

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: P314625

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314625
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-A3-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: 3081 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.58')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U3 - G3

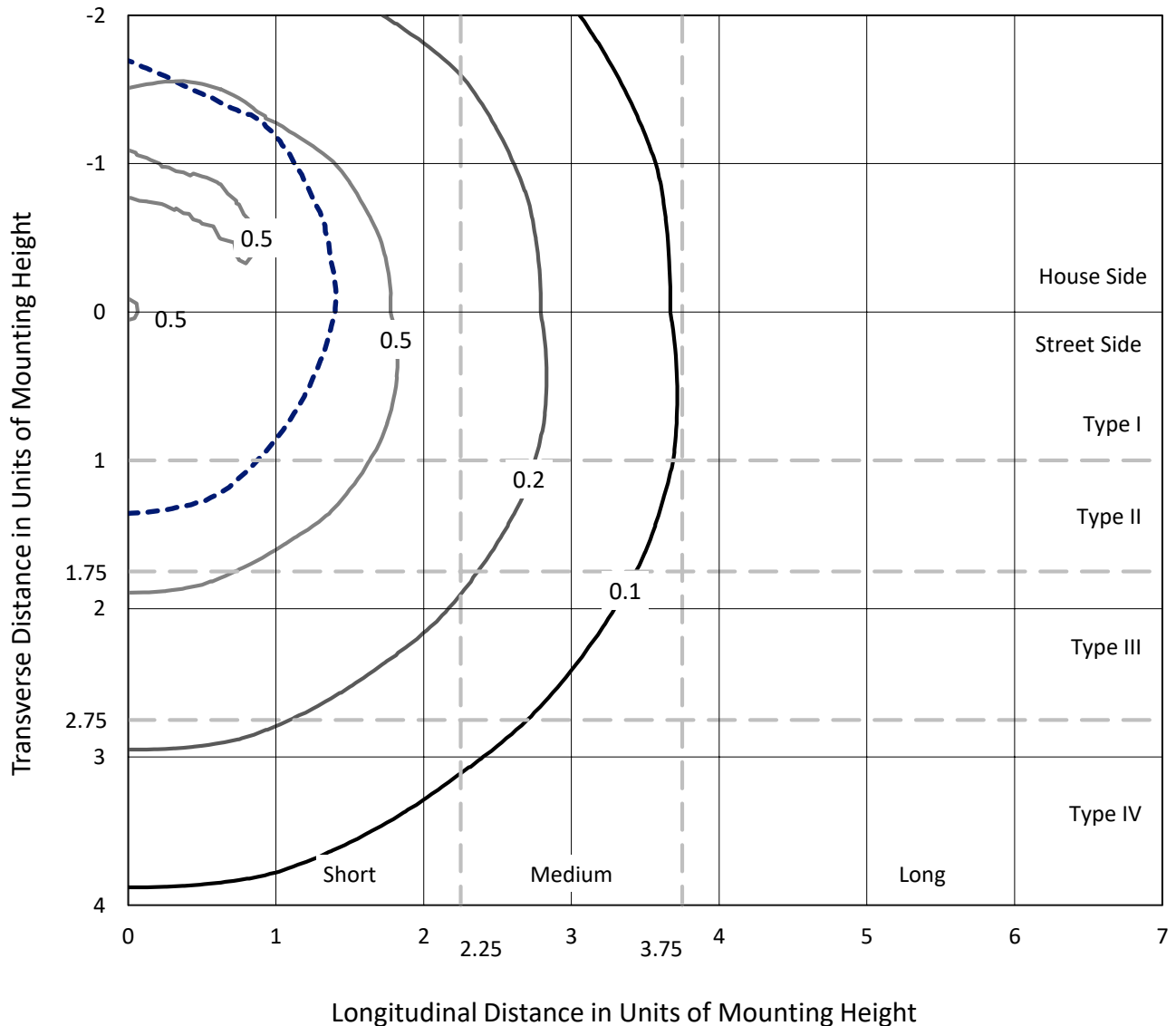
Input Watts (W): 28.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P314625
 CATALOG NUMBER: MPB-A3-D-U-SYM

Iso-Footcandle Lines of Horizontal Illumination

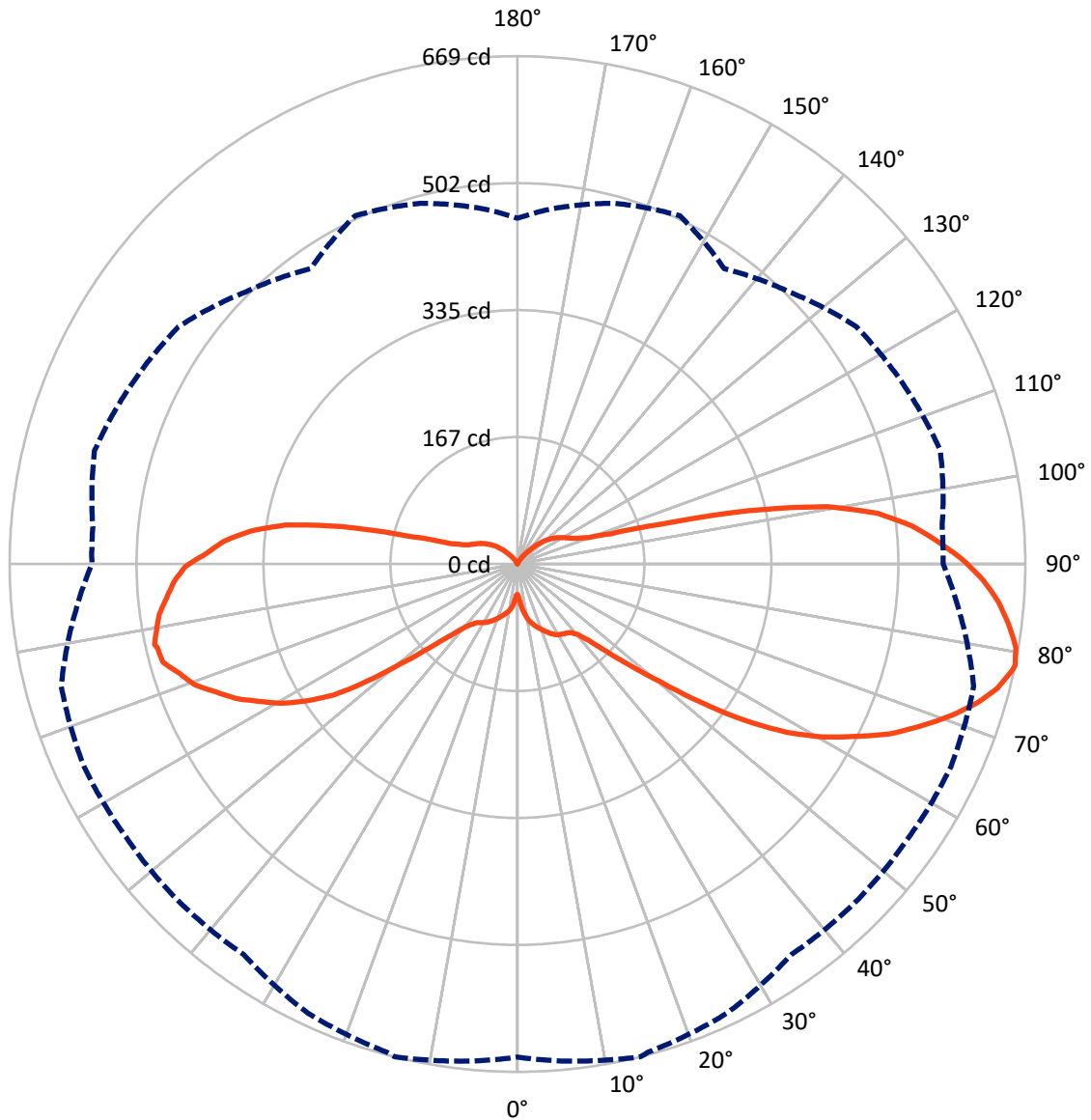
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 0.8 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P314625
CATALOG NUMBER: MPB-A3-D-U-SYM

Luminous Intensity Polar Plot



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

REPORT NUMBER: P314625

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

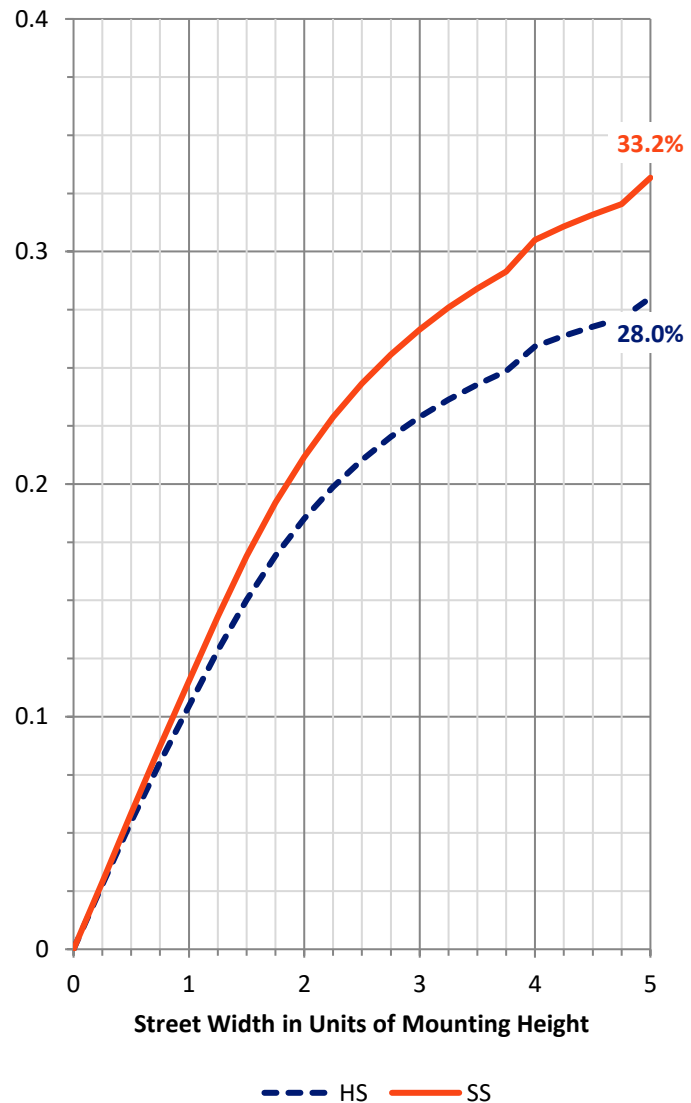
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1012.7	381.9	1394.7
	% Fixture	32.9	12.4	45.3
Street Side	Lumens	1219.0	467.3	1686.3
	% Fixture	39.6	15.2	54.7
Total	Lumens	2231.7	849.3	3081.0
	% Fixture	72.4	27.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.5	0.2
10°-20°	22.0	0.7
20°-30°	43.1	1.4
30°-40°	65.9	2.1
40°-50°	125.0	4.1
50°-60°	301.4	9.8
60°-70°	477.0	15.5
70°-80°	595.7	19.3
80°-90°	596.3	19.4
90°-100°	490.0	15.9
100°-110°	207.5	6.7
110°-120°	72.3	2.3
120°-130°	48.2	1.6
130°-140°	24.0	0.8
140°-150°	7.1	0.2
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2231.7	72.4
0°-180°	3081.0	100.0



REPORT NUMBER: P314625

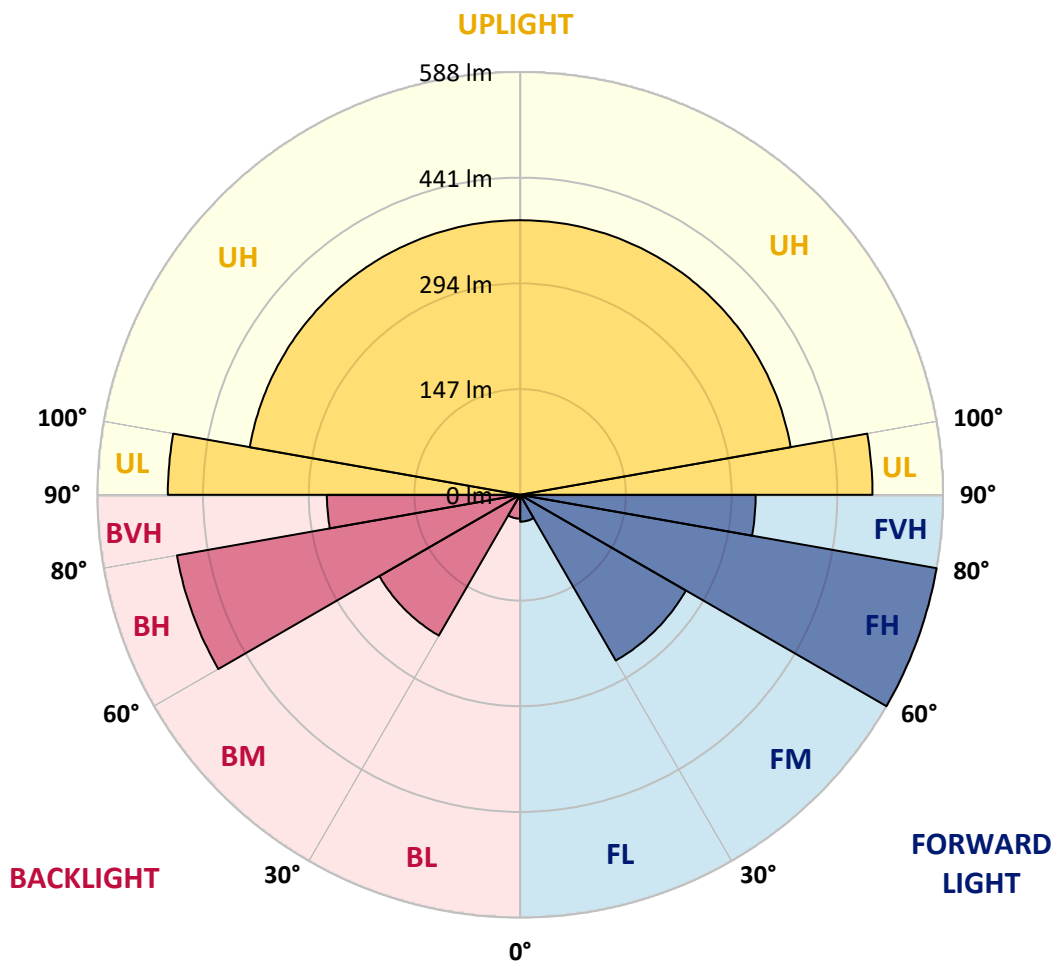
CATALOG NUMBER: MPB-A3-D-U-SYM

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	37.4	1.2			
FM	(30°-60°)	266.1	8.6			
FH	(60°-80°)	588.0	19.1			G0/660
FVH	(80°-90°)	327.5	10.6			G3/500
BL	(0°-30°)	33.2	1.1	B0/110		
BM	(30°-60°)	226.1	7.3	B1/1000		
BH	(60°-80°)	484.6	15.7	B1/500		G1/500
BVH	(80°-90°)	268.8	8.7			G3/500
UL	(90°-100°)	490.0	15.9		U3/500	
UH	(100°-180°)	381.9	12.4		U3/500	

BUG Rating: B1-U3-G3

Type IV Short





REPORT NUMBER: P314625

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
0°	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3
2.5°	45.5	45.9	45.9	46.4	45.5	45.5	45.0	44.5	44.1	43.6	43.1
5°	56.8	56.8	56.8	56.8	55.9	56.4	55.9	55.0	54.0	54.0	53.1
7.5°	65.8	65.8	65.8	65.8	65.4	65.4	64.9	64.4	63.5	63.0	62.5
10°	72.5	73.0	73.4	73.4	73.0	72.5	71.5	71.1	70.6	69.6	68.2
12.5°	78.6	79.1	79.1	79.1	78.6	78.2	77.2	76.3	75.8	74.8	73.9
15°	83.8	83.8	83.8	83.4	82.9	82.4	81.5	81.0	80.1	79.1	78.2
17.5°	87.6	88.1	88.1	87.6	86.7	86.7	85.3	85.3	84.3	83.4	82.4
20°	92.4	92.4	92.4	91.9	91.4	91.0	89.5	89.1	88.6	87.6	86.7
22.5°	97.1	97.1	96.6	96.6	95.7	95.2	94.3	93.8	92.8	91.9	91.4
25°	102.3	102.3	101.4	101.4	100.4	99.5	98.5	98.1	97.1	96.6	96.2
27.5°	106.1	106.1	105.2	104.7	104.2	102.8	102.3	101.4	100.4	100.0	99.5
30°	109.4	109.0	108.0	108.0	107.1	105.6	104.7	103.7	102.8	102.8	102.8
32.5°	111.3	110.8	109.9	109.4	108.0	107.1	106.1	105.2	104.2	104.7	104.7
35°	113.2	113.2	111.8	111.3	109.9	108.5	107.1	106.1	105.6	106.1	106.6
37.5°	116.5	116.1	114.6	114.2	112.3	111.8	110.8	110.4	109.9	110.4	110.4
40°	123.6	123.6	122.2	121.7	120.3	120.8	120.3	120.8	119.8	120.8	119.4
42.5°	137.4	138.3	136.9	136.0	135.0	136.9	138.8	138.3	137.4	137.8	134.5
45°	161.5	163.4	163.9	162.5	159.6	164.9	167.7	168.2	165.8	164.4	159.2
47.5°	198.0	200.9	199.4	199.4	194.7	202.3	206.1	208.4	204.6	202.3	193.7
50°	244.0	248.7	244.0	245.9	237.3	250.6	256.7	258.2	254.9	249.6	238.7
52.5°	300.8	304.6	303.2	301.8	292.8	310.3	321.2	326.9	321.2	313.6	297.0
55°	365.2	364.8	363.8	365.2	356.7	370.9	387.5	390.8	388.9	373.3	354.3
57.5°	418.3	418.8	418.8	418.8	408.3	420.7	435.8	438.2	435.3	421.6	396.5
60°	459.5	460.9	462.8	463.8	453.8	459.5	475.6	475.1	472.3	455.2	433.9
62.5°	494.6	496.9	500.7	500.7	494.6	493.1	507.8	505.9	504.5	488.4	463.8
65°	529.6	532.0	539.6	539.1	532.0	525.3	541.4	540.0	536.7	520.6	491.2
67.5°	559.4	562.8	571.3	572.2	567.0	559.0	568.9	565.1	563.2	546.2	514.0
70°	591.2	595.9	602.6	602.6	590.2	584.1	593.1	590.7	593.1	576.0	539.1
72.5°	615.3	617.2	631.0	632.4	618.2	604.5	614.9	609.2	611.1	592.6	556.1
75°	640.5	642.8	653.7	653.7	634.3	622.0	629.6	627.2	630.5	615.3	572.7
77.5°	649.9	656.1	667.5	665.1	651.3	630.0	638.1	637.1	639.0	620.1	578.4
78°	649.9	657.5	669.3	666.0	653.2	628.6	630.0	629.1	630.5	622.5	581.2
80°	648.0	658.9	666.0	661.8	650.9	623.4	622.5	622.9	625.8	617.2	573.7
82.5°	633.3	644.7	652.3	650.4	640.9	611.1	615.8	621.0	627.2	612.0	568.0
85°	620.1	631.9	635.7	634.3	623.4	592.6	596.4	603.5	600.7	589.8	550.4
87.5°	602.6	613.0	614.4	613.5	604.0	574.6	577.4	582.2	585.0	578.9	535.8
90°	574.6	584.1	587.4	587.4	577.4	552.3	559.0	565.6	570.8	559.0	516.3
92.5°	543.8	552.3	555.7	555.7	547.1	522.5	526.8	535.3	536.2	526.8	487.4
95°	511.1	516.3	522.5	521.6	511.1	487.0	491.2	501.7	503.1	494.6	459.5
97.5°	469.9	471.8	479.4	478.0	467.5	450.0	456.2	465.7	466.6	458.1	424.0
100°	408.8	408.3	415.0	415.0	405.0	394.1	402.7	414.5	413.1	404.5	375.6
102.5°	307.4	301.8	311.2	310.3	307.4	303.2	311.7	323.1	325.9	319.8	290.4
105°	195.2	191.9	194.7	192.8	191.4	183.3	186.6	190.4	187.6	190.0	173.9
107.5°	128.8	127.0	128.8	128.4	125.5	121.7	121.3	122.2	121.7	119.8	110.8



REPORT NUMBER: P314625

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

CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	99.0	98.1	99.5	99.0	97.6	95.7	95.2	96.2	96.2	94.7	89.5
112.5°	85.7	85.3	86.7	86.2	85.3	83.8	83.8	84.3	84.8	83.4	79.6
115°	77.2	77.7	78.6	78.6	77.7	75.8	76.3	77.2	77.2	76.3	73.4
117.5°	72.0	72.5	73.4	73.0	72.0	71.1	71.1	72.0	73.0	71.5	69.2
120°	67.7	67.7	68.7	68.2	67.3	66.8	67.3	68.2	68.7	67.3	64.9
122.5°	63.0	63.5	64.0	64.0	63.0	63.0	64.0	64.4	64.9	63.5	60.6
125°	57.8	58.3	58.7	58.7	58.3	58.7	59.2	59.7	60.6	59.2	56.4
127.5°	52.1	52.6	53.1	53.1	53.1	53.5	54.5	55.0	55.9	54.5	51.6
130°	45.5	45.9	46.9	46.4	46.9	47.8	49.3	49.3	49.7	48.8	45.9
132.5°	38.4	38.8	39.8	39.8	40.3	41.7	42.6	42.6	43.1	42.2	39.8
135°	30.8	31.3	32.7	32.7	33.6	34.6	35.5	35.5	36.0	35.1	32.7
137.5°	24.2	24.2	25.6	25.6	26.5	27.0	27.5	27.5	27.9	27.5	25.6
140°	18.9	18.9	20.4	19.9	20.8	20.8	20.8	20.8	21.3	20.8	19.4
142.5°	14.7	15.2	16.1	15.6	16.6	16.6	16.6	16.1	17.1	16.6	15.2
145°	11.4	11.4	12.3	11.8	12.3	12.8	12.8	12.3	12.8	12.3	11.4
147.5°	7.6	7.6	8.5	8.1	8.5	9.0	9.5	9.0	9.5	9.0	8.1
150°	3.8	3.8	4.7	4.3	4.7	5.2	5.7	5.7	5.7	5.2	4.3
152.5°	0.0	0.0	0.5	0.5	0.5	0.9	0.9	0.9	1.4	1.4	0.9
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	0.5	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	0.5	0.0	0.0	0.0	0.5	0.5
177.5°	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.5
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P314625

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3
2.5°	42.6	42.6	43.1	42.6	42.2	41.7	41.2	40.7	40.7	39.8	40.3
5°	53.1	52.6	52.1	51.2	50.7	50.2	49.7	49.3	49.3	49.3	49.7
7.5°	62.1	61.6	60.2	58.7	58.7	58.3	57.8	57.3	56.8	55.9	55.9
10°	67.7	67.3	66.3	65.8	64.9	64.4	64.0	63.0	62.1	60.2	60.2
12.5°	73.0	72.5	71.1	70.6	70.1	69.2	68.2	67.3	65.4	64.0	63.5
15°	77.7	76.7	75.3	74.8	73.9	72.5	71.5	70.6	68.7	66.8	66.3
17.5°	81.5	80.5	79.6	78.6	77.2	75.8	74.4	73.4	72.0	70.6	70.1
20°	85.7	84.8	83.8	82.4	81.0	79.6	78.2	76.7	75.8	74.4	74.4
22.5°	90.5	89.5	88.1	87.2	84.8	83.4	81.5	80.1	79.1	78.6	78.2
25°	95.2	94.3	92.4	91.0	88.6	86.7	85.3	83.4	82.4	82.9	82.9
27.5°	99.0	97.6	95.7	94.3	91.9	90.0	88.1	86.7	85.7	86.2	86.2
30°	101.8	100.9	99.0	97.1	94.7	92.4	91.0	89.1	88.6	89.1	89.5
32.5°	104.2	103.3	100.9	99.5	97.1	94.7	92.8	91.4	91.0	91.4	91.4
35°	106.1	105.6	103.3	100.9	99.0	96.6	95.2	93.8	93.8	94.7	94.3
37.5°	109.4	109.0	106.6	104.2	102.3	100.4	99.5	98.5	99.0	99.5	99.5
40°	118.0	115.1	113.2	110.4	108.5	107.5	106.6	106.6	107.1	107.5	107.5
42.5°	132.2	129.8	127.0	123.2	121.3	119.8	118.4	119.8	120.8	120.3	120.3
45°	154.9	152.1	147.8	142.1	138.8	136.9	136.9	138.8	139.7	138.3	137.4
47.5°	188.1	183.8	178.6	172.0	166.7	164.9	163.4	166.7	167.2	163.9	161.1
50°	230.2	226.4	219.8	212.7	208.0	202.7	198.5	203.2	203.2	196.1	193.3
52.5°	288.0	280.9	273.8	265.7	258.2	250.1	244.4	252.5	251.1	240.6	235.4
55°	344.4	340.6	335.9	322.1	315.0	300.3	293.7	302.2	298.4	283.8	280.0
57.5°	383.7	386.1	381.8	370.9	361.4	343.9	332.1	338.7	332.5	317.9	308.4
60°	415.9	418.3	416.9	404.5	398.4	376.1	360.0	368.1	363.3	346.3	337.3
62.5°	444.3	447.7	447.7	434.9	429.7	399.8	383.2	392.7	387.0	370.4	363.8
65°	471.8	474.2	475.6	462.8	456.7	422.1	403.1	415.4	413.1	396.0	392.7
67.5°	494.1	498.3	501.7	489.8	480.3	446.2	421.6	441.0	433.0	419.2	409.3
70°	518.7	521.6	526.8	516.3	507.3	469.0	437.7	464.2	455.7	440.1	426.8
72.5°	535.8	537.2	548.6	537.2	522.5	487.4	455.2	484.6	469.9	449.1	437.2
75°	551.4	553.8	568.4	553.8	542.9	503.6	466.6	500.7	487.0	462.8	450.5
77.5°	556.6	558.0	573.7	557.6	542.4	506.4	474.2	504.5	489.8	465.7	453.3
78°	560.9	561.8	577.0	560.9	545.2	506.9	475.1	506.4	492.2	469.0	455.7
80°	552.8	556.1	569.9	555.7	539.6	502.1	469.4	502.6	486.5	460.4	448.6
82.5°	544.8	547.1	558.5	543.8	529.6	494.6	461.9	493.6	479.4	451.9	442.0
85°	527.2	532.0	545.2	532.0	515.9	481.3	453.3	483.7	467.1	439.6	427.8
87.5°	513.0	518.7	530.6	521.1	505.0	469.4	440.1	471.8	456.2	429.2	417.8
90°	492.7	496.9	506.9	496.0	480.8	448.1	424.0	452.9	440.5	415.9	405.5
92.5°	465.2	469.4	479.4	468.0	454.8	422.1	398.9	427.8	411.7	391.3	379.9
95°	438.2	442.0	451.0	442.0	430.1	398.9	377.1	406.0	389.4	369.5	361.0
97.5°	404.1	406.9	415.0	405.0	395.1	365.2	344.9	371.4	356.2	340.1	329.7
100°	354.8	355.8	360.0	348.2	343.9	317.4	301.8	324.5	311.7	300.3	290.4
102.5°	273.8	264.8	264.3	258.6	252.0	230.7	225.0	237.3	238.3	228.8	223.1
105°	164.4	157.7	156.3	153.5	146.8	136.4	132.6	145.4	144.0	141.2	136.4
107.5°	106.1	104.2	104.2	101.8	98.1	91.9	89.1	94.3	92.4	91.0	89.1



REPORT NUMBER: P314625

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	86.7	85.7	85.7	83.4	81.5	76.3	73.9	77.2	75.8	74.8	73.0
112.5°	77.2	76.3	76.3	74.8	73.0	68.7	67.3	70.1	68.2	66.8	65.8
115°	71.1	70.6	70.1	68.7	67.3	63.5	62.1	64.9	63.5	62.1	61.6
117.5°	66.8	65.8	65.8	64.4	63.0	59.7	58.7	60.6	59.2	57.8	57.3
120°	62.5	62.1	61.6	60.6	59.2	55.9	55.0	56.4	55.4	54.0	53.1
122.5°	58.7	58.3	57.3	56.4	54.5	51.6	51.2	52.1	50.7	49.3	48.8
125°	54.5	53.5	53.1	51.6	49.7	47.4	46.9	47.4	45.9	44.5	44.1
127.5°	50.2	48.8	47.8	46.4	44.5	42.2	42.2	42.6	41.7	40.3	39.8
130°	44.5	43.6	42.2	40.7	38.8	36.9	36.9	37.4	36.5	35.5	35.5
132.5°	38.4	36.9	36.0	34.6	33.2	31.7	31.7	31.7	31.3	30.8	30.3
135°	31.7	30.8	29.4	28.4	27.0	26.1	26.1	26.5	26.1	25.1	25.1
137.5°	24.6	23.7	22.7	22.3	21.3	20.4	20.4	20.8	20.4	19.9	19.9
140°	18.9	18.0	17.5	17.1	16.1	15.6	15.6	15.6	15.6	15.2	15.2
142.5°	14.7	14.2	13.7	13.3	12.8	11.8	12.3	12.3	12.3	11.8	11.8
145°	10.9	10.4	9.9	9.5	9.5	9.0	9.0	9.0	9.0	9.0	8.5
147.5°	7.6	7.1	6.6	6.2	6.2	6.2	6.2	6.2	6.2	5.7	5.7
150°	4.3	3.8	3.3	2.8	2.8	2.8	2.8	3.3	2.8	2.8	2.8
152.5°	0.9	0.5	0.5	0.5	0.5	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	0.5	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)