

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: P314558

Luminaire Tested: **MPN-A2-D-U-ASYM-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314558
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-7027
Description: NEW HAVEN POST TOP LUMINAIRE
(1) 70 CRI, 2700K LIGHT ENGINE. ASYMMETRIC DISTRIBUTION.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1713 lumens
Efficiency: N/A
Efficacy: 96.8 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): 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

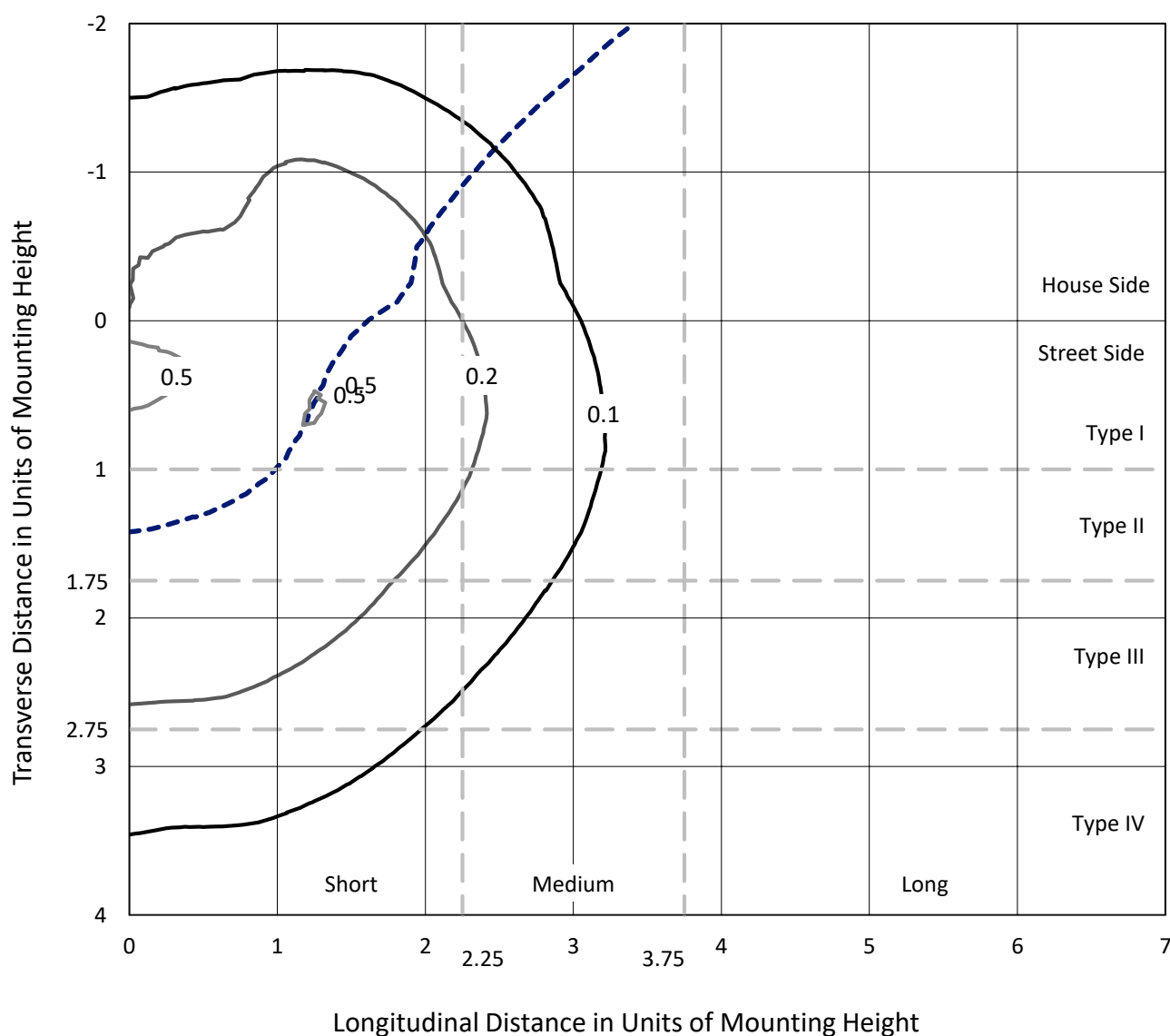


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

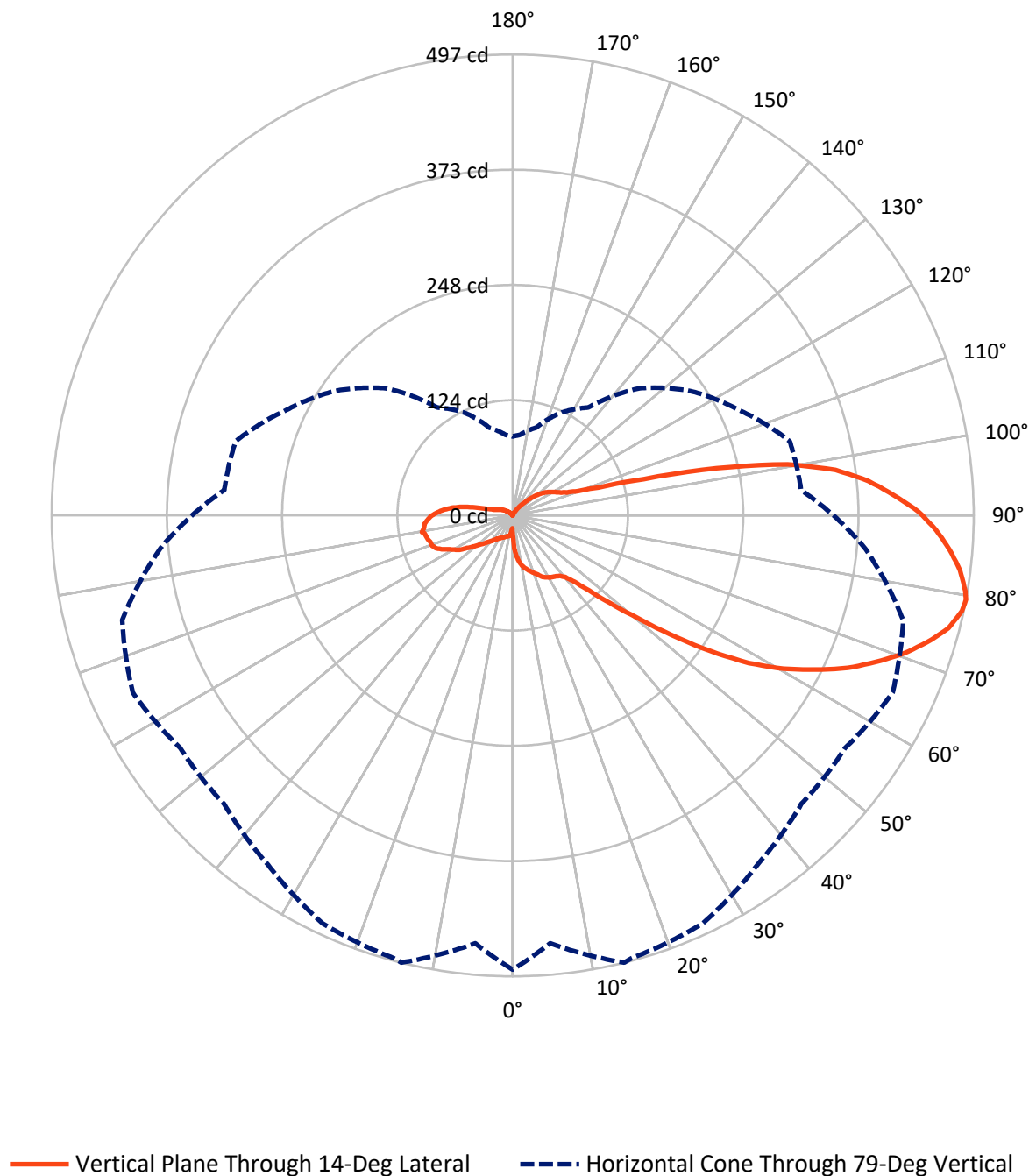


Based on 10 foot mounting height. Maximum calculated value = 0.6 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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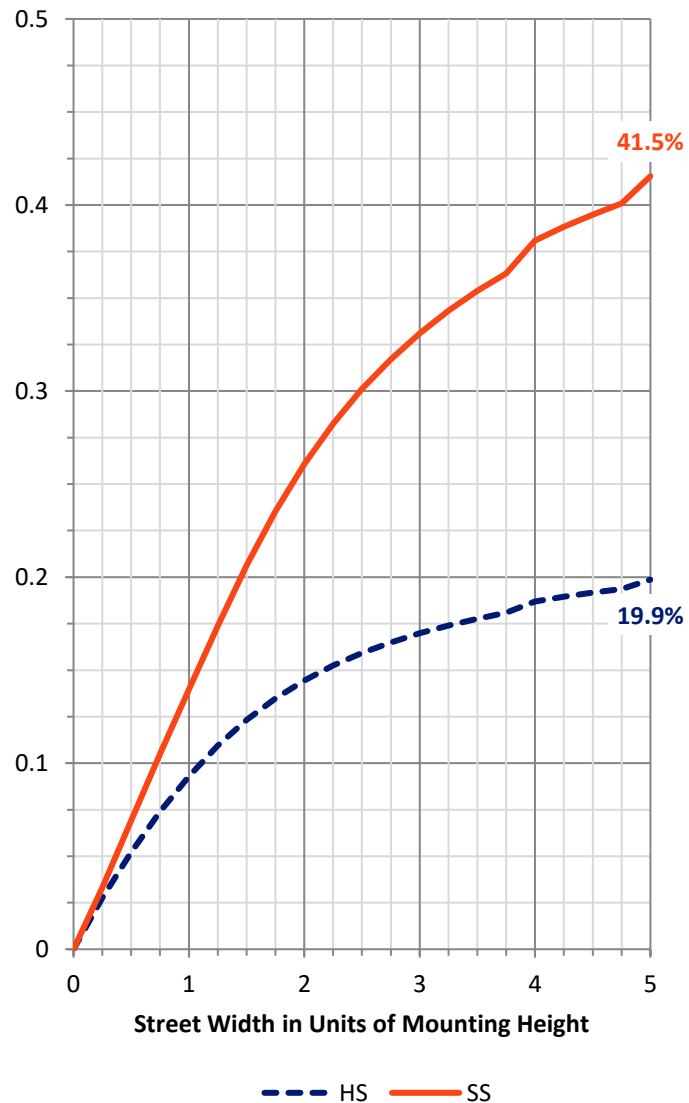
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	387.5	143.4	531.0
	% Fixture	22.6	8.4	31.0
Street Side	Lumens	853.5	328.6	1182.0
	% Fixture	49.8	19.2	69.0
Total	Lumens	1241.0	472.0	1713.0
	% Fixture	72.4	27.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.2	0.2
10°-20°	12.3	0.7
20°-30°	24.0	1.4
30°-40°	36.6	2.1
40°-50°	68.7	4.0
50°-60°	165.2	9.6
60°-70°	264.6	15.4
70°-80°	332.2	19.4
80°-90°	334.3	19.5
90°-100°	272.9	15.9
100°-110°	115.4	6.7
110°-120°	39.9	2.3
120°-130°	26.6	1.6
130°-140°	13.2	0.8
140°-150°	3.8	0.2
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1241.0	72.4
0°-180°	1713.0	100.0

Coefficient of Utilization



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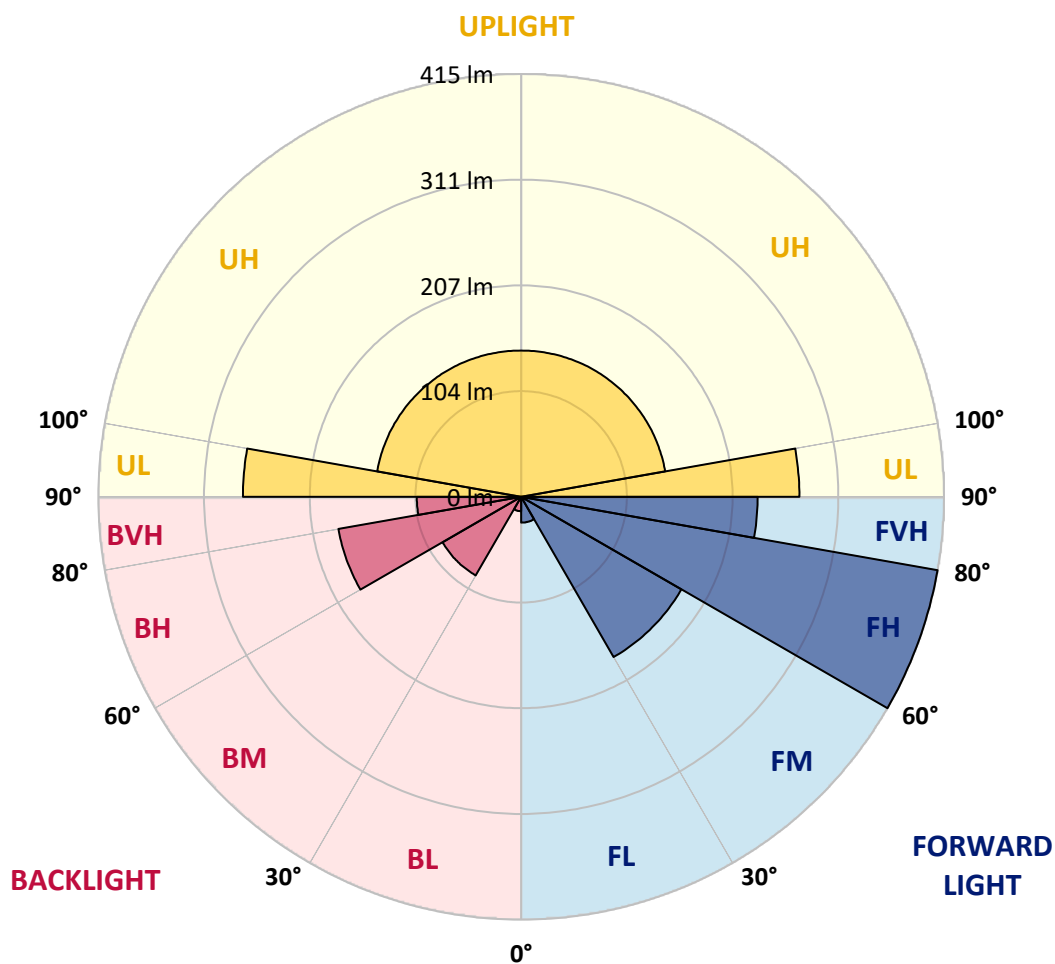
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	25.4	1.5			
FM	(30°-60°)	181.4	10.6			
FH	(60°-80°)	414.7	24.2			G0/660
FVH	(80°-90°)	231.9	13.5			G3/500
BL	(0°-30°)	14.1	0.8	B0/110		
BM	(30°-60°)	89.1	5.2	B0/220		
BH	(60°-80°)	182.0	10.6	B1/500		G1/500
BVH	(80°-90°)	102.3	6.0			G2/225
UL	(90°-100°)	272.9	15.9		U3/500	
UH	(100°-180°)	143.4	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°	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8
2.5°	37.4	36.2	36.2	36.2	35.4	33.9	32.5	31.6	29.6	27.9	25.3
5°	45.4	44.8	44.3	44.3	43.4	43.1	41.7	39.4	37.1	34.8	31.9
7.5°	51.5	50.9	50.3	50.6	49.4	48.3	46.9	44.8	42.5	40.2	37.4
10°	55.5	55.2	54.9	54.9	53.5	52.0	50.3	48.6	46.0	43.4	40.2
12.5°	58.4	58.1	58.1	58.1	56.6	54.6	53.2	51.2	48.9	46.0	42.8
15°	61.2	61.2	60.9	60.7	59.2	57.5	56.1	54.3	52.0	48.9	45.7
17.5°	64.1	63.8	63.5	63.5	62.1	60.4	58.9	57.5	54.6	51.5	48.3
20°	67.6	67.0	66.4	66.4	65.0	63.0	61.8	60.4	57.5	54.3	50.9
22.5°	71.0	70.4	69.3	69.3	68.1	65.8	65.3	63.5	60.7	57.2	53.8
25°	74.7	74.5	73.3	73.0	71.6	68.7	68.1	66.7	63.5	60.1	56.6
27.5°	77.6	77.3	75.6	75.6	74.5	71.9	70.4	68.7	65.5	61.8	58.9
30°	79.6	79.3	77.6	77.3	75.9	74.2	72.4	69.9	66.7	63.0	60.4
32.5°	80.5	80.5	79.1	78.8	77.0	75.6	73.9	71.3	67.3	63.8	60.9
35°	82.2	81.9	80.5	80.2	78.2	77.0	74.7	71.6	67.8	64.4	61.5
37.5°	83.9	83.9	82.8	82.5	80.2	79.1	76.8	73.9	69.9	66.4	63.2
40°	88.0	88.2	87.4	87.1	84.8	84.2	82.2	80.2	77.3	73.9	68.4
42.5°	97.2	97.4	97.7	97.2	95.4	94.6	92.8	92.6	90.0	85.7	80.5
45°	113.0	114.7	115.6	114.7	112.4	112.1	110.7	111.2	109.2	104.9	98.3
47.5°	137.1	138.3	141.4	141.4	138.3	137.4	136.3	136.5	136.5	131.7	121.6
50°	167.6	169.9	172.2	173.9	172.5	170.2	168.7	171.6	173.9	167.0	153.5
52.5°	204.7	207.0	213.9	213.3	211.6	210.4	211.3	216.7	221.9	215.9	194.3
55°	248.1	251.2	257.6	259.0	255.5	254.1	253.2	261.3	269.9	263.6	234.6
57.5°	291.5	294.6	300.1	302.4	297.8	293.2	284.9	293.8	304.4	296.4	261.3
60°	327.7	329.4	335.5	338.0	333.2	326.6	311.3	320.2	332.0	323.4	284.0
62.5°	360.5	361.0	365.9	368.2	362.5	355.6	337.5	345.2	355.0	346.7	303.8
65°	386.3	386.1	396.4	397.3	388.4	378.9	361.6	368.8	376.6	367.7	320.2
67.5°	412.5	409.3	421.7	422.6	413.6	401.3	383.8	387.5	392.4	385.8	338.3
70°	434.1	430.0	446.4	447.9	434.6	418.2	404.2	406.5	413.6	403.3	353.3
72.5°	456.5	446.7	467.1	468.0	455.9	434.3	420.3	419.7	428.0	416.5	364.5
75°	474.6	455.6	484.9	483.8	472.6	448.4	432.9	431.8	442.7	428.9	372.8
77.5°	491.3	464.0	495.0	493.9	483.5	457.1	439.8	438.7	450.4	435.8	380.3
79°	489.5	462.8	496.7	494.1	484.9	459.6	439.8	437.2	451.6	435.5	379.2
80°	489.8	459.4	494.4	492.1	482.1	457.1	435.2	431.2	444.1	428.3	373.7
82.5°	478.3	451.3	485.5	482.1	474.3	451.3	429.5	426.3	443.5	426.0	371.4
85°	466.3	438.9	472.3	470.0	462.8	440.1	417.7	409.9	425.1	407.9	358.5
87.5°	447.3	423.4	456.5	454.8	447.9	427.7	404.2	398.7	414.8	399.3	349.5
90°	430.9	407.3	437.5	435.8	429.5	409.9	388.4	387.5	403.9	388.4	338.3
92.5°	405.9	383.8	411.6	409.6	405.0	388.4	368.5	365.9	379.4	362.2	316.8
95°	380.9	359.6	385.2	384.3	378.3	363.9	344.9	340.1	353.6	340.9	298.4
97.5°	347.8	327.7	351.3	351.0	346.7	333.2	317.1	315.1	329.1	316.2	278.0
100°	296.7	279.1	301.5	299.0	299.5	288.6	275.4	279.4	293.5	284.3	249.8
102.5°	220.5	211.9	225.4	226.5	227.4	219.9	215.0	214.4	228.0	219.6	192.0
105°	143.7	139.7	146.6	147.8	146.0	140.6	127.3	128.5	129.9	123.0	106.9
107.5°	96.0	94.3	97.2	97.7	96.3	91.7	83.9	83.1	83.6	79.9	70.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	73.6	72.7	74.5	74.7	73.6	69.3	65.0	64.7	65.3	62.7	56.1
112.5°	63.0	62.4	63.2	63.2	62.4	59.2	56.6	56.6	57.5	55.5	50.0
115°	57.5	56.9	57.2	57.5	56.3	53.5	51.5	52.0	52.9	51.2	46.3
117.5°	53.5	53.2	53.2	53.2	52.3	49.7	48.6	48.9	49.7	48.0	43.7
120°	50.0	50.0	49.7	49.7	48.9	46.9	46.0	46.6	47.1	45.7	41.7
122.5°	46.6	46.6	46.3	46.3	45.7	44.0	43.4	44.3	44.8	43.1	39.7
125°	42.8	42.8	42.3	42.3	41.7	40.8	40.5	41.4	42.0	40.5	37.1
127.5°	38.8	38.8	37.9	38.2	37.4	37.1	37.1	38.2	38.8	37.7	34.5
130°	34.5	34.2	33.1	33.3	32.8	32.8	33.3	34.2	34.8	33.6	31.0
132.5°	29.3	29.3	27.9	28.2	27.9	28.2	28.7	29.6	29.9	29.3	27.0
135°	24.1	24.1	23.0	23.3	23.0	23.0	23.9	24.4	25.0	24.4	22.4
137.5°	19.3	19.3	18.1	18.4	18.1	17.8	18.4	18.7	19.0	18.4	17.5
140°	14.9	14.9	14.4	14.4	13.8	13.5	13.8	14.1	14.1	13.8	13.2
142.5°	11.8	12.1	11.5	11.5	10.6	10.6	10.6	10.9	10.9	10.9	10.3
145°	8.9	9.2	8.6	8.6	8.0	8.0	8.0	8.3	8.3	8.3	7.8
147.5°	6.3	6.3	6.0	6.0	5.5	5.7	5.7	6.0	6.0	5.7	5.5
150°	3.2	3.2	3.2	3.2	3.2	3.2	3.4	3.4	3.4	3.4	3.2
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°	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8
2.5°	24.4	23.3	21.6	19.8	17.8	16.4	14.9	14.4	13.8	13.2	13.2
5°	30.2	28.7	26.4	23.9	22.4	20.4	19.3	18.1	17.5	17.5	17.5
7.5°	36.2	34.8	31.6	28.2	26.4	24.1	23.3	22.1	21.3	20.4	20.1
10°	38.8	37.4	34.5	31.6	29.3	27.0	25.0	23.9	22.4	21.6	21.6
12.5°	41.4	39.7	36.8	33.9	31.0	28.2	26.2	24.4	23.0	21.8	21.6
15°	44.0	42.3	39.1	35.9	32.5	29.3	27.0	25.0	23.3	22.1	21.8
17.5°	46.6	44.8	41.4	37.9	34.2	30.8	28.2	25.6	23.9	22.7	22.4
20°	49.2	47.1	43.7	40.0	35.9	32.5	29.0	26.4	24.7	23.6	23.3
22.5°	52.0	49.7	46.0	42.0	37.7	34.2	30.2	27.3	25.3	24.4	24.4
25°	54.9	52.0	48.3	43.7	39.7	35.9	31.3	28.2	26.2	25.6	25.9
27.5°	56.9	53.8	50.0	45.4	41.1	37.4	32.8	29.0	27.0	27.0	27.0
30°	58.1	55.5	51.5	46.9	42.8	38.8	33.9	30.2	28.2	28.2	28.2
32.5°	58.6	56.1	52.0	47.7	44.0	40.2	35.1	31.3	29.3	29.6	29.6
35°	59.2	56.9	52.9	48.6	45.1	41.1	36.5	32.8	31.0	31.3	31.0
37.5°	60.7	58.1	54.0	49.7	46.6	42.5	38.2	34.5	33.1	33.3	33.1
40°	65.3	62.1	57.8	52.6	49.4	44.8	40.5	36.5	35.6	35.6	35.4
42.5°	74.7	70.4	65.3	58.9	54.3	48.6	43.7	39.4	38.2	37.9	37.7
45°	90.8	83.9	78.5	69.3	62.1	54.6	48.3	42.8	41.4	40.8	40.5
47.5°	111.5	103.5	96.3	86.2	75.0	63.5	55.2	47.7	45.4	44.3	43.7
50°	141.7	128.2	118.7	106.4	92.0	75.9	63.8	54.0	50.0	47.4	46.9
52.5°	177.9	160.1	150.1	132.5	112.7	91.1	74.7	60.7	54.9	51.5	51.2
55°	215.3	192.9	181.1	161.3	134.5	109.2	87.4	69.0	60.9	56.3	55.8
57.5°	240.3	215.9	204.4	183.4	152.9	125.9	99.2	76.8	69.0	61.8	61.2
60°	259.3	233.1	222.5	197.2	165.6	138.8	107.5	84.2	73.3	66.4	65.3
62.5°	275.7	247.5	239.2	209.0	177.1	148.0	114.4	90.8	78.2	72.2	70.1
65°	292.1	263.3	253.2	222.2	186.3	157.2	121.0	98.6	85.7	77.0	77.0
67.5°	307.6	278.3	267.6	234.9	197.8	166.1	125.6	104.9	90.8	82.2	82.2
70°	321.7	289.2	280.8	246.4	209.0	173.3	125.3	111.0	93.7	85.9	82.5
72.5°	333.4	299.2	291.2	256.4	217.9	181.1	128.5	117.0	93.7	87.1	85.1
75°	339.8	306.4	301.3	262.4	227.7	187.4	133.7	117.6	96.0	86.8	85.4
77.5°	347.2	312.8	307.6	267.6	232.0	192.3	139.1	121.6	97.2	87.4	84.8
79°	345.5	311.9	309.0	268.8	233.7	193.7	142.0	121.9	98.0	87.1	85.1
80°	341.5	309.6	305.0	264.2	231.7	191.4	142.0	121.9	100.9	86.5	84.2
82.5°	338.0	306.7	302.7	262.7	228.2	187.4	142.3	121.6	97.7	84.8	82.8
85°	327.7	298.4	292.3	254.4	223.1	182.8	140.3	120.2	97.2	80.8	79.6
87.5°	317.6	289.2	284.9	247.2	215.9	177.1	137.7	116.7	93.4	77.9	77.0
90°	307.6	279.4	274.2	238.6	207.0	167.9	130.8	111.8	89.7	72.7	73.0
92.5°	288.3	263.0	257.6	224.5	194.0	157.8	122.7	104.3	83.6	69.0	67.6
95°	270.8	246.9	241.5	211.3	181.4	147.8	112.7	96.3	76.5	63.2	62.4
97.5°	253.2	229.7	223.9	196.0	166.7	135.4	101.5	86.5	67.6	56.3	54.6
100°	225.9	204.7	197.2	171.0	141.7	116.1	84.8	72.4	56.3	46.9	44.8
102.5°	171.0	153.8	146.0	127.6	100.6	83.1	61.5	53.5	41.4	35.4	34.2
105°	95.4	86.8	83.4	72.7	60.7	50.3	38.5	35.6	28.5	25.3	25.0
107.5°	63.8	58.6	56.1	50.9	42.5	35.6	27.9	26.2	21.6	19.3	19.0



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CATALOG NUMBER: MPN-A2-D-U-ASYM-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	51.7	48.0	45.7	41.4	35.1	29.3	23.3	21.8	18.1	16.4	16.1
112.5°	46.6	42.8	40.8	36.8	31.0	25.9	20.7	19.3	16.1	14.7	14.4
115°	43.1	40.0	37.7	33.9	28.5	23.6	19.0	17.5	14.9	13.2	12.9
117.5°	40.8	37.7	35.4	31.6	26.7	21.8	17.8	16.1	13.5	11.8	11.8
120°	38.8	35.9	33.6	29.9	25.0	20.4	16.4	14.4	12.1	10.3	10.3
122.5°	37.1	34.2	31.9	27.9	23.0	18.4	14.9	12.6	10.6	8.9	8.9
125°	35.1	32.5	29.9	25.9	21.0	16.7	13.2	10.9	8.9	7.5	7.5
127.5°	32.5	30.2	27.3	23.3	19.0	14.7	11.8	9.5	7.5	6.3	6.3
130°	29.6	27.0	24.1	20.4	16.4	12.6	9.8	8.0	6.3	5.5	5.2
132.5°	25.6	23.6	20.7	17.5	13.8	10.6	8.0	6.6	5.2	4.3	4.3
135°	21.6	19.5	17.2	14.1	11.2	8.3	6.3	5.2	4.3	3.4	3.4
137.5°	16.7	15.2	13.5	10.9	8.3	6.3	4.9	4.0	3.2	2.6	2.6
140°	12.6	11.8	10.3	8.0	6.3	4.9	3.7	3.2	2.6	2.0	1.7
142.5°	9.8	9.2	8.0	6.3	4.9	3.7	2.9	2.3	1.7	1.4	1.1
145°	7.5	6.9	6.0	4.6	3.4	2.6	2.0	1.4	1.1	0.9	0.6
147.5°	5.5	4.9	4.0	3.2	2.3	1.4	1.1	0.9	0.6	0.3	0.3
150°	2.9	2.6	2.3	1.7	1.1	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)