

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: P314557

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314557
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
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: 6240 lumens
Efficiency: N/A
Efficacy: 90.8 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): 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

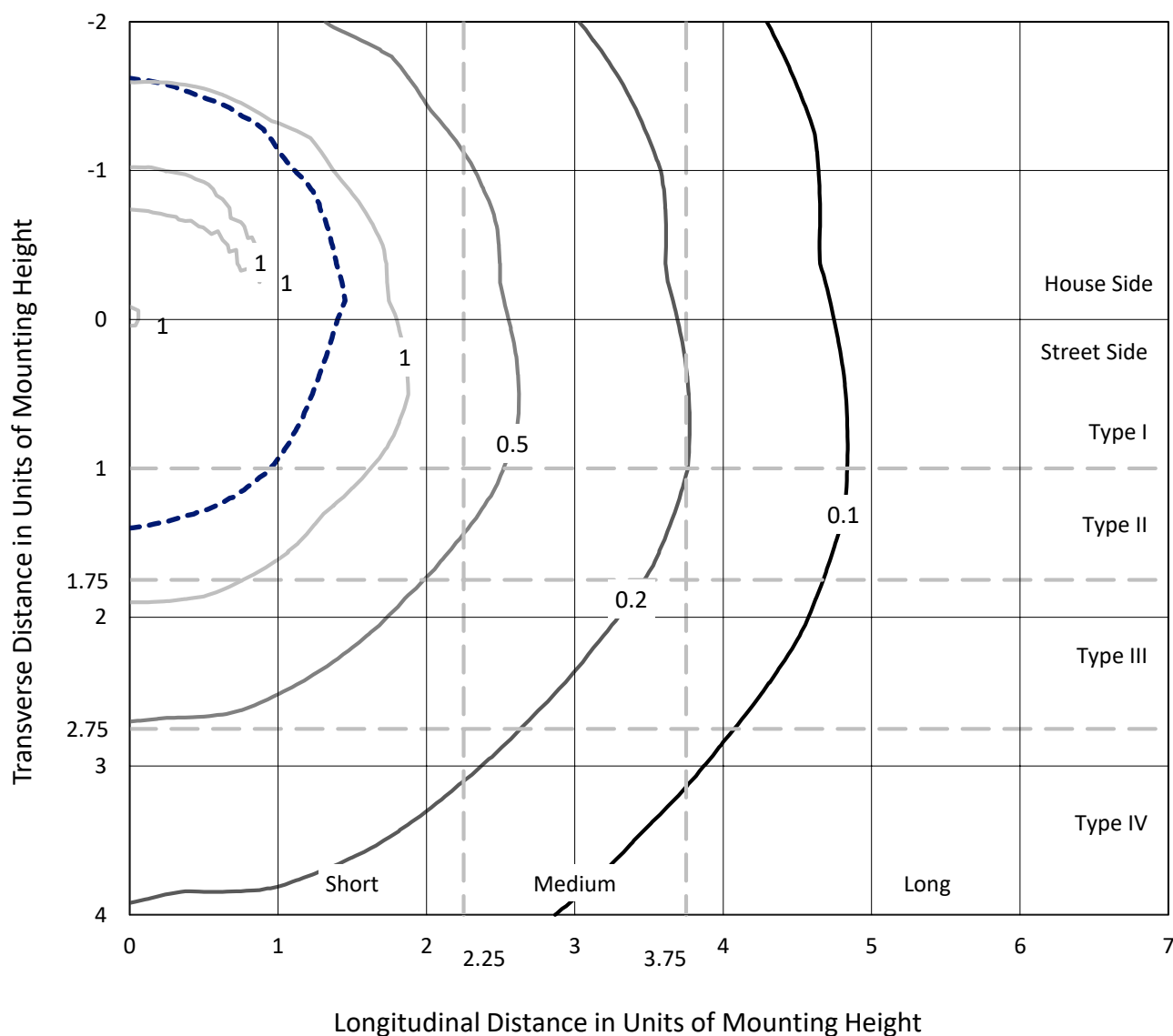


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

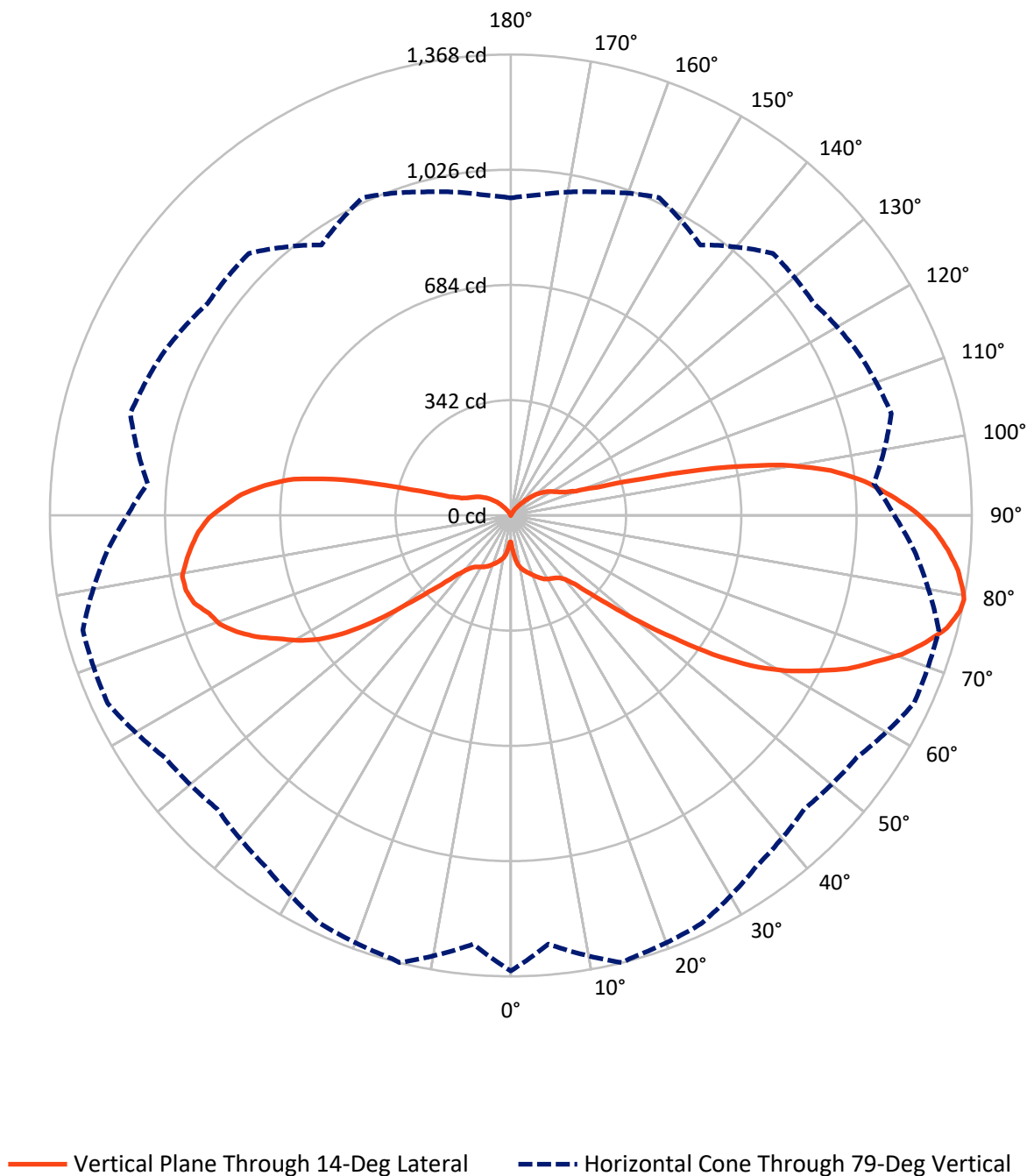


Based on 10 foot mounting height. Maximum calculated value = 1.6 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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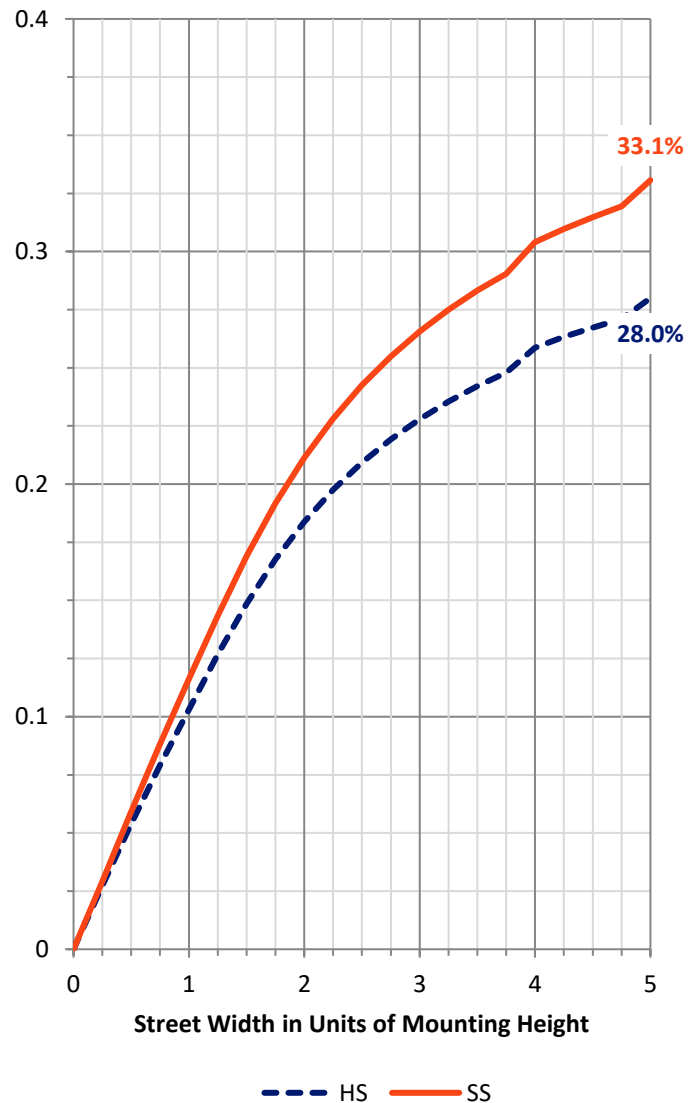
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2056.5	783.8	2840.3
	% Fixture	33.0	12.6	45.5
Street Side	Lumens	2460.1	939.6	3399.7
	% Fixture	39.4	15.1	54.5
Total	Lumens	4516.6	1723.4	6240.0
	% Fixture	72.4	27.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.6	0.2
10°-20°	44.7	0.7
20°-30°	87.2	1.4
30°-40°	132.8	2.1
40°-50°	250.6	4.0
50°-60°	604.7	9.7
60°-70°	962.5	15.4
70°-80°	1207.2	19.3
80°-90°	1215.2	19.5
90°-100°	996.3	16.0
100°-110°	420.9	6.7
110°-120°	145.7	2.3
120°-130°	97.1	1.6
130°-140°	48.4	0.8
140°-150°	14.2	0.2
150°-160°	0.7	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	4516.6	72.4
0°-180°	6240.0	100.0

Coefficient of Utilization



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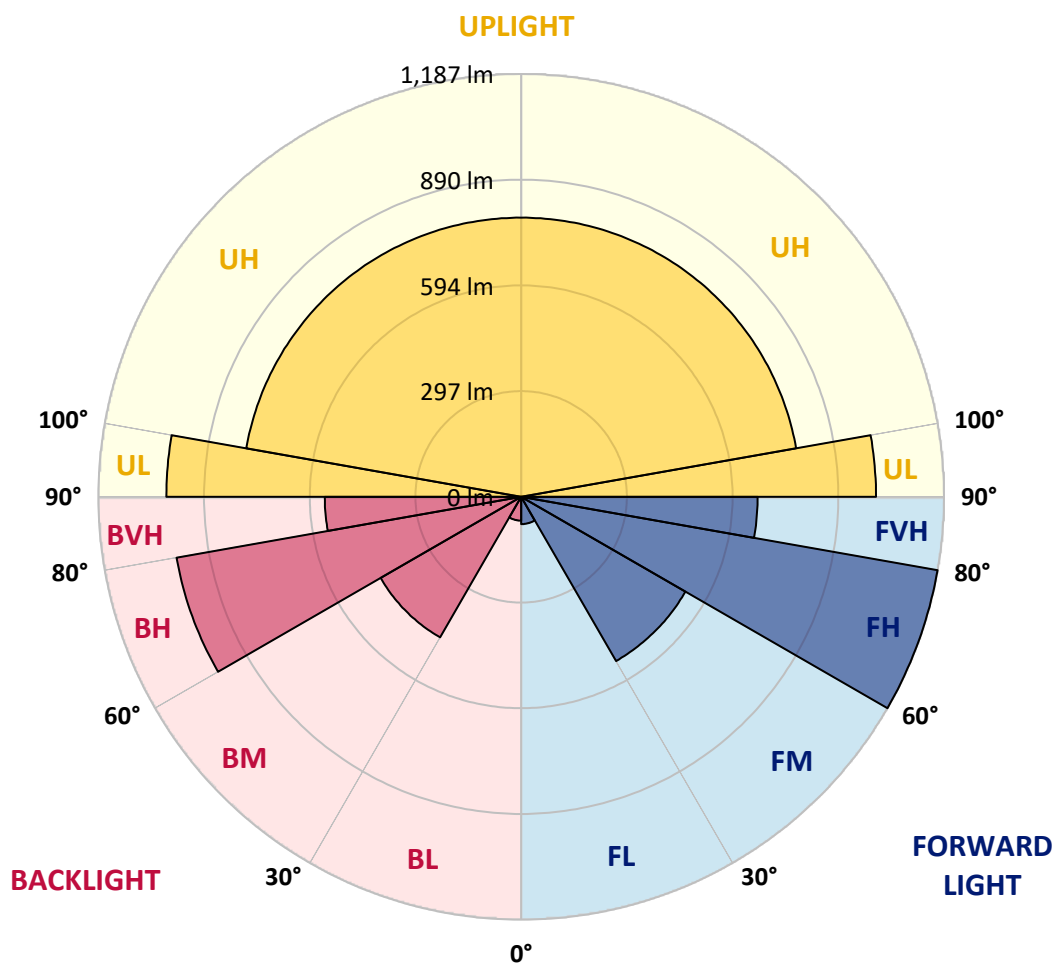
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	76.6	1.2			
FM	(30°-60°)	532.5	8.5			
FH	(60°-80°)	1187.2	19.0			G1/1800
FVH	(80°-90°)	663.8	10.6			G4/750
BL	(0°-30°)	66.8	1.1	B0/110		
BM	(30°-60°)	455.6	7.3	B1/1000		
BH	(60°-80°)	982.6	15.7	B2/1000		G1/1800
BVH	(80°-90°)	551.4	8.8			G4/750
UL	(90°-100°)	996.3	16.0		U4/1000	
UH	(100°-180°)	783.8	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°	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
2.5°	105.0	102.0	102.0	103.0	103.0	99.0	96.0	96.0	94.0	92.0	88.0
5°	128.0	126.0	126.0	126.0	126.0	127.0	124.0	122.0	118.0	116.0	113.0
7.5°	146.0	145.0	145.0	146.0	145.0	144.0	141.0	141.0	137.0	135.0	132.0
10°	159.0	158.0	158.0	158.0	156.0	154.0	152.0	151.0	148.0	145.0	142.0
12.5°	166.0	165.0	166.0	166.0	164.0	160.0	159.0	158.0	156.0	153.0	149.0
15°	174.0	173.0	174.0	174.0	171.0	169.0	167.0	166.0	164.0	162.0	158.0
17.5°	182.0	181.0	181.0	181.0	180.0	176.0	174.0	175.0	172.0	169.0	166.0
20°	191.0	190.0	189.0	189.0	188.0	184.0	183.0	182.0	180.0	177.0	174.0
22.5°	201.0	199.0	198.0	198.0	197.0	193.0	193.0	192.0	189.0	186.0	184.0
25°	211.0	210.0	206.0	206.0	205.0	202.0	203.0	201.0	198.0	194.0	193.0
27.5°	219.0	217.0	214.0	213.0	212.0	209.0	210.0	208.0	204.0	201.0	200.0
30°	224.0	223.0	219.0	219.0	216.0	215.0	215.0	212.0	208.0	205.0	206.0
32.5°	227.0	227.0	223.0	222.0	220.0	219.0	218.0	216.0	211.0	208.0	209.0
35°	232.0	231.0	228.0	227.0	224.0	224.0	222.0	219.0	213.0	212.0	213.0
37.5°	238.0	237.0	235.0	234.0	229.0	231.0	228.0	226.0	220.0	219.0	218.0
40°	252.0	252.0	249.0	249.0	243.0	248.0	245.0	246.0	240.0	239.0	235.0
42.5°	278.0	278.0	279.0	280.0	275.0	280.0	279.0	284.0	279.0	275.0	269.0
45°	329.0	325.0	331.0	329.0	326.0	331.0	329.0	336.0	334.0	329.0	323.0
47.5°	392.0	400.0	401.0	403.0	397.0	403.0	401.0	409.0	413.0	407.0	391.0
50°	479.0	487.0	496.0	496.0	491.0	493.0	492.0	504.0	509.0	510.0	488.0
52.5°	581.0	589.0	601.0	608.0	600.0	606.0	608.0	631.0	647.0	645.0	607.0
55°	700.9	712.9	727.9	731.9	717.9	721.9	723.9	752.9	784.9	780.9	731.9
57.5°	817.9	828.9	841.9	848.9	831.9	826.9	810.9	844.9	885.9	883.9	811.9
60°	913.9	921.9	935.9	942.9	925.9	915.9	881.9	917.9	964.9	967.9	883.9
62.5°	998.9	1002.9	1014.9	1021.9	1002.9	991.9	949.9	987.9	1033.9	1037.9	946.9
65°	1073.9	1067.9	1097.9	1099.9	1072.9	1055.9	1015.9	1056.9	1100.9	1103.9	1000.9
67.5°	1140.9	1128.9	1161.9	1168.9	1138.9	1112.9	1074.9	1105.9	1153.9	1151.9	1060.9
70°	1200.9	1184.9	1232.9	1236.9	1196.9	1161.9	1139.9	1157.9	1211.9	1212.9	1112.9
72.5°	1261.9	1231.9	1287.9	1288.9	1254.9	1203.9	1176.9	1199.9	1252.9	1247.9	1153.9
75°	1309.9	1256.9	1336.9	1332.9	1301.9	1239.9	1213.9	1231.9	1294.9	1292.9	1181.9
77.5°	1355.9	1279.9	1362.9	1359.9	1331.9	1264.9	1232.9	1257.9	1317.9	1316.9	1206.9
79°	1351.9	1276.9	1367.9	1361.9	1336.9	1270.9	1231.9	1252.9	1319.9	1314.9	1201.9
80°	1347.9	1267.9	1360.9	1355.9	1328.9	1263.9	1217.9	1234.9	1301.9	1298.9	1185.9
82.5°	1319.9	1245.9	1336.9	1329.9	1306.9	1247.9	1203.9	1219.9	1298.9	1288.9	1170.9
85°	1281.9	1211.9	1300.9	1294.9	1272.9	1215.9	1164.9	1177.9	1247.9	1245.9	1135.9
87.5°	1232.9	1168.9	1257.9	1251.9	1231.9	1179.9	1128.9	1143.9	1214.9	1213.9	1097.9
90°	1185.9	1123.9	1200.9	1198.9	1178.9	1130.9	1086.9	1109.9	1182.9	1178.9	1063.9
92.5°	1114.9	1058.9	1128.9	1129.9	1110.9	1070.9	1029.9	1048.9	1105.9	1104.9	998.9
95°	1042.9	990.9	1054.9	1054.9	1036.9	1001.9	959.9	973.9	1029.9	1038.9	936.9
97.5°	947.9	901.9	958.9	960.9	946.9	916.9	880.9	898.9	952.9	961.9	868.9
100°	800.9	769.9	819.9	824.9	813.9	795.9	770.9	796.9	843.9	853.9	772.9
102.5°	586.0	577.0	621.0	619.0	615.0	610.0	604.0	618.0	649.0	664.0	581.0
105°	398.0	383.0	406.0	405.0	397.0	384.0	369.0	368.0	376.0	370.0	329.0
107.5°	268.0	262.0	271.0	272.0	266.0	255.0	241.0	240.0	247.0	243.0	221.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	204.0	201.0	206.0	207.0	204.0	195.0	188.0	188.0	195.0	192.0	178.0
112.5°	177.0	175.0	178.0	178.0	176.0	167.0	163.0	166.0	172.0	171.0	159.0
115°	161.0	160.0	161.0	162.0	159.0	151.0	149.0	152.0	158.0	157.0	147.0
117.5°	150.0	149.0	149.0	150.0	147.0	140.0	139.0	142.0	148.0	147.0	138.0
120°	140.0	140.0	140.0	140.0	138.0	132.0	131.0	135.0	140.0	139.0	131.0
122.5°	130.0	130.0	130.0	130.0	128.0	124.0	124.0	128.0	132.0	131.0	124.0
125°	119.0	119.0	118.0	119.0	117.0	115.0	115.0	119.0	122.0	122.0	116.0
127.5°	108.0	108.0	106.0	107.0	105.0	104.0	105.0	109.0	112.0	112.0	108.0
130°	96.0	95.0	93.0	94.0	92.0	92.0	94.0	98.0	100.0	101.0	97.0
132.5°	82.0	81.0	79.0	79.0	79.0	79.0	81.0	84.0	87.0	87.0	85.0
135°	68.0	67.0	65.0	65.0	65.0	64.0	67.0	70.0	72.0	72.0	70.0
137.5°	53.0	53.0	51.0	52.0	51.0	50.0	52.0	54.0	55.0	56.0	54.0
140°	42.0	42.0	41.0	40.0	39.0	38.0	39.0	40.0	41.0	42.0	41.0
142.5°	33.0	33.0	32.0	32.0	31.0	30.0	30.0	31.0	33.0	33.0	32.0
145°	25.0	25.0	25.0	24.0	23.0	23.0	23.0	24.0	25.0	25.0	25.0
147.5°	18.0	17.0	17.0	17.0	16.0	16.0	17.0	17.0	18.0	18.0	18.0
150°	9.0	9.0	9.0	9.0	9.0	9.0	10.0	10.0	11.0	11.0	10.0
152.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0
155°	0.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
165°	0.0	0.0	1.0	1.0	1.0	0.0	0.0	0.0	1.0	1.0	0.0
167.5°	1.0	0.0	1.0	1.0	1.0	0.0	1.0	0.0	1.0	1.0	0.0
170°	0.0	0.0	1.0	1.0	1.0	0.0	0.0	0.0	1.0	0.0	0.0
172.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	0.0
175°	0.0	0.0	1.0	1.0	1.0	0.0	0.0	0.0	1.0	1.0	0.0
177.5°	1.0	0.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	0.0
180°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
2.5°	87.0	86.0	84.0	85.0	82.0	81.0	80.0	79.0	79.0	79.0	78.0
5°	111.0	109.0	104.0	102.0	102.0	100.0	100.0	99.0	99.0	99.0	99.0
7.5°	130.0	129.0	124.0	120.0	118.0	117.0	117.0	116.0	116.0	115.0	114.0
10°	140.0	138.0	135.0	133.0	131.0	129.0	127.0	128.0	127.0	125.0	125.0
12.5°	148.0	146.0	143.0	141.0	139.0	136.0	135.0	135.0	134.0	131.0	131.0
15°	156.0	154.0	152.0	149.0	147.0	144.0	142.0	142.0	141.0	138.0	137.0
17.5°	164.0	163.0	160.0	157.0	155.0	152.0	149.0	148.0	147.0	145.0	144.0
20°	173.0	171.0	168.0	165.0	162.0	160.0	157.0	154.0	153.0	152.0	151.0
22.5°	183.0	180.0	177.0	173.0	170.0	169.0	164.0	161.0	160.0	158.0	158.0
25°	192.0	188.0	185.0	182.0	178.0	177.0	172.0	168.0	166.0	165.0	165.0
27.5°	199.0	195.0	192.0	189.0	185.0	184.0	178.0	174.0	171.0	171.0	172.0
30°	204.0	201.0	198.0	194.0	192.0	191.0	184.0	179.0	176.0	177.0	177.0
32.5°	208.0	205.0	202.0	198.0	196.0	195.0	189.0	183.0	180.0	181.0	181.0
35°	211.0	209.0	206.0	202.0	201.0	199.0	193.0	187.0	185.0	187.0	186.0
37.5°	217.0	214.0	211.0	206.0	208.0	205.0	200.0	194.0	194.0	197.0	196.0
40°	232.0	228.0	224.0	218.0	219.0	218.0	215.0	210.0	210.0	214.0	213.0
42.5°	263.0	257.0	250.0	242.0	242.0	240.0	236.0	234.0	235.0	238.0	238.0
45°	310.0	299.0	294.0	284.0	282.0	280.0	276.0	272.0	278.0	277.0	279.0
47.5°	377.0	362.0	356.0	343.0	341.0	340.0	334.0	330.0	332.0	334.0	339.0
50°	468.0	446.0	439.0	426.0	423.0	419.0	407.0	402.0	406.0	409.0	413.0
52.5°	587.0	549.0	547.0	535.0	518.0	525.0	509.0	501.0	504.0	503.0	508.0
55°	704.9	661.0	666.0	650.0	627.0	635.0	604.0	603.0	598.0	594.0	596.0
57.5°	786.9	743.9	763.9	743.9	714.9	722.9	682.0	677.0	675.0	663.0	659.0
60°	849.9	805.9	835.9	807.9	775.9	796.9	738.9	742.9	732.9	719.9	710.9
62.5°	905.9	860.9	896.9	864.9	829.9	851.9	786.9	799.9	779.9	768.9	752.9
65°	958.9	916.9	953.9	924.9	877.9	908.9	834.9	858.9	837.9	817.9	802.9
67.5°	1009.9	968.9	1011.9	982.9	931.9	961.9	871.9	907.9	885.9	863.9	845.9
70°	1052.9	1009.9	1059.9	1032.9	977.9	997.9	890.9	954.9	923.9	903.9	878.9
72.5°	1092.9	1042.9	1104.9	1079.9	1021.9	1038.9	918.9	991.9	942.9	923.9	905.9
75°	1118.9	1063.9	1141.9	1112.9	1065.9	1074.9	952.9	1020.9	977.9	946.9	932.9
77.5°	1142.9	1082.9	1164.9	1130.9	1087.9	1092.9	974.9	1040.9	992.9	957.9	939.9
79°	1137.9	1081.9	1168.9	1138.9	1097.9	1099.9	979.9	1040.9	993.9	954.9	941.9
80°	1125.9	1072.9	1158.9	1124.9	1083.9	1086.9	974.9	1032.9	996.9	943.9	931.9
82.5°	1112.9	1057.9	1143.9	1112.9	1071.9	1068.9	967.9	1020.9	976.9	933.9	920.9
85°	1078.9	1030.9	1111.9	1080.9	1046.9	1041.9	945.9	994.9	956.9	902.9	891.9
87.5°	1046.9	999.9	1081.9	1051.9	1018.9	1014.9	927.9	976.9	933.9	875.9	869.9
90°	1011.9	963.9	1040.9	1010.9	973.9	966.9	887.9	936.9	901.9	845.9	839.9
92.5°	948.9	905.9	978.9	952.9	921.9	916.9	840.9	885.9	852.9	802.9	796.9
95°	891.9	850.9	915.9	893.9	864.9	863.9	788.9	836.9	804.9	759.9	756.9
97.5°	829.9	789.9	845.9	825.9	796.9	793.9	723.9	766.9	738.9	697.9	694.9
100°	731.9	697.9	734.9	719.9	686.0	694.9	633.0	679.0	657.0	621.0	614.0
102.5°	549.0	522.0	534.0	522.0	492.0	505.0	473.0	522.0	513.0	493.0	487.0
105°	311.0	303.0	311.0	307.0	296.0	293.0	277.0	310.0	303.0	296.0	292.0
107.5°	210.0	204.0	211.0	208.0	195.0	194.0	182.0	197.0	190.0	184.0	181.0



REPORT NUMBER: P314557

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	171.0	166.0	171.0	170.0	161.0	158.0	149.0	159.0	154.0	149.0	147.0
112.5°	153.0	149.0	153.0	152.0	143.0	142.0	135.0	143.0	139.0	135.0	134.0
115°	142.0	138.0	141.0	140.0	132.0	131.0	125.0	132.0	129.0	125.0	124.0
117.5°	134.0	130.0	132.0	130.0	124.0	122.0	117.0	123.0	121.0	116.0	115.0
120°	127.0	123.0	125.0	122.0	116.0	114.0	110.0	114.0	112.0	109.0	108.0
122.5°	121.0	117.0	118.0	114.0	108.0	105.0	102.0	104.0	103.0	100.0	99.0
125°	113.0	109.0	109.0	105.0	98.0	96.0	93.0	94.0	93.0	92.0	91.0
127.5°	104.0	101.0	99.0	95.0	89.0	85.0	83.0	84.0	84.0	83.0	82.0
130°	94.0	91.0	87.0	83.0	78.0	75.0	72.0	74.0	74.0	74.0	74.0
132.5°	82.0	79.0	75.0	71.0	66.0	64.0	61.0	63.0	64.0	65.0	64.0
135°	68.0	66.0	62.0	58.0	54.0	51.0	50.0	52.0	54.0	54.0	53.0
137.5°	53.0	51.0	49.0	46.0	42.0	40.0	39.0	41.0	43.0	43.0	42.0
140°	40.0	40.0	38.0	35.0	31.0	30.0	30.0	31.0	32.0	32.0	31.0
142.5°	31.0	31.0	29.0	27.0	24.0	23.0	23.0	24.0	25.0	25.0	24.0
145°	24.0	24.0	22.0	20.0	18.0	17.0	17.0	18.0	19.0	19.0	18.0
147.5°	18.0	17.0	15.0	14.0	12.0	12.0	12.0	12.0	13.0	13.0	13.0
150°	10.0	10.0	9.0	7.0	6.0	6.0	6.0	7.0	8.0	8.0	7.0
152.5°	2.0	2.0	2.0	2.0	1.0	0.0	1.0	1.0	1.0	1.0	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	1.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0
167.5°	0.0	0.0	0.0	1.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0
172.5°	0.0	0.0	1.0	1.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0
177.5°	0.0	0.0	1.0	1.0	0.0	1.0	0.0	1.0	1.0	0.0	0.0
180°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

(END OF REPORT)