

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: P314556

Luminaire Tested: **MPN-A6-D-U-SYM**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314556
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-A6-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: 5917 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.58')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B2 - U4 - G4

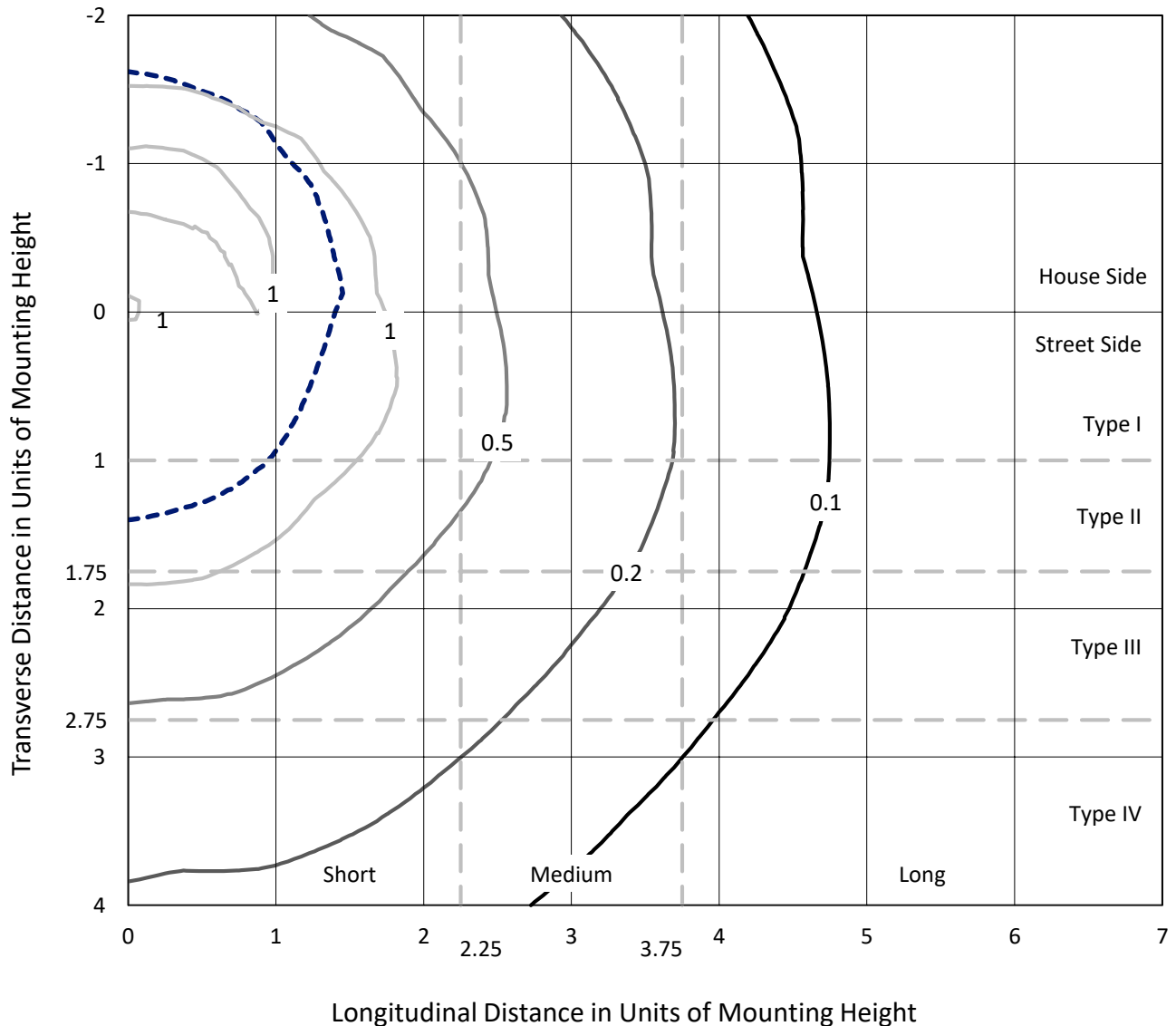
Input Watts (W): 64.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P314556
 CATALOG NUMBER: MPN-A6-D-U-SYM

Iso-Footcandle Lines of Horizontal Illumination

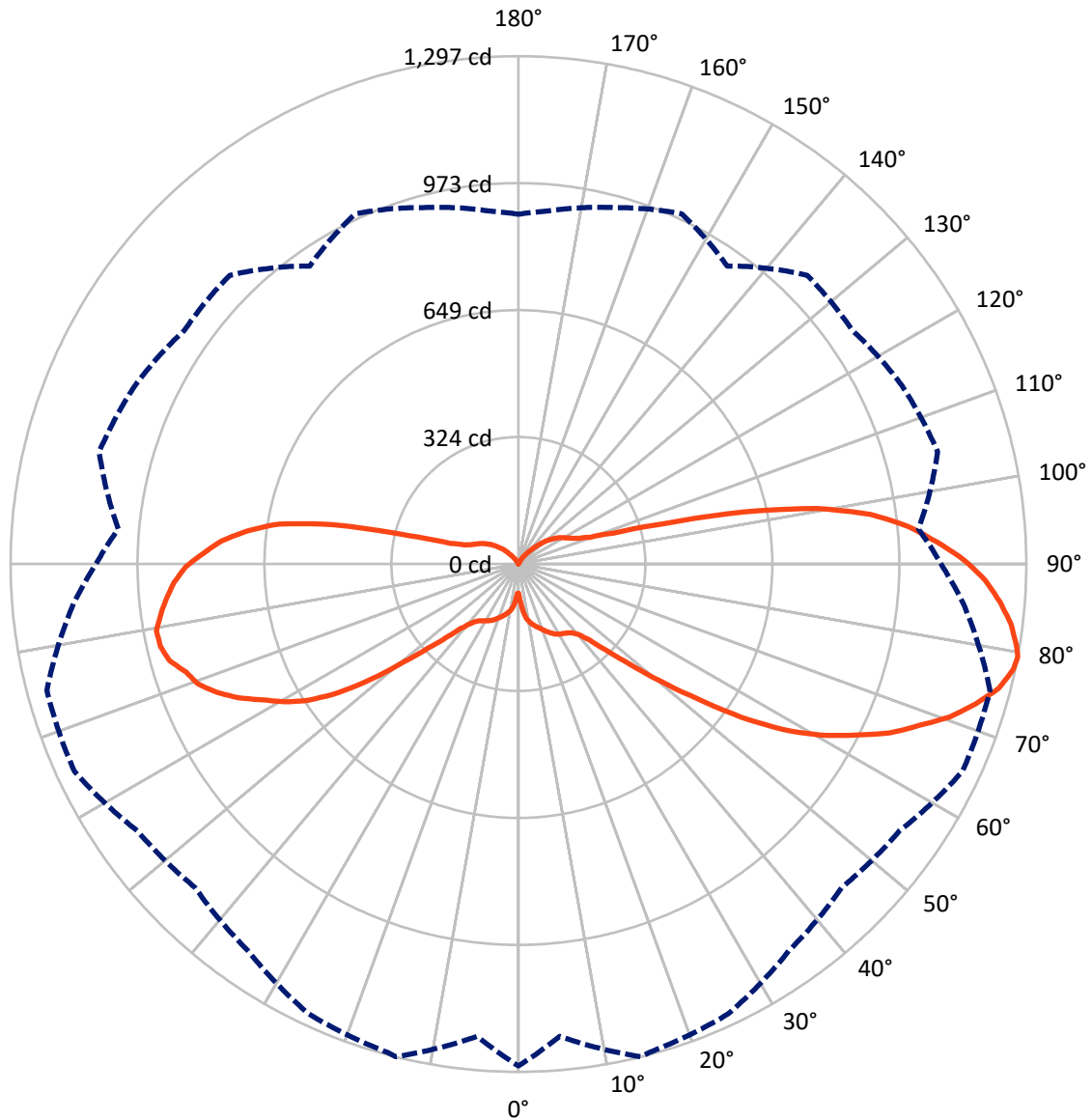
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P314556
CATALOG NUMBER: MPN-A6-D-U-SYM

Luminous Intensity Polar Plot



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

REPORT NUMBER: P314556

CATALOG NUMBER: MPN-A6-D-U-SYM

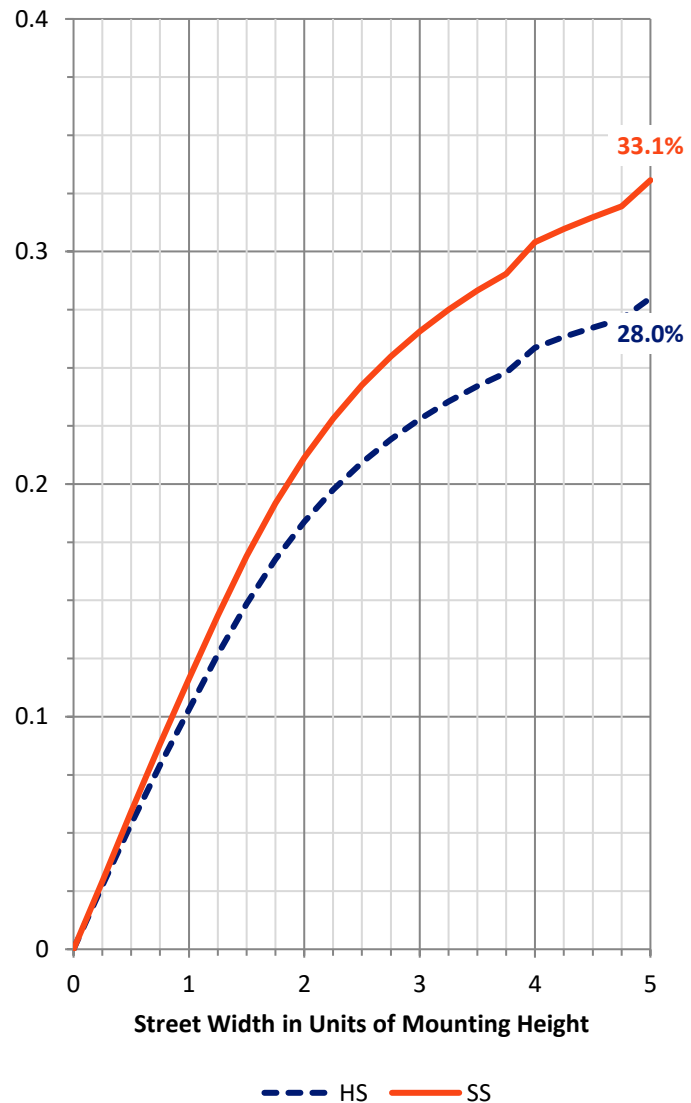
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1950.0	743.2	2693.3
	% Fixture	33.0	12.6	45.5
Street Side	Lumens	2332.8	891.0	3223.7
	% Fixture	39.4	15.1	54.5
Total	Lumens	4282.8	1634.2	5917.0
	% Fixture	72.4	27.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.0	0.2
10°-20°	42.4	0.7
20°-30°	82.7	1.4
30°-40°	126.0	2.1
40°-50°	237.6	4.0
50°-60°	573.4	9.7
60°-70°	912.7	15.4
70°-80°	1144.8	19.3
80°-90°	1152.4	19.5
90°-100°	944.7	16.0
100°-110°	399.0	6.7
110°-120°	138.2	2.3
120°-130°	92.1	1.6
130°-140°	45.9	0.8
140°-150°	13.5	0.2
150°-160°	0.7	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	4282.8	72.4
0°-180°	5917.0	100.0



REPORT NUMBER: P314556

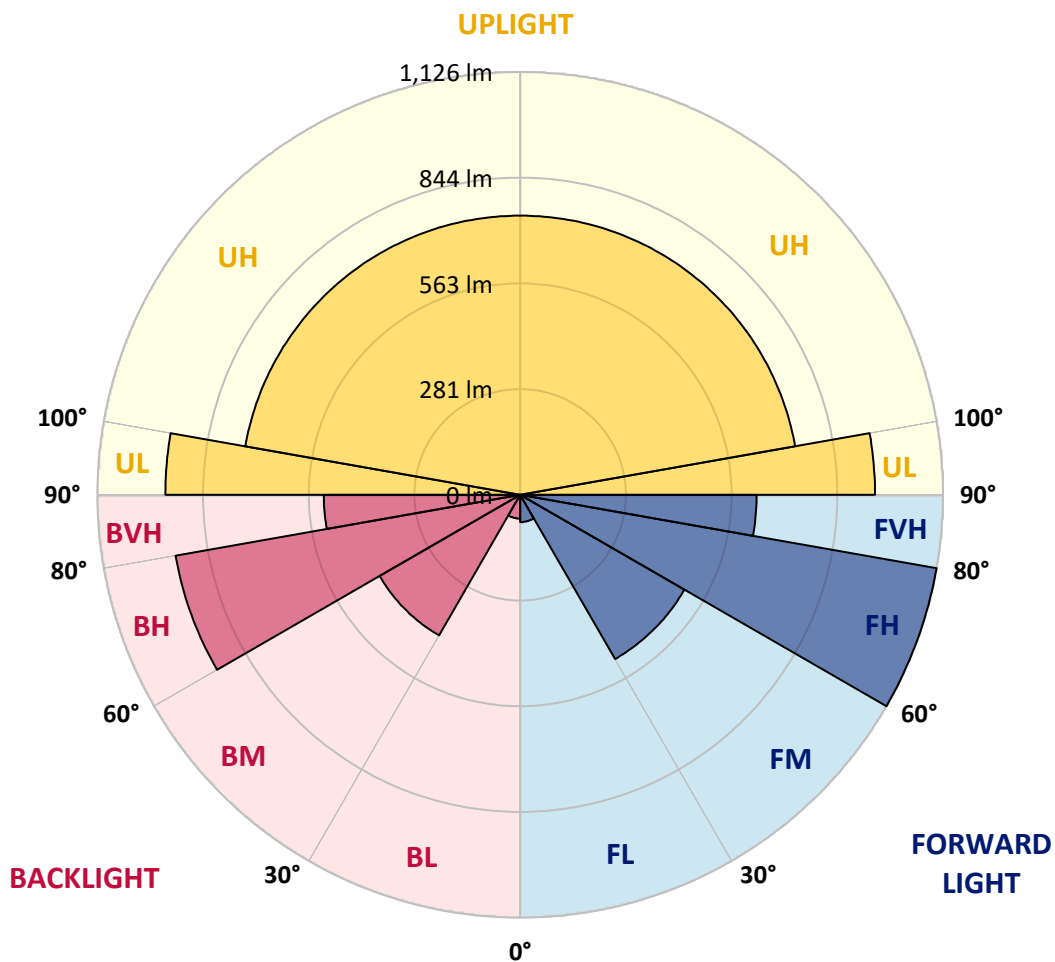
CATALOG NUMBER: MPN-A6-D-U-SYM

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	72.7	1.2			
FM (30°-60°)	504.9	8.5			
FH (60°-80°)	1125.7	19.0			G1/1800
FVH (80°-90°)	629.5	10.6			G4/750
BL (0°-30°)	63.4	1.1	B0/110		
BM (30°-60°)	432.0	7.3	B1/1000		
BH (60°-80°)	931.8	15.7	B2/1000		G1/1800
BVH (80°-90°)	522.9	8.8			G4/750
UL (90°-100°)	944.7	16.0		U4/1000	
UH (100°-180°)	743.2	12.6		U4/1000	

BUG Rating: B2-U4-G4

Type V Short





REPORT NUMBER: P314556

CATALOG NUMBER: MPN-A6-D-U-SYM

CANDELA DISTRIBUTION (FULL):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
0°	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
2.5°	99.6	96.7	96.7	97.7	97.7	93.9	91.0	91.0	89.1	87.2	83.4
5°	121.4	119.5	119.5	119.5	119.5	120.4	117.6	115.7	111.9	110.0	107.1
7.5°	138.4	137.5	137.5	138.4	137.5	136.5	133.7	133.7	129.9	128.0	125.2
10°	150.8	149.8	149.8	149.8	147.9	146.0	144.1	143.2	140.3	137.5	134.6
12.5°	157.4	156.4	157.4	157.4	155.5	151.7	150.8	149.8	147.9	145.1	141.3
15°	165.0	164.0	165.0	165.0	162.1	160.2	158.3	157.4	155.5	153.6	149.8
17.5°	172.6	171.6	171.6	171.6	170.7	166.9	165.0	165.9	163.1	160.2	157.4
20°	181.1	180.2	179.2	179.2	178.3	174.5	173.5	172.6	170.7	167.8	165.0
22.5°	190.6	188.7	187.7	187.7	186.8	183.0	183.0	182.0	179.2	176.4	174.5
25°	200.1	199.1	195.3	195.3	194.4	191.5	192.5	190.6	187.7	183.9	183.0
27.5°	207.6	205.8	202.0	202.0	201.0	198.2	199.1	197.2	193.4	190.6	189.6
30°	212.4	211.4	207.6	207.6	204.8	203.9	203.9	201.0	197.2	194.4	195.3
32.5°	215.2	215.2	211.4	210.5	208.6	207.6	206.7	204.8	200.1	197.2	198.2
35°	220.0	219.0	216.2	215.2	212.4	212.4	210.5	207.6	202.0	201.0	202.0
37.5°	225.7	224.7	222.8	221.9	217.1	219.0	216.2	214.3	208.6	207.6	206.7
40°	238.9	238.9	236.1	236.1	230.4	235.1	232.3	233.2	227.6	226.6	222.8
42.5°	263.6	263.6	264.5	265.5	260.7	265.5	264.5	269.3	264.5	260.7	255.1
45°	311.9	308.2	313.8	311.9	309.1	313.8	311.9	318.6	316.7	311.9	306.3
47.5°	371.7	379.3	380.2	382.1	376.4	382.1	380.2	387.8	391.6	385.9	370.7
50°	454.2	461.8	470.3	470.3	465.6	467.4	466.5	477.9	482.6	483.6	462.7
52.5°	550.9	558.5	569.8	576.5	568.9	574.6	576.5	598.3	613.5	611.6	575.5
55°	664.7	676.0	690.3	694.1	680.8	684.6	686.5	714.0	744.3	740.5	694.1
57.5°	775.6	786.0	798.4	805.0	788.9	784.1	769.0	801.2	840.1	838.2	769.9
60°	866.6	874.2	887.5	894.1	878.0	868.5	836.3	870.4	915.0	917.8	838.2
62.5°	947.2	951.0	962.4	969.0	951.0	940.6	900.8	936.8	980.4	984.2	897.9
65°	1018.3	1012.6	1041.1	1043.0	1017.4	1001.3	963.3	1002.2	1043.9	1046.8	949.1
67.5°	1081.9	1070.5	1101.8	1108.4	1080.0	1055.3	1019.3	1048.7	1094.2	1092.3	1006.0
70°	1138.8	1123.6	1169.1	1172.9	1135.0	1101.8	1080.9	1098.0	1149.2	1150.1	1055.3
72.5°	1196.6	1168.1	1221.2	1222.2	1190.0	1141.6	1116.0	1137.8	1188.1	1183.3	1094.2
75°	1242.1	1191.8	1267.7	1263.9	1234.5	1175.7	1151.1	1168.1	1227.9	1226.0	1120.7
77.5°	1285.7	1213.7	1292.4	1289.5	1263.0	1199.4	1169.1	1192.8	1249.7	1248.7	1144.4
79°	1281.9	1210.8	1297.1	1291.4	1267.7	1205.1	1168.1	1188.1	1251.6	1246.8	1139.7
80°	1278.1	1202.3	1290.5	1285.7	1260.1	1198.5	1154.9	1171.0	1234.5	1231.7	1124.5
82.5°	1251.6	1181.4	1267.7	1261.1	1239.3	1183.3	1141.6	1156.8	1231.7	1222.2	1110.3
85°	1215.6	1149.2	1233.6	1227.9	1207.0	1153.0	1104.6	1116.9	1183.3	1181.4	1077.1
87.5°	1169.1	1108.4	1192.8	1187.1	1168.1	1118.8	1070.5	1084.7	1152.0	1151.1	1041.1
90°	1124.5	1065.7	1138.8	1136.9	1117.9	1072.4	1030.7	1052.5	1121.7	1117.9	1008.9
92.5°	1057.2	1004.1	1070.5	1071.4	1053.4	1015.5	976.6	994.6	1048.7	1047.7	947.2
95°	988.9	939.6	1000.3	1000.3	983.3	950.1	910.2	923.5	976.6	985.1	888.4
97.5°	898.9	855.2	909.3	911.2	897.9	869.5	835.3	852.4	903.6	912.1	824.0
100°	759.5	730.1	777.5	782.2	771.8	754.7	731.0	755.7	800.3	809.7	732.9
102.5°	555.6	547.1	588.8	586.9	583.1	578.4	572.7	586.0	615.4	629.6	550.9
105°	377.4	363.1	385.0	384.0	376.4	364.1	349.9	348.9	356.5	350.8	311.9
107.5°	254.1	248.4	257.0	257.9	252.2	241.8	228.5	227.6	234.2	230.4	209.5



REPORT NUMBER: P314556

CATALOG NUMBER: MPN-A6-D-U-SYM

CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	193.4	190.6	195.3	196.3	193.4	184.9	178.3	178.3	184.9	182.0	168.8
112.5°	167.8	165.9	168.8	168.8	166.9	158.3	154.6	157.4	163.1	162.1	150.8
115°	152.7	151.7	152.7	153.6	150.8	143.2	141.3	144.1	149.8	148.9	139.4
117.5°	142.2	141.3	141.3	142.2	139.4	132.7	131.8	134.6	140.3	139.4	130.8
120°	132.7	132.7	132.7	132.7	130.8	125.2	124.2	128.0	132.7	131.8	124.2
122.5°	123.3	123.3	123.3	123.3	121.4	117.6	117.6	121.4	125.2	124.2	117.6
125°	112.8	112.8	111.9	112.8	110.9	109.0	109.0	112.8	115.7	115.7	110.0
127.5°	102.4	102.4	100.5	101.5	99.6	98.6	99.6	103.4	106.2	106.2	102.4
130°	91.0	90.1	88.2	89.1	87.2	87.2	89.1	92.9	94.8	95.8	92.0
132.5°	77.7	76.8	74.9	74.9	74.9	74.9	76.8	79.6	82.5	82.5	80.6
135°	64.5	63.5	61.6	61.6	61.6	60.7	63.5	66.4	68.3	68.3	66.4
137.5°	50.3	50.3	48.4	49.3	48.4	47.4	49.3	51.2	52.1	53.1	51.2
140°	39.8	39.8	38.9	37.9	37.0	36.0	37.0	37.9	38.9	39.8	38.9
142.5°	31.3	31.3	30.3	30.3	29.4	28.4	28.4	29.4	31.3	31.3	30.3
145°	23.7	23.7	23.7	22.8	21.8	21.8	21.8	22.8	23.7	23.7	23.7
147.5°	17.1	16.1	16.1	16.1	15.2	15.2	16.1	16.1	17.1	17.1	17.1
150°	8.5	8.5	8.5	8.5	8.5	8.5	9.5	9.5	10.4	10.4	9.5
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



REPORT NUMBER: P314556

CATALOG NUMBER: MPN-A6-D-U-SYM

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
2.5°	82.5	81.5	79.6	80.6	77.7	76.8	75.9	74.9	74.9	74.9	74.0
5°	105.2	103.4	98.6	96.7	96.7	94.8	94.8	93.9	93.9	93.9	93.9
7.5°	123.3	122.3	117.6	113.8	111.9	110.9	110.9	110.0	110.0	109.0	108.1
10°	132.7	130.8	128.0	126.1	124.2	122.3	120.4	121.4	120.4	118.5	118.5
12.5°	140.3	138.4	135.6	133.7	131.8	129.0	128.0	128.0	127.1	124.2	124.2
15°	147.9	146.0	144.1	141.3	139.4	136.5	134.6	134.6	133.7	130.8	129.9
17.5°	155.5	154.6	151.7	148.9	147.0	144.1	141.3	140.3	139.4	137.5	136.5
20°	164.0	162.1	159.3	156.4	153.6	151.7	148.9	146.0	145.1	144.1	143.2
22.5°	173.5	170.7	167.8	164.0	161.2	160.2	155.5	152.7	151.7	149.8	149.8
25°	182.0	178.3	175.4	172.6	168.8	167.8	163.1	159.3	157.4	156.4	156.4
27.5°	188.7	184.9	182.0	179.2	175.4	174.5	168.8	165.0	162.1	162.1	163.1
30°	193.4	190.6	187.7	183.9	182.0	181.1	174.5	169.7	166.9	167.8	167.8
32.5°	197.2	194.4	191.5	187.7	185.8	184.9	179.2	173.5	170.7	171.6	171.6
35°	200.1	198.2	195.3	191.5	190.6	188.7	183.0	177.3	175.4	177.3	176.4
37.5°	205.8	202.9	200.1	195.3	197.2	194.4	189.6	183.9	183.9	186.8	185.8
40°	220.0	216.2	212.4	206.7	207.6	206.7	203.9	199.1	199.1	202.9	202.0
42.5°	249.4	243.7	237.0	229.5	229.5	227.6	223.8	221.9	222.8	225.7	225.7
45°	293.9	283.5	278.8	269.3	267.4	265.5	261.7	257.9	263.6	262.6	264.5
47.5°	357.5	343.2	337.5	325.2	323.3	322.4	316.7	312.9	314.8	316.7	321.4
50°	443.7	422.9	416.2	403.9	401.1	397.3	385.9	381.2	385.0	387.8	391.6
52.5°	556.6	520.5	518.6	507.3	491.2	497.8	482.6	475.0	477.9	476.9	481.7
55°	668.5	626.7	631.5	616.3	594.5	602.1	572.7	571.7	567.0	563.2	565.1
57.5°	746.2	705.4	724.4	705.4	677.9	685.5	646.7	641.9	640.0	628.6	624.8
60°	805.9	764.2	792.7	766.1	735.8	755.7	700.7	704.5	695.0	682.7	674.1
62.5°	859.0	816.4	850.5	820.2	787.0	807.8	746.2	758.5	739.6	729.1	714.0
65°	909.3	869.5	904.6	877.1	832.5	861.9	791.7	814.5	794.6	775.6	761.4
67.5°	957.7	918.8	959.5	932.1	883.7	912.1	826.8	860.9	840.1	819.2	802.2
70°	998.4	957.7	1005.1	979.5	927.3	946.3	844.8	905.5	876.1	857.1	833.4
72.5°	1036.3	988.9	1047.7	1024.0	969.0	985.1	871.4	940.6	894.1	876.1	859.0
75°	1061.0	1008.9	1082.8	1055.3	1010.7	1019.3	903.6	968.1	927.3	897.9	884.6
77.5°	1083.8	1026.9	1104.6	1072.4	1031.6	1036.3	924.5	987.0	941.5	908.3	891.3
79°	1079.0	1025.9	1108.4	1080.0	1041.1	1043.0	929.2	987.0	942.5	905.5	893.2
80°	1067.6	1017.4	1098.9	1066.7	1027.8	1030.7	924.5	979.5	945.3	895.1	883.7
82.5°	1055.3	1003.2	1084.7	1055.3	1016.4	1013.6	917.8	968.1	926.4	885.6	873.3
85°	1023.1	977.6	1054.4	1025.0	992.7	988.0	897.0	943.4	907.4	856.2	845.8
87.5°	992.7	948.2	1025.9	997.5	966.2	962.4	879.9	926.4	885.6	830.6	824.9
90°	959.5	914.0	987.0	958.6	923.5	916.9	842.0	888.4	855.2	802.2	796.5
92.5°	899.8	859.0	928.3	903.6	874.2	869.5	797.4	840.1	808.8	761.4	755.7
95°	845.8	806.9	868.5	847.7	820.2	819.2	748.1	793.6	763.3	720.6	717.8
97.5°	787.0	749.1	802.2	783.2	755.7	752.8	686.5	727.2	700.7	661.8	659.0
100°	694.1	661.8	696.9	682.7	650.4	659.0	600.2	643.8	622.9	588.8	582.2
102.5°	520.5	494.9	506.3	494.9	466.5	478.8	448.5	494.9	486.4	467.4	461.8
105°	294.9	287.3	294.9	291.1	280.7	277.8	262.6	293.9	287.3	280.7	276.9
107.5°	199.1	193.4	200.1	197.2	184.9	183.9	172.6	186.8	180.2	174.5	171.6



REPORT NUMBER: P314556

CATALOG NUMBER: MPN-A6-D-U-SYM

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	162.1	157.4	162.1	161.2	152.7	149.8	141.3	150.8	146.0	141.3	139.4
112.5°	145.1	141.3	145.1	144.1	135.6	134.6	128.0	135.6	131.8	128.0	127.1
115°	134.6	130.8	133.7	132.7	125.2	124.2	118.5	125.2	122.3	118.5	117.6
117.5°	127.1	123.3	125.2	123.3	117.6	115.7	110.9	116.6	114.7	110.0	109.0
120°	120.4	116.6	118.5	115.7	110.0	108.1	104.3	108.1	106.2	103.4	102.4
122.5°	114.7	110.9	111.9	108.1	102.4	99.6	96.7	98.6	97.7	94.8	93.9
125°	107.1	103.4	103.4	99.6	92.9	91.0	88.2	89.1	88.2	87.2	86.3
127.5°	98.6	95.8	93.9	90.1	84.4	80.6	78.7	79.6	79.6	78.7	77.7
130°	89.1	86.3	82.5	78.7	74.0	71.1	68.3	70.2	70.2	70.2	70.2
132.5°	77.7	74.9	71.1	67.3	62.6	60.7	57.8	59.7	60.7	61.6	60.7
135°	64.5	62.6	58.8	55.0	51.2	48.4	47.4	49.3	51.2	51.2	50.3
137.5°	50.3	48.4	46.5	43.6	39.8	37.9	37.0	38.9	40.8	40.8	39.8
140°	37.9	37.9	36.0	33.2	29.4	28.4	28.4	29.4	30.3	30.3	29.4
142.5°	29.4	29.4	27.5	25.6	22.8	21.8	21.8	22.8	23.7	23.7	22.8
145°	22.8	22.8	20.9	19.0	17.1	16.1	16.1	17.1	18.0	18.0	17.1
147.5°	17.1	16.1	14.2	13.3	11.4	11.4	11.4	11.4	12.3	12.3	12.3
150°	9.5	9.5	8.5	6.6	5.7	5.7	5.7	6.6	7.6	7.6	6.6
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)