

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: P314644

Luminaire Tested: **MPB-A4-D-U-ASYM**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314644
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-A4-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: 3933 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.58')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U4 - G4

Input Watts (W): 39.5
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

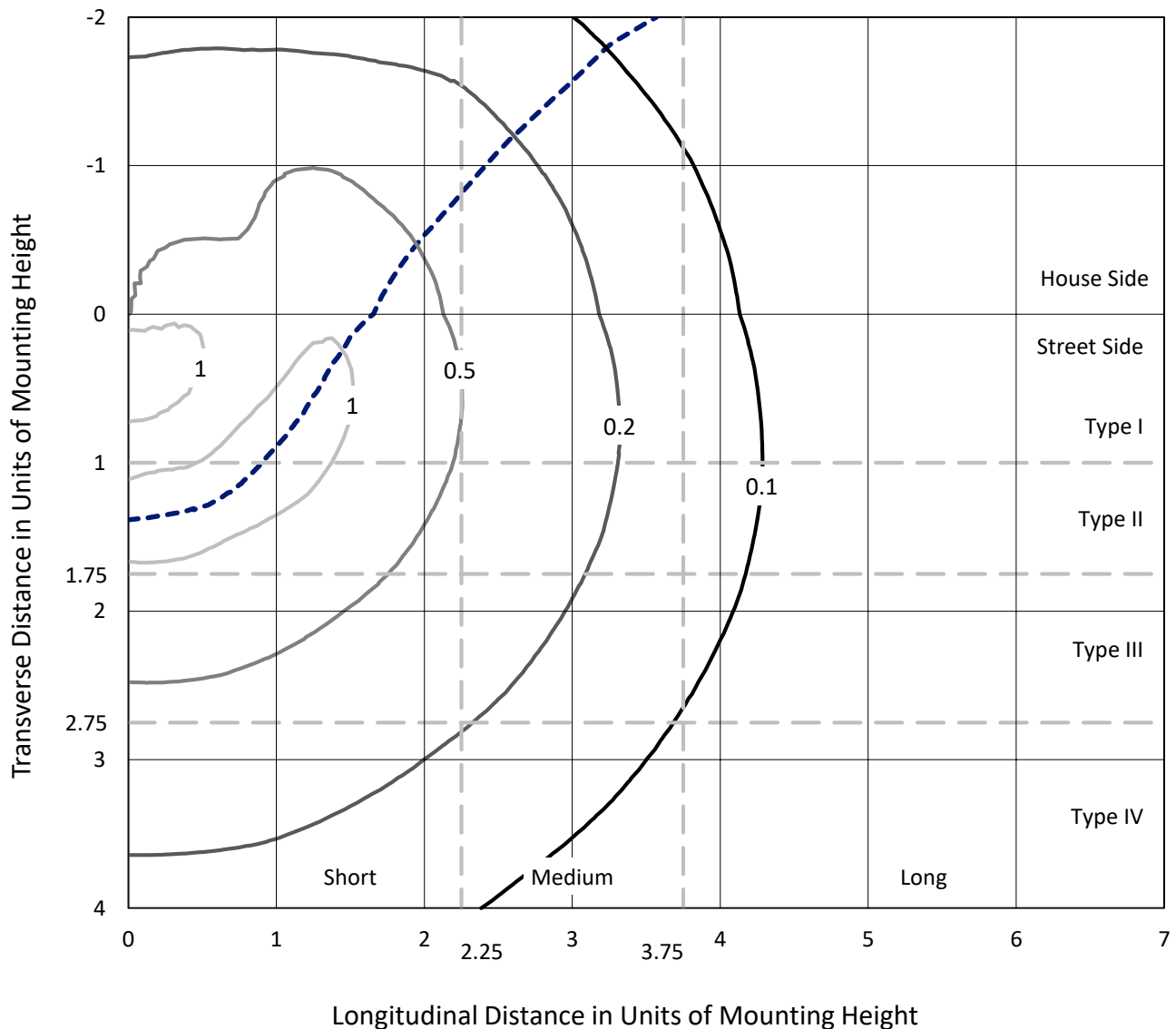


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

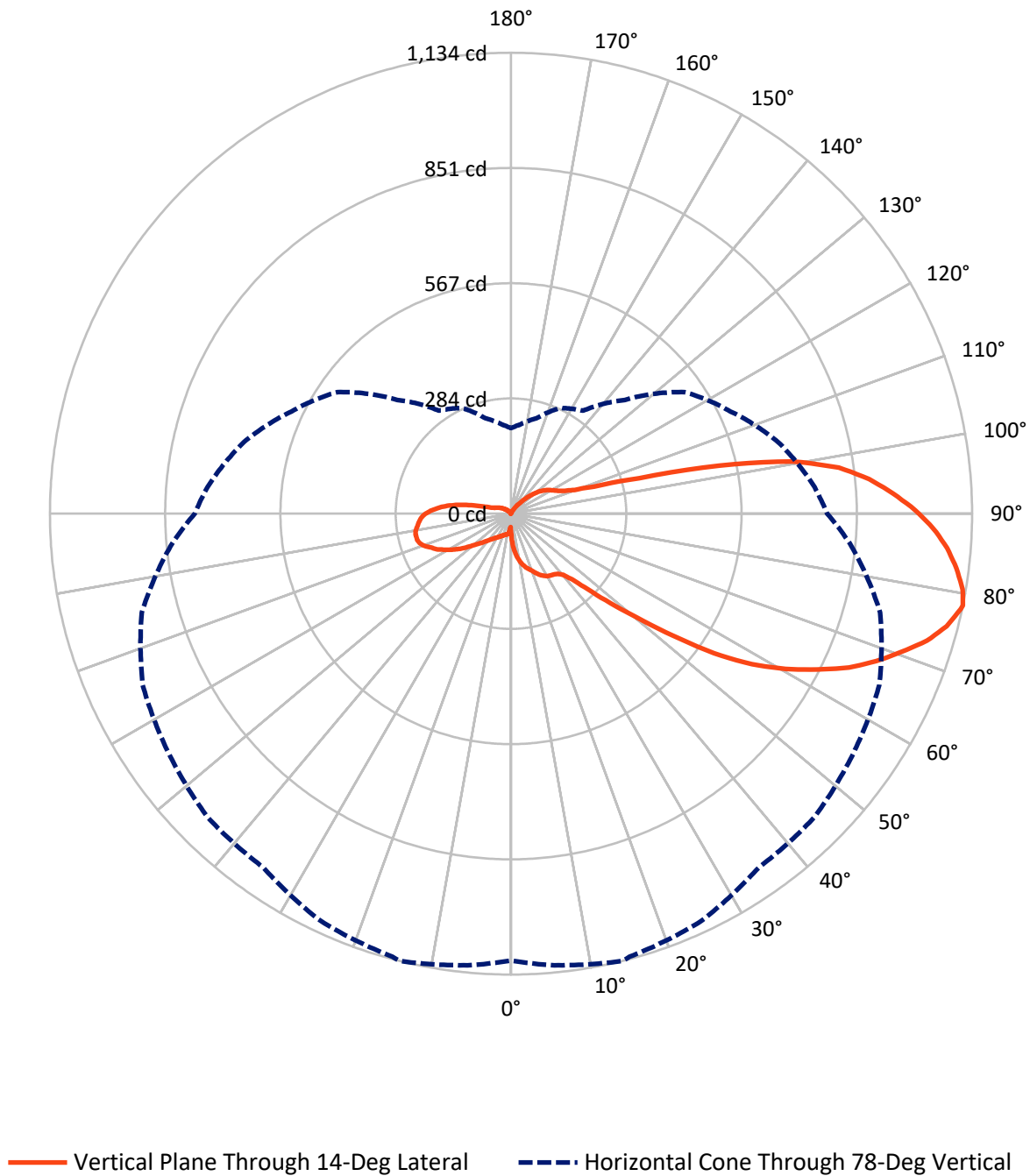


Based on 10 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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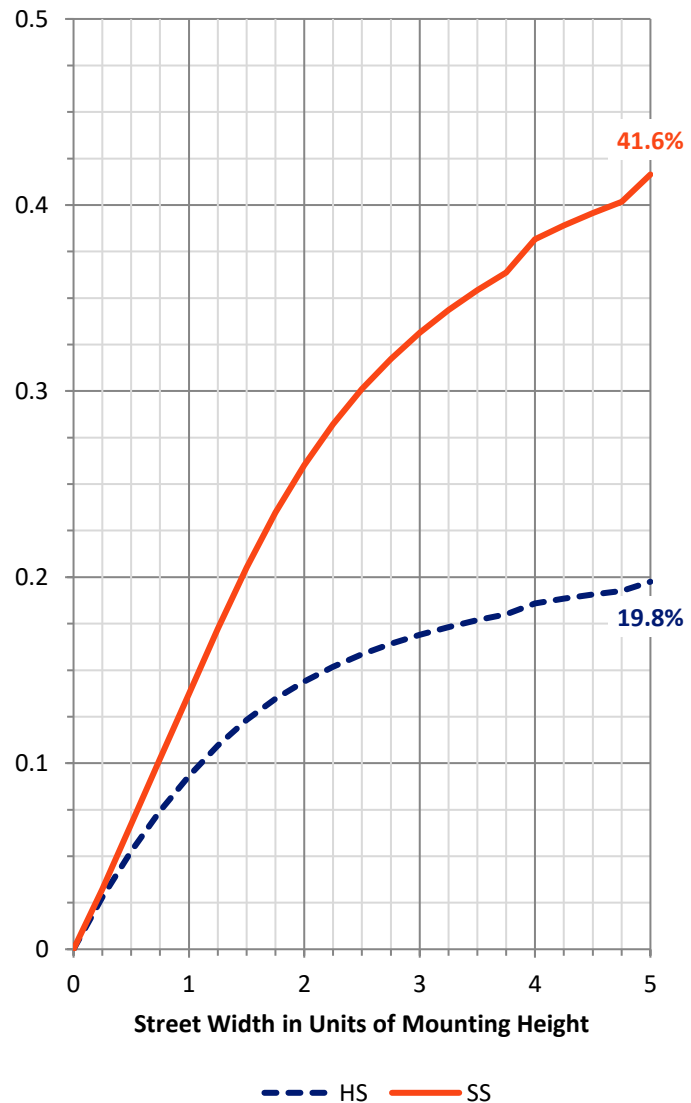
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	882.4	323.9	1206.3
	% Fixture	22.4	8.2	30.7
Street Side	Lumens	1966.1	760.6	2726.7
	% Fixture	50.0	19.3	69.3
Total	Lumens	2848.5	1084.4	3933.0
	% Fixture	72.4	27.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.9	0.2
10°-20°	27.9	0.7
20°-30°	55.0	1.4
30°-40°	84.0	2.1
40°-50°	159.2	4.0
50°-60°	383.8	9.8
60°-70°	608.7	15.5
70°-80°	761.1	19.4
80°-90°	761.9	19.4
90°-100°	624.9	15.9
100°-110°	266.3	6.8
110°-120°	91.9	2.3
120°-130°	61.4	1.6
130°-140°	30.5	0.8
140°-150°	8.8	0.2
150°-160°	0.5	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	2848.5	72.4
0°-180°	3933.0	100.0

Coefficient of Utilization



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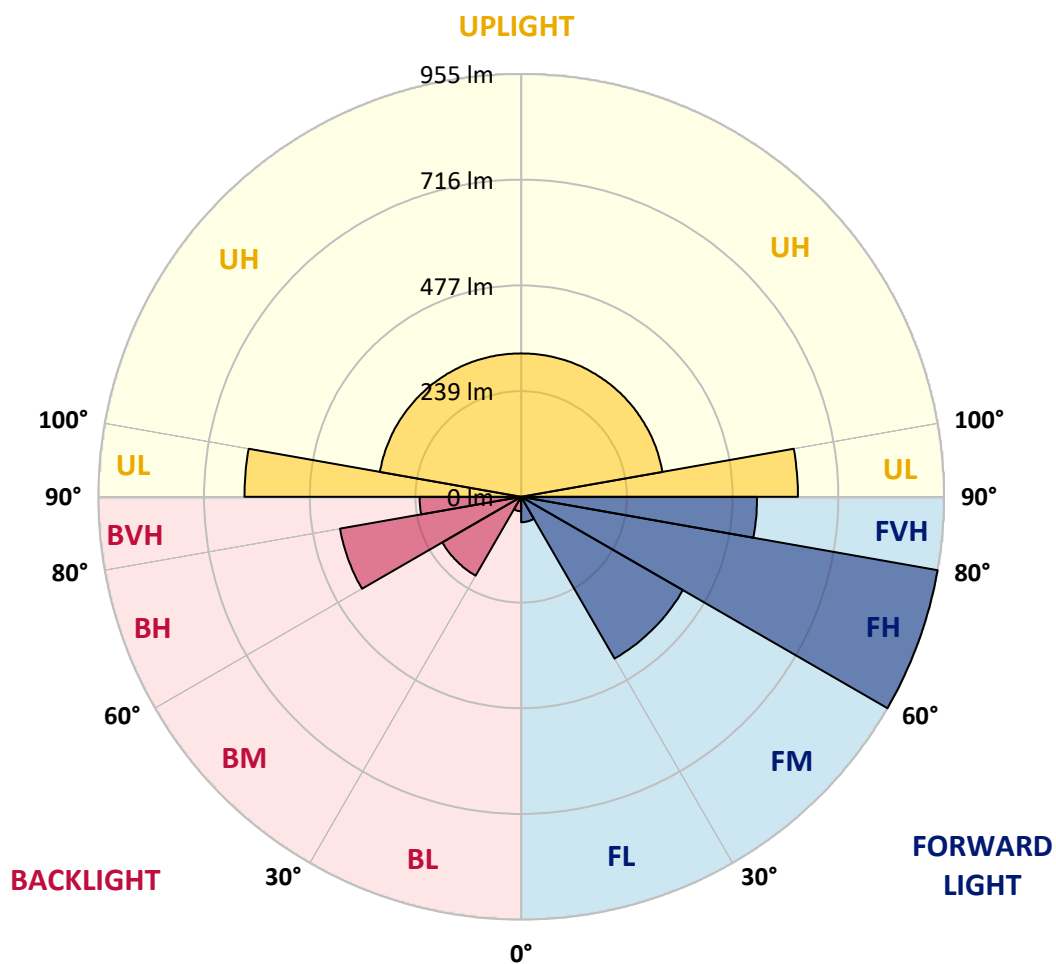
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	57.3	1.5			
FM	(30°-60°)	421.6	10.7			
FH	(60°-80°)	954.6	24.3			G1/1800
FVH	(80°-90°)	532.6	13.5			G4/750
BL	(0°-30°)	32.5	0.8	B0/110		
BM	(30°-60°)	205.5	5.2	B0/220		
BH	(60°-80°)	415.1	10.6	B1/500		G1/500
BVH	(80°-90°)	229.3	5.8			G3/500
UL	(90°-100°)	624.9	15.9		U4/1000	
UH	(100°-180°)	323.9	8.2		U3/500	

BUG Rating: B1-U4-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
0°	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
2.5°	76.5	75.9	75.2	74.6	74.0	70.2	68.9	66.4	63.2	59.4	56.3
5°	94.8	94.2	92.9	92.9	91.0	88.5	86.0	82.8	77.8	72.7	68.3
7.5°	109.4	108.1	107.5	106.8	105.6	102.4	99.3	95.5	91.0	86.0	80.9
10°	120.1	120.1	119.5	119.5	117.6	114.4	110.0	106.2	101.2	94.8	89.1
12.5°	130.2	129.6	129.0	129.0	127.1	123.3	118.9	114.4	109.4	103.0	97.4
15°	137.2	137.2	137.2	136.6	134.0	130.9	126.4	122.6	117.0	110.0	104.3
17.5°	144.1	144.1	143.5	143.5	140.3	137.2	132.8	129.0	123.3	116.3	110.0
20°	151.7	151.7	150.5	149.8	147.3	144.8	139.7	135.3	129.6	123.3	116.3
22.5°	161.2	160.6	159.3	159.3	156.2	151.7	147.3	142.9	137.2	130.2	123.3
25°	168.8	168.8	167.5	166.9	164.4	160.6	155.5	149.2	143.5	136.6	130.2
27.5°	175.8	175.1	173.2	172.6	170.1	166.3	161.2	155.5	148.6	141.6	134.7
30°	181.4	180.2	178.3	178.3	175.1	170.7	165.6	159.9	151.7	145.4	138.5
32.5°	184.0	183.3	180.8	180.2	177.0	172.6	167.5	161.2	154.3	147.3	141.0
35°	186.5	185.9	183.3	182.7	178.9	173.9	168.2	162.5	154.9	149.2	142.2
37.5°	190.9	190.9	187.8	187.1	183.3	179.5	173.9	168.2	161.8	154.3	146.7
40°	200.4	199.8	197.9	196.6	193.5	192.2	187.1	181.4	175.1	169.4	158.1
42.5°	221.3	221.9	221.9	220.6	217.5	219.4	216.2	211.8	204.2	196.6	182.1
45°	259.2	266.2	264.3	263.0	259.2	265.5	263.6	261.7	251.0	239.6	219.4
47.5°	317.4	326.8	328.7	323.7	319.9	325.0	332.5	328.7	314.2	300.3	275.0
50°	393.2	403.3	400.8	399.6	392.0	406.5	416.6	414.7	397.7	380.6	341.4
52.5°	488.1	493.1	498.2	492.5	485.5	504.5	526.6	524.1	507.0	481.1	431.8
55°	596.2	601.2	606.3	599.3	589.2	611.3	640.4	634.7	617.0	574.7	517.8
57.5°	691.0	700.5	698.6	696.1	675.2	697.3	720.7	715.0	693.5	645.5	580.4
60°	762.4	768.1	775.7	773.2	761.8	766.2	790.3	776.3	750.4	697.3	627.1
62.5°	826.9	834.5	844.6	842.1	833.2	826.3	845.3	826.9	800.4	747.9	670.1
65°	890.8	899.6	913.5	909.7	898.4	882.6	900.9	881.9	852.2	795.3	709.3
67.5°	942.6	952.1	968.5	966.6	959.1	940.7	945.8	922.4	891.4	832.0	741.6
70°	995.7	1006.5	1018.5	1021.0	1000.1	983.7	988.1	962.2	935.0	876.2	778.9
72.5°	1041.9	1046.9	1069.7	1074.7	1046.9	1018.5	1023.5	993.8	964.1	899.0	804.8
75°	1083.0	1088.7	1106.4	1107.0	1075.4	1048.8	1050.1	1025.4	998.9	933.8	828.8
77.5°	1100.7	1111.4	1130.4	1124.7	1103.2	1062.7	1067.2	1042.5	1010.9	939.5	832.0
78°	1099.4	1115.2	1134.2	1128.5	1106.4	1062.7	1055.8	1028.0	999.5	940.1	836.4
80°	1095.0	1114.6	1126.6	1120.9	1101.3	1051.4	1042.5	1019.1	992.6	932.5	823.8
82.5°	1069.7	1091.2	1103.8	1099.4	1084.9	1032.4	1028.0	1018.5	994.5	929.3	814.9
85°	1047.6	1069.1	1076.0	1072.9	1057.0	1007.7	1005.2	988.1	955.9	895.2	787.1
87.5°	1017.9	1036.2	1039.3	1040.0	1021.6	971.7	967.9	954.0	930.6	875.0	768.1
90°	971.7	987.5	994.5	994.5	979.3	933.1	933.8	929.3	907.8	848.4	741.6
92.5°	919.2	934.4	941.4	940.7	927.4	887.0	887.0	878.8	850.9	799.1	699.2
95°	863.6	875.0	885.1	884.5	866.8	828.8	827.6	826.9	800.4	749.8	658.1
97.5°	794.0	800.4	814.3	812.4	795.9	767.5	768.8	771.3	747.3	699.9	611.3
100°	687.2	686.6	704.3	700.5	690.4	672.0	680.3	684.0	663.8	622.7	548.1
102.5°	511.5	510.8	526.0	522.2	522.8	515.9	529.2	535.5	522.8	491.2	430.5
105°	320.5	318.0	326.8	324.3	321.2	312.3	314.2	311.7	304.7	285.8	251.0
107.5°	212.4	210.5	214.9	216.2	210.5	204.2	202.3	199.8	192.2	180.8	161.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	164.4	164.4	166.9	165.6	163.1	159.9	157.4	156.2	150.5	142.9	128.3
112.5°	141.0	141.0	143.5	142.9	141.0	137.8	137.2	135.9	132.1	125.8	114.4
115°	128.3	128.3	130.2	130.2	128.3	125.2	124.5	123.9	121.4	115.7	105.6
117.5°	120.1	119.5	121.4	121.4	118.9	117.0	117.0	116.3	114.4	108.7	99.9
120°	112.5	112.5	113.8	113.8	111.9	110.6	111.3	110.6	108.7	103.0	94.2
122.5°	105.6	105.6	106.8	106.2	104.9	104.9	104.9	104.9	103.0	98.0	89.1
125°	96.7	96.7	98.0	98.0	96.7	97.4	98.0	98.0	96.7	91.7	83.5
127.5°	87.2	87.2	88.5	88.5	87.9	89.1	91.0	90.4	89.1	84.7	77.1
130°	76.5	76.5	77.8	78.4	78.4	80.3	81.6	81.6	80.3	76.5	68.9
132.5°	65.1	64.5	65.7	66.4	67.6	69.5	70.2	70.2	69.5	65.7	59.4
135°	52.5	52.5	54.4	55.0	56.3	57.5	58.2	58.8	58.2	55.0	49.3
137.5°	40.5	40.5	42.4	43.0	44.3	44.9	44.9	46.2	44.9	43.0	38.6
140°	31.6	31.6	32.9	33.5	34.8	34.8	34.1	34.1	33.5	32.2	28.4
142.5°	25.3	24.7	26.6	26.6	27.2	27.8	27.2	27.2	26.6	25.3	22.8
145°	19.0	19.0	19.6	20.2	20.2	20.9	20.9	20.9	20.2	19.6	17.1
147.5°	12.6	12.6	13.9	13.9	14.5	15.2	15.2	15.2	14.5	13.9	12.0
150°	6.3	6.3	7.0	7.6	8.2	8.2	8.9	9.5	8.9	8.2	7.0
152.5°	0.0	0.0	0.6	0.6	1.3	1.9	2.5	2.5	2.5	2.5	2.5
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6
157.5°	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.6	0.6	0.6
160°	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.6	0.6	0.6	0.6
162.5°	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6
165°	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6
167.5°	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6
170°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6
172.5°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6
175°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6
177.5°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6
180°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
2.5°	54.4	51.8	48.7	45.5	42.4	39.2	36.7	34.1	32.9	31.6	31.6
5°	65.7	63.2	58.8	54.4	49.9	46.8	44.3	42.4	41.1	41.1	41.7
7.5°	78.4	75.9	69.5	63.2	58.8	55.0	51.8	49.9	48.0	46.8	46.8
10°	86.6	82.8	77.1	71.4	66.4	61.3	57.5	54.4	51.2	49.3	48.7
12.5°	93.6	90.4	83.5	77.1	71.4	65.1	60.7	56.3	52.5	49.9	49.3
15°	99.9	96.1	89.1	82.2	75.2	68.3	62.6	57.5	53.7	50.6	50.6
17.5°	106.2	102.4	94.8	87.2	79.0	71.4	64.5	59.4	55.0	52.5	51.8
20°	112.5	108.1	100.5	92.3	82.8	74.6	67.0	61.3	56.9	55.0	54.4
22.5°	118.9	114.4	106.2	97.4	87.2	77.8	69.5	63.2	58.8	57.5	57.5
25°	125.2	120.1	111.3	101.8	91.0	81.6	72.7	65.7	61.3	60.1	60.7
27.5°	129.6	125.2	115.7	105.6	94.8	84.7	75.2	68.3	63.9	63.2	63.2
30°	134.0	129.0	118.9	108.7	98.0	87.9	78.4	70.8	67.0	66.4	67.0
32.5°	136.6	131.5	120.8	111.3	100.5	89.8	80.9	73.3	69.5	70.2	70.2
35°	137.8	132.8	123.3	113.2	102.4	92.3	83.5	76.5	74.0	74.0	74.0
37.5°	141.6	136.6	126.4	116.3	106.2	96.1	87.2	80.3	78.4	79.0	78.4
40°	151.1	146.0	134.7	123.3	112.5	101.8	92.3	85.3	84.1	84.7	84.1
42.5°	173.9	168.2	151.7	136.6	123.3	110.6	99.3	92.3	91.0	91.0	91.7
45°	207.4	199.8	181.4	158.7	141.6	124.5	110.0	101.2	99.3	98.6	98.0
47.5°	256.7	245.3	222.5	193.5	167.5	145.4	123.9	111.9	108.1	106.8	105.6
50°	321.2	308.5	275.0	237.1	208.0	172.6	142.9	125.8	118.9	115.1	113.8
52.5°	400.8	388.2	343.3	296.5	254.8	208.0	168.8	142.9	132.8	125.2	123.3
55°	481.1	467.8	417.9	354.0	307.9	244.7	197.2	163.1	148.6	136.6	135.3
57.5°	538.6	521.6	467.8	402.7	352.1	277.5	218.7	180.8	162.5	148.6	145.4
60°	577.8	560.1	507.7	436.2	386.3	302.8	236.4	196.0	177.0	161.8	159.3
62.5°	616.4	598.7	539.3	465.9	413.5	318.6	251.6	209.3	190.3	174.5	174.5
65°	652.4	633.5	569.0	496.3	440.0	333.8	265.5	222.5	204.8	189.7	192.8
67.5°	682.1	663.2	596.2	526.0	461.5	350.2	275.6	240.9	214.3	202.9	202.3
70°	716.9	694.8	624.6	551.3	488.1	371.1	285.8	255.4	228.2	216.2	206.1
72.5°	740.3	712.5	648.6	570.9	500.1	383.1	296.5	273.1	237.7	217.5	210.5
75°	765.6	740.3	671.4	587.3	521.6	393.9	302.8	280.7	242.1	218.1	209.9
77.5°	770.0	743.5	676.5	590.5	519.7	399.6	311.0	284.5	242.1	218.7	211.2
78°	777.6	749.8	680.3	595.5	521.6	395.8	309.1	287.0	242.8	218.7	210.5
80°	766.2	741.6	673.3	587.3	515.2	392.0	308.5	287.7	241.5	216.2	207.4
82.5°	753.6	731.5	660.0	577.8	507.0	386.3	304.1	277.5	235.8	208.6	200.4
85°	727.7	711.2	646.1	563.3	491.2	373.0	299.7	275.0	230.8	201.7	194.1
87.5°	708.1	692.9	627.1	553.8	482.4	362.3	290.8	268.1	225.1	195.4	187.8
90°	680.3	662.6	596.8	523.5	456.5	347.1	280.7	254.1	215.6	187.8	180.2
92.5°	643.0	628.4	565.8	494.4	431.8	325.0	263.0	239.6	200.4	177.0	168.8
95°	604.4	591.1	531.1	467.2	407.8	305.4	245.3	222.5	181.4	163.1	154.3
97.5°	560.1	548.1	491.2	428.6	371.7	280.1	221.3	200.4	159.9	142.9	137.2
100°	496.9	485.5	430.5	373.6	321.8	241.5	184.6	166.9	132.8	118.2	113.2
102.5°	383.1	373.6	326.2	280.7	236.4	175.8	130.9	120.1	100.5	87.9	84.1
105°	225.1	219.4	194.1	167.5	140.3	108.1	82.2	80.3	68.9	63.2	60.1
107.5°	146.0	141.6	127.1	111.9	95.5	75.9	60.7	57.5	51.2	48.7	47.4



REPORT NUMBER: P314644

CATALOG NUMBER: MPB-A4-D-U-ASYM

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	119.5	115.7	104.3	91.7	79.0	62.6	51.8	48.0	43.0	41.1	40.5
112.5°	106.2	103.0	92.9	81.6	70.8	56.3	46.8	43.0	38.6	36.7	36.0
115°	98.6	94.8	85.3	75.2	65.7	52.5	43.6	39.8	35.4	32.9	32.9
117.5°	92.3	88.5	80.3	70.8	61.3	48.7	40.5	36.0	32.2	29.7	29.1
120°	87.9	84.1	75.9	66.4	57.5	45.5	37.9	32.9	28.4	25.9	25.3
122.5°	82.8	79.0	70.8	62.0	52.5	41.7	34.1	29.1	25.3	22.8	22.1
125°	77.8	74.0	65.7	56.9	47.4	37.3	30.3	25.3	21.5	19.6	19.0
127.5°	72.1	68.3	60.1	51.2	42.4	32.9	26.6	22.1	18.3	16.4	15.8
130°	64.5	60.7	53.1	44.9	36.7	28.4	22.8	18.3	15.8	13.9	13.3
132.5°	55.6	51.8	44.9	37.9	31.0	24.0	18.3	15.2	12.6	11.4	10.7
135°	46.2	43.0	37.3	31.0	25.3	19.6	15.2	12.6	10.1	8.9	8.9
137.5°	36.0	33.5	28.4	24.0	19.6	15.2	11.4	9.5	8.2	7.0	7.0
140°	27.2	25.3	21.5	18.3	14.5	11.4	8.9	7.6	6.3	5.1	5.1
142.5°	20.9	19.6	16.4	13.9	11.4	8.2	6.3	5.1	4.4	3.8	3.8
145°	15.8	14.5	12.0	10.1	8.2	5.7	4.4	3.2	2.5	2.5	1.9
147.5°	10.7	10.1	8.2	6.3	5.1	3.2	2.5	1.9	1.3	1.3	0.6
150°	5.7	5.1	3.8	3.2	1.9	1.3	1.3	0.6	0.0	0.0	0.0
152.5°	1.9	1.9	1.3	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6

(END OF REPORT)