

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: P314637

Luminaire Tested: **MPB-A3-D-U-ASYM-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314637
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-A3-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: 2960 lumens
Efficiency: N/A
Efficacy: 102.8 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): 28.8
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

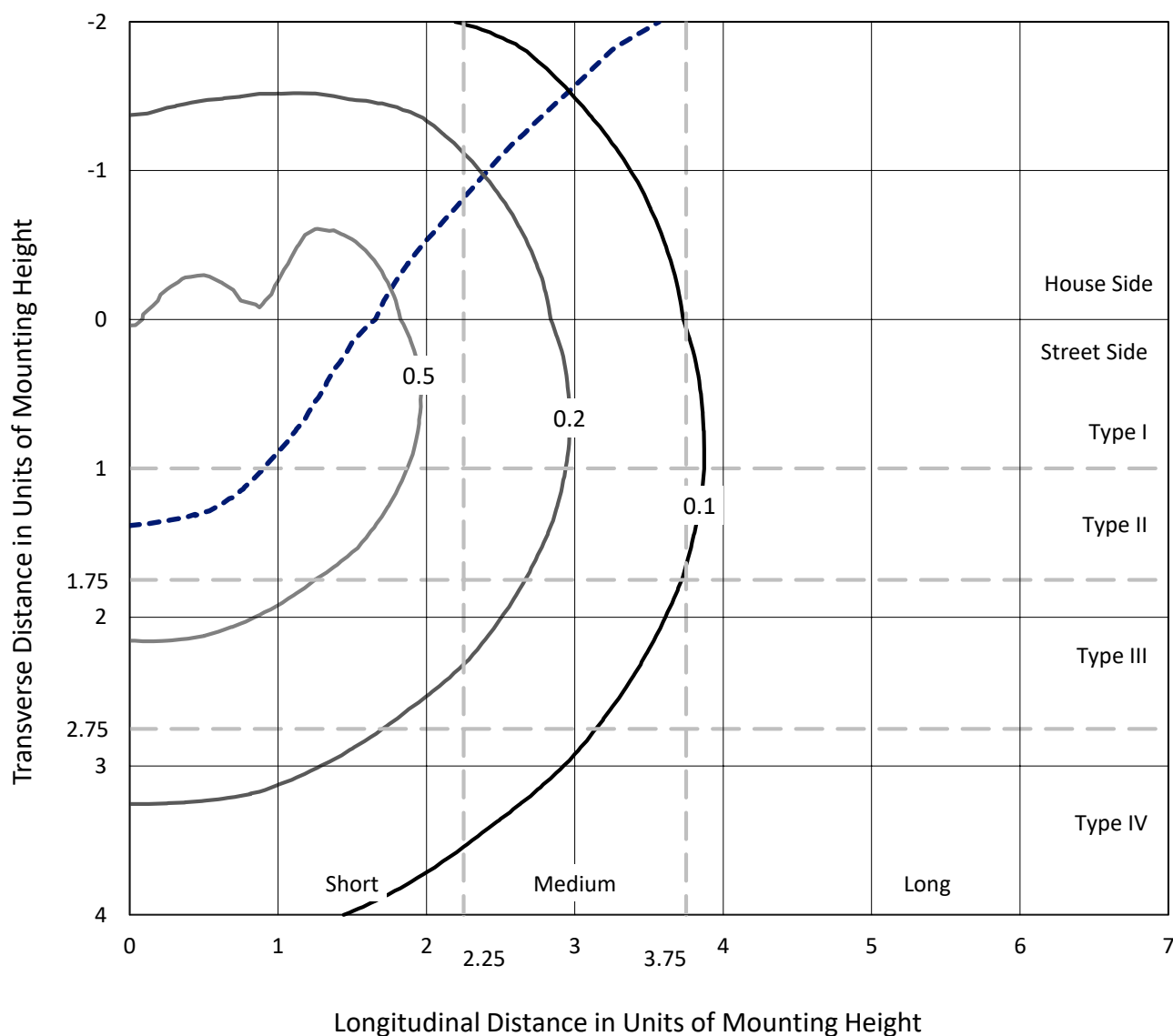


REPORT NUMBER: P314637

CATALOG NUMBER: MPB-A3-D-U-ASYM-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

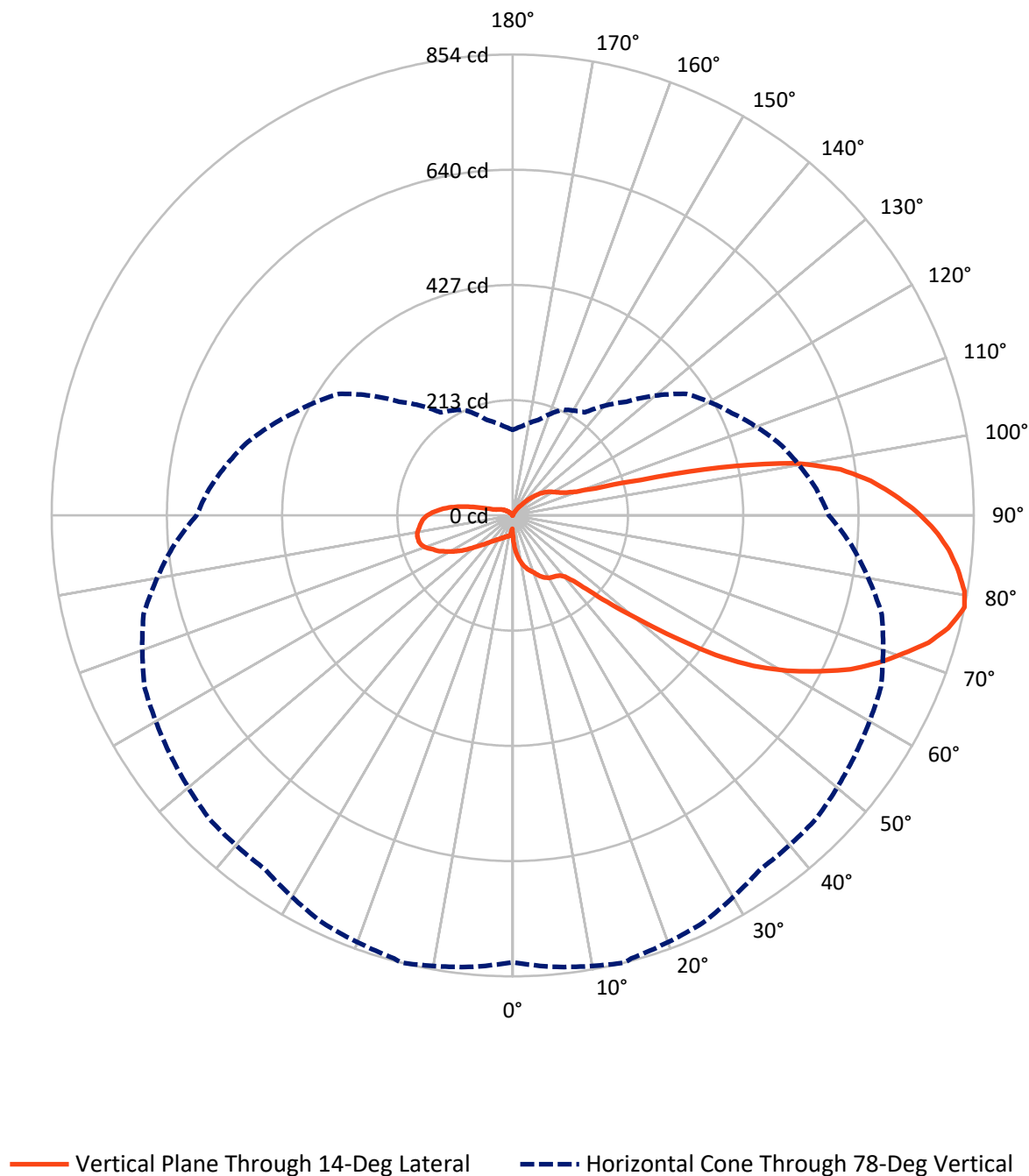


Based on 10 foot mounting height. Maximum calculated value = 1 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P314637

CATALOG NUMBER: MPB-A3-D-U-ASYM-7030

Luminous Intensity Polar Plot



REPORT NUMBER: P314637

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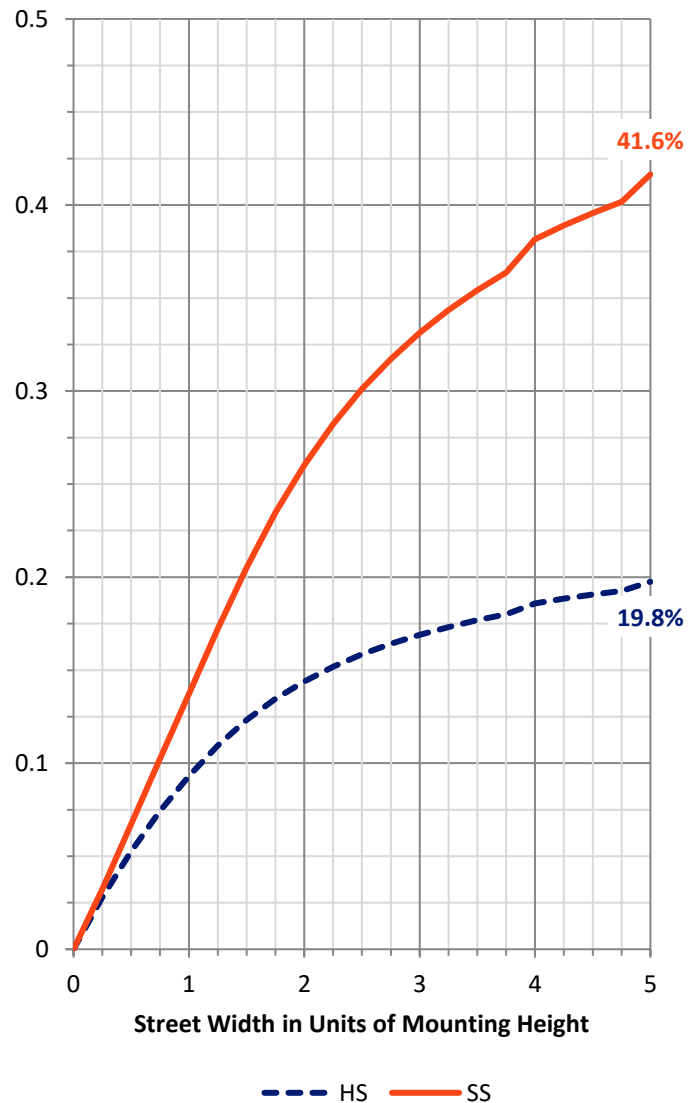
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	664.1	243.7	907.9
	% Fixture	22.4	8.2	30.7
Street Side	Lumens	1479.7	572.4	2052.2
	% Fixture	50.0	19.3	69.3
Total	Lumens	2143.8	816.2	2960.0
	% Fixture	72.4	27.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.2	0.2
10°-20°	21.0	0.7
20°-30°	41.4	1.4
30°-40°	63.3	2.1
40°-50°	119.8	4.0
50°-60°	288.9	9.8
60°-70°	458.1	15.5
70°-80°	572.8	19.4
80°-90°	573.4	19.4
90°-100°	470.3	15.9
100°-110°	200.4	6.8
110°-120°	69.2	2.3
120°-130°	46.2	1.6
130°-140°	23.0	0.8
140°-150°	6.6	0.2
150°-160°	0.4	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	2143.8	72.4
0°-180°	2960.0	100.0

Coefficient of Utilization



REPORT NUMBER: P314637

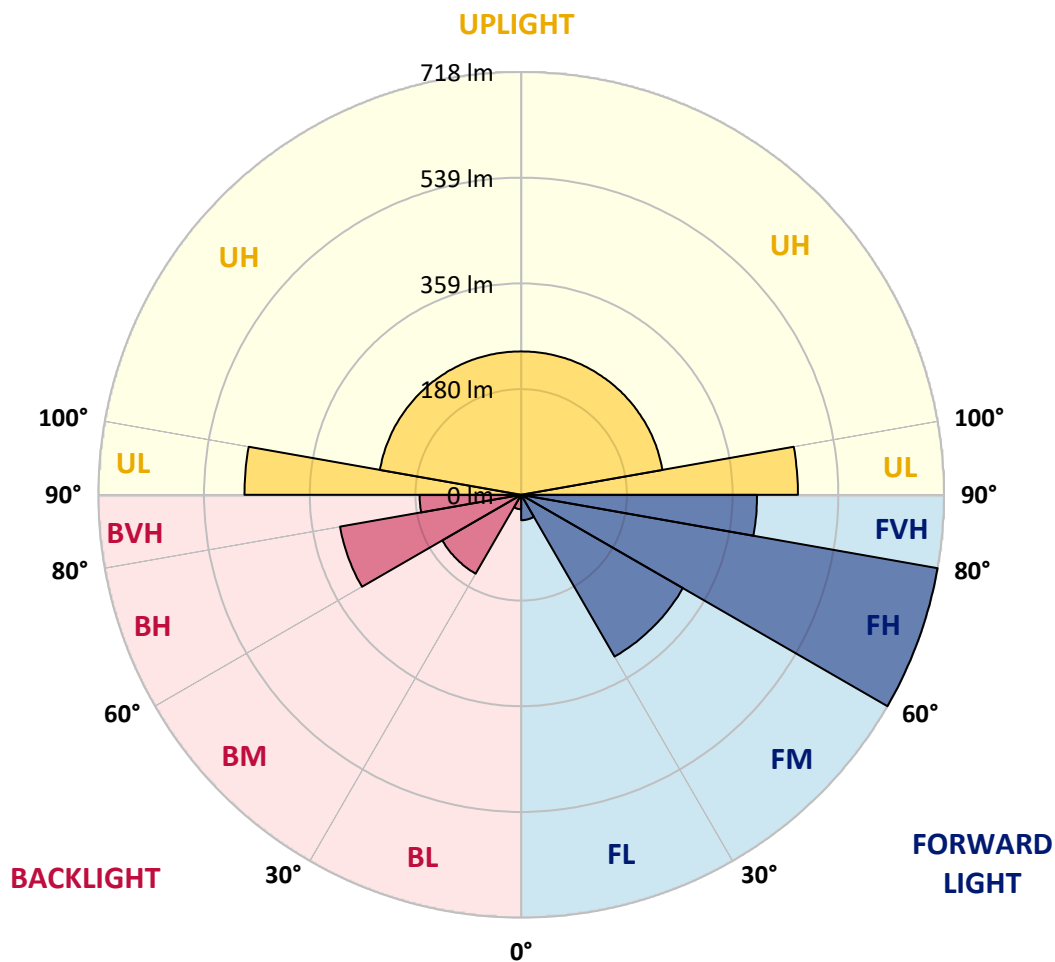
CATALOG NUMBER: MPB-A3-D-U-ASYM-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	43.1	1.5			
FM	(30°-60°)	317.3	10.7			
FH	(60°-80°)	718.5	24.3			G1/1800
FVH	(80°-90°)	400.8	13.5			G3/500
BL	(0°-30°)	24.5	0.8	B0/110		
BM	(30°-60°)	154.7	5.2	B0/220		
BH	(60°-80°)	312.4	10.6	B1/500		G1/500
BVH	(80°-90°)	172.6	5.8			G2/225
UL	(90°-100°)	470.3	15.9		U3/500	
UH	(100°-180°)	243.7	8.2		U3/500	

BUG Rating: B1-U3-G3

Type IV Short





REPORT NUMBER: P314637

CATALOG NUMBER: MPB-A3-D-U-ASYM-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
0°	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6
2.5°	57.6	57.1	56.6	56.1	55.7	52.8	51.9	50.0	47.6	44.7	42.3
5°	71.4	70.9	69.9	69.9	68.5	66.6	64.7	62.3	58.5	54.7	51.4
7.5°	82.3	81.4	80.9	80.4	79.5	77.1	74.7	71.8	68.5	64.7	60.9
10°	90.4	90.4	89.9	89.9	88.5	86.1	82.8	79.9	76.1	71.4	67.1
12.5°	98.0	97.5	97.1	97.1	95.6	92.8	89.5	86.1	82.3	77.6	73.3
15°	103.2	103.2	103.2	102.8	100.9	98.5	95.2	92.3	88.0	82.8	78.5
17.5°	108.5	108.5	108.0	108.0	105.6	103.2	99.9	97.1	92.8	87.5	82.8
20°	114.2	114.2	113.2	112.8	110.9	109.0	105.2	101.8	97.5	92.8	87.5
22.5°	121.3	120.9	119.9	119.9	117.5	114.2	110.9	107.5	103.2	98.0	92.8
25°	127.0	127.0	126.1	125.6	123.7	120.9	117.0	112.3	108.0	102.8	98.0
27.5°	132.3	131.8	130.4	129.9	128.0	125.1	121.3	117.0	111.8	106.6	101.3
30°	136.6	135.6	134.2	134.2	131.8	128.5	124.7	120.4	114.2	109.4	104.2
32.5°	138.5	138.0	136.1	135.6	133.2	129.9	126.1	121.3	116.1	110.9	106.1
35°	140.4	139.9	138.0	137.5	134.7	130.8	126.6	122.3	116.6	112.3	107.1
37.5°	143.7	143.7	141.3	140.8	138.0	135.1	130.8	126.6	121.8	116.1	110.4
40°	150.8	150.4	148.9	148.0	145.6	144.6	140.8	136.6	131.8	127.5	119.0
42.5°	166.5	167.0	167.0	166.1	163.7	165.1	162.7	159.4	153.7	148.0	137.0
45°	195.1	200.3	198.9	197.9	195.1	199.8	198.4	197.0	188.9	180.3	165.1
47.5°	238.9	246.0	247.4	243.6	240.8	244.6	250.3	247.4	236.5	226.0	207.0
50°	295.9	303.6	301.7	300.7	295.0	305.9	313.6	312.1	299.3	286.4	256.9
52.5°	367.3	371.1	374.9	370.6	365.4	379.7	396.3	394.4	381.6	362.1	325.0
55°	448.7	452.5	456.3	451.1	443.4	460.1	482.0	477.7	464.4	432.5	389.7
57.5°	520.1	527.2	525.8	523.9	508.2	524.8	542.4	538.1	522.0	485.8	436.8
60°	573.8	578.1	583.8	581.9	573.3	576.7	594.8	584.3	564.8	524.8	472.0
62.5°	622.3	628.1	635.7	633.8	627.1	621.9	636.1	622.3	602.4	562.9	504.3
65°	670.4	677.1	687.5	684.7	676.1	664.2	678.0	663.7	641.4	598.6	533.8
67.5°	709.4	716.6	728.9	727.5	721.8	708.0	711.8	694.2	670.9	626.2	558.1
70°	749.4	757.5	766.5	768.4	752.7	740.3	743.7	724.2	703.7	659.5	586.2
72.5°	784.1	787.9	805.1	808.9	787.9	766.5	770.3	748.0	725.6	676.6	605.7
75°	815.0	819.3	832.7	833.1	809.3	789.4	790.3	771.7	751.8	702.8	623.8
77.5°	828.4	836.5	850.7	846.5	830.3	799.8	803.2	784.6	760.8	707.0	626.2
78°	827.4	839.3	853.6	849.3	832.7	799.8	794.6	773.7	752.2	707.5	629.5
80°	824.1	838.8	847.9	843.6	828.8	791.3	784.6	767.0	747.0	701.8	620.0
82.5°	805.1	821.2	830.7	827.4	816.5	777.0	773.7	766.5	748.4	699.4	613.3
85°	788.4	804.6	809.8	807.4	795.5	758.4	756.5	743.7	719.4	673.7	592.4
87.5°	766.0	779.8	782.2	782.7	768.9	731.3	728.5	718.0	700.4	658.5	578.1
90°	731.3	743.2	748.4	748.4	737.0	702.3	702.8	699.4	683.3	638.5	558.1
92.5°	691.8	703.2	708.5	708.0	698.0	667.5	667.5	661.4	640.4	601.4	526.2
95°	649.9	658.5	666.1	665.6	652.3	623.8	622.8	622.3	602.4	564.3	495.3
97.5°	597.6	602.4	612.8	611.4	599.0	577.6	578.6	580.5	562.4	526.7	460.1
100°	517.2	516.7	530.0	527.2	519.6	505.8	512.0	514.8	499.6	468.7	412.5
102.5°	384.9	384.4	395.9	393.0	393.5	388.3	398.2	403.0	393.5	369.7	324.0
105°	241.2	239.3	246.0	244.1	241.7	235.0	236.5	234.6	229.3	215.1	188.9
107.5°	159.9	158.4	161.8	162.7	158.4	153.7	152.3	150.4	144.6	136.1	121.3



REPORT NUMBER: P314637

CATALOG NUMBER: MPB-A3-D-U-ASYM-7030

CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	123.7	123.7	125.6	124.7	122.8	120.4	118.5	117.5	113.2	107.5	96.6
112.5°	106.1	106.1	108.0	107.5	106.1	103.7	103.2	102.3	99.4	94.7	86.1
115°	96.6	96.6	98.0	98.0	96.6	94.2	93.7	93.3	91.4	87.1	79.5
117.5°	90.4	89.9	91.4	91.4	89.5	88.0	88.0	87.5	86.1	81.8	75.2
120°	84.7	84.7	85.6	85.6	84.2	83.3	83.7	83.3	81.8	77.6	70.9
122.5°	79.5	79.5	80.4	79.9	79.0	79.0	79.0	79.0	77.6	73.7	67.1
125°	72.8	72.8	73.7	73.7	72.8	73.3	73.7	73.7	72.8	69.0	62.8
127.5°	65.7	65.7	66.6	66.6	66.1	67.1	68.5	68.0	67.1	63.8	58.0
130°	57.6	57.6	58.5	59.0	59.0	60.4	61.4	61.4	60.4	57.6	51.9
132.5°	49.0	48.5	49.5	50.0	50.9	52.3	52.8	52.8	52.3	49.5	44.7
135°	39.5	39.5	40.9	41.4	42.3	43.3	43.8	44.2	43.8	41.4	37.1
137.5°	30.5	30.5	31.9	32.4	33.3	33.8	33.8	34.7	33.8	32.4	29.0
140°	23.8	23.8	24.7	25.2	26.2	26.2	25.7	25.7	25.2	24.3	21.4
142.5°	19.0	18.6	20.0	20.0	20.5	20.9	20.5	20.5	20.0	19.0	17.1
145°	14.3	14.3	14.7	15.2	15.2	15.7	15.7	15.7	15.2	14.7	12.8
147.5°	9.5	9.5	10.5	10.5	10.9	11.4	11.4	11.4	10.9	10.5	9.0
150°	4.8	4.8	5.2	5.7	6.2	6.2	6.7	7.1	6.7	6.2	5.2
152.5°	0.0	0.0	0.5	0.5	1.0	1.4	1.9	1.9	1.9	1.9	1.9
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
157.5°	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.5	0.5	0.5
160°	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.5	0.5	0.5	0.5
162.5°	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5
165°	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5
167.5°	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5
170°	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
172.5°	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
175°	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
177.5°	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
180°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5



REPORT NUMBER: P314637

CATALOG NUMBER: MPB-A3-D-U-ASYM-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6
2.5°	40.9	39.0	36.6	34.3	31.9	29.5	27.6	25.7	24.7	23.8	23.8
5°	49.5	47.6	44.2	40.9	37.6	35.2	33.3	31.9	30.9	30.9	31.4
7.5°	59.0	57.1	52.3	47.6	44.2	41.4	39.0	37.6	36.2	35.2	35.2
10°	65.2	62.3	58.0	53.8	50.0	46.2	43.3	40.9	38.5	37.1	36.6
12.5°	70.4	68.0	62.8	58.0	53.8	49.0	45.7	42.3	39.5	37.6	37.1
15°	75.2	72.3	67.1	61.9	56.6	51.4	47.1	43.3	40.4	38.1	38.1
17.5°	79.9	77.1	71.4	65.7	59.5	53.8	48.5	44.7	41.4	39.5	39.0
20°	84.7	81.4	75.7	69.5	62.3	56.1	50.4	46.2	42.8	41.4	40.9
22.5°	89.5	86.1	79.9	73.3	65.7	58.5	52.3	47.6	44.2	43.3	43.3
25°	94.2	90.4	83.7	76.6	68.5	61.4	54.7	49.5	46.2	45.2	45.7
27.5°	97.5	94.2	87.1	79.5	71.4	63.8	56.6	51.4	48.1	47.6	47.6
30°	100.9	97.1	89.5	81.8	73.7	66.1	59.0	53.3	50.4	50.0	50.4
32.5°	102.8	99.0	90.9	83.7	75.7	67.6	60.9	55.2	52.3	52.8	52.8
35°	103.7	99.9	92.8	85.2	77.1	69.5	62.8	57.6	55.7	55.7	55.7
37.5°	106.6	102.8	95.2	87.5	79.9	72.3	65.7	60.4	59.0	59.5	59.0
40°	113.7	109.9	101.3	92.8	84.7	76.6	69.5	64.2	63.3	63.8	63.3
42.5°	130.8	126.6	114.2	102.8	92.8	83.3	74.7	69.5	68.5	68.5	69.0
45°	156.1	150.4	136.6	119.4	106.6	93.7	82.8	76.1	74.7	74.2	73.7
47.5°	193.2	184.6	167.5	145.6	126.1	109.4	93.3	84.2	81.4	80.4	79.5
50°	241.7	232.2	207.0	178.4	156.5	129.9	107.5	94.7	89.5	86.6	85.6
52.5°	301.7	292.1	258.4	223.2	191.7	156.5	127.0	107.5	99.9	94.2	92.8
55°	362.1	352.1	314.5	266.4	231.7	184.1	148.5	122.8	111.8	102.8	101.8
57.5°	405.4	392.5	352.1	303.1	265.0	208.9	164.6	136.1	122.3	111.8	109.4
60°	434.9	421.6	382.1	328.3	290.7	227.9	177.9	147.5	133.2	121.8	119.9
62.5°	463.9	450.6	405.9	350.7	311.2	239.8	189.4	157.5	143.2	131.3	131.3
65°	491.0	476.8	428.2	373.5	331.2	251.2	199.8	167.5	154.2	142.7	145.1
67.5°	513.4	499.1	448.7	395.9	347.3	263.6	207.4	181.3	161.3	152.7	152.3
70°	539.6	522.9	470.1	414.9	367.3	279.3	215.1	192.2	171.8	162.7	155.1
72.5°	557.2	536.2	488.2	429.6	376.4	288.3	223.2	205.5	178.9	163.7	158.4
75°	576.2	557.2	505.3	442.0	392.5	296.4	227.9	211.3	182.2	164.2	158.0
77.5°	579.5	559.5	509.1	444.4	391.1	300.7	234.1	214.1	182.2	164.6	158.9
78°	585.2	564.3	512.0	448.2	392.5	297.9	232.7	216.0	182.7	164.6	158.4
80°	576.7	558.1	506.7	442.0	387.8	295.0	232.2	216.5	181.8	162.7	156.1
82.5°	567.2	550.5	496.7	434.9	381.6	290.7	228.9	208.9	177.5	157.0	150.8
85°	547.6	535.3	486.3	423.9	369.7	280.7	225.5	207.0	173.7	151.8	146.1
87.5°	532.9	521.5	472.0	416.8	363.0	272.6	218.9	201.7	169.4	147.0	141.3
90°	512.0	498.6	449.2	394.0	343.5	261.2	211.3	191.3	162.2	141.3	135.6
92.5°	483.9	472.9	425.8	372.1	325.0	244.6	197.9	180.3	150.8	133.2	127.0
95°	454.9	444.9	399.7	351.6	306.9	229.8	184.6	167.5	136.6	122.8	116.1
97.5°	421.6	412.5	369.7	322.6	279.8	210.8	166.5	150.8	120.4	107.5	103.2
100°	374.0	365.4	324.0	281.2	242.2	181.8	138.9	125.6	99.9	89.0	85.2
102.5°	288.3	281.2	245.5	211.3	177.9	132.3	98.5	90.4	75.7	66.1	63.3
105°	169.4	165.1	146.1	126.1	105.6	81.4	61.9	60.4	51.9	47.6	45.2
107.5°	109.9	106.6	95.6	84.2	71.8	57.1	45.7	43.3	38.5	36.6	35.7



REPORT NUMBER: P314637

CATALOG NUMBER: MPB-A3-D-U-ASYM-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	89.9	87.1	78.5	69.0	59.5	47.1	39.0	36.2	32.4	30.9	30.5
112.5°	79.9	77.6	69.9	61.4	53.3	42.3	35.2	32.4	29.0	27.6	27.1
115°	74.2	71.4	64.2	56.6	49.5	39.5	32.8	30.0	26.6	24.7	24.7
117.5°	69.5	66.6	60.4	53.3	46.2	36.6	30.5	27.1	24.3	22.4	21.9
120°	66.1	63.3	57.1	50.0	43.3	34.3	28.5	24.7	21.4	19.5	19.0
122.5°	62.3	59.5	53.3	46.6	39.5	31.4	25.7	21.9	19.0	17.1	16.7
125°	58.5	55.7	49.5	42.8	35.7	28.1	22.8	19.0	16.2	14.7	14.3
127.5°	54.2	51.4	45.2	38.5	31.9	24.7	20.0	16.7	13.8	12.4	11.9
130°	48.5	45.7	40.0	33.8	27.6	21.4	17.1	13.8	11.9	10.5	10.0
132.5°	41.9	39.0	33.8	28.5	23.3	18.1	13.8	11.4	9.5	8.6	8.1
135°	34.7	32.4	28.1	23.3	19.0	14.7	11.4	9.5	7.6	6.7	6.7
137.5°	27.1	25.2	21.4	18.1	14.7	11.4	8.6	7.1	6.2	5.2	5.2
140°	20.5	19.0	16.2	13.8	10.9	8.6	6.7	5.7	4.8	3.8	3.8
142.5°	15.7	14.7	12.4	10.5	8.6	6.2	4.8	3.8	3.3	2.9	2.9
145°	11.9	10.9	9.0	7.6	6.2	4.3	3.3	2.4	1.9	1.9	1.4
147.5°	8.1	7.6	6.2	4.8	3.8	2.4	1.9	1.4	1.0	1.0	0.5
150°	4.3	3.8	2.9	2.4	1.4	1.0	1.0	0.5	0.0	0.0	0.0
152.5°	1.4	1.4	1.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5

(END OF REPORT)