125.0	128.0	128.0	123.5	121.7
52.5°	181.4	176.9	172.4	167.3	162.6	157.5	153.9	159.0	158.1	151.5	148.2
55°	216.8	214.5	211.5	202.8	198.4	189.1	184.9	190.3	187.9	178.7	176.3
57.5°	241.6	243.1	240.4	233.6	227.6	216.5	209.1	213.3	209.4	200.1	194.2
60°	261.9	263.4	262.5	254.7	250.9	236.8	226.7	231.8	228.8	218.0	212.4
62.5°	279.8	281.9	281.9	273.8	270.5	251.7	241.3	247.3	243.7	233.3	229.1
65°	297.1	298.6	299.5	291.4	287.5	265.8	253.8	261.6	260.1	249.4	247.3
67.5°	311.1	313.8	315.9	308.4	302.5	281.0	265.5	277.7	272.6	264.0	257.7
70°	326.6	328.4	331.7	325.1	319.5	295.3	275.6	292.3	286.9	277.1	268.7
72.5°	337.4	338.2	345.4	338.2	329.0	306.9	286.6	305.1	295.9	282.8	275.3
75°	347.2	348.7	357.9	348.7	341.8	317.1	293.8	315.3	306.6	291.4	283.7
77.5°	350.5	351.4	361.2	351.1	341.5	318.9	298.6	317.7	308.4	293.2	285.5
78°	353.2	353.8	363.3	353.2	343.3	319.2	299.2	318.9	309.9	295.3	286.9
80°	348.1	350.2	358.8	349.9	339.7	316.2	295.6	316.5	306.3	289.9	282.5
82.5°	343.0	344.5	351.7	342.4	333.5	311.4	290.8	310.8	301.9	284.6	278.3
85°	332.0	335.0	343.3	335.0	324.8	303.0	285.5	304.5	294.1	276.8	269.3
87.5°	323.0	326.6	334.1	328.1	318.0	295.6	277.1	297.1	287.2	270.2	263.1
90°	310.2	312.9	319.2	312.3	302.8	282.2	267.0	285.2	277.4	261.9	255.3
92.5°	292.9	295.6	301.9	294.7	286.3	265.8	251.1	269.3	259.2	246.4	239.2
95°	275.9	278.3	284.0	278.3	270.8	251.1	237.4	255.6	245.2	232.7	227.3
97.5°	254.4	256.2	261.3	255.0	248.8	230.0	217.1	233.8	224.3	214.2	207.6
100°	223.4	224.0	226.7	219.2	216.5	199.8	190.0	204.3	196.3	189.1	182.8
102.5°	172.4	166.7	166.4	162.9	158.7	145.3	141.7	149.4	150.0	144.1	140.5
105°	103.5	99.3	98.4	96.6	92.5	85.9	83.5	91.6	90.7	88.9	85.9
107.5°	66.8	65.6	65.6	64.1	61.7	57.9	56.1	59.4	58.2	57.3	56.1



REPORT NUMBER: P314624

CATALOG NUMBER: MPB-A2-D-U-SYM

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	54.6	54.0	54.0	52.5	51.3	48.0	46.5	48.6	47.7	47.1	45.9
112.5°	48.6	48.0	48.0	47.1	45.9	43.3	42.4	44.1	43.0	42.1	41.5
115°	44.7	44.4	44.1	43.3	42.4	40.0	39.1	40.9	40.0	39.1	38.8
117.5°	42.1	41.5	41.5	40.6	39.7	37.6	37.0	38.2	37.3	36.4	36.1
120°	39.4	39.1	38.8	38.2	37.3	35.2	34.6	35.5	34.9	34.0	33.4
122.5°	37.0	36.7	36.1	35.5	34.3	32.5	32.2	32.8	31.9	31.0	30.7
125°	34.3	33.7	33.4	32.5	31.3	29.8	29.5	29.8	28.9	28.0	27.7
127.5°	31.6	30.7	30.1	29.2	28.0	26.5	26.5	26.8	26.2	25.4	25.1
130°	28.0	27.4	26.5	25.7	24.5	23.3	23.3	23.6	23.0	22.4	22.4
132.5°	24.2	23.3	22.7	21.8	20.9	20.0	20.0	20.0	19.7	19.4	19.1
135°	20.0	19.4	18.5	17.9	17.0	16.4	16.4	16.7	16.4	15.8	15.8
137.5°	15.5	14.9	14.3	14.0	13.4	12.8	12.8	13.1	12.8	12.5	12.5
140°	11.9	11.3	11.0	10.7	10.1	9.8	9.8	9.8	9.8	9.5	9.5
142.5°	9.2	8.9	8.7	8.4	8.1	7.5	7.8	7.8	7.8	7.5	7.5
145°	6.9	6.6	6.3	6.0	6.0	5.7	5.7	5.7	5.7	5.7	5.4
147.5°	4.8	4.5	4.2	3.9	3.9	3.9	3.9	3.9	3.9	3.6	3.6
150°	2.7	2.4	2.1	1.8	1.8	1.8	1.8	2.1	1.8	1.8	1.8
152.5°	0.6	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	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	0.3	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)