

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: P314561

Luminaire Tested: **MPN-A5-D-U-ASYM-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314561
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-A5-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: 4360 lumens
Efficiency: N/A
Efficacy: 85.2 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): 51.2
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



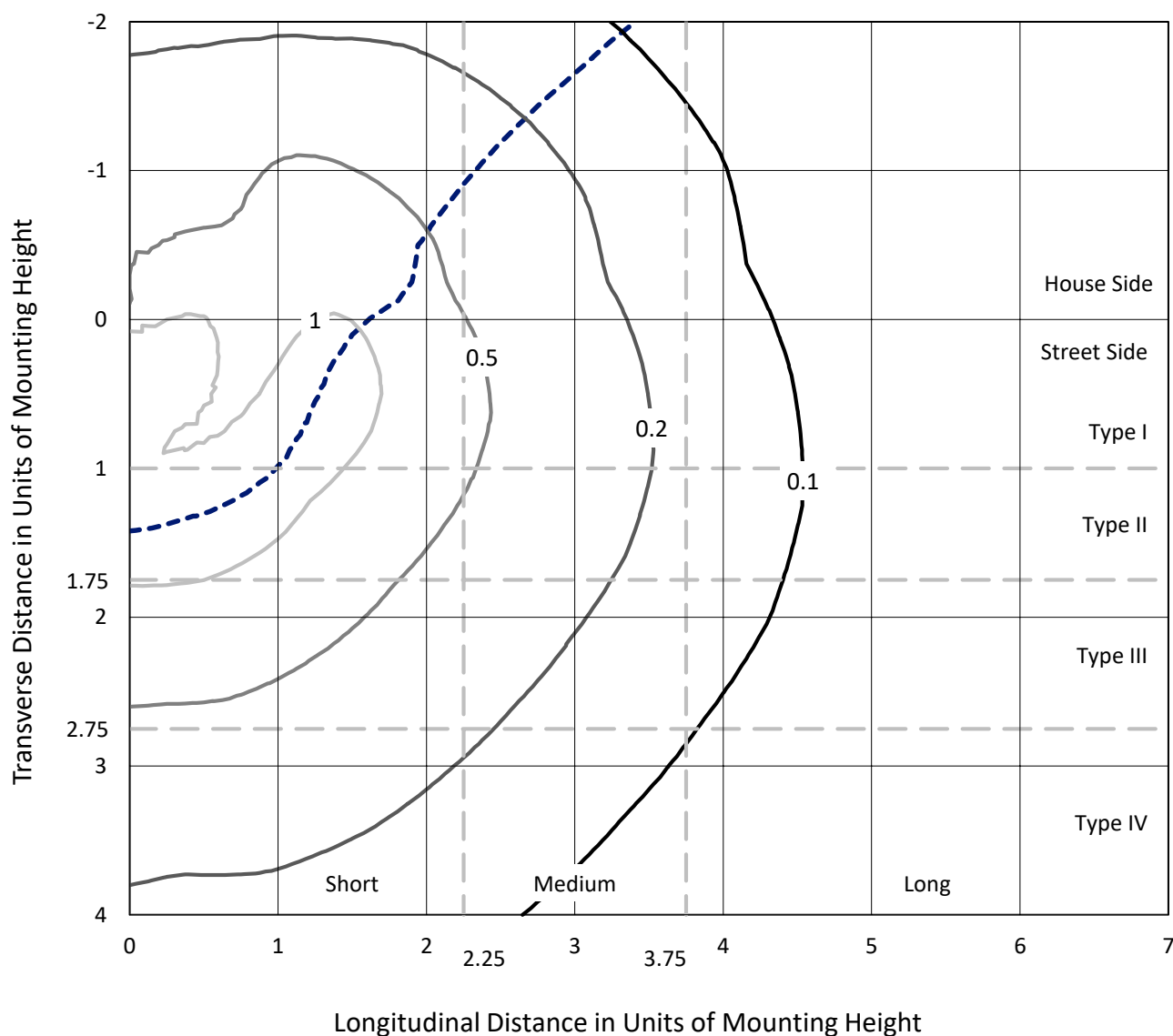
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

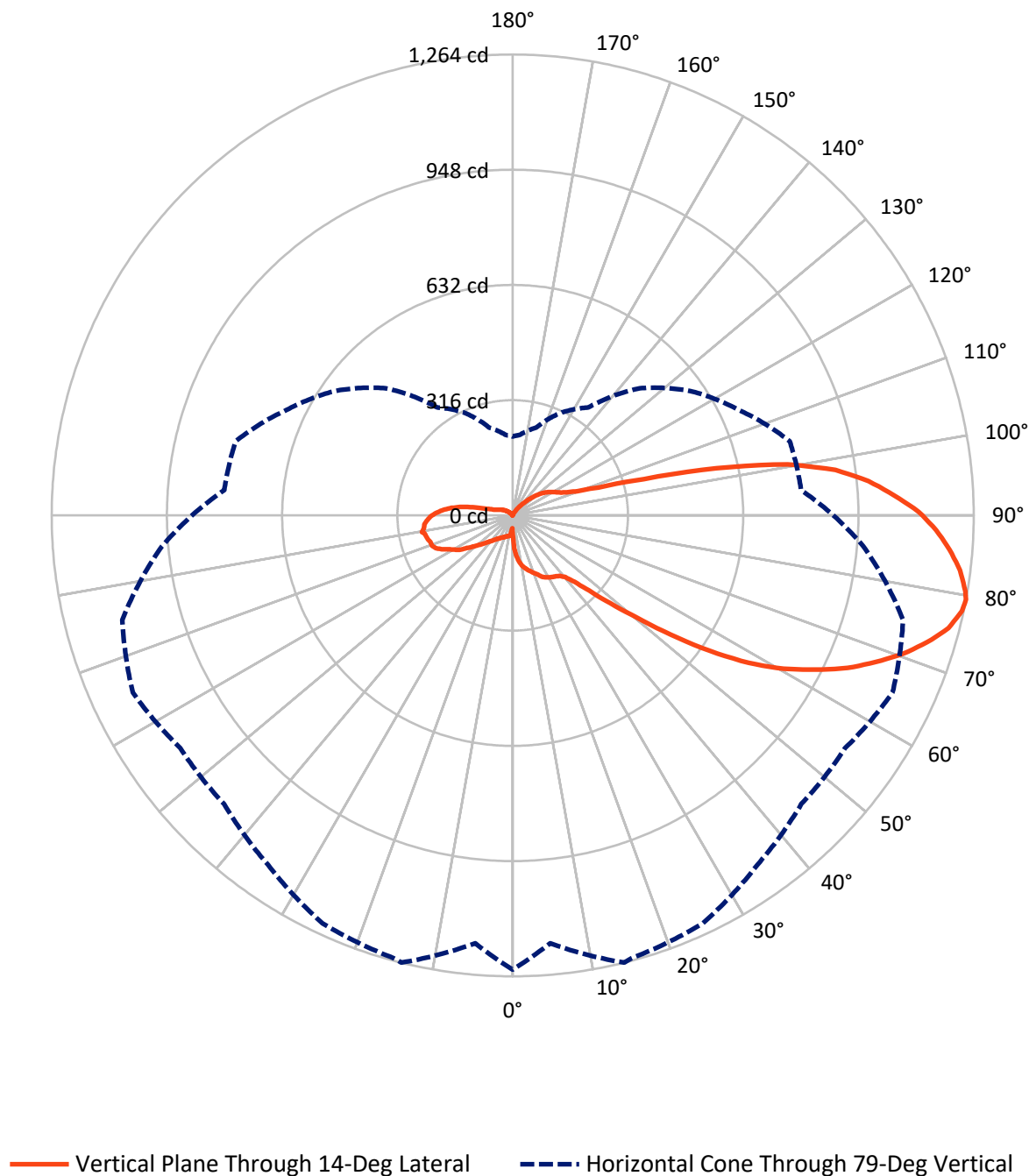


Based on 10 foot mounting height. Maximum calculated value = 1.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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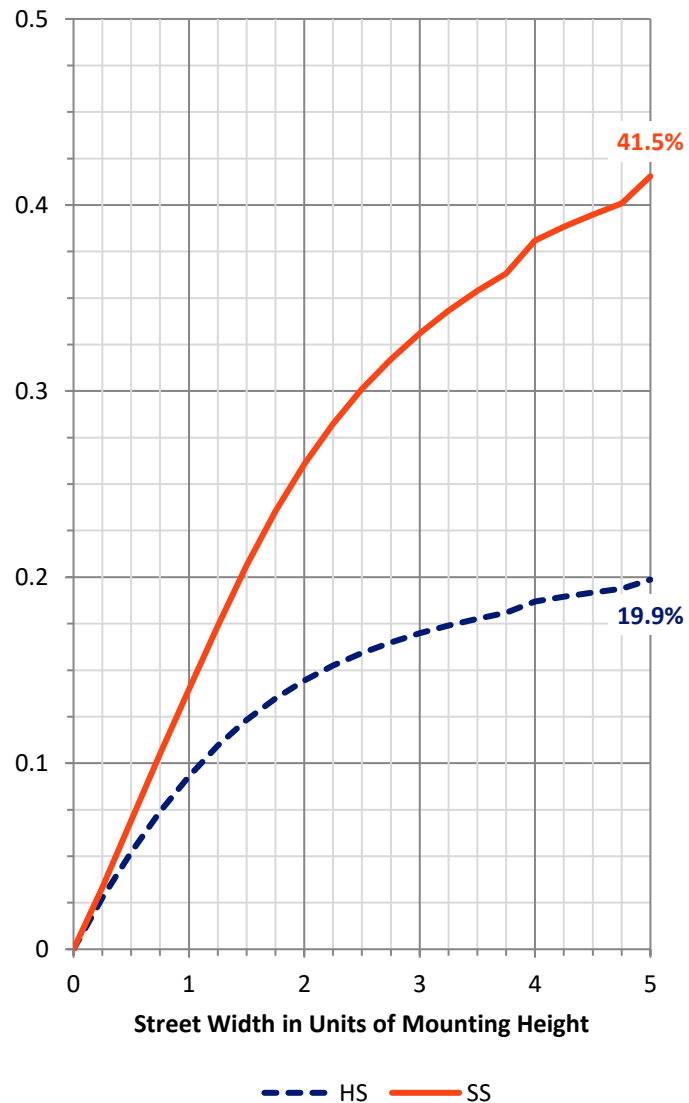
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	986.3	365.1	1351.5
	% Fixture	22.6	8.4	31.0
Street Side	Lumens	2172.2	836.3	3008.5
	% Fixture	49.8	19.2	69.0
Total	Lumens	3158.6	1201.4	4360.0
	% Fixture	72.4	27.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.1	0.2
10°-20°	31.3	0.7
20°-30°	61.1	1.4
30°-40°	93.1	2.1
40°-50°	174.8	4.0
50°-60°	420.5	9.6
60°-70°	673.4	15.4
70°-80°	845.4	19.4
80°-90°	850.9	19.5
90°-100°	694.6	15.9
100°-110°	293.8	6.7
110°-120°	101.6	2.3
120°-130°	67.7	1.6
130°-140°	33.5	0.8
140°-150°	9.6	0.2
150°-160°	0.5	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	3158.6	72.4
0°-180°	4360.0	100.0

Coefficient of Utilization



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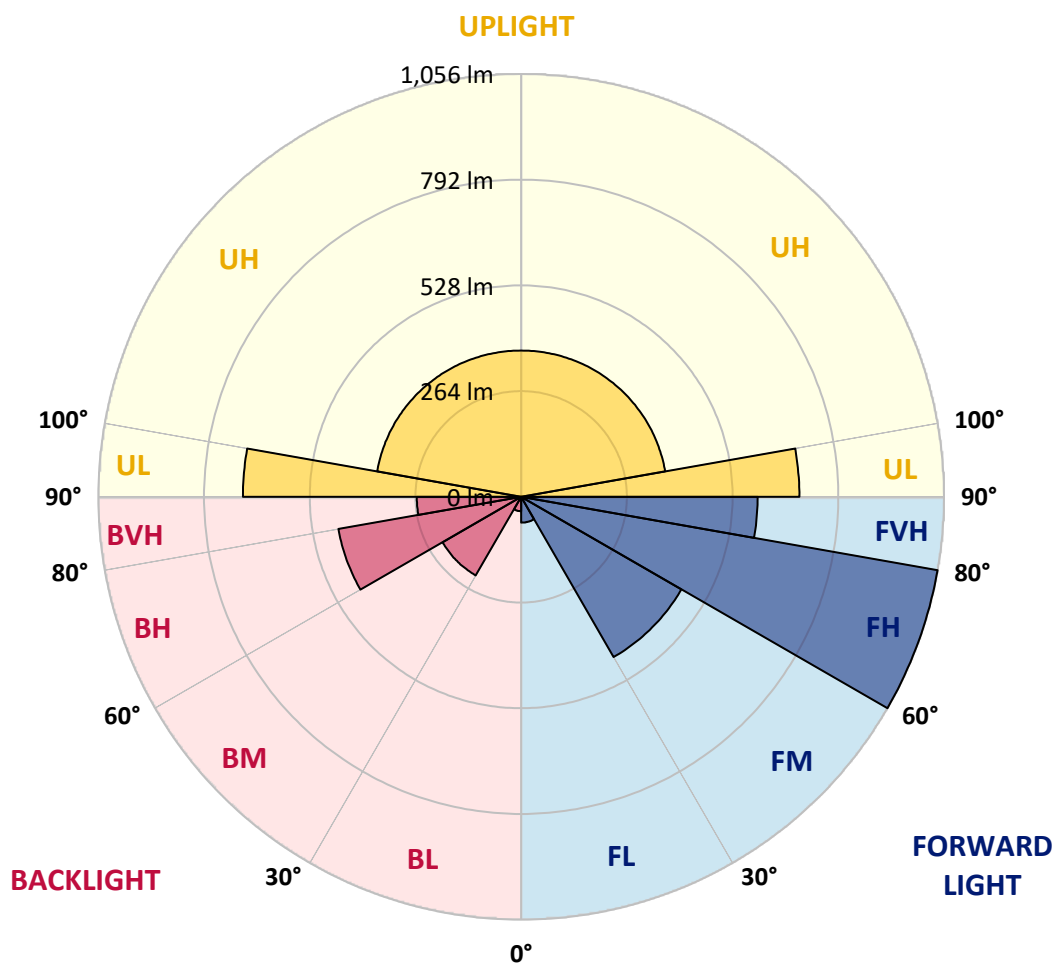
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	64.5	1.5			
FM	(30°-60°)	461.8	10.6			
FH	(60°-80°)	1055.5	24.2			G1/1800
FVH	(80°-90°)	590.4	13.5			G4/750
BL	(0°-30°)	35.9	0.8	B0/110		
BM	(30°-60°)	226.7	5.2	B1/1000		
BH	(60°-80°)	463.2	10.6	B1/500		G1/500
BVH	(80°-90°)	260.5	6.0			G3/500
UL	(90°-100°)	694.6	15.9		U4/1000	
UH	(100°-180°)	365.1	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°	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6
2.5°	95.1	92.2	92.2	92.2	90.0	86.3	82.7	80.5	75.4	71.0	64.4
5°	115.6	114.1	112.7	112.7	110.5	109.7	106.1	100.2	94.4	88.5	81.2
7.5°	131.0	129.5	128.0	128.8	125.8	122.9	119.3	114.1	108.3	102.4	95.1
10°	141.2	140.5	139.7	139.7	136.1	132.4	128.0	123.6	117.1	110.5	102.4
12.5°	148.5	147.8	147.8	147.8	144.1	139.0	135.4	130.2	124.4	117.1	109.0
15°	155.8	155.8	155.1	154.4	150.7	146.3	142.7	138.3	132.4	124.4	116.3
17.5°	163.2	162.4	161.7	161.7	158.0	153.6	150.0	146.3	139.0	131.0	122.9
20°	171.9	170.5	169.0	169.0	165.4	160.2	157.3	153.6	146.3	138.3	129.5
22.5°	180.7	179.3	176.3	176.3	173.4	167.5	166.1	161.7	154.4	145.6	136.8
25°	190.2	189.5	186.6	185.8	182.2	174.9	173.4	169.7	161.7	152.9	144.1
27.5°	197.5	196.8	192.4	192.4	189.5	182.9	179.3	174.9	166.8	157.3	150.0
30°	202.7	201.9	197.5	196.8	193.2	188.8	184.4	177.8	169.7	160.2	153.6
32.5°	204.9	204.9	201.2	200.5	196.1	192.4	188.0	181.4	171.2	162.4	155.1
35°	209.3	208.5	204.9	204.1	199.0	196.1	190.2	182.2	172.7	163.9	156.6
37.5°	213.6	213.6	210.7	210.0	204.1	201.2	195.3	188.0	177.8	169.0	161.0
40°	223.9	224.6	222.4	221.7	215.8	214.4	209.3	204.1	196.8	188.0	174.1
42.5°	247.3	248.0	248.8	247.3	242.9	240.7	236.3	235.6	229.0	218.0	204.9
45°	287.5	291.9	294.1	291.9	286.1	285.3	281.7	283.1	278.0	267.1	250.2
47.5°	349.0	351.9	360.0	360.0	351.9	349.7	346.8	347.5	347.5	335.1	309.5
50°	426.5	432.4	438.3	442.6	439.0	433.1	429.5	436.8	442.6	425.1	390.7
52.5°	520.9	526.8	544.3	542.9	538.5	535.6	537.8	551.7	564.8	549.5	494.6
55°	631.4	639.5	655.6	659.2	650.4	646.8	644.6	665.1	687.0	670.9	597.0
57.5°	741.9	749.9	763.8	769.7	758.0	746.3	725.1	747.7	774.8	754.3	665.1
60°	834.1	838.5	853.8	860.4	848.0	831.1	792.4	815.1	845.1	823.1	722.9
62.5°	917.5	918.9	931.4	937.2	922.6	905.0	859.0	878.7	903.6	882.4	773.3
65°	983.3	982.6	1008.9	1011.1	988.5	964.3	920.4	938.7	958.5	935.8	815.1
67.5°	1049.9	1041.9	1073.3	1075.5	1052.8	1021.4	976.7	986.3	998.7	981.9	861.1
70°	1104.8	1094.5	1136.2	1139.9	1106.2	1064.5	1028.7	1034.5	1052.8	1026.5	899.2
72.5°	1161.9	1137.0	1188.9	1191.1	1160.4	1105.5	1069.7	1068.2	1089.4	1060.2	927.7
75°	1207.9	1159.7	1234.3	1231.4	1202.8	1141.4	1101.9	1098.9	1126.7	1091.6	948.9
77.5°	1250.4	1180.9	1259.9	1257.0	1230.6	1163.3	1119.4	1116.5	1146.5	1109.2	968.0
79°	1246.0	1178.0	1264.3	1257.7	1234.3	1169.9	1119.4	1112.8	1149.4	1108.4	965.0
80°	1246.7	1169.2	1258.4	1252.6	1227.0	1163.3	1107.7	1097.5	1130.4	1090.2	951.1
82.5°	1217.5	1148.7	1235.8	1227.0	1207.2	1148.7	1093.1	1085.0	1128.9	1084.3	945.3
85°	1186.7	1117.2	1202.1	1196.2	1178.0	1120.2	1063.1	1043.3	1082.1	1038.2	912.4
87.5°	1138.4	1077.7	1161.9	1157.5	1139.9	1088.7	1028.7	1014.8	1055.8	1016.3	889.7
90°	1096.7	1036.7	1113.6	1109.2	1093.1	1043.3	988.5	986.3	1028.0	988.5	861.1
92.5°	1033.1	976.7	1047.7	1042.6	1030.9	988.5	938.0	931.4	965.8	921.9	806.3
95°	969.4	915.3	980.4	978.2	962.8	926.3	878.0	865.5	899.9	867.7	759.4
97.5°	885.3	834.1	894.1	893.3	882.4	848.0	807.0	801.9	837.7	804.8	707.5
100°	755.1	710.4	767.5	760.9	762.4	734.6	700.9	711.2	747.0	723.6	635.8
102.5°	561.2	539.2	573.6	576.5	578.7	559.7	547.3	545.8	580.2	559.0	488.7
105°	365.8	355.6	373.1	376.1	371.7	357.8	324.1	327.0	330.7	313.1	272.2
107.5°	244.4	240.0	247.3	248.8	245.1	233.4	213.6	211.4	212.9	203.4	178.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	187.3	185.1	189.5	190.2	187.3	176.3	165.4	164.6	166.1	159.5	142.7
112.5°	160.2	158.8	161.0	161.0	158.8	150.7	144.1	144.1	146.3	141.2	127.3
115°	146.3	144.9	145.6	146.3	143.4	136.1	131.0	132.4	134.6	130.2	117.8
117.5°	136.1	135.4	135.4	135.4	133.2	126.6	123.6	124.4	126.6	122.2	111.2
120°	127.3	127.3	126.6	126.6	124.4	119.3	117.1	118.5	120.0	116.3	106.1
122.5°	118.5	118.5	117.8	117.8	116.3	111.9	110.5	112.7	114.1	109.7	101.0
125°	109.0	109.0	107.6	107.6	106.1	103.9	103.2	105.4	106.8	103.2	94.4
127.5°	98.8	98.8	96.6	97.3	95.1	94.4	94.4	97.3	98.8	95.8	87.8
130°	87.8	87.1	84.1	84.9	83.4	83.4	84.9	87.1	88.5	85.6	79.0
132.5°	74.6	74.6	71.0	71.7	71.0	71.7	73.2	75.4	76.1	74.6	68.8
135°	61.5	61.5	58.5	59.3	58.5	58.5	60.7	62.2	63.7	62.2	57.1
137.5°	49.0	49.0	46.1	46.8	46.1	45.4	46.8	47.6	48.3	46.8	44.6
140°	38.0	38.0	36.6	36.6	35.1	34.4	35.1	35.9	35.9	35.1	33.7
142.5°	30.0	30.7	29.3	29.3	27.1	27.1	27.1	27.8	27.8	27.8	26.3
145°	22.7	23.4	21.9	21.9	20.5	20.5	20.5	21.2	21.2	21.2	19.8
147.5°	16.1	16.1	15.4	15.4	13.9	14.6	14.6	15.4	15.4	14.6	13.9
150°	8.0	8.0	8.0	8.0	8.0	8.0	8.8	8.8	8.8	8.8	8.0
152.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.5
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	0.7	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.0	0.0
165°	0.0	0.0	0.0	0.7	0.0	0.7	0.7	0.7	0.7	0.0	0.0
167.5°	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0
170°	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0
172.5°	0.7	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0
175°	0.7	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
177.5°	0.7	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0
180°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6
2.5°	62.2	59.3	54.9	50.5	45.4	41.7	38.0	36.6	35.1	33.7	33.7
5°	76.8	73.2	67.3	60.7	57.1	51.9	49.0	46.1	44.6	44.6	44.6
7.5°	92.2	88.5	80.5	71.7	67.3	61.5	59.3	56.3	54.1	51.9	51.2
10°	98.8	95.1	87.8	80.5	74.6	68.8	63.7	60.7	57.1	54.9	54.9
12.5°	105.4	101.0	93.7	86.3	79.0	71.7	66.6	62.2	58.5	55.6	54.9
15°	111.9	107.6	99.5	91.5	82.7	74.6	68.8	63.7	59.3	56.3	55.6
17.5°	118.5	114.1	105.4	96.6	87.1	78.3	71.7	65.1	60.7	57.8	57.1
20°	125.1	120.0	111.2	101.7	91.5	82.7	73.9	67.3	62.9	60.0	59.3
22.5°	132.4	126.6	117.1	106.8	95.8	87.1	76.8	69.5	64.4	62.2	62.2
25°	139.7	132.4	122.9	111.2	101.0	91.5	79.7	71.7	66.6	65.1	65.8
27.5°	144.9	136.8	127.3	115.6	104.6	95.1	83.4	73.9	68.8	68.8	68.8
30°	147.8	141.2	131.0	119.3	109.0	98.8	86.3	76.8	71.7	71.7	71.7
32.5°	149.3	142.7	132.4	121.5	111.9	102.4	89.3	79.7	74.6	75.4	75.4
35°	150.7	144.9	134.6	123.6	114.9	104.6	92.9	83.4	79.0	79.7	79.0
37.5°	154.4	147.8	137.5	126.6	118.5	108.3	97.3	87.8	84.1	84.9	84.1
40°	166.1	158.0	147.1	133.9	125.8	114.1	103.2	92.9	90.7	90.7	90.0
42.5°	190.2	179.3	166.1	150.0	138.3	123.6	111.2	100.2	97.3	96.6	95.8
45°	231.2	213.6	199.7	176.3	158.0	139.0	122.9	109.0	105.4	103.9	103.2
47.5°	283.9	263.4	245.1	219.5	191.0	161.7	140.5	121.5	115.6	112.7	111.2
50°	360.7	326.3	302.2	270.7	234.1	193.2	162.4	137.5	127.3	120.7	119.3
52.5°	452.9	407.5	381.9	337.3	286.8	231.9	190.2	154.4	139.7	131.0	130.2
55°	548.0	490.9	460.9	410.5	342.4	278.0	222.4	175.6	155.1	143.4	141.9
57.5°	611.7	549.5	520.2	466.8	389.2	320.5	252.4	195.3	175.6	157.3	155.8
60°	659.9	593.4	566.3	501.9	421.4	353.4	273.6	214.4	186.6	169.0	166.1
62.5°	701.6	629.9	608.7	531.9	450.7	376.8	291.2	231.2	199.0	183.6	178.5
65°	743.4	670.2	644.6	565.6	474.1	400.2	308.0	251.0	218.0	196.1	196.1
67.5°	782.9	708.2	681.2	597.8	503.4	422.9	319.7	267.1	231.2	209.3	209.3
70°	818.7	736.0	714.8	627.0	531.9	441.2	319.0	282.4	238.5	218.8	210.0
72.5°	848.7	761.6	741.2	652.6	554.6	460.9	327.0	297.8	238.5	221.7	216.6
75°	864.8	779.9	766.8	668.0	579.5	477.0	340.2	299.2	244.4	221.0	217.3
77.5°	883.8	796.0	782.9	681.2	590.4	489.5	354.1	309.5	247.3	222.4	215.8
79°	879.4	793.8	786.5	684.1	594.8	493.1	361.4	310.2	249.5	221.7	216.6
80°	869.2	788.0	776.3	672.4	589.7	487.3	361.4	310.2	256.8	220.2	214.4
82.5°	860.4	780.7	770.4	668.7	580.9	477.0	362.2	309.5	248.8	215.8	210.7
85°	834.1	759.4	744.1	647.5	567.8	465.3	357.0	305.8	247.3	205.6	202.7
87.5°	808.5	736.0	725.1	629.2	549.5	450.7	350.5	297.0	237.8	198.3	196.1
90°	782.9	711.2	698.0	607.3	526.8	427.3	332.9	284.6	228.3	185.1	185.8
92.5°	733.8	669.5	655.6	571.4	493.9	401.7	312.4	265.6	212.9	175.6	171.9
95°	689.2	628.5	614.6	537.8	461.7	376.1	286.8	245.1	194.6	161.0	158.8
97.5°	644.6	584.6	570.0	499.0	424.4	344.6	258.3	220.2	171.9	143.4	139.0
100°	575.1	520.9	501.9	435.3	360.7	295.6	215.8	184.4	143.4	119.3	114.1
102.5°	435.3	391.4	371.7	324.9	256.1	211.4	156.6	136.1	105.4	90.0	87.1
105°	242.9	221.0	212.2	185.1	154.4	128.0	98.0	90.7	72.4	64.4	63.7
107.5°	162.4	149.3	142.7	129.5	108.3	90.7	71.0	66.6	54.9	49.0	48.3



REPORT NUMBER: P314561

CATALOG NUMBER: MPN-A5-D-U-ASYM-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	131.7	122.2	116.3	105.4	89.3	74.6	59.3	55.6	46.1	41.7	41.0
112.5°	118.5	109.0	103.9	93.7	79.0	65.8	52.7	49.0	41.0	37.3	36.6
115°	109.7	101.7	95.8	86.3	72.4	60.0	48.3	44.6	38.0	33.7	32.9
117.5°	103.9	95.8	90.0	80.5	68.0	55.6	45.4	41.0	34.4	30.0	30.0
120°	98.8	91.5	85.6	76.1	63.7	51.9	41.7	36.6	30.7	26.3	26.3
122.5°	94.4	87.1	81.2	71.0	58.5	46.8	38.0	32.2	27.1	22.7	22.7
125°	89.3	82.7	76.1	65.8	53.4	42.4	33.7	27.8	22.7	19.0	19.0
127.5°	82.7	76.8	69.5	59.3	48.3	37.3	30.0	24.1	19.0	16.1	16.1
130°	75.4	68.8	61.5	51.9	41.7	32.2	24.9	20.5	16.1	13.9	13.2
132.5°	65.1	60.0	52.7	44.6	35.1	27.1	20.5	16.8	13.2	11.0	11.0
135°	54.9	49.8	43.9	35.9	28.5	21.2	16.1	13.2	11.0	8.8	8.8
137.5°	42.4	38.8	34.4	27.8	21.2	16.1	12.4	10.2	8.0	6.6	6.6
140°	32.2	30.0	26.3	20.5	16.1	12.4	9.5	8.0	6.6	5.1	4.4
142.5°	24.9	23.4	20.5	16.1	12.4	9.5	7.3	5.9	4.4	3.7	2.9
145°	19.0	17.6	15.4	11.7	8.8	6.6	5.1	3.7	2.9	2.2	1.5
147.5°	13.9	12.4	10.2	8.0	5.9	3.7	2.9	2.2	1.5	0.7	0.7
150°	7.3	6.6	5.9	4.4	2.9	1.5	0.7	0.7	0.0	0.0	0.0
152.5°	1.5	1.5	1.5	1.5	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	0.7	0.7	0.7	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	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7

(END OF REPORT)