

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: P314628

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314628
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1906-378-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: MPB-A6-D-U-SYM
Description: BRECKENRIDGE 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: 6167 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.58')
IES Classification: Type IV - 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



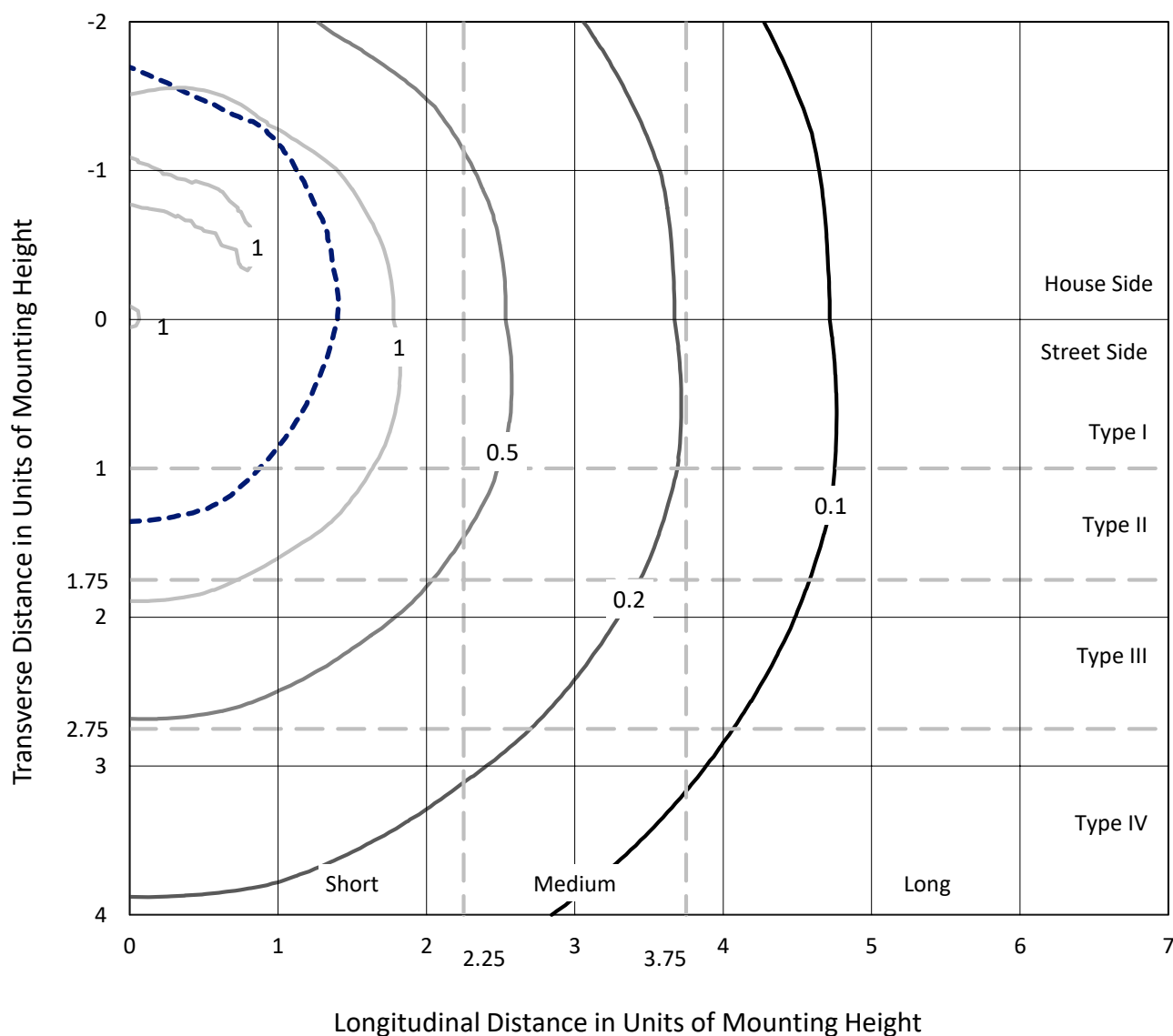
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

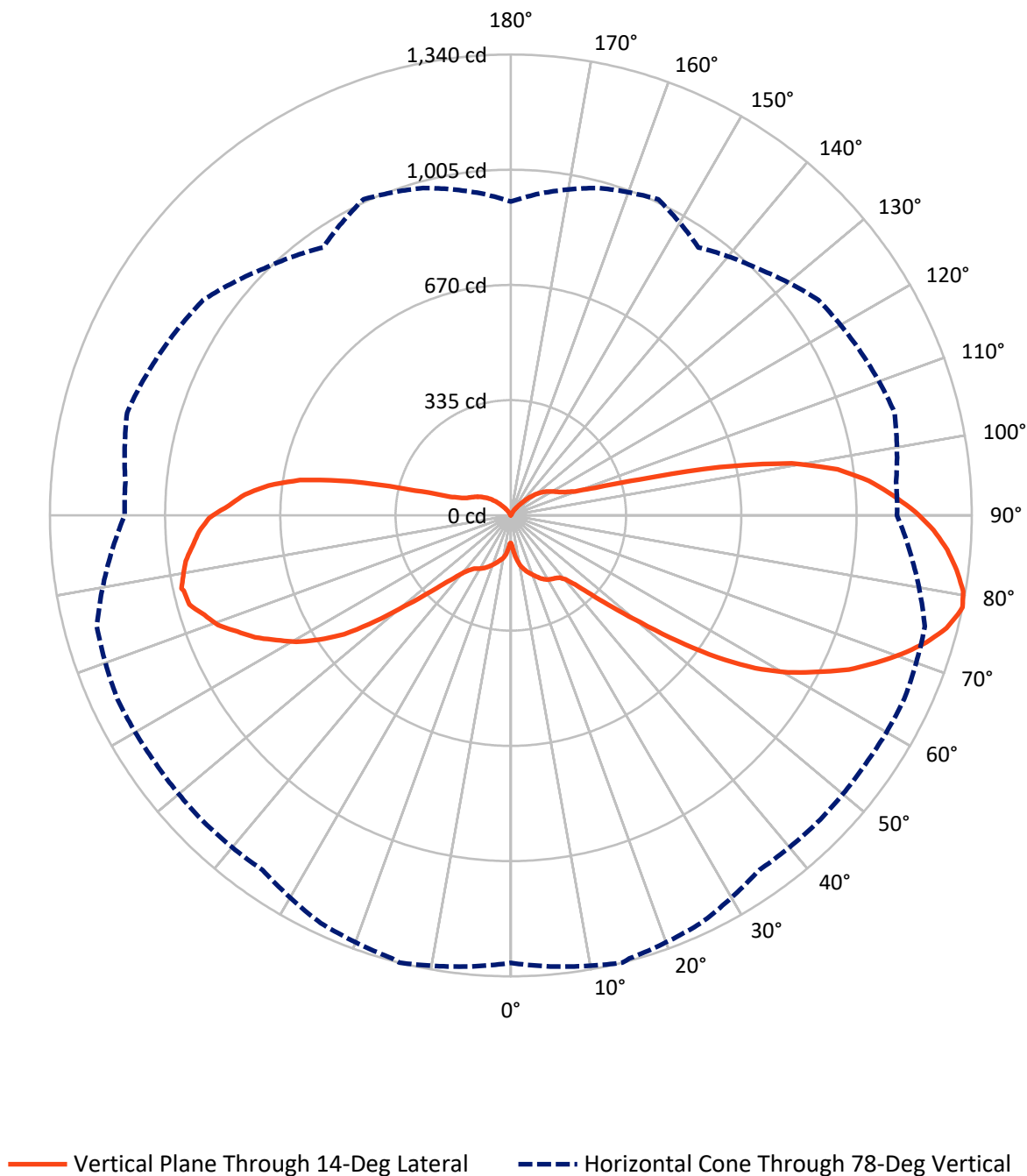


Based on 10 foot mounting height. Maximum calculated value = 1.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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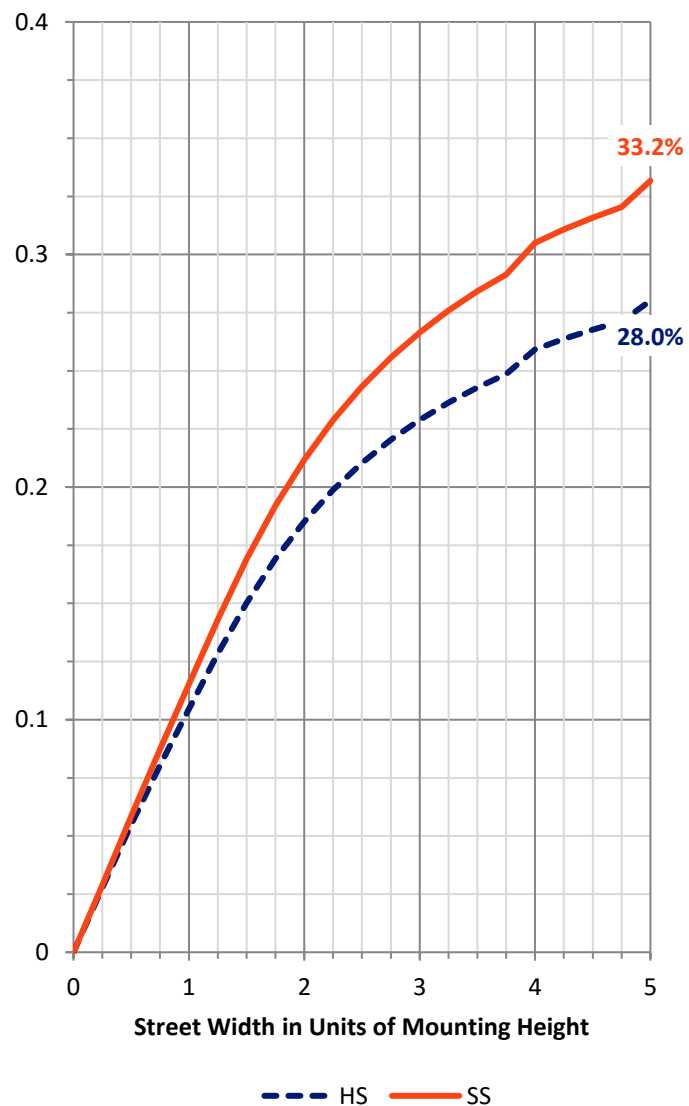
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2027.1	764.5	2791.6
	% Fixture	32.9	12.4	45.3
Street Side	Lumens	2440.0	935.4	3375.4
	% Fixture	39.6	15.2	54.7
Total	Lumens	4467.1	1699.9	6167.0
	% Fixture	72.4	27.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.0	0.2
10°-20°	44.0	0.7
20°-30°	86.3	1.4
30°-40°	131.9	2.1
40°-50°	250.1	4.1
50°-60°	603.2	9.8
60°-70°	954.7	15.5
70°-80°	1192.3	19.3
80°-90°	1193.5	19.4
90°-100°	980.7	15.9
100°-110°	415.3	6.7
110°-120°	144.6	2.3
120°-130°	96.4	1.6
130°-140°	48.1	0.8
140°-150°	14.2	0.2
150°-160°	0.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4467.1	72.4
0°-180°	6167.0	100.0

Coefficient of Utilization



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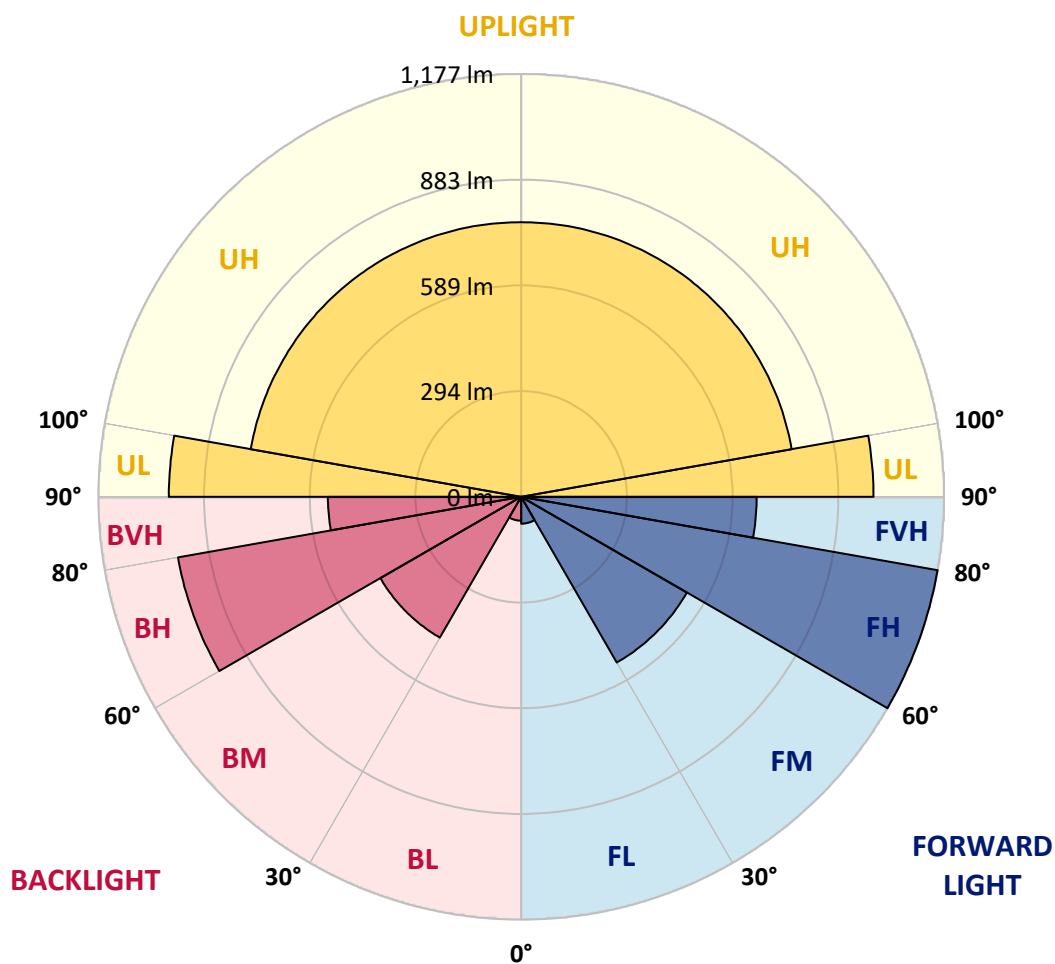
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	74.8	1.2			
FM	(30°-60°)	532.7	8.6			
FH	(60°-80°)	1177.0	19.1			G1/1800
FVH	(80°-90°)	655.5	10.6			G4/750
BL	(0°-30°)	66.5	1.1	B0/110		
BM	(30°-60°)	452.6	7.3	B1/1000		
BH	(60°-80°)	970.0	15.7	B2/1000		G2/1000
BVH	(80°-90°)	538.0	8.7			G4/750
UL	(90°-100°)	980.7	15.9		U4/1000	
UH	(100°-180°)	764.5	12.4		U4/1000	

BUG Rating: B2-U4-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
0°	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
2.5°	91.0	92.0	92.0	92.9	91.0	91.0	90.1	89.1	88.2	87.2	86.3
5°	113.8	113.8	113.8	113.8	111.9	112.8	111.9	110.0	108.1	108.1	106.2
7.5°	131.8	131.8	131.8	131.8	130.8	130.8	129.9	129.0	127.1	126.1	125.2
10°	145.1	146.0	147.0	147.0	146.0	145.1	143.2	142.2	141.3	139.4	136.5
12.5°	157.4	158.3	158.3	158.3	157.4	156.5	154.6	152.7	151.7	149.8	147.9
15°	167.8	167.8	167.8	166.9	165.9	165.0	163.1	162.1	160.2	158.3	156.5
17.5°	175.4	176.4	176.4	175.4	173.5	173.5	170.7	170.7	168.8	166.9	165.0
20°	184.9	184.9	184.9	183.9	183.0	182.1	179.2	178.3	177.3	175.4	173.5
22.5°	194.4	194.4	193.4	193.4	191.5	190.6	188.7	187.7	185.8	183.9	183.0
25°	204.8	204.8	202.9	202.9	201.0	199.1	197.2	196.3	194.4	193.4	192.5
27.5°	212.4	212.4	210.5	209.5	208.6	205.8	204.8	202.9	201.0	200.1	199.1
30°	219.0	218.1	216.2	216.2	214.3	211.4	209.5	207.7	205.8	205.8	205.8
32.5°	222.8	221.9	220.0	219.0	216.2	214.3	212.4	210.5	208.6	209.5	209.5
35°	226.6	226.6	223.8	222.8	220.0	217.1	214.3	212.4	211.4	212.4	213.3
37.5°	233.3	232.3	229.5	228.5	224.7	223.8	221.9	220.9	220.0	220.9	220.9
40°	247.5	247.5	244.6	243.7	240.8	241.8	240.8	241.8	239.9	241.8	238.9
42.5°	275.0	276.9	274.0	272.1	270.2	274.0	277.8	276.9	275.0	275.9	269.3
45°	323.3	327.1	328.1	325.2	319.5	330.0	335.7	336.6	331.9	329.0	318.6
47.5°	396.3	402.0	399.2	399.2	389.7	404.9	412.5	417.2	409.6	404.9	387.8
50°	488.3	497.8	488.3	492.1	475.0	501.6	513.9	516.8	510.1	499.7	477.9
52.5°	602.1	609.7	606.8	604.0	586.0	621.1	642.9	654.2	642.9	627.7	594.5
55°	731.0	730.1	728.2	731.0	714.0	742.4	775.6	782.3	778.5	747.2	709.2
57.5°	837.2	838.2	838.2	838.2	817.3	842.0	872.3	877.1	871.4	843.9	793.6
60°	919.7	922.6	926.4	928.3	908.4	919.7	952.0	951.0	945.3	911.2	868.5
62.5°	989.9	994.6	1002.2	1002.2	989.9	987.1	1016.5	1012.7	1009.8	977.6	928.3
65°	1060.1	1064.8	1080.0	1079.0	1064.8	1051.5	1083.8	1080.9	1074.3	1042.1	983.3
67.5°	1119.8	1126.4	1143.5	1145.4	1135.0	1118.9	1138.8	1131.2	1127.4	1093.3	1028.8
70°	1183.3	1192.8	1206.1	1206.1	1181.4	1169.1	1187.1	1182.4	1187.1	1153.0	1079.0
72.5°	1231.7	1235.5	1263.0	1265.8	1237.4	1209.9	1230.7	1219.4	1223.2	1186.2	1113.2
75°	1281.9	1286.7	1308.5	1308.5	1269.6	1245.0	1260.1	1255.4	1262.0	1231.7	1146.4
77.5°	1300.9	1313.2	1336.0	1331.2	1303.8	1261.1	1277.2	1275.3	1279.1	1241.2	1157.7
78°	1300.9	1316.1	1339.8	1333.1	1307.5	1258.2	1261.1	1259.2	1262.0	1245.9	1163.4
80°	1297.1	1318.9	1333.1	1324.6	1302.8	1247.8	1245.9	1246.9	1252.5	1235.5	1148.2
82.5°	1267.7	1290.5	1305.6	1301.9	1282.9	1223.2	1232.6	1243.1	1255.4	1225.1	1136.9
85°	1241.2	1264.9	1272.5	1269.6	1247.8	1186.2	1193.8	1208.0	1202.3	1180.5	1101.8
87.5°	1206.1	1226.9	1229.8	1227.9	1208.9	1150.1	1155.8	1165.3	1171.0	1158.7	1072.4
90°	1150.1	1169.1	1175.7	1175.7	1155.8	1105.6	1118.9	1132.1	1142.6	1118.9	1033.5
92.5°	1088.5	1105.6	1112.2	1112.2	1095.2	1045.8	1054.4	1071.4	1073.3	1054.4	975.7
95°	1023.1	1033.5	1045.8	1043.9	1023.1	974.7	983.3	1004.1	1007.0	989.9	919.7
97.5°	940.6	944.4	959.6	956.7	935.9	900.8	913.1	932.1	934.0	916.9	848.6
100°	818.3	817.3	830.6	830.6	810.7	788.9	806.0	829.7	826.8	809.7	751.9
102.5°	615.4	604.0	623.0	621.1	615.4	606.8	623.9	646.7	652.3	640.0	581.2
105°	390.7	384.0	389.7	385.9	383.1	366.9	373.6	381.2	375.5	380.2	348.0
107.5°	257.9	254.1	257.9	257.0	251.3	243.7	242.7	244.6	243.7	239.9	221.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	198.2	196.3	199.1	198.2	195.3	191.5	190.6	192.5	192.5	189.6	179.2
112.5°	171.6	170.7	173.5	172.6	170.7	167.8	167.8	168.8	169.7	166.9	159.3
115°	154.6	155.5	157.4	157.4	155.5	151.7	152.7	154.6	154.6	152.7	147.0
117.5°	144.1	145.1	147.0	146.0	144.1	142.2	142.2	144.1	146.0	143.2	138.4
120°	135.6	135.6	137.5	136.5	134.6	133.7	134.6	136.5	137.5	134.6	129.9
122.5°	126.1	127.1	128.0	128.0	126.1	126.1	128.0	129.0	129.9	127.1	121.4
125°	115.7	116.6	117.6	117.6	116.6	117.6	118.5	119.5	121.4	118.5	112.8
127.5°	104.3	105.2	106.2	106.2	106.2	107.1	109.0	110.0	111.9	109.0	103.4
130°	91.0	92.0	93.9	92.9	93.9	95.8	98.6	98.6	99.6	97.7	92.0
132.5°	76.8	77.8	79.6	79.6	80.6	83.4	85.3	85.3	86.3	84.4	79.6
135°	61.6	62.6	65.4	65.4	67.3	69.2	71.1	71.1	72.1	70.2	65.4
137.5°	48.4	48.4	51.2	51.2	53.1	54.0	55.0	55.0	55.9	55.0	51.2
140°	37.9	37.9	40.8	39.8	41.7	41.7	41.7	41.7	42.7	41.7	38.9
142.5°	29.4	30.3	32.2	31.3	33.2	33.2	33.2	32.2	34.1	33.2	30.3
145°	22.8	22.8	24.7	23.7	24.7	25.6	25.6	24.7	25.6	24.7	22.8
147.5°	15.2	15.2	17.1	16.1	17.1	18.0	19.0	18.0	19.0	18.0	16.1
150°	7.6	7.6	9.5	8.5	9.5	10.4	11.4	11.4	11.4	10.4	8.5
152.5°	0.0	0.0	0.9	0.9	0.9	1.9	1.9	1.9	2.8	2.8	1.9
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	0.0	0.0	0.0	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	0.9	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.9	0.9
177.5°	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.9
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
2.5°	85.3	85.3	86.3	85.3	84.4	83.4	82.5	81.5	81.5	79.6	80.6
5°	106.2	105.2	104.3	102.4	101.5	100.5	99.6	98.6	98.6	98.6	99.6
7.5°	124.2	123.3	120.4	117.6	117.6	116.6	115.7	114.7	113.8	111.9	111.9
10°	135.6	134.6	132.7	131.8	129.9	129.0	128.0	126.1	124.2	120.4	120.4
12.5°	146.0	145.1	142.2	141.3	140.3	138.4	136.5	134.6	130.8	128.0	127.1
15°	155.5	153.6	150.8	149.8	147.9	145.1	143.2	141.3	137.5	133.7	132.7
17.5°	163.1	161.2	159.3	157.4	154.6	151.7	148.9	147.0	144.1	141.3	140.3
20°	171.6	169.7	167.8	165.0	162.1	159.3	156.5	153.6	151.7	148.9	148.9
22.5°	181.1	179.2	176.4	174.5	169.7	166.9	163.1	160.2	158.3	157.4	156.5
25°	190.6	188.7	184.9	182.1	177.3	173.5	170.7	166.9	165.0	165.9	165.9
27.5°	198.2	195.3	191.5	188.7	183.9	180.2	176.4	173.5	171.6	172.6	172.6
30°	203.9	202.0	198.2	194.4	189.6	184.9	182.1	178.3	177.3	178.3	179.2
32.5°	208.6	206.7	202.0	199.1	194.4	189.6	185.8	183.0	182.1	183.0	183.0
35°	212.4	211.4	206.7	202.0	198.2	193.4	190.6	187.7	187.7	189.6	188.7
37.5°	219.0	218.1	213.3	208.6	204.8	201.0	199.1	197.2	198.2	199.1	199.1
40°	236.1	230.4	226.6	220.9	217.1	215.2	213.3	213.3	214.3	215.2	215.2
42.5°	264.5	259.8	254.1	246.5	242.7	239.9	237.0	239.9	241.8	240.8	240.8
45°	310.1	304.4	295.8	284.5	277.8	274.0	274.0	277.8	279.7	276.9	275.0
47.5°	376.4	367.9	357.5	344.2	333.8	330.0	327.1	333.8	334.7	328.1	322.4
50°	460.8	453.2	440.0	425.7	416.3	405.8	397.3	406.8	406.8	392.5	386.9
52.5°	576.5	562.3	548.0	531.9	516.8	500.6	489.3	505.4	502.5	481.7	471.2
55°	689.3	681.7	672.3	644.8	630.5	601.1	587.9	604.9	597.4	568.0	560.4
57.5°	768.0	772.8	764.2	742.4	723.5	688.4	664.7	678.0	665.6	636.2	617.3
60°	832.5	837.2	834.4	809.7	797.4	752.9	720.6	736.7	727.3	693.1	675.1
62.5°	889.4	896.0	896.0	870.4	860.0	800.3	767.1	786.0	774.7	741.5	728.2
65°	944.4	949.1	952.0	926.4	914.0	844.8	806.9	831.6	826.8	792.7	786.0
67.5°	989.0	997.5	1004.1	980.4	961.5	893.2	843.9	882.8	866.6	839.1	819.2
70°	1038.3	1043.9	1054.4	1033.5	1015.5	938.7	876.1	929.2	912.2	880.9	854.3
72.5°	1072.4	1075.2	1098.0	1075.2	1045.8	975.7	911.2	970.0	940.6	898.9	875.2
75°	1103.7	1108.4	1137.8	1108.4	1086.6	1007.9	934.0	1002.2	974.7	926.4	901.7
77.5°	1114.1	1117.0	1148.2	1116.0	1085.7	1013.6	949.1	1009.8	980.4	932.1	907.4
78°	1122.6	1124.5	1154.9	1122.6	1091.4	1014.6	951.0	1013.6	985.2	938.7	912.2
80°	1106.5	1113.2	1140.7	1112.2	1080.0	1005.1	939.6	1006.0	973.8	921.6	897.9
82.5°	1090.4	1095.2	1117.9	1088.5	1060.1	989.9	924.5	988.0	959.6	904.6	884.7
85°	1055.3	1064.8	1091.4	1064.8	1032.6	963.4	907.4	968.1	934.9	879.9	856.2
87.5°	1026.9	1038.3	1062.0	1043.0	1010.8	939.6	880.9	944.4	913.1	859.1	836.3
90°	986.1	994.6	1014.6	992.7	962.4	897.0	848.6	906.5	881.8	832.5	811.6
92.5°	931.1	939.6	959.6	936.8	910.3	844.8	798.4	856.2	824.0	783.2	760.4
95°	877.1	884.7	902.7	884.7	861.0	798.4	754.8	812.6	779.4	739.6	722.5
97.5°	808.8	814.5	830.6	810.7	790.8	731.0	690.3	743.4	713.0	680.8	659.9
100°	710.2	712.1	720.6	696.9	688.4	635.3	604.0	649.5	623.9	601.1	581.2
102.5°	548.0	530.0	529.1	517.7	504.4	461.8	450.4	475.0	476.9	458.0	446.6
105°	329.0	315.7	312.9	307.2	293.9	273.1	265.5	291.1	288.2	282.6	273.1
107.5°	212.4	208.6	208.6	203.9	196.3	183.9	178.3	188.7	184.9	182.1	178.3



REPORT NUMBER: P314628

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	173.5	171.6	171.6	166.9	163.1	152.7	147.9	154.6	151.7	149.8	146.0
112.5°	154.6	152.7	152.7	149.8	146.0	137.5	134.6	140.3	136.5	133.7	131.8
115°	142.2	141.3	140.3	137.5	134.6	127.1	124.2	129.9	127.1	124.2	123.3
117.5°	133.7	131.8	131.8	129.0	126.1	119.5	117.6	121.4	118.5	115.7	114.7
120°	125.2	124.2	123.3	121.4	118.5	111.9	110.0	112.8	110.9	108.1	106.2
122.5°	117.6	116.6	114.7	112.8	109.0	103.4	102.4	104.3	101.5	98.6	97.7
125°	109.0	107.1	106.2	103.4	99.6	94.8	93.9	94.8	92.0	89.1	88.2
127.5°	100.5	97.7	95.8	92.9	89.1	84.4	84.4	85.3	83.4	80.6	79.6
130°	89.1	87.2	84.4	81.5	77.8	74.0	74.0	74.9	73.0	71.1	71.1
132.5°	76.8	74.0	72.1	69.2	66.4	63.5	63.5	63.5	62.6	61.6	60.7
135°	63.5	61.6	58.8	56.9	54.0	52.2	52.2	53.1	52.2	50.3	50.3
137.5°	49.3	47.4	45.5	44.6	42.7	40.8	40.8	41.7	40.8	39.8	39.8
140°	37.9	36.0	35.1	34.1	32.2	31.3	31.3	31.3	31.3	30.3	30.3
142.5°	29.4	28.4	27.5	26.5	25.6	23.7	24.7	24.7	24.7	23.7	23.7
145°	21.8	20.9	19.9	19.0	19.0	18.0	18.0	18.0	18.0	18.0	17.1
147.5°	15.2	14.2	13.3	12.3	12.3	12.3	12.3	12.3	12.3	11.4	11.4
150°	8.5	7.6	6.6	5.7	5.7	5.7	5.7	6.6	5.7	5.7	5.7
152.5°	1.9	0.9	0.9	0.9	0.9	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	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)