

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: P314555

Luminaire Tested: **MPN-A5-D-U-SYM**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314555
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1906-378-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: MPN-A5-D-U-SYM
Description: NEW HAVEN POST TOP LUMINAIRE
(1) 70 CRI, 4000K LIGHT ENGINE. SYMMETRIC DISTRIBUTION.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4850 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.58')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B2 - U4 - G4

Input Watts (W): 50.6
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

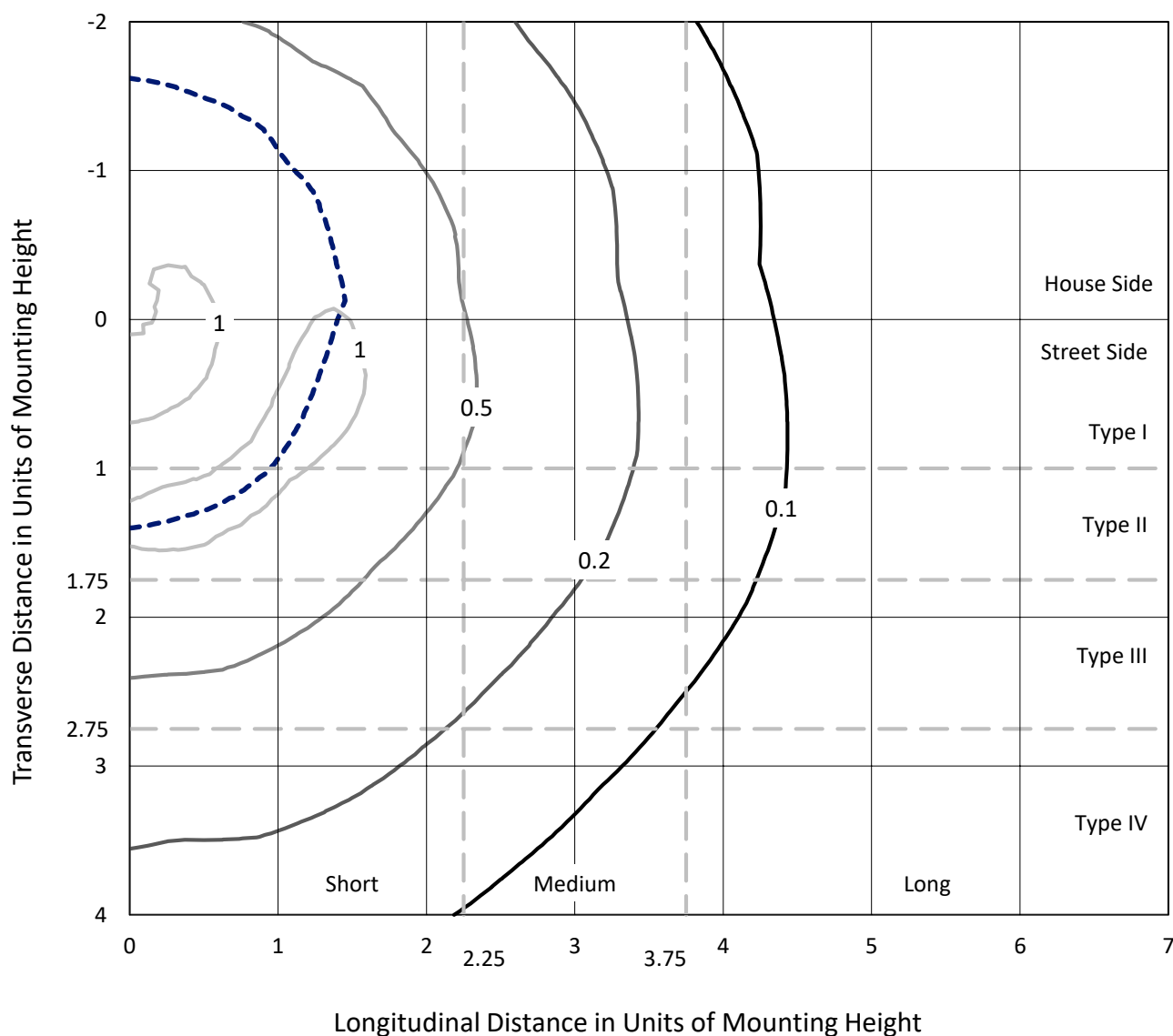


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

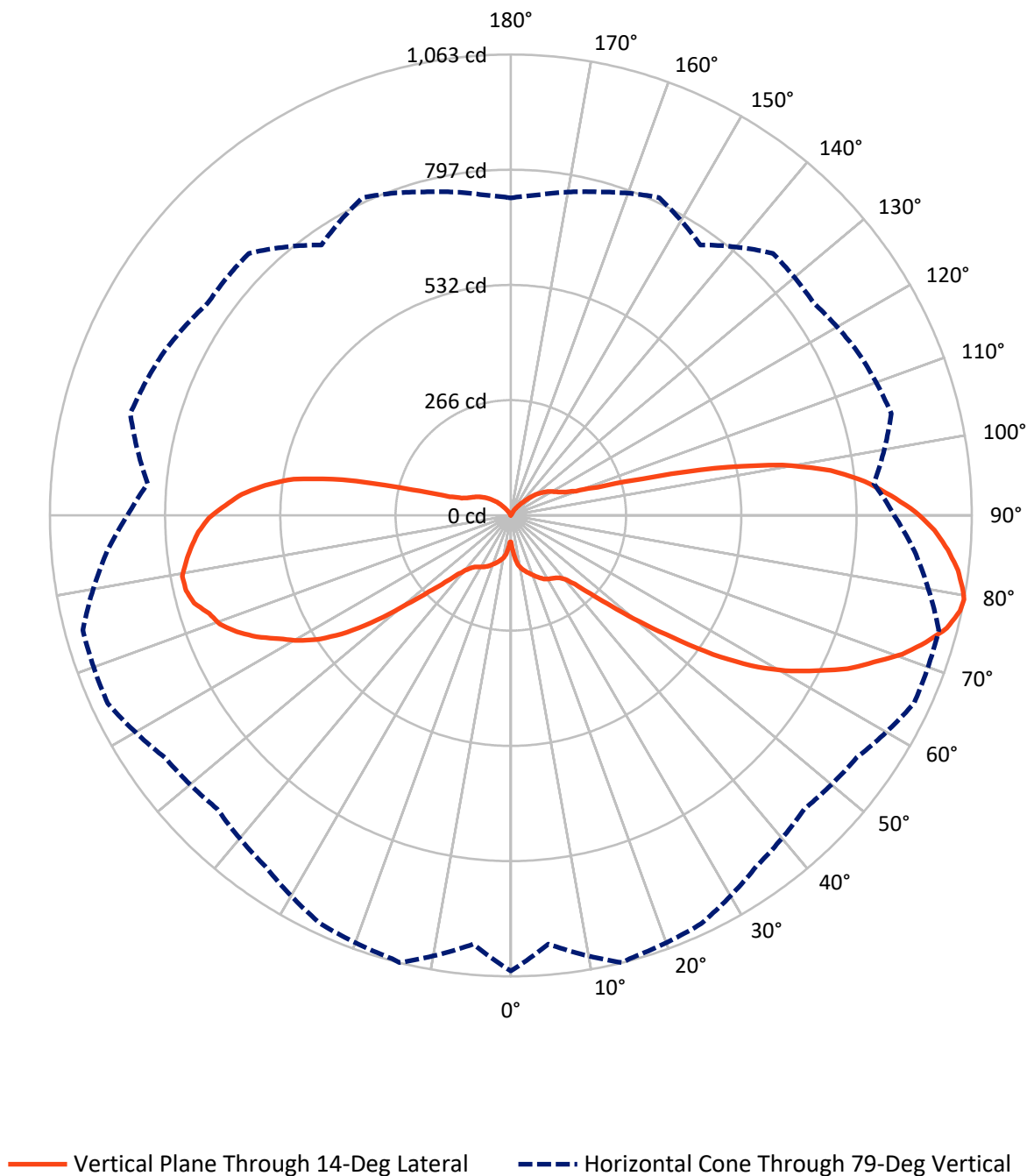


Based on 10 foot mounting height. Maximum calculated value = 1.2 fc
Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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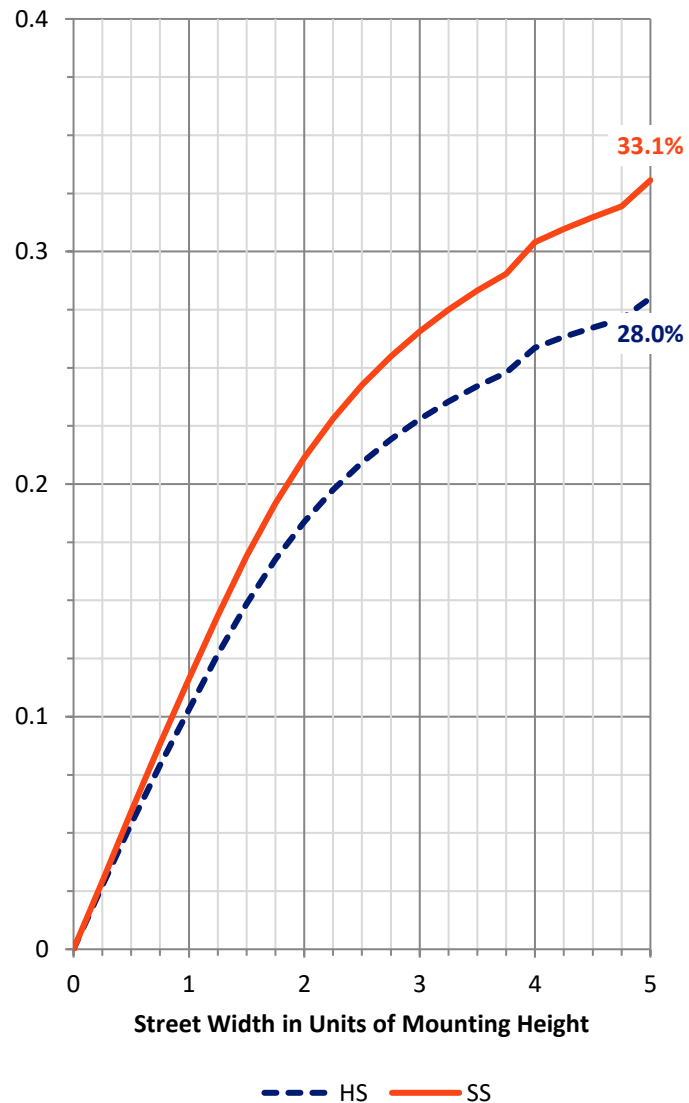
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1598.4	609.2	2207.6
	% Fixture	33.0	12.6	45.5
Street Side	Lumens	1912.1	730.3	2642.4
	% Fixture	39.4	15.1	54.5
Total	Lumens	3510.5	1339.5	4850.0
	% Fixture	72.4	27.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.0	0.2
10°-20°	34.8	0.7
20°-30°	67.8	1.4
30°-40°	103.2	2.1
40°-50°	194.7	4.0
50°-60°	470.0	9.7
60°-70°	748.1	15.4
70°-80°	938.3	19.3
80°-90°	944.5	19.5
90°-100°	774.4	16.0
100°-110°	327.1	6.7
110°-120°	113.2	2.3
120°-130°	75.5	1.6
130°-140°	37.6	0.8
140°-150°	11.0	0.2
150°-160°	0.6	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	3510.5	72.4
0°-180°	4850.0	100.0

Coefficient of Utilization



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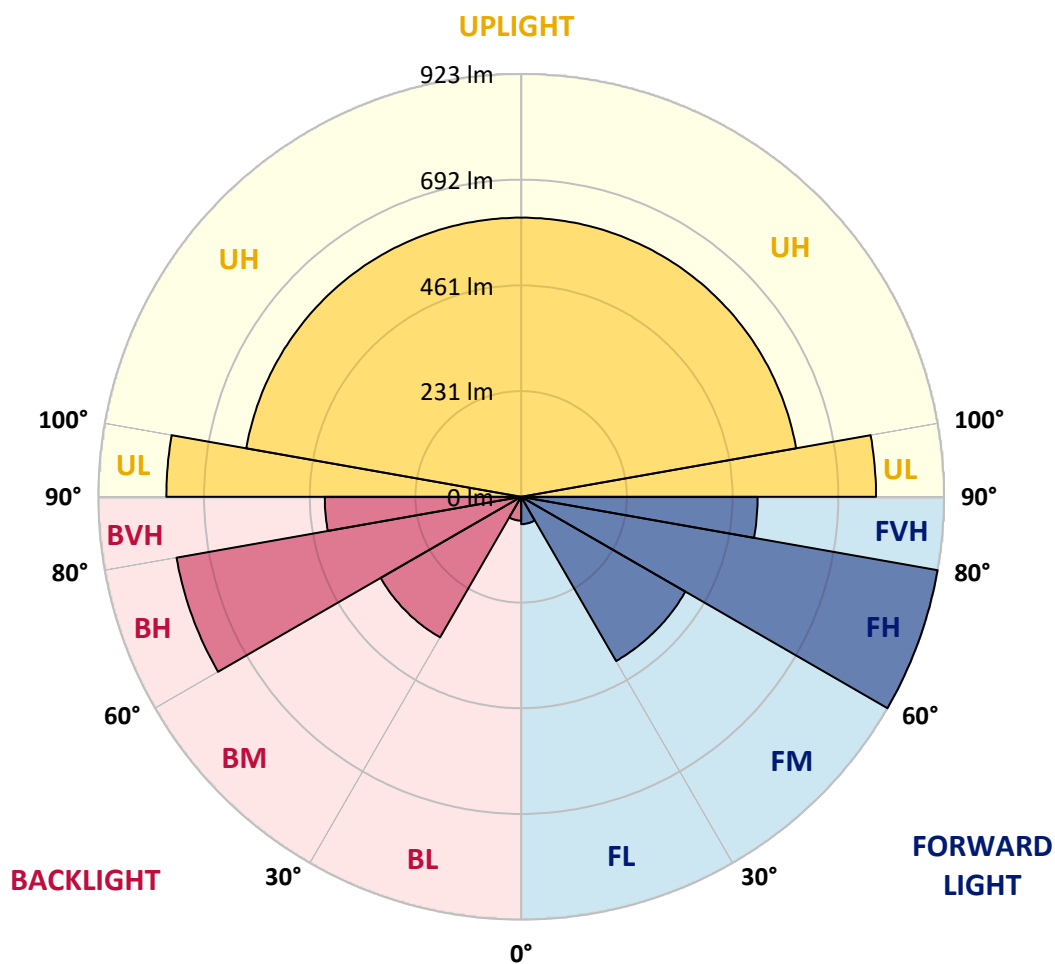
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	59.6	1.2			
FM	(30°-60°)	413.9	8.5			
FH	(60°-80°)	922.7	19.0			G1/1800
FVH	(80°-90°)	515.9	10.6			G4/750
BL	(0°-30°)	51.9	1.1	B0/110		
BM	(30°-60°)	354.1	7.3	B1/1000		
BH	(60°-80°)	763.8	15.7	B2/1000		G1/1800
BVH	(80°-90°)	428.6	8.8			G3/500
UL	(90°-100°)	774.4	16.0		U4/1000	
UH	(100°-180°)	609.2	12.6		U4/1000	

BUG Rating: B2-U4-G4

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
0°	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
2.5°	81.6	79.3	79.3	80.1	80.1	76.9	74.6	74.6	73.1	71.5	68.4
5°	99.5	97.9	97.9	97.9	97.9	98.7	96.4	94.8	91.7	90.2	87.8
7.5°	113.5	112.7	112.7	113.5	112.7	111.9	109.6	109.6	106.5	104.9	102.6
10°	123.6	122.8	122.8	122.8	121.2	119.7	118.1	117.4	115.0	112.7	110.4
12.5°	129.0	128.2	129.0	129.0	127.5	124.4	123.6	122.8	121.2	118.9	115.8
15°	135.2	134.5	135.2	135.2	132.9	131.3	129.8	129.0	127.5	125.9	122.8
17.5°	141.4	140.7	140.7	140.7	139.9	136.8	135.2	136.0	133.7	131.3	129.0
20°	148.4	147.7	146.9	146.9	146.1	143.0	142.2	141.4	139.9	137.6	135.2
22.5°	156.2	154.7	153.9	153.9	153.1	150.0	150.0	149.2	146.9	144.6	143.0
25°	164.0	163.2	160.1	160.1	159.3	157.0	157.8	156.2	153.9	150.8	150.0
27.5°	170.2	168.6	166.3	165.5	164.8	162.4	163.2	161.7	158.5	156.2	155.4
30°	174.1	173.3	170.2	170.2	167.9	167.1	167.1	164.8	161.7	159.3	160.1
32.5°	176.4	176.4	173.3	172.5	171.0	170.2	169.4	167.9	164.0	161.7	162.4
35°	180.3	179.5	177.2	176.4	174.1	174.1	172.5	170.2	165.5	164.8	165.5
37.5°	185.0	184.2	182.6	181.9	178.0	179.5	177.2	175.6	171.0	170.2	169.4
40°	195.9	195.9	193.5	193.5	188.9	192.7	190.4	191.2	186.5	185.7	182.6
42.5°	216.1	216.1	216.8	217.6	213.7	217.6	216.8	220.7	216.8	213.7	209.1
45°	255.7	252.6	257.2	255.7	253.4	257.2	255.7	261.1	259.6	255.7	251.0
47.5°	304.7	310.9	311.7	313.2	308.5	313.2	311.7	317.9	321.0	316.3	303.9
50°	372.3	378.5	385.5	385.5	381.6	383.2	382.4	391.7	395.6	396.4	379.3
52.5°	451.5	457.8	467.1	472.5	466.3	471.0	472.5	490.4	502.8	501.3	471.8
55°	544.8	554.1	565.8	568.9	558.0	561.1	562.7	585.2	610.1	607.0	568.9
57.5°	635.7	644.3	654.4	659.8	646.6	642.7	630.3	656.7	688.6	687.0	631.1
60°	710.3	716.6	727.4	732.9	719.7	711.9	685.5	713.5	750.0	752.3	687.0
62.5°	776.4	779.5	788.8	794.3	779.5	771.0	738.3	767.9	803.6	806.7	736.0
65°	834.7	830.0	853.4	854.9	833.9	820.7	789.6	821.5	855.7	858.0	778.0
67.5°	886.8	877.4	903.1	908.5	885.2	865.0	835.5	859.6	896.9	895.3	824.6
70°	933.4	921.0	958.3	961.4	930.3	903.1	886.0	900.0	942.0	942.7	865.0
72.5°	980.8	957.5	1001.0	1001.8	975.4	935.7	914.7	932.6	973.8	969.9	896.9
75°	1018.1	976.9	1039.1	1036.0	1011.9	963.7	943.5	957.5	1006.5	1004.9	918.6
77.5°	1053.9	994.8	1059.3	1057.0	1035.2	983.1	958.3	977.7	1024.3	1023.6	938.1
79°	1050.8	992.5	1063.2	1058.5	1039.1	987.8	957.5	973.8	1025.9	1022.0	934.2
80°	1047.6	985.5	1057.8	1053.9	1032.9	982.4	946.6	959.8	1011.9	1009.6	921.7
82.5°	1025.9	968.4	1039.1	1033.7	1015.8	969.9	935.7	948.2	1009.6	1001.8	910.1
85°	996.4	942.0	1011.1	1006.5	989.4	945.1	905.4	915.5	969.9	968.4	882.9
87.5°	958.3	908.5	977.7	973.0	957.5	917.1	877.4	889.1	944.3	943.5	853.4
90°	921.7	873.6	933.4	931.8	916.3	879.0	844.8	862.7	919.4	916.3	826.9
92.5°	866.6	823.0	877.4	878.2	863.5	832.4	800.5	815.3	859.6	858.8	776.4
95°	810.6	770.2	819.9	819.9	805.9	778.7	746.1	757.0	800.5	807.5	728.2
97.5°	736.8	701.0	745.3	746.9	736.0	712.7	684.7	698.7	740.7	747.7	675.4
100°	622.5	598.4	637.3	641.2	632.6	618.6	599.2	619.4	655.9	663.7	600.8
102.5°	455.4	448.4	482.6	481.1	478.0	474.1	469.4	480.3	504.4	516.1	451.5
105°	309.3	297.7	315.5	314.8	308.5	298.4	286.8	286.0	292.2	287.6	255.7
107.5°	208.3	203.6	210.6	211.4	206.7	198.2	187.3	186.5	192.0	188.9	171.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	158.5	156.2	160.1	160.9	158.5	151.6	146.1	146.1	151.6	149.2	138.3
112.5°	137.6	136.0	138.3	138.3	136.8	129.8	126.7	129.0	133.7	132.9	123.6
115°	125.1	124.4	125.1	125.9	123.6	117.4	115.8	118.1	122.8	122.0	114.2
117.5°	116.6	115.8	115.8	116.6	114.2	108.8	108.0	110.4	115.0	114.2	107.3
120°	108.8	108.8	108.8	108.8	107.3	102.6	101.8	104.9	108.8	108.0	101.8
122.5°	101.0	101.0	101.0	101.0	99.5	96.4	96.4	99.5	102.6	101.8	96.4
125°	92.5	92.5	91.7	92.5	90.9	89.4	89.4	92.5	94.8	94.8	90.2
127.5°	83.9	83.9	82.4	83.2	81.6	80.8	81.6	84.7	87.0	87.0	83.9
130°	74.6	73.8	72.3	73.1	71.5	71.5	73.1	76.2	77.7	78.5	75.4
132.5°	63.7	63.0	61.4	61.4	61.4	61.4	63.0	65.3	67.6	67.6	66.1
135°	52.8	52.1	50.5	50.5	50.5	49.7	52.1	54.4	56.0	56.0	54.4
137.5°	41.2	41.2	39.6	40.4	39.6	38.9	40.4	42.0	42.7	43.5	42.0
140°	32.6	32.6	31.9	31.1	30.3	29.5	30.3	31.1	31.9	32.6	31.9
142.5°	25.6	25.6	24.9	24.9	24.1	23.3	23.3	24.1	25.6	25.6	24.9
145°	19.4	19.4	19.4	18.7	17.9	17.9	17.9	18.7	19.4	19.4	19.4
147.5°	14.0	13.2	13.2	13.2	12.4	12.4	13.2	13.2	14.0	14.0	14.0
150°	7.0	7.0	7.0	7.0	7.0	7.0	7.8	7.8	8.5	8.5	7.8
152.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6
155°	0.0	0.0	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.8	0.8	0.0	0.0	0.0	0.0	0.8	0.0	0.0
165°	0.0	0.0	0.8	0.8	0.8	0.0	0.0	0.0	0.8	0.8	0.0
167.5°	0.8	0.0	0.8	0.8	0.8	0.0	0.8	0.0	0.8	0.8	0.0
170°	0.0	0.0	0.8	0.8	0.8	0.0	0.0	0.0	0.8	0.0	0.0
172.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.8	0.8	0.0
175°	0.0	0.0	0.8	0.8	0.8	0.0	0.0	0.0	0.8	0.8	0.0
177.5°	0.8	0.0	0.8	0.8	0.8	0.8	0.8	0.0	0.8	0.8	0.0
180°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
2.5°	67.6	66.8	65.3	66.1	63.7	63.0	62.2	61.4	61.4	61.4	60.6
5°	86.3	84.7	80.8	79.3	79.3	77.7	77.7	76.9	76.9	76.9	76.9
7.5°	101.0	100.3	96.4	93.3	91.7	90.9	90.9	90.2	90.2	89.4	88.6
10°	108.8	107.3	104.9	103.4	101.8	100.3	98.7	99.5	98.7	97.1	97.1
12.5°	115.0	113.5	111.1	109.6	108.0	105.7	104.9	104.9	104.1	101.8	101.8
15°	121.2	119.7	118.1	115.8	114.2	111.9	110.4	110.4	109.6	107.3	106.5
17.5°	127.5	126.7	124.4	122.0	120.5	118.1	115.8	115.0	114.2	112.7	111.9
20°	134.5	132.9	130.6	128.2	125.9	124.4	122.0	119.7	118.9	118.1	117.4
22.5°	142.2	139.9	137.6	134.5	132.1	131.3	127.5	125.1	124.4	122.8	122.8
25°	149.2	146.1	143.8	141.4	138.3	137.6	133.7	130.6	129.0	128.2	128.2
27.5°	154.7	151.6	149.2	146.9	143.8	143.0	138.3	135.2	132.9	132.9	133.7
30°	158.5	156.2	153.9	150.8	149.2	148.4	143.0	139.1	136.8	137.6	137.6
32.5°	161.7	159.3	157.0	153.9	152.3	151.6	146.9	142.2	139.9	140.7	140.7
35°	164.0	162.4	160.1	157.0	156.2	154.7	150.0	145.3	143.8	145.3	144.6
37.5°	168.6	166.3	164.0	160.1	161.7	159.3	155.4	150.8	150.8	153.1	152.3
40°	180.3	177.2	174.1	169.4	170.2	169.4	167.1	163.2	163.2	166.3	165.5
42.5°	204.4	199.7	194.3	188.1	188.1	186.5	183.4	181.9	182.6	185.0	185.0
45°	240.9	232.4	228.5	220.7	219.2	217.6	214.5	211.4	216.1	215.3	216.8
47.5°	293.0	281.3	276.7	266.6	265.0	264.2	259.6	256.5	258.0	259.6	263.5
50°	363.7	346.6	341.2	331.1	328.8	325.6	316.3	312.4	315.5	317.9	321.0
52.5°	456.2	426.7	425.1	415.8	402.6	408.0	395.6	389.4	391.7	390.9	394.8
55°	547.9	513.7	517.6	505.2	487.3	493.5	469.4	468.6	464.8	461.6	463.2
57.5°	611.6	578.2	593.8	578.2	555.7	561.9	530.0	526.2	524.6	515.3	512.2
60°	660.6	626.4	649.7	628.0	603.1	619.4	574.3	577.5	569.7	559.6	552.6
62.5°	704.1	669.2	697.1	672.3	645.1	662.2	611.6	621.8	606.2	597.7	585.2
65°	745.3	712.7	741.4	718.9	682.4	706.5	649.0	667.6	651.3	635.7	624.1
67.5°	785.0	753.1	786.5	764.0	724.3	747.7	677.7	705.7	688.6	671.5	657.5
70°	818.4	785.0	823.8	802.8	760.1	775.6	692.5	742.2	718.1	702.6	683.1
72.5°	849.5	810.6	858.8	839.4	794.3	807.5	714.2	771.0	732.9	718.1	704.1
75°	869.7	826.9	887.5	865.0	828.5	835.5	740.7	793.5	760.1	736.0	725.1
77.5°	888.3	841.7	905.4	879.0	845.6	849.5	757.8	809.1	771.7	744.5	730.6
79°	884.4	840.9	908.5	885.2	853.4	854.9	761.6	809.1	772.5	742.2	732.1
80°	875.1	833.9	900.8	874.3	842.5	844.8	757.8	802.8	774.9	733.7	724.3
82.5°	865.0	822.3	889.1	865.0	833.1	830.8	752.3	793.5	759.3	725.9	715.8
85°	838.6	801.3	864.2	840.1	813.7	809.8	735.2	773.3	743.8	701.8	693.3
87.5°	813.7	777.2	840.9	817.6	792.0	788.8	721.2	759.3	725.9	680.8	676.2
90°	786.5	749.2	809.1	785.7	757.0	751.5	690.1	728.2	701.0	657.5	652.8
92.5°	737.6	704.1	760.9	740.7	716.6	712.7	653.6	688.6	662.9	624.1	619.4
95°	693.3	661.4	711.9	694.8	672.3	671.5	613.2	650.5	625.6	590.7	588.3
97.5°	645.1	614.0	657.5	642.0	619.4	617.1	562.7	596.1	574.3	542.5	540.1
100°	568.9	542.5	571.2	559.6	533.2	540.1	492.0	527.7	510.6	482.6	477.2
102.5°	426.7	405.7	415.0	405.7	382.4	392.5	367.6	405.7	398.7	383.2	378.5
105°	241.7	235.5	241.7	238.6	230.0	227.7	215.3	240.9	235.5	230.0	226.9
107.5°	163.2	158.5	164.0	161.7	151.6	150.8	141.4	153.1	147.7	143.0	140.7



REPORT NUMBER: P314555

CATALOG NUMBER: MPN-A5-D-U-SYM

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	132.9	129.0	132.9	132.1	125.1	122.8	115.8	123.6	119.7	115.8	114.2
112.5°	118.9	115.8	118.9	118.1	111.1	110.4	104.9	111.1	108.0	104.9	104.1
115°	110.4	107.3	109.6	108.8	102.6	101.8	97.1	102.6	100.3	97.1	96.4
117.5°	104.1	101.0	102.6	101.0	96.4	94.8	90.9	95.6	94.0	90.2	89.4
120°	98.7	95.6	97.1	94.8	90.2	88.6	85.5	88.6	87.0	84.7	83.9
122.5°	94.0	90.9	91.7	88.6	83.9	81.6	79.3	80.8	80.1	77.7	76.9
125°	87.8	84.7	84.7	81.6	76.2	74.6	72.3	73.1	72.3	71.5	70.7
127.5°	80.8	78.5	76.9	73.8	69.2	66.1	64.5	65.3	65.3	64.5	63.7
130°	73.1	70.7	67.6	64.5	60.6	58.3	56.0	57.5	57.5	57.5	57.5
132.5°	63.7	61.4	58.3	55.2	51.3	49.7	47.4	49.0	49.7	50.5	49.7
135°	52.8	51.3	48.2	45.1	42.0	39.6	38.9	40.4	42.0	42.0	41.2
137.5°	41.2	39.6	38.1	35.8	32.6	31.1	30.3	31.9	33.4	33.4	32.6
140°	31.1	31.1	29.5	27.2	24.1	23.3	23.3	24.1	24.9	24.9	24.1
142.5°	24.1	24.1	22.5	21.0	18.7	17.9	17.9	18.7	19.4	19.4	18.7
145°	18.7	18.7	17.1	15.5	14.0	13.2	13.2	14.0	14.8	14.8	14.0
147.5°	14.0	13.2	11.7	10.9	9.3	9.3	9.3	9.3	10.1	10.1	10.1
150°	7.8	7.8	7.0	5.4	4.7	4.7	4.7	5.4	6.2	6.2	5.4
152.5°	1.6	1.6	1.6	1.6	0.8	0.0	0.8	0.8	0.8	0.8	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	0.8	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.0	0.0
167.5°	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.8	0.8	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.0	0.0
172.5°	0.0	0.0	0.8	0.8	0.0	0.0	0.0	0.8	0.8	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.0	0.0
177.5°	0.0	0.0	0.8	0.8	0.0	0.8	0.0	0.8	0.8	0.0	0.0
180°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8

(END OF REPORT)