

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: P314550

Luminaire Tested: **MPN-A6-D-U-SYM-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314550
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-7030
Description: NEW HAVEN POST TOP LUMINAIRE
(1) 70 CRI, 3000K LIGHT ENGINE. SYMMETRIC DISTRIBUTION.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5770 lumens
Efficiency: N/A
Efficacy: 90.0 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 (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

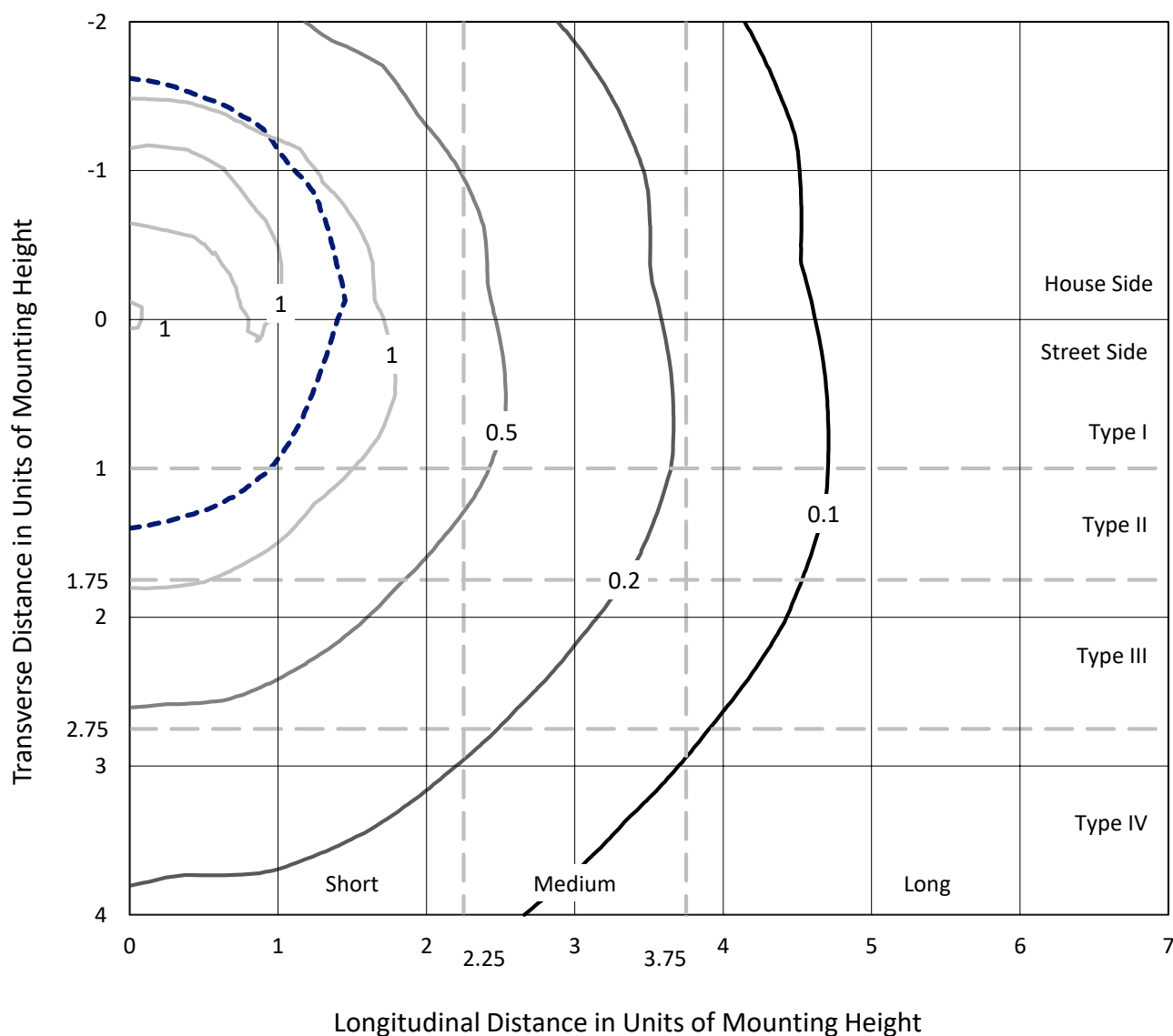


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

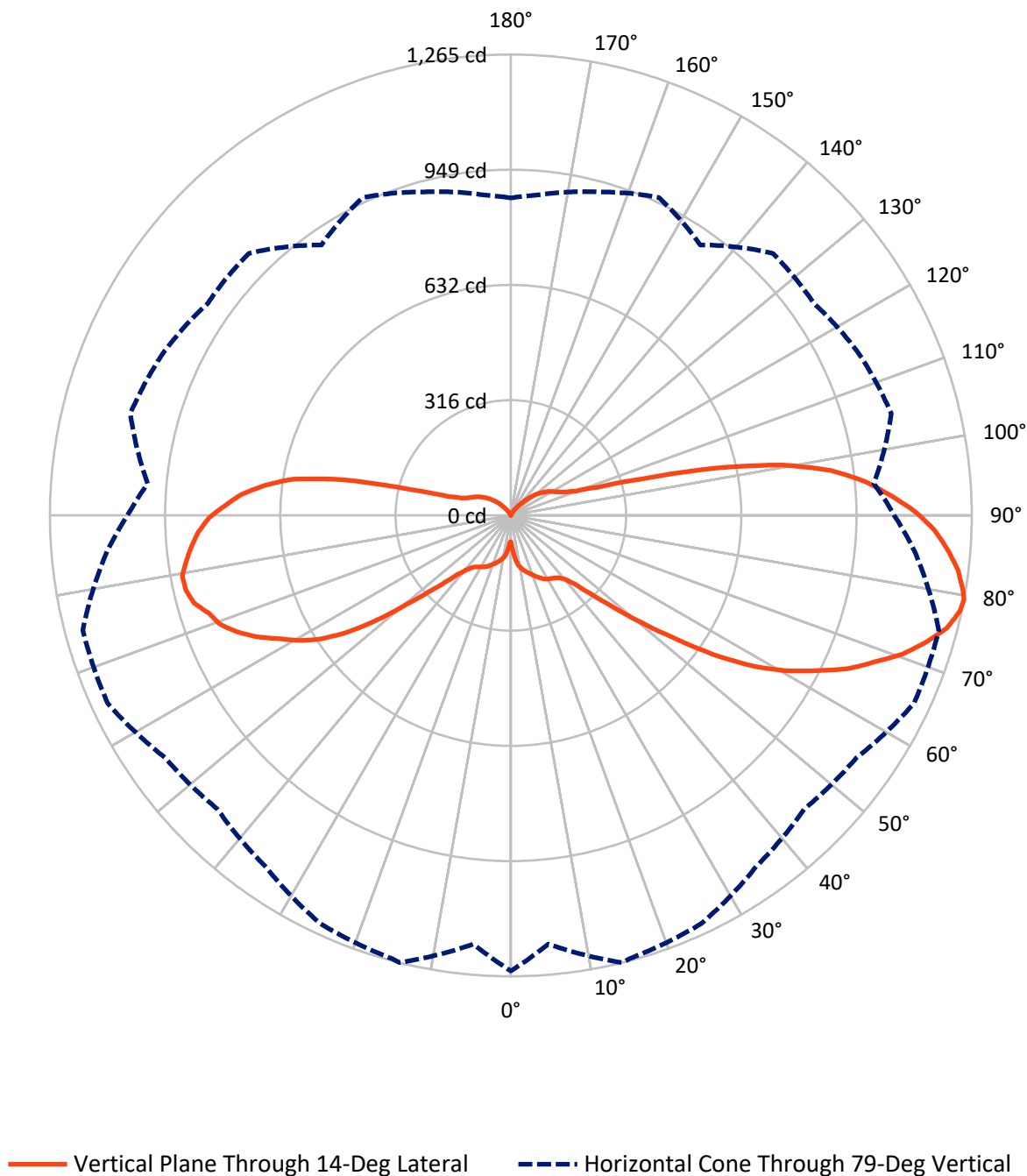


Based on 10 foot mounting height. Maximum calculated value = 1.5 fc
Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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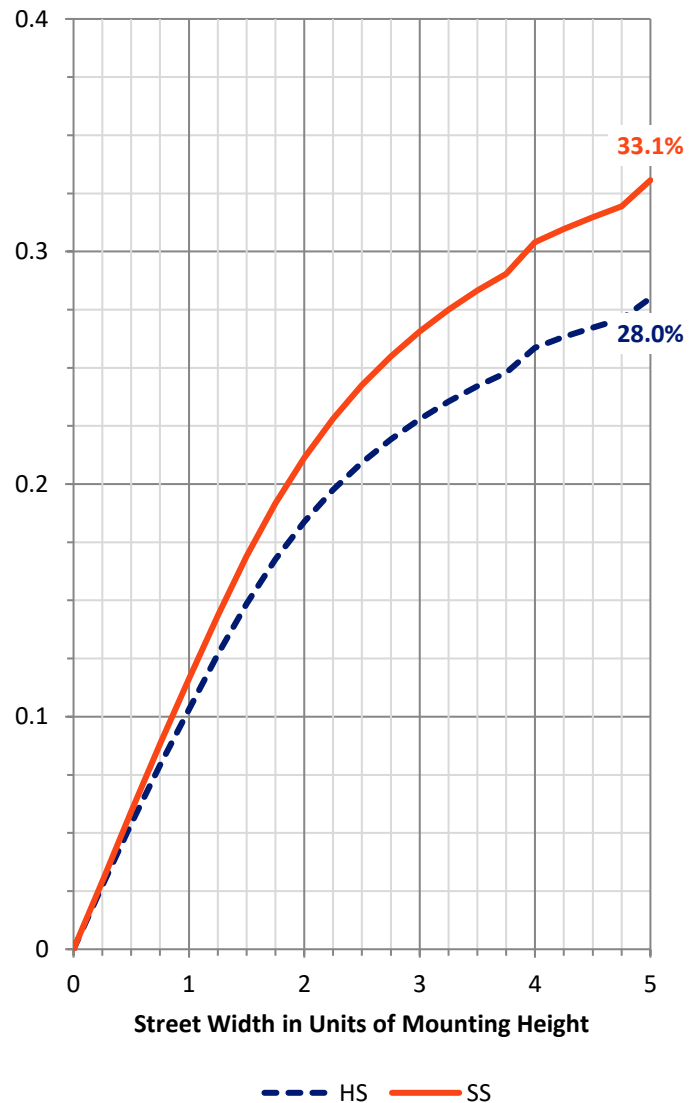
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1901.6	724.8	2626.4
	% Fixture	33.0	12.6	45.5
Street Side	Lumens	2274.8	868.8	3143.6
	% Fixture	39.4	15.1	54.5
Total	Lumens	4176.4	1593.6	5770.0
	% Fixture	72.4	27.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.7	0.2
10°-20°	41.4	0.7
20°-30°	80.6	1.4
30°-40°	122.8	2.1
40°-50°	231.7	4.0
50°-60°	559.1	9.7
60°-70°	890.1	15.4
70°-80°	1116.3	19.3
80°-90°	1123.7	19.5
90°-100°	921.3	16.0
100°-110°	389.1	6.7
110°-120°	134.7	2.3
120°-130°	89.8	1.6
130°-140°	44.7	0.8
140°-150°	13.1	0.2
150°-160°	0.7	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	4176.4	72.4
0°-180°	5770.0	100.0

Coefficient of Utilization



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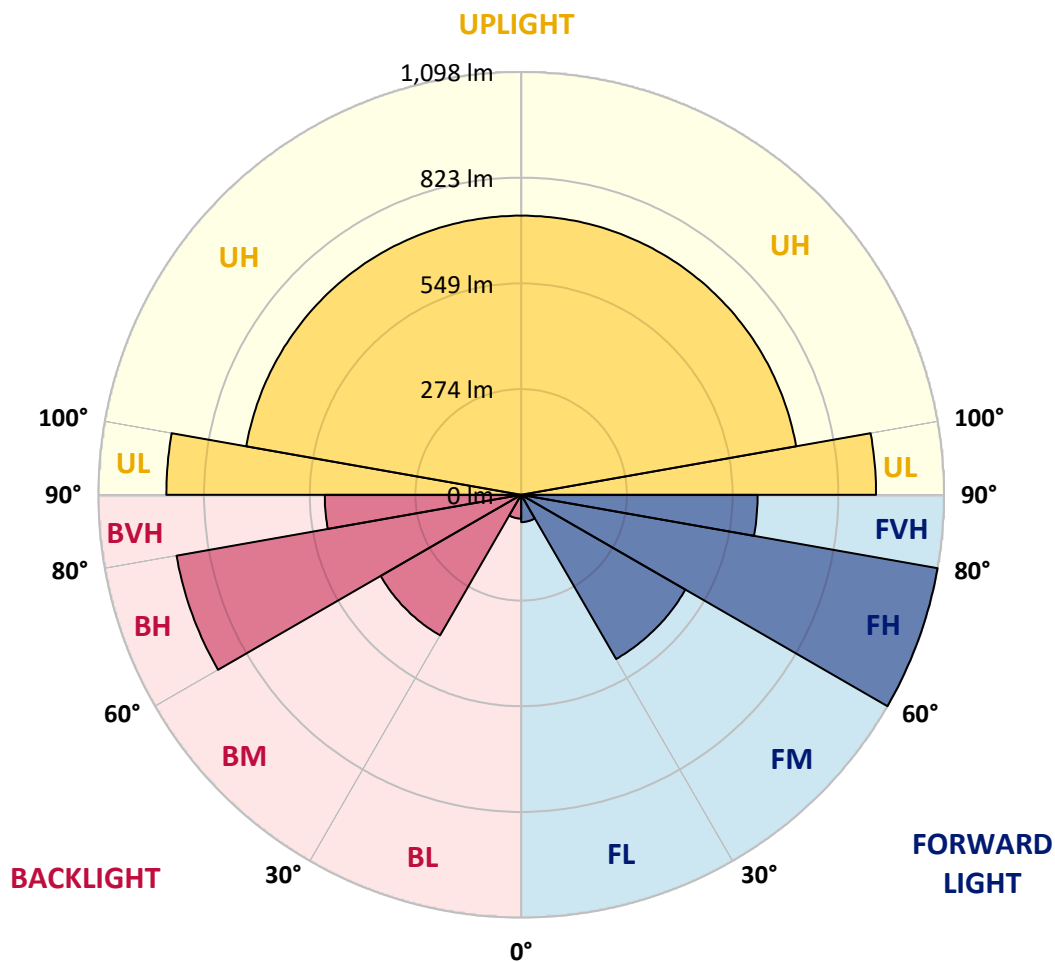
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	70.9	1.2			
FM	(30°-60°)	492.4	8.5			
FH	(60°-80°)	1097.7	19.0			G1/1800
FVH	(80°-90°)	613.8	10.6			G4/750
BL	(0°-30°)	61.8	1.1	B0/110		
BM	(30°-60°)	421.3	7.3	B1/1000		
BH	(60°-80°)	908.6	15.7	B2/1000		G1/1800
BVH	(80°-90°)	509.9	8.8			G4/750
UL	(90°-100°)	921.3	16.0		U4/1000	
UH	(100°-180°)	724.8	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°	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
2.5°	97.1	94.3	94.3	95.2	95.2	91.5	88.8	88.8	86.9	85.1	81.4
5°	118.4	116.5	116.5	116.5	116.5	117.4	114.7	112.8	109.1	107.3	104.5
7.5°	135.0	134.1	134.1	135.0	134.1	133.1	130.4	130.4	126.7	124.8	122.0
10°	147.0	146.1	146.1	146.1	144.2	142.4	140.5	139.6	136.8	134.1	131.3
12.5°	153.5	152.6	153.5	153.5	151.6	147.9	147.0	146.1	144.2	141.5	137.8
15°	160.9	160.0	160.9	160.9	158.1	156.3	154.4	153.5	151.6	149.8	146.1
17.5°	168.3	167.4	167.4	167.4	166.4	162.7	160.9	161.8	159.0	156.3	153.5
20°	176.6	175.7	174.8	174.8	173.8	170.1	169.2	168.3	166.4	163.7	160.9
22.5°	185.8	184.0	183.1	183.1	182.1	178.5	178.5	177.5	174.8	172.0	170.1
25°	195.1	194.2	190.5	190.5	189.5	186.8	187.7	185.8	183.1	179.4	178.5
27.5°	202.5	200.6	197.9	196.9	196.0	193.2	194.2	192.3	188.6	185.8	184.9
30°	207.1	206.2	202.5	202.5	199.7	198.8	198.8	196.0	192.3	189.5	190.5
32.5°	209.9	209.9	206.2	205.3	203.4	202.5	201.6	199.7	195.1	192.3	193.2
35°	214.5	213.6	210.8	209.9	207.1	207.1	205.3	202.5	196.9	196.0	196.9
37.5°	220.1	219.1	217.3	216.4	211.7	213.6	210.8	209.0	203.4	202.5	201.6
40°	233.0	233.0	230.2	230.2	224.7	229.3	226.5	227.5	221.9	221.0	217.3
42.5°	257.0	257.0	258.0	258.9	254.3	258.9	258.0	262.6	258.0	254.3	248.7
45°	304.2	300.5	306.0	304.2	301.4	306.0	304.2	310.7	308.8	304.2	298.6
47.5°	362.4	369.8	370.8	372.6	367.1	372.6	370.8	378.2	381.9	376.3	361.5
50°	442.9	450.3	458.6	458.6	454.0	455.8	454.9	466.0	470.6	471.6	451.2
52.5°	537.2	544.6	555.7	562.2	554.8	560.3	562.2	583.4	598.2	596.4	561.2
55°	648.2	659.2	673.1	676.8	663.9	667.6	669.4	696.2	725.8	722.1	676.8
57.5°	756.3	766.5	778.5	785.0	769.3	764.7	749.9	781.3	819.2	817.4	750.8
60°	845.1	852.5	865.4	871.9	856.2	846.9	815.5	848.8	892.3	895.0	817.4
62.5°	923.7	927.4	938.5	945.0	927.4	917.2	878.4	913.5	956.0	959.7	875.6
65°	993.0	987.5	1015.2	1017.1	992.1	976.4	939.4	977.3	1018.0	1020.8	925.5
67.5°	1055.0	1043.9	1074.4	1080.9	1053.1	1029.1	994.0	1022.6	1067.0	1065.2	981.0
70°	1110.5	1095.7	1140.0	1143.7	1106.8	1074.4	1054.1	1070.7	1120.6	1121.6	1029.1
72.5°	1166.9	1139.1	1190.9	1191.8	1160.4	1113.2	1088.3	1109.5	1158.5	1153.9	1067.0
75°	1211.2	1162.2	1236.2	1232.5	1203.8	1146.5	1122.5	1139.1	1197.4	1195.5	1092.9
77.5°	1253.8	1183.5	1260.2	1257.5	1231.6	1169.6	1140.0	1163.2	1218.6	1217.7	1116.0
79°	1250.1	1180.7	1264.9	1259.3	1236.2	1175.2	1139.1	1158.5	1220.5	1215.9	1111.4
80°	1246.4	1172.4	1258.4	1253.8	1228.8	1168.7	1126.2	1141.9	1203.8	1201.1	1096.6
82.5°	1220.5	1152.1	1236.2	1229.7	1208.5	1153.9	1113.2	1128.0	1201.1	1191.8	1082.7
85°	1185.4	1120.6	1202.9	1197.4	1177.0	1124.3	1077.2	1089.2	1153.9	1152.1	1050.4
87.5°	1140.0	1080.9	1163.2	1157.6	1139.1	1091.0	1043.9	1057.8	1123.4	1122.5	1015.2
90°	1096.6	1039.3	1110.5	1108.6	1090.1	1045.7	1005.1	1026.3	1093.8	1090.1	983.8
92.5°	1030.9	979.2	1043.9	1044.8	1027.2	990.3	952.4	969.9	1022.6	1021.7	923.7
95°	964.4	916.3	975.5	975.5	958.8	926.5	887.6	900.6	952.4	960.7	866.4
97.5°	876.5	834.0	886.7	888.6	875.6	847.9	814.6	831.2	881.2	889.5	803.5
100°	740.6	712.0	758.2	762.8	752.6	736.0	712.9	736.9	780.4	789.6	714.7
102.5°	541.8	533.5	574.2	572.3	568.6	564.0	558.5	571.4	600.1	613.9	537.2
105°	368.0	354.1	375.4	374.5	367.1	355.1	341.2	340.3	347.7	342.1	304.2
107.5°	247.8	242.2	250.6	251.5	245.9	235.8	222.8	221.9	228.4	224.7	204.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	188.6	185.8	190.5	191.4	188.6	180.3	173.8	173.8	180.3	177.5	164.6
112.5°	163.7	161.8	164.6	164.6	162.7	154.4	150.7	153.5	159.0	158.1	147.0
115°	148.9	147.9	148.9	149.8	147.0	139.6	137.8	140.5	146.1	145.2	135.9
117.5°	138.7	137.8	137.8	138.7	135.9	129.4	128.5	131.3	136.8	135.9	127.6
120°	129.4	129.4	129.4	129.4	127.6	122.0	121.1	124.8	129.4	128.5	121.1
122.5°	120.2	120.2	120.2	120.2	118.4	114.7	114.7	118.4	122.0	121.1	114.7
125°	110.0	110.0	109.1	110.0	108.2	106.3	106.3	110.0	112.8	112.8	107.3
127.5°	99.9	99.9	98.0	98.9	97.1	96.2	97.1	100.8	103.6	103.6	99.9
130°	88.8	87.8	86.0	86.9	85.1	85.1	86.9	90.6	92.5	93.4	89.7
132.5°	75.8	74.9	73.0	73.0	73.0	73.0	74.9	77.7	80.4	80.4	78.6
135°	62.9	61.9	60.1	60.1	60.1	59.2	61.9	64.7	66.6	66.6	64.7
137.5°	49.0	49.0	47.2	48.1	47.2	46.2	48.1	49.9	50.9	51.8	49.9
140°	38.8	38.8	37.9	37.0	36.1	35.1	36.1	37.0	37.9	38.8	37.9
142.5°	30.5	30.5	29.6	29.6	28.7	27.7	27.7	28.7	30.5	30.5	29.6
145°	23.1	23.1	23.1	22.2	21.3	21.3	21.3	22.2	23.1	23.1	23.1
147.5°	16.6	15.7	15.7	15.7	14.8	14.8	15.7	15.7	16.6	16.6	16.6
150°	8.3	8.3	8.3	8.3	8.3	8.3	9.2	9.2	10.2	10.2	9.2
152.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8
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°	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
2.5°	80.4	79.5	77.7	78.6	75.8	74.9	74.0	73.0	73.0	73.0	72.1
5°	102.6	100.8	96.2	94.3	94.3	92.5	92.5	91.5	91.5	91.5	91.5
7.5°	120.2	119.3	114.7	111.0	109.1	108.2	108.2	107.3	107.3	106.3	105.4
10°	129.4	127.6	124.8	123.0	121.1	119.3	117.4	118.4	117.4	115.6	115.6
12.5°	136.8	135.0	132.2	130.4	128.5	125.7	124.8	124.8	123.9	121.1	121.1
15°	144.2	142.4	140.5	137.8	135.9	133.1	131.3	131.3	130.4	127.6	126.7
17.5°	151.6	150.7	147.9	145.2	143.3	140.5	137.8	136.8	135.9	134.1	133.1
20°	160.0	158.1	155.3	152.6	149.8	147.9	145.2	142.4	141.5	140.5	139.6
22.5°	169.2	166.4	163.7	160.0	157.2	156.3	151.6	148.9	147.9	146.1	146.1
25°	177.5	173.8	171.1	168.3	164.6	163.7	159.0	155.3	153.5	152.6	152.6
27.5°	184.0	180.3	177.5	174.8	171.1	170.1	164.6	160.9	158.1	158.1	159.0
30°	188.6	185.8	183.1	179.4	177.5	176.6	170.1	165.5	162.7	163.7	163.7
32.5°	192.3	189.5	186.8	183.1	181.2	180.3	174.8	169.2	166.4	167.4	167.4
35°	195.1	193.2	190.5	186.8	185.8	184.0	178.5	172.9	171.1	172.9	172.0
37.5°	200.6	197.9	195.1	190.5	192.3	189.5	184.9	179.4	179.4	182.1	181.2
40°	214.5	210.8	207.1	201.6	202.5	201.6	198.8	194.2	194.2	197.9	196.9
42.5°	243.2	237.6	231.2	223.8	223.8	221.9	218.2	216.4	217.3	220.1	220.1
45°	286.6	276.5	271.8	262.6	260.7	258.9	255.2	251.5	257.0	256.1	258.0
47.5°	348.6	334.7	329.2	317.1	315.3	314.4	308.8	305.1	307.0	308.8	313.4
50°	432.7	412.4	405.9	393.9	391.1	387.4	376.3	371.7	375.4	378.2	381.9
52.5°	542.7	507.6	505.8	494.7	478.9	485.4	470.6	463.2	466.0	465.1	469.7
55°	651.9	611.2	615.8	601.0	579.7	587.1	558.5	557.5	552.9	549.2	551.1
57.5°	727.7	687.9	706.4	687.9	661.1	668.5	630.6	626.0	624.1	613.0	609.3
60°	785.9	745.2	773.0	747.1	717.5	736.9	683.3	687.0	677.7	665.7	657.4
62.5°	837.7	796.1	829.4	799.8	767.4	787.8	727.7	739.7	721.2	711.0	696.2
65°	886.7	847.9	882.1	855.3	811.8	840.5	772.1	794.2	774.8	756.3	742.5
67.5°	933.9	895.9	935.7	908.9	861.7	889.5	806.3	839.5	819.2	798.9	782.2
70°	973.6	933.9	980.1	955.1	904.3	922.8	823.8	883.0	854.3	835.9	812.7
72.5°	1010.6	964.4	1021.7	998.6	945.0	960.7	849.7	917.2	871.9	854.3	837.7
75°	1034.6	983.8	1055.9	1029.1	985.6	994.0	881.2	944.0	904.3	875.6	862.7
77.5°	1056.8	1001.4	1077.2	1045.7	1006.0	1010.6	901.5	962.5	918.1	885.8	869.1
79°	1052.2	1000.4	1080.9	1053.1	1015.2	1017.1	906.1	962.5	919.1	883.0	871.0
80°	1041.1	992.1	1071.6	1040.2	1002.3	1005.1	901.5	955.1	921.8	872.8	861.7
82.5°	1029.1	978.2	1057.8	1029.1	991.2	988.4	895.0	944.0	903.3	863.6	851.6
85°	997.7	953.3	1028.2	999.5	968.1	963.4	874.7	920.0	884.9	834.9	824.8
87.5°	968.1	924.6	1000.4	972.7	942.2	938.5	858.0	903.3	863.6	810.0	804.4
90°	935.7	891.3	962.5	934.8	900.6	894.1	821.1	866.4	834.0	782.2	776.7
92.5°	877.5	837.7	905.2	881.2	852.5	847.9	777.6	819.2	788.7	742.5	736.9
95°	824.8	786.8	846.9	826.6	799.8	798.9	729.5	773.9	744.3	702.7	699.9
97.5°	767.4	730.4	782.2	763.7	736.9	734.1	669.4	709.2	683.3	645.4	642.6
100°	676.8	645.4	679.6	665.7	634.3	642.6	585.3	627.8	607.5	574.2	567.7
102.5°	507.6	482.6	493.7	482.6	454.9	466.9	437.3	482.6	474.3	455.8	450.3
105°	287.6	280.2	287.6	283.9	273.7	270.9	256.1	286.6	280.2	273.7	270.0
107.5°	194.2	188.6	195.1	192.3	180.3	179.4	168.3	182.1	175.7	170.1	167.4



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CATALOG NUMBER: MPN-A6-D-U-SYM-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	158.1	153.5	158.1	157.2	148.9	146.1	137.8	147.0	142.4	137.8	135.9
112.5°	141.5	137.8	141.5	140.5	132.2	131.3	124.8	132.2	128.5	124.8	123.9
115°	131.3	127.6	130.4	129.4	122.0	121.1	115.6	122.0	119.3	115.6	114.7
117.5°	123.9	120.2	122.0	120.2	114.7	112.8	108.2	113.7	111.9	107.3	106.3
120°	117.4	113.7	115.6	112.8	107.3	105.4	101.7	105.4	103.6	100.8	99.9
122.5°	111.9	108.2	109.1	105.4	99.9	97.1	94.3	96.2	95.2	92.5	91.5
125°	104.5	100.8	100.8	97.1	90.6	88.8	86.0	86.9	86.0	85.1	84.1
127.5°	96.2	93.4	91.5	87.8	82.3	78.6	76.7	77.7	77.7	76.7	75.8
130°	86.9	84.1	80.4	76.7	72.1	69.3	66.6	68.4	68.4	68.4	68.4
132.5°	75.8	73.0	69.3	65.6	61.0	59.2	56.4	58.3	59.2	60.1	59.2
135°	62.9	61.0	57.3	53.6	49.9	47.2	46.2	48.1	49.9	49.9	49.0
137.5°	49.0	47.2	45.3	42.5	38.8	37.0	36.1	37.9	39.8	39.8	38.8
140°	37.0	37.0	35.1	32.4	28.7	27.7	27.7	28.7	29.6	29.6	28.7
142.5°	28.7	28.7	26.8	25.0	22.2	21.3	21.3	22.2	23.1	23.1	22.2
145°	22.2	22.2	20.3	18.5	16.6	15.7	15.7	16.6	17.6	17.6	16.6
147.5°	16.6	15.7	13.9	12.9	11.1	11.1	11.1	11.1	12.0	12.0	12.0
150°	9.2	9.2	8.3	6.5	5.5	5.5	5.5	6.5	7.4	7.4	6.5
152.5°	1.8	1.8	1.8	1.8	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)