

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: P314635

Luminaire Tested: **MPB-A7-D-U-ASYM-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314635
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1906-378-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: MPB-A7-D-U-ASYM-7027
Description: BRECKENRIDGE POST TOP LUMINAIRE
(1) 70 CRI, 2700K LIGHT ENGINE. ASYMMETRIC DISTRIBUTION.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5777 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.58')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U4 - G5

Input Watts (W): 69.7
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

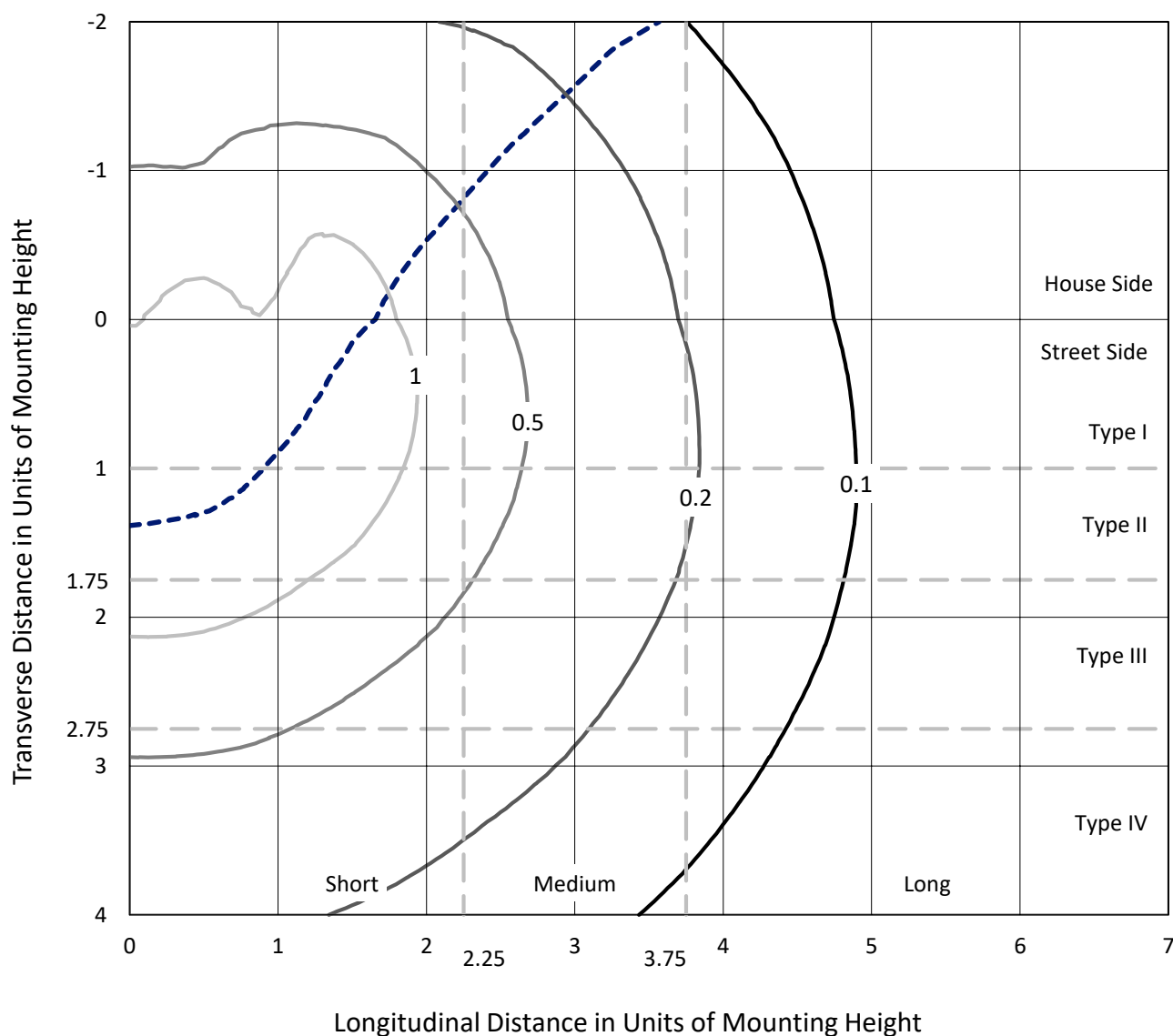


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

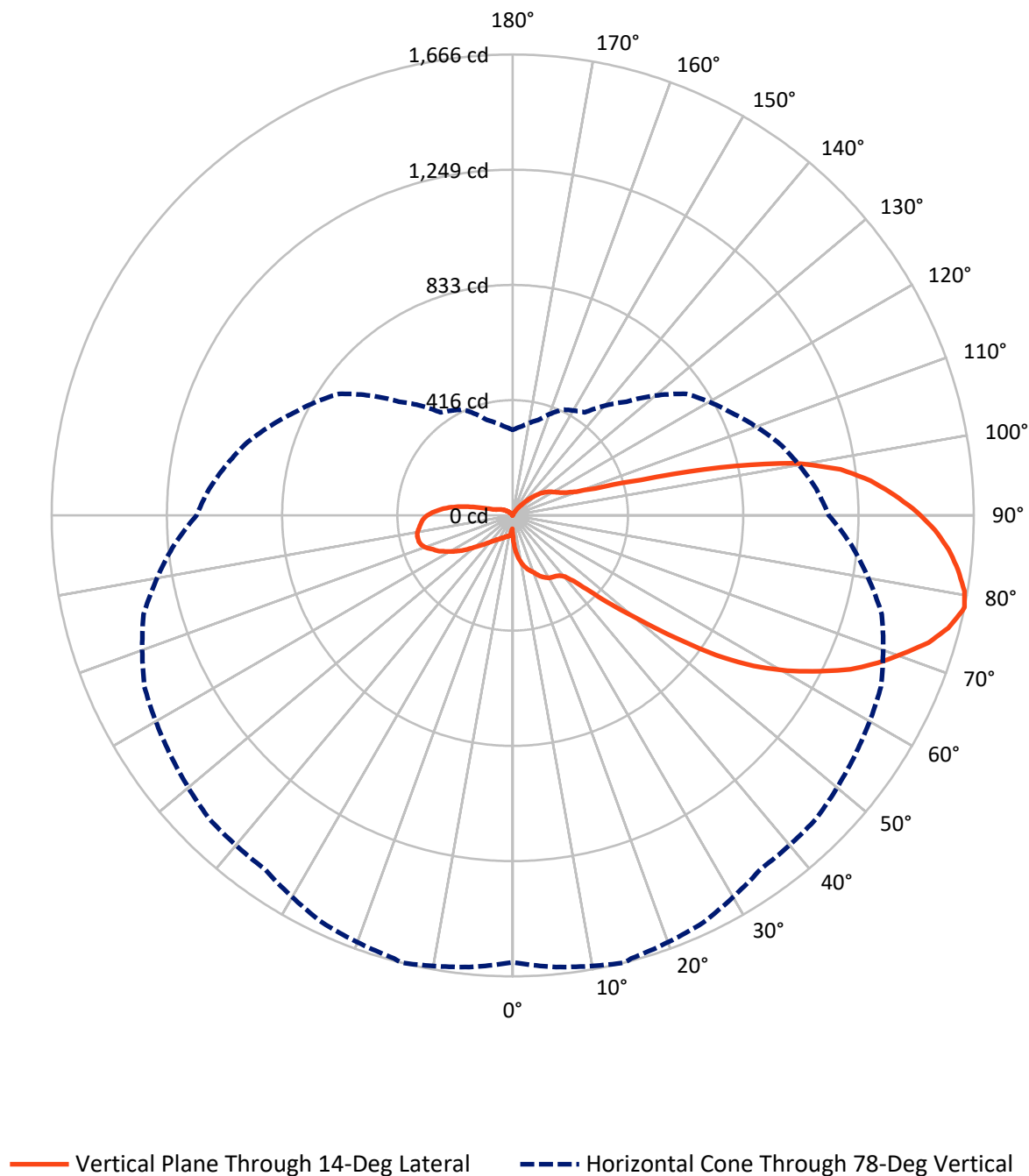


Based on 10 foot mounting height. Maximum calculated value = 1.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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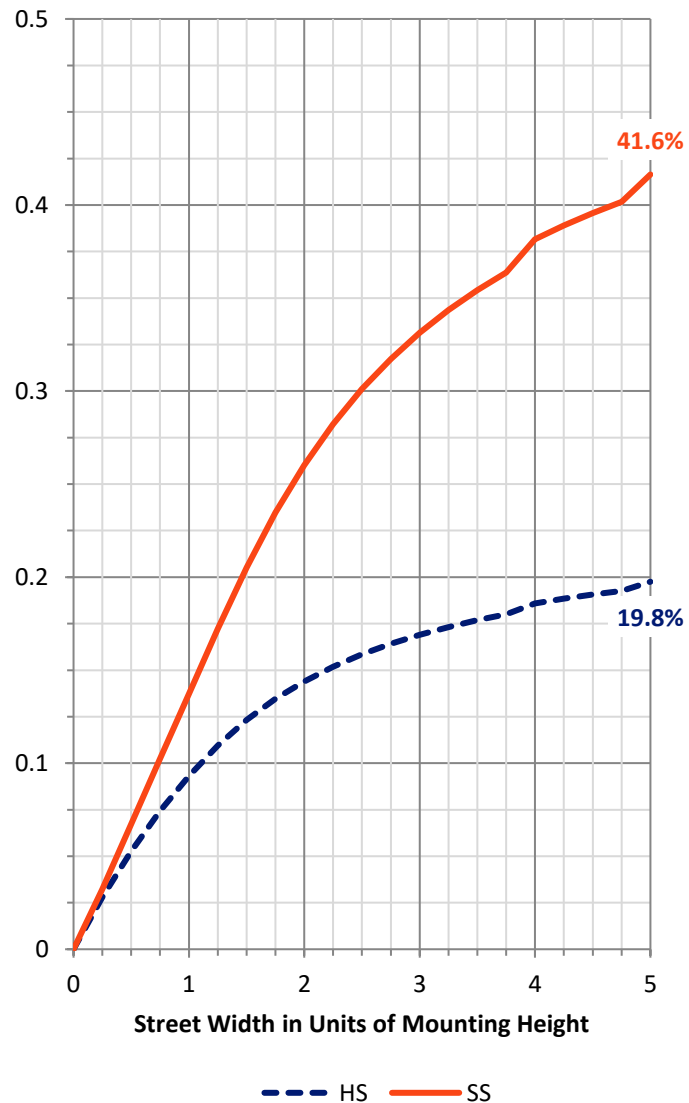
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1296.1	475.7	1771.8
	% Fixture	22.4	8.2	30.7
Street Side	Lumens	2888.0	1117.2	4005.2
	% Fixture	50.0	19.3	69.3
Total	Lumens	4184.1	1592.9	5777.0
	% Fixture	72.4	27.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.2	0.2
10°-20°	40.9	0.7
20°-30°	80.8	1.4
30°-40°	123.5	2.1
40°-50°	233.9	4.0
50°-60°	563.8	9.8
60°-70°	894.1	15.5
70°-80°	1117.9	19.4
80°-90°	1119.1	19.4
90°-100°	917.8	15.9
100°-110°	391.1	6.8
110°-120°	135.0	2.3
120°-130°	90.2	1.6
130°-140°	44.8	0.8
140°-150°	12.9	0.2
150°-160°	0.8	0.0
160°-170°	0.1	0.0
170°-180°	0.1	0.0
0°-90°	4184.1	72.4
0°-180°	5777.0	100.0

Coefficient of Utilization



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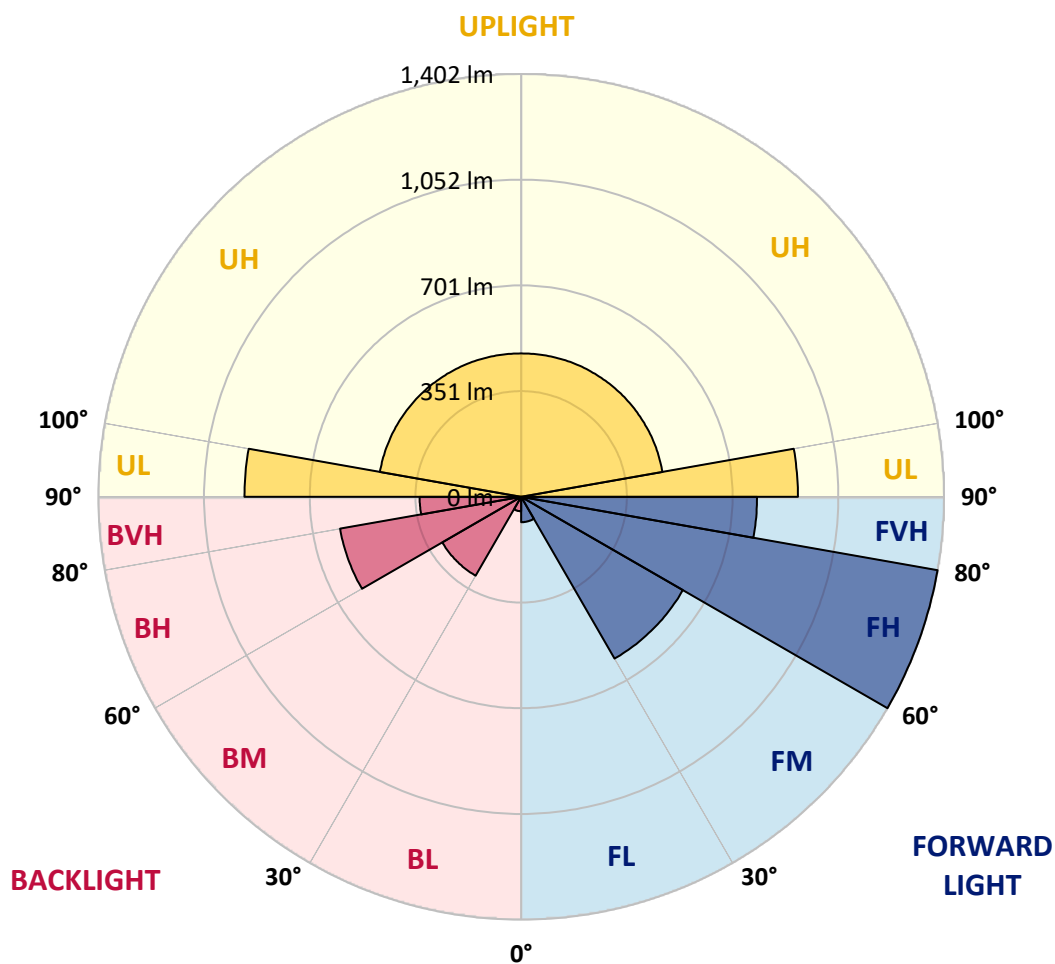
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	84.2	1.5			
FM	(30°-60°)	619.2	10.7			
FH	(60°-80°)	1402.2	24.3			G1/1800
FVH	(80°-90°)	782.3	13.5			G5
BL	(0°-30°)	47.7	0.8	B0/110		
BM	(30°-60°)	301.9	5.2	B1/1000		
BH	(60°-80°)	609.7	10.6	B2/1000		G2/1000
BVH	(80°-90°)	336.8	5.8			G3/500
UL	(90°-100°)	917.8	15.9		U4/1000	
UH	(100°-180°)	475.7	8.2		U3/500	

BUG Rating: B2-U4-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
0°	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5
2.5°	112.4	111.4	110.5	109.6	108.6	103.1	101.2	97.5	92.9	87.3	82.6
5°	139.3	138.4	136.5	136.5	133.7	130.0	126.3	121.6	114.2	106.8	100.3
7.5°	160.7	158.8	157.9	156.9	155.1	150.4	145.8	140.2	133.7	126.3	118.9
10°	176.4	176.4	175.5	175.5	172.7	168.1	161.6	156.0	148.6	139.3	130.9
12.5°	191.3	190.4	189.4	189.4	186.7	181.1	174.6	168.1	160.7	151.4	143.0
15°	201.5	201.5	201.5	200.6	196.9	192.2	185.7	180.2	171.8	161.6	153.2
17.5°	211.7	211.7	210.8	210.8	206.2	201.5	195.0	189.4	181.1	170.9	161.6
20°	222.9	222.9	221.0	220.1	216.4	212.7	205.2	198.7	190.4	181.1	170.9
22.5°	236.8	235.9	234.0	234.0	229.4	222.9	216.4	209.9	201.5	191.3	181.1
25°	247.9	247.9	246.1	245.2	241.4	235.9	228.4	219.2	210.8	200.6	191.3
27.5°	258.2	257.2	254.4	253.5	249.8	244.2	236.8	228.4	218.2	208.0	197.8
30°	266.5	264.7	261.9	261.9	257.2	250.7	243.3	234.9	222.9	213.6	203.4
32.5°	270.2	269.3	265.6	264.7	260.0	253.5	246.1	236.8	226.6	216.4	207.1
35°	273.9	273.0	269.3	268.4	262.8	255.4	247.0	238.7	227.5	219.2	208.9
37.5°	280.4	280.4	275.8	274.9	269.3	263.7	255.4	247.0	237.7	226.6	215.4
40°	294.4	293.4	290.7	288.8	284.2	282.3	274.9	266.5	257.2	248.9	232.2
42.5°	325.0	325.9	325.9	324.1	319.4	322.2	317.6	311.1	299.9	288.8	267.4
45°	380.7	390.9	388.2	386.3	380.7	390.0	387.2	384.4	368.7	351.9	322.2
47.5°	466.2	480.1	482.9	475.5	469.9	477.3	488.5	482.9	461.5	441.1	403.9
50°	577.6	592.5	588.7	586.9	575.7	597.1	612.0	609.2	584.1	559.0	501.5
52.5°	716.9	724.3	731.7	723.4	713.2	741.0	773.5	769.8	744.8	706.7	634.2
55°	875.7	883.1	890.5	880.3	865.5	898.0	940.7	932.3	906.3	844.1	760.5
57.5°	1015.0	1028.9	1026.1	1022.4	991.8	1024.3	1058.6	1050.3	1018.7	948.1	852.5
60°	1119.9	1128.3	1139.4	1135.7	1119.0	1125.5	1160.8	1140.3	1102.3	1024.3	921.2
62.5°	1214.6	1225.8	1240.6	1236.9	1223.9	1213.7	1241.6	1214.6	1175.6	1098.6	984.3
65°	1308.4	1321.4	1341.9	1336.3	1319.6	1296.3	1323.3	1295.4	1251.8	1168.2	1041.9
67.5°	1384.6	1398.5	1422.6	1419.9	1408.7	1381.8	1389.2	1354.9	1309.3	1222.1	1089.3
70°	1462.6	1478.4	1496.0	1499.7	1469.1	1444.9	1451.4	1413.4	1373.4	1287.1	1144.1
72.5°	1530.4	1537.8	1571.2	1578.6	1537.8	1496.0	1503.4	1459.8	1416.1	1320.5	1182.1
75°	1590.7	1599.1	1625.1	1626.0	1579.6	1540.6	1542.4	1506.2	1467.2	1371.6	1217.4
77.5°	1616.7	1632.5	1660.4	1652.0	1620.4	1561.0	1567.5	1531.3	1484.9	1379.9	1222.1
78°	1614.9	1638.1	1665.9	1657.6	1625.1	1561.0	1550.8	1509.9	1468.1	1380.9	1228.6
80°	1608.4	1637.2	1654.8	1646.4	1617.6	1544.3	1531.3	1496.9	1457.9	1369.7	1210.0
82.5°	1571.2	1602.8	1621.4	1614.9	1593.5	1516.4	1509.9	1496.0	1460.7	1365.1	1197.0
85°	1538.7	1570.3	1580.5	1575.9	1552.6	1480.2	1476.5	1451.4	1404.1	1314.9	1156.1
87.5°	1495.1	1522.0	1526.6	1527.6	1500.6	1427.3	1421.7	1401.3	1366.9	1285.2	1128.3
90°	1427.3	1450.5	1460.7	1460.7	1438.4	1370.6	1371.6	1365.1	1333.5	1246.2	1089.3
92.5°	1350.2	1372.5	1382.7	1381.8	1362.3	1302.8	1302.8	1290.8	1249.9	1173.8	1027.0
95°	1268.5	1285.2	1300.1	1299.1	1273.1	1217.4	1215.6	1214.6	1175.6	1101.3	966.7
97.5°	1166.3	1175.6	1196.1	1193.3	1169.1	1127.3	1129.2	1132.9	1097.6	1028.0	898.0
100°	1009.4	1008.5	1034.5	1028.9	1014.0	987.1	999.2	1004.8	975.0	914.7	805.1
102.5°	751.3	750.3	772.6	767.0	768.0	757.8	777.3	786.5	768.0	721.5	632.4
105°	470.8	467.1	480.1	476.4	471.7	458.7	461.5	457.8	447.6	419.7	368.7
107.5°	312.0	309.2	315.7	317.6	309.2	299.9	297.2	293.4	282.3	265.6	236.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	241.4	241.4	245.2	243.3	239.6	234.9	231.2	229.4	221.0	209.9	188.5
112.5°	207.1	207.1	210.8	209.9	207.1	202.4	201.5	199.7	194.1	184.8	168.1
115°	188.5	188.5	191.3	191.3	188.5	183.9	182.9	182.0	178.3	169.9	155.1
117.5°	176.4	175.5	178.3	178.3	174.6	171.8	171.8	170.9	168.1	159.7	146.7
120°	165.3	165.3	167.2	167.2	164.4	162.5	163.4	162.5	159.7	151.4	138.4
122.5°	155.1	155.1	156.9	156.0	154.2	154.2	154.2	154.2	151.4	143.9	130.9
125°	142.1	142.1	143.9	143.9	142.1	143.0	143.9	143.9	142.1	134.6	122.6
127.5°	128.1	128.1	130.0	130.0	129.1	130.9	133.7	132.8	130.9	124.4	113.3
130°	112.4	112.4	114.2	115.1	115.1	117.9	119.8	119.8	117.9	112.4	101.2
132.5°	95.6	94.7	96.6	97.5	99.4	102.1	103.1	103.1	102.1	96.6	87.3
135°	77.1	77.1	79.9	80.8	82.6	84.5	85.4	86.4	85.4	80.8	72.4
137.5°	59.4	59.4	62.2	63.1	65.0	65.9	65.9	67.8	65.9	63.1	56.6
140°	46.4	46.4	48.3	49.2	51.1	51.1	50.1	50.1	49.2	47.4	41.8
142.5°	37.1	36.2	39.0	39.0	39.9	40.9	39.9	39.9	39.0	37.1	33.4
145°	27.9	27.9	28.8	29.7	29.7	30.6	30.6	30.6	29.7	28.8	25.1
147.5°	18.6	18.6	20.4	20.4	21.4	22.3	22.3	22.3	21.4	20.4	17.6
150°	9.3	9.3	10.2	11.1	12.1	12.1	13.0	13.9	13.0	12.1	10.2
152.5°	0.0	0.0	0.9	0.9	1.9	2.8	3.7	3.7	3.7	3.7	3.7
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9
157.5°	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.9	0.9	0.9
160°	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.9	0.9	0.9	0.9
162.5°	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9
165°	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9
167.5°	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9
170°	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9
172.5°	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9
175°	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9
177.5°	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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°	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5
2.5°	79.9	76.1	71.5	66.9	62.2	57.6	53.9	50.1	48.3	46.4	46.4
5°	96.6	92.9	86.4	79.9	73.4	68.7	65.0	62.2	60.4	60.4	61.3
7.5°	115.1	111.4	102.1	92.9	86.4	80.8	76.1	73.4	70.6	68.7	68.7
10°	127.2	121.6	113.3	104.9	97.5	90.1	84.5	79.9	75.2	72.4	71.5
12.5°	137.4	132.8	122.6	113.3	104.9	95.6	89.1	82.6	77.1	73.4	72.4
15°	146.7	141.1	130.9	120.7	110.5	100.3	91.9	84.5	78.9	74.3	74.3
17.5°	156.0	150.4	139.3	128.1	116.1	104.9	94.7	87.3	80.8	77.1	76.1
20°	165.3	158.8	147.7	135.6	121.6	109.6	98.4	90.1	83.6	80.8	79.9
22.5°	174.6	168.1	156.0	143.0	128.1	114.2	102.1	92.9	86.4	84.5	84.5
25°	183.9	176.4	163.4	149.5	133.7	119.8	106.8	96.6	90.1	88.2	89.1
27.5°	190.4	183.9	169.9	155.1	139.3	124.4	110.5	100.3	93.8	92.9	92.9
30°	196.9	189.4	174.6	159.7	143.9	129.1	115.1	104.0	98.4	97.5	98.4
32.5°	200.6	193.2	177.4	163.4	147.7	131.9	118.9	107.7	102.1	103.1	103.1
35°	202.4	195.0	181.1	166.2	150.4	135.6	122.6	112.4	108.6	108.6	108.6
37.5°	208.0	200.6	185.7	170.9	156.0	141.1	128.1	117.9	115.1	116.1	115.1
40°	221.9	214.5	197.8	181.1	165.3	149.5	135.6	125.4	123.5	124.4	123.5
42.5°	255.4	247.0	222.9	200.6	181.1	162.5	145.8	135.6	133.7	133.7	134.6
45°	304.6	293.4	266.5	233.1	208.0	182.9	161.6	148.6	145.8	144.9	143.9
47.5°	377.0	360.3	326.9	284.2	246.1	213.6	182.0	164.4	158.8	156.9	155.1
50°	471.7	453.2	403.9	348.2	305.5	253.5	209.9	184.8	174.6	169.0	167.2
52.5°	588.7	570.2	504.2	435.5	374.2	305.5	247.9	209.9	195.0	183.9	181.1
55°	706.7	687.2	613.8	520.0	452.2	359.4	289.7	239.6	218.2	200.6	198.7
57.5°	791.2	766.1	687.2	591.5	517.2	407.7	321.3	265.6	238.7	218.2	213.6
60°	848.8	822.8	745.7	640.7	567.4	444.8	347.3	287.9	260.0	237.7	234.0
62.5°	905.4	879.4	792.1	684.4	607.3	468.0	369.6	307.4	279.5	256.3	256.3
65°	958.3	930.5	835.8	729.0	646.3	490.3	390.0	326.9	300.9	278.6	283.2
67.5°	1002.0	974.1	875.7	772.6	677.9	514.5	404.9	353.8	314.8	298.1	297.2
70°	1053.1	1020.5	917.5	809.8	716.9	545.1	419.7	375.2	335.2	317.6	302.7
72.5°	1087.4	1046.6	952.8	838.5	734.5	562.7	435.5	401.2	349.2	319.4	309.2
75°	1124.6	1087.4	986.2	862.7	766.1	578.5	444.8	412.3	355.7	320.4	308.3
77.5°	1131.1	1092.1	993.6	867.3	763.3	586.9	456.9	417.9	355.7	321.3	310.2
78°	1142.2	1101.3	999.2	874.8	766.1	581.3	454.1	421.6	356.6	321.3	309.2
80°	1125.5	1089.3	989.0	862.7	756.8	575.7	453.2	422.5	354.7	317.6	304.6
82.5°	1106.9	1074.4	969.5	848.8	744.8	567.4	446.7	407.7	346.4	306.4	294.4
85°	1068.8	1044.7	949.0	827.4	721.5	547.9	440.2	403.9	338.9	296.2	285.1
87.5°	1040.1	1017.8	921.2	813.5	708.5	532.1	427.2	393.7	330.6	286.9	275.8
90°	999.2	973.2	876.6	768.9	670.5	509.8	412.3	373.3	316.7	275.8	264.7
92.5°	944.4	923.0	831.1	726.2	634.2	477.3	386.3	351.9	294.4	260.0	247.9
95°	887.8	868.3	780.0	686.2	599.0	448.5	360.3	326.9	266.5	239.6	226.6
97.5°	822.8	805.1	721.5	629.6	546.0	411.4	325.0	294.4	234.9	209.9	201.5
100°	729.9	713.2	632.4	548.8	472.7	354.7	271.2	245.2	195.0	173.7	166.2
102.5°	562.7	548.8	479.2	412.3	347.3	258.2	192.2	176.4	147.7	129.1	123.5
105°	330.6	322.2	285.1	246.1	206.2	158.8	120.7	117.9	101.2	92.9	88.2
107.5°	214.5	208.0	186.7	164.4	140.2	111.4	89.1	84.5	75.2	71.5	69.6



REPORT NUMBER: P314635

CATALOG NUMBER: MPB-A7-D-U-ASYM-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	175.5	169.9	153.2	134.6	116.1	91.9	76.1	70.6	63.1	60.4	59.4
112.5°	156.0	151.4	136.5	119.8	104.0	82.6	68.7	63.1	56.6	53.9	52.9
115°	144.9	139.3	125.4	110.5	96.6	77.1	64.1	58.5	52.0	48.3	48.3
117.5°	135.6	130.0	117.9	104.0	90.1	71.5	59.4	52.9	47.4	43.6	42.7
120°	129.1	123.5	111.4	97.5	84.5	66.9	55.7	48.3	41.8	38.1	37.1
122.5°	121.6	116.1	104.0	91.0	77.1	61.3	50.1	42.7	37.1	33.4	32.5
125°	114.2	108.6	96.6	83.6	69.6	54.8	44.6	37.1	31.6	28.8	27.9
127.5°	105.9	100.3	88.2	75.2	62.2	48.3	39.0	32.5	26.9	24.1	23.2
130°	94.7	89.1	78.0	65.9	53.9	41.8	33.4	26.9	23.2	20.4	19.5
132.5°	81.7	76.1	65.9	55.7	45.5	35.3	26.9	22.3	18.6	16.7	15.8
135°	67.8	63.1	54.8	45.5	37.1	28.8	22.3	18.6	14.9	13.0	13.0
137.5°	52.9	49.2	41.8	35.3	28.8	22.3	16.7	13.9	12.1	10.2	10.2
140°	39.9	37.1	31.6	26.9	21.4	16.7	13.0	11.1	9.3	7.4	7.4
142.5°	30.6	28.8	24.1	20.4	16.7	12.1	9.3	7.4	6.5	5.6	5.6
145°	23.2	21.4	17.6	14.9	12.1	8.4	6.5	4.6	3.7	3.7	2.8
147.5°	15.8	14.9	12.1	9.3	7.4	4.6	3.7	2.8	1.9	1.9	0.9
150°	8.4	7.4	5.6	4.6	2.8	1.9	1.9	0.9	0.0	0.0	0.0
152.5°	2.8	2.8	1.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	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)