

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: P314571

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314571
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1906-378-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: MPN-A3-D-U-ASYM
Description: NEW HAVEN POST TOP LUMINAIRE
(1) 70 CRI, 4000K LIGHT ENGINE. ASYMMETRIC DISTRIBUTION.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2907 lumens
Efficiency: N/A
Efficacy: 100.9 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

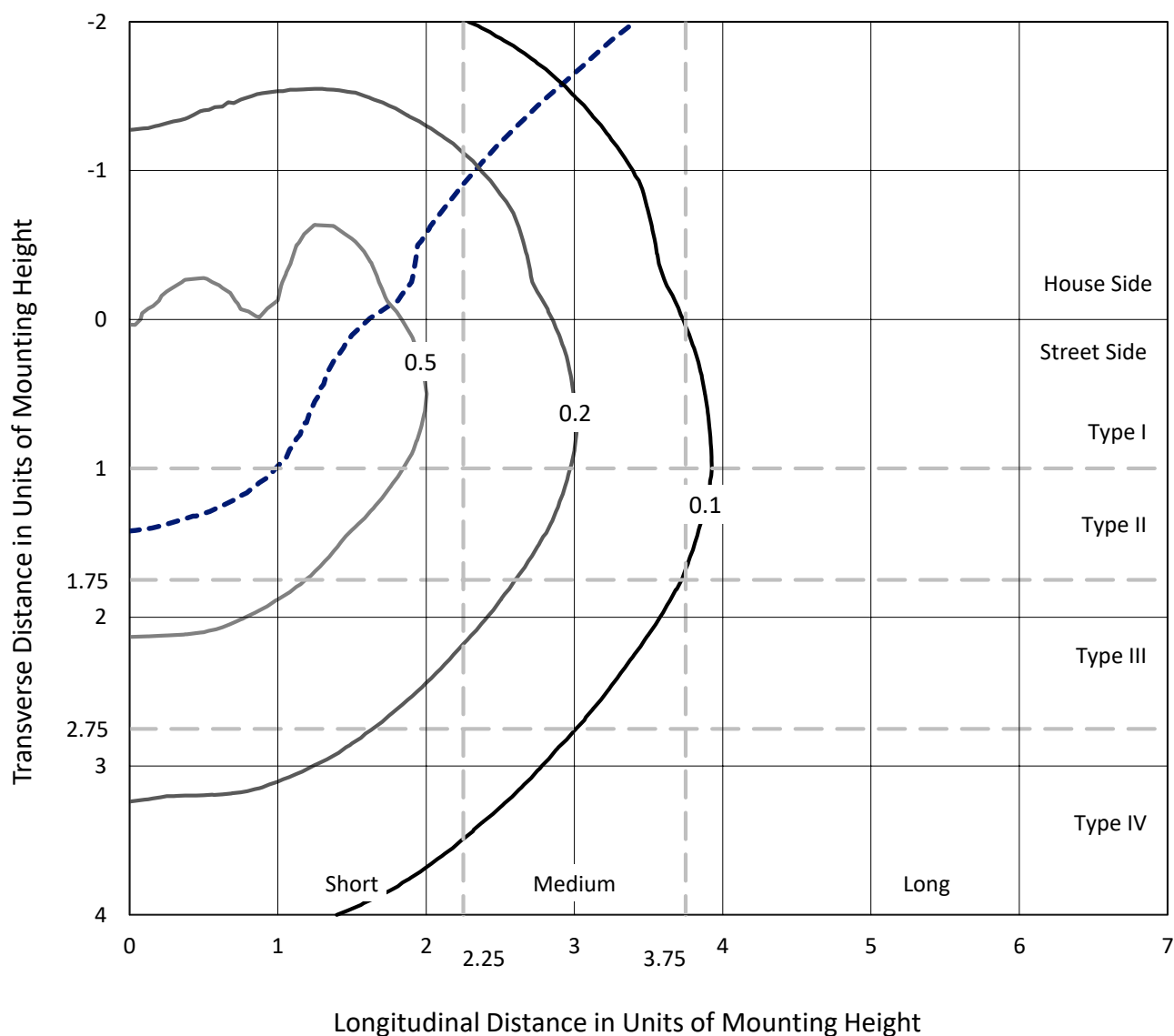


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

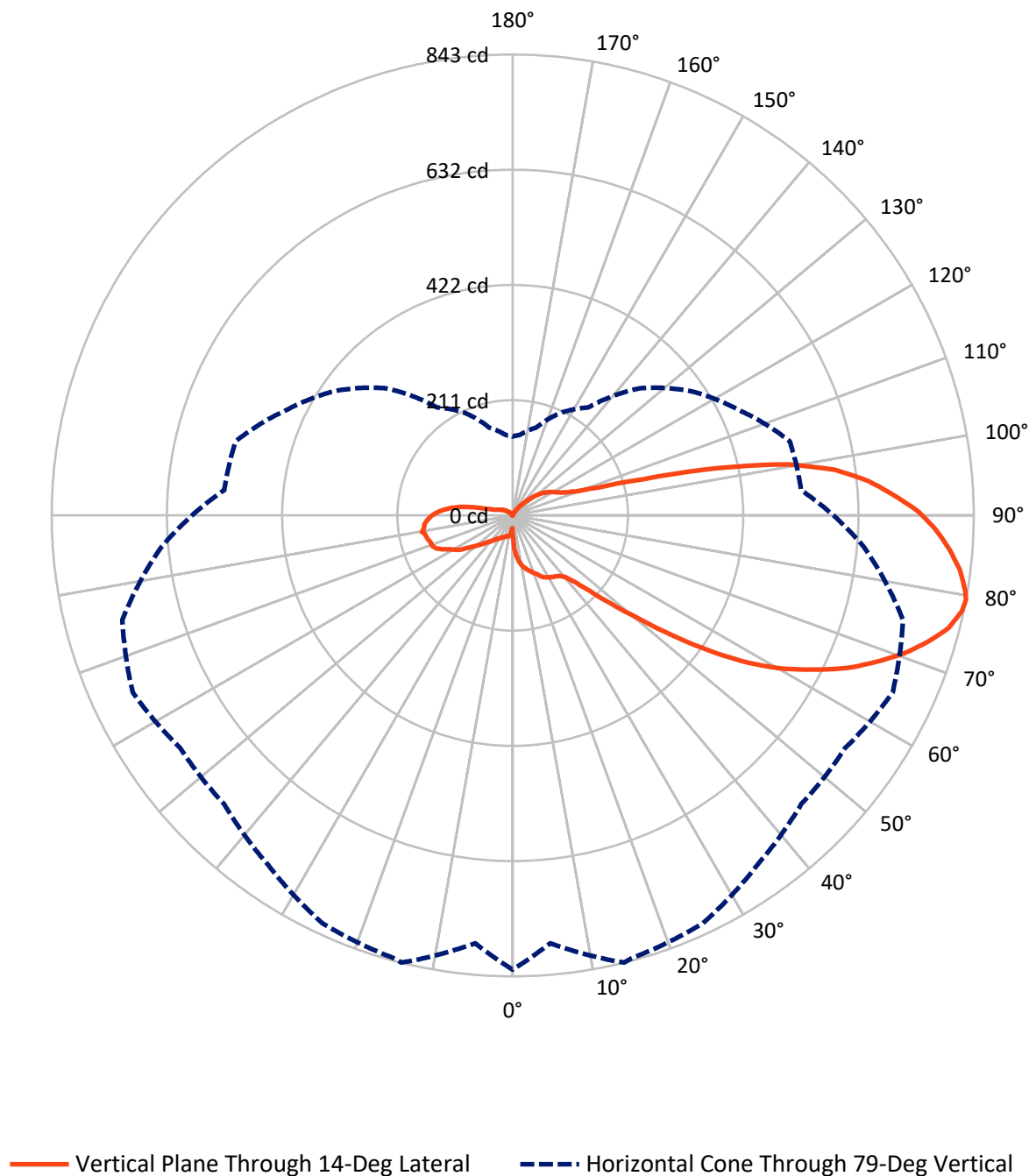


Based on 10 foot mounting height. Maximum calculated value = 1 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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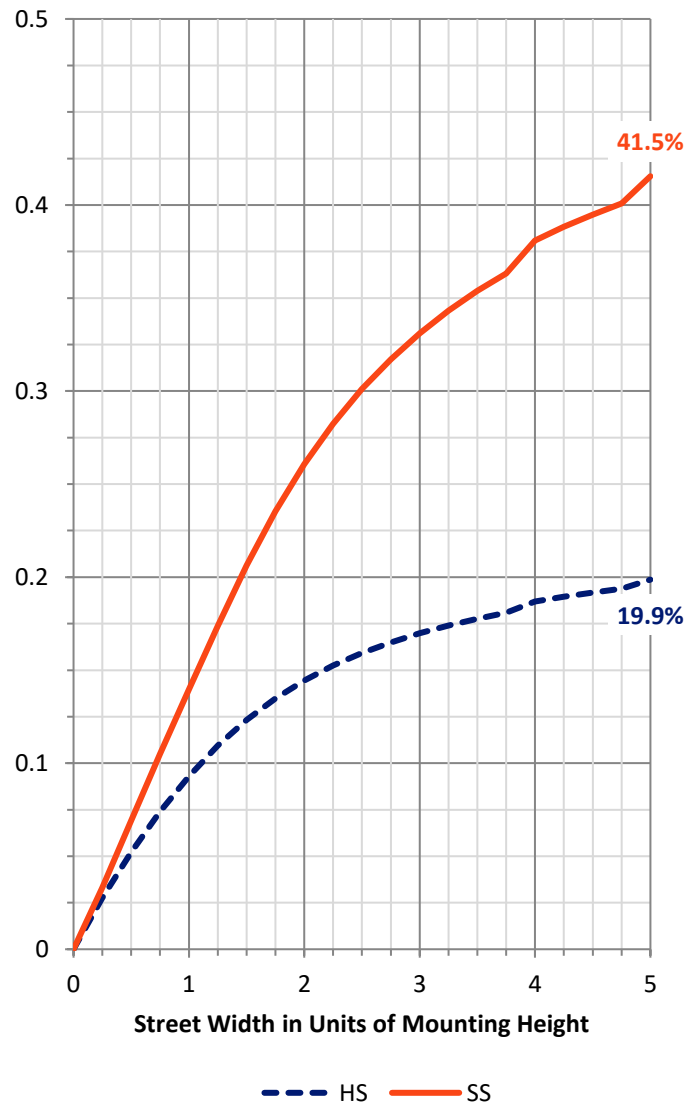
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	657.6	243.5	901.1
	% Fixture	22.6	8.4	31.0
Street Side	Lumens	1448.3	557.6	2005.9
	% Fixture	49.8	19.2	69.0
Total	Lumens	2106.0	801.0	2907.0
	% Fixture	72.4	27.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.4	0.2
10°-20°	20.8	0.7
20°-30°	40.7	1.4
30°-40°	62.1	2.1
40°-50°	116.6	4.0
50°-60°	280.4	9.6
60°-70°	449.0	15.4
70°-80°	563.7	19.4
80°-90°	567.3	19.5
90°-100°	463.1	15.9
100°-110°	195.9	6.7
110°-120°	67.8	2.3
120°-130°	45.2	1.6
130°-140°	22.4	0.8
140°-150°	6.4	0.2
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2106.0	72.4
0°-180°	2907.0	100.0

Coefficient of Utilization



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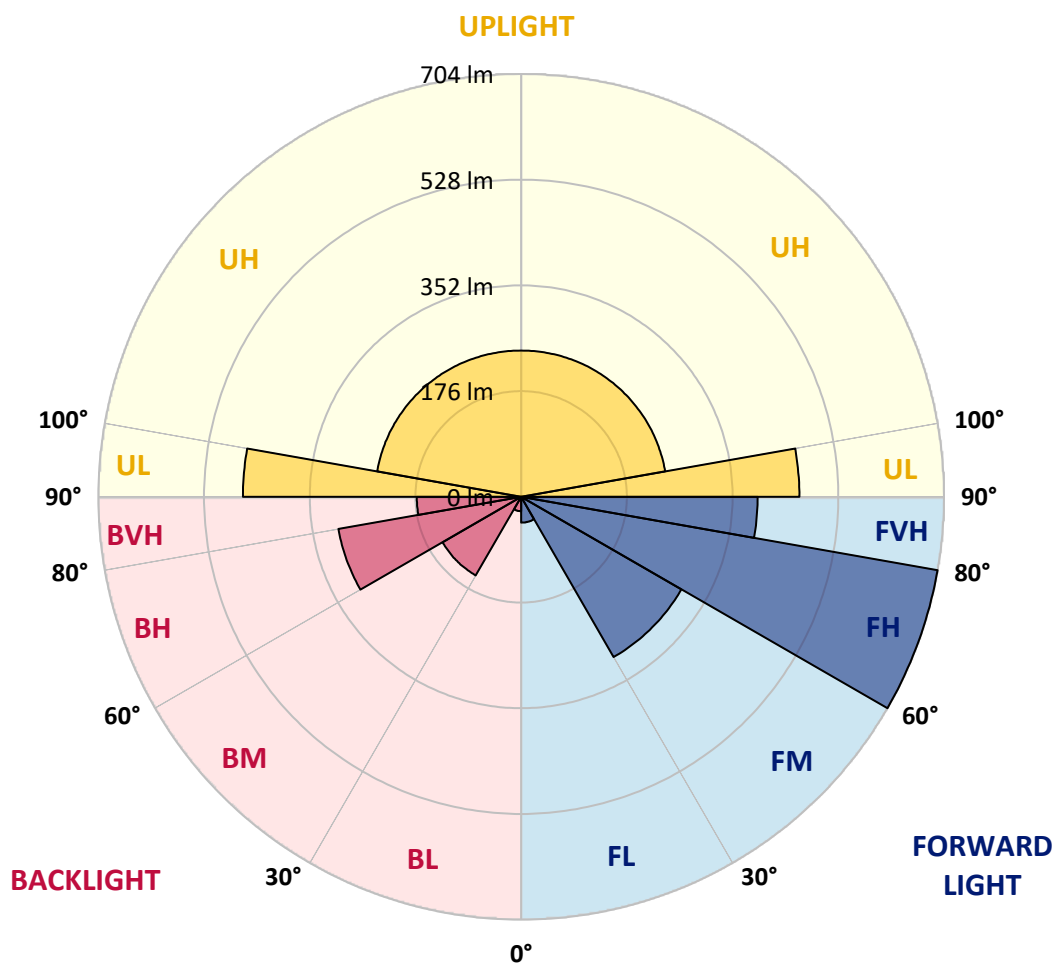
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	43.0	1.5			
FM	(30°-60°)	307.9	10.6			
FH	(60°-80°)	703.8	24.2			G1/1800
FVH	(80°-90°)	393.6	13.5			G3/500
BL	(0°-30°)	23.9	0.8	B0/110		
BM	(30°-60°)	151.1	5.2	B0/220		
BH	(60°-80°)	308.9	10.6	B1/500		G1/500
BVH	(80°-90°)	173.7	6.0			G2/225
UL	(90°-100°)	463.1	15.9		U3/500	
UH	(100°-180°)	243.5	8.4		U3/500	

BUG Rating: B1-U3-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
0°	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1
2.5°	63.4	61.5	61.5	61.5	60.0	57.6	55.1	53.7	50.2	47.3	42.9
5°	77.1	76.1	75.1	75.1	73.7	73.2	70.7	66.8	62.9	59.0	54.1
7.5°	87.3	86.3	85.4	85.9	83.9	82.0	79.5	76.1	72.2	68.3	63.4
10°	94.1	93.7	93.2	93.2	90.7	88.3	85.4	82.4	78.1	73.7	68.3
12.5°	99.0	98.5	98.5	98.5	96.1	92.7	90.2	86.8	82.9	78.1	72.7
15°	103.9	103.9	103.4	102.9	100.5	97.6	95.1	92.2	88.3	82.9	77.6
17.5°	108.8	108.3	107.8	107.8	105.4	102.4	100.0	97.6	92.7	87.3	82.0
20°	114.6	113.7	112.7	112.7	110.2	106.8	104.9	102.4	97.6	92.2	86.3
22.5°	120.5	119.5	117.6	117.6	115.6	111.7	110.7	107.8	102.9	97.1	91.2
25°	126.8	126.3	124.4	123.9	121.5	116.6	115.6	113.2	107.8	102.0	96.1
27.5°	131.7	131.2	128.3	128.3	126.3	122.0	119.5	116.6	111.2	104.9	100.0
30°	135.1	134.6	131.7	131.2	128.8	125.9	122.9	118.5	113.2	106.8	102.4
32.5°	136.6	136.6	134.2	133.7	130.7	128.3	125.4	121.0	114.1	108.3	103.4
35°	139.5	139.0	136.6	136.1	132.7	130.7	126.8	121.5	115.1	109.3	104.4
37.5°	142.4	142.4	140.5	140.0	136.1	134.2	130.2	125.4	118.5	112.7	107.3
40°	149.3	149.8	148.3	147.8	143.9	142.9	139.5	136.1	131.2	125.4	116.1
42.5°	164.9	165.4	165.9	164.9	162.0	160.5	157.6	157.1	152.7	145.4	136.6
45°	191.7	194.6	196.1	194.6	190.7	190.2	187.8	188.8	185.4	178.1	166.8
47.5°	232.7	234.6	240.0	240.0	234.6	233.2	231.2	231.7	231.7	223.4	206.3
50°	284.4	288.3	292.2	295.1	292.7	288.8	286.4	291.2	295.1	283.4	260.5
52.5°	347.3	351.2	362.9	362.0	359.0	357.1	358.5	367.8	376.6	366.4	329.8
55°	421.0	426.4	437.1	439.5	433.7	431.2	429.8	443.4	458.1	447.3	398.1
57.5°	494.6	500.0	509.3	513.2	505.4	497.6	483.4	498.6	516.6	502.9	443.4
60°	556.1	559.0	569.3	573.7	565.4	554.2	528.3	543.4	563.4	548.8	482.0
62.5°	611.7	612.7	621.0	624.9	615.1	603.4	572.7	585.9	602.5	588.3	515.6
65°	655.6	655.1	672.7	674.2	659.0	642.9	613.7	625.9	639.0	623.9	543.4
67.5°	700.0	694.7	715.6	717.1	702.0	681.0	651.2	657.6	665.9	654.7	574.2
70°	736.6	729.8	757.6	760.0	737.6	709.8	685.9	689.8	702.0	684.4	599.5
72.5°	774.7	758.1	792.7	794.2	773.7	737.1	713.2	712.2	726.4	706.9	618.6
75°	805.4	773.2	823.0	821.0	802.0	761.0	734.7	732.7	751.2	727.8	632.7
77.5°	833.7	787.3	840.0	838.1	820.5	775.6	746.4	744.4	764.4	739.5	645.4
79°	830.8	785.4	843.0	838.6	823.0	780.0	746.4	742.0	766.4	739.0	643.4
80°	831.2	779.5	839.1	835.1	818.1	775.6	738.6	731.7	753.7	726.9	634.2
82.5°	811.7	765.9	823.9	818.1	804.9	765.9	728.8	723.4	752.7	722.9	630.3
85°	791.2	744.9	801.5	797.6	785.4	746.9	708.8	695.6	721.5	692.2	608.3
87.5°	759.0	718.6	774.7	771.7	760.0	725.9	685.9	676.6	703.9	677.6	593.2
90°	731.2	691.2	742.5	739.5	728.8	695.6	659.0	657.6	685.4	659.0	574.2
92.5°	688.8	651.2	698.6	695.1	687.3	659.0	625.4	621.0	643.9	614.7	537.6
95°	646.4	610.3	653.7	652.2	642.0	617.6	585.4	577.1	600.0	578.6	506.4
97.5°	590.3	556.1	596.1	595.6	588.3	565.4	538.1	534.7	558.6	536.6	471.7
100°	503.4	473.7	511.7	507.3	508.3	489.8	467.3	474.2	498.1	482.5	423.9
102.5°	374.2	359.5	382.5	384.4	385.9	373.2	364.9	363.9	386.8	372.7	325.9
105°	243.9	237.1	248.8	250.7	247.8	238.5	216.1	218.1	220.5	208.8	181.5
107.5°	162.9	160.0	164.9	165.9	163.4	155.6	142.4	141.0	142.0	135.6	119.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	124.9	123.4	126.3	126.8	124.9	117.6	110.2	109.8	110.7	106.3	95.1
112.5°	106.8	105.9	107.3	107.3	105.9	100.5	96.1	96.1	97.6	94.1	84.9
115°	97.6	96.6	97.1	97.6	95.6	90.7	87.3	88.3	89.8	86.8	78.5
117.5°	90.7	90.2	90.2	90.2	88.8	84.4	82.4	82.9	84.4	81.5	74.1
120°	84.9	84.9	84.4	84.4	82.9	79.5	78.1	79.0	80.0	77.6	70.7
122.5°	79.0	79.0	78.5	78.5	77.6	74.6	73.7	75.1	76.1	73.2	67.3
125°	72.7	72.7	71.7	71.7	70.7	69.3	68.8	70.2	71.2	68.8	62.9
127.5°	65.9	65.9	64.4	64.9	63.4	62.9	62.9	64.9	65.9	63.9	58.5
130°	58.5	58.1	56.1	56.6	55.6	55.6	56.6	58.1	59.0	57.1	52.7
132.5°	49.8	49.8	47.3	47.8	47.3	47.8	48.8	50.2	50.7	49.8	45.9
135°	41.0	41.0	39.0	39.5	39.0	39.0	40.5	41.5	42.4	41.5	38.0
137.5°	32.7	32.7	30.7	31.2	30.7	30.2	31.2	31.7	32.2	31.2	29.8
140°	25.4	25.4	24.4	24.4	23.4	22.9	23.4	23.9	23.9	23.4	22.4
142.5°	20.0	20.5	19.5	19.5	18.0	18.0	18.0	18.5	18.5	18.5	17.6
145°	15.1	15.6	14.6	14.6	13.7	13.7	13.7	14.1	14.1	14.1	13.2
147.5°	10.7	10.7	10.2	10.2	9.3	9.8	9.8	10.2	10.2	9.8	9.3
150°	5.4	5.4	5.4	5.4	5.4	5.4	5.9	5.9	5.9	5.9	5.4
152.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0
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	0.5	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.0	0.0
165°	0.0	0.0	0.0	0.5	0.0	0.5	0.5	0.5	0.5	0.0	0.0
167.5°	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0
170°	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0
172.5°	0.5	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0
175°	0.5	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
177.5°	0.5	0.0	0.5	0.5	0.5	0.5	0.5	0.5	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°	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1
2.5°	41.5	39.5	36.6	33.7	30.2	27.8	25.4	24.4	23.4	22.4	22.4
5°	51.2	48.8	44.9	40.5	38.0	34.6	32.7	30.7	29.8	29.8	29.8
7.5°	61.5	59.0	53.7	47.8	44.9	41.0	39.5	37.6	36.1	34.6	34.1
10°	65.9	63.4	58.5	53.7	49.8	45.9	42.4	40.5	38.0	36.6	36.6
12.5°	70.2	67.3	62.4	57.6	52.7	47.8	44.4	41.5	39.0	37.1	36.6
15°	74.6	71.7	66.3	61.0	55.1	49.8	45.9	42.4	39.5	37.6	37.1
17.5°	79.0	76.1	70.2	64.4	58.1	52.2	47.8	43.4	40.5	38.5	38.0
20°	83.4	80.0	74.1	67.8	61.0	55.1	49.3	44.9	42.0	40.0	39.5
22.5°	88.3	84.4	78.1	71.2	63.9	58.1	51.2	46.3	42.9	41.5	41.5
25°	93.2	88.3	82.0	74.1	67.3	61.0	53.2	47.8	44.4	43.4	43.9
27.5°	96.6	91.2	84.9	77.1	69.8	63.4	55.6	49.3	45.9	45.9	45.9
30°	98.5	94.1	87.3	79.5	72.7	65.9	57.6	51.2	47.8	47.8	47.8
32.5°	99.5	95.1	88.3	81.0	74.6	68.3	59.5	53.2	49.8	50.2	50.2
35°	100.5	96.6	89.8	82.4	76.6	69.8	62.0	55.6	52.7	53.2	52.7
37.5°	102.9	98.5	91.7	84.4	79.0	72.2	64.9	58.5	56.1	56.6	56.1
40°	110.7	105.4	98.1	89.3	83.9	76.1	68.8	62.0	60.5	60.5	60.0
42.5°	126.8	119.5	110.7	100.0	92.2	82.4	74.1	66.8	64.9	64.4	63.9
45°	154.2	142.4	133.2	117.6	105.4	92.7	82.0	72.7	70.2	69.3	68.8
47.5°	189.3	175.6	163.4	146.3	127.3	107.8	93.7	81.0	77.1	75.1	74.1
50°	240.5	217.6	201.5	180.5	156.1	128.8	108.3	91.7	84.9	80.5	79.5
52.5°	302.0	271.7	254.6	224.9	191.2	154.6	126.8	102.9	93.2	87.3	86.8
55°	365.4	327.3	307.3	273.7	228.3	185.4	148.3	117.1	103.4	95.6	94.6
57.5°	407.8	366.4	346.8	311.2	259.5	213.7	168.3	130.2	117.1	104.9	103.9
60°	440.0	395.6	377.6	334.6	281.0	235.6	182.4	142.9	124.4	112.7	110.7
62.5°	467.8	420.0	405.9	354.6	300.5	251.2	194.2	154.2	132.7	122.4	119.0
65°	495.6	446.8	429.8	377.1	316.1	266.8	205.4	167.3	145.4	130.7	130.7
67.5°	522.0	472.2	454.2	398.5	335.6	282.0	213.2	178.1	154.2	139.5	139.5
70°	545.9	490.7	476.6	418.1	354.6	294.2	212.7	188.3	159.0	145.9	140.0
72.5°	565.9	507.8	494.2	435.1	369.8	307.3	218.1	198.5	159.0	147.8	144.4
75°	576.6	520.0	511.2	445.4	386.4	318.1	226.8	199.5	162.9	147.3	144.9
77.5°	589.3	530.7	522.0	454.2	393.7	326.4	236.1	206.3	164.9	148.3	143.9
79°	586.4	529.3	524.4	456.1	396.6	328.8	241.0	206.8	166.3	147.8	144.4
80°	579.5	525.4	517.6	448.3	393.2	324.9	241.0	206.8	171.2	146.8	142.9
82.5°	573.7	520.5	513.7	445.9	387.3	318.1	241.5	206.3	165.9	143.9	140.5
85°	556.1	506.4	496.1	431.7	378.5	310.3	238.1	203.9	164.9	137.1	135.1
87.5°	539.0	490.7	483.4	419.5	366.4	300.5	233.7	198.1	158.5	132.2	130.7
90°	522.0	474.2	465.4	404.9	351.2	284.9	222.0	189.8	152.2	123.4	123.9
92.5°	489.3	446.4	437.1	381.0	329.3	267.8	208.3	177.1	142.0	117.1	114.6
95°	459.5	419.0	409.8	358.5	307.8	250.7	191.2	163.4	129.8	107.3	105.9
97.5°	429.8	389.8	380.0	332.7	282.9	229.8	172.2	146.8	114.6	95.6	92.7
100°	383.4	347.3	334.6	290.3	240.5	197.1	143.9	122.9	95.6	79.5	76.1
102.5°	290.3	261.0	247.8	216.6	170.7	141.0	104.4	90.7	70.2	60.0	58.1
105°	162.0	147.3	141.5	123.4	102.9	85.4	65.4	60.5	48.3	42.9	42.4
107.5°	108.3	99.5	95.1	86.3	72.2	60.5	47.3	44.4	36.6	32.7	32.2



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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	87.8	81.5	77.6	70.2	59.5	49.8	39.5	37.1	30.7	27.8	27.3
112.5°	79.0	72.7	69.3	62.4	52.7	43.9	35.1	32.7	27.3	24.9	24.4
115°	73.2	67.8	63.9	57.6	48.3	40.0	32.2	29.8	25.4	22.4	22.0
117.5°	69.3	63.9	60.0	53.7	45.4	37.1	30.2	27.3	22.9	20.0	20.0
120°	65.9	61.0	57.1	50.7	42.4	34.6	27.8	24.4	20.5	17.6	17.6
122.5°	62.9	58.1	54.1	47.3	39.0	31.2	25.4	21.5	18.0	15.1	15.1
125°	59.5	55.1	50.7	43.9	35.6	28.3	22.4	18.5	15.1	12.7	12.7
127.5°	55.1	51.2	46.3	39.5	32.2	24.9	20.0	16.1	12.7	10.7	10.7
130°	50.2	45.9	41.0	34.6	27.8	21.5	16.6	13.7	10.7	9.3	8.8
132.5°	43.4	40.0	35.1	29.8	23.4	18.0	13.7	11.2	8.8	7.3	7.3
135°	36.6	33.2	29.3	23.9	19.0	14.1	10.7	8.8	7.3	5.9	5.9
137.5°	28.3	25.9	22.9	18.5	14.1	10.7	8.3	6.8	5.4	4.4	4.4
140°	21.5	20.0	17.6	13.7	10.7	8.3	6.3	5.4	4.4	3.4	2.9
142.5°	16.6	15.6	13.7	10.7	8.3	6.3	4.9	3.9	2.9	2.4	2.0
145°	12.7	11.7	10.2	7.8	5.9	4.4	3.4	2.4	2.0	1.5	1.0
147.5°	9.3	8.3	6.8	5.4	3.9	2.4	2.0	1.5	1.0	0.5	0.5
150°	4.9	4.4	3.9	2.9	2.0	1.0	0.5	0.5	0.0	0.0	0.0
152.5°	1.0	1.0	1.0	1.0	0.0	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	0.5	0.5	0.5	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	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	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)