

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: P314645

Luminaire Tested: **MPB-A5-D-U-ASYM**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314645
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-A5-D-U-ASYM
Description: BRECKENRIDGE POST TOP LUMINAIRE
(1) 70 CRI, 4000K LIGHT ENGINE. ASYMMETRIC DISTRIBUTION.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4902 lumens
Efficiency: N/A
Efficacy: 95.7 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): 51.2
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

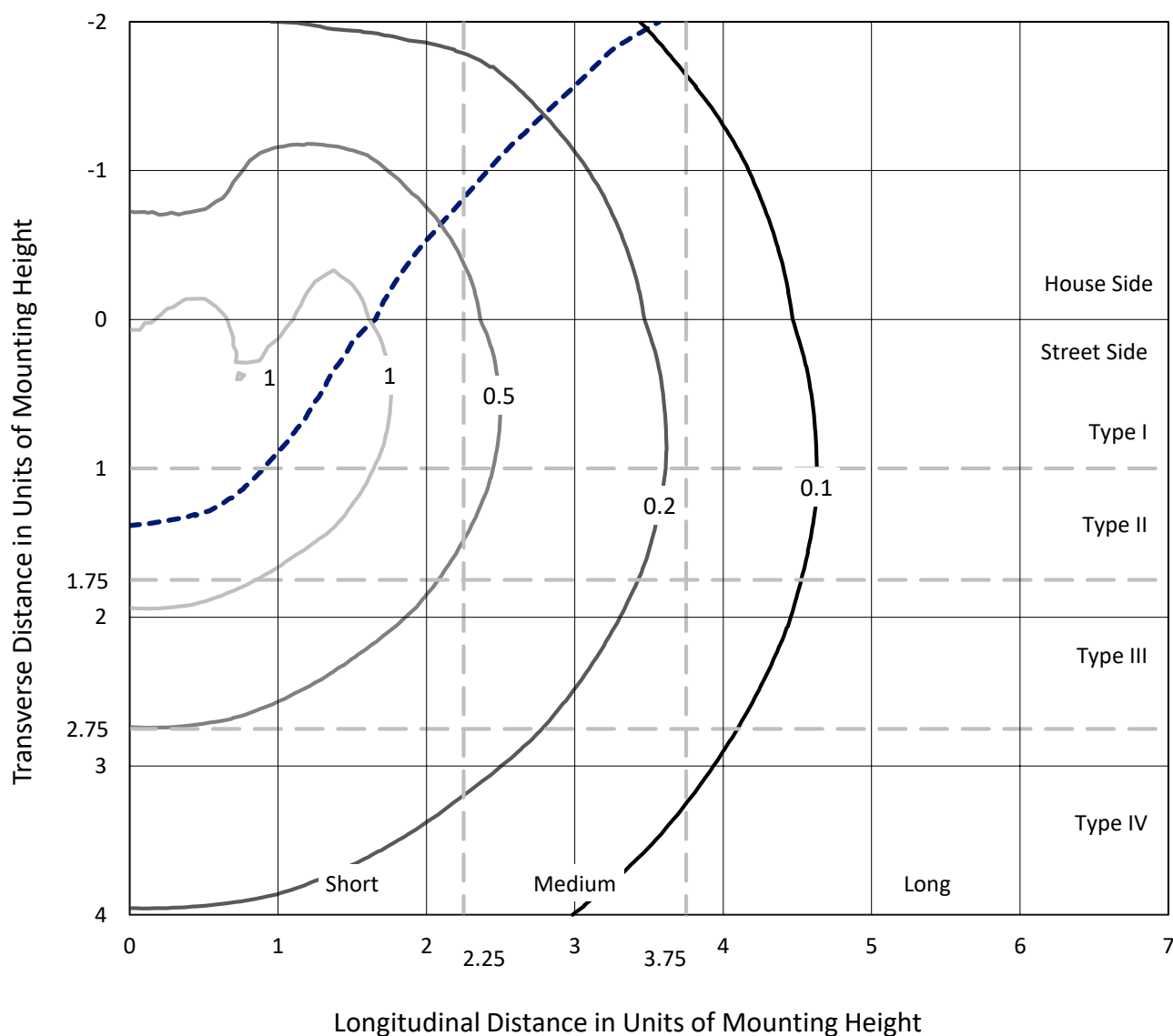


REPORT NUMBER: P314645

CATALOG NUMBER: MPB-A5-D-U-ASYM

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

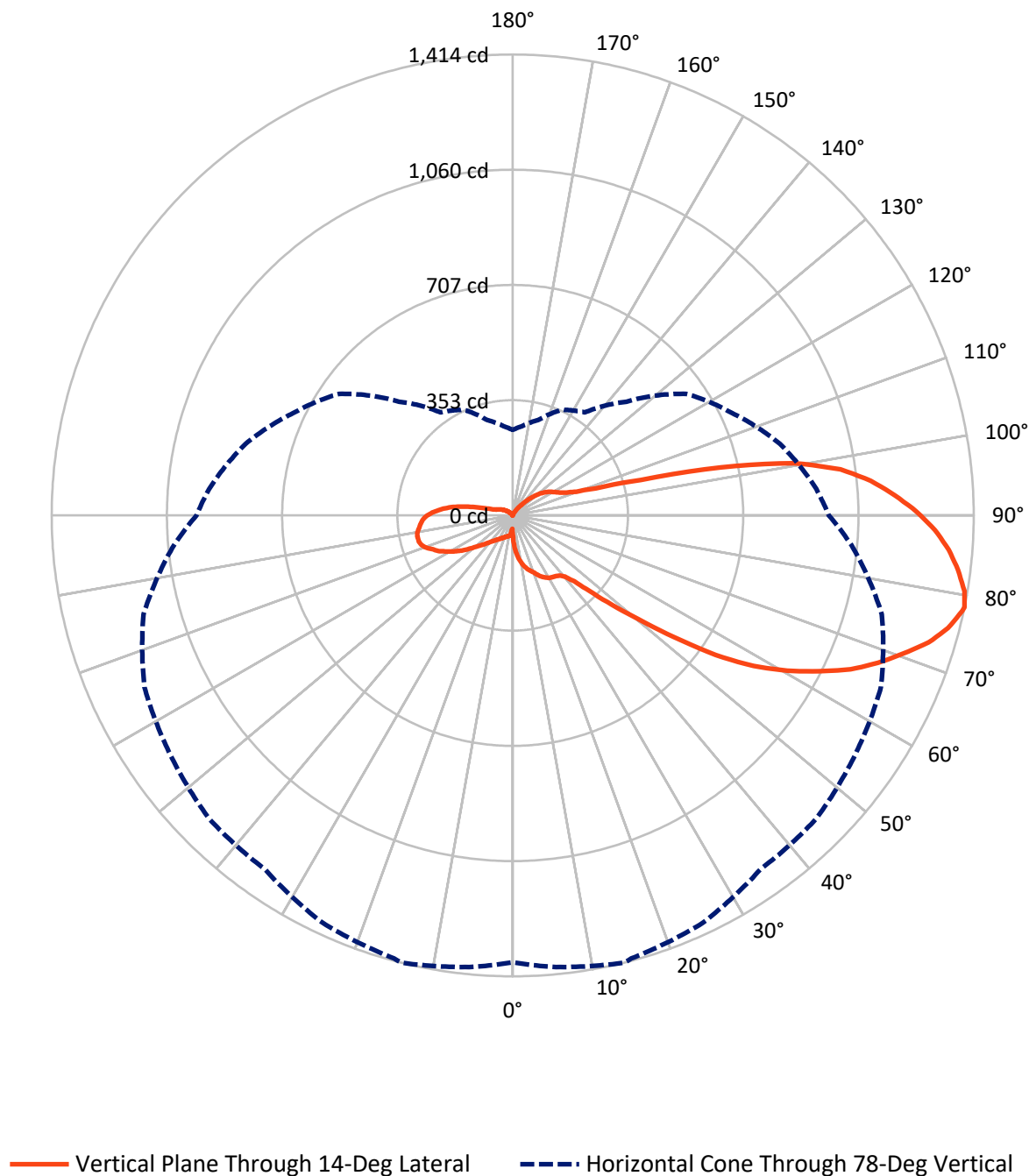


Based on 10 foot mounting height. Maximum calculated value = 1.6 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P314645

CATALOG NUMBER: MPB-A5-D-U-ASYM

Luminous Intensity Polar Plot



REPORT NUMBER: P314645

CATALOG NUMBER: MPB-A5-D-U-ASYM

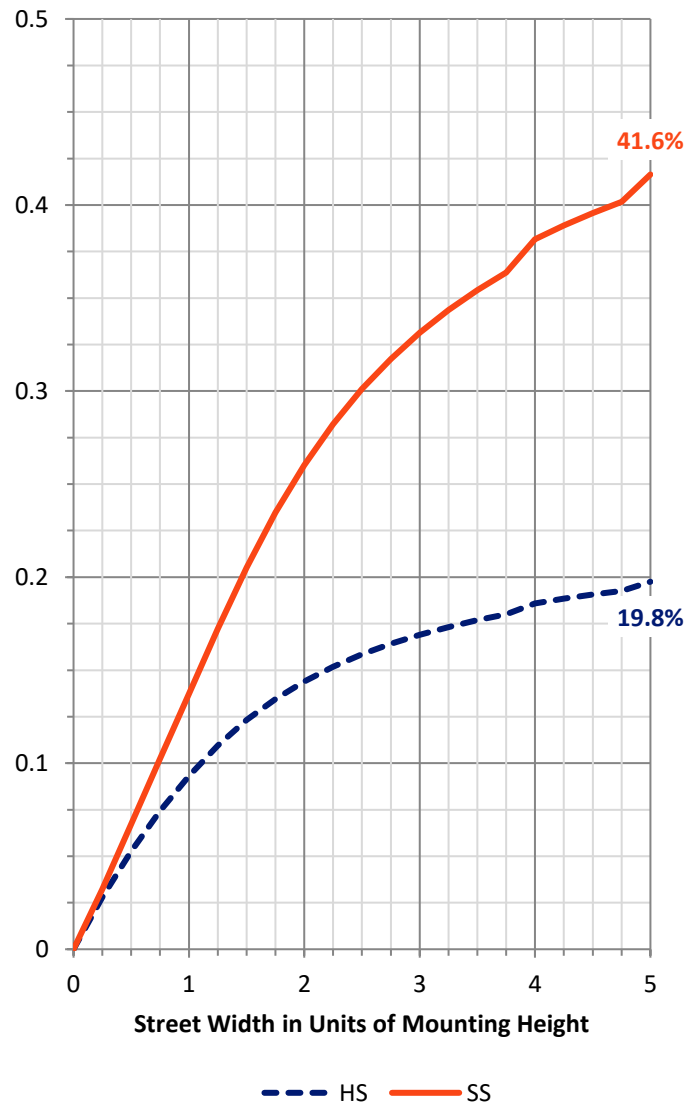
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1099.8	403.7	1503.5
	% Fixture	22.4	8.2	30.7
Street Side	Lumens	2450.6	948.0	3398.5
	% Fixture	50.0	19.3	69.3
Total	Lumens	3550.4	1351.6	4902.0
	% Fixture	72.4	27.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.7	0.2
10°-20°	34.7	0.7
20°-30°	68.6	1.4
30°-40°	104.8	2.1
40°-50°	198.5	4.0
50°-60°	478.4	9.8
60°-70°	758.7	15.5
70°-80°	948.6	19.4
80°-90°	949.6	19.4
90°-100°	778.8	15.9
100°-110°	331.9	6.8
110°-120°	114.6	2.3
120°-130°	76.5	1.6
130°-140°	38.1	0.8
140°-150°	11.0	0.2
150°-160°	0.7	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	3550.4	72.4
0°-180°	4902.0	100.0

Coefficient of Utilization



REPORT NUMBER: P314645

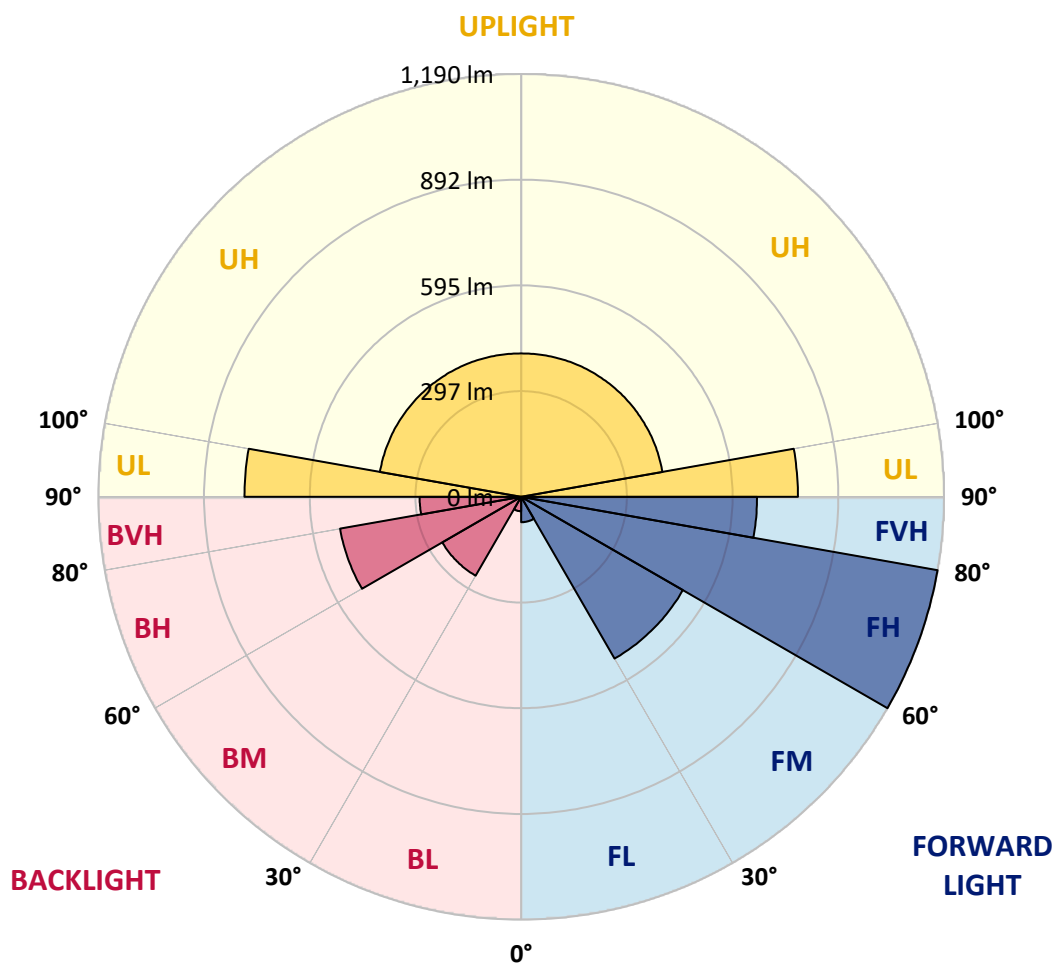
CATALOG NUMBER: MPB-A5-D-U-ASYM

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	71.5	1.5			
FM	(30°-60°)	525.5	10.7			
FH	(60°-80°)	1189.9	24.3			G1/1800
FVH	(80°-90°)	663.8	13.5			G4/750
BL	(0°-30°)	40.5	0.8	B0/110		
BM	(30°-60°)	256.1	5.2	B1/1000		
BH	(60°-80°)	517.4	10.6	B2/1000		G2/1000
BVH	(80°-90°)	285.8	5.8			G3/500
UL	(90°-100°)	778.8	15.9		U4/1000	
UH	(100°-180°)	403.7	8.2		U3/500	

BUG Rating: B2-U4-G4

Type IV Short





REPORT NUMBER: P314645

CATALOG NUMBER: MPB-A5-D-U-ASYM

CANDELA DISTRIBUTION (FULL):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
0°	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
2.5°	95.3	94.6	93.8	93.0	92.2	87.5	85.9	82.7	78.8	74.1	70.1
5°	118.2	117.4	115.8	115.8	113.5	110.3	107.2	103.2	96.9	90.6	85.1
7.5°	136.3	134.7	134.0	133.2	131.6	127.7	123.7	119.0	113.5	107.2	100.9
10°	149.7	149.7	148.9	148.9	146.6	142.6	137.1	132.4	126.1	118.2	111.1
12.5°	162.3	161.5	160.7	160.7	158.4	153.7	148.1	142.6	136.3	128.4	121.3
15°	171.0	171.0	171.0	170.2	167.0	163.1	157.6	152.9	145.8	137.1	130.0
17.5°	179.7	179.7	178.9	178.9	174.9	171.0	165.5	160.7	153.7	145.0	137.1
20°	189.1	189.1	187.5	186.7	183.6	180.4	174.1	168.6	161.5	153.7	145.0
22.5°	200.9	200.1	198.6	198.6	194.6	189.1	183.6	178.1	171.0	162.3	153.7
25°	210.4	210.4	208.8	208.0	204.9	200.1	193.8	186.0	178.9	170.2	162.3
27.5°	219.1	218.3	215.9	215.1	212.0	207.2	200.9	193.8	185.2	176.5	167.8
30°	226.1	224.6	222.2	222.2	218.3	212.8	206.4	199.4	189.1	181.2	172.6
32.5°	229.3	228.5	225.4	224.6	220.6	215.1	208.8	200.9	192.3	183.6	175.7
35°	232.4	231.7	228.5	227.7	223.0	216.7	209.6	202.5	193.1	186.0	177.3
37.5°	238.0	238.0	234.0	233.2	228.5	223.8	216.7	209.6	201.7	192.3	182.8
40°	249.8	249.0	246.6	245.1	241.1	239.5	233.2	226.1	218.3	211.2	197.0
42.5°	275.8	276.6	276.6	275.0	271.1	273.4	269.5	264.0	254.5	245.1	226.9
45°	323.1	331.7	329.4	327.8	323.1	330.9	328.6	326.2	312.8	298.6	273.4
47.5°	395.6	407.4	409.7	403.4	398.7	405.0	414.5	409.7	391.6	374.3	342.8
50°	490.1	502.7	499.6	498.0	488.5	506.7	519.3	516.9	495.6	474.4	425.5
52.5°	608.3	614.6	620.9	613.8	605.2	628.8	656.4	653.2	631.9	599.6	538.2
55°	743.1	749.4	755.7	747.0	734.4	762.0	798.2	791.1	769.1	716.3	645.3
57.5°	861.2	873.1	870.7	867.6	841.5	869.1	898.3	891.2	864.4	804.5	723.4
60°	950.3	957.4	966.8	963.7	949.5	955.0	985.0	967.6	935.3	869.1	781.7
62.5°	1030.7	1040.1	1052.7	1049.6	1038.5	1029.9	1053.5	1030.7	997.6	932.2	835.2
65°	1110.2	1121.3	1138.6	1133.9	1119.7	1100.0	1122.9	1099.2	1062.2	991.3	884.1
67.5°	1174.9	1186.7	1207.2	1204.8	1195.3	1172.5	1178.8	1149.6	1111.0	1037.0	924.3
70°	1241.0	1254.4	1269.4	1272.6	1246.6	1226.1	1231.6	1199.3	1165.4	1092.1	970.8
72.5°	1298.6	1304.9	1333.2	1339.5	1304.9	1269.4	1275.7	1238.7	1201.6	1120.5	1003.1
75°	1349.8	1356.9	1378.9	1379.7	1340.3	1307.2	1308.8	1278.1	1245.0	1163.8	1033.0
77.5°	1371.8	1385.2	1408.9	1401.8	1375.0	1324.6	1330.1	1299.4	1260.0	1170.9	1037.0
78°	1370.3	1390.0	1413.6	1406.5	1378.9	1324.6	1315.9	1281.2	1245.8	1171.7	1042.5
80°	1364.8	1389.2	1404.2	1397.1	1372.6	1310.4	1299.4	1270.2	1237.1	1162.2	1026.7
82.5°	1333.2	1360.0	1375.8	1370.3	1352.1	1286.7	1281.2	1269.4	1239.5	1158.3	1015.7
85°	1305.7	1332.4	1341.1	1337.2	1317.5	1256.0	1252.9	1231.6	1191.4	1115.8	981.0
87.5°	1268.6	1291.5	1295.4	1296.2	1273.4	1211.1	1206.4	1189.0	1159.9	1090.5	957.4
90°	1211.1	1230.8	1239.5	1239.5	1220.6	1163.0	1163.8	1158.3	1131.5	1057.4	924.3
92.5°	1145.7	1164.6	1173.3	1172.5	1155.9	1105.5	1105.5	1095.3	1060.6	996.0	871.5
95°	1076.4	1090.5	1103.2	1102.4	1080.3	1033.0	1031.4	1030.7	997.6	934.5	820.3
97.5°	989.7	997.6	1014.9	1012.5	992.0	956.6	958.2	961.3	931.4	872.3	762.0
100°	856.5	855.7	877.8	873.1	860.5	837.6	847.9	852.6	827.4	776.1	683.2
102.5°	637.5	636.7	655.6	650.9	651.6	643.0	659.5	667.4	651.6	612.2	536.6
105°	399.5	396.3	407.4	404.2	400.3	389.3	391.6	388.5	379.8	356.2	312.8
107.5°	264.8	262.4	267.9	269.5	262.4	254.5	252.1	249.0	239.5	225.4	200.9



REPORT NUMBER: P314645

CATALOG NUMBER: MPB-A5-D-U-ASYM

CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	204.9	204.9	208.0	206.4	203.3	199.4	196.2	194.6	187.5	178.1	160.0
112.5°	175.7	175.7	178.9	178.1	175.7	171.8	171.0	169.4	164.7	156.8	142.6
115°	160.0	160.0	162.3	162.3	160.0	156.0	155.2	154.4	151.3	144.2	131.6
117.5°	149.7	148.9	151.3	151.3	148.1	145.8	145.8	145.0	142.6	135.5	124.5
120°	140.3	140.3	141.8	141.8	139.5	137.9	138.7	137.9	135.5	128.4	117.4
122.5°	131.6	131.6	133.2	132.4	130.8	130.8	130.8	130.8	128.4	122.1	111.1
125°	120.6	120.6	122.1	122.1	120.6	121.3	122.1	122.1	120.6	114.3	104.0
127.5°	108.7	108.7	110.3	110.3	109.5	111.1	113.5	112.7	111.1	105.6	96.1
130°	95.3	95.3	96.9	97.7	97.7	100.1	101.6	101.6	100.1	95.3	85.9
132.5°	81.2	80.4	81.9	82.7	84.3	86.7	87.5	87.5	86.7	81.9	74.1
135°	65.4	65.4	67.8	68.6	70.1	71.7	72.5	73.3	72.5	68.6	61.5
137.5°	50.4	50.4	52.8	53.6	55.2	55.9	55.9	57.5	55.9	53.6	48.1
140°	39.4	39.4	41.0	41.8	43.3	43.3	42.6	42.6	41.8	40.2	35.5
142.5°	31.5	30.7	33.1	33.1	33.9	34.7	33.9	33.9	33.1	31.5	28.4
145°	23.6	23.6	24.4	25.2	25.2	26.0	26.0	26.0	25.2	24.4	21.3
147.5°	15.8	15.8	17.3	17.3	18.1	18.9	18.9	18.9	18.1	17.3	15.0
150°	7.9	7.9	8.7	9.5	10.2	10.2	11.0	11.8	11.0	10.2	8.7
152.5°	0.0	0.0	0.8	0.8	1.6	2.4	3.2	3.2	3.2	3.2	3.2
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8
157.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.8	0.8	0.8
160°	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.8	0.8	0.8	0.8
162.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8
165°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8
167.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8
170°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8
172.5°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8
175°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8
177.5°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8
180°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8



REPORT NUMBER: P314645

CATALOG NUMBER: MPB-A5-D-U-ASYM

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
2.5°	67.8	64.6	60.7	56.7	52.8	48.9	45.7	42.6	41.0	39.4	39.4
5°	81.9	78.8	73.3	67.8	62.2	58.3	55.2	52.8	51.2	51.2	52.0
7.5°	97.7	94.6	86.7	78.8	73.3	68.6	64.6	62.2	59.9	58.3	58.3
10°	108.0	103.2	96.1	89.0	82.7	76.4	71.7	67.8	63.8	61.5	60.7
12.5°	116.6	112.7	104.0	96.1	89.0	81.2	75.6	70.1	65.4	62.2	61.5
15°	124.5	119.8	111.1	102.4	93.8	85.1	78.0	71.7	67.0	63.0	63.0
17.5°	132.4	127.7	118.2	108.7	98.5	89.0	80.4	74.1	68.6	65.4	64.6
20°	140.3	134.7	125.3	115.0	103.2	93.0	83.5	76.4	70.9	68.6	67.8
22.5°	148.1	142.6	132.4	121.3	108.7	96.9	86.7	78.8	73.3	71.7	71.7
25°	156.0	149.7	138.7	126.9	113.5	101.6	90.6	81.9	76.4	74.9	75.6
27.5°	161.5	156.0	144.2	131.6	118.2	105.6	93.8	85.1	79.6	78.8	78.8
30°	167.0	160.7	148.1	135.5	122.1	109.5	97.7	88.3	83.5	82.7	83.5
32.5°	170.2	163.9	150.5	138.7	125.3	111.9	100.9	91.4	86.7	87.5	87.5
35°	171.8	165.5	153.7	141.0	127.7	115.0	104.0	95.3	92.2	92.2	92.2
37.5°	176.5	170.2	157.6	145.0	132.4	119.8	108.7	100.1	97.7	98.5	97.7
40°	188.3	182.0	167.8	153.7	140.3	126.9	115.0	106.4	104.8	105.6	104.8
42.5°	216.7	209.6	189.1	170.2	153.7	137.9	123.7	115.0	113.5	113.5	114.3
45°	258.5	249.0	226.1	197.8	176.5	155.2	137.1	126.1	123.7	122.9	122.1
47.5°	319.9	305.7	277.4	241.1	208.8	181.2	154.4	139.5	134.7	133.2	131.6
50°	400.3	384.5	342.8	295.5	259.2	215.1	178.1	156.8	148.1	143.4	141.8
52.5°	499.6	483.8	427.9	369.6	317.6	259.2	210.4	178.1	165.5	156.0	153.7
55°	599.6	583.1	520.8	441.3	383.7	304.9	245.8	203.3	185.2	170.2	168.6
57.5°	671.3	650.1	583.1	501.9	438.9	345.9	272.6	225.4	202.5	185.2	181.2
60°	720.2	698.1	632.7	543.7	481.4	377.4	294.7	244.3	220.6	201.7	198.6
62.5°	768.3	746.2	672.1	580.7	515.3	397.1	313.6	260.8	237.2	217.5	217.5
65°	813.2	789.5	709.2	618.6	548.4	416.0	330.9	277.4	255.3	236.4	240.3
67.5°	850.2	826.6	743.1	655.6	575.2	436.5	343.6	300.2	267.1	252.9	252.1
70°	893.6	866.0	778.5	687.1	608.3	462.5	356.2	318.3	284.5	269.5	256.9
72.5°	922.7	888.0	808.5	711.5	623.3	477.5	369.6	340.4	296.3	271.1	262.4
75°	954.2	922.7	836.8	732.0	650.1	490.9	377.4	349.9	301.8	271.8	261.6
77.5°	959.7	926.6	843.1	736.0	647.7	498.0	387.7	354.6	301.8	272.6	263.2
78°	969.2	934.5	847.9	742.3	650.1	493.3	385.3	357.7	302.6	272.6	262.4
80°	955.0	924.3	839.2	732.0	642.2	488.5	384.5	358.5	301.0	269.5	258.5
82.5°	939.3	911.7	822.6	720.2	631.9	481.4	379.0	345.9	293.9	260.0	249.8
85°	906.9	886.5	805.3	702.1	612.2	464.9	373.5	342.8	287.6	251.4	241.9
87.5°	882.5	863.6	781.7	690.3	601.2	451.5	362.5	334.1	280.5	243.5	234.0
90°	847.9	825.8	743.8	652.4	568.9	432.6	349.9	316.8	268.7	234.0	224.6
92.5°	801.4	783.2	705.2	616.2	538.2	405.0	327.8	298.6	249.8	220.6	210.4
95°	753.3	736.7	661.9	582.3	508.2	380.6	305.7	277.4	226.1	203.3	192.3
97.5°	698.1	683.2	612.2	534.2	463.3	349.1	275.8	249.8	199.4	178.1	171.0
100°	619.3	605.2	536.6	465.7	401.1	301.0	230.1	208.0	165.5	147.3	141.0
102.5°	477.5	465.7	406.6	349.9	294.7	219.1	163.1	149.7	125.3	109.5	104.8
105°	280.5	273.4	241.9	208.8	174.9	134.7	102.4	100.1	85.9	78.8	74.9
107.5°	182.0	176.5	158.4	139.5	119.0	94.6	75.6	71.7	63.8	60.7	59.1



REPORT NUMBER: P314645

CATALOG NUMBER: MPB-A5-D-U-ASYM

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	148.9	144.2	130.0	114.3	98.5	78.0	64.6	59.9	53.6	51.2	50.4
112.5°	132.4	128.4	115.8	101.6	88.3	70.1	58.3	53.6	48.1	45.7	44.9
115°	122.9	118.2	106.4	93.8	81.9	65.4	54.4	49.6	44.1	41.0	41.0
117.5°	115.0	110.3	100.1	88.3	76.4	60.7	50.4	44.9	40.2	37.0	36.2
120°	109.5	104.8	94.6	82.7	71.7	56.7	47.3	41.0	35.5	32.3	31.5
122.5°	103.2	98.5	88.3	77.2	65.4	52.0	42.6	36.2	31.5	28.4	27.6
125°	96.9	92.2	81.9	70.9	59.1	46.5	37.8	31.5	26.8	24.4	23.6
127.5°	89.8	85.1	74.9	63.8	52.8	41.0	33.1	27.6	22.9	20.5	19.7
130°	80.4	75.6	66.2	55.9	45.7	35.5	28.4	22.9	19.7	17.3	16.5
132.5°	69.3	64.6	55.9	47.3	38.6	29.9	22.9	18.9	15.8	14.2	13.4
135°	57.5	53.6	46.5	38.6	31.5	24.4	18.9	15.8	12.6	11.0	11.0
137.5°	44.9	41.8	35.5	29.9	24.4	18.9	14.2	11.8	10.2	8.7	8.7
140°	33.9	31.5	26.8	22.9	18.1	14.2	11.0	9.5	7.9	6.3	6.3
142.5°	26.0	24.4	20.5	17.3	14.2	10.2	7.9	6.3	5.5	4.7	4.7
145°	19.7	18.1	15.0	12.6	10.2	7.1	5.5	3.9	3.2	3.2	2.4
147.5°	13.4	12.6	10.2	7.9	6.3	3.9	3.2	2.4	1.6	1.6	0.8
150°	7.1	6.3	4.7	3.9	2.4	1.6	1.6	0.8	0.0	0.0	0.0
152.5°	2.4	2.4	1.6	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8

(END OF REPORT)