

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: P314617

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314617
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-A7-D-U-SYM-7027
Description: BRECKENRIDGE POST TOP LUMINAIRE
(1) 70 CRI, 2700K LIGHT ENGINE. SYMMETRIC DISTRIBUTION.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6039 lumens
Efficiency: N/A
Efficacy: 87.9 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): 68.7
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

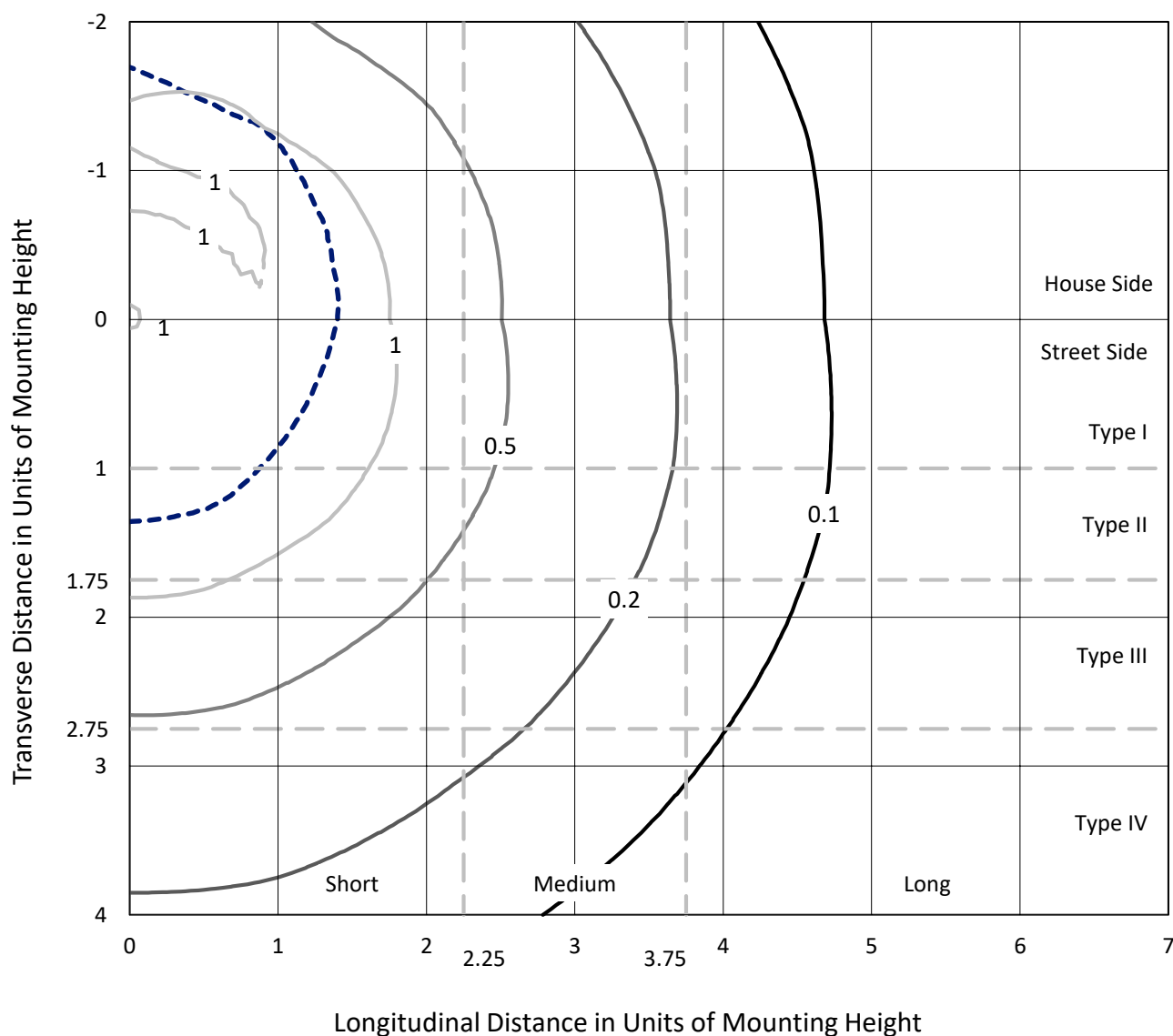


REPORT NUMBER: P314617

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

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

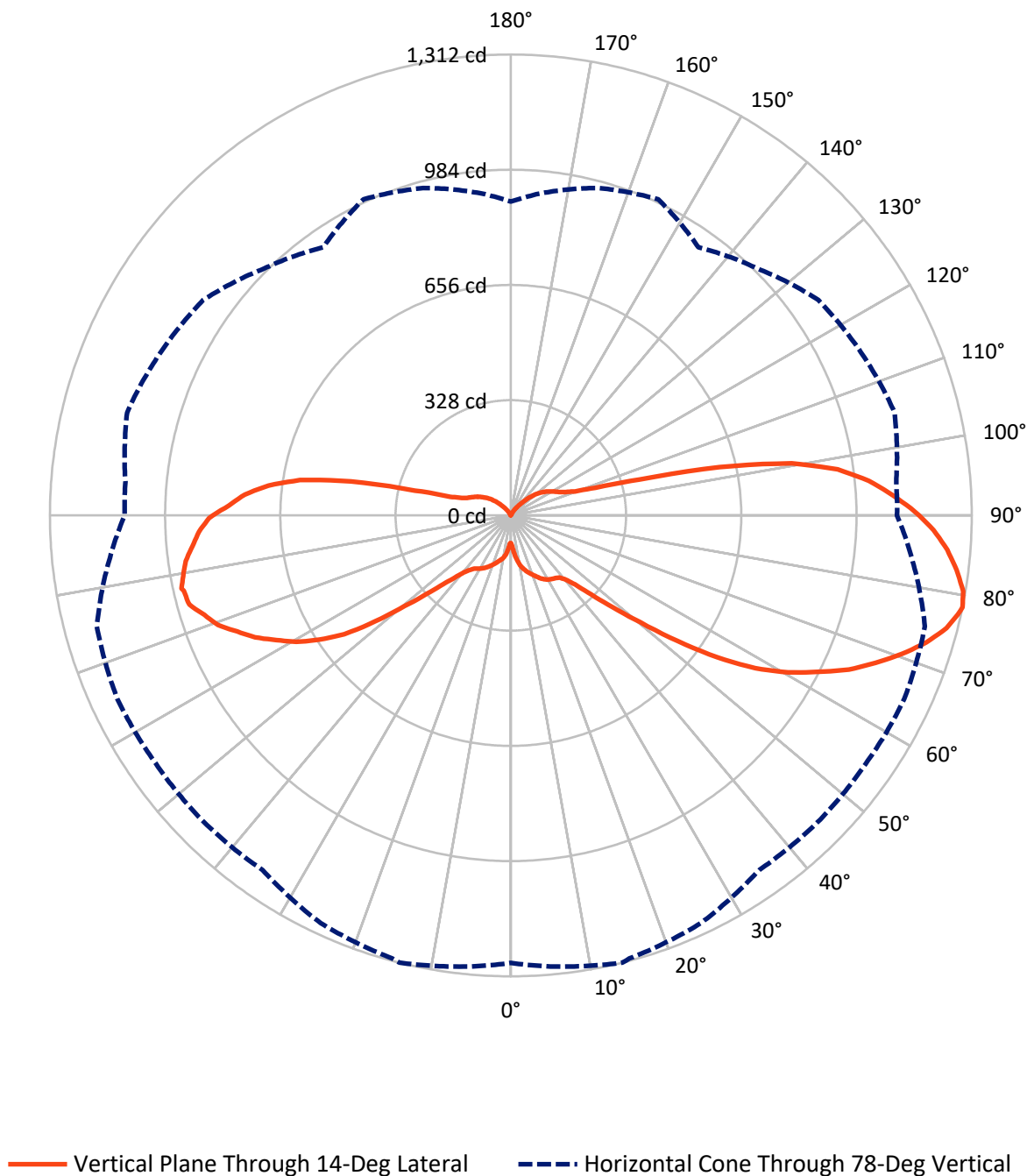


Based on 10 foot mounting height. Maximum calculated value = 1.5 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P314617

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

Luminous Intensity Polar Plot



REPORT NUMBER: P314617

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

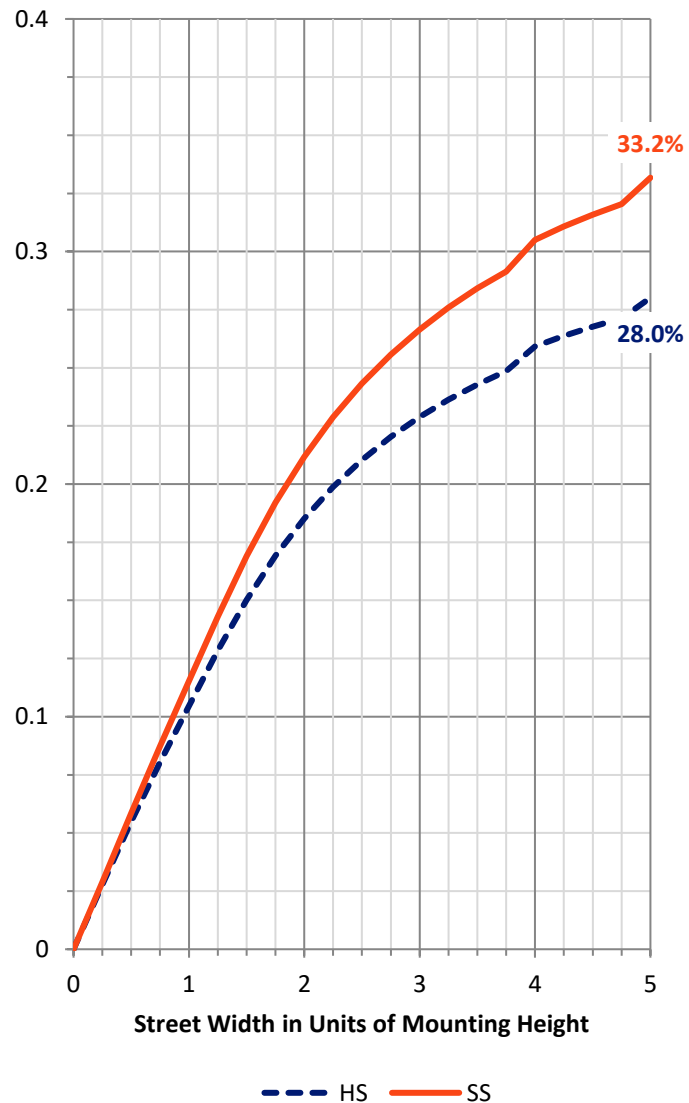
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1985.0	748.6	2733.7
	% Fixture	32.9	12.4	45.3
Street Side	Lumens	2389.3	916.0	3305.3
	% Fixture	39.6	15.2	54.7
Total	Lumens	4374.3	1664.6	6039.0
	% Fixture	72.4	27.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.8	0.2
10°-20°	43.1	0.7
20°-30°	84.5	1.4
30°-40°	129.2	2.1
40°-50°	244.9	4.1
50°-60°	590.7	9.8
60°-70°	934.9	15.5
70°-80°	1167.6	19.3
80°-90°	1168.7	19.4
90°-100°	960.3	15.9
100°-110°	406.7	6.7
110°-120°	141.6	2.3
120°-130°	94.4	1.6
130°-140°	47.1	0.8
140°-150°	13.9	0.2
150°-160°	0.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4374.3	72.4
0°-180°	6039.0	100.0

Coefficient of Utilization



REPORT NUMBER: P314617

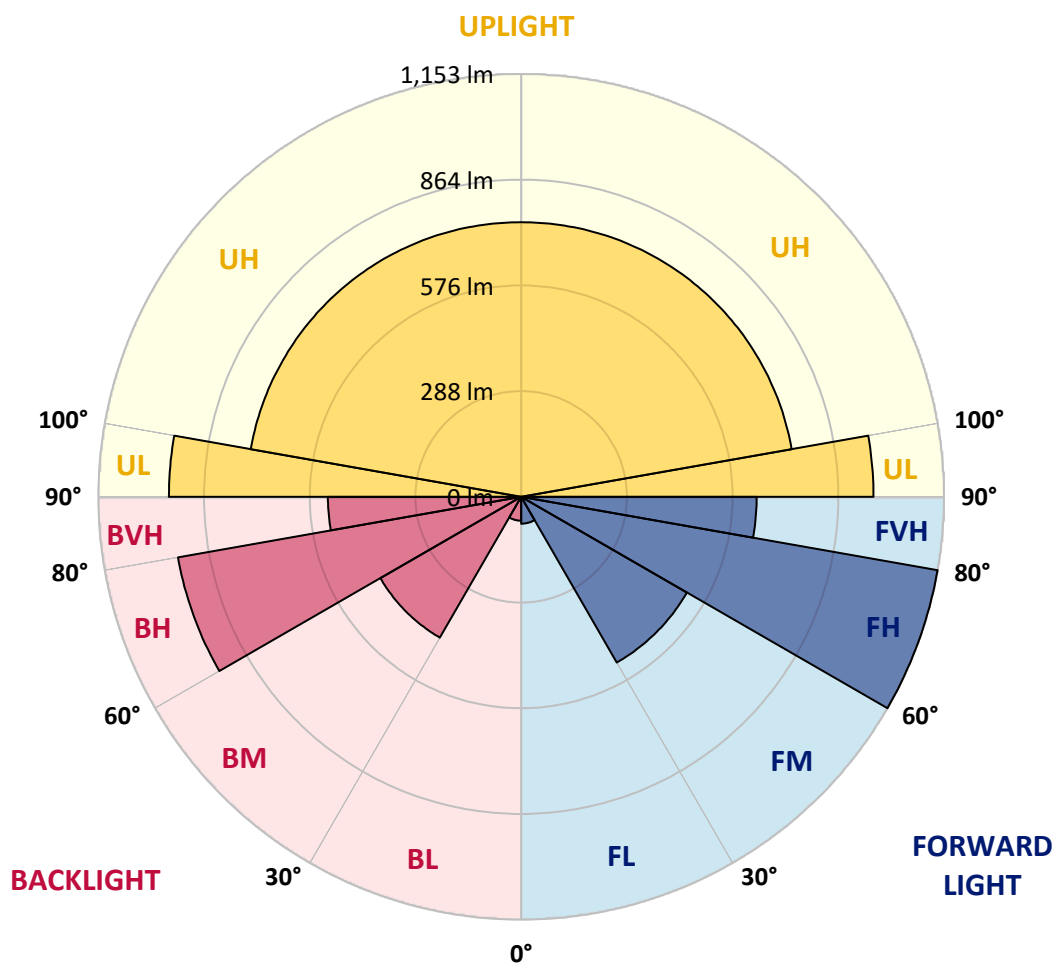
CATALOG NUMBER: MPB-A7-D-U-SYM-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	73.2	1.2			
FM	(30°-60°)	521.6	8.6			
FH	(60°-80°)	1152.6	19.1			G1/1800
FVH	(80°-90°)	641.9	10.6			G4/750
BL	(0°-30°)	65.1	1.1	B0/110		
BM	(30°-60°)	443.2	7.3	B1/1000		
BH	(60°-80°)	949.9	15.7	B2/1000		G2/1000
BVH	(80°-90°)	526.8	8.7			G4/750
UL	(90°-100°)	960.3	15.9		U4/1000	
UH	(100°-180°)	748.6	12.4		U4/1000	

BUG Rating: B2-U4-G4

Type IV Short





REPORT NUMBER: P314617

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
0°	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
2.5°	89.1	90.1	90.1	91.0	89.1	89.1	88.2	87.3	86.4	85.4	84.5
5°	111.4	111.4	111.4	111.4	109.6	110.5	109.6	107.7	105.8	105.8	104.0
7.5°	129.1	129.1	129.1	129.1	128.1	128.1	127.2	126.3	124.4	123.5	122.6
10°	142.1	143.0	143.9	143.9	143.0	142.1	140.2	139.3	138.3	136.5	133.7
12.5°	154.1	155.1	155.1	155.1	154.1	153.2	151.3	149.5	148.6	146.7	144.8
15°	164.3	164.3	164.3	163.4	162.5	161.6	159.7	158.8	156.9	155.1	153.2
17.5°	171.8	172.7	172.7	171.8	169.9	169.9	167.1	167.1	165.3	163.4	161.6
20°	181.1	181.1	181.1	180.1	179.2	178.3	175.5	174.6	173.6	171.8	169.9
22.5°	190.3	190.3	189.4	189.4	187.6	186.6	184.8	183.8	182.0	180.1	179.2
25°	200.6	200.6	198.7	198.7	196.8	195.0	193.1	192.2	190.3	189.4	188.5
27.5°	208.0	208.0	206.1	205.2	204.3	201.5	200.6	198.7	196.8	195.9	195.0
30°	214.5	213.6	211.7	211.7	209.8	207.1	205.2	203.3	201.5	201.5	201.5
32.5°	218.2	217.3	215.4	214.5	211.7	209.8	208.0	206.1	204.3	205.2	205.2
35°	221.9	221.9	219.1	218.2	215.4	212.6	209.8	208.0	207.1	208.0	208.9
37.5°	228.4	227.5	224.7	223.8	220.1	219.1	217.3	216.3	215.4	216.3	216.3
40°	242.3	242.3	239.6	238.6	235.8	236.8	235.8	236.8	234.9	236.8	234.0
42.5°	269.3	271.1	268.3	266.5	264.6	268.3	272.1	271.1	269.3	270.2	263.7
45°	316.6	320.3	321.3	318.5	312.9	323.1	328.7	329.6	325.0	322.2	312.0
47.5°	388.1	393.7	390.9	390.9	381.6	396.5	403.9	408.5	401.1	396.5	379.8
50°	478.2	487.5	478.2	481.9	465.2	491.2	503.2	506.0	499.5	489.3	468.0
52.5°	589.6	597.0	594.2	591.5	573.8	608.2	629.5	640.7	629.5	614.7	582.2
55°	715.9	714.9	713.1	715.9	699.2	727.0	759.5	766.0	762.3	731.7	694.5
57.5°	819.9	820.8	820.8	820.8	800.4	824.5	854.2	858.9	853.3	826.4	777.2
60°	900.6	903.4	907.1	909.0	889.5	900.6	932.2	931.3	925.7	892.3	850.5
62.5°	969.4	974.0	981.4	981.4	969.4	966.6	995.4	991.6	988.9	957.3	909.0
65°	1038.1	1042.7	1057.6	1056.6	1042.7	1029.7	1061.3	1058.5	1052.0	1020.4	962.9
67.5°	1096.6	1103.1	1119.8	1121.6	1111.4	1095.6	1115.1	1107.7	1104.0	1070.6	1007.4
70°	1158.8	1168.1	1181.1	1181.1	1156.9	1144.8	1162.5	1157.8	1162.5	1129.1	1056.6
72.5°	1206.1	1209.8	1236.8	1239.6	1211.7	1184.8	1205.2	1194.1	1197.8	1161.6	1090.1
75°	1255.3	1260.0	1281.3	1281.3	1243.3	1219.1	1234.0	1229.3	1235.8	1206.1	1122.6
77.5°	1273.9	1286.0	1308.3	1303.6	1276.7	1234.9	1250.7	1248.8	1252.6	1215.4	1133.7
78°	1273.9	1288.8	1312.0	1305.5	1280.4	1232.1	1234.9	1233.1	1235.8	1220.1	1139.3
80°	1270.2	1291.5	1305.5	1297.1	1275.8	1221.9	1220.1	1221.0	1226.6	1209.8	1124.4
82.5°	1241.4	1263.7	1278.5	1274.8	1256.3	1197.8	1207.1	1217.3	1229.3	1199.6	1113.3
85°	1215.4	1238.6	1246.1	1243.3	1221.9	1161.6	1169.0	1182.9	1177.3	1156.0	1078.9
87.5°	1181.1	1201.5	1204.3	1202.4	1183.8	1126.3	1131.8	1141.1	1146.7	1134.6	1050.1
90°	1126.3	1144.8	1151.3	1151.3	1131.8	1082.6	1095.6	1108.6	1118.8	1095.6	1012.1
92.5°	1065.9	1082.6	1089.1	1089.1	1072.4	1024.1	1032.5	1049.2	1051.1	1032.5	955.4
95°	1001.9	1012.1	1024.1	1022.3	1001.9	954.5	962.9	983.3	986.1	969.4	900.6
97.5°	921.1	924.8	939.6	936.9	916.4	882.1	894.1	912.7	914.6	897.9	831.0
100°	801.3	800.4	813.4	813.4	793.9	772.5	789.2	812.4	809.7	792.9	736.3
102.5°	602.6	591.5	610.0	608.2	602.6	594.2	611.0	633.2	638.8	626.7	569.2
105°	382.5	376.0	381.6	377.9	375.1	359.3	365.8	373.3	367.7	372.3	340.8
107.5°	252.6	248.8	252.6	251.6	246.1	238.6	237.7	239.6	238.6	234.9	217.3



REPORT NUMBER: P314617

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

CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	194.1	192.2	195.0	194.1	191.3	187.6	186.6	188.5	188.5	185.7	175.5
112.5°	168.1	167.1	169.9	169.0	167.1	164.3	164.3	165.3	166.2	163.4	156.0
115°	151.3	152.3	154.1	154.1	152.3	148.6	149.5	151.3	151.3	149.5	143.9
117.5°	141.1	142.1	143.9	143.0	141.1	139.3	139.3	141.1	143.0	140.2	135.6
120°	132.8	132.8	134.6	133.7	131.8	130.9	131.8	133.7	134.6	131.8	127.2
122.5°	123.5	124.4	125.3	125.3	123.5	123.5	125.3	126.3	127.2	124.4	118.8
125°	113.3	114.2	115.1	115.1	114.2	115.1	116.1	117.0	118.8	116.1	110.5
127.5°	102.1	103.1	104.0	104.0	104.0	104.9	106.8	107.7	109.6	106.8	101.2
130°	89.1	90.1	91.9	91.0	91.9	93.8	96.6	96.6	97.5	95.6	90.1
132.5°	75.2	76.1	78.0	78.0	78.9	81.7	83.6	83.6	84.5	82.6	78.0
135°	60.4	61.3	64.1	64.1	65.9	67.8	69.6	69.6	70.6	68.7	64.1
137.5°	47.4	47.4	50.1	50.1	52.0	52.9	53.9	53.9	54.8	53.9	50.1
140°	37.1	37.1	39.9	39.0	40.9	40.9	40.9	40.9	41.8	40.9	38.1
142.5°	28.8	29.7	31.6	30.6	32.5	32.5	32.5	31.6	33.4	32.5	29.7
145°	22.3	22.3	24.1	23.2	24.1	25.1	25.1	24.1	25.1	24.1	22.3
147.5°	14.9	14.9	16.7	15.8	16.7	17.6	18.6	17.6	18.6	17.6	15.8
150°	7.4	7.4	9.3	8.4	9.3	10.2	11.1	11.1	11.1	10.2	8.4
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



REPORT NUMBER: P314617

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
2.5°	83.6	83.6	84.5	83.6	82.6	81.7	80.8	79.9	79.9	78.0	78.9
5°	104.0	103.1	102.1	100.3	99.3	98.4	97.5	96.6	96.6	96.6	97.5
7.5°	121.6	120.7	117.9	115.1	115.1	114.2	113.3	112.3	111.4	109.6	109.6
10°	132.8	131.8	130.0	129.1	127.2	126.3	125.3	123.5	121.6	117.9	117.9
12.5°	143.0	142.1	139.3	138.3	137.4	135.6	133.7	131.8	128.1	125.3	124.4
15°	152.3	150.4	147.6	146.7	144.8	142.1	140.2	138.3	134.6	130.9	130.0
17.5°	159.7	157.8	156.0	154.1	151.3	148.6	145.8	143.9	141.1	138.3	137.4
20°	168.1	166.2	164.3	161.6	158.8	156.0	153.2	150.4	148.6	145.8	145.8
22.5°	177.3	175.5	172.7	170.8	166.2	163.4	159.7	156.9	155.1	154.1	153.2
25°	186.6	184.8	181.1	178.3	173.6	169.9	167.1	163.4	161.6	162.5	162.5
27.5°	194.1	191.3	187.6	184.8	180.1	176.4	172.7	169.9	168.1	169.0	169.0
30°	199.6	197.8	194.1	190.3	185.7	181.1	178.3	174.6	173.6	174.6	175.5
32.5°	204.3	202.4	197.8	195.0	190.3	185.7	182.0	179.2	178.3	179.2	179.2
35°	208.0	207.1	202.4	197.8	194.1	189.4	186.6	183.8	183.8	185.7	184.8
37.5°	214.5	213.6	208.9	204.3	200.6	196.8	195.0	193.1	194.1	195.0	195.0
40°	231.2	225.6	221.9	216.3	212.6	210.8	208.9	208.9	209.8	210.8	210.8
42.5°	259.1	254.4	248.8	241.4	237.7	234.9	232.1	234.9	236.8	235.8	235.8
45°	303.6	298.0	289.7	278.6	272.1	268.3	268.3	272.1	273.9	271.1	269.3
47.5°	368.6	360.3	350.0	337.0	326.8	323.1	320.3	326.8	327.8	321.3	315.7
50°	451.3	443.8	430.8	416.9	407.6	397.4	389.0	398.3	398.3	384.4	378.8
52.5°	564.5	550.6	536.7	520.9	506.0	490.2	479.1	494.9	492.1	471.7	461.5
55°	675.0	667.6	658.3	631.4	617.5	588.7	575.7	592.4	585.0	556.2	548.7
57.5°	752.1	756.7	748.4	727.0	708.4	674.1	650.9	663.9	651.8	623.0	604.5
60°	815.2	819.9	817.1	792.9	780.9	737.2	705.7	721.4	712.2	678.7	661.1
62.5°	870.9	877.4	877.4	852.4	842.2	783.7	751.2	769.7	758.6	726.1	713.1
65°	924.8	929.4	932.2	907.1	895.1	827.3	790.2	814.3	809.7	776.2	769.7
67.5°	968.4	976.8	983.3	960.1	941.5	874.6	826.4	864.4	848.7	821.7	802.2
70°	1016.7	1022.3	1032.5	1012.1	994.4	919.2	857.9	909.9	893.2	862.6	836.6
72.5°	1050.1	1052.9	1075.2	1052.9	1024.1	955.4	892.3	949.9	921.1	880.2	857.0
75°	1080.8	1085.4	1114.2	1085.4	1064.1	987.0	914.6	981.4	954.5	907.1	883.0
77.5°	1091.0	1093.8	1124.4	1092.8	1063.1	992.6	929.4	988.9	960.1	912.7	888.6
78°	1099.3	1101.2	1130.9	1099.3	1068.7	993.5	931.3	992.6	964.7	919.2	893.2
80°	1083.6	1090.1	1117.0	1089.1	1057.6	984.2	920.1	985.1	953.6	902.5	879.3
82.5°	1067.8	1072.4	1094.7	1065.9	1038.1	969.4	905.3	967.5	939.6	885.8	866.3
85°	1033.4	1042.7	1068.7	1042.7	1011.1	943.4	888.6	948.0	915.5	861.7	838.4
87.5°	1005.6	1016.7	1039.9	1021.4	989.8	920.1	862.6	924.8	894.1	841.2	818.9
90°	965.6	974.0	993.5	972.1	942.4	878.4	831.0	887.6	863.5	815.2	794.8
92.5°	911.8	920.1	939.6	917.4	891.4	827.3	781.8	838.4	806.9	766.9	744.7
95°	858.9	866.3	883.9	866.3	843.1	781.8	739.1	795.7	763.2	724.2	707.5
97.5°	792.0	797.6	813.4	793.9	774.4	715.9	676.0	727.9	698.2	666.7	646.2
100°	695.4	697.3	705.7	682.4	674.1	622.1	591.5	636.0	611.0	588.7	569.2
102.5°	536.7	519.0	518.1	507.0	494.0	452.2	441.0	465.2	467.0	448.5	437.3
105°	322.2	309.2	306.4	300.8	287.8	267.4	260.0	285.1	282.3	276.7	267.4
107.5°	208.0	204.3	204.3	199.6	192.2	180.1	174.6	184.8	181.1	178.3	174.6



REPORT NUMBER: P314617

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	169.9	168.1	168.1	163.4	159.7	149.5	144.8	151.3	148.6	146.7	143.0
112.5°	151.3	149.5	149.5	146.7	143.0	134.6	131.8	137.4	133.7	130.9	129.1
115°	139.3	138.3	137.4	134.6	131.8	124.4	121.6	127.2	124.4	121.6	120.7
117.5°	130.9	129.1	129.1	126.3	123.5	117.0	115.1	118.8	116.1	113.3	112.3
120°	122.6	121.6	120.7	118.8	116.1	109.6	107.7	110.5	108.6	105.8	104.0
122.5°	115.1	114.2	112.3	110.5	106.8	101.2	100.3	102.1	99.3	96.6	95.6
125°	106.8	104.9	104.0	101.2	97.5	92.9	91.9	92.9	90.1	87.3	86.4
127.5°	98.4	95.6	93.8	91.0	87.3	82.6	82.6	83.6	81.7	78.9	78.0
130°	87.3	85.4	82.6	79.9	76.1	72.4	72.4	73.4	71.5	69.6	69.6
132.5°	75.2	72.4	70.6	67.8	65.0	62.2	62.2	62.2	61.3	60.4	59.4
135°	62.2	60.4	57.6	55.7	52.9	51.1	51.1	52.0	51.1	49.2	49.2
137.5°	48.3	46.4	44.6	43.6	41.8	39.9	39.9	40.9	39.9	39.0	39.0
140°	37.1	35.3	34.4	33.4	31.6	30.6	30.6	30.6	30.6	29.7	29.7
142.5°	28.8	27.9	26.9	26.0	25.1	23.2	24.1	24.1	24.1	23.2	23.2
145°	21.4	20.4	19.5	18.6	18.6	17.6	17.6	17.6	17.6	17.6	16.7
147.5°	14.9	13.9	13.0	12.1	12.1	12.1	12.1	12.1	12.1	11.1	11.1
150°	8.4	7.4	6.5	5.6	5.6	5.6	5.6	6.5	5.6	5.6	5.6
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)