

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: P314553

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314553
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1906-378-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: MPN-A3-D-U-SYM
Description: NEW HAVEN 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: 2956 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.58')
IES Classification: Type V - 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

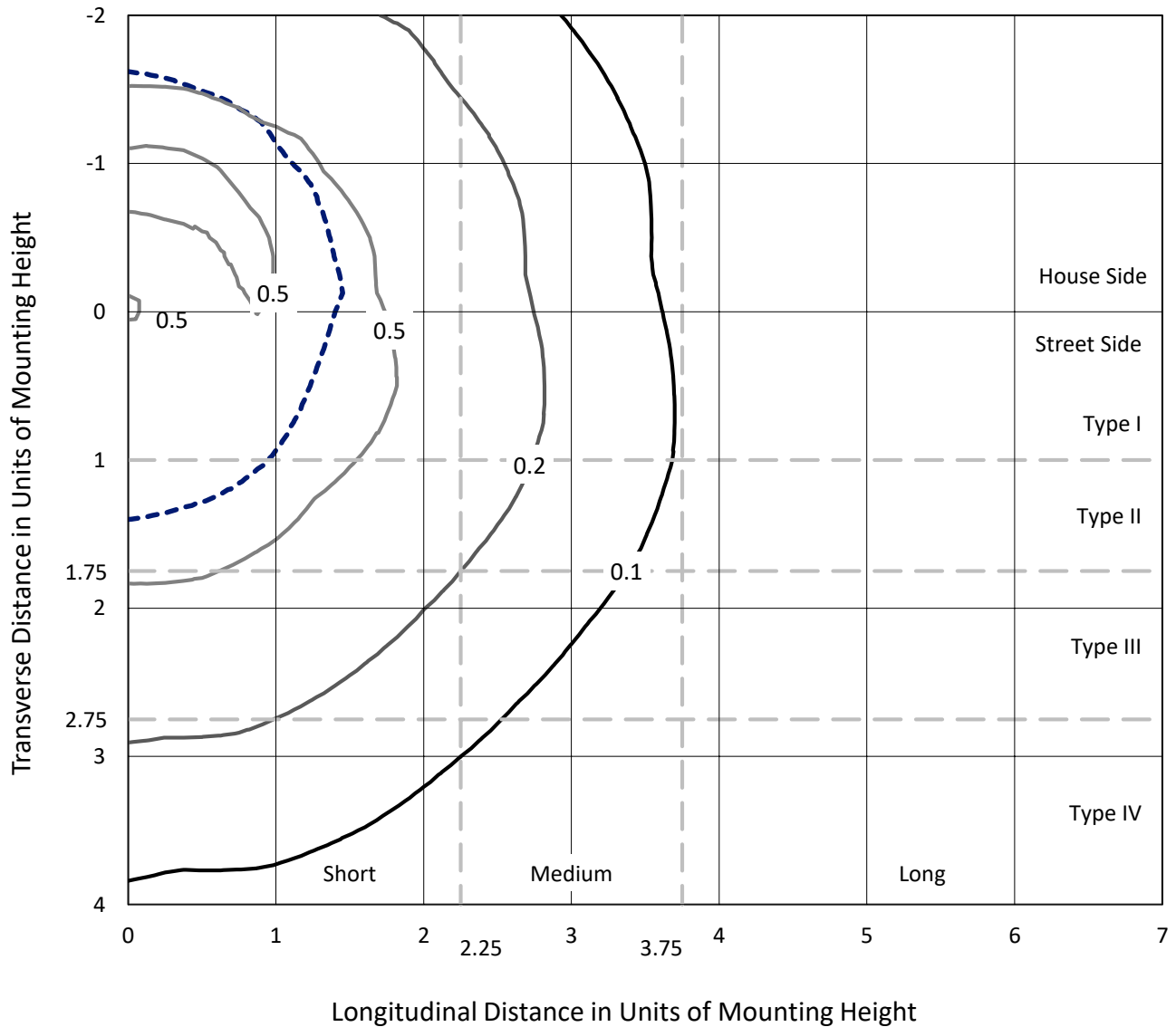




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Iso-Footcandle Lines of Horizontal Illumination

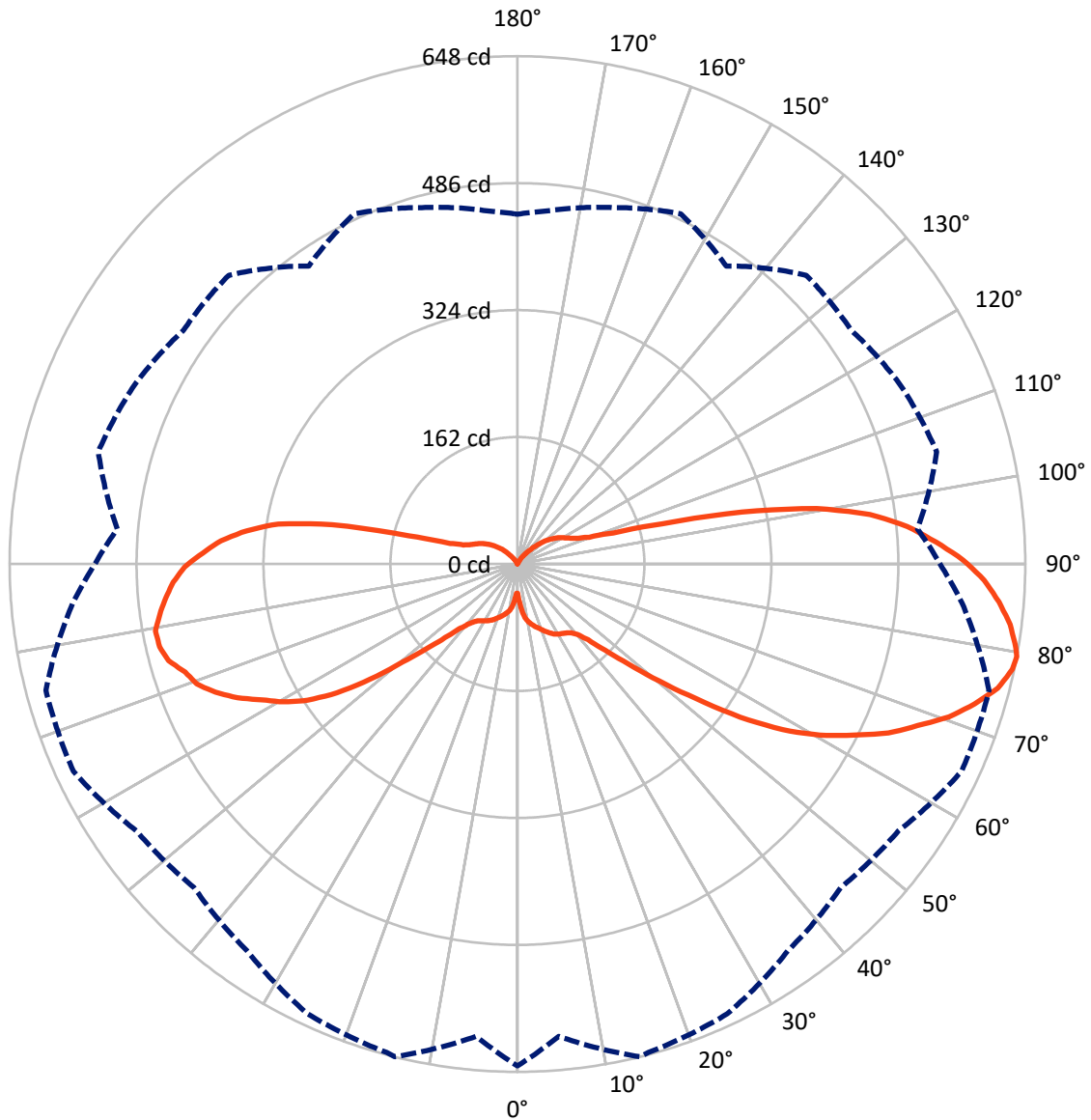
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 14-Deg Lateral - - - Horizontal Cone Through 79-Deg Vertical



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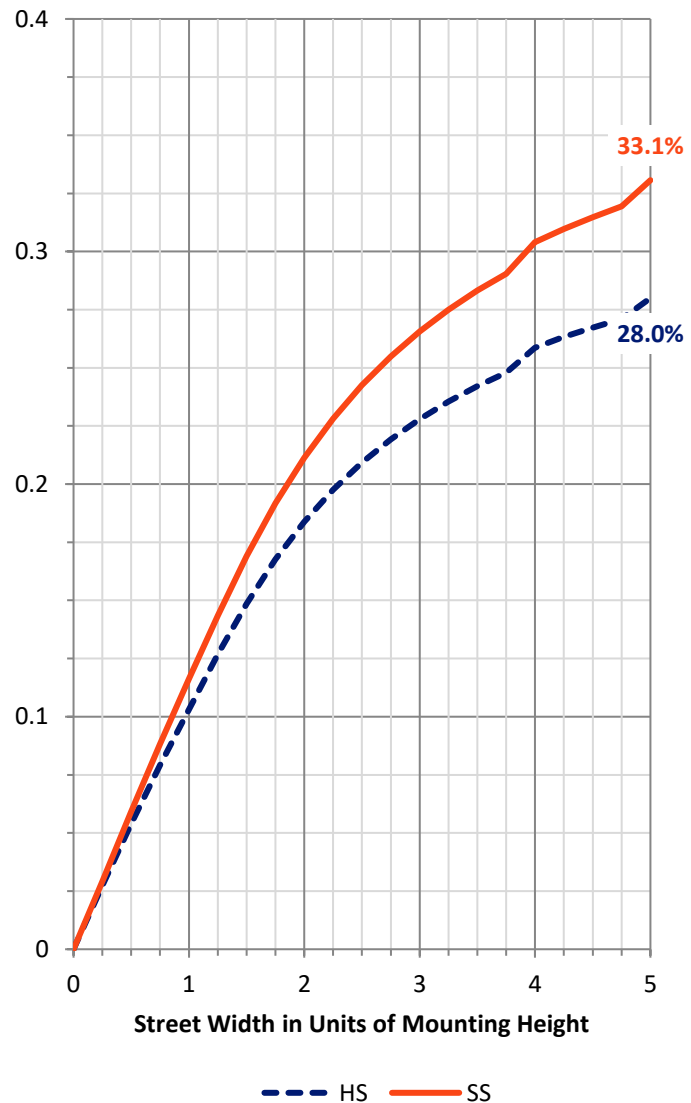
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	974.2	371.3	1345.5
	% Fixture	33.0	12.6	45.5
Street Side	Lumens	1165.4	445.1	1610.5
	% Fixture	39.4	15.1	54.5
Total	Lumens	2139.6	816.4	2956.0
	% Fixture	72.4	27.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.5	0.2
10°-20°	21.2	0.7
20°-30°	41.3	1.4
30°-40°	62.9	2.1
40°-50°	118.7	4.0
50°-60°	286.4	9.7
60°-70°	456.0	15.4
70°-80°	571.9	19.3
80°-90°	575.7	19.5
90°-100°	472.0	16.0
100°-110°	199.4	6.7
110°-120°	69.0	2.3
120°-130°	46.0	1.6
130°-140°	22.9	0.8
140°-150°	6.7	0.2
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2139.6	72.4
0°-180°	2956.0	100.0



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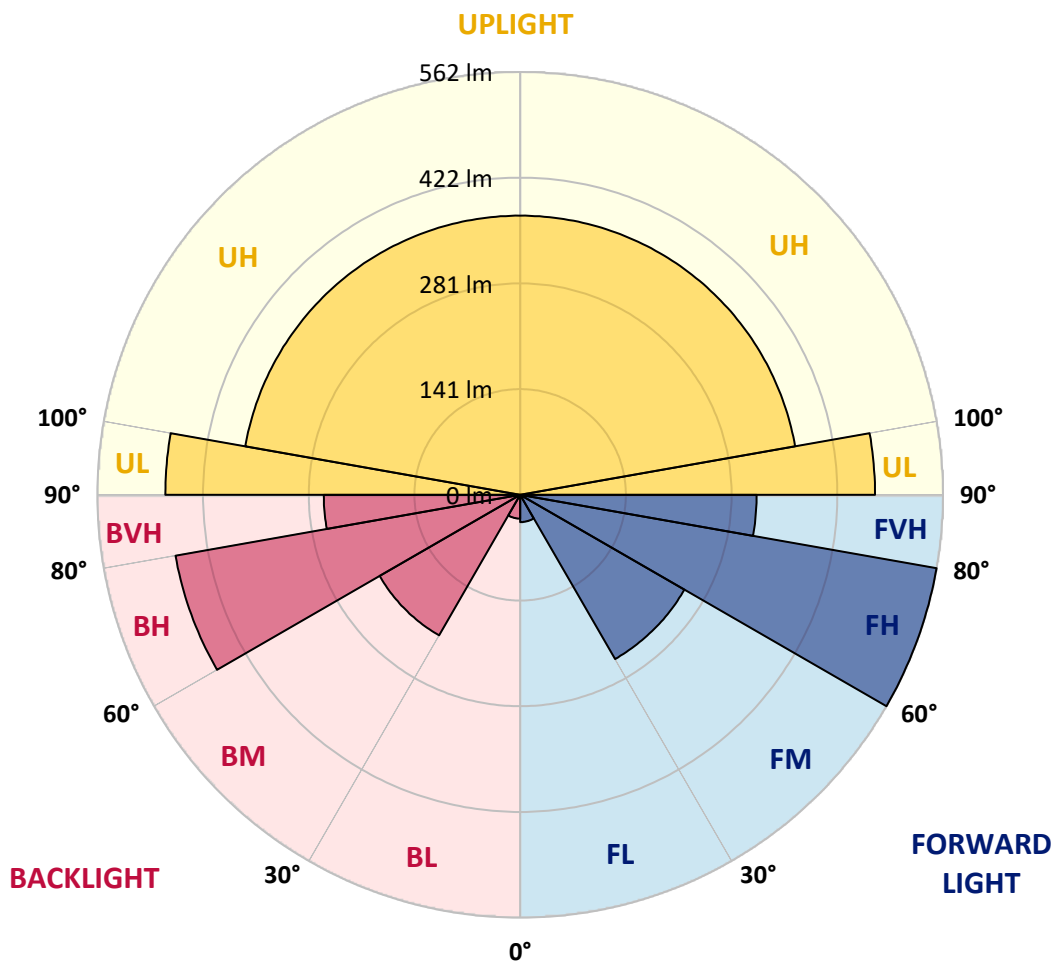
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	36.3	1.2			
FM	(30°-60°)	252.2	8.5			
FH	(60°-80°)	562.4	19.0			G0/660
FVH	(80°-90°)	314.5	10.6			G3/500
BL	(0°-30°)	31.7	1.1	B0/110		
BM	(30°-60°)	215.8	7.3	B0/220		
BH	(60°-80°)	465.5	15.7	B1/500		G0/660
BVH	(80°-90°)	261.2	8.8			G3/500
UL	(90°-100°)	472.0	16.0		U3/500	
UH	(100°-180°)	371.3	12.6		U3/500	

BUG Rating: B1-U3-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
0°	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4
2.5°	49.7	48.3	48.3	48.8	48.8	46.9	45.5	45.5	44.5	43.6	41.7
5°	60.6	59.7	59.7	59.7	59.7	60.2	58.7	57.8	55.9	54.9	53.5
7.5°	69.2	68.7	68.7	69.2	68.7	68.2	66.8	66.8	64.9	63.9	62.5
10°	75.3	74.8	74.8	74.8	73.9	72.9	72.0	71.5	70.1	68.7	67.3
12.5°	78.6	78.2	78.6	78.6	77.7	75.8	75.3	74.8	73.9	72.5	70.6
15°	82.4	81.9	82.4	82.4	81.0	80.1	79.1	78.6	77.7	76.7	74.8
17.5°	86.2	85.7	85.7	85.7	85.3	83.4	82.4	82.9	81.5	80.1	78.6
20°	90.5	90.0	89.5	89.5	89.1	87.2	86.7	86.2	85.3	83.8	82.4
22.5°	95.2	94.3	93.8	93.8	93.3	91.4	91.4	90.9	89.5	88.1	87.2
25°	99.9	99.5	97.6	97.6	97.1	95.7	96.2	95.2	93.8	91.9	91.4
27.5°	103.7	102.8	101.4	100.9	100.4	99.0	99.5	98.5	96.6	95.2	94.7
30°	106.1	105.6	103.7	103.7	102.3	101.8	101.8	100.4	98.5	97.1	97.6
32.5°	107.5	107.5	105.6	105.2	104.2	103.7	103.3	102.3	99.9	98.5	99.0
35°	109.9	109.4	108.0	107.5	106.1	106.1	105.2	103.7	100.9	100.4	100.9
37.5°	112.7	112.3	111.3	110.8	108.5	109.4	108.0	107.1	104.2	103.7	103.3
40°	119.4	119.4	117.9	117.9	115.1	117.5	116.1	116.5	113.7	113.2	111.3
42.5°	131.7	131.7	132.2	132.6	130.3	132.6	132.2	134.5	132.2	130.3	127.4
45°	155.8	153.9	156.8	155.8	154.4	156.8	155.8	159.2	158.2	155.8	153.0
47.5°	185.7	189.5	189.9	190.9	188.1	190.9	189.9	193.7	195.6	192.8	185.2
50°	226.9	230.7	234.9	234.9	232.6	233.5	233.1	238.7	241.1	241.6	231.2
52.5°	275.2	279.0	284.7	288.0	284.2	287.1	288.0	298.9	306.5	305.5	287.5
55°	332.1	337.7	344.8	346.7	340.1	342.0	342.9	356.7	371.8	369.9	346.7
57.5°	387.5	392.7	398.8	402.2	394.1	391.7	384.2	400.3	419.7	418.7	384.6
60°	432.9	436.7	443.4	446.7	438.6	433.9	417.8	434.8	457.1	458.5	418.7
62.5°	473.2	475.1	480.8	484.1	475.1	469.9	450.0	468.0	489.8	491.7	448.6
65°	508.7	505.9	520.1	521.1	508.3	500.2	481.3	500.7	521.5	522.9	474.2
67.5°	540.5	534.8	550.4	553.7	539.5	527.2	509.2	523.9	546.6	545.7	502.6
70°	568.9	561.3	584.1	585.9	567.0	550.4	540.0	548.5	574.1	574.6	527.2
72.5°	597.8	583.6	610.1	610.6	594.5	570.3	557.5	568.4	593.5	591.2	546.6
75°	620.5	595.4	633.3	631.4	616.7	587.4	575.1	583.6	613.4	612.5	559.9
77.5°	642.3	606.3	645.6	644.2	630.9	599.2	584.1	595.9	624.3	623.8	571.7
79°	640.4	604.9	648.0	645.2	633.3	602.1	583.6	593.5	625.3	622.9	569.4
80°	638.5	600.6	644.7	642.3	629.5	598.7	576.9	585.0	616.7	615.3	561.8
82.5°	625.3	590.2	633.3	630.0	619.1	591.2	570.3	577.9	615.3	610.6	554.7
85°	607.3	574.1	616.3	613.4	603.0	576.0	551.8	558.0	591.2	590.2	538.1
87.5°	584.1	553.7	595.9	593.1	583.6	558.9	534.8	541.9	575.5	575.1	520.1
90°	561.8	532.4	568.9	567.9	558.5	535.7	514.9	525.8	560.4	558.5	504.0
92.5°	528.2	501.6	534.8	535.3	526.3	507.3	487.9	496.9	523.9	523.4	473.2
95°	494.1	469.4	499.7	499.7	491.2	474.6	454.7	461.4	487.9	492.2	443.8
97.5°	449.1	427.3	454.3	455.2	448.6	434.4	417.3	425.8	451.4	455.7	411.6
100°	379.4	364.7	388.4	390.8	385.6	377.1	365.2	377.5	399.8	404.5	366.2
102.5°	277.6	273.3	294.2	293.2	291.3	288.9	286.1	292.7	307.4	314.5	275.2
105°	188.5	181.4	192.3	191.8	188.1	181.9	174.8	174.3	178.1	175.3	155.8
107.5°	126.9	124.1	128.4	128.8	126.0	120.8	114.2	113.7	117.0	115.1	104.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	96.6	95.2	97.6	98.1	96.6	92.4	89.1	89.1	92.4	90.9	84.3
112.5°	83.8	82.9	84.3	84.3	83.4	79.1	77.2	78.6	81.5	81.0	75.3
115°	76.3	75.8	76.3	76.7	75.3	71.5	70.6	72.0	74.8	74.4	69.6
117.5°	71.1	70.6	70.6	71.1	69.6	66.3	65.8	67.3	70.1	69.6	65.4
120°	66.3	66.3	66.3	66.3	65.4	62.5	62.1	63.9	66.3	65.8	62.1
122.5°	61.6	61.6	61.6	61.6	60.6	58.7	58.7	60.6	62.5	62.1	58.7
125°	56.4	56.4	55.9	56.4	55.4	54.5	54.5	56.4	57.8	57.8	54.9
127.5°	51.2	51.2	50.2	50.7	49.7	49.3	49.7	51.6	53.1	53.1	51.2
130°	45.5	45.0	44.1	44.5	43.6	43.6	44.5	46.4	47.4	47.8	45.9
132.5°	38.8	38.4	37.4	37.4	37.4	37.4	38.4	39.8	41.2	41.2	40.3
135°	32.2	31.7	30.8	30.8	30.8	30.3	31.7	33.2	34.1	34.1	33.2
137.5°	25.1	25.1	24.2	24.6	24.2	23.7	24.6	25.6	26.1	26.5	25.6
140°	19.9	19.9	19.4	18.9	18.5	18.0	18.5	18.9	19.4	19.9	19.4
142.5°	15.6	15.6	15.2	15.2	14.7	14.2	14.2	14.7	15.6	15.6	15.2
145°	11.8	11.8	11.8	11.4	10.9	10.9	10.9	11.4	11.8	11.8	11.8
147.5°	8.5	8.1	8.1	8.1	7.6	7.6	8.1	8.1	8.5	8.5	8.5
150°	4.3	4.3	4.3	4.3	4.3	4.3	4.7	4.7	5.2	5.2	4.7
152.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9
155°	0.0	0.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.5	0.5	0.0	0.0	0.0	0.0	0.5	0.0	0.0
165°	0.0	0.0	0.5	0.5	0.5	0.0	0.0	0.0	0.5	0.5	0.0
167.5°	0.5	0.0	0.5	0.5	0.5	0.0	0.5	0.0	0.5	0.5	0.0
170°	0.0	0.0	0.5	0.5	0.5	0.0	0.0	0.0	0.5	0.0	0.0
172.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.5	0.5	0.0
175°	0.0	0.0	0.5	0.5	0.5	0.0	0.0	0.0	0.5	0.5	0.0
177.5°	0.5	0.0	0.5	0.5	0.5	0.5	0.5	0.0	0.5	0.5	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4
2.5°	41.2	40.7	39.8	40.3	38.8	38.4	37.9	37.4	37.4	37.4	36.9
5°	52.6	51.6	49.3	48.3	48.3	47.4	47.4	46.9	46.9	46.9	46.9
7.5°	61.6	61.1	58.7	56.8	55.9	55.4	55.4	54.9	54.9	54.5	54.0
10°	66.3	65.4	63.9	63.0	62.1	61.1	60.2	60.6	60.2	59.2	59.2
12.5°	70.1	69.2	67.7	66.8	65.8	64.4	63.9	63.9	63.5	62.1	62.1
15°	73.9	72.9	72.0	70.6	69.6	68.2	67.3	67.3	66.8	65.4	64.9
17.5°	77.7	77.2	75.8	74.4	73.4	72.0	70.6	70.1	69.6	68.7	68.2
20°	81.9	81.0	79.6	78.2	76.7	75.8	74.4	72.9	72.5	72.0	71.5
22.5°	86.7	85.3	83.8	81.9	80.5	80.1	77.7	76.3	75.8	74.8	74.8
25°	90.9	89.1	87.6	86.2	84.3	83.8	81.5	79.6	78.6	78.2	78.2
27.5°	94.3	92.4	90.9	89.5	87.6	87.2	84.3	82.4	81.0	81.0	81.5
30°	96.6	95.2	93.8	91.9	90.9	90.5	87.2	84.8	83.4	83.8	83.8
32.5°	98.5	97.1	95.7	93.8	92.8	92.4	89.5	86.7	85.3	85.7	85.7
35°	99.9	99.0	97.6	95.7	95.2	94.3	91.4	88.6	87.6	88.6	88.1
37.5°	102.8	101.4	99.9	97.6	98.5	97.1	94.7	91.9	91.9	93.3	92.8
40°	109.9	108.0	106.1	103.3	103.7	103.3	101.8	99.5	99.5	101.4	100.9
42.5°	124.6	121.7	118.4	114.6	114.6	113.7	111.8	110.8	111.3	112.7	112.7
45°	146.8	141.6	139.3	134.5	133.6	132.6	130.7	128.8	131.7	131.2	132.2
47.5°	178.6	171.5	168.6	162.5	161.5	161.1	158.2	156.3	157.3	158.2	160.6
50°	221.7	211.3	207.9	201.8	200.4	198.5	192.8	190.4	192.3	193.7	195.6
52.5°	278.1	260.1	259.1	253.4	245.4	248.7	241.1	237.3	238.7	238.3	240.6
55°	333.9	313.1	315.5	307.9	297.0	300.8	286.1	285.6	283.3	281.4	282.3
57.5°	372.8	352.4	361.9	352.4	338.7	342.5	323.1	320.7	319.7	314.1	312.2
60°	402.6	381.8	396.0	382.7	367.6	377.5	350.1	351.9	347.2	341.1	336.8
62.5°	429.2	407.8	424.9	409.7	393.2	403.6	372.8	378.9	369.5	364.3	356.7
65°	454.3	434.4	451.9	438.2	415.9	430.6	395.5	406.9	396.9	387.5	380.4
67.5°	478.4	459.0	479.4	465.6	441.5	455.7	413.1	430.1	419.7	409.3	400.7
70°	498.8	478.4	502.1	489.3	463.3	472.7	422.1	452.4	437.7	428.2	416.4
72.5°	517.7	494.1	523.4	511.6	484.1	492.2	435.3	469.9	446.7	437.7	429.2
75°	530.1	504.0	540.9	527.2	504.9	509.2	451.4	483.6	463.3	448.6	441.9
77.5°	541.4	513.0	551.8	535.7	515.4	517.7	461.8	493.1	470.4	453.8	445.3
79°	539.1	512.5	553.7	539.5	520.1	521.1	464.2	493.1	470.8	452.4	446.2
80°	533.4	508.3	549.0	532.9	513.5	514.9	461.8	489.3	472.3	447.2	441.5
82.5°	527.2	501.2	541.9	527.2	507.8	506.4	458.5	483.6	462.8	442.4	436.3
85°	511.1	488.4	526.7	512.1	495.9	493.6	448.1	471.3	453.3	427.7	422.5
87.5°	495.9	473.7	512.5	498.3	482.7	480.8	439.6	462.8	442.4	414.9	412.1
90°	479.4	456.6	493.1	478.9	461.4	458.1	420.6	443.8	427.3	400.7	397.9
92.5°	449.5	429.2	463.7	451.4	436.7	434.4	398.4	419.7	404.1	380.4	377.5
95°	422.5	403.1	433.9	423.5	409.7	409.3	373.7	396.5	381.3	360.0	358.6
97.5°	393.2	374.2	400.7	391.3	377.5	376.1	342.9	363.3	350.1	330.6	329.2
100°	346.7	330.6	348.2	341.1	324.9	329.2	299.8	321.6	311.2	294.2	290.8
102.5°	260.1	247.3	252.9	247.3	233.1	239.2	224.1	247.3	243.0	233.5	230.7
105°	147.3	143.5	147.3	145.4	140.2	138.8	131.2	146.8	143.5	140.2	138.3
107.5°	99.5	96.6	99.9	98.5	92.4	91.9	86.2	93.3	90.0	87.2	85.7



REPORT NUMBER: P314553

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	81.0	78.6	81.0	80.5	76.3	74.8	70.6	75.3	72.9	70.6	69.6
112.5°	72.5	70.6	72.5	72.0	67.7	67.3	63.9	67.7	65.8	63.9	63.5
115°	67.3	65.4	66.8	66.3	62.5	62.1	59.2	62.5	61.1	59.2	58.7
117.5°	63.5	61.6	62.5	61.6	58.7	57.8	55.4	58.3	57.3	54.9	54.5
120°	60.2	58.3	59.2	57.8	54.9	54.0	52.1	54.0	53.1	51.6	51.2
122.5°	57.3	55.4	55.9	54.0	51.2	49.7	48.3	49.3	48.8	47.4	46.9
125°	53.5	51.6	51.6	49.7	46.4	45.5	44.1	44.5	44.1	43.6	43.1
127.5°	49.3	47.8	46.9	45.0	42.2	40.3	39.3	39.8	39.8	39.3	38.8
130°	44.5	43.1	41.2	39.3	36.9	35.5	34.1	35.1	35.1	35.1	35.1
132.5°	38.8	37.4	35.5	33.6	31.3	30.3	28.9	29.8	30.3	30.8	30.3
135°	32.2	31.3	29.4	27.5	25.6	24.2	23.7	24.6	25.6	25.6	25.1
137.5°	25.1	24.2	23.2	21.8	19.9	18.9	18.5	19.4	20.4	20.4	19.9
140°	18.9	18.9	18.0	16.6	14.7	14.2	14.2	14.7	15.2	15.2	14.7
142.5°	14.7	14.7	13.7	12.8	11.4	10.9	10.9	11.4	11.8	11.8	11.4
145°	11.4	11.4	10.4	9.5	8.5	8.1	8.1	8.5	9.0	9.0	8.5
147.5°	8.5	8.1	7.1	6.6	5.7	5.7	5.7	5.7	6.2	6.2	6.2
150°	4.7	4.7	4.3	3.3	2.8	2.8	2.8	3.3	3.8	3.8	3.3
152.5°	0.9	0.9	0.9	0.9	0.5	0.0	0.5	0.5	0.5	0.5	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	0.5	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.0	0.0
167.5°	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.5	0.5	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.0	0.0
172.5°	0.0	0.0	0.5	0.5	0.0	0.0	0.0	0.5	0.5	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.0	0.0
177.5°	0.0	0.0	0.5	0.5	0.0	0.5	0.0	0.5	0.5	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)