

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: P314627

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314627
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
Description: BRECKENRIDGE POST TOP LUMINAIRE
(1) 70 CRI, 4000K LIGHT ENGINE. SYMMETRIC DISTRIBUTION.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5055 lumens
Efficiency: N/A
Efficacy: 99.9 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): 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



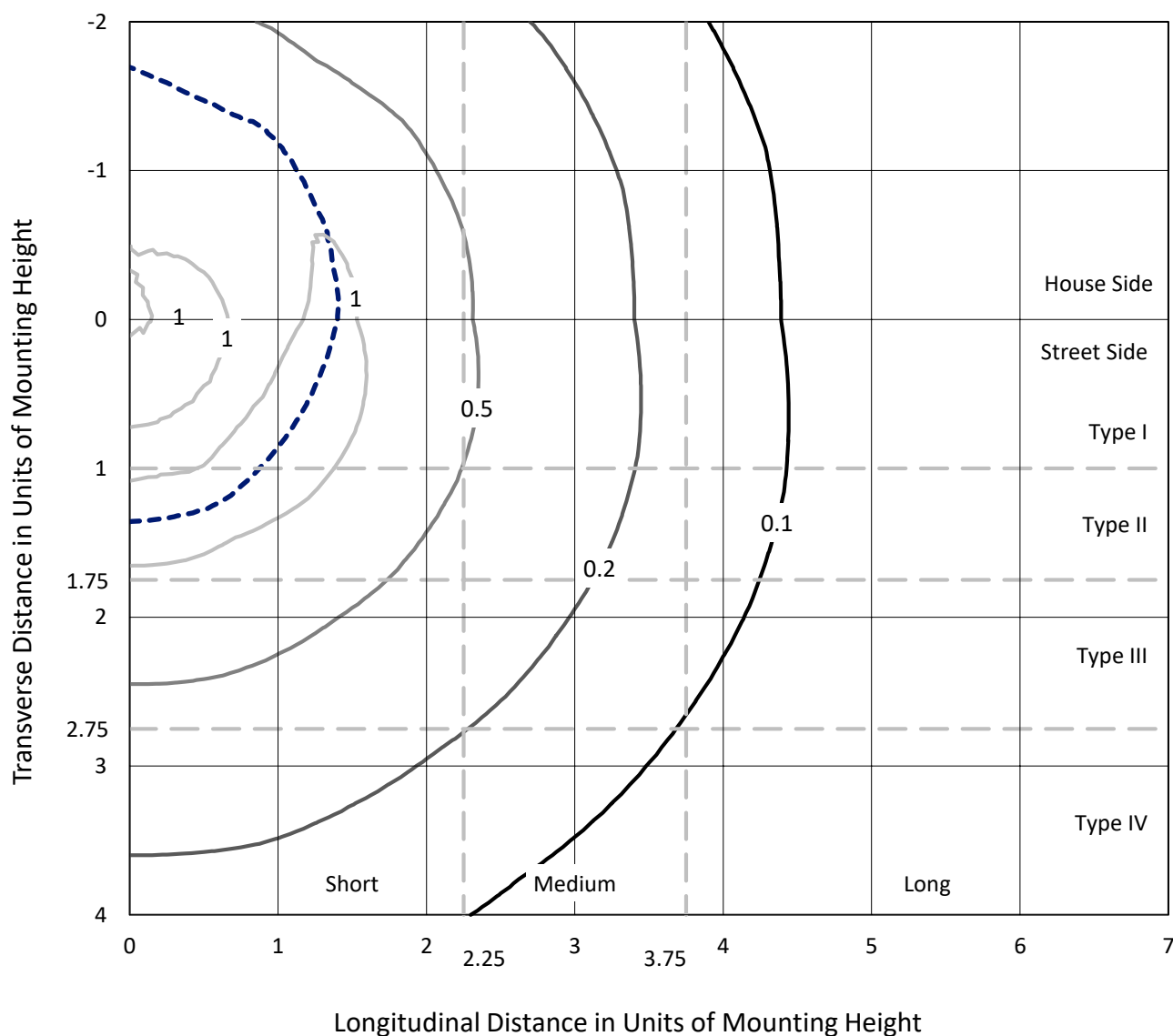
REPORT NUMBER: P314627

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

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

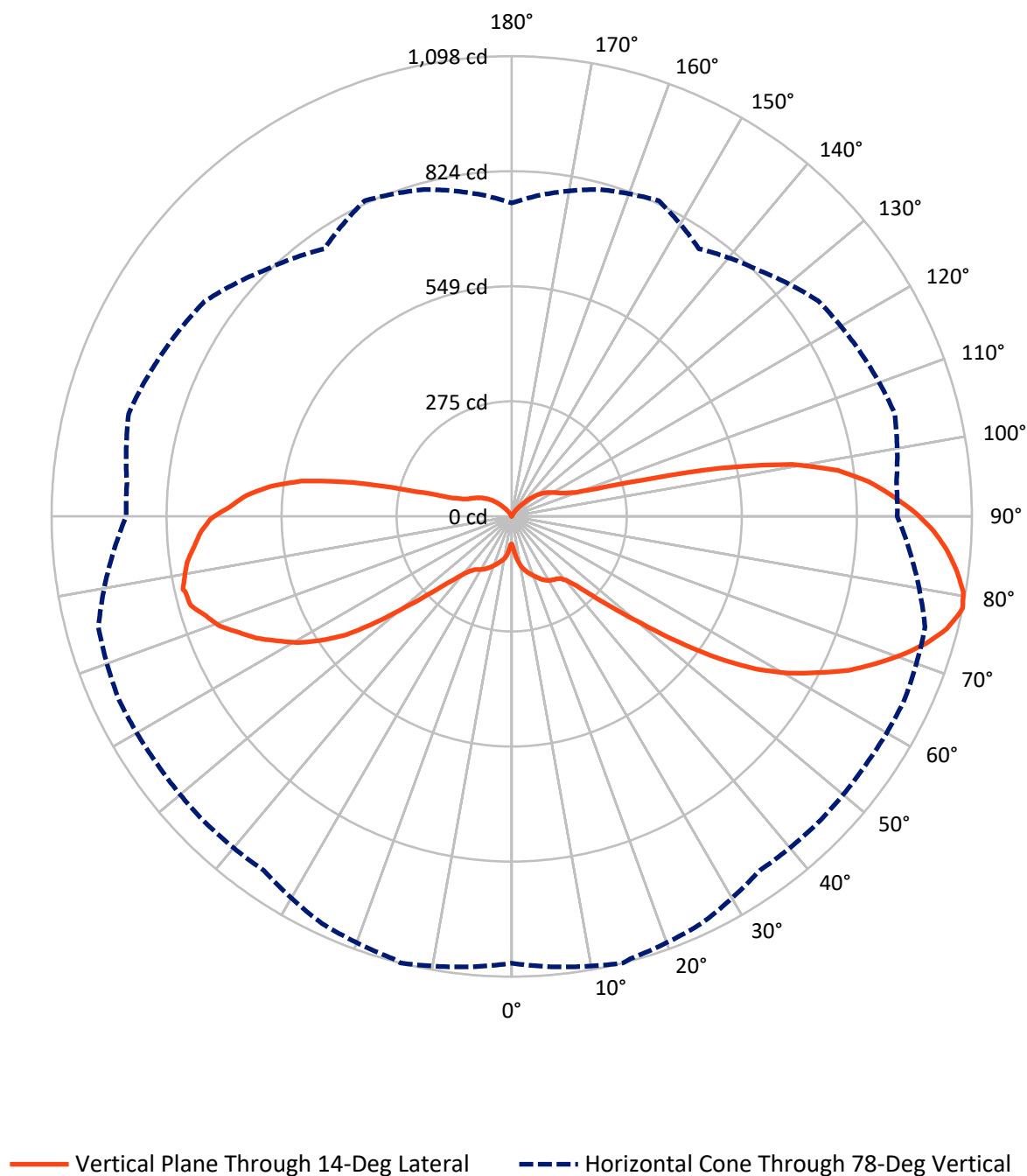


Based on 10 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P314627

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

Luminous Intensity Polar Plot



REPORT NUMBER: P314627

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

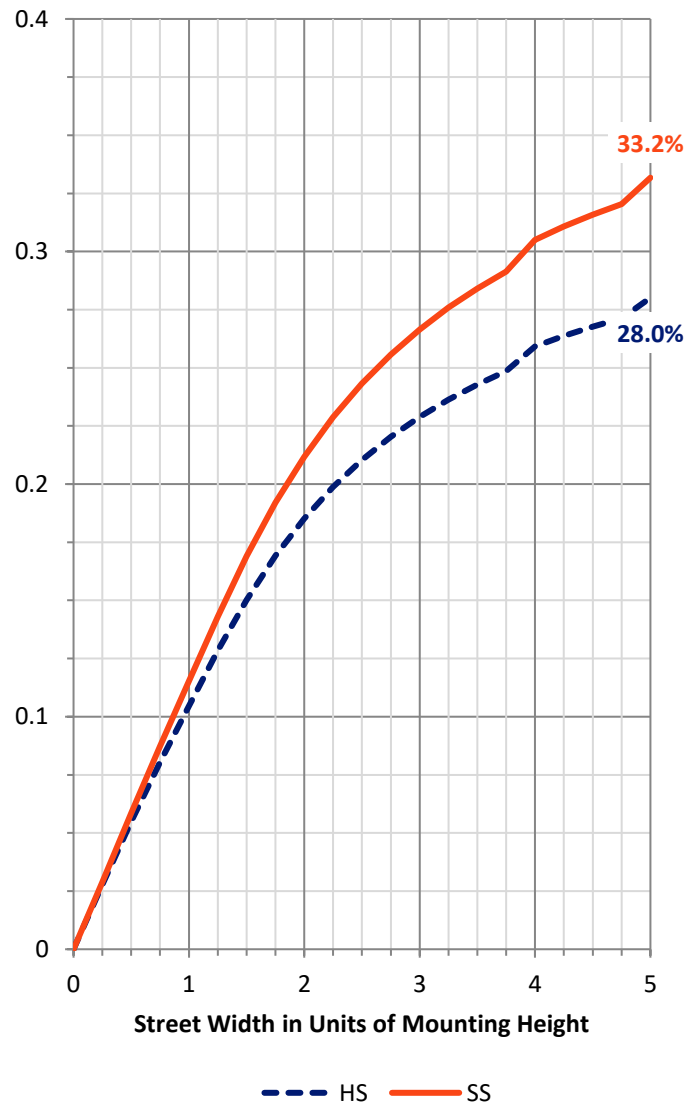
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1661.6	626.6	2288.2
	% Fixture	32.9	12.4	45.3
Street Side	Lumens	2000.0	766.8	2766.8
	% Fixture	39.6	15.2	54.7
Total	Lumens	3661.6	1393.4	5055.0
	% Fixture	72.4	27.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.0	0.2
10°-20°	36.0	0.7
20°-30°	70.7	1.4
30°-40°	108.1	2.1
40°-50°	205.0	4.1
50°-60°	494.5	9.8
60°-70°	782.6	15.5
70°-80°	977.3	19.3
80°-90°	978.3	19.4
90°-100°	803.9	15.9
100°-110°	340.4	6.7
110°-120°	118.6	2.3
120°-130°	79.0	1.6
130°-140°	39.4	0.8
140°-150°	11.6	0.2
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3661.6	72.4
0°-180°	5055.0	100.0

Coefficient of Utilization



REPORT NUMBER: P314627

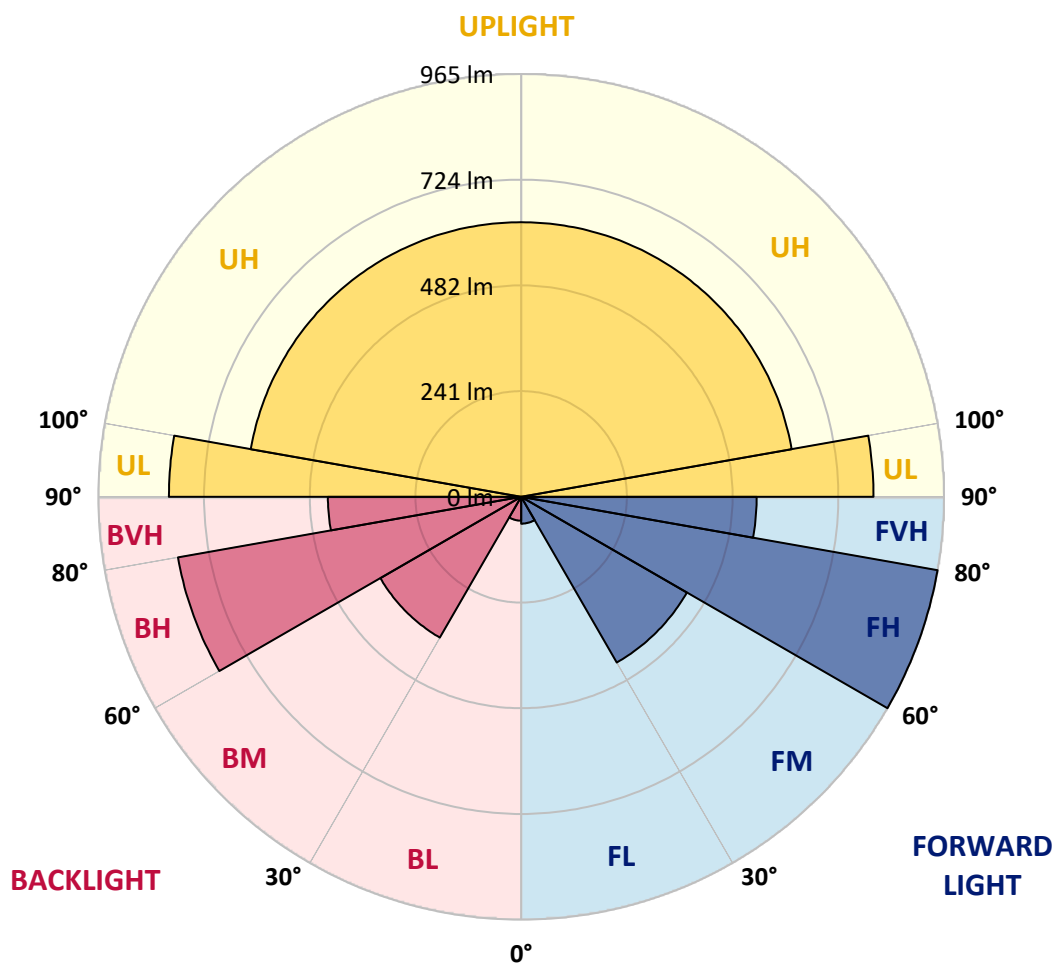
CATALOG NUMBER: MPB-A5-D-U-SYM

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	61.3	1.2			
FM	(30°-60°)	436.6	8.6			
FH	(60°-80°)	964.8	19.1			G1/1800
FVH	(80°-90°)	537.3	10.6			G4/750
BL	(0°-30°)	54.5	1.1	B0/110		
BM	(30°-60°)	371.0	7.3	B1/1000		
BH	(60°-80°)	795.1	15.7	B2/1000		G2/1000
BVH	(80°-90°)	441.0	8.7			G3/500
UL	(90°-100°)	803.9	15.9		U4/1000	
UH	(100°-180°)	626.6	12.4		U4/1000	

BUG Rating: B2-U4-G4

Type IV Short





REPORT NUMBER: P314627

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
0°	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
2.5°	74.6	75.4	75.4	76.2	74.6	74.6	73.8	73.1	72.3	71.5	70.7
5°	93.3	93.3	93.3	93.3	91.7	92.5	91.7	90.2	88.6	88.6	87.0
7.5°	108.0	108.0	108.0	108.0	107.3	107.3	106.5	105.7	104.1	103.4	102.6
10°	118.9	119.7	120.5	120.5	119.7	118.9	117.4	116.6	115.8	114.3	111.9
12.5°	129.0	129.8	129.8	129.8	129.0	128.2	126.7	125.1	124.4	122.8	121.2
15°	137.6	137.6	137.6	136.8	136.0	135.2	133.7	132.9	131.3	129.8	128.2
17.5°	143.8	144.6	144.6	143.8	142.2	142.2	139.9	139.9	138.3	136.8	135.2
20°	151.6	151.6	151.6	150.8	150.0	149.2	146.9	146.1	145.3	143.8	142.2
22.5°	159.3	159.3	158.6	158.6	157.0	156.2	154.7	153.9	152.3	150.8	150.0
25°	167.9	167.9	166.3	166.3	164.8	163.2	161.7	160.9	159.3	158.6	157.8
27.5°	174.1	174.1	172.5	171.8	171.0	168.7	167.9	166.3	164.8	164.0	163.2
30°	179.5	178.8	177.2	177.2	175.6	173.3	171.8	170.2	168.7	168.7	168.7
32.5°	182.6	181.9	180.3	179.5	177.2	175.6	174.1	172.5	171.0	171.8	171.8
35°	185.8	185.8	183.4	182.6	180.3	178.0	175.6	174.1	173.3	174.1	174.9
37.5°	191.2	190.4	188.1	187.3	184.2	183.4	181.9	181.1	180.3	181.1	181.1
40°	202.9	202.9	200.5	199.7	197.4	198.2	197.4	198.2	196.6	198.2	195.9
42.5°	225.4	226.9	224.6	223.1	221.5	224.6	227.7	226.9	225.4	226.2	220.7
45°	265.0	268.1	268.9	266.6	261.9	270.5	275.1	275.9	272.0	269.7	261.1
47.5°	324.9	329.5	327.2	327.2	319.4	331.9	338.1	342.0	335.8	331.9	317.9
50°	400.3	408.0	400.3	403.4	389.4	411.1	421.2	423.6	418.1	409.6	391.7
52.5°	493.5	499.7	497.4	495.1	480.3	509.1	526.9	536.3	526.9	514.5	487.3
55°	599.2	598.5	596.9	599.2	585.2	608.6	635.8	641.2	638.1	612.4	581.4
57.5°	686.3	687.1	687.1	687.1	670.0	690.2	715.0	718.9	714.3	691.7	650.5
60°	753.9	756.2	759.3	760.9	744.6	753.9	780.3	779.5	774.9	746.9	711.9
62.5°	811.4	815.3	821.5	821.5	811.4	809.1	833.2	830.1	827.7	801.3	760.9
65°	868.9	872.8	885.2	884.5	872.8	861.9	888.4	886.0	880.6	854.2	806.0
67.5°	917.9	923.3	937.3	938.9	930.3	917.1	933.4	927.2	924.1	896.1	843.3
70°	970.0	977.7	988.6	988.6	968.4	958.3	973.1	969.2	973.1	945.1	884.5
72.5°	1009.6	1012.7	1035.2	1037.6	1014.3	991.7	1008.8	999.5	1002.6	972.3	912.4
75°	1050.8	1054.7	1072.6	1072.6	1040.7	1020.5	1032.9	1029.0	1034.5	1009.6	939.6
77.5°	1066.3	1076.4	1095.1	1091.2	1068.7	1033.7	1046.9	1045.3	1048.5	1017.4	949.0
78°	1066.3	1078.8	1098.2	1092.8	1071.8	1031.4	1033.7	1032.1	1034.5	1021.3	953.6
80°	1063.2	1081.1	1092.8	1085.8	1067.9	1022.8	1021.3	1022.0	1026.7	1012.7	941.2
82.5°	1039.1	1057.8	1070.2	1067.1	1051.6	1002.6	1010.4	1018.9	1029.0	1004.2	931.9
85°	1017.4	1036.8	1043.0	1040.7	1022.8	972.3	978.5	990.2	985.5	967.6	903.1
87.5°	988.6	1005.7	1008.0	1006.5	990.9	942.8	947.4	955.2	959.9	949.8	879.0
90°	942.8	958.3	963.7	963.7	947.4	906.2	917.1	928.0	936.5	917.1	847.2
92.5°	892.2	906.2	911.7	911.7	897.7	857.3	864.3	878.2	879.8	864.3	799.8
95°	838.6	847.2	857.3	855.7	838.6	799.0	806.0	823.1	825.4	811.4	753.9
97.5°	771.0	774.1	786.5	784.2	767.1	738.4	748.5	764.0	765.6	751.6	695.6
100°	670.7	670.0	680.8	680.8	664.5	646.6	660.6	680.1	677.7	663.7	616.3
102.5°	504.4	495.1	510.6	509.1	504.4	497.4	511.4	530.1	534.7	524.6	476.4
105°	320.2	314.8	319.4	316.3	314.0	300.8	306.2	312.4	307.8	311.7	285.2
107.5°	211.4	208.3	211.4	210.6	206.0	199.7	199.0	200.5	199.7	196.6	181.9



REPORT NUMBER: P314627

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

CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	162.4	160.9	163.2	162.4	160.1	157.0	156.2	157.8	157.8	155.4	146.9
112.5°	140.7	139.9	142.2	141.5	139.9	137.6	137.6	138.3	139.1	136.8	130.6
115°	126.7	127.5	129.0	129.0	127.5	124.4	125.1	126.7	126.7	125.1	120.5
117.5°	118.1	118.9	120.5	119.7	118.1	116.6	116.6	118.1	119.7	117.4	113.5
120°	111.1	111.1	112.7	111.9	110.4	109.6	110.4	111.9	112.7	110.4	106.5
122.5°	103.4	104.1	104.9	104.9	103.4	103.4	104.9	105.7	106.5	104.1	99.5
125°	94.8	95.6	96.4	96.4	95.6	96.4	97.2	97.9	99.5	97.2	92.5
127.5°	85.5	86.3	87.0	87.0	87.0	87.8	89.4	90.2	91.7	89.4	84.7
130°	74.6	75.4	76.9	76.2	76.9	78.5	80.8	80.8	81.6	80.1	75.4
132.5°	63.0	63.7	65.3	65.3	66.1	68.4	69.9	69.9	70.7	69.2	65.3
135°	50.5	51.3	53.6	53.6	55.2	56.7	58.3	58.3	59.1	57.5	53.6
137.5°	39.6	39.6	42.0	42.0	43.5	44.3	45.1	45.1	45.9	45.1	42.0
140°	31.1	31.1	33.4	32.6	34.2	34.2	34.2	34.2	35.0	34.2	31.9
142.5°	24.1	24.9	26.4	25.6	27.2	27.2	27.2	26.4	28.0	27.2	24.9
145°	18.7	18.7	20.2	19.4	20.2	21.0	21.0	20.2	21.0	20.2	18.7
147.5°	12.4	12.4	14.0	13.2	14.0	14.8	15.5	14.8	15.5	14.8	13.2
150°	6.2	6.2	7.8	7.0	7.8	8.5	9.3	9.3	9.3	8.5	7.0
152.5°	0.0	0.0	0.8	0.8	0.8	1.6	1.6	1.6	2.3	2.3	1.6
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: P314627

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
2.5°	69.9	69.9	70.7	69.9	69.2	68.4	67.6	66.8	66.8	65.3	66.1
5°	87.0	86.3	85.5	83.9	83.2	82.4	81.6	80.8	80.8	80.8	81.6
7.5°	101.8	101.0	98.7	96.4	96.4	95.6	94.8	94.0	93.3	91.7	91.7
10°	111.1	110.4	108.8	108.0	106.5	105.7	104.9	103.4	101.8	98.7	98.7
12.5°	119.7	118.9	116.6	115.8	115.0	113.5	111.9	110.4	107.3	104.9	104.1
15°	127.5	125.9	123.6	122.8	121.2	118.9	117.4	115.8	112.7	109.6	108.8
17.5°	133.7	132.1	130.6	129.0	126.7	124.4	122.0	120.5	118.1	115.8	115.0
20°	140.7	139.1	137.6	135.2	132.9	130.6	128.2	125.9	124.4	122.0	122.0
22.5°	148.4	146.9	144.6	143.0	139.1	136.8	133.7	131.3	129.8	129.0	128.2
25°	156.2	154.7	151.6	149.2	145.3	142.2	139.9	136.8	135.2	136.0	136.0
27.5°	162.4	160.1	157.0	154.7	150.8	147.7	144.6	142.2	140.7	141.5	141.5
30°	167.1	165.5	162.4	159.3	155.4	151.6	149.2	146.1	145.3	146.1	146.9
32.5°	171.0	169.4	165.5	163.2	159.3	155.4	152.3	150.0	149.2	150.0	150.0
35°	174.1	173.3	169.4	165.5	162.4	158.6	156.2	153.9	153.9	155.4	154.7
37.5°	179.5	178.8	174.9	171.0	167.9	164.8	163.2	161.7	162.4	163.2	163.2
40°	193.5	188.9	185.8	181.1	178.0	176.4	174.9	174.9	175.6	176.4	176.4
42.5°	216.8	213.0	208.3	202.1	199.0	196.6	194.3	196.6	198.2	197.4	197.4
45°	254.1	249.5	242.5	233.2	227.7	224.6	224.6	227.7	229.3	226.9	225.4
47.5°	308.6	301.6	293.0	282.1	273.6	270.5	268.1	273.6	274.4	268.9	264.3
50°	377.7	371.5	360.6	349.0	341.2	332.6	325.7	333.4	333.4	321.8	317.1
52.5°	472.5	460.9	449.2	436.0	423.6	410.4	401.0	414.3	411.9	394.8	386.3
55°	565.0	558.8	551.0	528.5	516.8	492.8	481.9	495.9	489.6	465.5	459.3
57.5°	629.5	633.4	626.4	608.6	593.0	564.3	544.8	555.7	545.6	521.5	506.0
60°	682.4	686.3	683.9	663.7	653.6	617.1	590.7	603.9	596.1	568.1	553.4
62.5°	729.0	734.5	734.5	713.5	704.9	656.0	628.8	644.3	635.0	607.8	596.9
65°	774.1	778.0	780.3	759.3	749.2	692.5	661.4	681.6	677.7	649.7	644.3
67.5°	810.6	817.6	823.1	803.6	788.1	732.1	691.7	723.6	710.4	687.8	671.5
70°	851.0	855.7	864.3	847.2	832.4	769.4	718.1	761.7	747.7	722.0	700.3
72.5°	879.0	881.4	900.0	881.4	857.3	799.8	746.9	795.1	771.0	736.8	717.4
75°	904.7	908.6	932.7	908.6	890.7	826.2	765.6	821.5	799.0	759.3	739.1
77.5°	913.2	915.6	941.2	914.8	889.9	830.8	778.0	827.7	803.6	764.0	743.8
78°	920.2	921.8	946.6	920.2	894.6	831.6	779.5	830.8	807.5	769.4	747.7
80°	907.0	912.4	935.0	911.7	885.2	823.8	770.2	824.6	798.2	755.4	736.0
82.5°	893.8	897.7	916.3	892.2	868.9	811.4	757.8	809.9	786.5	741.5	725.1
85°	865.0	872.8	894.6	872.8	846.4	789.6	743.8	793.5	766.3	721.3	701.8
87.5°	841.7	851.0	870.5	854.9	828.5	770.2	722.0	774.1	748.5	704.2	685.5
90°	808.3	815.3	831.6	813.7	788.9	735.2	695.6	743.0	722.8	682.4	665.3
92.5°	763.2	770.2	786.5	767.9	746.1	692.5	654.4	701.8	675.4	642.0	623.3
95°	718.9	725.1	739.9	725.1	705.7	654.4	618.7	666.1	638.9	606.2	592.2
97.5°	663.0	667.6	680.8	664.5	648.2	599.2	565.8	609.3	584.5	558.0	540.9
100°	582.1	583.7	590.7	571.3	564.3	520.7	495.1	532.4	511.4	492.8	476.4
102.5°	449.2	434.5	433.7	424.4	413.5	378.5	369.2	389.4	390.9	375.4	366.1
105°	269.7	258.8	256.5	251.8	240.9	223.8	217.6	238.6	236.3	231.6	223.8
107.5°	174.1	171.0	171.0	167.1	160.9	150.8	146.1	154.7	151.6	149.2	146.1



REPORT NUMBER: P314627

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	142.2	140.7	140.7	136.8	133.7	125.1	121.2	126.7	124.4	122.8	119.7
112.5°	126.7	125.1	125.1	122.8	119.7	112.7	110.4	115.0	111.9	109.6	108.0
115°	116.6	115.8	115.0	112.7	110.4	104.1	101.8	106.5	104.1	101.8	101.0
117.5°	109.6	108.0	108.0	105.7	103.4	97.9	96.4	99.5	97.2	94.8	94.0
120°	102.6	101.8	101.0	99.5	97.2	91.7	90.2	92.5	90.9	88.6	87.0
122.5°	96.4	95.6	94.0	92.5	89.4	84.7	83.9	85.5	83.2	80.8	80.1
125°	89.4	87.8	87.0	84.7	81.6	77.7	76.9	77.7	75.4	73.1	72.3
127.5°	82.4	80.1	78.5	76.2	73.1	69.2	69.2	69.9	68.4	66.1	65.3
130°	73.1	71.5	69.2	66.8	63.7	60.6	60.6	61.4	59.8	58.3	58.3
132.5°	63.0	60.6	59.1	56.7	54.4	52.1	52.1	52.1	51.3	50.5	49.7
135°	52.1	50.5	48.2	46.6	44.3	42.7	42.7	43.5	42.7	41.2	41.2
137.5°	40.4	38.9	37.3	36.5	35.0	33.4	33.4	34.2	33.4	32.6	32.6
140°	31.1	29.5	28.8	28.0	26.4	25.6	25.6	25.6	25.6	24.9	24.9
142.5°	24.1	23.3	22.5	21.8	21.0	19.4	20.2	20.2	20.2	19.4	19.4
145°	17.9	17.1	16.3	15.5	15.5	14.8	14.8	14.8	14.8	14.8	14.0
147.5°	12.4	11.7	10.9	10.1	10.1	10.1	10.1	10.1	10.1	9.3	9.3
150°	7.0	6.2	5.4	4.7	4.7	4.7	4.7	5.4	4.7	4.7	4.7
152.5°	1.6	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)