

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: P314612

Luminaire Tested: **MPB-A2-D-U-SYM-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314612
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-7027
Description: BRECKENRIDGE POST TOP LUMINAIRE
(1) 70 CRI, 2700K LIGHT ENGINE. SYMMETRIC DISTRIBUTION.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1801 lumens
Efficiency: N/A
Efficacy: 102.3 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

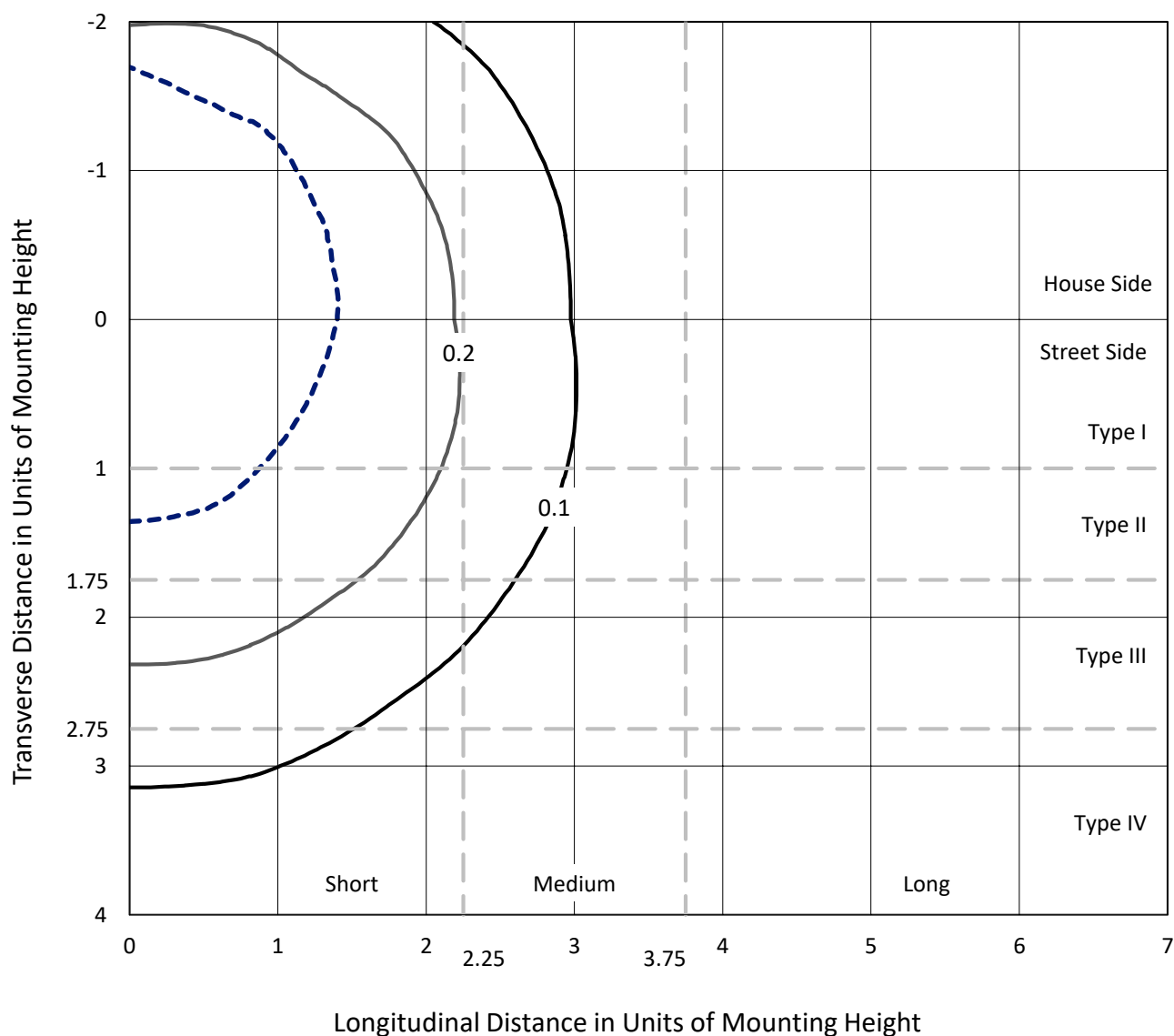


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

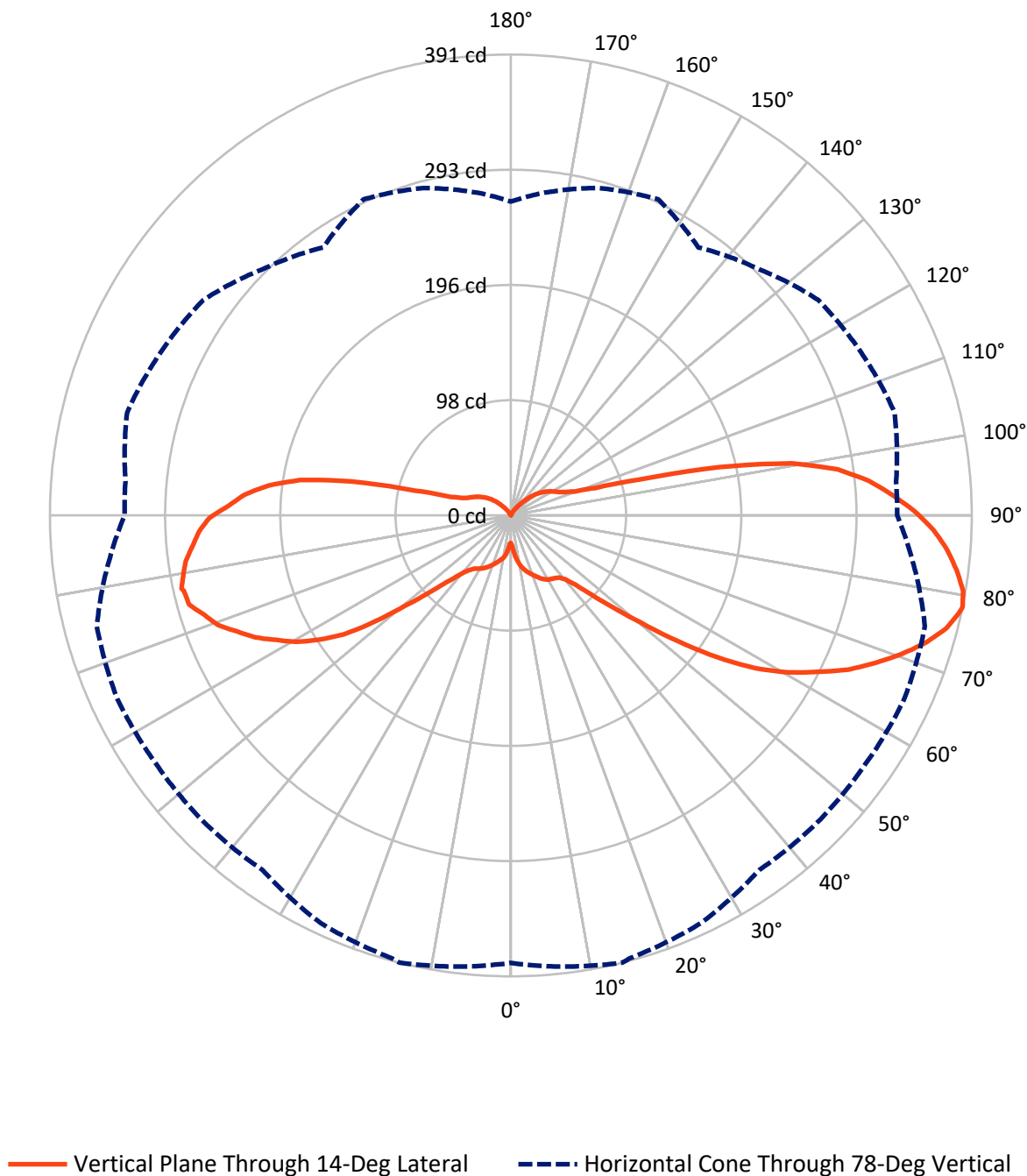


Based on 10 foot mounting height. Maximum calculated value = 0.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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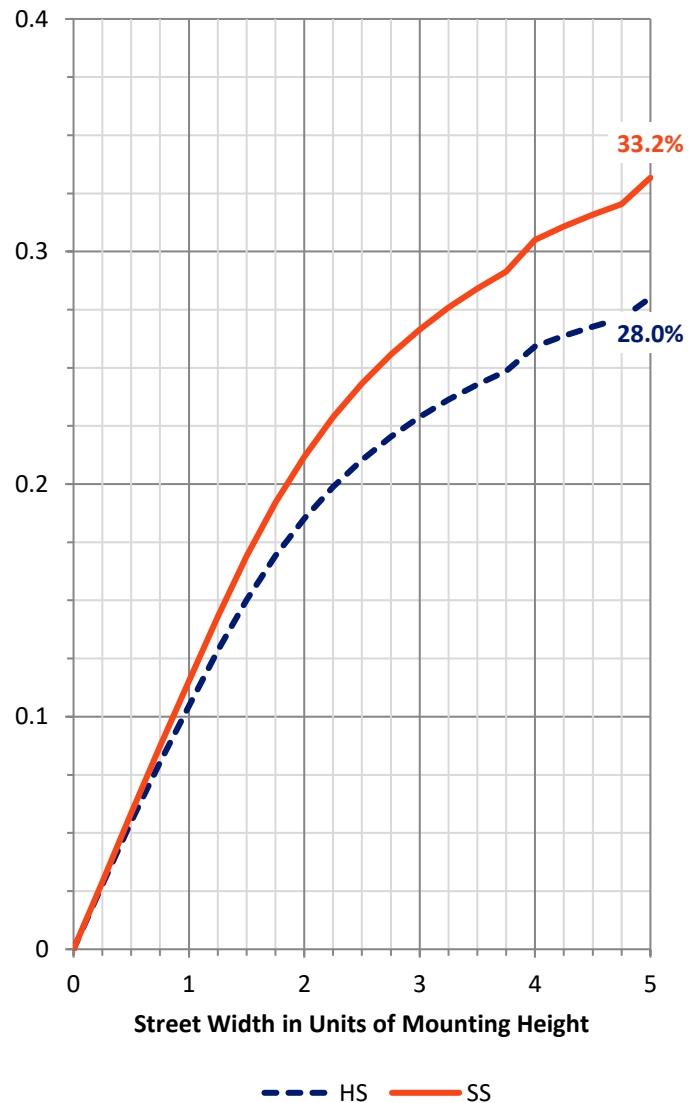
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	592.0	223.3	815.3
	% Fixture	32.9	12.4	45.3
Street Side	Lumens	712.6	273.2	985.7
	% Fixture	39.6	15.2	54.7
Total	Lumens	1304.6	496.4	1801.0
	% Fixture	72.4	27.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.2	0.2
10°-20°	12.8	0.7
20°-30°	25.2	1.4
30°-40°	38.5	2.1
40°-50°	73.0	4.1
50°-60°	176.2	9.8
60°-70°	278.8	15.5
70°-80°	348.2	19.3
80°-90°	348.5	19.4
90°-100°	286.4	15.9
100°-110°	121.3	6.7
110°-120°	42.2	2.3
120°-130°	28.2	1.6
130°-140°	14.0	0.8
140°-150°	4.1	0.2
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1304.6	72.4
0°-180°	1801.0	100.0

Coefficient of Utilization



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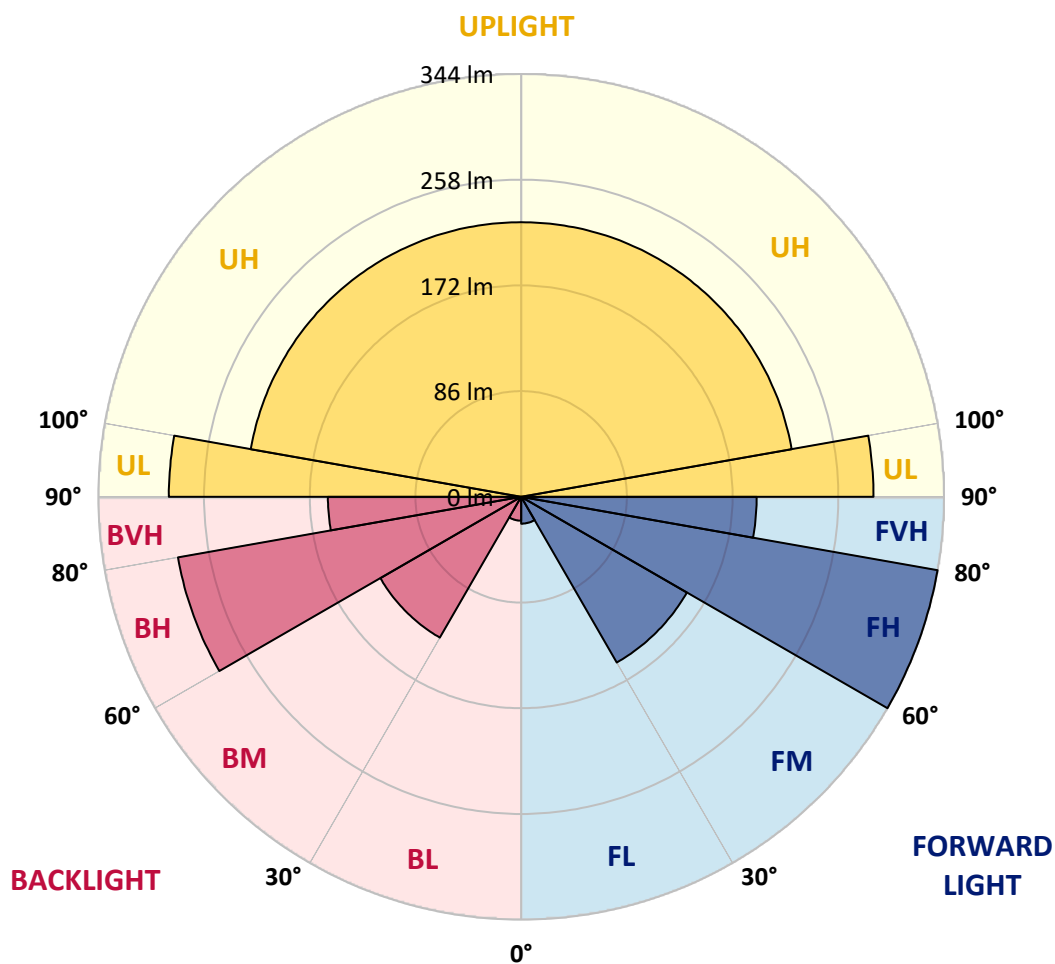
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	21.8	1.2			
FM	(30°-60°)	155.6	8.6			
FH	(60°-80°)	343.7	19.1			G0/660
FVH	(80°-90°)	191.4	10.6			G2/225
BL	(0°-30°)	19.4	1.1	B0/110		
BM	(30°-60°)	132.2	7.3	B0/220		
BH	(60°-80°)	283.3	15.7	B1/500		G1/500
BVH	(80°-90°)	157.1	8.7			G2/225
UL	(90°-100°)	286.4	15.9		U3/500	
UH	(100°-180°)	223.3	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°	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5
2.5°	26.6	26.9	26.9	27.1	26.6	26.6	26.3	26.0	25.8	25.5	25.2
5°	33.2	33.2	33.2	33.2	32.7	33.0	32.7	32.1	31.6	31.6	31.0
7.5°	38.5	38.5	38.5	38.5	38.2	38.2	37.9	37.7	37.1	36.8	36.6
10°	42.4	42.6	42.9	42.9	42.6	42.4	41.8	41.5	41.3	40.7	39.9
12.5°	46.0	46.2	46.2	46.2	46.0	45.7	45.1	44.6	44.3	43.8	43.2
15°	49.0	49.0	49.0	48.7	48.5	48.2	47.6	47.4	46.8	46.2	45.7
17.5°	51.2	51.5	51.5	51.2	50.7	50.7	49.8	49.8	49.3	48.7	48.2
20°	54.0	54.0	54.0	53.7	53.4	53.2	52.3	52.1	51.8	51.2	50.7
22.5°	56.8	56.8	56.5	56.5	55.9	55.7	55.1	54.8	54.3	53.7	53.4
25°	59.8	59.8	59.3	59.3	58.7	58.2	57.6	57.3	56.8	56.5	56.2
27.5°	62.0	62.0	61.2	61.2	60.9	60.1	59.8	59.3	58.7	58.4	58.2
30°	64.0	63.7	63.1	63.1	62.6	61.7	61.2	60.6	60.1	60.1	60.1
32.5°	65.1	64.8	64.0	64.0	63.1	62.6	62.0	61.5	60.9	61.2	61.2
35°	66.2	66.2	65.1	64.2	63.4	62.6	62.0	61.7	62.0	62.0	62.3
37.5°	68.1	67.8	66.7	65.6	65.3	64.8	64.5	64.2	64.5	64.5	64.5
40°	72.3	72.3	71.2	70.3	70.6	70.3	70.6	70.1	70.6	69.8	69.8
42.5°	80.3	80.9	79.5	78.9	80.0	81.1	80.9	80.3	80.6	78.6	78.6
45°	94.4	95.5	95.0	93.3	96.4	98.0	98.3	96.9	96.1	93.0	93.0
47.5°	115.7	117.4	116.6	113.8	118.2	120.5	121.8	119.6	118.2	113.3	113.3
50°	142.6	145.4	143.7	138.7	146.5	150.1	150.9	149.0	145.9	139.6	139.6
52.5°	175.8	178.1	176.4	171.1	181.4	187.7	191.1	187.7	183.3	173.6	173.6
55°	213.5	213.2	213.5	208.5	216.8	226.5	228.4	227.3	218.2	207.1	207.1
57.5°	244.5	244.8	244.8	238.7	245.9	254.8	256.1	254.5	246.4	231.8	231.8
60°	268.6	269.4	271.1	265.3	268.6	278.0	277.7	276.1	266.1	253.6	253.6
62.5°	289.1	290.5	292.7	289.1	288.3	296.8	295.7	294.9	285.5	271.1	271.1
65°	309.6	311.0	315.1	311.0	307.1	316.5	315.7	313.7	304.3	287.2	287.2
67.5°	327.0	329.0	334.5	331.5	326.7	332.6	330.3	329.2	319.3	300.4	300.4
70°	345.6	348.3	352.2	345.0	341.4	346.7	345.3	346.7	336.7	315.1	315.1
72.5°	359.7	360.8	369.7	361.4	353.3	359.4	356.1	357.2	346.4	325.1	325.1
75°	374.4	375.8	382.1	370.8	363.6	368.0	366.6	368.6	359.7	334.8	334.8
77.5°	379.9	383.5	388.8	380.7	368.3	373.0	372.4	373.5	362.5	338.1	338.1
78°	379.9	384.3	389.3	381.9	367.5	368.3	367.7	368.6	363.9	339.8	339.8
80°	378.8	385.2	386.8	380.5	364.4	363.9	364.1	365.8	360.8	335.3	335.3
82.5°	370.2	376.9	380.2	374.7	357.2	360.0	363.0	366.6	357.8	332.0	332.0
85°	362.5	369.4	370.8	364.4	346.4	348.6	352.8	351.1	344.7	321.8	321.8
87.5°	352.2	358.3	358.6	353.1	335.9	337.5	340.3	342.0	338.4	313.2	313.2
90°	335.9	341.4	343.4	337.5	322.9	326.7	330.6	333.7	326.7	301.8	301.8
92.5°	317.9	322.9	324.8	319.8	305.4	307.9	312.9	313.5	307.9	284.9	284.9
95°	298.8	301.8	304.9	298.8	284.7	287.2	293.2	294.1	289.1	268.6	268.6
97.5°	274.7	275.8	279.4	273.3	263.1	266.7	272.2	272.8	267.8	247.8	247.8
100°	239.0	238.7	242.6	236.8	230.4	235.4	242.3	241.5	236.5	219.6	219.6
102.5°	179.7	176.4	181.4	179.7	177.2	182.2	188.8	190.5	186.9	169.7	169.7
105°	114.1	112.1	112.7	111.9	107.2	109.1	111.3	109.7	111.0	101.6	101.6
107.5°	75.3	74.2	75.0	73.4	71.2	70.9	71.4	71.2	70.1	64.8	64.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	57.9	57.3	58.2	57.9	57.0	55.9	55.7	56.2	56.2	55.4	52.3
112.5°	50.1	49.8	50.7	50.4	49.8	49.0	49.0	49.3	49.6	48.7	46.5
115°	45.1	45.4	46.0	46.0	45.4	44.3	44.6	45.1	45.1	44.6	42.9
117.5°	42.1	42.4	42.9	42.6	42.1	41.5	41.5	42.1	42.6	41.8	40.4
120°	39.6	39.6	40.2	39.9	39.3	39.0	39.3	39.9	40.2	39.3	37.9
122.5°	36.8	37.1	37.4	37.4	36.8	36.8	37.4	37.7	37.9	37.1	35.4
125°	33.8	34.1	34.3	34.3	34.1	34.3	34.6	34.9	35.4	34.6	33.0
127.5°	30.5	30.7	31.0	31.0	31.0	31.3	31.8	32.1	32.7	31.8	30.2
130°	26.6	26.9	27.4	27.1	27.4	28.0	28.8	28.8	29.1	28.5	26.9
132.5°	22.4	22.7	23.3	23.3	23.5	24.4	24.9	24.9	25.2	24.6	23.3
135°	18.0	18.3	19.1	19.1	19.7	20.2	20.8	20.8	21.0	20.5	19.1
137.5°	14.1	14.1	15.0	15.0	15.5	15.8	16.1	16.1	16.3	16.1	15.0
140°	11.1	11.1	11.9	11.6	12.2	12.2	12.2	12.2	12.5	12.2	11.4
142.5°	8.6	8.9	9.4	9.1	9.7	9.7	9.7	9.4	10.0	9.7	8.9
145°	6.6	6.6	7.2	6.9	7.2	7.5	7.5	7.2	7.5	7.2	6.6
147.5°	4.4	4.4	5.0	4.7	5.0	5.3	5.5	5.3	5.5	5.3	4.7
150°	2.2	2.2	2.8	2.5	2.8	3.0	3.3	3.3	3.3	3.0	2.5
152.5°	0.0	0.0	0.3	0.3	0.3	0.6	0.6	0.6	0.8	0.8	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°	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5
2.5°	24.9	24.9	25.2	24.9	24.6	24.4	24.1	23.8	23.8	23.3	23.5
5°	31.0	30.7	30.5	29.9	29.6	29.4	29.1	28.8	28.8	28.8	29.1
7.5°	36.3	36.0	35.2	34.3	34.3	34.1	33.8	33.5	33.2	32.7	32.7
10°	39.6	39.3	38.8	38.5	37.9	37.7	37.4	36.8	36.3	35.2	35.2
12.5°	42.6	42.4	41.5	41.3	41.0	40.4	39.9	39.3	38.2	37.4	37.1
15°	45.4	44.9	44.0	43.8	43.2	42.4	41.8	41.3	40.2	39.0	38.8
17.5°	47.6	47.1	46.5	46.0	45.1	44.3	43.5	42.9	42.1	41.3	41.0
20°	50.1	49.6	49.0	48.2	47.4	46.5	45.7	44.9	44.3	43.5	43.5
22.5°	52.9	52.3	51.5	51.0	49.6	48.7	47.6	46.8	46.2	46.0	45.7
25°	55.7	55.1	54.0	53.2	51.8	50.7	49.8	48.7	48.2	48.5	48.5
27.5°	57.9	57.0	55.9	55.1	53.7	52.6	51.5	50.7	50.1	50.4	50.4
30°	59.5	59.0	57.9	56.8	55.4	54.0	53.2	52.1	51.8	52.1	52.3
32.5°	60.9	60.4	59.0	58.2	56.8	55.4	54.3	53.4	53.2	53.4	53.4
35°	62.0	61.7	60.4	59.0	57.9	56.5	55.7	54.8	54.8	55.4	55.1
37.5°	64.0	63.7	62.3	60.9	59.8	58.7	58.2	57.6	57.9	58.2	58.2
40°	68.9	67.3	66.2	64.5	63.4	62.9	62.3	62.3	62.6	62.9	62.9
42.5°	77.3	75.9	74.2	72.0	70.9	70.1	69.2	70.1	70.6	70.3	70.3
45°	90.5	88.9	86.4	83.1	81.1	80.0	80.0	81.1	81.7	80.9	80.3
47.5°	109.9	107.4	104.4	100.5	97.5	96.4	95.5	97.5	97.7	95.8	94.1
50°	134.6	132.4	128.5	124.3	121.6	118.5	116.0	118.8	118.8	114.6	113.0
52.5°	168.4	164.2	160.1	155.3	150.9	146.2	142.9	147.6	146.8	140.7	137.6
55°	201.3	199.1	196.3	188.3	184.1	175.6	171.7	176.7	174.5	165.9	163.7
57.5°	224.3	225.7	223.2	216.8	211.3	201.0	194.1	198.0	194.4	185.8	180.3
60°	243.1	244.5	243.7	236.5	232.9	219.9	210.4	215.2	212.4	202.4	197.2
62.5°	259.7	261.7	261.7	254.2	251.2	233.7	224.0	229.6	226.2	216.5	212.7
65°	275.8	277.2	278.0	270.5	266.9	246.7	235.6	242.8	241.5	231.5	229.6
67.5°	288.8	291.3	293.2	286.3	280.8	260.8	246.4	257.8	253.1	245.1	239.2
70°	303.2	304.9	307.9	301.8	296.6	274.1	255.9	271.4	266.4	257.2	249.5
72.5°	313.2	314.0	320.7	314.0	305.4	284.9	266.1	283.3	274.7	262.5	255.6
75°	322.3	323.7	332.3	323.7	317.3	294.4	272.8	292.7	284.7	270.5	263.3
77.5°	325.4	326.2	335.3	325.9	317.1	296.0	277.2	294.9	286.3	272.2	265.0
78°	327.9	328.4	337.3	327.9	318.7	296.3	277.7	296.0	287.7	274.1	266.4
80°	323.1	325.1	333.1	324.8	315.4	293.5	274.4	293.8	284.4	269.2	262.2
82.5°	318.4	319.8	326.5	317.9	309.6	289.1	270.0	288.5	280.2	264.2	258.4
85°	308.2	311.0	318.7	311.0	301.6	281.3	265.0	282.7	273.0	257.0	250.0
87.5°	299.9	303.2	310.1	304.6	295.2	274.4	257.2	275.8	266.7	250.9	244.2
90°	288.0	290.5	296.3	289.9	281.1	262.0	247.8	264.7	257.5	243.1	237.0
92.5°	271.9	274.4	280.2	273.6	265.8	246.7	233.2	250.0	240.6	228.7	222.1
95°	256.1	258.4	263.6	258.4	251.4	233.2	220.4	237.3	227.6	216.0	211.0
97.5°	236.2	237.9	242.6	236.8	230.9	213.5	201.6	217.1	208.2	198.8	192.7
100°	207.4	208.0	210.4	203.5	201.0	185.5	176.4	189.7	182.2	175.6	169.7
102.5°	160.1	154.8	154.5	151.2	147.3	134.9	131.5	138.7	139.3	133.7	130.4
105°	96.1	92.2	91.4	89.7	85.8	79.7	77.5	85.0	84.2	82.5	79.7
107.5°	62.0	60.9	60.9	59.5	57.3	53.7	52.1	55.1	54.0	53.2	52.1



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CATALOG NUMBER: MPB-A2-D-U-SYM-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	50.7	50.1	50.1	48.7	47.6	44.6	43.2	45.1	44.3	43.8	42.6
112.5°	45.1	44.6	44.6	43.8	42.6	40.2	39.3	41.0	39.9	39.0	38.5
115°	41.5	41.3	41.0	40.2	39.3	37.1	36.3	37.9	37.1	36.3	36.0
117.5°	39.0	38.5	38.5	37.7	36.8	34.9	34.3	35.4	34.6	33.8	33.5
120°	36.6	36.3	36.0	35.4	34.6	32.7	32.1	33.0	32.4	31.6	31.0
122.5°	34.3	34.1	33.5	33.0	31.8	30.2	29.9	30.5	29.6	28.8	28.5
125°	31.8	31.3	31.0	30.2	29.1	27.7	27.4	27.7	26.9	26.0	25.8
127.5°	29.4	28.5	28.0	27.1	26.0	24.6	24.6	24.9	24.4	23.5	23.3
130°	26.0	25.5	24.6	23.8	22.7	21.6	21.6	21.9	21.3	20.8	20.8
132.5°	22.4	21.6	21.0	20.2	19.4	18.6	18.6	18.6	18.3	18.0	17.7
135°	18.6	18.0	17.2	16.6	15.8	15.2	15.2	15.5	15.2	14.7	14.7
137.5°	14.4	13.8	13.3	13.0	12.5	11.9	11.9	12.2	11.9	11.6	11.6
140°	11.1	10.5	10.2	10.0	9.4	9.1	9.1	9.1	9.1	8.9	8.9
142.5°	8.6	8.3	8.0	7.8	7.5	6.9	7.2	7.2	7.2	6.9	6.9
145°	6.4	6.1	5.8	5.5	5.5	5.3	5.3	5.3	5.3	5.3	5.0
147.5°	4.4	4.2	3.9	3.6	3.6	3.6	3.6	3.6	3.6	3.3	3.3
150°	2.5	2.2	1.9	1.7	1.7	1.7	1.7	1.9	1.7	1.7	1.7
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)