

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: P314545

Luminaire Tested: **MPN-A7-D-U-SYM-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314545
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-A7-D-U-SYM-7027
Description: NEW HAVEN POST TOP LUMINAIRE
(1) 70 CRI, 2700K LIGHT ENGINE. SYMMETRIC DISTRIBUTION.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5794 lumens
Efficiency: N/A
Efficacy: 84.3 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): 68.7
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

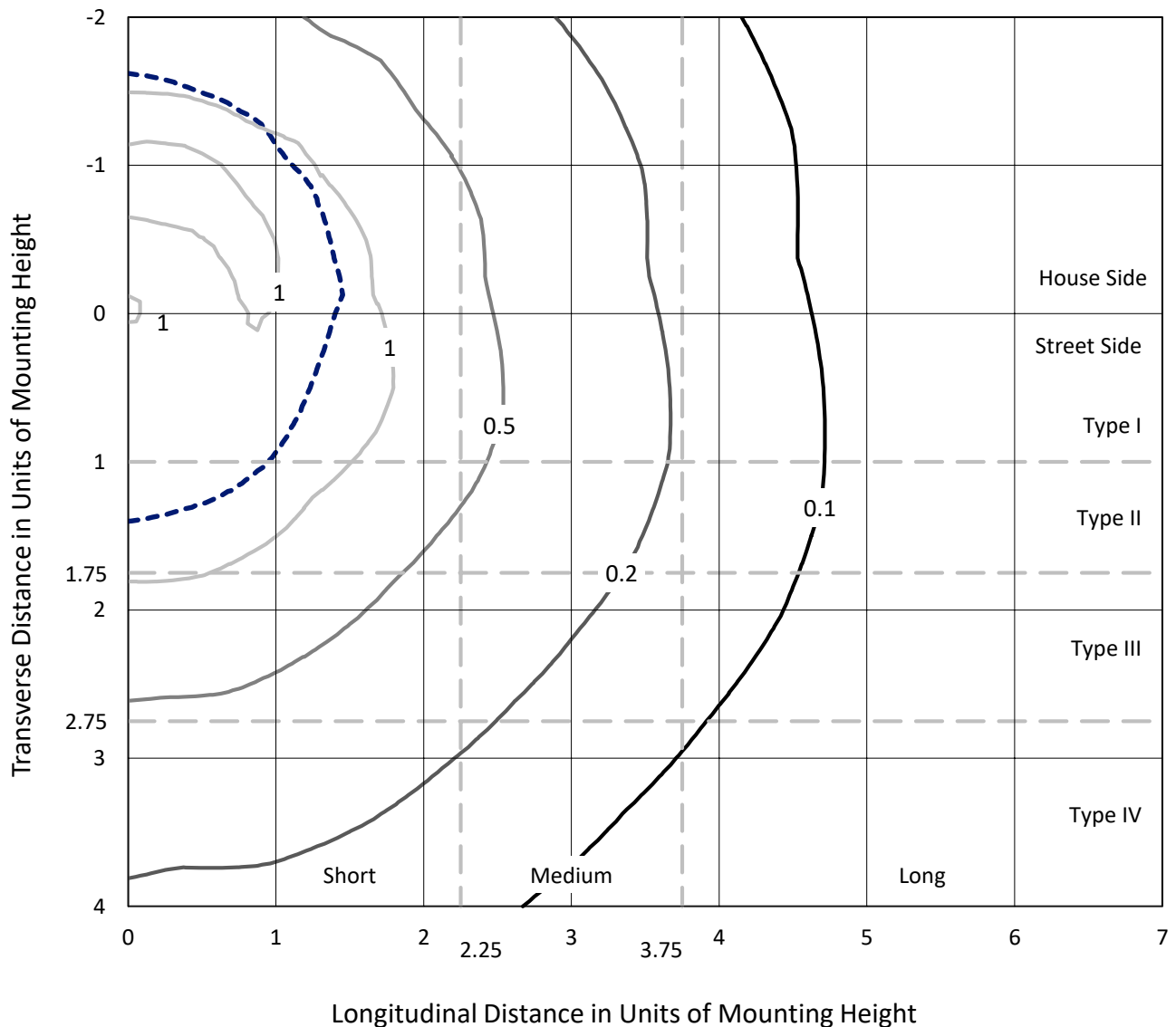


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Iso-Footcandle Lines of Horizontal Illumination

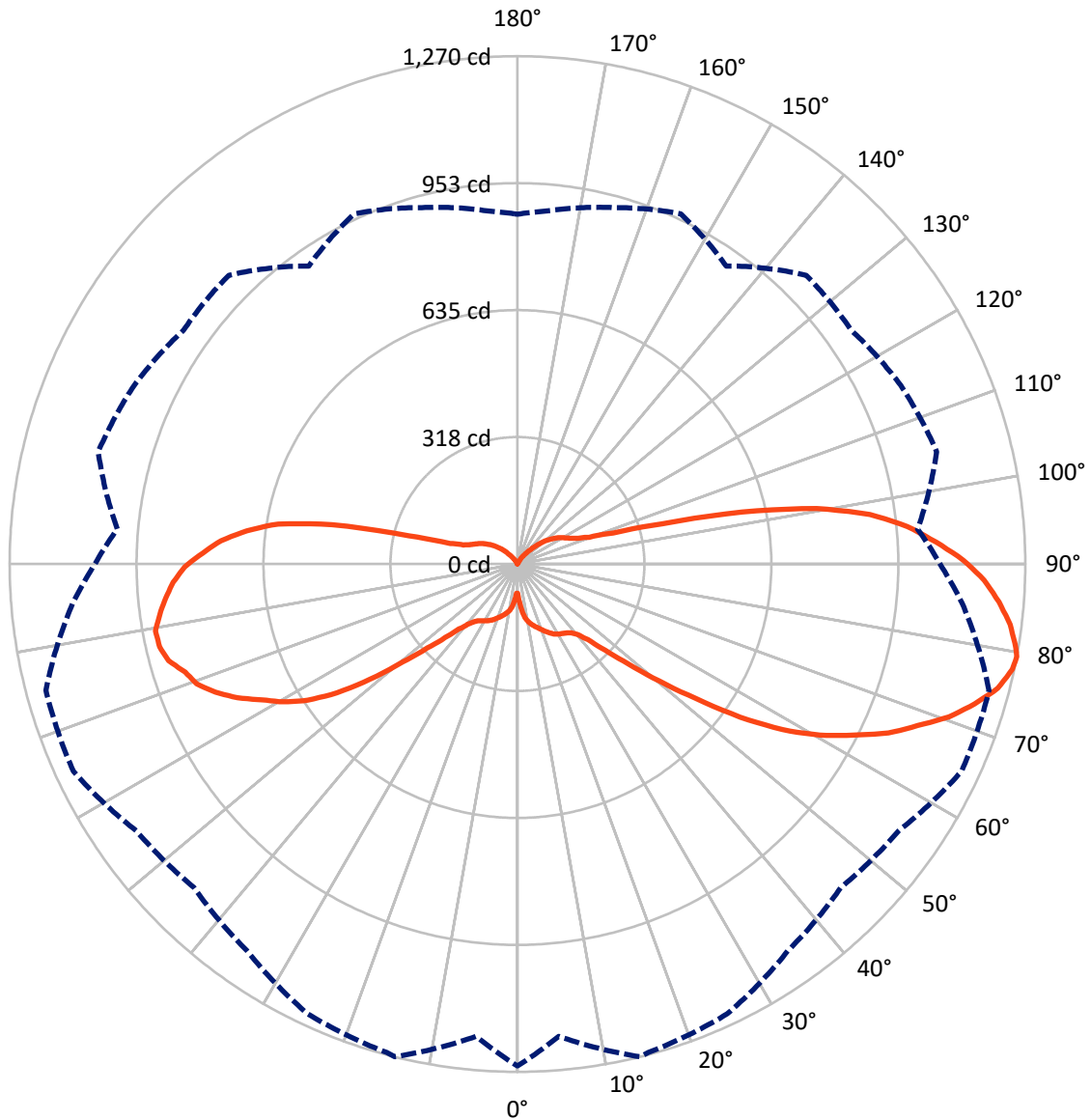
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1.5 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 14-Deg Lateral - - - Horizontal Cone Through 79-Deg Vertical

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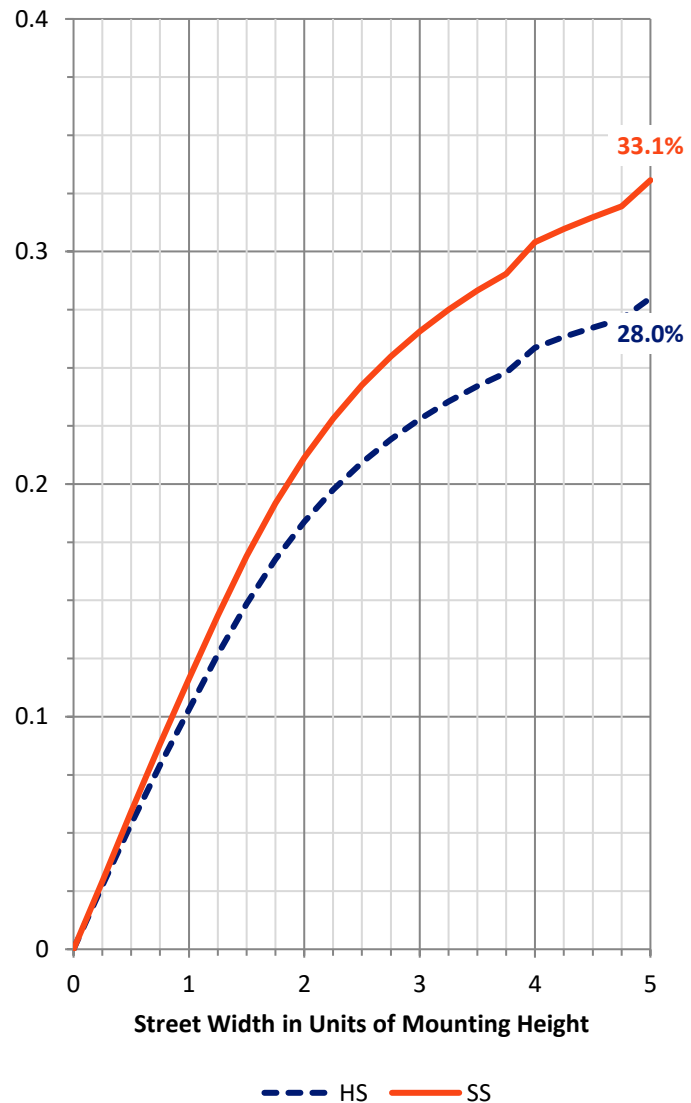
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1909.5	727.8	2637.3
	% Fixture	33.0	12.6	45.5
Street Side	Lumens	2284.3	872.5	3156.7
	% Fixture	39.4	15.1	54.5
Total	Lumens	4193.8	1600.2	5794.0
	% Fixture	72.4	27.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.7	0.2
10°-20°	41.5	0.7
20°-30°	81.0	1.4
30°-40°	123.3	2.1
40°-50°	232.6	4.0
50°-60°	561.4	9.7
60°-70°	893.8	15.4
70°-80°	1121.0	19.3
80°-90°	1128.4	19.5
90°-100°	925.1	16.0
100°-110°	390.8	6.7
110°-120°	135.3	2.3
120°-130°	90.2	1.6
130°-140°	44.9	0.8
140°-150°	13.2	0.2
150°-160°	0.7	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	4193.8	72.4
0°-180°	5794.0	100.0



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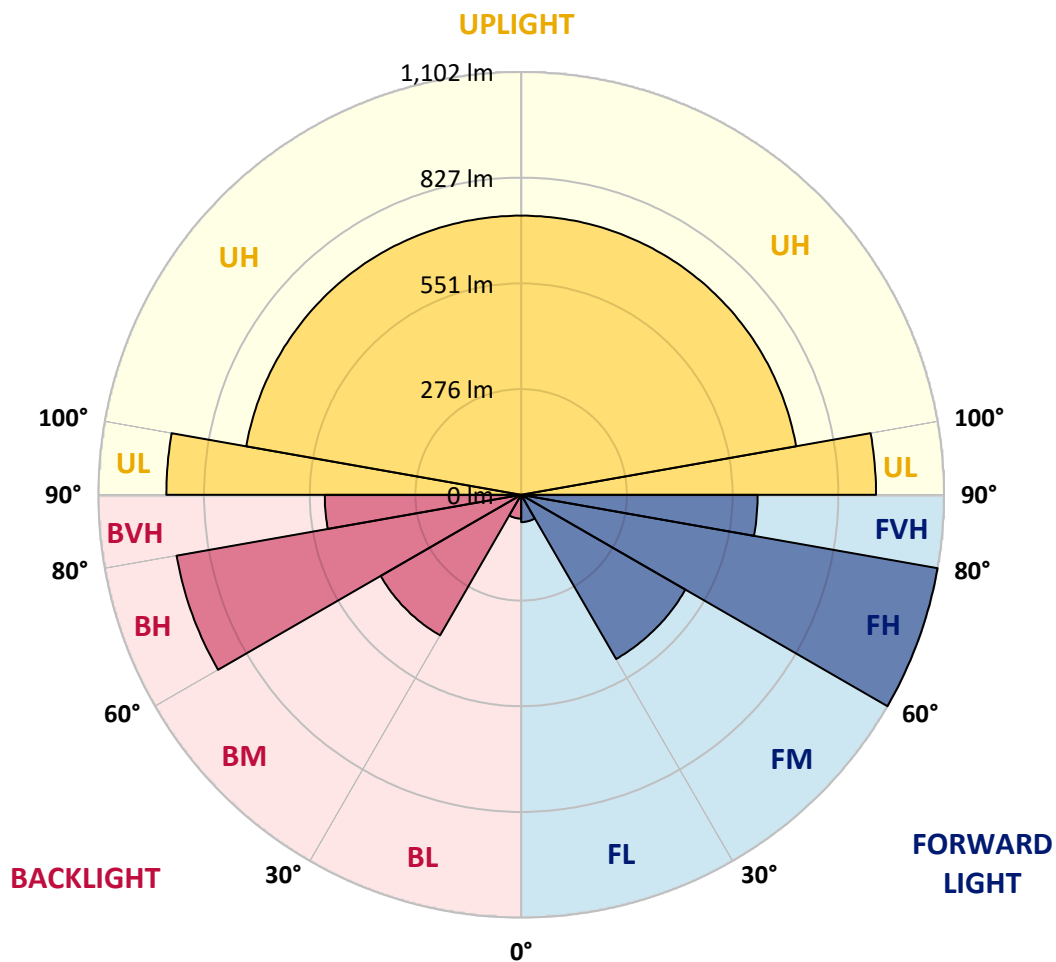
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	71.2	1.2			
FM (30°-60°)	494.4	8.5			
FH (60°-80°)	1102.3	19.0			G1/1800
FVH (80°-90°)	616.4	10.6			G4/750
BL (0°-30°)	62.1	1.1	B0/110		
BM (30°-60°)	423.0	7.3	B1/1000		
BH (60°-80°)	912.4	15.7	B2/1000		G1/1800
BVH (80°-90°)	512.0	8.8			G4/750
UL (90°-100°)	925.1	16.0		U4/1000	
UH (100°-180°)	727.8	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°	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
2.5°	97.5	94.7	94.7	95.6	95.6	91.9	89.1	89.1	87.3	85.4	81.7
5°	118.8	117.0	117.0	117.0	117.0	117.9	115.1	113.3	109.6	107.7	104.9
7.5°	135.6	134.6	134.6	135.6	134.6	133.7	130.9	130.9	127.2	125.3	122.6
10°	147.6	146.7	146.7	146.7	144.8	143.0	141.1	140.2	137.4	134.6	131.8
12.5°	154.1	153.2	154.1	154.1	152.3	148.6	147.6	146.7	144.8	142.1	138.3
15°	161.6	160.6	161.6	161.6	158.8	156.9	155.1	154.1	152.3	150.4	146.7
17.5°	169.0	168.1	168.1	168.1	167.1	163.4	161.6	162.5	159.7	156.9	154.1
20°	177.3	176.4	175.5	175.5	174.6	170.8	169.9	169.0	167.1	164.3	161.6
22.5°	186.6	184.8	183.8	183.8	182.9	179.2	179.2	178.3	175.5	172.7	170.8
25°	195.9	195.0	191.3	191.3	190.3	187.5	188.5	186.6	183.8	180.1	179.2
27.5°	203.3	201.5	197.8	197.8	196.8	194.0	195.0	193.1	189.4	186.6	185.7
30°	208.0	207.0	203.3	203.3	200.5	199.6	199.6	196.8	193.1	190.3	191.3
32.5°	210.8	210.8	207.0	206.1	204.3	203.3	202.4	200.5	195.9	193.1	194.0
35°	215.4	214.5	211.7	210.8	208.0	208.0	206.1	203.3	197.8	196.8	197.8
37.5°	221.0	220.0	218.2	217.3	212.6	214.5	211.7	209.8	204.3	203.3	202.4
40°	234.0	234.0	231.2	231.2	225.6	230.3	227.5	228.4	222.8	221.9	218.2
42.5°	258.1	258.1	259.0	260.0	255.3	260.0	259.0	263.7	259.0	255.3	249.8
45°	305.5	301.7	307.3	305.5	302.7	307.3	305.5	312.0	310.1	305.5	299.9
47.5°	364.0	371.4	372.3	374.2	368.6	374.2	372.3	379.7	383.5	377.9	363.0
50°	444.7	452.2	460.5	460.5	455.9	457.7	456.8	467.9	472.6	473.5	453.1
52.5°	539.4	546.9	558.0	564.5	557.1	562.6	564.5	585.9	600.7	598.9	563.6
55°	650.8	662.0	675.9	679.6	666.6	670.3	672.2	699.1	728.8	725.1	679.6
57.5°	759.5	769.7	781.8	788.3	772.5	767.8	753.0	784.5	822.6	820.8	753.9
60°	848.6	856.0	869.0	875.5	859.8	850.5	818.9	852.3	896.0	898.7	820.8
62.5°	927.5	931.2	942.4	948.9	931.2	921.0	882.0	917.3	960.0	963.7	879.3
65°	997.2	991.6	1019.4	1021.3	996.2	980.5	943.3	981.4	1022.2	1025.0	929.4
67.5°	1059.4	1048.2	1078.9	1085.4	1057.5	1033.4	998.1	1026.9	1071.4	1069.6	985.1
70°	1115.1	1100.2	1144.8	1148.5	1111.4	1078.9	1058.4	1075.2	1125.3	1126.2	1033.4
72.5°	1171.7	1143.9	1195.9	1196.8	1165.2	1117.9	1092.8	1114.2	1163.4	1158.7	1071.4
75°	1216.3	1167.1	1241.3	1237.6	1208.9	1151.3	1127.1	1143.9	1202.4	1200.5	1097.4
77.5°	1259.0	1188.4	1265.5	1262.7	1236.7	1174.5	1144.8	1168.0	1223.7	1222.8	1120.6
79°	1255.3	1185.6	1270.1	1264.6	1241.3	1180.1	1143.9	1163.4	1225.6	1220.9	1116.0
80°	1251.6	1177.3	1263.6	1259.0	1233.9	1173.6	1130.9	1146.6	1208.9	1206.1	1101.2
82.5°	1225.6	1156.9	1241.3	1234.9	1213.5	1158.7	1117.9	1132.7	1206.1	1196.8	1087.2
85°	1190.3	1125.3	1207.9	1202.4	1181.9	1129.0	1081.7	1093.7	1158.7	1156.9	1054.7
87.5°	1144.8	1085.4	1168.0	1162.4	1143.9	1095.6	1048.2	1062.2	1128.1	1127.1	1019.4
90°	1101.2	1043.6	1115.1	1113.2	1094.7	1050.1	1009.2	1030.6	1098.4	1094.7	987.9
92.5°	1035.2	983.2	1048.2	1049.2	1031.5	994.4	956.3	974.0	1026.9	1025.9	927.5
95°	968.4	920.1	979.5	979.5	962.8	930.3	891.3	904.3	956.3	964.7	870.0
97.5°	880.2	837.5	890.4	892.2	879.3	851.4	818.0	834.7	884.8	893.2	806.8
100°	743.7	714.9	761.3	766.0	755.8	739.1	715.8	740.0	783.6	792.9	717.7
102.5°	544.1	535.7	576.6	574.7	571.0	566.4	560.8	573.8	602.6	616.5	539.4
105°	369.5	355.6	377.0	376.0	368.6	356.5	342.6	341.7	349.1	343.5	305.5
107.5°	248.8	243.3	251.6	252.5	247.0	236.8	223.8	222.8	229.3	225.6	205.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	189.4	186.6	191.3	192.2	189.4	181.0	174.6	174.6	181.0	178.3	165.3
112.5°	164.3	162.5	165.3	165.3	163.4	155.1	151.3	154.1	159.7	158.8	147.6
115°	149.5	148.6	149.5	150.4	147.6	140.2	138.3	141.1	146.7	145.8	136.5
117.5°	139.3	138.3	138.3	139.3	136.5	130.0	129.1	131.8	137.4	136.5	128.1
120°	130.0	130.0	130.0	130.0	128.1	122.6	121.6	125.3	130.0	129.1	121.6
122.5°	120.7	120.7	120.7	120.7	118.8	115.1	115.1	118.8	122.6	121.6	115.1
125°	110.5	110.5	109.6	110.5	108.6	106.8	106.8	110.5	113.3	113.3	107.7
127.5°	100.3	100.3	98.4	99.3	97.5	96.6	97.5	101.2	104.0	104.0	100.3
130°	89.1	88.2	86.3	87.3	85.4	85.4	87.3	91.0	92.8	93.8	90.1
132.5°	76.1	75.2	73.3	73.3	73.3	73.3	75.2	78.0	80.8	80.8	78.9
135°	63.1	62.2	60.3	60.3	60.3	59.4	62.2	65.0	66.8	66.8	65.0
137.5°	49.2	49.2	47.4	48.3	47.4	46.4	48.3	50.1	51.1	52.0	50.1
140°	39.0	39.0	38.1	37.1	36.2	35.3	36.2	37.1	38.1	39.0	38.1
142.5°	30.6	30.6	29.7	29.7	28.8	27.9	27.9	28.8	30.6	30.6	29.7
145°	23.2	23.2	23.2	22.3	21.4	21.4	21.4	22.3	23.2	23.2	23.2
147.5°	16.7	15.8	15.8	15.8	14.9	14.9	15.8	15.8	16.7	16.7	16.7
150°	8.4	8.4	8.4	8.4	8.4	8.4	9.3	9.3	10.2	10.2	9.3
152.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.9
155°	0.0	0.0	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.9	0.9	0.0	0.0	0.0	0.0	0.9	0.0	0.0
165°	0.0	0.0	0.9	0.9	0.9	0.0	0.0	0.0	0.9	0.9	0.0
167.5°	0.9	0.0	0.9	0.9	0.9	0.0	0.9	0.0	0.9	0.9	0.0
170°	0.0	0.0	0.9	0.9	0.9	0.0	0.0	0.0	0.9	0.0	0.0
172.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.9	0.9	0.0
175°	0.0	0.0	0.9	0.9	0.9	0.0	0.0	0.0	0.9	0.9	0.0
177.5°	0.9	0.0	0.9	0.9	0.9	0.9	0.9	0.0	0.9	0.9	0.0
180°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
2.5°	80.8	79.8	78.0	78.9	76.1	75.2	74.3	73.3	73.3	73.3	72.4
5°	103.1	101.2	96.6	94.7	94.7	92.8	92.8	91.9	91.9	91.9	91.9
7.5°	120.7	119.8	115.1	111.4	109.6	108.6	108.6	107.7	107.7	106.8	105.8
10°	130.0	128.1	125.3	123.5	121.6	119.8	117.9	118.8	117.9	116.1	116.1
12.5°	137.4	135.6	132.8	130.9	129.1	126.3	125.3	125.3	124.4	121.6	121.6
15°	144.8	143.0	141.1	138.3	136.5	133.7	131.8	131.8	130.9	128.1	127.2
17.5°	152.3	151.3	148.6	145.8	143.9	141.1	138.3	137.4	136.5	134.6	133.7
20°	160.6	158.8	156.0	153.2	150.4	148.6	145.8	143.0	142.1	141.1	140.2
22.5°	169.9	167.1	164.3	160.6	157.8	156.9	152.3	149.5	148.6	146.7	146.7
25°	178.3	174.6	171.8	169.0	165.3	164.3	159.7	156.0	154.1	153.2	153.2
27.5°	184.8	181.0	178.3	175.5	171.8	170.8	165.3	161.6	158.8	158.8	159.7
30°	189.4	186.6	183.8	180.1	178.3	177.3	170.8	166.2	163.4	164.3	164.3
32.5°	193.1	190.3	187.5	183.8	182.0	181.0	175.5	169.9	167.1	168.1	168.1
35°	195.9	194.0	191.3	187.5	186.6	184.8	179.2	173.6	171.8	173.6	172.7
37.5°	201.5	198.7	195.9	191.3	193.1	190.3	185.7	180.1	180.1	182.9	182.0
40°	215.4	211.7	208.0	202.4	203.3	202.4	199.6	195.0	195.0	198.7	197.8
42.5°	244.2	238.6	232.1	224.7	224.7	222.8	219.1	217.3	218.2	221.0	221.0
45°	287.8	277.6	273.0	263.7	261.8	260.0	256.3	252.5	258.1	257.2	259.0
47.5°	350.0	336.1	330.5	318.5	316.6	315.7	310.1	306.4	308.2	310.1	314.7
50°	434.5	414.1	407.6	395.5	392.7	389.0	377.9	373.2	377.0	379.7	383.5
52.5°	545.0	509.7	507.9	496.7	480.9	487.4	472.6	465.2	467.9	467.0	471.7
55°	654.6	613.7	618.4	603.5	582.1	589.6	560.8	559.9	555.2	551.5	553.4
57.5°	730.7	690.8	709.3	690.8	663.8	671.3	633.2	628.6	626.7	615.6	611.9
60°	789.2	748.3	776.2	750.2	720.5	740.0	686.1	689.8	680.6	668.5	660.1
62.5°	841.2	799.4	832.8	803.1	770.6	791.0	730.7	742.8	724.2	714.0	699.1
65°	890.4	851.4	885.7	858.8	815.2	844.0	775.3	797.5	778.0	759.5	745.6
67.5°	937.7	899.7	939.6	912.7	865.3	893.2	809.6	843.0	822.6	802.2	785.5
70°	977.7	937.7	984.2	959.1	908.0	926.6	827.3	886.7	857.9	839.3	816.1
72.5°	1014.8	968.4	1025.9	1002.7	948.9	964.7	853.3	921.0	875.5	857.9	841.2
75°	1038.9	987.9	1060.3	1033.4	989.7	998.1	884.8	948.0	908.0	879.3	866.3
77.5°	1061.2	1005.5	1081.7	1050.1	1010.2	1014.8	905.2	966.5	922.0	889.5	872.8
79°	1056.6	1004.6	1085.4	1057.5	1019.4	1021.3	909.9	966.5	922.9	886.7	874.6
80°	1045.4	996.2	1076.1	1044.5	1006.4	1009.2	905.2	959.1	925.7	876.5	865.3
82.5°	1033.4	982.3	1062.2	1033.4	995.3	992.5	898.7	948.0	907.1	867.2	855.1
85°	1001.8	957.2	1032.4	1003.7	972.1	967.5	878.3	923.8	888.5	838.4	828.2
87.5°	972.1	928.5	1004.6	976.7	946.1	942.4	861.6	907.1	867.2	813.3	807.8
90°	939.6	895.0	966.5	938.7	904.3	897.8	824.5	870.0	837.5	785.5	779.9
92.5°	881.1	841.2	909.0	884.8	856.0	851.4	780.8	822.6	792.0	745.6	740.0
95°	828.2	790.1	850.5	830.0	803.1	802.2	732.6	777.1	747.4	705.6	702.8
97.5°	770.6	733.5	785.5	766.9	740.0	737.2	672.2	712.1	686.1	648.1	645.3
100°	679.6	648.1	682.4	668.5	636.9	645.3	587.7	630.4	610.0	576.6	570.1
102.5°	509.7	484.7	495.8	484.7	456.8	468.9	439.2	484.7	476.3	457.7	452.2
105°	288.8	281.3	288.8	285.0	274.8	272.0	257.2	287.8	281.3	274.8	271.1
107.5°	195.0	189.4	195.9	193.1	181.0	180.1	169.0	182.9	176.4	170.8	168.1



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CATALOG NUMBER: MPN-A7-D-U-SYM-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	158.8	154.1	158.8	157.8	149.5	146.7	138.3	147.6	143.0	138.3	136.5
112.5°	142.1	138.3	142.1	141.1	132.8	131.8	125.3	132.8	129.1	125.3	124.4
115°	131.8	128.1	130.9	130.0	122.6	121.6	116.1	122.6	119.8	116.1	115.1
117.5°	124.4	120.7	122.6	120.7	115.1	113.3	108.6	114.2	112.3	107.7	106.8
120°	117.9	114.2	116.1	113.3	107.7	105.8	102.1	105.8	104.0	101.2	100.3
122.5°	112.3	108.6	109.6	105.8	100.3	97.5	94.7	96.6	95.6	92.8	91.9
125°	104.9	101.2	101.2	97.5	91.0	89.1	86.3	87.3	86.3	85.4	84.5
127.5°	96.6	93.8	91.9	88.2	82.6	78.9	77.1	78.0	78.0	77.1	76.1
130°	87.3	84.5	80.8	77.1	72.4	69.6	66.8	68.7	68.7	68.7	68.7
132.5°	76.1	73.3	69.6	65.9	61.3	59.4	56.6	58.5	59.4	60.3	59.4
135°	63.1	61.3	57.6	53.9	50.1	47.4	46.4	48.3	50.1	50.1	49.2
137.5°	49.2	47.4	45.5	42.7	39.0	37.1	36.2	38.1	39.9	39.9	39.0
140°	37.1	37.1	35.3	32.5	28.8	27.9	27.9	28.8	29.7	29.7	28.8
142.5°	28.8	28.8	26.9	25.1	22.3	21.4	21.4	22.3	23.2	23.2	22.3
145°	22.3	22.3	20.4	18.6	16.7	15.8	15.8	16.7	17.6	17.6	16.7
147.5°	16.7	15.8	13.9	13.0	11.1	11.1	11.1	11.1	12.1	12.1	12.1
150°	9.3	9.3	8.4	6.5	5.6	5.6	5.6	6.5	7.4	7.4	6.5
152.5°	1.9	1.9	1.9	1.9	0.9	0.0	0.9	0.9	0.9	0.9	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	0.9	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.0	0.0
167.5°	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.9	0.9	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.0	0.0
172.5°	0.0	0.0	0.9	0.9	0.0	0.0	0.0	0.9	0.9	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.0	0.0
177.5°	0.0	0.0	0.9	0.9	0.0	0.9	0.0	0.9	0.9	0.0	0.0
180°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9

(END OF REPORT)