

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: P314572

Luminaire Tested: **MPN-A4-D-U-ASYM**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314572
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-A4-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: 3767 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.58')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U4 - G4

Input Watts (W): 39.5
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

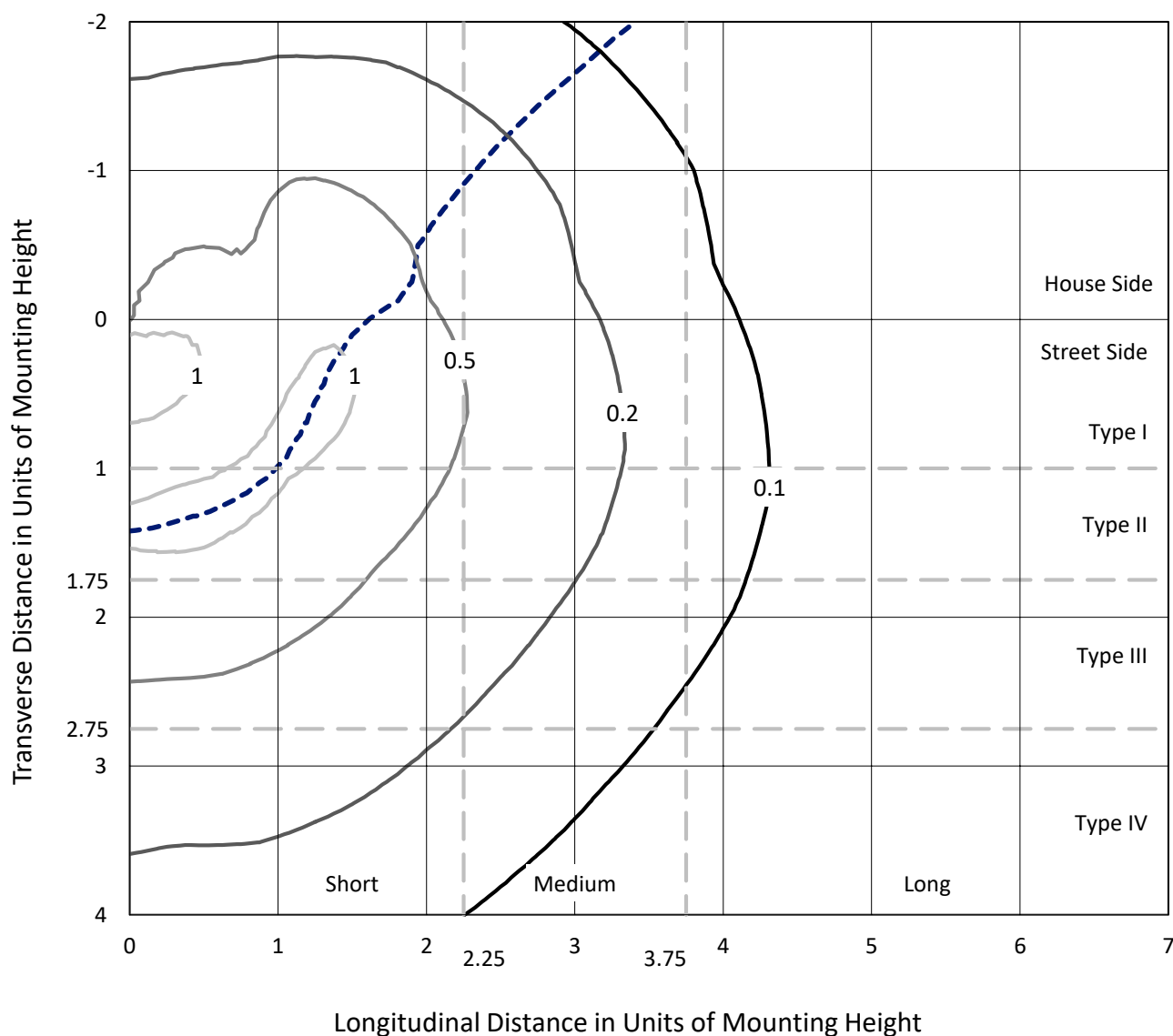


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

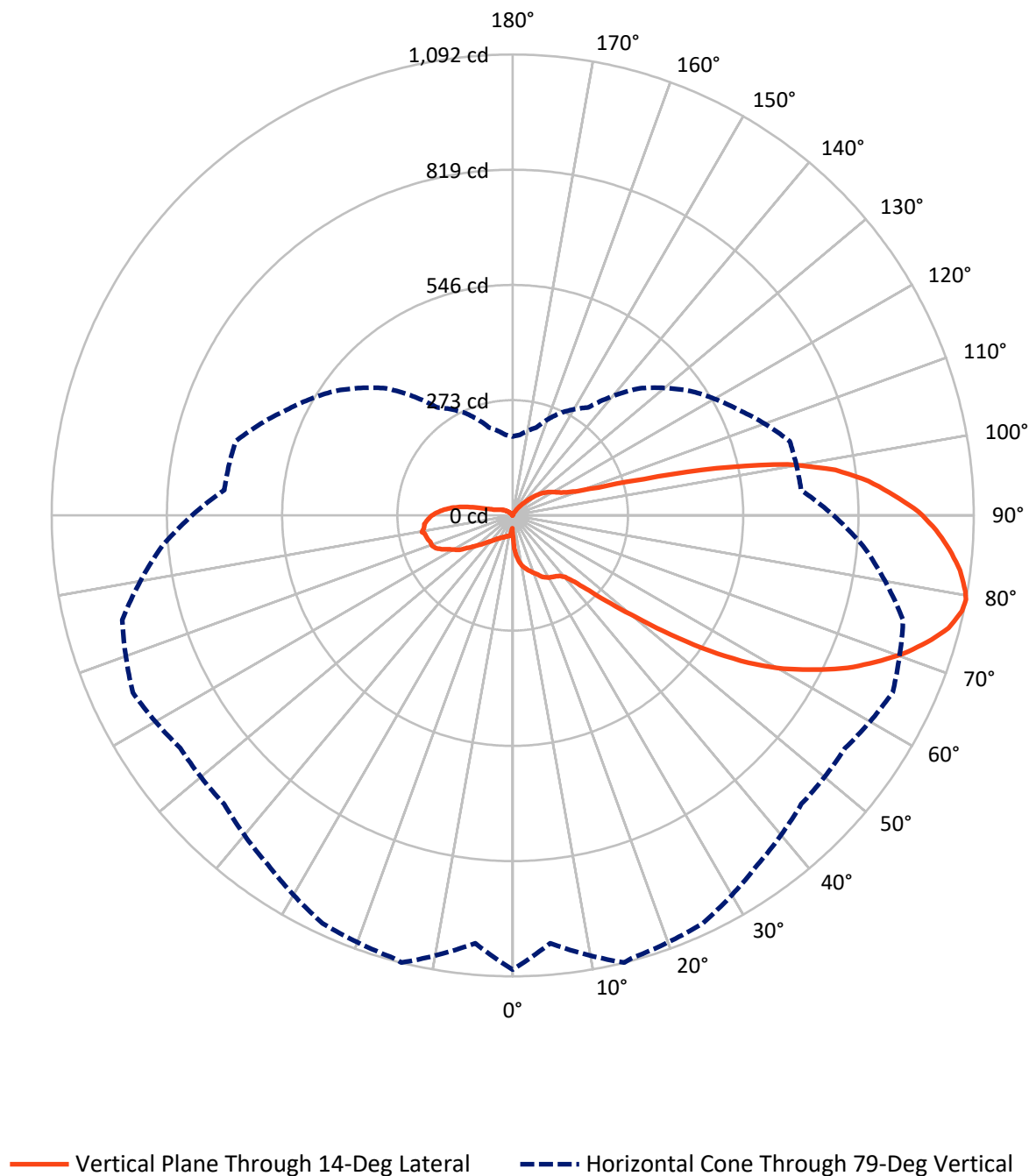


Based on 10 foot mounting height. Maximum calculated value = 1.2 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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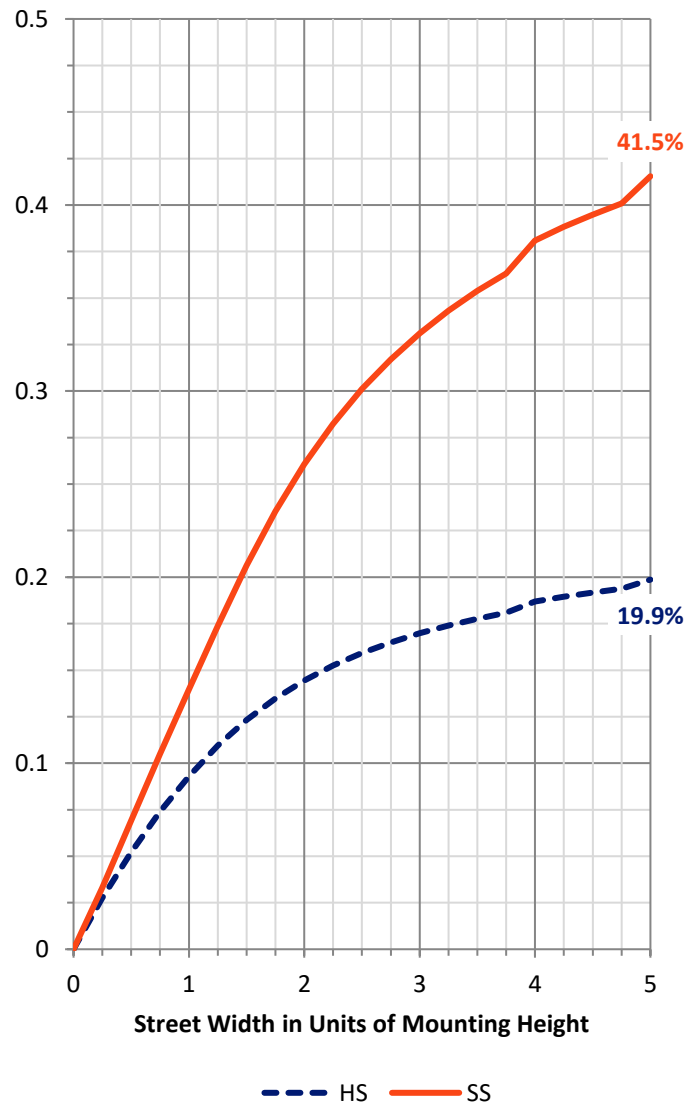
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	852.2	315.5	1167.6
	% Fixture	22.6	8.4	31.0
Street Side	Lumens	1876.8	722.5	2599.3
	% Fixture	49.8	19.2	69.0
Total	Lumens	2729.0	1038.0	3767.0
	% Fixture	72.4	27.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.0	0.2
10°-20°	27.0	0.7
20°-30°	52.8	1.4
30°-40°	80.4	2.1
40°-50°	151.1	4.0
50°-60°	363.3	9.6
60°-70°	581.8	15.4
70°-80°	730.4	19.4
80°-90°	735.1	19.5
90°-100°	600.1	15.9
100°-110°	253.9	6.7
110°-120°	87.8	2.3
120°-130°	58.5	1.6
130°-140°	29.0	0.8
140°-150°	8.3	0.2
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2729.0	72.4
0°-180°	3767.0	100.0

Coefficient of Utilization



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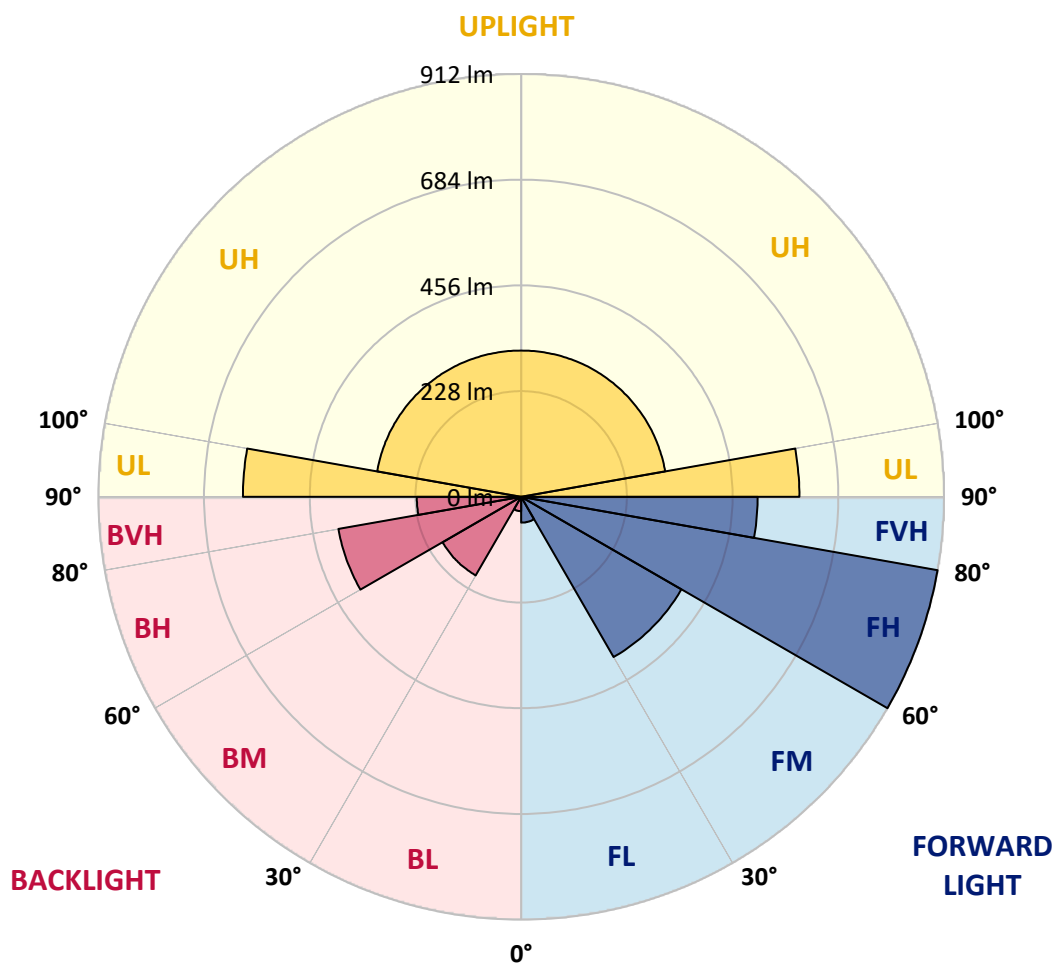
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	55.8	1.5			
FM	(30°-60°)	399.0	10.6			
FH	(60°-80°)	912.0	24.2			G1/1800
FVH	(80°-90°)	510.1	13.5			G4/750
BL	(0°-30°)	31.0	0.8	B0/110		
BM	(30°-60°)	195.9	5.2	B0/220		
BH	(60°-80°)	400.2	10.6	B1/500		G1/500
BVH	(80°-90°)	225.1	6.0			G3/500
UL	(90°-100°)	600.1	15.9		U4/1000	
UH	(100°-180°)	315.5	8.4		U3/500	

BUG Rating: B1-U4-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
0°	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0
2.5°	82.2	79.6	79.6	79.6	77.8	74.6	71.4	69.5	65.1	61.3	55.6
5°	99.9	98.6	97.3	97.3	95.5	94.8	91.7	86.6	81.5	76.5	70.2
7.5°	113.2	111.9	110.6	111.3	108.7	106.2	103.0	98.6	93.6	88.5	82.2
10°	122.0	121.4	120.7	120.7	117.6	114.4	110.6	106.8	101.1	95.5	88.5
12.5°	128.3	127.7	127.7	127.7	124.5	120.1	116.9	112.5	107.5	101.1	94.2
15°	134.6	134.6	134.0	133.4	130.2	126.4	123.3	119.5	114.4	107.5	100.5
17.5°	141.0	140.3	139.7	139.7	136.5	132.7	129.6	126.4	120.1	113.2	106.2
20°	148.6	147.3	146.0	146.0	142.9	138.4	135.9	132.7	126.4	119.5	111.9
22.5°	156.1	154.9	152.3	152.3	149.8	144.8	143.5	139.7	133.4	125.8	118.2
25°	164.4	163.7	161.2	160.6	157.4	151.1	149.8	146.7	139.7	132.1	124.5
27.5°	170.7	170.0	166.3	166.3	163.7	158.0	154.9	151.1	144.1	135.9	129.6
30°	175.1	174.5	170.7	170.0	166.9	163.1	159.3	153.6	146.7	138.4	132.7
32.5°	177.0	177.0	173.8	173.2	169.4	166.3	162.5	156.8	147.9	140.3	134.0
35°	180.8	180.2	177.0	176.4	171.9	169.4	164.4	157.4	149.2	141.6	135.3
37.5°	184.6	184.6	182.1	181.4	176.4	173.8	168.8	162.5	153.6	146.0	139.1
40°	193.4	194.1	192.2	191.5	186.5	185.2	180.8	176.4	170.0	162.5	150.4
42.5°	213.7	214.3	214.9	213.7	209.9	208.0	204.2	203.5	197.9	188.4	177.0
45°	248.4	252.2	254.1	252.2	247.2	246.5	243.4	244.6	240.2	230.7	216.2
47.5°	301.5	304.1	311.0	311.0	304.1	302.2	299.6	300.3	300.3	289.5	267.4
50°	368.5	373.6	378.6	382.4	379.3	374.2	371.1	377.4	382.4	367.3	337.6
52.5°	450.1	455.1	470.3	469.0	465.3	462.7	464.6	476.6	488.0	474.7	427.3
55°	545.5	552.5	566.4	569.6	562.0	558.8	556.9	574.6	593.6	579.7	515.8
57.5°	641.0	647.9	659.9	665.0	654.9	644.8	626.4	646.0	669.4	651.7	574.6
60°	720.6	724.4	737.7	743.4	732.6	718.1	684.6	704.2	730.1	711.2	624.5
62.5°	792.7	794.0	804.7	809.8	797.1	782.0	742.1	759.2	780.7	762.4	668.2
65°	849.6	849.0	871.7	873.6	854.0	833.2	795.2	811.0	828.1	808.5	704.2
67.5°	907.1	900.2	927.3	929.2	909.6	882.5	843.9	852.1	862.9	848.3	744.0
70°	954.5	945.7	981.7	984.9	955.8	919.8	888.8	893.8	909.6	886.9	776.9
72.5°	1003.8	982.3	1027.2	1029.1	1002.6	955.2	924.2	922.9	941.2	916.0	801.5
75°	1043.7	1001.9	1066.4	1063.9	1039.2	986.1	952.0	949.5	973.5	943.1	819.9
77.5°	1080.3	1020.3	1088.5	1086.0	1063.3	1005.1	967.2	964.6	990.6	958.3	836.3
79°	1076.5	1017.7	1092.3	1086.6	1066.4	1010.8	967.2	961.5	993.1	957.7	833.8
80°	1077.2	1010.2	1087.3	1082.2	1060.1	1005.1	957.1	948.2	976.6	941.9	821.8
82.5°	1051.9	992.5	1067.7	1060.1	1043.0	992.5	944.4	937.5	975.4	936.8	816.7
85°	1025.3	965.3	1038.6	1033.5	1017.7	967.8	918.5	901.4	934.9	897.0	788.3
87.5°	983.6	931.1	1003.8	1000.0	984.9	940.6	888.8	876.8	912.2	878.0	768.7
90°	947.6	895.7	962.1	958.3	944.4	901.4	854.0	852.1	888.2	854.0	744.0
92.5°	892.6	843.9	905.2	900.8	890.7	854.0	810.4	804.7	834.4	796.5	696.6
95°	837.6	790.8	847.1	845.2	831.9	800.3	758.6	747.8	777.5	749.7	656.2
97.5°	764.9	720.6	772.5	771.8	762.4	732.6	697.2	692.8	723.8	695.3	611.3
100°	652.4	613.8	663.1	657.4	658.7	634.7	605.6	614.4	645.4	625.2	549.3
102.5°	484.8	465.9	495.6	498.1	500.0	483.6	472.8	471.6	501.3	483.0	422.3
105°	316.1	307.2	322.4	324.9	321.1	309.1	280.0	282.6	285.7	270.6	235.2
107.5°	211.1	207.3	213.7	214.9	211.8	201.7	184.6	182.7	184.0	175.7	154.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	161.8	159.9	163.7	164.4	161.8	152.3	142.9	142.2	143.5	137.8	123.3
112.5°	138.4	137.2	139.1	139.1	137.2	130.2	124.5	124.5	126.4	122.0	110.0
115°	126.4	125.2	125.8	126.4	123.9	117.6	113.2	114.4	116.3	112.5	101.8
117.5°	117.6	116.9	116.9	116.9	115.0	109.4	106.8	107.5	109.4	105.6	96.1
120°	110.0	110.0	109.4	109.4	107.5	103.0	101.1	102.4	103.7	100.5	91.7
122.5°	102.4	102.4	101.8	101.8	100.5	96.7	95.5	97.3	98.6	94.8	87.2
125°	94.2	94.2	92.9	92.9	91.7	89.8	89.1	91.0	92.3	89.1	81.5
127.5°	85.3	85.3	83.4	84.1	82.2	81.5	81.5	84.1	85.3	82.8	75.9
130°	75.9	75.2	72.7	73.3	72.1	72.1	73.3	75.2	76.5	74.0	68.3
132.5°	64.5	64.5	61.3	61.9	61.3	61.9	63.2	65.1	65.7	64.5	59.4
135°	53.1	53.1	50.6	51.2	50.6	50.6	52.5	53.7	55.0	53.7	49.3
137.5°	42.4	42.4	39.8	40.5	39.8	39.2	40.5	41.1	41.7	40.5	38.6
140°	32.9	32.9	31.6	31.6	30.3	29.7	30.3	31.0	31.0	30.3	29.1
142.5°	25.9	26.5	25.3	25.3	23.4	23.4	23.4	24.0	24.0	24.0	22.8
145°	19.6	20.2	19.0	19.0	17.7	17.7	17.7	18.3	18.3	18.3	17.1
147.5°	13.9	13.9	13.3	13.3	12.0	12.6	12.6	13.3	13.3	12.6	12.0
150°	7.0	7.0	7.0	7.0	7.0	7.0	7.6	7.6	7.6	7.6	7.0
152.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.3
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	0.6	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.0	0.0
165°	0.0	0.0	0.0	0.6	0.0	0.6	0.6	0.6	0.6	0.0	0.0
167.5°	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0
170°	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0
172.5°	0.6	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0
175°	0.6	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
177.5°	0.6	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0
180°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0
2.5°	53.7	51.2	47.4	43.6	39.2	36.0	32.9	31.6	30.3	29.1	29.1
5°	66.4	63.2	58.2	52.5	49.3	44.9	42.4	39.8	38.6	38.6	38.6
7.5°	79.6	76.5	69.5	61.9	58.2	53.1	51.2	48.7	46.8	44.9	44.2
10°	85.3	82.2	75.9	69.5	64.5	59.4	55.0	52.5	49.3	47.4	47.4
12.5°	91.0	87.2	80.9	74.6	68.3	61.9	57.5	53.7	50.6	48.0	47.4
15°	96.7	92.9	86.0	79.0	71.4	64.5	59.4	55.0	51.2	48.7	48.0
17.5°	102.4	98.6	91.0	83.4	75.2	67.6	61.9	56.3	52.5	49.9	49.3
20°	108.1	103.7	96.1	87.9	79.0	71.4	63.8	58.2	54.4	51.8	51.2
22.5°	114.4	109.4	101.1	92.3	82.8	75.2	66.4	60.1	55.6	53.7	53.7
25°	120.7	114.4	106.2	96.1	87.2	79.0	68.9	61.9	57.5	56.3	56.9
27.5°	125.2	118.2	110.0	99.9	90.4	82.2	72.1	63.8	59.4	59.4	59.4
30°	127.7	122.0	113.2	103.0	94.2	85.3	74.6	66.4	61.9	61.9	61.9
32.5°	129.0	123.3	114.4	104.9	96.7	88.5	77.1	68.9	64.5	65.1	65.1
35°	130.2	125.2	116.3	106.8	99.2	90.4	80.3	72.1	68.3	68.9	68.3
37.5°	133.4	127.7	118.8	109.4	102.4	93.6	84.1	75.9	72.7	73.3	72.7
40°	143.5	136.5	127.1	115.7	108.7	98.6	89.1	80.3	78.4	78.4	77.8
42.5°	164.4	154.9	143.5	129.6	119.5	106.8	96.1	86.6	84.1	83.4	82.8
45°	199.8	184.6	172.6	152.3	136.5	120.1	106.2	94.2	91.0	89.8	89.1
47.5°	245.3	227.6	211.8	189.6	165.0	139.7	121.4	104.9	99.9	97.3	96.1
50°	311.6	281.9	261.1	233.9	202.3	166.9	140.3	118.8	110.0	104.3	103.0
52.5°	391.3	352.1	330.0	291.4	247.8	200.4	164.4	133.4	120.7	113.2	112.5
55°	473.5	424.2	398.2	354.6	295.8	240.2	192.2	151.7	134.0	123.9	122.6
57.5°	528.5	474.7	449.4	403.3	336.3	276.9	218.1	168.8	151.7	135.9	134.6
60°	570.2	512.7	489.3	433.6	364.1	305.3	236.4	185.2	161.2	146.0	143.5
62.5°	606.2	544.3	525.9	459.6	389.4	325.5	251.6	199.8	171.9	158.7	154.2
65°	642.2	579.0	556.9	488.6	409.6	345.8	266.1	216.8	188.4	169.4	169.4
67.5°	676.4	611.9	588.5	516.5	434.9	365.4	276.2	230.7	199.8	180.8	180.8
70°	707.4	635.9	617.6	541.7	459.6	381.2	275.6	244.0	206.1	189.0	181.4
72.5°	733.3	658.1	640.4	563.9	479.2	398.2	282.6	257.3	206.1	191.5	187.1
75°	747.2	673.9	662.5	577.1	500.7	412.2	293.9	258.5	211.1	190.9	187.7
77.5°	763.6	687.8	676.4	588.5	510.1	422.9	306.0	267.4	213.7	192.2	186.5
79°	759.8	685.9	679.5	591.0	513.9	426.1	312.3	268.0	215.6	191.5	187.1
80°	751.0	680.8	670.7	580.9	509.5	421.0	312.3	268.0	221.9	190.3	185.2
82.5°	743.4	674.5	665.6	577.8	501.9	412.2	312.9	267.4	214.9	186.5	182.1
85°	720.6	656.2	642.9	559.4	490.5	402.0	308.5	264.2	213.7	177.6	175.1
87.5°	698.5	635.9	626.4	543.6	474.7	389.4	302.8	256.6	205.4	171.3	169.4
90°	676.4	614.4	603.1	524.7	455.1	369.2	287.6	245.9	197.2	159.9	160.6
92.5°	634.0	578.4	566.4	493.7	426.7	347.0	269.9	229.5	184.0	151.7	148.6
95°	595.5	543.0	531.0	464.6	398.9	324.9	247.8	211.8	168.1	139.1	137.2
97.5°	556.9	505.1	492.4	431.1	366.6	297.7	223.1	190.3	148.6	123.9	120.1
100°	496.9	450.1	433.6	376.1	311.6	255.4	186.5	159.3	123.9	103.0	98.6
102.5°	376.1	338.2	321.1	280.7	221.2	182.7	135.3	117.6	91.0	77.8	75.2
105°	209.9	190.9	183.3	159.9	133.4	110.6	84.7	78.4	62.6	55.6	55.0
107.5°	140.3	129.0	123.3	111.9	93.6	78.4	61.3	57.5	47.4	42.4	41.7



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CATALOG NUMBER: MPN-A4-D-U-ASYM

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	113.8	105.6	100.5	91.0	77.1	64.5	51.2	48.0	39.8	36.0	35.4
112.5°	102.4	94.2	89.8	80.9	68.3	56.9	45.5	42.4	35.4	32.2	31.6
115°	94.8	87.9	82.8	74.6	62.6	51.8	41.7	38.6	32.9	29.1	28.4
117.5°	89.8	82.8	77.8	69.5	58.8	48.0	39.2	35.4	29.7	25.9	25.9
120°	85.3	79.0	74.0	65.7	55.0	44.9	36.0	31.6	26.5	22.8	22.8
122.5°	81.5	75.2	70.2	61.3	50.6	40.5	32.9	27.8	23.4	19.6	19.6
125°	77.1	71.4	65.7	56.9	46.1	36.7	29.1	24.0	19.6	16.4	16.4
127.5°	71.4	66.4	60.1	51.2	41.7	32.2	25.9	20.9	16.4	13.9	13.9
130°	65.1	59.4	53.1	44.9	36.0	27.8	21.5	17.7	13.9	12.0	11.4
132.5°	56.3	51.8	45.5	38.6	30.3	23.4	17.7	14.5	11.4	9.5	9.5
135°	47.4	43.0	37.9	31.0	24.7	18.3	13.9	11.4	9.5	7.6	7.6
137.5°	36.7	33.5	29.7	24.0	18.3	13.9	10.7	8.8	7.0	5.7	5.7
140°	27.8	25.9	22.8	17.7	13.9	10.7	8.2	7.0	5.7	4.4	3.8
142.5°	21.5	20.2	17.7	13.9	10.7	8.2	6.3	5.1	3.8	3.2	2.5
145°	16.4	15.2	13.3	10.1	7.6	5.7	4.4	3.2	2.5	1.9	1.3
147.5°	12.0	10.7	8.8	7.0	5.1	3.2	2.5	1.9	1.3	0.6	0.6
150°	6.3	5.7	5.1	3.8	2.5	1.3	0.6	0.6	0.0	0.0	0.0
152.5°	1.3	1.3	1.3	1.3	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	0.6	0.6	0.6	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	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6

(END OF REPORT)