

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: P314564

Luminaire Tested: **MPN-A2-D-U-ASYM-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314564
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-7030
Description: NEW HAVEN 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: 1799 lumens
Efficiency: N/A
Efficacy: 101.6 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

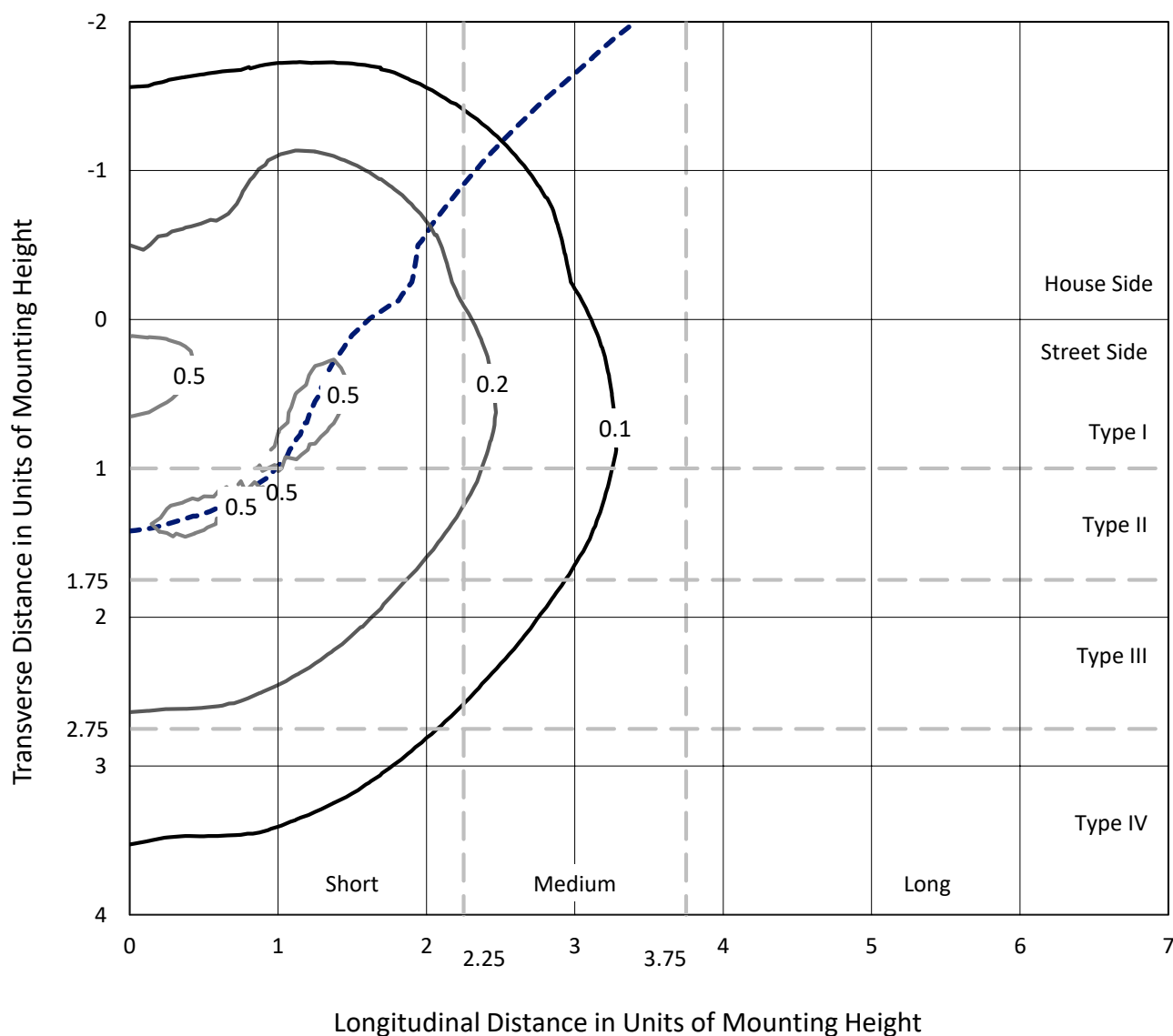


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

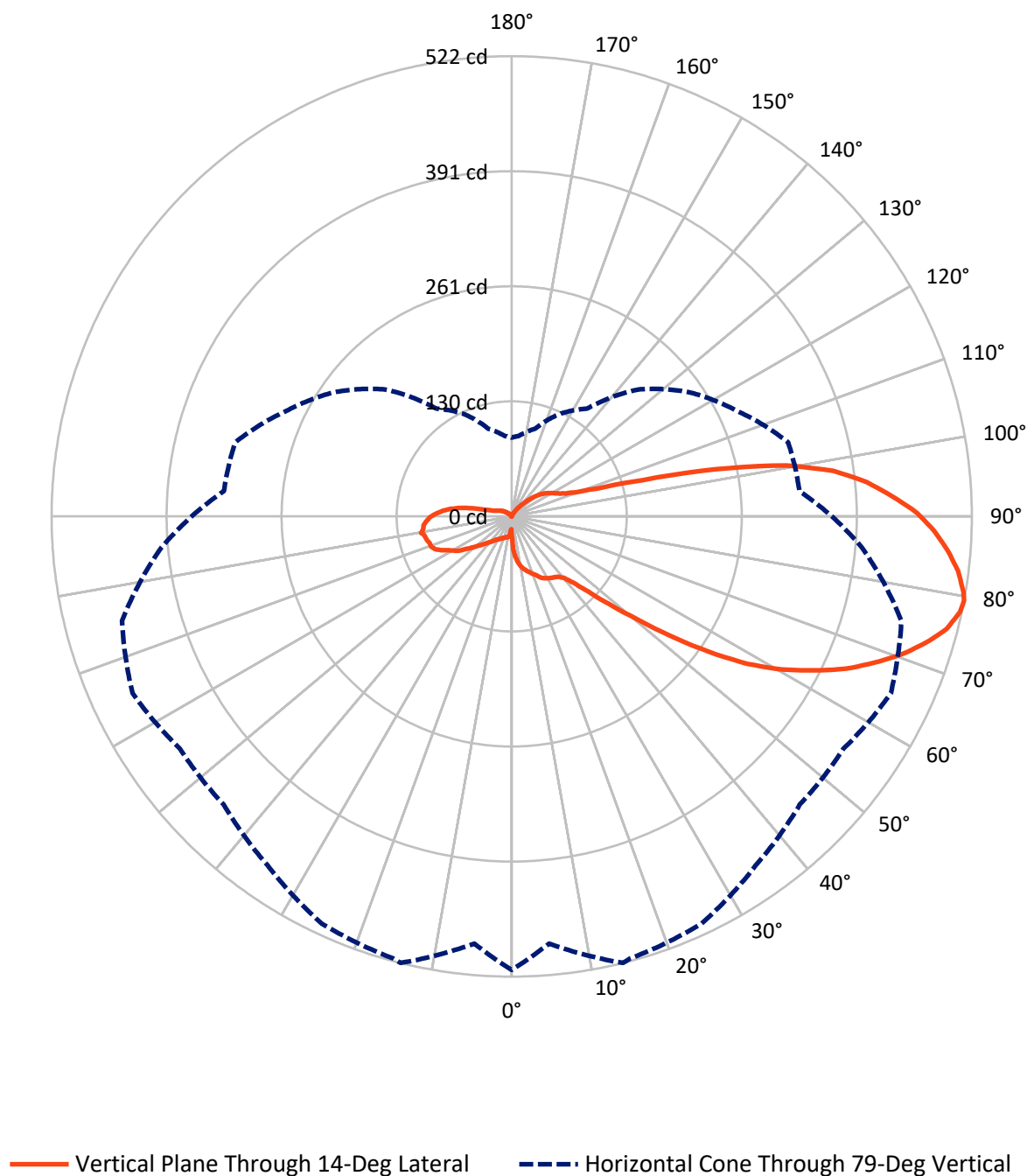


Based on 10 foot mounting height. Maximum calculated value = 0.6 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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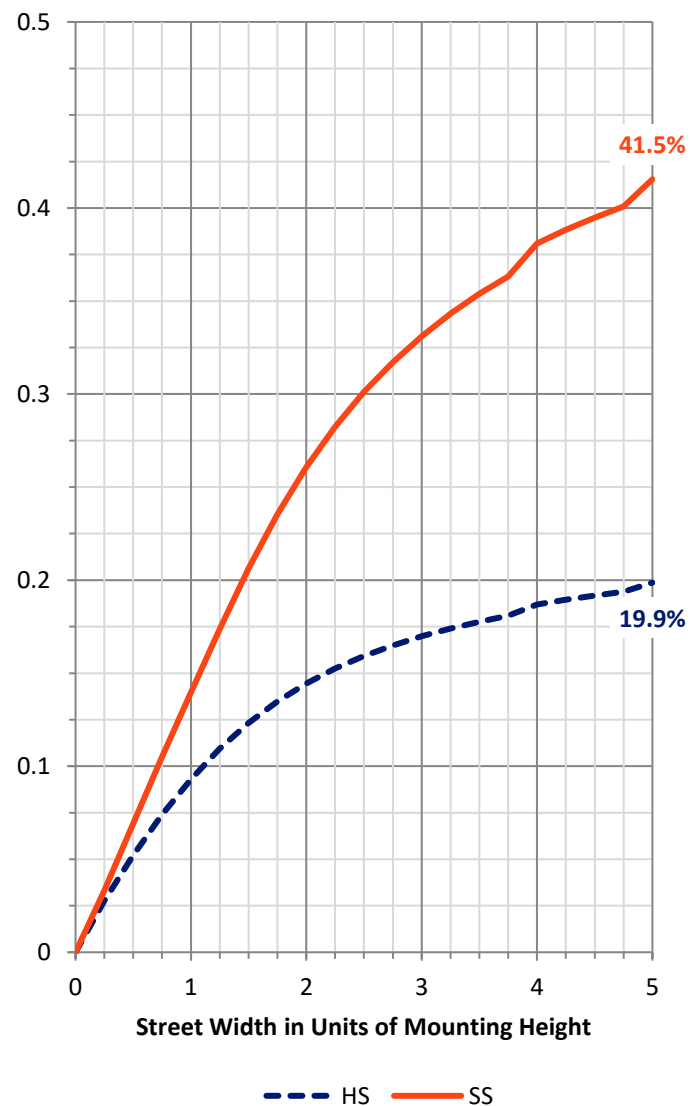
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	407.0	150.7	557.6
	% Fixture	22.6	8.4	31.0
Street Side	Lumens	896.3	345.1	1241.4
	% Fixture	49.8	19.2	69.0
Total	Lumens	1303.3	495.7	1799.0
	% Fixture	72.4	27.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.3	0.2
10°-20°	12.9	0.7
20°-30°	25.2	1.4
30°-40°	38.4	2.1
40°-50°	72.1	4.0
50°-60°	173.5	9.6
60°-70°	277.8	15.4
70°-80°	348.8	19.4
80°-90°	351.1	19.5
90°-100°	286.6	15.9
100°-110°	121.2	6.7
110°-120°	41.9	2.3
120°-130°	28.0	1.6
130°-140°	13.8	0.8
140°-150°	4.0	0.2
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1303.3	72.4
0°-180°	1799.0	100.0

Coefficient of Utilization



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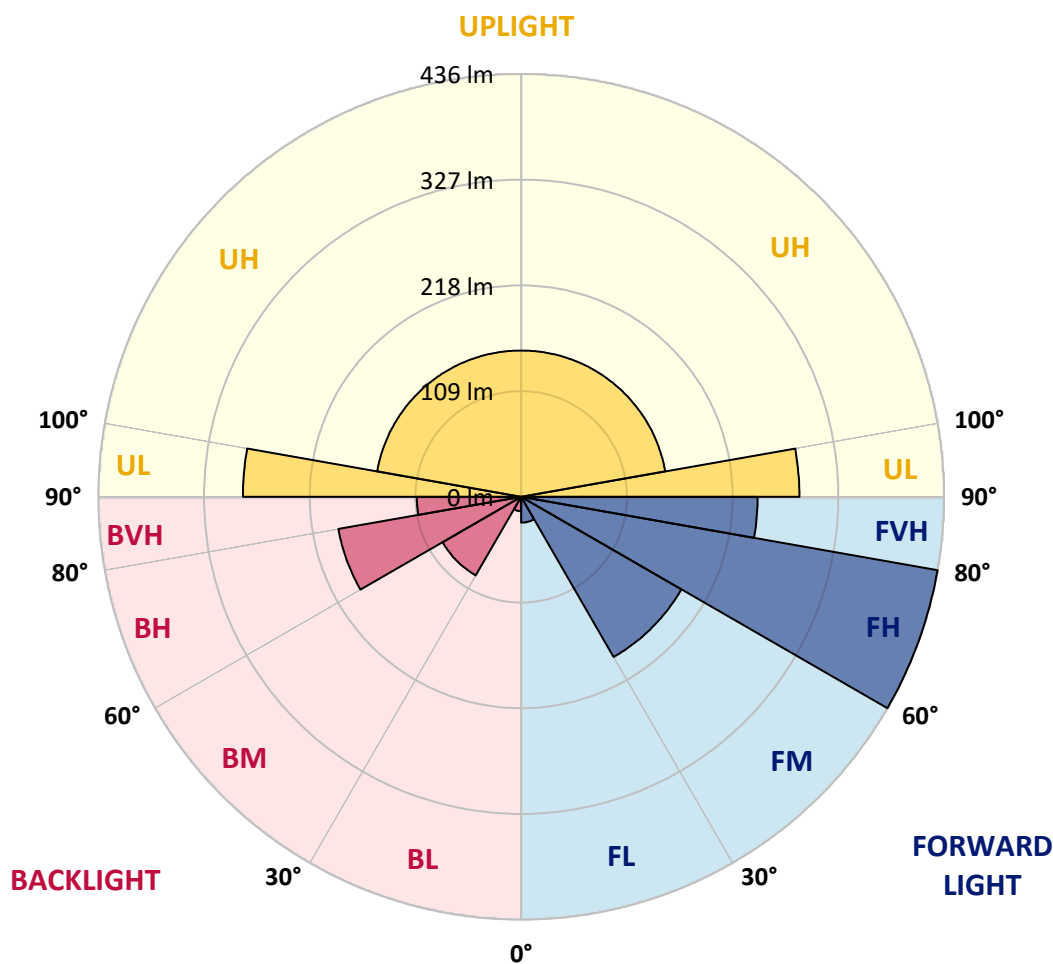
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	26.6	1.5			
FM	(30°-60°)	190.5	10.6			
FH	(60°-80°)	435.5	24.2			G0/660
FVH	(80°-90°)	243.6	13.5			G3/500
BL	(0°-30°)	14.8	0.8	B0/110		
BM	(30°-60°)	93.5	5.2	B0/220		
BH	(60°-80°)	191.1	10.6	B1/500		G1/500
BVH	(80°-90°)	107.5	6.0			G2/225
UL	(90°-100°)	286.6	15.9		U3/500	
UH	(100°-180°)	150.7	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°	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9
2.5°	39.2	38.0	38.0	38.0	37.1	35.6	34.1	33.2	31.1	29.3	26.6
5°	47.7	47.1	46.5	46.5	45.6	45.3	43.8	41.4	38.9	36.5	33.5
7.5°	54.0	53.4	52.8	53.1	51.9	50.7	49.2	47.1	44.7	42.3	39.2
10°	58.3	58.0	57.7	57.7	56.2	54.6	52.8	51.0	48.3	45.6	42.3
12.5°	61.3	61.0	61.0	61.0	59.5	57.4	55.8	53.7	51.3	48.3	45.0
15°	64.3	64.3	64.0	63.7	62.2	60.4	58.9	57.1	54.6	51.3	48.0
17.5°	67.3	67.0	66.7	66.7	65.2	63.4	61.9	60.4	57.4	54.0	50.7
20°	70.9	70.3	69.7	69.7	68.2	66.1	64.9	63.4	60.4	57.1	53.4
22.5°	74.6	74.0	72.8	72.8	71.5	69.1	68.5	66.7	63.7	60.1	56.5
25°	78.5	78.2	77.0	76.7	75.2	72.2	71.5	70.0	66.7	63.1	59.5
27.5°	81.5	81.2	79.4	79.4	78.2	75.5	74.0	72.2	68.8	64.9	61.9
30°	83.6	83.3	81.5	81.2	79.7	77.9	76.1	73.4	70.0	66.1	63.4
32.5°	84.5	84.5	83.0	82.7	80.9	79.4	77.6	74.9	70.6	67.0	64.0
35°	86.3	86.0	84.5	84.2	82.1	80.9	78.5	75.2	71.2	67.6	64.6
37.5°	88.2	88.2	86.9	86.6	84.2	83.0	80.6	77.6	73.4	69.7	66.4
40°	92.4	92.7	91.8	91.5	89.1	88.5	86.3	84.2	81.2	77.6	71.8
42.5°	102.0	102.3	102.6	102.0	100.2	99.3	97.5	97.2	94.5	90.0	84.5
45°	118.6	120.5	121.4	120.5	118.0	117.7	116.2	116.8	114.7	110.2	103.2
47.5°	144.0	145.2	148.5	148.5	145.2	144.3	143.1	143.4	143.4	138.3	127.7
50°	176.0	178.4	180.8	182.6	181.1	178.7	177.2	180.2	182.6	175.4	161.2
52.5°	214.9	217.4	224.6	224.0	222.2	221.0	221.9	227.6	233.1	226.7	204.1
55°	260.5	263.9	270.5	272.0	268.4	266.9	266.0	274.4	283.5	276.8	246.3
57.5°	306.1	309.4	315.2	317.6	312.8	307.9	299.2	308.5	319.7	311.2	274.4
60°	344.2	346.0	352.3	355.0	349.9	342.9	326.9	336.3	348.7	339.6	298.3
62.5°	378.6	379.2	384.3	386.7	380.7	373.4	354.4	362.6	372.8	364.1	319.1
65°	405.7	405.4	416.3	417.2	407.9	397.9	379.8	387.3	395.5	386.1	336.3
67.5°	433.2	429.9	442.9	443.8	434.4	421.4	403.0	406.9	412.1	405.1	355.3
70°	455.9	451.6	468.8	470.3	456.5	439.2	424.5	426.9	434.4	423.5	371.0
72.5°	479.4	469.1	490.6	491.5	478.8	456.2	441.4	440.8	449.5	437.4	382.8
75°	498.4	478.5	509.3	508.1	496.3	470.9	454.6	453.4	464.9	450.4	391.5
77.5°	515.9	487.2	519.9	518.6	507.8	480.0	461.9	460.7	473.1	457.7	399.4
79°	514.1	486.0	521.7	518.9	509.3	482.7	461.9	459.2	474.3	457.4	398.2
80°	514.4	482.4	519.2	516.8	506.3	480.0	457.1	452.8	466.4	449.8	392.5
82.5°	502.3	474.0	509.9	506.3	498.1	474.0	451.0	447.7	465.8	447.4	390.0
85°	489.7	461.0	496.0	493.6	486.0	462.2	438.6	430.5	446.5	428.4	376.5
87.5°	469.7	444.7	479.4	477.6	470.3	449.2	424.5	418.7	435.6	419.3	367.1
90°	452.5	427.8	459.5	457.7	451.0	430.5	407.9	406.9	424.2	407.9	355.3
92.5°	426.3	403.0	432.3	430.2	425.4	407.9	387.0	384.3	398.5	380.4	332.7
95°	400.0	377.7	404.5	403.6	397.3	382.2	362.3	357.1	371.3	358.0	313.4
97.5°	365.3	344.2	368.9	368.6	364.1	349.9	333.0	330.9	345.7	332.1	291.9
100°	311.5	293.1	316.7	314.0	314.6	303.1	289.2	293.4	308.2	298.6	262.3
102.5°	231.5	222.5	236.7	237.9	238.8	230.9	225.8	225.2	239.4	230.6	201.7
105°	150.9	146.7	154.0	155.2	153.4	147.6	133.7	134.9	136.5	129.2	112.3
107.5°	100.8	99.0	102.0	102.6	101.1	96.3	88.2	87.2	87.8	83.9	73.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	77.3	76.4	78.2	78.5	77.3	72.8	68.2	67.9	68.5	65.8	58.9
112.5°	66.1	65.5	66.4	66.4	65.5	62.2	59.5	59.5	60.4	58.3	52.5
115°	60.4	59.8	60.1	60.4	59.2	56.2	54.0	54.6	55.5	53.7	48.6
117.5°	56.2	55.8	55.8	55.8	54.9	52.2	51.0	51.3	52.2	50.4	45.9
120°	52.5	52.5	52.2	52.2	51.3	49.2	48.3	48.9	49.5	48.0	43.8
122.5°	48.9	48.9	48.6	48.6	48.0	46.2	45.6	46.5	47.1	45.3	41.7
125°	45.0	45.0	44.4	44.4	43.8	42.9	42.6	43.5	44.1	42.6	38.9
127.5°	40.8	40.8	39.8	40.2	39.2	38.9	38.9	40.2	40.8	39.5	36.2
130°	36.2	35.9	34.7	35.0	34.4	34.4	35.0	35.9	36.5	35.3	32.6
132.5°	30.8	30.8	29.3	29.6	29.3	29.6	30.2	31.1	31.4	30.8	28.4
135°	25.4	25.4	24.2	24.5	24.2	24.2	25.1	25.7	26.3	25.7	23.5
137.5°	20.2	20.2	19.0	19.3	19.0	18.7	19.3	19.6	19.9	19.3	18.4
140°	15.7	15.7	15.1	15.1	14.5	14.2	14.5	14.8	14.8	14.5	13.9
142.5°	12.4	12.7	12.1	12.1	11.2	11.2	11.2	11.5	11.5	11.5	10.9
145°	9.4	9.7	9.1	9.1	8.5	8.5	8.5	8.8	8.8	8.8	8.2
147.5°	6.6	6.6	6.3	6.3	5.7	6.0	6.0	6.3	6.3	6.0	5.7
150°	3.3	3.3	3.3	3.3	3.3	3.3	3.6	3.6	3.6	3.6	3.3
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°	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9
2.5°	25.7	24.5	22.6	20.8	18.7	17.2	15.7	15.1	14.5	13.9	13.9
5°	31.7	30.2	27.8	25.1	23.5	21.4	20.2	19.0	18.4	18.4	18.4
7.5°	38.0	36.5	33.2	29.6	27.8	25.4	24.5	23.2	22.3	21.4	21.1
10°	40.8	39.2	36.2	33.2	30.8	28.4	26.3	25.1	23.5	22.6	22.6
12.5°	43.5	41.7	38.6	35.6	32.6	29.6	27.5	25.7	24.2	22.9	22.6
15°	46.2	44.4	41.1	37.7	34.1	30.8	28.4	26.3	24.5	23.2	22.9
17.5°	48.9	47.1	43.5	39.8	35.9	32.3	29.6	26.9	25.1	23.8	23.5
20°	51.6	49.5	45.9	42.0	37.7	34.1	30.5	27.8	26.0	24.8	24.5
22.5°	54.6	52.2	48.3	44.1	39.5	35.9	31.7	28.7	26.6	25.7	25.7
25°	57.7	54.6	50.7	45.9	41.7	37.7	32.9	29.6	27.5	26.9	27.2
27.5°	59.8	56.5	52.5	47.7	43.2	39.2	34.4	30.5	28.4	28.4	28.4
30°	61.0	58.3	54.0	49.2	45.0	40.8	35.6	31.7	29.6	29.6	29.6
32.5°	61.6	58.9	54.6	50.1	46.2	42.3	36.8	32.9	30.8	31.1	31.1
35°	62.2	59.8	55.5	51.0	47.4	43.2	38.3	34.4	32.6	32.9	32.6
37.5°	63.7	61.0	56.8	52.2	48.9	44.7	40.2	36.2	34.7	35.0	34.7
40°	68.5	65.2	60.7	55.2	51.9	47.1	42.6	38.3	37.4	37.4	37.1
42.5°	78.5	74.0	68.5	61.9	57.1	51.0	45.9	41.4	40.2	39.8	39.5
45°	95.4	88.2	82.4	72.8	65.2	57.4	50.7	45.0	43.5	42.9	42.6
47.5°	117.1	108.7	101.1	90.6	78.8	66.7	58.0	50.1	47.7	46.5	45.9
50°	148.8	134.6	124.7	111.7	96.6	79.7	67.0	56.8	52.5	49.8	49.2
52.5°	186.9	168.2	157.6	139.2	118.3	95.7	78.5	63.7	57.7	54.0	53.7
55°	226.1	202.6	190.2	169.4	141.3	114.7	91.8	72.5	64.0	59.2	58.6
57.5°	252.4	226.7	214.6	192.6	160.6	132.2	104.2	80.6	72.5	64.9	64.3
60°	272.3	244.8	233.7	207.1	173.9	145.8	112.9	88.5	77.0	69.7	68.5
62.5°	289.5	259.9	251.2	219.5	186.0	155.5	120.2	95.4	82.1	75.8	73.7
65°	306.7	276.5	266.0	233.4	195.6	165.1	127.1	103.5	90.0	80.9	80.9
67.5°	323.0	292.2	281.1	246.6	207.7	174.5	131.9	110.2	95.4	86.3	86.3
70°	337.8	303.7	294.9	258.7	219.5	182.0	131.6	116.5	98.4	90.3	86.6
72.5°	350.2	314.3	305.8	269.3	228.8	190.2	134.9	122.9	98.4	91.5	89.4
75°	356.8	321.8	316.4	275.6	239.1	196.8	140.4	123.5	100.8	91.2	89.7
77.5°	364.7	328.5	323.0	281.1	243.6	202.0	146.1	127.7	102.0	91.8	89.1
79°	362.9	327.5	324.5	282.3	245.4	203.5	149.1	128.0	102.9	91.5	89.4
80°	358.6	325.1	320.3	277.4	243.3	201.1	149.1	128.0	106.0	90.9	88.5
82.5°	355.0	322.1	317.9	275.9	239.7	196.8	149.4	127.7	102.6	89.1	86.9
85°	344.2	313.4	307.0	267.2	234.3	192.0	147.3	126.2	102.0	84.8	83.6
87.5°	333.6	303.7	299.2	259.6	226.7	186.0	144.6	122.6	98.1	81.8	80.9
90°	323.0	293.4	288.0	250.6	217.4	176.3	137.4	117.4	94.2	76.4	76.7
92.5°	302.8	276.2	270.5	235.8	203.8	165.7	128.9	109.6	87.8	72.5	70.9
95°	284.4	259.3	253.6	221.9	190.5	155.2	118.3	101.1	80.3	66.4	65.5
97.5°	266.0	241.2	235.2	205.9	175.1	142.2	106.6	90.9	70.9	59.2	57.4
100°	237.3	214.9	207.1	179.6	148.8	122.0	89.1	76.1	59.2	49.2	47.1
102.5°	179.6	161.5	153.4	134.0	105.7	87.2	64.6	56.2	43.5	37.1	35.9
105°	100.2	91.2	87.5	76.4	63.7	52.8	40.5	37.4	29.9	26.6	26.3
107.5°	67.0	61.6	58.9	53.4	44.7	37.4	29.3	27.5	22.6	20.2	19.9



REPORT NUMBER: P314564

CATALOG NUMBER: MPN-A2-D-U-ASYM-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	54.3	50.4	48.0	43.5	36.8	30.8	24.5	22.9	19.0	17.2	16.9
112.5°	48.9	45.0	42.9	38.6	32.6	27.2	21.7	20.2	16.9	15.4	15.1
115°	45.3	42.0	39.5	35.6	29.9	24.8	19.9	18.4	15.7	13.9	13.6
117.5°	42.9	39.5	37.1	33.2	28.1	22.9	18.7	16.9	14.2	12.4	12.4
120°	40.8	37.7	35.3	31.4	26.3	21.4	17.2	15.1	12.7	10.9	10.9
122.5°	38.9	35.9	33.5	29.3	24.2	19.3	15.7	13.3	11.2	9.4	9.4
125°	36.8	34.1	31.4	27.2	22.0	17.5	13.9	11.5	9.4	7.8	7.8
127.5°	34.1	31.7	28.7	24.5	19.9	15.4	12.4	10.0	7.8	6.6	6.6
130°	31.1	28.4	25.4	21.4	17.2	13.3	10.3	8.5	6.6	5.7	5.4
132.5°	26.9	24.8	21.7	18.4	14.5	11.2	8.5	6.9	5.4	4.5	4.5
135°	22.6	20.5	18.1	14.8	11.8	8.8	6.6	5.4	4.5	3.6	3.6
137.5°	17.5	16.0	14.2	11.5	8.8	6.6	5.1	4.2	3.3	2.7	2.7
140°	13.3	12.4	10.9	8.5	6.6	5.1	3.9	3.3	2.7	2.1	1.8
142.5°	10.3	9.7	8.5	6.6	5.1	3.9	3.0	2.4	1.8	1.5	1.2
145°	7.8	7.2	6.3	4.8	3.6	2.7	2.1	1.5	1.2	0.9	0.6
147.5°	5.7	5.1	4.2	3.3	2.4	1.5	1.2	0.9	0.6	0.3	0.3
150°	3.0	2.7	2.4	1.8	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)