

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: P314559

Luminaire Tested: **MPN-A3-D-U-ASYM-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314559
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-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: 2700 lumens
Efficiency: N/A
Efficacy: 93.8 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): 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



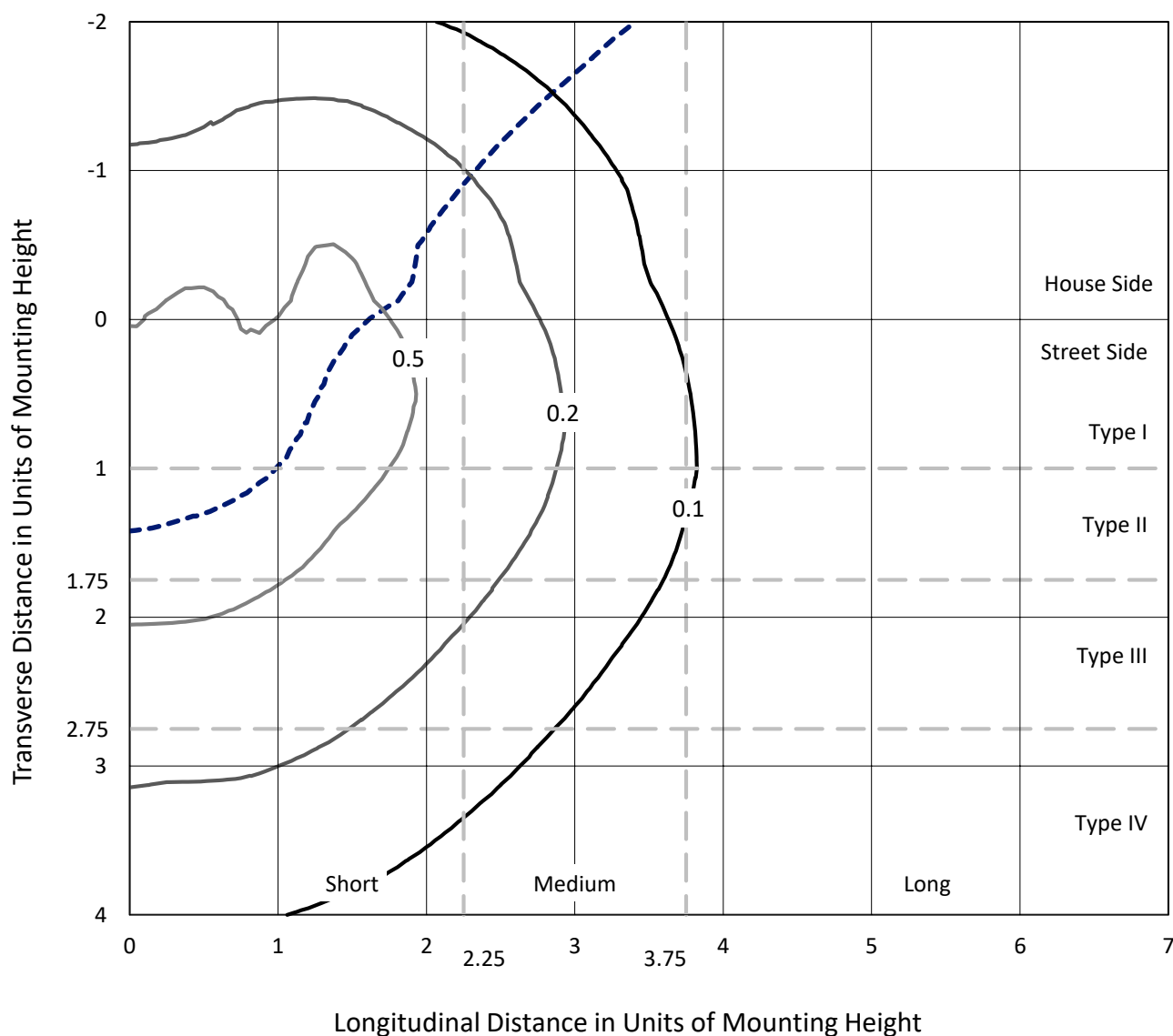
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

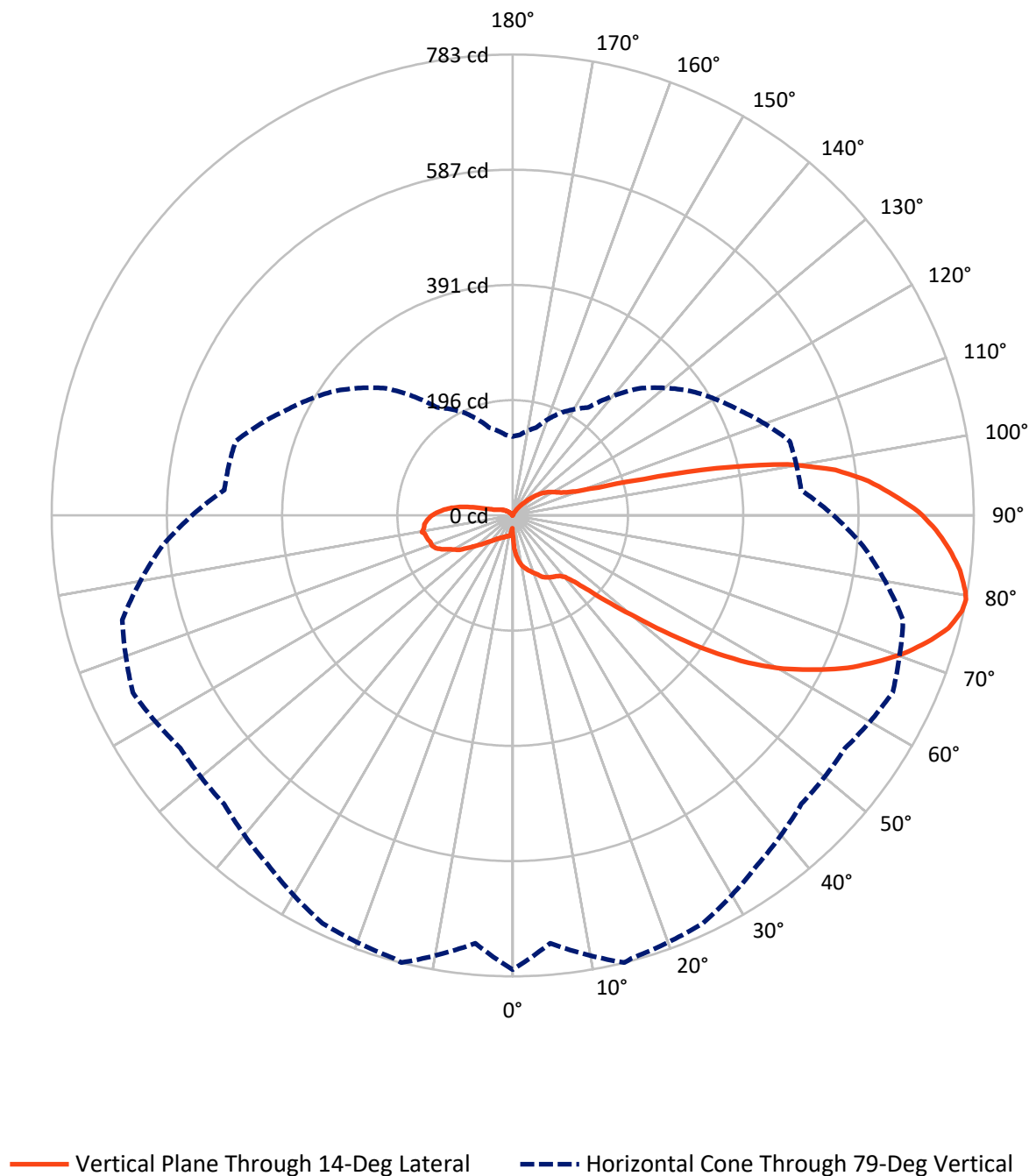


Based on 10 foot mounting height. Maximum calculated value = 0.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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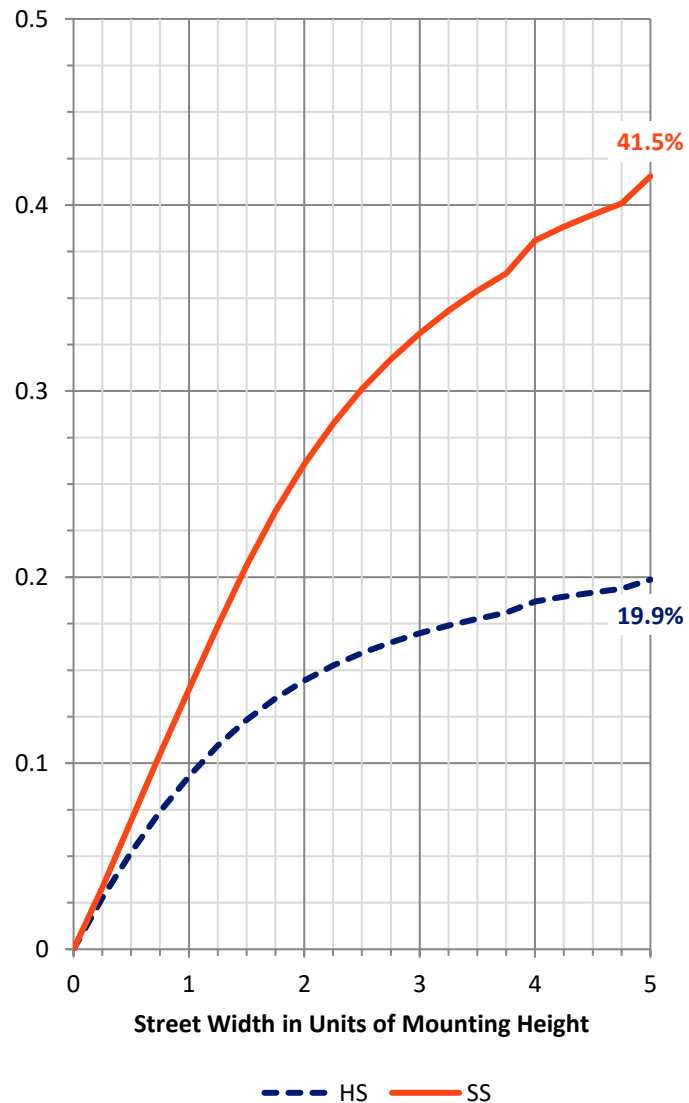
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	610.8	226.1	836.9
	% Fixture	22.6	8.4	31.0
Street Side	Lumens	1345.2	517.9	1863.1
	% Fixture	49.8	19.2	69.0
Total	Lumens	1956.0	744.0	2700.0
	% Fixture	72.4	27.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.0	0.2
10°-20°	19.4	0.7
20°-30°	37.8	1.4
30°-40°	57.7	2.1
40°-50°	108.3	4.0
50°-60°	260.4	9.6
60°-70°	417.0	15.4
70°-80°	523.5	19.4
80°-90°	526.9	19.5
90°-100°	430.1	15.9
100°-110°	182.0	6.7
110°-120°	62.9	2.3
120°-130°	41.9	1.6
130°-140°	20.8	0.8
140°-150°	6.0	0.2
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1956.0	72.4
0°-180°	2700.0	100.0

Coefficient of Utilization



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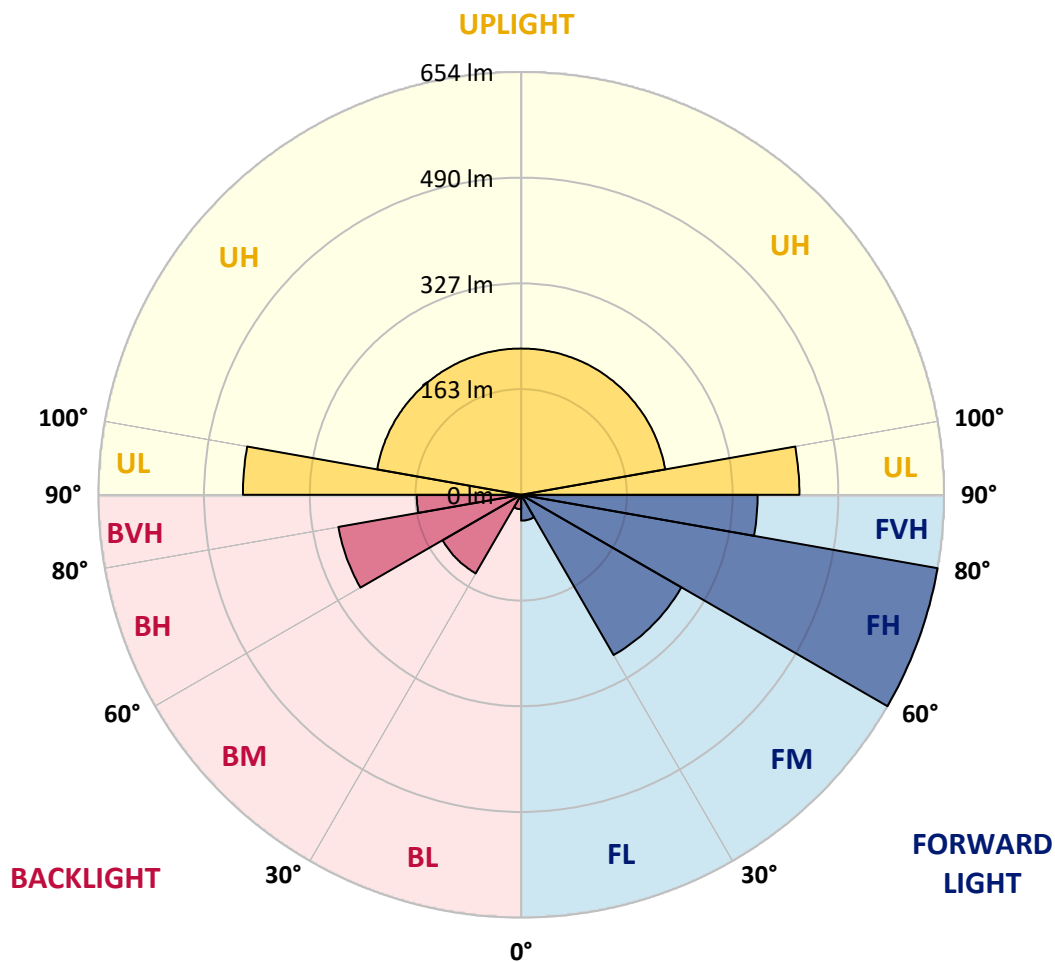
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	40.0	1.5			
FM	(30°-60°)	286.0	10.6			
FH	(60°-80°)	653.7	24.2			G0/660
FVH	(80°-90°)	365.6	13.5			G3/500
BL	(0°-30°)	22.2	0.8	B0/110		
BM	(30°-60°)	140.4	5.2	B0/220		
BH	(60°-80°)	286.9	10.6	B1/500		G1/500
BVH	(80°-90°)	161.3	6.0			G2/225
UL	(90°-100°)	430.1	15.9		U3/500	
UH	(100°-180°)	226.1	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°	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4
2.5°	58.9	57.1	57.1	57.1	55.7	53.5	51.2	49.8	46.7	43.9	39.9
5°	71.6	70.7	69.8	69.8	68.4	68.0	65.7	62.1	58.4	54.8	50.3
7.5°	81.1	80.2	79.3	79.7	77.9	76.1	73.9	70.7	67.1	63.4	58.9
10°	87.4	87.0	86.5	86.5	84.3	82.0	79.3	76.6	72.5	68.4	63.4
12.5°	92.0	91.5	91.5	91.5	89.3	86.1	83.8	80.6	77.0	72.5	67.5
15°	96.5	96.5	96.1	95.6	93.3	90.6	88.4	85.6	82.0	77.0	72.0
17.5°	101.0	100.6	100.1	100.1	97.9	95.1	92.9	90.6	86.1	81.1	76.1
20°	106.5	105.6	104.7	104.7	102.4	99.2	97.4	95.1	90.6	85.6	80.2
22.5°	111.9	111.0	109.2	109.2	107.4	103.8	102.8	100.1	95.6	90.2	84.7
25°	117.8	117.3	115.5	115.1	112.8	108.3	107.4	105.1	100.1	94.7	89.3
27.5°	122.3	121.9	119.2	119.2	117.3	113.3	111.0	108.3	103.3	97.4	92.9
30°	125.5	125.1	122.3	121.9	119.6	116.9	114.2	110.1	105.1	99.2	95.1
32.5°	126.9	126.9	124.6	124.1	121.4	119.2	116.4	112.4	106.0	100.6	96.1
35°	129.6	129.1	126.9	126.4	123.2	121.4	117.8	112.8	106.9	101.5	97.0
37.5°	132.3	132.3	130.5	130.0	126.4	124.6	121.0	116.4	110.1	104.7	99.7
40°	138.6	139.1	137.7	137.3	133.7	132.8	129.6	126.4	121.9	116.4	107.8
42.5°	153.1	153.6	154.0	153.1	150.4	149.1	146.3	145.9	141.8	135.0	126.9
45°	178.1	180.8	182.1	180.8	177.2	176.7	174.4	175.3	172.2	165.4	155.0
47.5°	216.1	217.9	222.9	222.9	217.9	216.6	214.8	215.2	215.2	207.5	191.7
50°	264.1	267.8	271.4	274.1	271.9	268.2	266.0	270.5	274.1	263.2	241.9
52.5°	322.6	326.2	337.1	336.2	333.5	331.7	333.0	341.6	349.8	340.3	306.3
55°	391.0	396.0	406.0	408.2	402.8	400.5	399.2	411.9	425.4	415.5	369.7
57.5°	459.4	464.4	473.0	476.6	469.4	462.1	449.0	463.1	479.8	467.1	411.9
60°	516.5	519.2	528.7	532.8	525.1	514.7	490.7	504.7	523.3	509.7	447.6
62.5°	568.2	569.1	576.8	580.4	571.3	560.5	531.9	544.2	559.6	546.4	478.9
65°	608.9	608.5	624.8	626.2	612.1	597.2	570.0	581.3	593.5	579.5	504.7
67.5°	650.2	645.2	664.7	666.0	652.0	632.5	604.9	610.8	618.5	608.0	533.3
70°	684.2	677.8	703.6	705.9	685.1	659.2	637.0	640.7	652.0	635.7	556.8
72.5°	719.5	704.1	736.3	737.6	718.6	684.6	662.4	661.5	674.6	656.5	574.5
75°	748.0	718.1	764.4	762.5	744.9	706.8	682.3	680.5	697.7	676.0	587.6
77.5°	774.3	731.3	780.2	778.4	762.1	720.4	693.2	691.4	710.0	686.9	599.4
79°	771.6	729.5	782.9	778.9	764.4	724.5	693.2	689.1	711.8	686.4	597.6
80°	772.1	724.0	779.3	775.7	759.8	720.4	686.0	679.6	700.0	675.1	589.0
82.5°	753.9	711.3	765.3	759.8	747.6	711.3	676.9	671.9	699.1	671.5	585.4
85°	734.9	691.9	744.4	740.8	729.5	693.7	658.3	646.1	670.1	642.9	565.0
87.5°	705.0	667.4	719.5	716.8	705.9	674.2	637.0	628.4	653.8	629.3	550.9
90°	679.2	642.0	689.6	686.9	676.9	646.1	612.1	610.8	636.6	612.1	533.3
92.5°	639.8	604.9	648.8	645.6	638.4	612.1	580.9	576.8	598.1	570.9	499.3
95°	600.3	566.8	607.1	605.8	596.3	573.6	543.7	536.0	557.3	537.4	470.3
97.5°	548.2	516.5	553.7	553.2	546.4	525.1	499.8	496.6	518.8	498.4	438.1
100°	467.6	439.9	475.3	471.2	472.1	454.9	434.1	440.4	462.6	448.1	393.7
102.5°	347.5	333.9	355.2	357.0	358.4	346.6	338.9	338.0	359.3	346.2	302.7
105°	226.5	220.2	231.1	232.9	230.2	221.6	200.7	202.5	204.8	193.9	168.5
107.5°	151.3	148.6	153.1	154.0	151.8	144.5	132.3	130.9	131.8	126.0	110.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	116.0	114.6	117.3	117.8	116.0	109.2	102.4	101.9	102.8	98.8	88.4
112.5°	99.2	98.3	99.7	99.7	98.3	93.3	89.3	89.3	90.6	87.4	78.8
115°	90.6	89.7	90.2	90.6	88.8	84.3	81.1	82.0	83.4	80.6	72.9
117.5°	84.3	83.8	83.8	83.8	82.5	78.4	76.6	77.0	78.4	75.7	68.9
120°	78.8	78.8	78.4	78.4	77.0	73.9	72.5	73.4	74.3	72.0	65.7
122.5°	73.4	73.4	72.9	72.9	72.0	69.3	68.4	69.8	70.7	68.0	62.5
125°	67.5	67.5	66.6	66.6	65.7	64.3	63.9	65.2	66.2	63.9	58.4
127.5°	61.2	61.2	59.8	60.3	58.9	58.4	58.4	60.3	61.2	59.4	54.4
130°	54.4	53.9	52.1	52.6	51.7	51.7	52.6	53.9	54.8	53.0	48.9
132.5°	46.2	46.2	43.9	44.4	43.9	44.4	45.3	46.7	47.1	46.2	42.6
135°	38.1	38.1	36.2	36.7	36.2	36.2	37.6	38.5	39.4	38.5	35.3
137.5°	30.4	30.4	28.5	29.0	28.5	28.1	29.0	29.5	29.9	29.0	27.6
140°	23.6	23.6	22.7	22.7	21.7	21.3	21.7	22.2	22.2	21.7	20.8
142.5°	18.6	19.0	18.1	18.1	16.8	16.8	16.8	17.2	17.2	17.2	16.3
145°	14.0	14.5	13.6	13.6	12.7	12.7	12.7	13.1	13.1	13.1	12.2
147.5°	10.0	10.0	9.5	9.5	8.6	9.1	9.1	9.5	9.5	9.1	8.6
150°	5.0	5.0	5.0	5.0	5.0	5.0	5.4	5.4	5.4	5.4	5.0
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	0.0	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°	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4
2.5°	38.5	36.7	34.0	31.3	28.1	25.8	23.6	22.7	21.7	20.8	20.8
5°	47.6	45.3	41.7	37.6	35.3	32.2	30.4	28.5	27.6	27.6	27.6
7.5°	57.1	54.8	49.8	44.4	41.7	38.1	36.7	34.9	33.5	32.2	31.7
10°	61.2	58.9	54.4	49.8	46.2	42.6	39.4	37.6	35.3	34.0	34.0
12.5°	65.2	62.5	58.0	53.5	48.9	44.4	41.2	38.5	36.2	34.4	34.0
15°	69.3	66.6	61.6	56.6	51.2	46.2	42.6	39.4	36.7	34.9	34.4
17.5°	73.4	70.7	65.2	59.8	53.9	48.5	44.4	40.3	37.6	35.8	35.3
20°	77.5	74.3	68.9	63.0	56.6	51.2	45.8	41.7	39.0	37.2	36.7
22.5°	82.0	78.4	72.5	66.2	59.4	53.9	47.6	43.0	39.9	38.5	38.5
25°	86.5	82.0	76.1	68.9	62.5	56.6	49.4	44.4	41.2	40.3	40.8
27.5°	89.7	84.7	78.8	71.6	64.8	58.9	51.7	45.8	42.6	42.6	42.6
30°	91.5	87.4	81.1	73.9	67.5	61.2	53.5	47.6	44.4	44.4	44.4
32.5°	92.4	88.4	82.0	75.2	69.3	63.4	55.3	49.4	46.2	46.7	46.7
35°	93.3	89.7	83.4	76.6	71.1	64.8	57.5	51.7	48.9	49.4	48.9
37.5°	95.6	91.5	85.2	78.4	73.4	67.1	60.3	54.4	52.1	52.6	52.1
40°	102.8	97.9	91.1	82.9	77.9	70.7	63.9	57.5	56.2	56.2	55.7
42.5°	117.8	111.0	102.8	92.9	85.6	76.6	68.9	62.1	60.3	59.8	59.4
45°	143.2	132.3	123.7	109.2	97.9	86.1	76.1	67.5	65.2	64.3	63.9
47.5°	175.8	163.1	151.8	135.9	118.3	100.1	87.0	75.2	71.6	69.8	68.9
50°	223.4	202.1	187.1	167.6	145.0	119.6	100.6	85.2	78.8	74.8	73.9
52.5°	280.5	252.4	236.5	208.9	177.6	143.6	117.8	95.6	86.5	81.1	80.6
55°	339.4	304.0	285.4	254.2	212.0	172.2	137.7	108.7	96.1	88.8	87.9
57.5°	378.8	340.3	322.1	289.1	241.0	198.5	156.3	121.0	108.7	97.4	96.5
60°	408.7	367.5	350.7	310.8	261.0	218.8	169.5	132.8	115.5	104.7	102.8
62.5°	434.5	390.1	377.0	329.4	279.1	233.3	180.3	143.2	123.2	113.7	110.6
65°	460.3	415.0	399.2	350.2	293.6	247.8	190.7	155.4	135.0	121.4	121.4
67.5°	484.8	438.6	421.8	370.2	311.7	261.9	198.0	165.4	143.2	129.6	129.6
70°	507.0	455.8	442.7	388.3	329.4	273.2	197.5	174.9	147.7	135.5	130.0
72.5°	525.6	471.7	459.0	404.2	343.4	285.4	202.5	184.4	147.7	137.3	134.1
75°	535.5	483.0	474.8	413.7	358.8	295.4	210.7	185.3	151.3	136.8	134.6
77.5°	547.3	493.0	484.8	421.8	365.6	303.1	219.3	191.7	153.1	137.7	133.7
79°	544.6	491.6	487.1	423.6	368.4	305.4	223.8	192.1	154.5	137.3	134.1
80°	538.3	488.0	480.7	416.4	365.2	301.8	223.8	192.1	159.0	136.4	132.8
82.5°	532.8	483.4	477.1	414.1	359.7	295.4	224.3	191.7	154.0	133.7	130.5
85°	516.5	470.3	460.8	401.0	351.6	288.2	221.1	189.4	153.1	127.3	125.5
87.5°	500.7	455.8	449.0	389.7	340.3	279.1	217.0	184.0	147.3	122.8	121.4
90°	484.8	440.4	432.2	376.1	326.2	264.6	206.2	176.2	141.4	114.6	115.1
92.5°	454.4	414.6	406.0	353.9	305.8	248.7	193.5	164.5	131.8	108.7	106.5
95°	426.8	389.2	380.6	333.0	285.9	232.9	177.6	151.8	120.5	99.7	98.3
97.5°	399.2	362.0	353.0	309.0	262.8	213.4	159.9	136.4	106.5	88.8	86.1
100°	356.1	322.6	310.8	269.6	223.4	183.0	133.7	114.2	88.8	73.9	70.7
102.5°	269.6	242.4	230.2	201.2	158.6	130.9	97.0	84.3	65.2	55.7	53.9
105°	150.4	136.8	131.4	114.6	95.6	79.3	60.7	56.2	44.9	39.9	39.4
107.5°	100.6	92.4	88.4	80.2	67.1	56.2	43.9	41.2	34.0	30.4	29.9



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CATALOG NUMBER: MPN-A3-D-U-ASYM-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	81.6	75.7	72.0	65.2	55.3	46.2	36.7	34.4	28.5	25.8	25.4
112.5°	73.4	67.5	64.3	58.0	48.9	40.8	32.6	30.4	25.4	23.1	22.7
115°	68.0	63.0	59.4	53.5	44.9	37.2	29.9	27.6	23.6	20.8	20.4
117.5°	64.3	59.4	55.7	49.8	42.1	34.4	28.1	25.4	21.3	18.6	18.6
120°	61.2	56.6	53.0	47.1	39.4	32.2	25.8	22.7	19.0	16.3	16.3
122.5°	58.4	53.9	50.3	43.9	36.2	29.0	23.6	19.9	16.8	14.0	14.0
125°	55.3	51.2	47.1	40.8	33.1	26.3	20.8	17.2	14.0	11.8	11.8
127.5°	51.2	47.6	43.0	36.7	29.9	23.1	18.6	15.0	11.8	10.0	10.0
130°	46.7	42.6	38.1	32.2	25.8	19.9	15.4	12.7	10.0	8.6	8.2
132.5°	40.3	37.2	32.6	27.6	21.7	16.8	12.7	10.4	8.2	6.8	6.8
135°	34.0	30.8	27.2	22.2	17.7	13.1	10.0	8.2	6.8	5.4	5.4
137.5°	26.3	24.0	21.3	17.2	13.1	10.0	7.7	6.3	5.0	4.1	4.1
140°	19.9	18.6	16.3	12.7	10.0	7.7	5.9	5.0	4.1	3.2	2.7
142.5°	15.4	14.5	12.7	10.0	7.7	5.9	4.5	3.6	2.7	2.3	1.8
145°	11.8	10.9	9.5	7.2	5.4	4.1	3.2	2.3	1.8	1.4	0.9
147.5°	8.6	7.7	6.3	5.0	3.6	2.3	1.8	1.4	0.9	0.5	0.5
150°	4.5	4.1	3.6	2.7	1.8	0.9	0.5	0.5	0.0	0.0	0.0
152.5°	0.9	0.9	0.9	0.9	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)