

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: P314570

Luminaire Tested: **MPN-A2-D-U-ASYM**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314570
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-A2-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: 1845 lumens
Efficiency: N/A
Efficacy: 104.2 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): 17.7
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

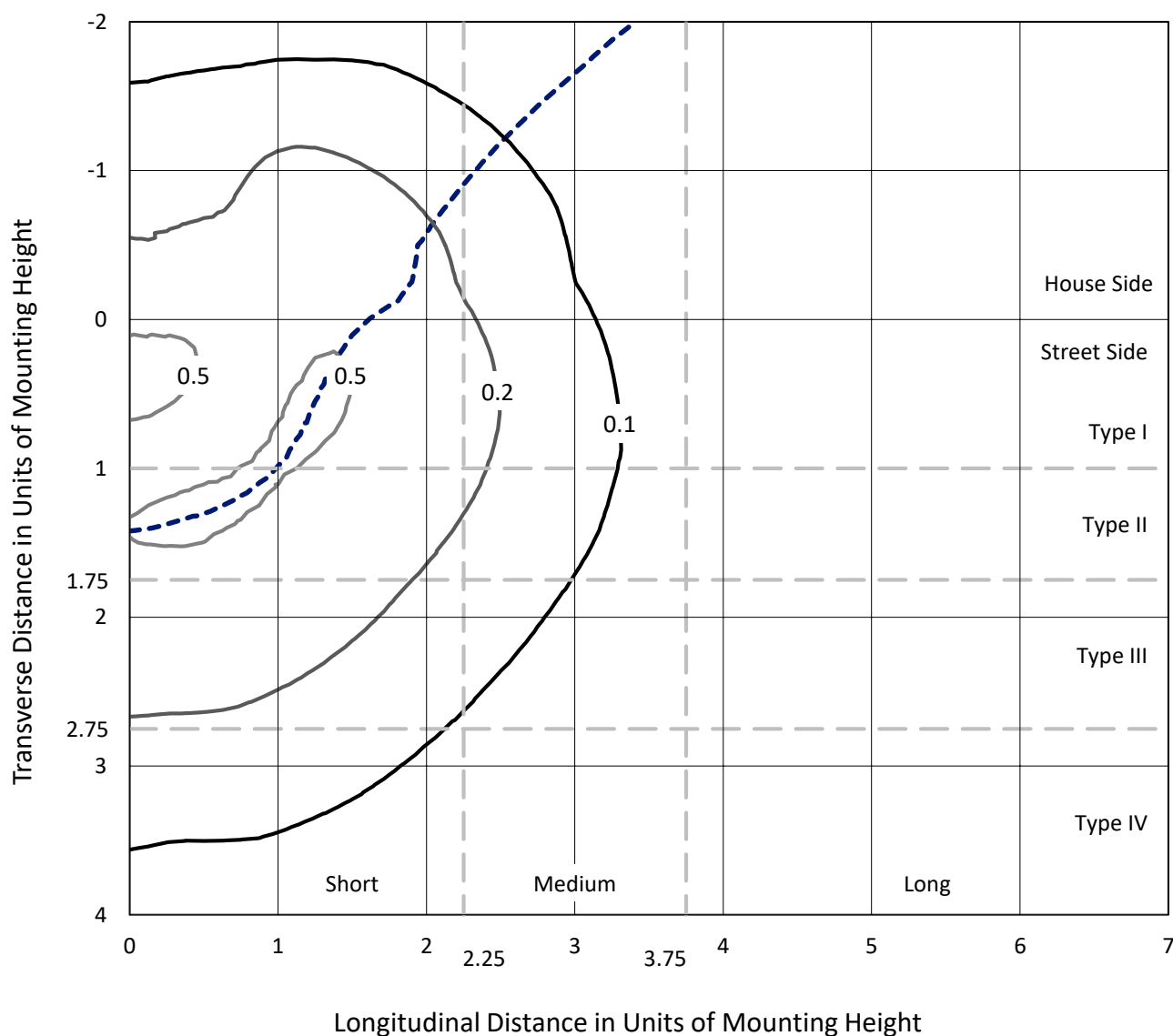


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

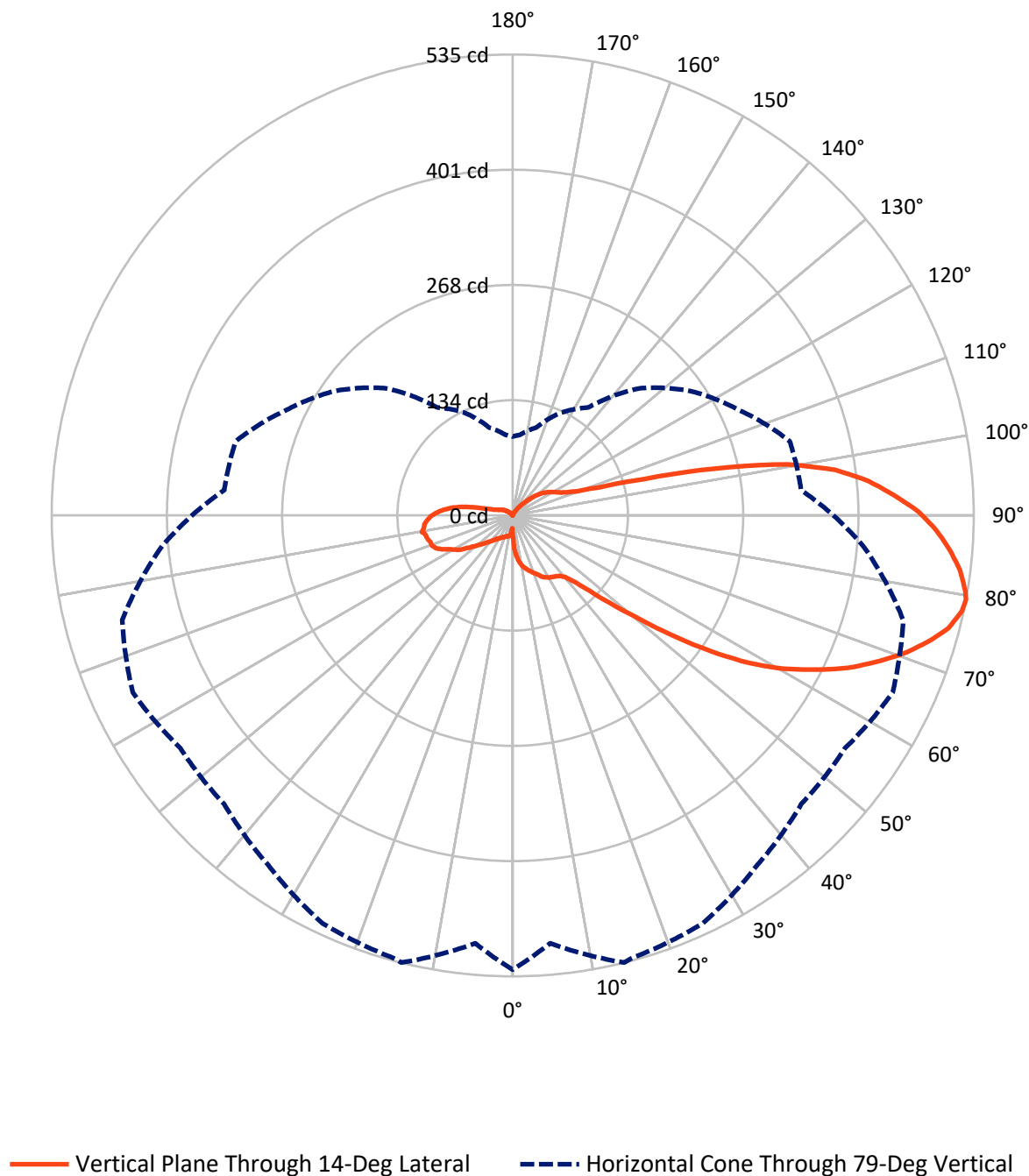


Based on 10 foot mounting height. Maximum calculated value = 0.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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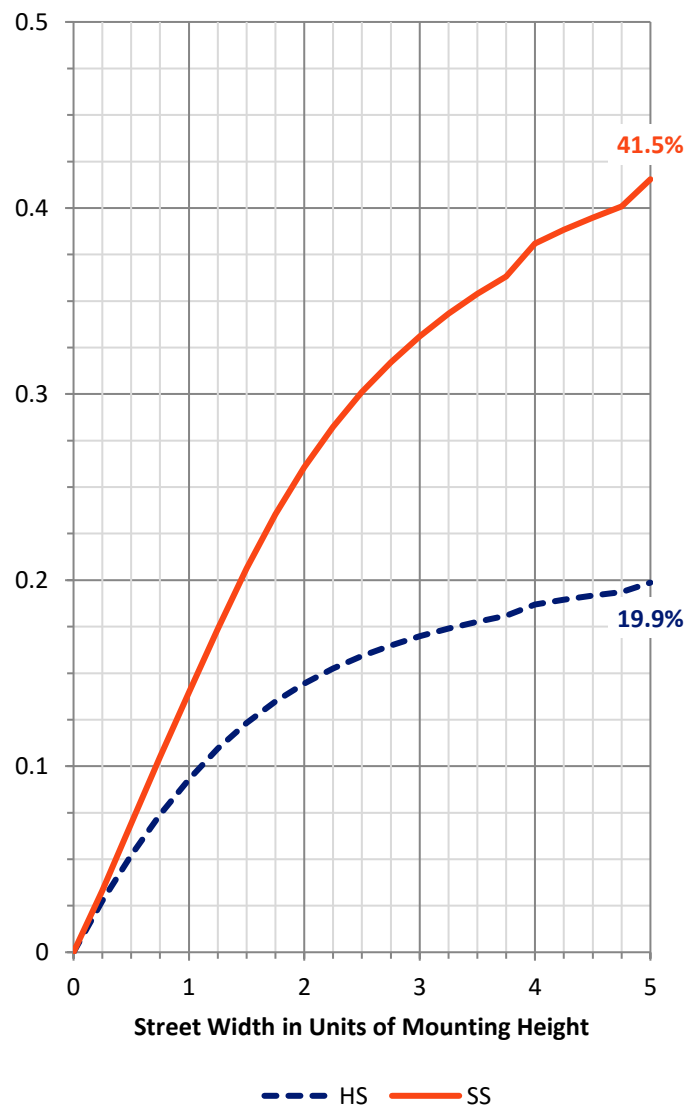
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	417.4	154.5	571.9
	% Fixture	22.6	8.4	31.0
Street Side	Lumens	919.2	353.9	1273.1
	% Fixture	49.8	19.2	69.0
Total	Lumens	1336.6	508.4	1845.0
	% Fixture	72.4	27.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.4	0.2
10°-20°	13.2	0.7
20°-30°	25.8	1.4
30°-40°	39.4	2.1
40°-50°	74.0	4.0
50°-60°	177.9	9.6
60°-70°	284.9	15.4
70°-80°	357.8	19.4
80°-90°	360.1	19.5
90°-100°	293.9	15.9
100°-110°	124.3	6.7
110°-120°	43.0	2.3
120°-130°	28.7	1.6
130°-140°	14.2	0.8
140°-150°	4.1	0.2
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1336.6	72.4
0°-180°	1845.0	100.0

Coefficient of Utilization



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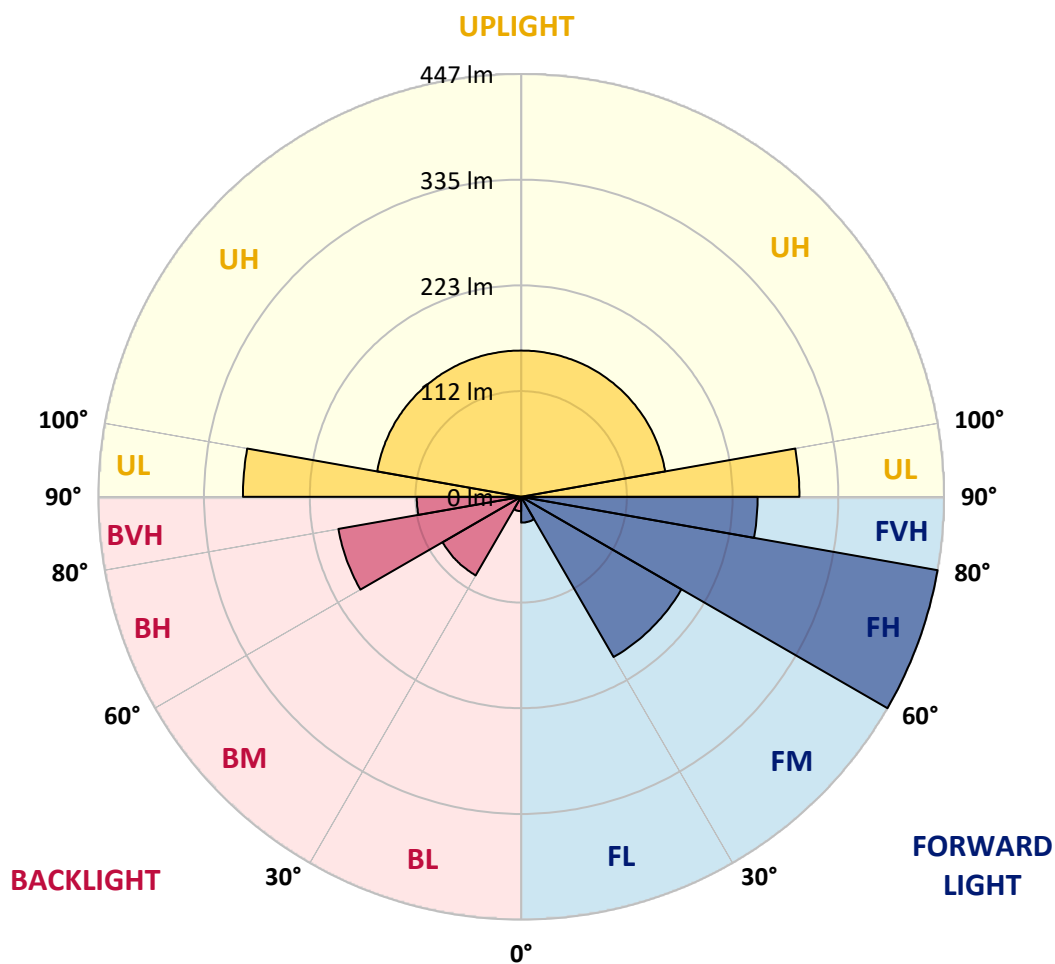
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	27.3	1.5			
FM	(30°-60°)	195.4	10.6			
FH	(60°-80°)	446.7	24.2			G0/660
FVH	(80°-90°)	249.8	13.5			G3/500
BL	(0°-30°)	15.2	0.8	B0/110		
BM	(30°-60°)	95.9	5.2	B0/220		
BH	(60°-80°)	196.0	10.6	B1/500		G1/500
BVH	(80°-90°)	110.2	6.0			G2/225
UL	(90°-100°)	293.9	15.9		U3/500	
UH	(100°-180°)	154.5	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°	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5
2.5°	40.2	39.0	39.0	39.0	38.1	36.5	35.0	34.1	31.9	30.0	27.2
5°	48.9	48.3	47.7	47.7	46.8	46.4	44.9	42.4	39.9	37.5	34.4
7.5°	55.4	54.8	54.2	54.5	53.3	52.0	50.5	48.3	45.8	43.3	40.2
10°	59.8	59.4	59.1	59.1	57.6	56.0	54.2	52.3	49.5	46.8	43.3
12.5°	62.9	62.5	62.5	62.5	61.0	58.8	57.3	55.1	52.6	49.5	46.1
15°	65.9	65.9	65.6	65.3	63.8	61.9	60.4	58.5	56.0	52.6	49.2
17.5°	69.0	68.7	68.4	68.4	66.9	65.0	63.5	61.9	58.8	55.4	52.0
20°	72.8	72.1	71.5	71.5	70.0	67.8	66.6	65.0	61.9	58.5	54.8
22.5°	76.5	75.9	74.6	74.6	73.4	70.9	70.3	68.4	65.3	61.6	57.9
25°	80.5	80.2	78.9	78.6	77.1	74.0	73.4	71.8	68.4	64.7	61.0
27.5°	83.6	83.3	81.4	81.4	80.2	77.4	75.9	74.0	70.6	66.6	63.5
30°	85.8	85.5	83.6	83.3	81.7	79.9	78.0	75.2	71.8	67.8	65.0
32.5°	86.7	86.7	85.1	84.8	83.0	81.4	79.6	76.8	72.4	68.7	65.6
35°	88.5	88.2	86.7	86.4	84.2	83.0	80.5	77.1	73.1	69.4	66.3
37.5°	90.4	90.4	89.2	88.9	86.4	85.1	82.7	79.6	75.2	71.5	68.1
40°	94.7	95.0	94.1	93.8	91.3	90.7	88.5	86.4	83.3	79.6	73.7
42.5°	104.6	105.0	105.3	104.6	102.8	101.9	100.0	99.7	96.9	92.3	86.7
45°	121.7	123.5	124.5	123.5	121.1	120.7	119.2	119.8	117.7	113.0	105.9
47.5°	147.7	148.9	152.3	152.3	148.9	148.0	146.8	147.1	147.1	141.8	131.0
50°	180.5	183.0	185.5	187.3	185.8	183.3	181.7	184.8	187.3	179.9	165.3
52.5°	220.4	222.9	230.3	229.7	227.9	226.6	227.6	233.4	239.0	232.5	209.3
55°	267.2	270.6	277.4	279.0	275.2	273.7	272.8	281.4	290.7	283.9	252.6
57.5°	313.9	317.3	323.2	325.7	320.8	315.8	306.8	316.4	327.9	319.2	281.4
60°	353.0	354.8	361.3	364.1	358.8	351.7	335.3	344.9	357.6	348.3	305.9
62.5°	388.2	388.9	394.1	396.6	390.4	383.0	363.5	371.8	382.4	373.4	327.3
65°	416.1	415.8	426.9	427.9	418.3	408.1	389.5	397.2	405.6	396.0	344.9
67.5°	444.3	440.9	454.2	455.1	445.5	432.2	413.3	417.4	422.6	415.5	364.4
70°	467.5	463.2	480.8	482.4	468.1	450.5	435.3	437.8	445.5	434.4	380.5
72.5°	491.7	481.1	503.1	504.0	491.0	467.8	452.6	452.0	461.0	448.6	392.6
75°	511.2	490.7	522.3	521.1	509.0	483.0	466.3	465.0	476.8	461.9	401.6
77.5°	529.1	499.7	533.1	531.9	520.8	492.3	473.7	472.5	485.2	469.4	409.6
79°	527.3	498.5	535.0	532.2	522.3	495.1	473.7	470.9	486.4	469.1	408.4
80°	527.6	494.8	532.5	530.0	519.2	492.3	468.7	464.4	478.3	461.3	402.5
82.5°	515.2	486.1	522.9	519.2	510.9	486.1	462.6	459.1	477.7	458.8	400.0
85°	502.2	472.8	508.7	506.2	498.5	474.0	449.9	441.5	457.9	439.3	386.1
87.5°	481.7	456.1	491.7	489.8	482.4	460.7	435.3	429.4	446.8	430.0	376.5
90°	464.1	438.7	471.2	469.4	462.6	441.5	418.3	417.4	435.0	418.3	364.4
92.5°	437.2	413.3	443.4	441.2	436.2	418.3	396.9	394.1	408.7	390.1	341.2
95°	410.2	387.3	414.9	413.9	407.4	392.0	371.5	366.3	380.8	367.2	321.4
97.5°	374.6	353.0	378.3	378.0	373.4	358.8	341.5	339.3	354.5	340.6	299.4
100°	319.5	300.6	324.8	322.0	322.6	310.8	296.6	300.9	316.1	306.2	269.0
102.5°	237.5	228.2	242.7	244.0	244.9	236.8	231.6	231.0	245.5	236.5	206.8
105°	154.8	150.5	157.9	159.1	157.3	151.4	137.2	138.4	139.9	132.5	115.2
107.5°	103.4	101.6	104.6	105.3	103.7	98.8	90.4	89.5	90.1	86.1	75.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	79.3	78.3	80.2	80.5	79.3	74.6	70.0	69.7	70.3	67.5	60.4
112.5°	67.8	67.2	68.1	68.1	67.2	63.8	61.0	61.0	61.9	59.8	53.9
115°	61.9	61.3	61.6	61.9	60.7	57.6	55.4	56.0	57.0	55.1	49.8
117.5°	57.6	57.3	57.3	57.3	56.3	53.6	52.3	52.6	53.6	51.7	47.1
120°	53.9	53.9	53.6	53.6	52.6	50.5	49.5	50.2	50.8	49.2	44.9
122.5°	50.2	50.2	49.8	49.8	49.2	47.4	46.8	47.7	48.3	46.4	42.7
125°	46.1	46.1	45.5	45.5	44.9	44.0	43.7	44.6	45.2	43.7	39.9
127.5°	41.8	41.8	40.9	41.2	40.2	39.9	39.9	41.2	41.8	40.6	37.2
130°	37.2	36.8	35.6	35.9	35.3	35.3	35.9	36.8	37.5	36.2	33.4
132.5°	31.6	31.6	30.0	30.3	30.0	30.3	31.0	31.9	32.2	31.6	29.1
135°	26.0	26.0	24.8	25.1	24.8	24.8	25.7	26.3	26.9	26.3	24.1
137.5°	20.7	20.7	19.5	19.8	19.5	19.2	19.8	20.1	20.4	19.8	18.9
140°	16.1	16.1	15.5	15.5	14.9	14.6	14.9	15.2	15.2	14.9	14.2
142.5°	12.7	13.0	12.4	12.4	11.5	11.5	11.5	11.8	11.8	11.8	11.1
145°	9.6	9.9	9.3	9.3	8.7	8.7	8.7	9.0	9.0	9.0	8.4
147.5°	6.8	6.8	6.5	6.5	5.9	6.2	6.2	6.5	6.5	6.2	5.9
150°	3.4	3.4	3.4	3.4	3.4	3.4	3.7	3.7	3.7	3.7	3.4
152.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.6
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	0.3	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.0	0.0
165°	0.0	0.0	0.0	0.3	0.0	0.3	0.3	0.3	0.3	0.0	0.0
167.5°	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0
170°	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0
172.5°	0.3	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0
175°	0.3	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
177.5°	0.3	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0
180°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5
2.5°	26.3	25.1	23.2	21.4	19.2	17.6	16.1	15.5	14.9	14.2	14.2
5°	32.5	31.0	28.5	25.7	24.1	22.0	20.7	19.5	18.9	18.9	18.9
7.5°	39.0	37.5	34.1	30.3	28.5	26.0	25.1	23.8	22.9	22.0	21.7
10°	41.8	40.2	37.2	34.1	31.6	29.1	26.9	25.7	24.1	23.2	23.2
12.5°	44.6	42.7	39.6	36.5	33.4	30.3	28.2	26.3	24.8	23.5	23.2
15°	47.4	45.5	42.1	38.7	35.0	31.6	29.1	26.9	25.1	23.8	23.5
17.5°	50.2	48.3	44.6	40.9	36.8	33.1	30.3	27.6	25.7	24.5	24.1
20°	52.9	50.8	47.1	43.0	38.7	35.0	31.3	28.5	26.6	25.4	25.1
22.5°	56.0	53.6	49.5	45.2	40.6	36.8	32.5	29.4	27.2	26.3	26.3
25°	59.1	56.0	52.0	47.1	42.7	38.7	33.7	30.3	28.2	27.6	27.9
27.5°	61.3	57.9	53.9	48.9	44.3	40.2	35.3	31.3	29.1	29.1	29.1
30°	62.5	59.8	55.4	50.5	46.1	41.8	36.5	32.5	30.3	30.3	30.3
32.5°	63.2	60.4	56.0	51.4	47.4	43.3	37.8	33.7	31.6	31.9	31.9
35°	63.8	61.3	57.0	52.3	48.6	44.3	39.3	35.3	33.4	33.7	33.4
37.5°	65.3	62.5	58.2	53.6	50.2	45.8	41.2	37.2	35.6	35.9	35.6
40°	70.3	66.9	62.2	56.7	53.3	48.3	43.7	39.3	38.4	38.4	38.1
42.5°	80.5	75.9	70.3	63.5	58.5	52.3	47.1	42.4	41.2	40.9	40.6
45°	97.8	90.4	84.5	74.6	66.9	58.8	52.0	46.1	44.6	44.0	43.7
47.5°	120.1	111.5	103.7	92.9	80.8	68.4	59.4	51.4	48.9	47.7	47.1
50°	152.6	138.1	127.9	114.6	99.1	81.7	68.7	58.2	53.9	51.1	50.5
52.5°	191.6	172.5	161.6	142.7	121.4	98.1	80.5	65.3	59.1	55.4	55.1
55°	231.9	207.7	195.1	173.7	144.9	117.7	94.1	74.3	65.6	60.7	60.1
57.5°	258.8	232.5	220.1	197.5	164.7	135.6	106.8	82.7	74.3	66.6	65.9
60°	279.3	251.1	239.6	212.4	178.3	149.5	115.8	90.7	78.9	71.5	70.3
62.5°	296.9	266.6	257.6	225.1	190.7	159.4	123.2	97.8	84.2	77.7	75.5
65°	314.6	283.6	272.8	239.3	200.6	169.4	130.3	106.2	92.3	83.0	83.0
67.5°	331.3	299.7	288.2	252.9	213.0	179.0	135.3	113.0	97.8	88.5	88.5
70°	346.5	311.5	302.5	265.3	225.1	186.7	135.0	119.5	100.9	92.6	88.9
72.5°	359.1	322.3	313.6	276.2	234.7	195.1	138.4	126.0	100.9	93.8	91.6
75°	366.0	330.0	324.5	282.7	245.2	201.9	144.0	126.6	103.4	93.5	92.0
77.5°	374.0	336.9	331.3	288.2	249.9	207.1	149.8	131.0	104.6	94.1	91.3
79°	372.1	335.9	332.8	289.5	251.7	208.7	152.9	131.3	105.6	93.8	91.6
80°	367.8	333.4	328.5	284.5	249.5	206.2	152.9	131.3	108.7	93.2	90.7
82.5°	364.1	330.4	326.0	283.0	245.8	201.9	153.3	131.0	105.3	91.3	89.2
85°	353.0	321.4	314.9	274.0	240.3	196.9	151.1	129.4	104.6	87.0	85.8
87.5°	342.1	311.5	306.8	266.3	232.5	190.7	148.3	125.7	100.6	83.9	83.0
90°	331.3	300.9	295.4	257.0	222.9	180.8	140.9	120.4	96.6	78.3	78.6
92.5°	310.5	283.3	277.4	241.8	209.0	170.0	132.2	112.4	90.1	74.3	72.8
95°	291.6	266.0	260.1	227.6	195.4	159.1	121.4	103.7	82.4	68.1	67.2
97.5°	272.8	247.4	241.2	211.2	179.6	145.8	109.3	93.2	72.8	60.7	58.8
100°	243.4	220.4	212.4	184.2	152.6	125.1	91.3	78.0	60.7	50.5	48.3
102.5°	184.2	165.6	157.3	137.5	108.4	89.5	66.3	57.6	44.6	38.1	36.8
105°	102.8	93.5	89.8	78.3	65.3	54.2	41.5	38.4	30.7	27.2	26.9
107.5°	68.7	63.2	60.4	54.8	45.8	38.4	30.0	28.2	23.2	20.7	20.4



REPORT NUMBER: P314570

CATALOG NUMBER: MPN-A2-D-U-ASYM

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	55.7	51.7	49.2	44.6	37.8	31.6	25.1	23.5	19.5	17.6	17.3
112.5°	50.2	46.1	44.0	39.6	33.4	27.9	22.3	20.7	17.3	15.8	15.5
115°	46.4	43.0	40.6	36.5	30.7	25.4	20.4	18.9	16.1	14.2	13.9
117.5°	44.0	40.6	38.1	34.1	28.8	23.5	19.2	17.3	14.6	12.7	12.7
120°	41.8	38.7	36.2	32.2	26.9	22.0	17.6	15.5	13.0	11.1	11.1
122.5°	39.9	36.8	34.4	30.0	24.8	19.8	16.1	13.6	11.5	9.6	9.6
125°	37.8	35.0	32.2	27.9	22.6	18.0	14.2	11.8	9.6	8.0	8.0
127.5°	35.0	32.5	29.4	25.1	20.4	15.8	12.7	10.2	8.0	6.8	6.8
130°	31.9	29.1	26.0	22.0	17.6	13.6	10.5	8.7	6.8	5.9	5.6
132.5°	27.6	25.4	22.3	18.9	14.9	11.5	8.7	7.1	5.6	4.6	4.6
135°	23.2	21.1	18.6	15.2	12.1	9.0	6.8	5.6	4.6	3.7	3.7
137.5°	18.0	16.4	14.6	11.8	9.0	6.8	5.3	4.3	3.4	2.8	2.8
140°	13.6	12.7	11.1	8.7	6.8	5.3	4.0	3.4	2.8	2.2	1.9
142.5°	10.5	9.9	8.7	6.8	5.3	4.0	3.1	2.5	1.9	1.5	1.2
145°	8.0	7.4	6.5	5.0	3.7	2.8	2.2	1.5	1.2	0.9	0.6
147.5°	5.9	5.3	4.3	3.4	2.5	1.5	1.2	0.9	0.6	0.3	0.3
150°	3.1	2.8	2.5	1.9	1.2	0.6	0.3	0.3	0.0	0.0	0.0
152.5°	0.6	0.6	0.6	0.6	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	0.3	0.3	0.3	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	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3

(END OF REPORT)