

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: P314621

Luminaire Tested: **MPB-A5-D-U-SYM-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314621
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-A5-D-U-SYM-7030
Description: BRECKENRIDGE POST TOP LUMINAIRE
(1) 70 CRI, 3000K LIGHT ENGINE. SYMMETRIC DISTRIBUTION.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4929 lumens
Efficiency: N/A
Efficacy: 97.4 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): 50.6
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



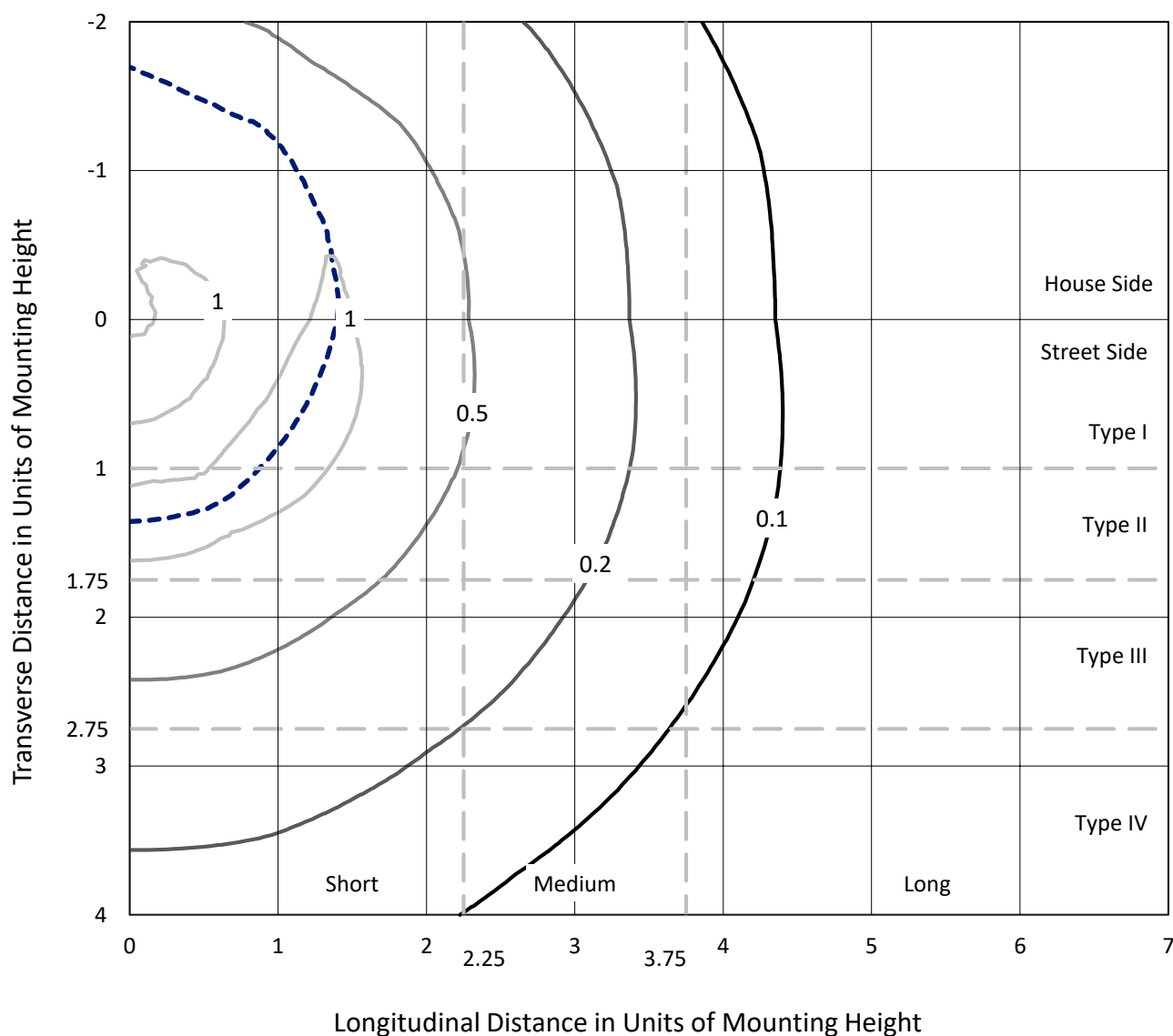
REPORT NUMBER: P314621

CATALOG NUMBER: MPB-A5-D-U-SYM-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

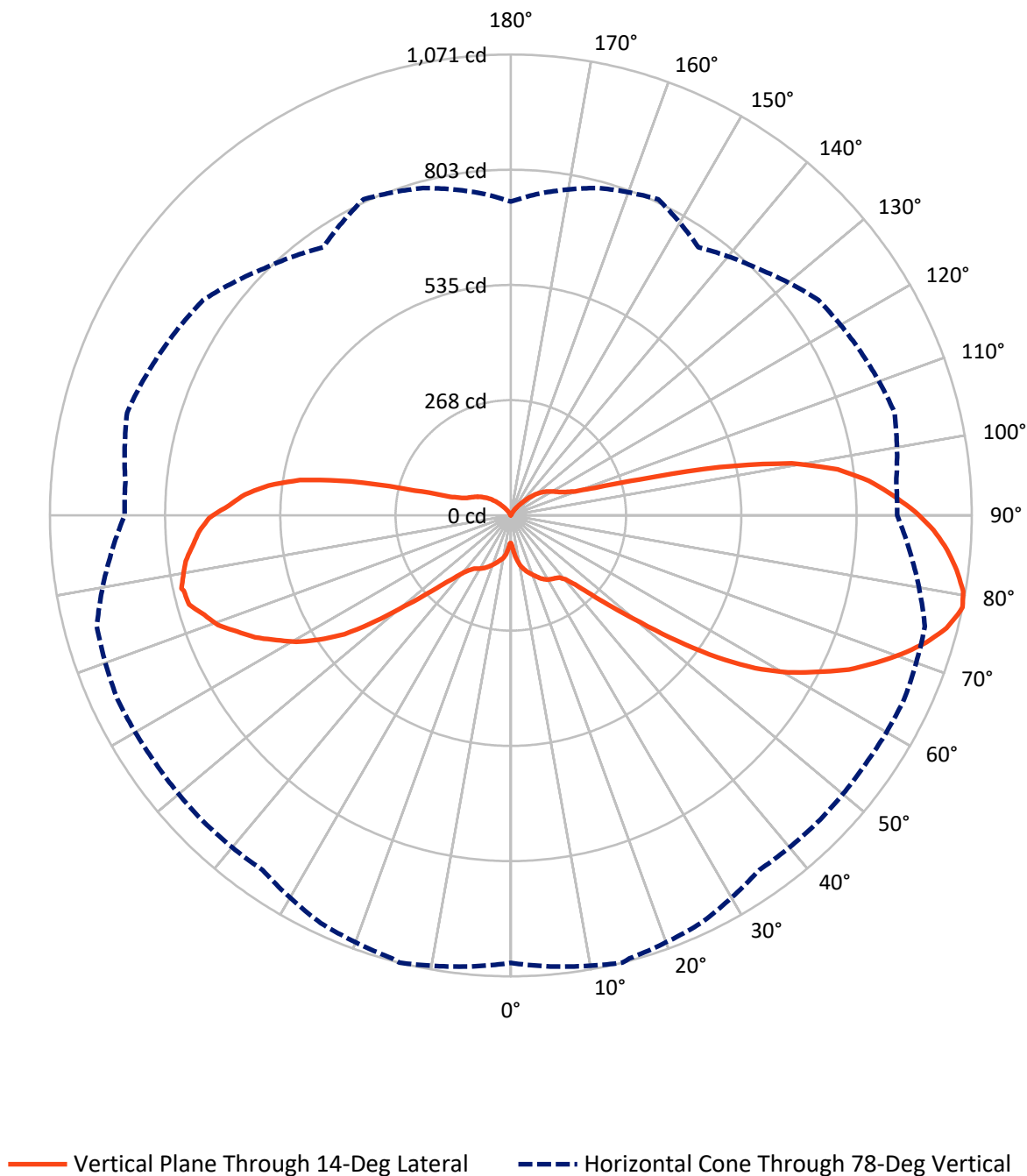


Based on 10 foot mounting height. Maximum calculated value = 1.2 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P314621

CATALOG NUMBER: MPB-A5-D-U-SYM-7030

Luminous Intensity Polar Plot



REPORT NUMBER: P314621

CATALOG NUMBER: MPB-A5-D-U-SYM-7030

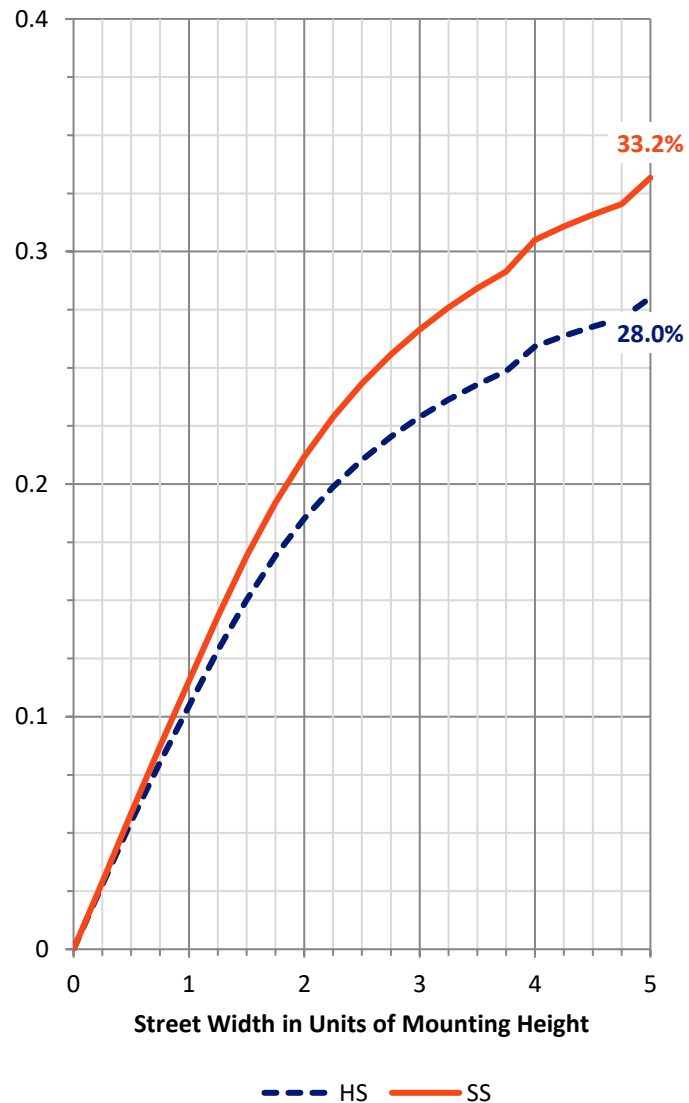
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1620.2	611.0	2231.2
	% Fixture	32.9	12.4	45.3
Street Side	Lumens	1950.1	747.6	2697.8
	% Fixture	39.6	15.2	54.7
Total	Lumens	3570.3	1358.7	4929.0
	% Fixture	72.4	27.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.8	0.2
10°-20°	35.1	0.7
20°-30°	69.0	1.4
30°-40°	105.4	2.1
40°-50°	199.9	4.1
50°-60°	482.1	9.8
60°-70°	763.1	15.5
70°-80°	953.0	19.3
80°-90°	953.9	19.4
90°-100°	783.8	15.9
100°-110°	331.9	6.7
110°-120°	115.6	2.3
120°-130°	77.1	1.6
130°-140°	38.4	0.8
140°-150°	11.3	0.2
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3570.3	72.4
0°-180°	4929.0	100.0

Coefficient of Utilization



REPORT NUMBER: P314621

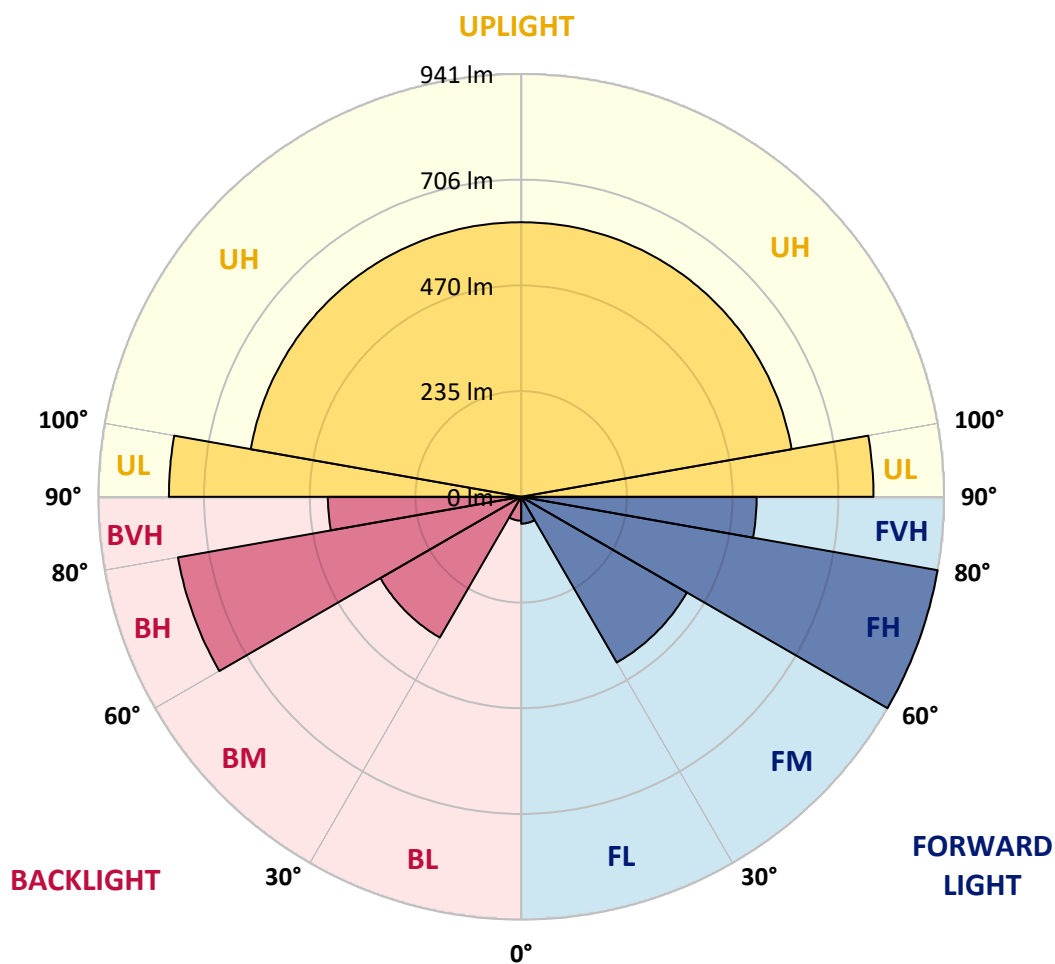
CATALOG NUMBER: MPB-A5-D-U-SYM-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	59.8	1.2			
FM	(30°-60°)	425.8	8.6			
FH	(60°-80°)	940.7	19.1			G1/1800
FVH	(80°-90°)	523.9	10.6			G4/750
BL	(0°-30°)	53.1	1.1	B0/110		
BM	(30°-60°)	361.7	7.3	B1/1000		
BH	(60°-80°)	775.3	15.7	B2/1000		G2/1000
BVH	(80°-90°)	430.0	8.7			G3/500
UL	(90°-100°)	783.8	15.9		U4/1000	
UH	(100°-180°)	611.0	12.4		U4/1000	

BUG Rating: B2-U4-G4

Type IV Short





REPORT NUMBER: P314621

CATALOG NUMBER: MPB-A5-D-U-SYM-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
0°	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4
2.5°	72.8	73.5	73.5	74.3	72.8	72.8	72.0	71.2	70.5	69.7	69.0
5°	90.9	90.9	90.9	90.9	89.4	90.2	89.4	87.9	86.4	86.4	84.9
7.5°	105.3	105.3	105.3	105.3	104.6	104.6	103.8	103.1	101.6	100.8	100.0
10°	115.9	116.7	117.5	117.5	116.7	115.9	114.4	113.7	112.9	111.4	109.1
12.5°	125.8	126.6	126.6	126.6	125.8	125.0	123.5	122.0	121.3	119.7	118.2
15°	134.1	134.1	134.1	133.4	132.6	131.9	130.3	129.6	128.1	126.6	125.0
17.5°	140.2	141.0	141.0	140.2	138.7	138.7	136.4	136.4	134.9	133.4	131.9
20°	147.8	147.8	147.8	147.0	146.3	145.5	143.2	142.5	141.7	140.2	138.7
22.5°	155.4	155.4	154.6	154.6	153.1	152.3	150.8	150.1	148.5	147.0	146.3
25°	163.7	163.7	162.2	162.2	160.7	159.1	157.6	156.9	155.4	154.6	153.8
27.5°	169.8	169.8	168.2	167.5	166.7	164.5	163.7	162.2	160.7	159.9	159.1
30°	175.1	174.3	172.8	172.8	171.3	169.0	167.5	166.0	164.5	164.5	164.5
32.5°	178.1	177.3	175.8	175.1	172.8	171.3	169.8	168.2	166.7	167.5	167.5
35°	181.1	181.1	178.9	178.1	175.8	173.5	171.3	169.8	169.0	169.8	170.5
37.5°	186.4	185.7	183.4	182.6	179.6	178.9	177.3	176.6	175.8	176.6	176.6
40°	197.8	197.8	195.5	194.8	192.5	193.2	192.5	193.2	191.7	193.2	191.0
42.5°	219.8	221.3	219.0	217.5	216.0	219.0	222.0	221.3	219.8	220.5	215.2
45°	258.4	261.5	262.2	259.9	255.4	263.7	268.3	269.0	265.2	263.0	254.6
47.5°	316.8	321.3	319.1	319.1	311.5	323.6	329.7	333.4	327.4	323.6	310.0
50°	390.3	397.9	390.3	393.3	379.7	400.9	410.7	413.0	407.7	399.4	382.0
52.5°	481.2	487.3	485.0	482.7	468.3	496.4	513.8	522.9	513.8	501.7	475.2
55°	584.3	583.5	582.0	584.3	570.7	593.4	619.9	625.2	622.2	597.2	566.9
57.5°	669.2	669.9	669.9	669.9	653.3	673.0	697.2	701.0	696.5	674.5	634.3
60°	735.1	737.4	740.4	741.9	726.0	735.1	760.9	760.1	755.6	728.3	694.2
62.5°	791.2	795.0	801.0	801.0	791.2	788.9	812.4	809.4	807.1	781.3	741.9
65°	847.3	851.1	863.2	862.4	851.1	840.4	866.2	863.9	858.6	832.9	785.9
67.5°	895.0	900.3	914.0	915.5	907.1	894.3	910.2	904.1	901.1	873.8	822.3
70°	945.8	953.4	964.0	964.0	944.3	934.4	948.8	945.0	948.8	921.5	862.4
72.5°	984.4	987.5	1009.4	1011.7	989.0	967.0	983.7	974.6	977.6	948.1	889.7
75°	1024.6	1028.4	1045.8	1045.8	1014.7	995.0	1007.2	1003.4	1008.7	984.4	916.2
77.5°	1039.8	1049.6	1067.8	1064.0	1042.0	1007.9	1020.8	1019.3	1022.3	992.0	925.3
78°	1039.8	1051.9	1070.8	1065.5	1045.1	1005.7	1007.9	1006.4	1008.7	995.8	929.9
80°	1036.7	1054.2	1065.5	1058.7	1041.3	997.3	995.8	996.6	1001.1	987.5	917.7
82.5°	1013.2	1031.4	1043.5	1040.5	1025.4	977.6	985.2	993.5	1003.4	979.1	908.6
85°	992.0	1011.0	1017.0	1014.7	997.3	948.1	954.1	965.5	960.9	943.5	880.6
87.5°	964.0	980.6	982.9	981.4	966.2	919.3	923.8	931.4	935.9	926.1	857.1
90°	919.3	934.4	939.7	939.7	923.8	883.6	894.3	904.9	913.2	894.3	826.0
92.5°	870.0	883.6	888.9	888.9	875.3	835.9	842.7	856.4	857.9	842.7	779.8
95°	817.7	826.0	835.9	834.4	817.7	779.1	785.9	802.6	804.8	791.2	735.1
97.5°	751.8	754.8	766.9	764.7	748.0	719.9	729.8	745.0	746.5	732.8	678.3
100°	654.0	653.3	663.9	663.9	648.0	630.5	644.2	663.1	660.8	647.2	601.0
102.5°	491.8	482.7	497.9	496.4	491.8	485.0	498.7	516.8	521.4	511.5	464.6
105°	312.2	306.9	311.5	308.4	306.2	293.3	298.6	304.7	300.1	303.9	278.1
107.5°	206.1	203.1	206.1	205.4	200.8	194.8	194.0	195.5	194.8	191.7	177.3



REPORT NUMBER: P314621

CATALOG NUMBER: MPB-A5-D-U-SYM-7030

CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	158.4	156.9	159.1	158.4	156.1	153.1	152.3	153.8	153.8	151.6	143.2
112.5°	137.2	136.4	138.7	137.9	136.4	134.1	134.1	134.9	135.7	133.4	127.3
115°	123.5	124.3	125.8	125.8	124.3	121.3	122.0	123.5	123.5	122.0	117.5
117.5°	115.2	115.9	117.5	116.7	115.2	113.7	113.7	115.2	116.7	114.4	110.6
120°	108.4	108.4	109.9	109.1	107.6	106.9	107.6	109.1	109.9	107.6	103.8
122.5°	100.8	101.6	102.3	102.3	100.8	100.8	102.3	103.1	103.8	101.6	97.0
125°	92.5	93.2	94.0	94.0	93.2	94.0	94.7	95.5	97.0	94.7	90.2
127.5°	83.4	84.1	84.9	84.9	84.9	85.6	87.2	87.9	89.4	87.2	82.6
130°	72.8	73.5	75.0	74.3	75.0	76.5	78.8	78.8	79.6	78.1	73.5
132.5°	61.4	62.1	63.7	63.7	64.4	66.7	68.2	68.2	69.0	67.4	63.7
135°	49.3	50.0	52.3	52.3	53.8	55.3	56.8	56.8	57.6	56.1	52.3
137.5°	38.6	38.6	40.9	40.9	42.4	43.2	44.0	44.0	44.7	44.0	40.9
140°	30.3	30.3	32.6	31.8	33.3	33.3	33.3	33.3	34.1	33.3	31.1
142.5°	23.5	24.3	25.8	25.0	26.5	26.5	26.5	25.8	27.3	26.5	24.3
145°	18.2	18.2	19.7	18.9	19.7	20.5	20.5	19.7	20.5	19.7	18.2
147.5°	12.1	12.1	13.6	12.9	13.6	14.4	15.2	14.4	15.2	14.4	12.9
150°	6.1	6.1	7.6	6.8	7.6	8.3	9.1	9.1	9.1	8.3	6.8
152.5°	0.0	0.0	0.8	0.8	0.8	1.5	1.5	1.5	2.3	2.3	1.5
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	0.8	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	0.8	0.0	0.0	0.0	0.8	0.8
177.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.8
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: P314621

CATALOG NUMBER: MPB-A5-D-U-SYM-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4
2.5°	68.2	68.2	69.0	68.2	67.4	66.7	65.9	65.2	65.2	63.7	64.4
5°	84.9	84.1	83.4	81.8	81.1	80.3	79.6	78.8	78.8	78.8	79.6
7.5°	99.3	98.5	96.2	94.0	94.0	93.2	92.5	91.7	90.9	89.4	89.4
10°	108.4	107.6	106.1	105.3	103.8	103.1	102.3	100.8	99.3	96.2	96.2
12.5°	116.7	115.9	113.7	112.9	112.2	110.6	109.1	107.6	104.6	102.3	101.6
15°	124.3	122.8	120.5	119.7	118.2	115.9	114.4	112.9	109.9	106.9	106.1
17.5°	130.3	128.8	127.3	125.8	123.5	121.3	119.0	117.5	115.2	112.9	112.2
20°	137.2	135.7	134.1	131.9	129.6	127.3	125.0	122.8	121.3	119.0	119.0
22.5°	144.7	143.2	141.0	139.4	135.7	133.4	130.3	128.1	126.6	125.8	125.0
25°	152.3	150.8	147.8	145.5	141.7	138.7	136.4	133.4	131.9	132.6	132.6
27.5°	158.4	156.1	153.1	150.8	147.0	144.0	141.0	138.7	137.2	137.9	137.9
30°	162.9	161.4	158.4	155.4	151.6	147.8	145.5	142.5	141.7	142.5	143.2
32.5°	166.7	165.2	161.4	159.1	155.4	151.6	148.5	146.3	145.5	146.3	146.3
35°	169.8	169.0	165.2	161.4	158.4	154.6	152.3	150.1	150.1	151.6	150.8
37.5°	175.1	174.3	170.5	166.7	163.7	160.7	159.1	157.6	158.4	159.1	159.1
40°	188.7	184.2	181.1	176.6	173.5	172.0	170.5	170.5	171.3	172.0	172.0
42.5°	211.4	207.6	203.1	197.0	194.0	191.7	189.5	191.7	193.2	192.5	192.5
45°	247.8	243.3	236.4	227.4	222.0	219.0	219.0	222.0	223.6	221.3	219.8
47.5°	300.9	294.0	285.7	275.1	266.8	263.7	261.5	266.8	267.5	262.2	257.7
50°	368.3	362.2	351.6	340.3	332.7	324.4	317.5	325.1	325.1	313.7	309.2
52.5°	460.8	449.4	438.0	425.1	413.0	400.1	391.0	403.9	401.7	385.0	376.6
55°	550.9	544.9	537.3	515.3	504.0	480.5	469.9	483.5	477.4	453.9	447.9
57.5°	613.8	617.6	610.8	593.4	578.2	550.2	531.2	541.9	532.0	508.5	493.4
60°	665.4	669.2	666.9	647.2	637.3	601.7	576.0	588.8	581.3	554.0	539.6
62.5°	710.9	716.2	716.2	695.7	687.4	639.6	613.1	628.2	619.2	592.6	582.0
65°	754.8	758.6	760.9	740.4	730.6	675.2	644.9	664.6	660.8	633.6	628.2
67.5°	790.4	797.2	802.6	783.6	768.4	713.9	674.5	705.5	692.7	670.7	654.8
70°	829.8	834.4	842.7	826.0	811.6	750.3	700.2	742.7	729.0	704.0	682.8
72.5°	857.1	859.4	877.6	859.4	835.9	779.8	728.3	775.3	751.8	718.4	699.5
75°	882.1	885.9	909.4	885.9	868.5	805.6	746.5	801.0	779.1	740.4	720.7
77.5°	890.5	892.7	917.7	892.0	867.7	810.1	758.6	807.1	783.6	745.0	725.3
78°	897.3	898.8	923.0	897.3	872.3	810.9	760.1	810.1	787.4	750.3	729.0
80°	884.4	889.7	911.7	888.9	863.2	803.3	751.0	804.1	778.3	736.6	717.7
82.5°	871.5	875.3	893.5	870.0	847.3	791.2	738.9	789.7	766.9	723.0	707.1
85°	843.5	851.1	872.3	851.1	825.3	770.0	725.3	773.8	747.2	703.3	684.3
87.5°	820.7	829.8	848.8	833.6	807.9	751.0	704.0	754.8	729.8	686.6	668.4
90°	788.2	795.0	810.9	793.5	769.2	716.9	678.3	724.5	704.8	665.4	648.7
92.5°	744.2	751.0	766.9	748.7	727.5	675.2	638.1	684.3	658.6	626.0	607.8
95°	701.0	707.1	721.5	707.1	688.1	638.1	603.2	649.5	622.9	591.1	577.5
97.5°	646.4	651.0	663.9	648.0	632.0	584.3	551.7	594.1	569.9	544.1	527.5
100°	567.6	569.1	576.0	557.0	550.2	507.8	482.7	519.1	498.7	480.5	464.6
102.5°	438.0	423.6	422.9	413.8	403.2	369.1	360.0	379.7	381.2	366.0	356.9
105°	263.0	252.4	250.1	245.5	234.9	218.3	212.2	232.7	230.4	225.8	218.3
107.5°	169.8	166.7	166.7	162.9	156.9	147.0	142.5	150.8	147.8	145.5	142.5



REPORT NUMBER: P314621

CATALOG NUMBER: MPB-A5-D-U-SYM-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	138.7	137.2	137.2	133.4	130.3	122.0	118.2	123.5	121.3	119.7	116.7
112.5°	123.5	122.0	122.0	119.7	116.7	109.9	107.6	112.2	109.1	106.9	105.3
115°	113.7	112.9	112.2	109.9	107.6	101.6	99.3	103.8	101.6	99.3	98.5
117.5°	106.9	105.3	105.3	103.1	100.8	95.5	94.0	97.0	94.7	92.5	91.7
120°	100.0	99.3	98.5	97.0	94.7	89.4	87.9	90.2	88.7	86.4	84.9
122.5°	94.0	93.2	91.7	90.2	87.2	82.6	81.8	83.4	81.1	78.8	78.1
125°	87.2	85.6	84.9	82.6	79.6	75.8	75.0	75.8	73.5	71.2	70.5
127.5°	80.3	78.1	76.5	74.3	71.2	67.4	67.4	68.2	66.7	64.4	63.7
130°	71.2	69.7	67.4	65.2	62.1	59.1	59.1	59.9	58.4	56.8	56.8
132.5°	61.4	59.1	57.6	55.3	53.0	50.8	50.8	50.8	50.0	49.3	48.5
135°	50.8	49.3	47.0	45.5	43.2	41.7	41.7	42.4	41.7	40.2	40.2
137.5°	39.4	37.9	36.4	35.6	34.1	32.6	32.6	33.3	32.6	31.8	31.8
140°	30.3	28.8	28.0	27.3	25.8	25.0	25.0	25.0	25.0	24.3	24.3
142.5°	23.5	22.7	22.0	21.2	20.5	18.9	19.7	19.7	19.7	18.9	18.9
145°	17.4	16.7	15.9	15.2	15.2	14.4	14.4	14.4	14.4	14.4	13.6
147.5°	12.1	11.4	10.6	9.9	9.9	9.9	9.9	9.9	9.9	9.1	9.1
150°	6.8	6.1	5.3	4.5	4.5	4.5	4.5	5.3	4.5	4.5	4.5
152.5°	1.5	0.8	0.8	0.8	0.8	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	0.8	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)