

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: P314626

Luminaire Tested: **MPB-A4-D-U-SYM**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314626
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-A4-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: 4026 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.58')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U4 - G3

Input Watts (W): 39.1
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



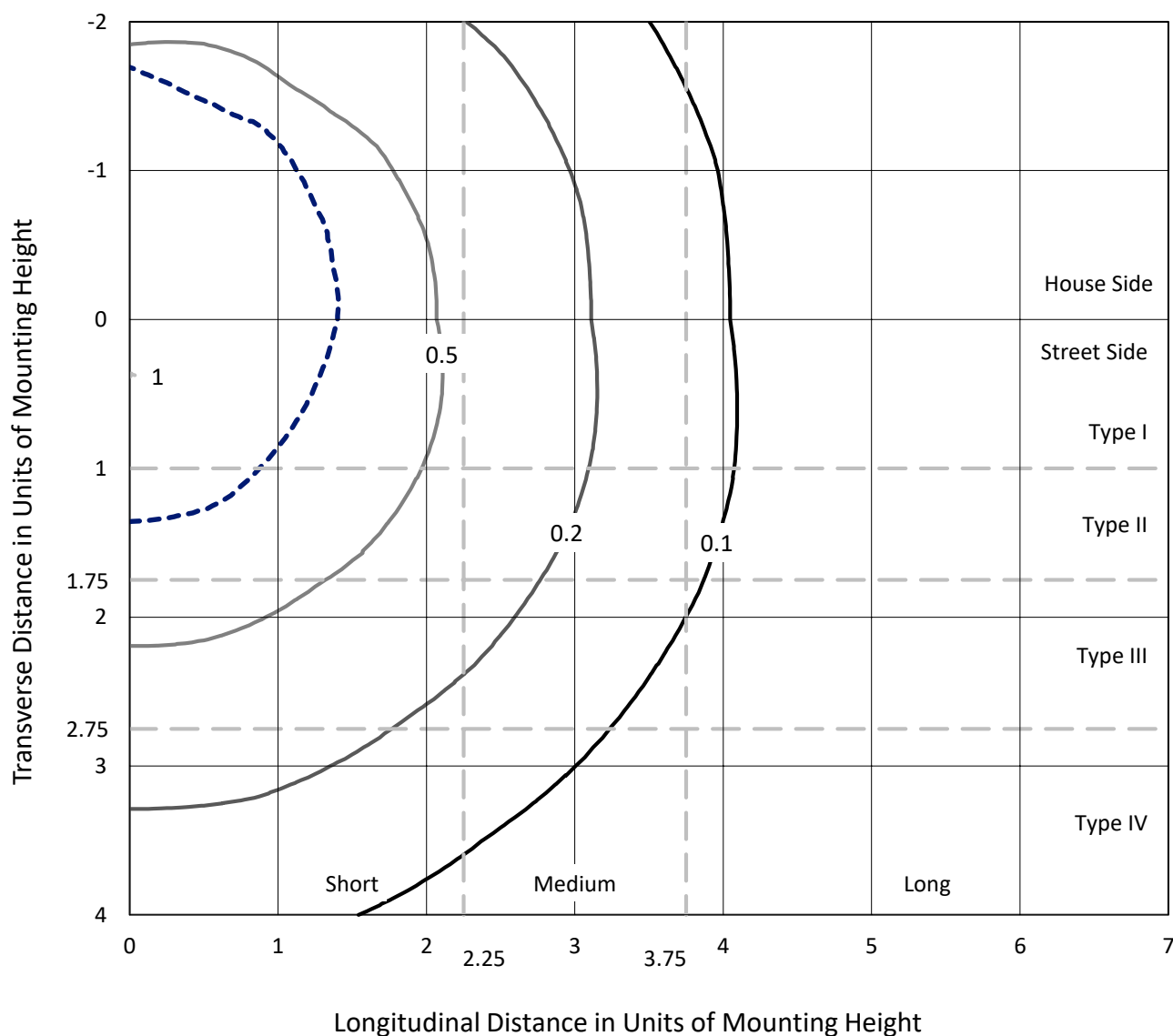
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

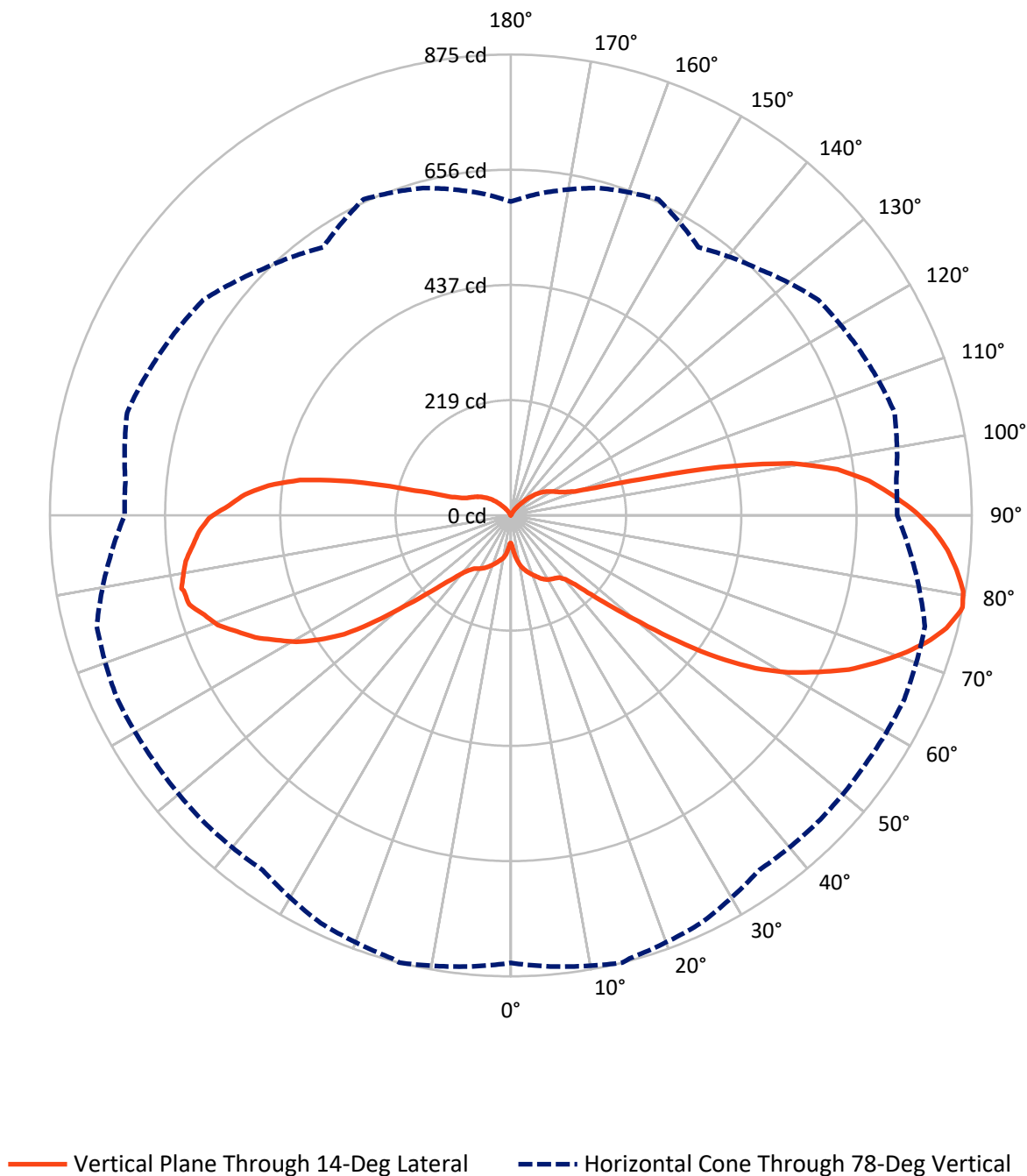


Based on 10 foot mounting height. Maximum calculated value = 1 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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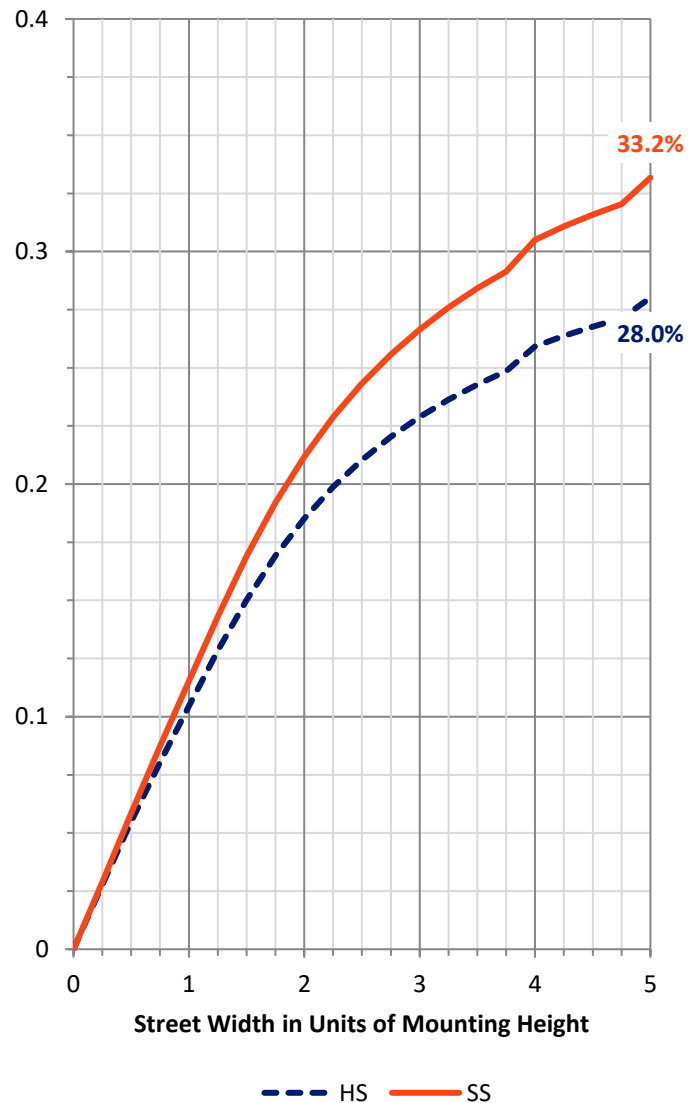
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1323.4	499.1	1822.4
	% Fixture	32.9	12.4	45.3
Street Side	Lumens	1592.9	610.7	2203.6
	% Fixture	39.6	15.2	54.7
Total	Lumens	2916.2	1109.8	4026.0
	% Fixture	72.4	27.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.2	0.2
10°-20°	28.7	0.7
20°-30°	56.3	1.4
30°-40°	86.1	2.1
40°-50°	163.3	4.1
50°-60°	393.8	9.8
60°-70°	623.3	15.5
70°-80°	778.4	19.3
80°-90°	779.1	19.4
90°-100°	640.2	15.9
100°-110°	271.1	6.7
110°-120°	94.4	2.3
120°-130°	62.9	1.6
130°-140°	31.4	0.8
140°-150°	9.2	0.2
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2916.2	72.4
0°-180°	4026.0	100.0

Coefficient of Utilization



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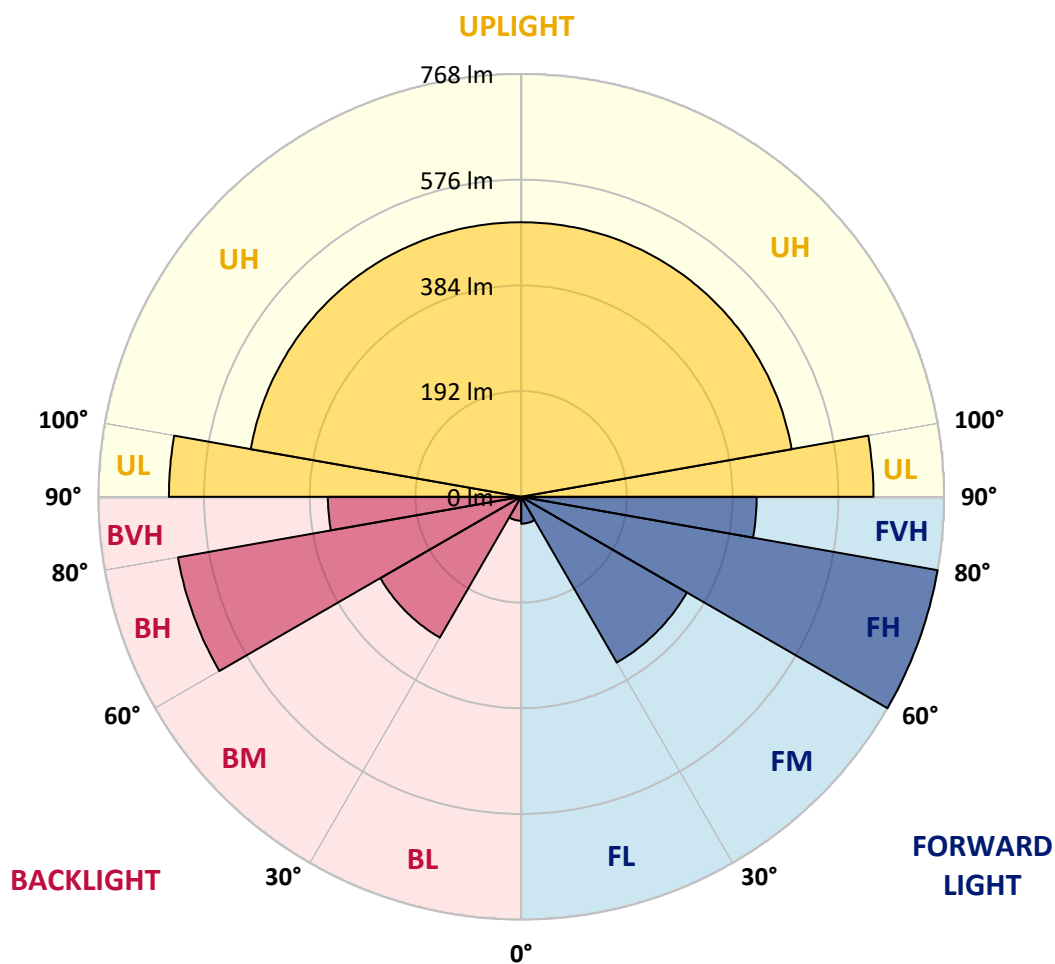
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	48.8	1.2			
FM	(30°-60°)	347.8	8.6			
FH	(60°-80°)	768.4	19.1			G1/1800
FVH	(80°-90°)	427.9	10.6			G3/500
BL	(0°-30°)	43.4	1.1	B0/110		
BM	(30°-60°)	295.5	7.3	B1/1000		
BH	(60°-80°)	633.3	15.7	B2/1000		G2/1000
BVH	(80°-90°)	351.2	8.7			G3/500
UL	(90°-100°)	640.2	15.9		U4/1000	
UH	(100°-180°)	499.1	12.4		U3/500	

BUG Rating: B2-U4-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
0°	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6
2.5°	59.4	60.0	60.0	60.7	59.4	59.4	58.8	58.2	57.6	56.9	56.3
5°	74.3	74.3	74.3	74.3	73.0	73.7	73.0	71.8	70.6	70.6	69.3
7.5°	86.0	86.0	86.0	86.0	85.4	85.4	84.8	84.2	82.9	82.3	81.7
10°	94.7	95.3	95.9	95.9	95.3	94.7	93.5	92.9	92.2	91.0	89.1
12.5°	102.8	103.4	103.4	103.4	102.8	102.1	100.9	99.7	99.0	97.8	96.6
15°	109.6	109.6	109.6	108.9	108.3	107.7	106.5	105.8	104.6	103.4	102.1
17.5°	114.5	115.1	115.1	114.5	113.3	113.3	111.4	111.4	110.2	108.9	107.7
20°	120.7	120.7	120.7	120.1	119.5	118.8	117.0	116.4	115.8	114.5	113.3
22.5°	126.9	126.9	126.3	126.3	125.0	124.4	123.2	122.6	121.3	120.1	119.5
25°	133.7	133.7	132.5	132.5	131.2	130.0	128.8	128.1	126.9	126.3	125.7
27.5°	138.7	138.7	137.4	136.8	136.2	134.3	133.7	132.5	131.2	130.6	130.0
30°	143.0	142.4	141.1	141.1	139.9	138.0	136.8	135.6	134.3	134.3	134.3
32.5°	145.5	144.8	143.6	143.0	141.1	139.9	138.7	137.4	136.2	136.8	136.8
35°	147.9	147.9	146.1	145.5	143.6	141.8	139.9	138.7	138.0	138.7	139.3
37.5°	152.3	151.7	149.8	149.2	146.7	146.1	144.8	144.2	143.6	144.2	144.2
40°	161.6	161.6	159.7	159.1	157.2	157.8	157.2	157.8	156.6	157.8	156.0
42.5°	179.5	180.7	178.9	177.7	176.4	178.9	181.4	180.7	179.5	180.1	175.8
45°	211.1	213.6	214.2	212.3	208.6	215.4	219.1	219.7	216.7	214.8	208.0
47.5°	258.7	262.5	260.6	260.6	254.4	264.3	269.3	272.4	267.4	264.3	253.2
50°	318.8	325.0	318.8	321.3	310.1	327.5	335.5	337.4	333.0	326.2	312.0
52.5°	393.1	398.0	396.2	394.3	382.5	405.4	419.7	427.1	419.7	409.8	388.1
55°	477.3	476.6	475.4	477.3	466.1	484.7	506.3	510.7	508.2	487.8	463.0
57.5°	546.6	547.2	547.2	547.2	533.6	549.7	569.5	572.6	568.9	550.9	518.1
60°	600.4	602.3	604.8	606.0	593.0	600.4	621.5	620.9	617.1	594.9	567.0
62.5°	646.2	649.3	654.3	654.3	646.2	644.4	663.6	661.1	659.2	638.2	606.0
65°	692.0	695.1	705.0	704.4	695.1	686.5	707.5	705.7	701.3	680.3	641.9
67.5°	731.0	735.4	746.5	747.8	740.9	730.4	743.4	738.5	736.0	713.7	671.6
70°	772.5	778.7	787.4	787.4	771.3	763.2	775.0	771.9	775.0	752.7	704.4
72.5°	804.1	806.6	824.5	826.4	807.8	789.8	803.5	796.0	798.5	774.4	726.7
75°	836.9	840.0	854.2	854.2	828.8	812.7	822.7	819.6	823.9	804.1	748.4
77.5°	849.3	857.3	872.2	869.1	851.1	823.3	833.8	832.6	835.0	810.3	755.8
78°	849.3	859.2	874.6	870.3	853.6	821.4	823.3	822.0	823.9	813.4	759.5
80°	846.8	861.0	870.3	864.7	850.5	814.6	813.4	814.0	817.7	806.6	749.6
82.5°	827.6	842.5	852.4	849.9	837.5	798.5	804.7	811.5	819.6	799.8	742.2
85°	810.3	825.7	830.7	828.8	814.6	774.4	779.3	788.6	784.9	770.7	719.3
87.5°	787.4	801.0	802.8	801.6	789.2	750.8	754.6	760.8	764.5	756.4	700.1
90°	750.8	763.2	767.6	767.6	754.6	721.8	730.4	739.1	745.9	730.4	674.7
92.5°	710.6	721.8	726.1	726.1	714.9	682.8	688.3	699.5	700.7	688.3	637.0
95°	667.9	674.7	682.8	681.5	667.9	636.3	641.9	655.5	657.4	646.2	600.4
97.5°	614.0	616.5	626.4	624.6	611.0	588.1	596.1	608.5	609.7	598.6	554.0
100°	534.2	533.6	542.2	542.2	529.2	515.0	526.2	541.6	539.8	528.6	490.9
102.5°	401.7	394.3	406.7	405.4	401.7	396.2	407.3	422.2	425.9	417.8	379.4
105°	255.0	250.7	254.4	251.9	250.1	239.6	243.9	248.8	245.1	248.2	227.2
107.5°	168.4	165.9	168.4	167.7	164.0	159.1	158.5	159.7	159.1	156.6	144.8



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CATALOG NUMBER: MPB-A4-D-U-SYM

CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	129.4	128.1	130.0	129.4	127.5	125.0	124.4	125.7	125.7	123.8	117.0
112.5°	112.0	111.4	113.3	112.7	111.4	109.6	109.6	110.2	110.8	108.9	104.0
115°	100.9	101.5	102.8	102.8	101.5	99.0	99.7	100.9	100.9	99.7	95.9
117.5°	94.1	94.7	95.9	95.3	94.1	92.9	92.9	94.1	95.3	93.5	90.4
120°	88.5	88.5	89.8	89.1	87.9	87.3	87.9	89.1	89.8	87.9	84.8
122.5°	82.3	82.9	83.6	83.6	82.3	82.3	83.6	84.2	84.8	82.9	79.2
125°	75.5	76.1	76.8	76.8	76.1	76.8	77.4	78.0	79.2	77.4	73.7
127.5°	68.1	68.7	69.3	69.3	69.3	69.9	71.2	71.8	73.0	71.2	67.5
130°	59.4	60.0	61.3	60.7	61.3	62.5	64.4	64.4	65.0	63.8	60.0
132.5°	50.1	50.8	52.0	52.0	52.6	54.5	55.7	55.7	56.3	55.1	52.0
135°	40.2	40.9	42.7	42.7	43.9	45.2	46.4	46.4	47.0	45.8	42.7
137.5°	31.6	31.6	33.4	33.4	34.7	35.3	35.9	35.9	36.5	35.9	33.4
140°	24.8	24.8	26.6	26.0	27.2	27.2	27.2	27.2	27.9	27.2	25.4
142.5°	19.2	19.8	21.0	20.4	21.7	21.7	21.7	21.0	22.3	21.7	19.8
145°	14.9	14.9	16.1	15.5	16.1	16.7	16.7	16.1	16.7	16.1	14.9
147.5°	9.9	9.9	11.1	10.5	11.1	11.8	12.4	11.8	12.4	11.8	10.5
150°	5.0	5.0	6.2	5.6	6.2	6.8	7.4	7.4	7.4	6.8	5.6
152.5°	0.0	0.0	0.6	0.6	0.6	1.2	1.2	1.2	1.9	1.9	1.2
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	0.6	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	0.6	0.0	0.0	0.0	0.6	0.6
177.5°	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.6
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°	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6
2.5°	55.7	55.7	56.3	55.7	55.1	54.5	53.9	53.2	53.2	52.0	52.6
5°	69.3	68.7	68.1	66.9	66.2	65.6	65.0	64.4	64.4	64.4	65.0
7.5°	81.1	80.5	78.6	76.8	76.8	76.1	75.5	74.9	74.3	73.0	73.0
10°	88.5	87.9	86.7	86.0	84.8	84.2	83.6	82.3	81.1	78.6	78.6
12.5°	95.3	94.7	92.9	92.2	91.6	90.4	89.1	87.9	85.4	83.6	82.9
15°	101.5	100.3	98.4	97.8	96.6	94.7	93.5	92.2	89.8	87.3	86.7
17.5°	106.5	105.2	104.0	102.8	100.9	99.0	97.2	95.9	94.1	92.2	91.6
20°	112.0	110.8	109.6	107.7	105.8	104.0	102.1	100.3	99.0	97.2	97.2
22.5°	118.2	117.0	115.1	113.9	110.8	108.9	106.5	104.6	103.4	102.8	102.1
25°	124.4	123.2	120.7	118.8	115.8	113.3	111.4	108.9	107.7	108.3	108.3
27.5°	129.4	127.5	125.0	123.2	120.1	117.6	115.1	113.3	112.0	112.7	112.7
30°	133.1	131.8	129.4	126.9	123.8	120.7	118.8	116.4	115.8	116.4	117.0
32.5°	136.2	134.9	131.8	130.0	126.9	123.8	121.3	119.5	118.8	119.5	119.5
35°	138.7	138.0	134.9	131.8	129.4	126.3	124.4	122.6	122.6	123.8	123.2
37.5°	143.0	142.4	139.3	136.2	133.7	131.2	130.0	128.8	129.4	130.0	130.0
40°	154.1	150.4	147.9	144.2	141.8	140.5	139.3	139.3	139.9	140.5	140.5
42.5°	172.7	169.6	165.9	160.9	158.5	156.6	154.8	156.6	157.8	157.2	157.2
45°	202.4	198.7	193.1	185.7	181.4	178.9	178.9	181.4	182.6	180.7	179.5
47.5°	245.7	240.2	233.4	224.7	217.9	215.4	213.6	217.9	218.5	214.2	210.5
50°	300.8	295.9	287.2	277.9	271.7	264.9	259.4	265.6	265.6	256.3	252.6
52.5°	376.4	367.1	357.8	347.3	337.4	326.8	319.4	329.9	328.1	314.5	307.6
55°	450.0	445.1	438.9	420.9	411.6	392.4	383.8	394.9	390.0	370.8	365.8
57.5°	501.4	504.5	498.9	484.7	472.3	449.4	433.9	442.6	434.5	415.4	403.0
60°	543.5	546.6	544.7	528.6	520.6	491.5	470.4	481.0	474.8	452.5	440.7
62.5°	580.6	585.0	585.0	568.2	561.4	522.4	500.8	513.2	505.7	484.1	475.4
65°	616.5	619.6	621.5	604.8	596.7	551.5	526.8	542.9	539.8	517.5	513.2
67.5°	645.6	651.2	655.5	640.0	627.7	583.1	550.9	576.3	565.8	547.8	534.8
70°	677.8	681.5	688.3	674.7	663.0	612.8	572.0	606.6	595.5	575.1	557.7
72.5°	700.1	701.9	716.8	701.9	682.8	637.0	594.9	633.2	614.0	586.8	571.3
75°	720.5	723.6	742.8	723.6	709.4	658.0	609.7	654.3	636.3	604.8	588.7
77.5°	727.3	729.2	749.6	728.6	708.8	661.7	619.6	659.2	640.0	608.5	592.4
78°	732.9	734.1	753.9	732.9	712.5	662.3	620.9	661.7	643.1	612.8	595.5
80°	722.4	726.7	744.7	726.1	705.0	656.1	613.4	656.8	635.7	601.7	586.2
82.5°	711.9	714.9	729.8	710.6	692.0	646.2	603.5	645.0	626.4	590.5	577.5
85°	688.9	695.1	712.5	695.1	674.1	628.9	592.4	632.0	610.3	574.4	559.0
87.5°	670.4	677.8	693.3	680.9	659.9	613.4	575.1	616.5	596.1	560.8	546.0
90°	643.8	649.3	662.3	648.1	628.3	585.6	554.0	591.8	575.7	543.5	529.9
92.5°	607.9	613.4	626.4	611.6	594.2	551.5	521.2	559.0	537.9	511.3	496.4
95°	572.6	577.5	589.3	577.5	562.1	521.2	492.7	530.5	508.8	482.8	471.7
97.5°	528.0	531.7	542.2	529.2	516.2	477.3	450.6	485.3	465.5	444.4	430.8
100°	463.6	464.9	470.4	455.0	449.4	414.7	394.3	424.0	407.3	392.4	379.4
102.5°	357.8	346.0	345.4	338.0	329.3	301.5	294.0	310.1	311.4	299.0	291.5
105°	214.8	206.1	204.3	200.6	191.9	178.3	173.3	190.0	188.2	184.5	178.3
107.5°	138.7	136.2	136.2	133.1	128.1	120.1	116.4	123.2	120.7	118.8	116.4



REPORT NUMBER: P314626

CATALOG NUMBER: MPB-A4-D-U-SYM

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	113.3	112.0	112.0	108.9	106.5	99.7	96.6	100.9	99.0	97.8	95.3
112.5°	100.9	99.7	99.7	97.8	95.3	89.8	87.9	91.6	89.1	87.3	86.0
115°	92.9	92.2	91.6	89.8	87.9	82.9	81.1	84.8	82.9	81.1	80.5
117.5°	87.3	86.0	86.0	84.2	82.3	78.0	76.8	79.2	77.4	75.5	74.9
120°	81.7	81.1	80.5	79.2	77.4	73.0	71.8	73.7	72.4	70.6	69.3
122.5°	76.8	76.1	74.9	73.7	71.2	67.5	66.9	68.1	66.2	64.4	63.8
125°	71.2	69.9	69.3	67.5	65.0	61.9	61.3	61.9	60.0	58.2	57.6
127.5°	65.6	63.8	62.5	60.7	58.2	55.1	55.1	55.7	54.5	52.6	52.0
130°	58.2	56.9	55.1	53.2	50.8	48.3	48.3	48.9	47.7	46.4	46.4
132.5°	50.1	48.3	47.0	45.2	43.3	41.5	41.5	41.5	40.9	40.2	39.6
135°	41.5	40.2	38.4	37.1	35.3	34.0	34.0	34.7	34.0	32.8	32.8
137.5°	32.2	31.0	29.7	29.1	27.9	26.6	26.6	27.2	26.6	26.0	26.0
140°	24.8	23.5	22.9	22.3	21.0	20.4	20.4	20.4	20.4	19.8	19.8
142.5°	19.2	18.6	18.0	17.3	16.7	15.5	16.1	16.1	16.1	15.5	15.5
145°	14.2	13.6	13.0	12.4	12.4	11.8	11.8	11.8	11.8	11.8	11.1
147.5°	9.9	9.3	8.7	8.0	8.0	8.0	8.0	8.0	8.0	7.4	7.4
150°	5.6	5.0	4.3	3.7	3.7	3.7	3.7	4.3	3.7	3.7	3.7
152.5°	1.2	0.6	0.6	0.6	0.6	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	0.6	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)