

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: P314634

Luminaire Tested: **MPB-A6-D-U-ASYM-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P314634  
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-A6-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: 5493 lumens  
Efficiency: N/A  
Efficacy: 84.8 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): 64.8  
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

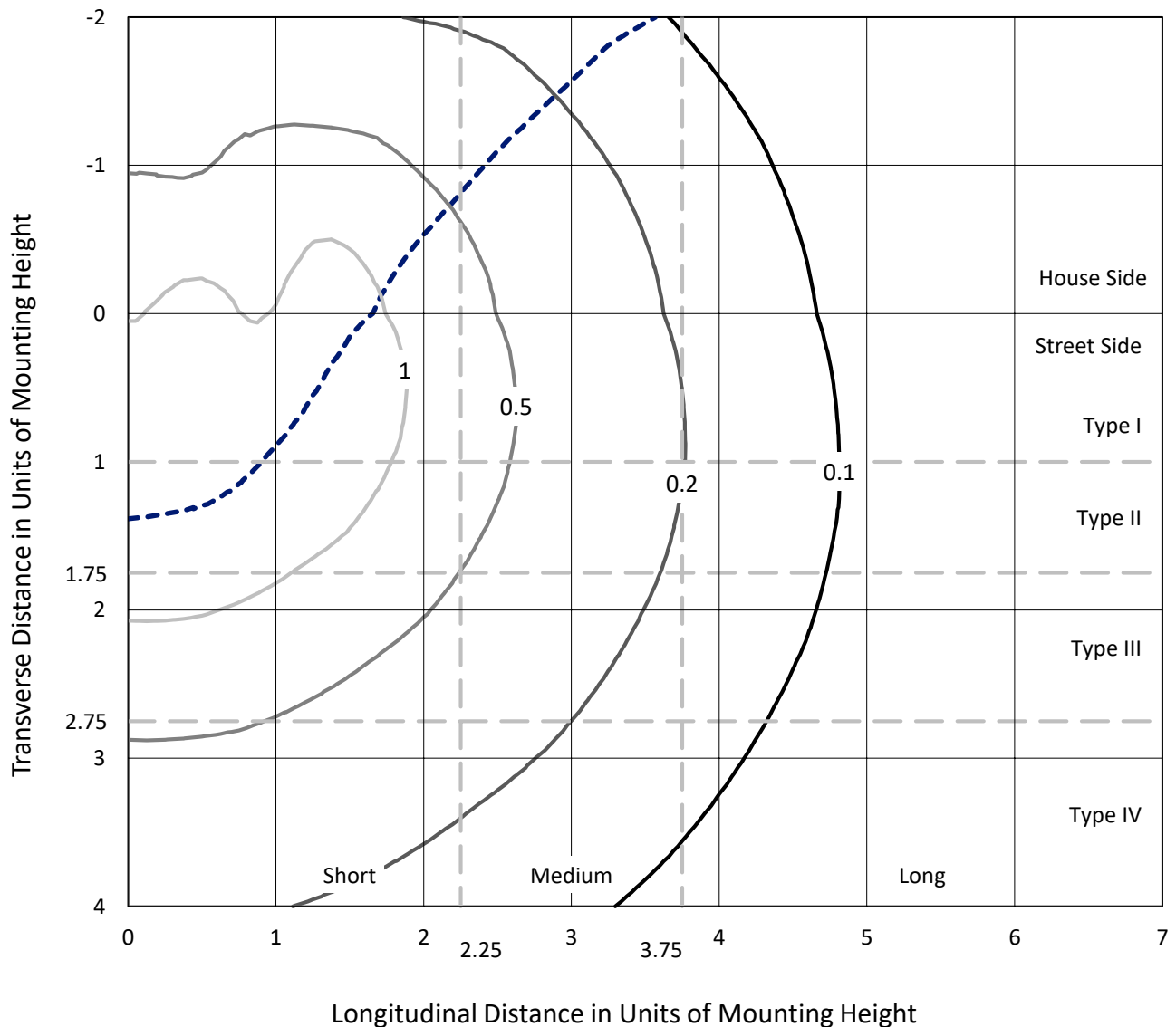


REPORT NUMBER: P314634

CATALOG NUMBER: MPB-A6-D-U-ASYM-7027

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

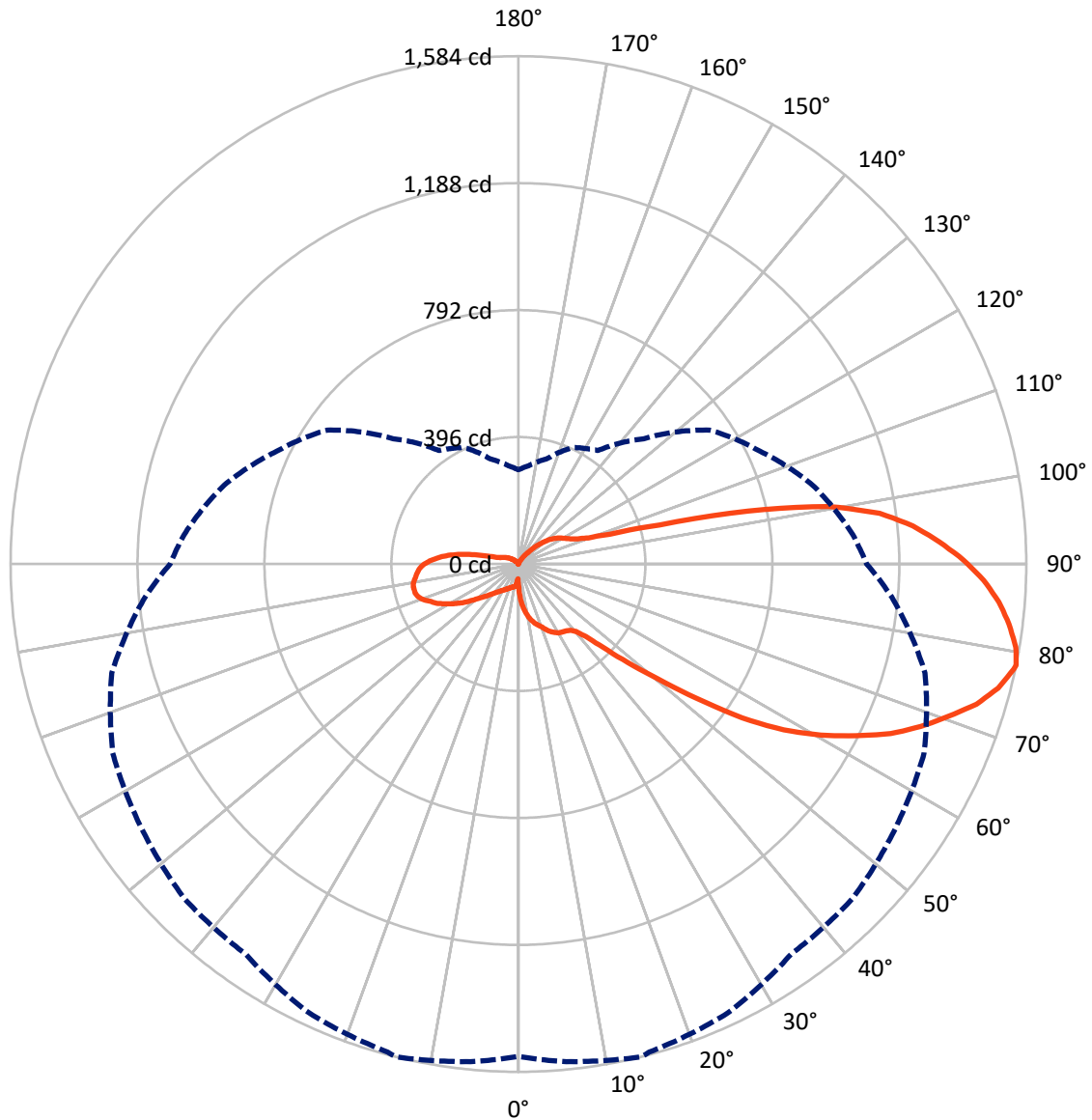


Based on 10 foot mounting height. Maximum calculated value = 1.8 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P314634

CATALOG NUMBER: MPB-A6-D-U-ASYM-7027

### Luminous Intensity Polar Plot



— Vertical Plane Through 14-Deg Lateral    - - - Horizontal Cone Through 78-Deg Vertical



REPORT NUMBER: P314634

CATALOG NUMBER: MPB-A6-D-U-ASYM-7027

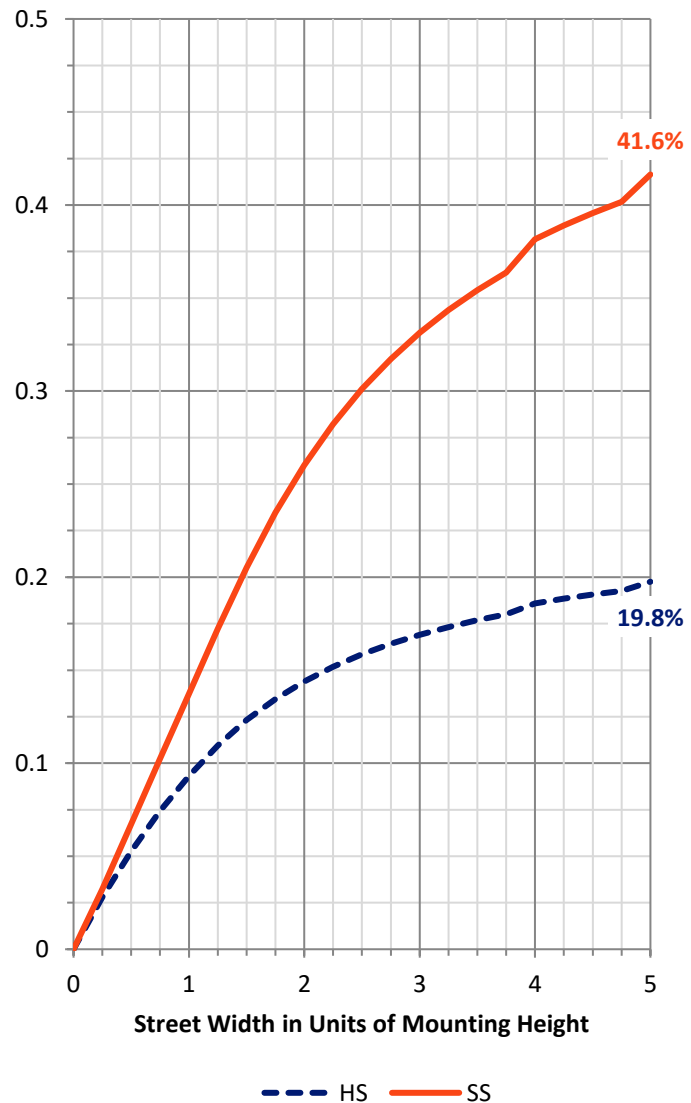
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1232.4	452.3	1684.7
	% Fixture	22.4	8.2	30.7
<b>Street Side</b>	Lumens	2746.0	1062.3	3808.3
	% Fixture	50.0	19.3	69.3
<b>Total</b>	Lumens	3978.4	1514.6	5493.0
	% Fixture	72.4	27.6	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	9.7	0.2
10°-20°	38.9	0.7
20°-30°	76.9	1.4
30°-40°	117.4	2.1
40°-50°	222.4	4.0
50°-60°	536.1	9.8
60°-70°	850.1	15.5
70°-80°	1062.9	19.4
80°-90°	1064.1	19.4
90°-100°	872.7	15.9
100°-110°	371.9	6.8
110°-120°	128.4	2.3
120°-130°	85.7	1.6
130°-140°	42.6	0.8
140°-150°	12.3	0.2
150°-160°	0.7	0.0
160°-170°	0.1	0.0
170°-180°	0.1	0.0
0°-90°	3978.4	72.4
0°-180°	5493.0	100.0



REPORT NUMBER: P314634

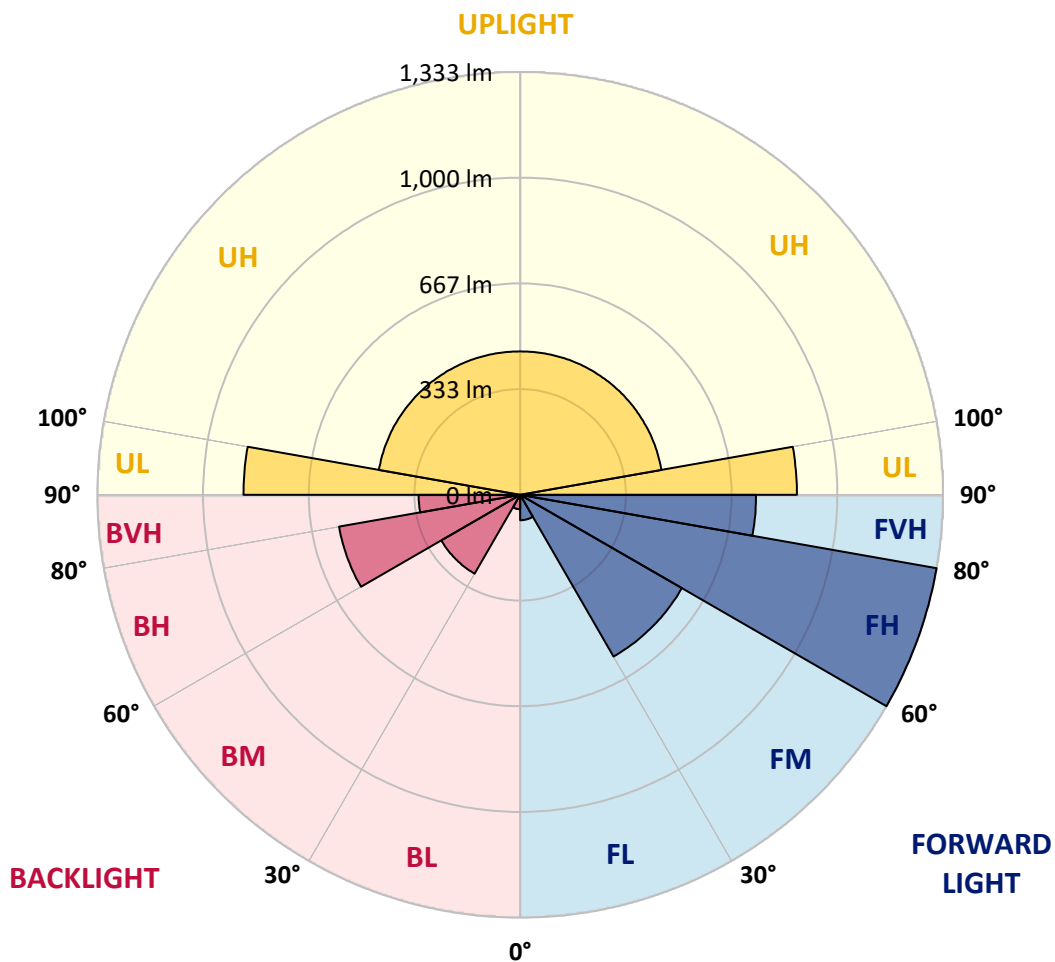
CATALOG NUMBER: MPB-A6-D-U-ASYM-7027

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	80.1	1.5			
FM	(30°-60°)	588.8	10.7			
FH	(60°-80°)	1333.3	24.3			G1/1800
FVH	(80°-90°)	743.8	13.5			G4/750
BL	(0°-30°)	45.4	0.8	B0/110		
BM	(30°-60°)	287.0	5.2	B1/1000		
BH	(60°-80°)	579.7	10.6	B2/1000		G2/1000
BVH	(80°-90°)	320.2	5.8			G3/500
UL	(90°-100°)	872.7	15.9		U4/1000	
UH	(100°-180°)	452.3	8.2		U3/500	

**BUG Rating: B2-U4-G4**

Type IV Short





REPORT NUMBER: P314634

CATALOG NUMBER: MPB-A6-D-U-ASYM-7027

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
0°	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
2.5°	106.8	106.0	105.1	104.2	103.3	98.0	96.2	92.7	88.3	83.0	78.6
5°	132.4	131.6	129.8	129.8	127.1	123.6	120.1	115.7	108.6	101.5	95.4
7.5°	152.8	151.0	150.1	149.2	147.5	143.0	138.6	133.3	127.1	120.1	113.0
10°	167.8	167.8	166.9	166.9	164.2	159.8	153.6	148.3	141.3	132.4	124.5
12.5°	181.9	181.0	180.1	180.1	177.5	172.2	166.0	159.8	152.8	143.9	136.0
15°	191.6	191.6	191.6	190.7	187.2	182.8	176.6	171.3	163.3	153.6	145.7
17.5°	201.3	201.3	200.4	200.4	196.0	191.6	185.4	180.1	172.2	162.5	153.6
20°	211.9	211.9	210.1	209.3	205.7	202.2	195.1	189.0	181.0	172.2	162.5
22.5°	225.2	224.3	222.5	222.5	218.1	211.9	205.7	199.6	191.6	181.9	172.2
25°	235.8	235.8	234.0	233.1	229.6	224.3	217.2	208.4	200.4	190.7	181.9
27.5°	245.5	244.6	241.9	241.0	237.5	232.2	225.2	217.2	207.5	197.8	188.1
30°	253.4	251.6	249.0	249.0	244.6	238.4	231.3	223.4	211.9	203.1	193.4
32.5°	256.9	256.1	252.5	251.6	247.2	241.0	234.0	225.2	215.4	205.7	196.9
35°	260.5	259.6	256.1	255.2	249.9	242.8	234.9	226.9	216.3	208.4	198.7
37.5°	266.7	266.7	262.2	261.4	256.1	250.8	242.8	234.9	226.0	215.4	204.8
40°	279.9	279.0	276.4	274.6	270.2	268.4	261.4	253.4	244.6	236.6	220.7
42.5°	309.0	309.9	309.9	308.2	303.7	306.4	302.0	295.8	285.2	274.6	254.3
45°	362.0	371.7	369.1	367.3	362.0	370.8	368.2	365.5	350.5	334.6	306.4
47.5°	443.2	456.5	459.1	452.1	446.8	453.8	464.4	459.1	438.8	419.4	384.1
50°	549.2	563.3	559.8	558.0	547.4	567.7	581.9	579.2	555.4	531.5	476.8
52.5°	681.6	688.7	695.8	687.8	678.1	704.6	735.5	732.0	708.1	671.9	603.1
55°	832.6	839.7	846.8	837.1	822.9	853.8	894.4	886.5	861.8	802.6	723.1
57.5°	965.1	978.3	975.7	972.1	943.0	973.9	1006.6	998.6	968.6	901.5	810.6
60°	1064.9	1072.8	1083.4	1079.9	1064.0	1070.2	1103.7	1084.3	1048.1	973.9	875.9
62.5°	1154.9	1165.5	1179.6	1176.1	1163.7	1154.0	1180.5	1154.9	1117.8	1044.5	935.9
65°	1244.1	1256.5	1275.9	1270.6	1254.7	1232.6	1258.2	1231.7	1190.2	1110.8	990.7
67.5°	1316.5	1329.7	1352.7	1350.1	1339.5	1313.9	1320.9	1288.2	1245.0	1162.0	1035.7
70°	1390.7	1405.7	1422.5	1426.0	1396.9	1373.9	1380.1	1343.9	1305.9	1223.8	1087.8
72.5°	1455.1	1462.2	1494.0	1501.0	1462.2	1422.5	1429.5	1388.0	1346.5	1255.6	1124.0
75°	1512.5	1520.5	1545.2	1546.1	1501.9	1464.8	1466.6	1432.2	1395.1	1304.1	1157.6
77.5°	1537.2	1552.3	1578.7	1570.8	1540.8	1484.3	1490.4	1456.0	1411.9	1312.1	1162.0
78°	1535.5	1557.6	1584.0	1576.1	1545.2	1484.3	1474.6	1435.7	1396.0	1313.0	1168.2
80°	1529.3	1556.7	1573.4	1565.5	1538.1	1468.4	1456.0	1423.3	1386.3	1302.4	1150.5
82.5°	1494.0	1524.0	1541.7	1535.5	1515.2	1441.9	1435.7	1422.5	1388.9	1298.0	1138.1
85°	1463.1	1493.1	1502.8	1498.4	1476.3	1407.4	1403.9	1380.1	1335.0	1250.3	1099.3
87.5°	1421.6	1447.2	1451.6	1452.5	1426.9	1357.1	1351.8	1332.4	1299.7	1222.0	1072.8
90°	1357.1	1379.2	1388.9	1388.9	1367.7	1303.3	1304.1	1298.0	1267.9	1184.9	1035.7
92.5°	1283.8	1305.0	1314.7	1313.9	1295.3	1238.8	1238.8	1227.3	1188.5	1116.1	976.6
95°	1206.1	1222.0	1236.2	1235.3	1210.5	1157.6	1155.8	1154.9	1117.8	1047.2	919.2
97.5°	1109.0	1117.8	1137.3	1134.6	1111.7	1071.9	1073.7	1077.2	1043.7	977.4	853.8
100°	959.8	958.9	983.6	978.3	964.2	938.6	950.1	955.4	927.1	869.7	765.5
102.5°	714.3	713.4	734.6	729.3	730.2	720.5	739.0	747.9	730.2	686.1	601.3
105°	447.7	444.1	456.5	453.0	448.5	436.2	438.8	435.3	425.6	399.1	350.5
107.5°	296.7	294.0	300.2	302.0	294.0	285.2	282.5	279.0	268.4	252.5	225.2



REPORT NUMBER: P314634

CATALOG NUMBER: MPB-A6-D-U-ASYM-7027

**CANDELA DISTRIBUTION (continued):**

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	229.6	229.6	233.1	231.3	227.8	223.4	219.9	218.1	210.1	199.6	179.2
112.5°	196.9	196.9	200.4	199.6	196.9	192.5	191.6	189.8	184.5	175.7	159.8
115°	179.2	179.2	181.9	181.9	179.2	174.8	173.9	173.1	169.5	161.6	147.5
117.5°	167.8	166.9	169.5	169.5	166.0	163.3	163.3	162.5	159.8	151.9	139.5
120°	157.2	157.2	158.9	158.9	156.3	154.5	155.4	154.5	151.9	143.9	131.6
122.5°	147.5	147.5	149.2	148.3	146.6	146.6	146.6	146.6	143.9	136.9	124.5
125°	135.1	135.1	136.9	136.9	135.1	136.0	136.9	136.9	135.1	128.0	116.6
127.5°	121.8	121.8	123.6	123.6	122.7	124.5	127.1	126.3	124.5	118.3	107.7
130°	106.8	106.8	108.6	109.5	109.5	112.1	113.9	113.9	112.1	106.8	96.2
132.5°	90.9	90.1	91.8	92.7	94.5	97.1	98.0	98.0	97.1	91.8	83.0
135°	73.3	73.3	75.9	76.8	78.6	80.3	81.2	82.1	81.2	76.8	68.9
137.5°	56.5	56.5	59.2	60.0	61.8	62.7	62.7	64.5	62.7	60.0	53.9
140°	44.1	44.1	45.9	46.8	48.6	48.6	47.7	47.7	46.8	45.0	39.7
142.5°	35.3	34.4	37.1	37.1	38.0	38.9	38.0	38.0	37.1	35.3	31.8
145°	26.5	26.5	27.4	28.3	28.3	29.1	29.1	29.1	28.3	27.4	23.8
147.5°	17.7	17.7	19.4	19.4	20.3	21.2	21.2	21.2	20.3	19.4	16.8
150°	8.8	8.8	9.7	10.6	11.5	11.5	12.4	13.2	12.4	11.5	9.7
152.5°	0.0	0.0	0.9	0.9	1.8	2.6	3.5	3.5	3.5	3.5	3.5
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





REPORT NUMBER: P314634

CATALOG NUMBER: MPB-A6-D-U-ASYM-7027

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
2.5°	75.9	72.4	68.0	63.6	59.2	54.7	51.2	47.7	45.9	44.1	44.1
5°	91.8	88.3	82.1	75.9	69.8	65.3	61.8	59.2	57.4	57.4	58.3
7.5°	109.5	106.0	97.1	88.3	82.1	76.8	72.4	69.8	67.1	65.3	65.3
10°	121.0	115.7	107.7	99.8	92.7	85.6	80.3	75.9	71.5	68.9	68.0
12.5°	130.7	126.3	116.6	107.7	99.8	90.9	84.8	78.6	73.3	69.8	68.9
15°	139.5	134.2	124.5	114.8	105.1	95.4	87.4	80.3	75.1	70.6	70.6
17.5°	148.3	143.0	132.4	121.8	110.4	99.8	90.1	83.0	76.8	73.3	72.4
20°	157.2	151.0	140.4	128.9	115.7	104.2	93.6	85.6	79.5	76.8	75.9
22.5°	166.0	159.8	148.3	136.0	121.8	108.6	97.1	88.3	82.1	80.3	80.3
25°	174.8	167.8	155.4	142.2	127.1	113.9	101.5	91.8	85.6	83.9	84.8
27.5°	181.0	174.8	161.6	147.5	132.4	118.3	105.1	95.4	89.2	88.3	88.3
30°	187.2	180.1	166.0	151.9	136.9	122.7	109.5	98.9	93.6	92.7	93.6
32.5°	190.7	183.7	168.6	155.4	140.4	125.4	113.0	102.4	97.1	98.0	98.0
35°	192.5	185.4	172.2	158.1	143.0	128.9	116.6	106.8	103.3	103.3	103.3
37.5°	197.8	190.7	176.6	162.5	148.3	134.2	121.8	112.1	109.5	110.4	109.5
40°	211.0	204.0	188.1	172.2	157.2	142.2	128.9	119.2	117.4	118.3	117.4
42.5°	242.8	234.9	211.9	190.7	172.2	154.5	138.6	128.9	127.1	127.1	128.0
45°	289.6	279.0	253.4	221.6	197.8	173.9	153.6	141.3	138.6	137.7	136.9
47.5°	358.5	342.6	310.8	270.2	234.0	203.1	173.1	156.3	151.0	149.2	147.5
50°	448.5	430.9	384.1	331.1	290.5	241.0	199.6	175.7	166.0	160.7	158.9
52.5°	559.8	542.1	479.5	414.1	355.8	290.5	235.8	199.6	185.4	174.8	172.2
55°	671.9	653.4	583.6	494.5	430.0	341.7	275.5	227.8	207.5	190.7	189.0
57.5°	752.3	728.4	653.4	562.4	491.8	387.6	305.5	252.5	226.9	207.5	203.1
60°	807.0	782.3	709.0	609.2	539.5	422.9	330.2	273.7	247.2	226.0	222.5
62.5°	860.9	836.2	753.2	650.7	577.5	445.0	351.4	292.3	265.8	243.7	243.7
65°	911.2	884.7	794.7	693.1	614.5	466.2	370.8	310.8	286.1	264.9	269.3
67.5°	952.7	926.2	832.6	734.6	644.6	489.2	385.0	336.4	299.3	283.4	282.5
70°	1001.3	970.4	872.4	769.9	681.6	518.3	399.1	356.7	318.8	302.0	287.8
72.5°	1034.0	995.1	905.9	797.3	698.4	535.1	414.1	381.4	332.0	303.7	294.0
75°	1069.3	1034.0	937.7	820.3	728.4	550.1	422.9	392.0	338.2	304.6	293.1
77.5°	1075.5	1038.4	944.8	824.7	725.8	558.0	434.4	397.3	338.2	305.5	294.9
78°	1086.0	1047.2	950.1	831.8	728.4	552.7	431.8	400.9	339.1	305.5	294.0
80°	1070.2	1035.7	940.4	820.3	719.6	547.4	430.9	401.7	337.3	302.0	289.6
82.5°	1052.5	1021.6	921.8	807.0	708.1	539.5	424.7	387.6	329.3	291.4	279.9
85°	1016.3	993.3	902.4	786.7	686.1	520.9	418.5	384.1	322.3	281.7	271.1
87.5°	988.9	967.7	875.9	773.5	673.7	505.9	406.2	374.4	314.3	272.8	262.2
90°	950.1	925.3	833.5	731.1	637.5	484.7	392.0	355.0	301.1	262.2	251.6
92.5°	898.0	877.7	790.3	690.5	603.1	453.8	367.3	334.6	279.9	247.2	235.8
95°	844.1	825.6	741.7	652.5	569.5	426.5	342.6	310.8	253.4	227.8	215.4
97.5°	782.3	765.5	686.1	598.7	519.2	391.2	309.0	279.9	223.4	199.6	191.6
100°	694.0	678.1	601.3	521.8	449.4	337.3	257.8	233.1	185.4	165.1	158.1
102.5°	535.1	521.8	455.6	392.0	330.2	245.5	182.8	167.8	140.4	122.7	117.4
105°	314.3	306.4	271.1	234.0	196.0	151.0	114.8	112.1	96.2	88.3	83.9
107.5°	204.0	197.8	177.5	156.3	133.3	106.0	84.8	80.3	71.5	68.0	66.2



REPORT NUMBER: P314634

CATALOG NUMBER: MPB-A6-D-U-ASYM-7027

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	166.9	161.6	145.7	128.0	110.4	87.4	72.4	67.1	60.0	57.4	56.5
112.5°	148.3	143.9	129.8	113.9	98.9	78.6	65.3	60.0	53.9	51.2	50.3
115°	137.7	132.4	119.2	105.1	91.8	73.3	60.9	55.6	49.4	45.9	45.9
117.5°	128.9	123.6	112.1	98.9	85.6	68.0	56.5	50.3	45.0	41.5	40.6
120°	122.7	117.4	106.0	92.7	80.3	63.6	53.0	45.9	39.7	36.2	35.3
122.5°	115.7	110.4	98.9	86.5	73.3	58.3	47.7	40.6	35.3	31.8	30.9
125°	108.6	103.3	91.8	79.5	66.2	52.1	42.4	35.3	30.0	27.4	26.5
127.5°	100.7	95.4	83.9	71.5	59.2	45.9	37.1	30.9	25.6	23.0	22.1
130°	90.1	84.8	74.2	62.7	51.2	39.7	31.8	25.6	22.1	19.4	18.5
132.5°	77.7	72.4	62.7	53.0	43.3	33.6	25.6	21.2	17.7	15.9	15.0
135°	64.5	60.0	52.1	43.3	35.3	27.4	21.2	17.7	14.1	12.4	12.4
137.5°	50.3	46.8	39.7	33.6	27.4	21.2	15.9	13.2	11.5	9.7	9.7
140°	38.0	35.3	30.0	25.6	20.3	15.9	12.4	10.6	8.8	7.1	7.1
142.5°	29.1	27.4	23.0	19.4	15.9	11.5	8.8	7.1	6.2	5.3	5.3
145°	22.1	20.3	16.8	14.1	11.5	7.9	6.2	4.4	3.5	3.5	2.6
147.5°	15.0	14.1	11.5	8.8	7.1	4.4	3.5	2.6	1.8	1.8	0.9
150°	7.9	7.1	5.3	4.4	2.6	1.8	1.8	0.9	0.0	0.0	0.0
152.5°	2.6	2.6	1.8	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)