

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: P271882

Luminaire Tested: **MPB-AF-D-U-ASYM-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271882
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25987)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: MPB-AF-D-U-ASYM-7027-600
Description: BRECKENRIDGE LED POST-TOP LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND ASYMMETRIC OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2551.8 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.62')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U3 - G3

Input Watts (W): 34
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

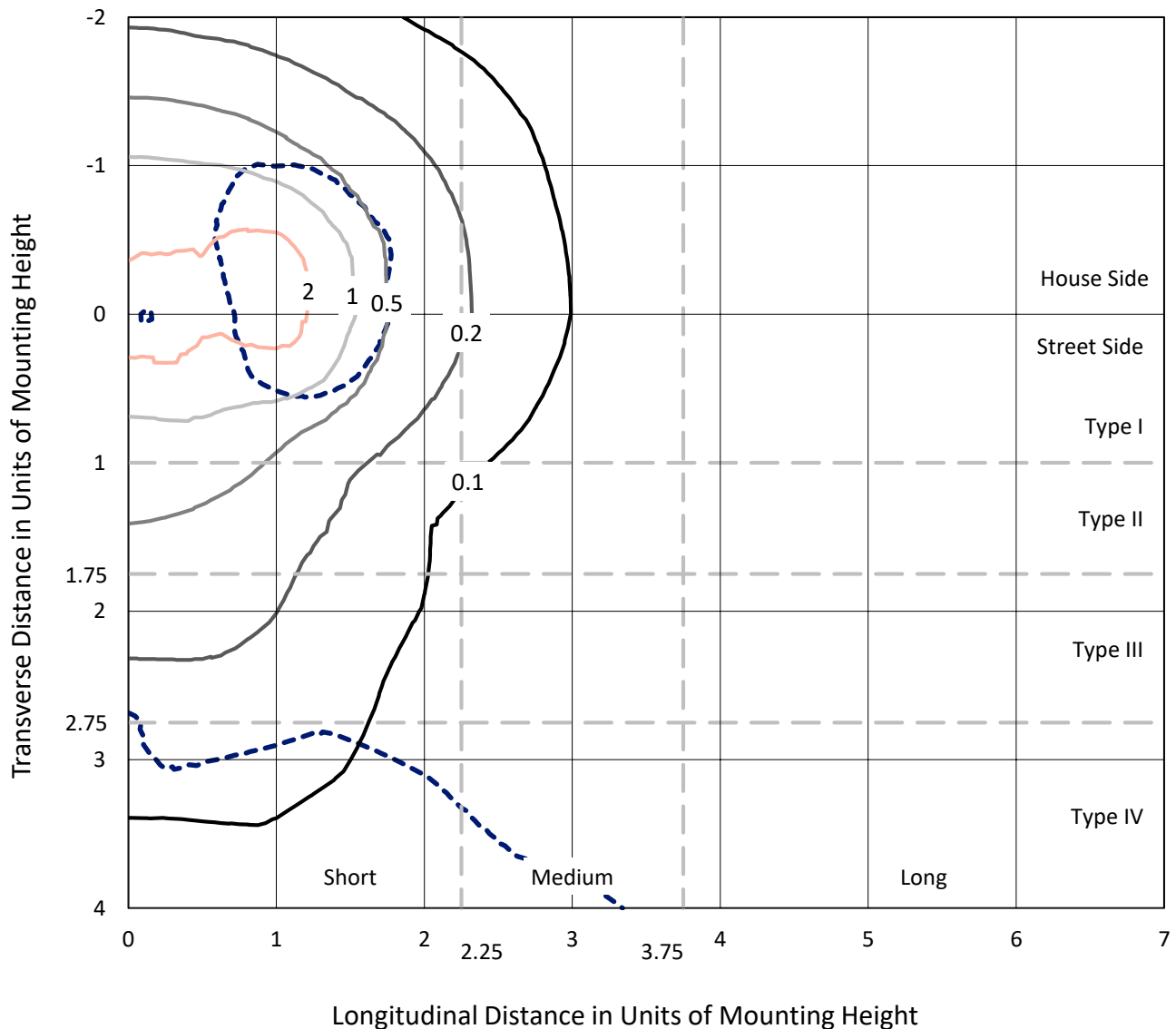


REPORT NUMBER: P271882

CATALOG NUMBER: MPB-AF-D-U-ASYM-7027-600

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

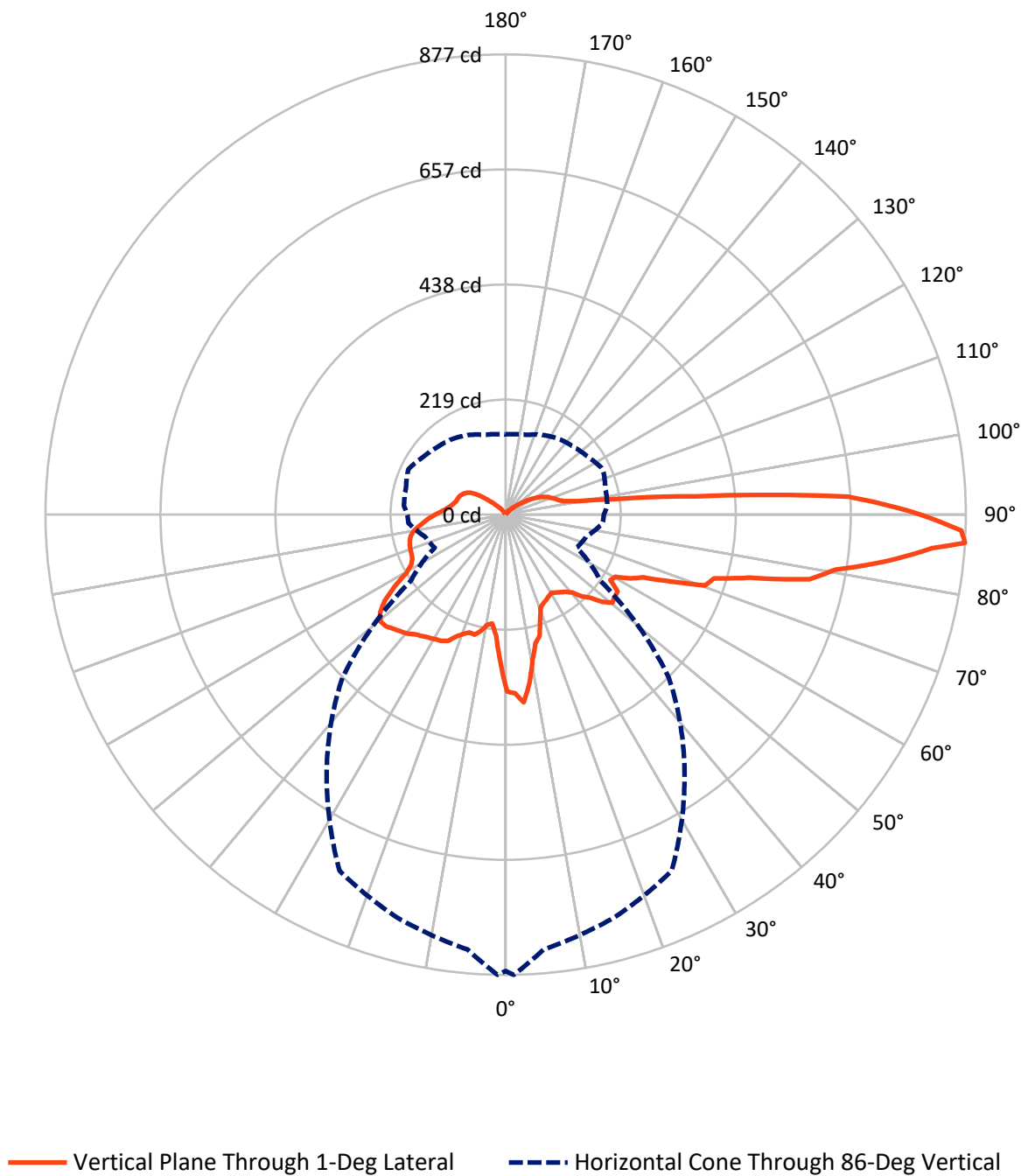


Based on 10 foot mounting height. Maximum calculated value = 4.3 fc
Type IV - Short - Non-Cutoff

REPORT NUMBER: P271882

CATALOG NUMBER: MPB-AF-D-U-ASYM-7027-600

Luminous Intensity Polar Plot



REPORT NUMBER: P271882

CATALOG NUMBER: MPB-AF-D-U-ASYM-7027-600

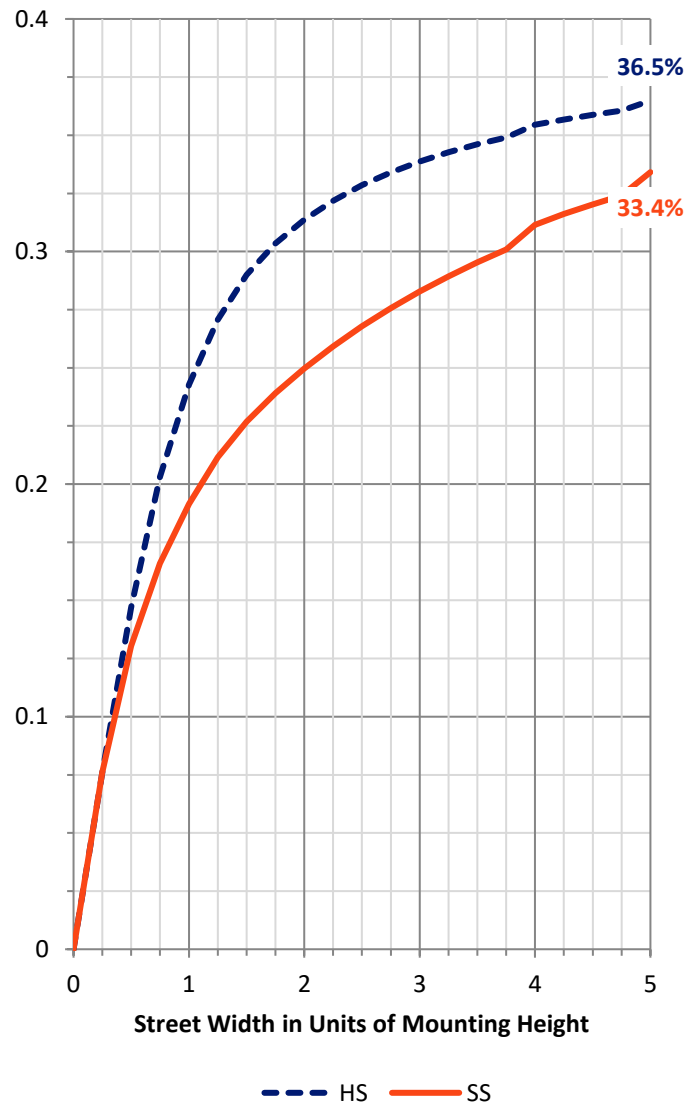
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	986.7	241.8	1228.6
	% Fixture	38.7	9.5	48.1
Street Side	Lumens	1037.9	285.4	1323.3
	% Fixture	40.7	11.2	51.9
Total	Lumens	2024.6	527.3	2551.8
	% Fixture	79.3	20.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.2	1.3
10°-20°	78.5	3.1
20°-30°	121.9	4.8
30°-40°	195.1	7.6
40°-50°	322.3	12.6
50°-60°	348.1	13.6
60°-70°	266.2	10.4
70°-80°	314.3	12.3
80°-90°	345.8	13.6
90°-100°	210.0	8.2
100°-110°	106.9	4.2
110°-120°	104.0	4.1
120°-130°	76.4	3.0
130°-140°	24.2	0.9
140°-150°	5.4	0.2
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2024.6	79.3
0°-180°	2551.8	100.0

Coefficient of Utilization



REPORT NUMBER: P271882

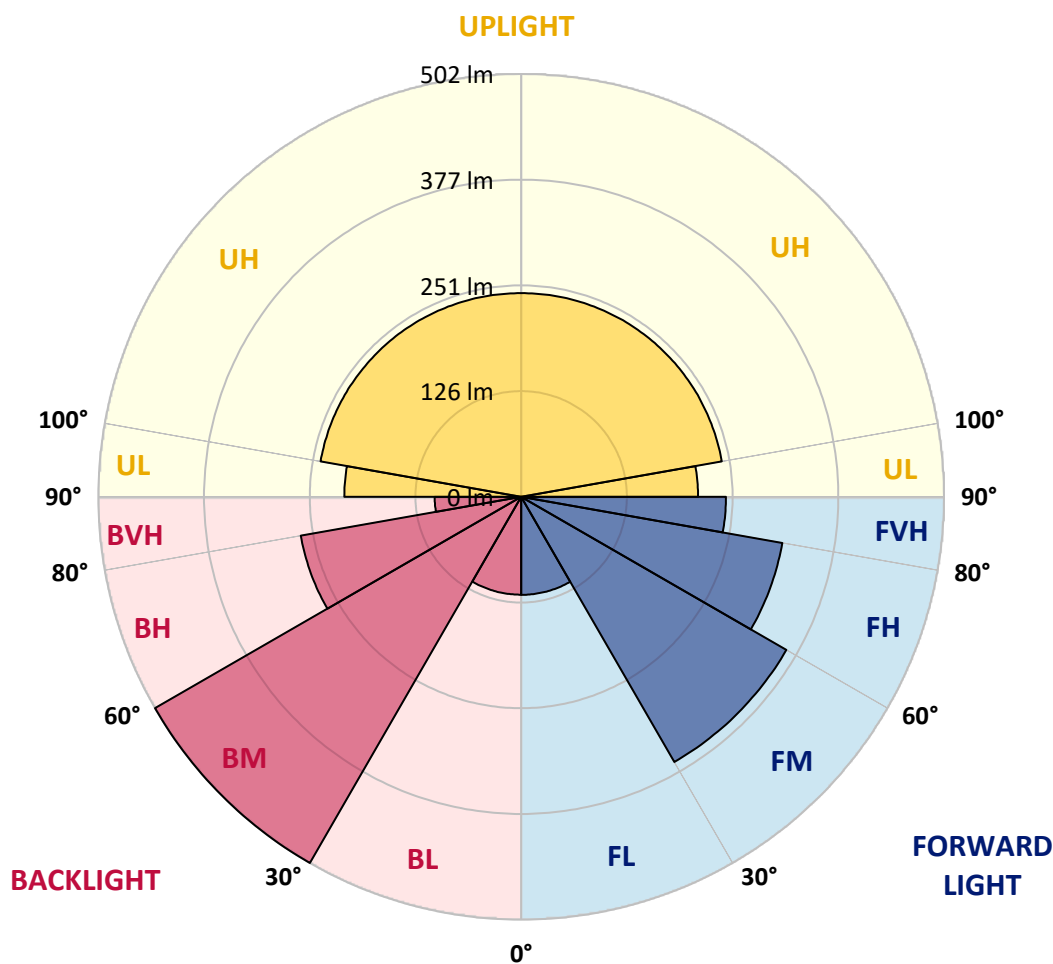
CATALOG NUMBER: MPB-AF-D-U-ASYM-7027-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	116.4	4.6			
FM	(30°-60°)	363.6	14.2			
FH	(60°-80°)	314.8	12.3			G0/660
FVH	(80°-90°)	243.1	9.5			G3/500
BL	(0°-30°)	116.2	4.6	B1/500		
BM	(30°-60°)	502.0	19.7	B1/1000		
BH	(60°-80°)	265.7	10.4	B1/500		G1/500
BVH	(80°-90°)	102.7	4.0			G2/225
UL	(90°-100°)	210.0	8.2		U3/500	
UH	(100°-180°)	241.8	9.5		U3/500	

BUG Rating: B1-U3-G3

Type IV Short



REPORT NUMBER: P271882

CATALOG NUMBER: MPB-AF-D-U-ASYM-7027-600

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	337.0	337.0	337.0	337.0	337.0	337.0	337.0	337.0	337.0	337.0	337.0
2.5°	341.4	340.6	339.2	341.4	343.6	360.3	371.3	369.8	356.6	350.9	346.5
5°	363.9	359.0	355.2	361.1	361.1	391.6	406.9	384.4	380.1	390.9	379.3
7.5°	326.2	324.6	323.2	329.8	342.2	396.1	404.8	456.4	471.7	453.6	451.4
10°	278.8	281.0	278.8	313.8	362.6	399.7	350.9	363.9	388.0	396.1	357.4
12.5°	249.0	251.9	254.8	277.4	290.4	278.8	301.4	310.2	325.4	323.2	307.2
15°	237.3	240.3	238.8	228.6	243.1	264.2	282.4	299.9	317.4	300.7	300.7
17.5°	219.2	212.6	211.1	201.0	226.5	255.5	289.1	313.0	308.7	334.1	356.6
20°	191.5	189.3	189.3	194.3	216.2	251.9	312.3	366.1	402.6	374.1	340.0
22.5°	184.2	183.4	186.4	195.1	216.2	234.4	261.4	284.7	288.3	285.3	284.7
25°	179.8	179.8	182.7	193.0	201.0	214.8	247.6	267.9	269.3	284.0	284.0
27.5°	177.7	175.3	175.3	185.6	196.5	217.7	235.2	254.1	263.6	292.7	340.6
30°	173.2	172.6	173.2	183.4	200.2	214.1	236.6	252.6	266.4	295.5	309.4
32.5°	175.3	176.9	174.7	182.0	195.1	214.1	240.3	265.7	275.9	326.8	350.9
35°	181.3	181.3	178.3	182.0	192.1	211.1	243.1	281.7	300.7	366.9	402.6
37.5°	184.2	186.4	185.6	191.5	202.4	217.7	244.6	295.5	334.1	395.3	461.5
40°	195.1	195.1	195.8	206.0	214.1	224.1	245.3	302.8	377.7	429.5	535.7
42.5°	210.5	212.6	209.7	208.9	215.4	229.2	245.3	299.9	431.6	481.2	622.4
45°	222.8	225.7	223.5	228.6	227.9	238.8	245.3	293.4	447.6	537.9	698.8
47.5°	251.2	248.2	251.2	252.6	246.0	250.4	254.1	291.9	444.0	605.0	741.0
50°	262.8	263.6	261.4	256.9	255.5	251.2	254.8	281.7	431.6	650.0	768.1
52.5°	262.0	259.9	262.8	256.3	251.2	249.7	243.9	264.2	407.7	628.3	703.2
55°	261.4	258.4	253.3	244.6	235.9	234.4	231.5	245.3	351.6	526.2	617.3
57.5°	235.2	235.2	232.2	232.2	224.9	217.7	217.7	213.3	294.0	426.5	530.7
60°	239.5	240.3	237.3	241.6	236.6	216.2	219.2	190.7	246.0	322.5	388.0
62.5°	270.1	267.2	260.6	260.6	254.1	220.5	205.4	184.2	222.0	275.2	324.0
65°	290.4	288.3	289.1	294.0	286.8	245.3	228.6	186.4	213.3	263.6	306.5
67.5°	337.8	339.2	341.4	355.2	329.8	278.0	254.8	191.5	209.7	261.4	302.1
70°	420.0	403.2	390.9	360.3	350.2	287.5	261.4	196.5	206.7	261.4	299.1
72.5°	409.9	414.9	408.4	420.0	417.2	335.6	268.6	204.5	204.5	256.9	298.5
75°	485.5	479.0	493.6	539.4	489.9	385.8	312.3	213.3	198.7	249.0	292.7
77.5°	593.3	591.2	574.4	561.2	532.2	408.4	362.6	237.3	184.9	232.2	275.9
80°	643.5	636.2	647.9	621.6	607.8	470.3	357.4	227.1	168.9	211.1	250.4
82.5°	733.1	729.4	736.7	806.6	693.0	538.7	393.1	232.2	157.9	188.6	222.0
85°	811.0	814.7	838.6	812.3	752.7	588.2	415.6	242.5	152.2	167.4	195.8
86°	869.2	876.5	831.3	794.9	748.4	594.0	439.7	220.5	149.2	159.4	185.6
87.5°	857.5	868.4	852.4	837.2	781.1	612.9	449.2	196.5	146.3	147.8	171.0
90°	794.2	770.2	796.3	820.4	719.3	553.3	404.0	203.1	133.2	132.5	150.6
92.5°	655.9	653.0	637.0	631.9	570.0	446.3	339.2	169.6	122.3	118.7	133.9
95°	388.8	365.4	353.0	415.6	377.7	343.6	249.7	157.9	110.0	106.3	117.9
97.5°	217.7	210.5	202.4	230.8	240.3	215.4	161.7	115.7	97.6	97.6	106.3
100°	147.1	141.2	139.1	139.8	151.5	139.8	116.5	94.6	88.0	91.8	98.3
102.5°	114.3	113.5	111.4	112.8	115.1	107.8	97.6	89.5	86.7	91.8	95.4
105°	104.1	104.1	101.9	101.1	103.3	96.7	91.8	86.7	88.0	95.4	97.6
107.5°	97.6	98.3	95.4	95.4	95.4	91.8	87.3	85.2	91.0	100.5	102.7



REPORT NUMBER: P271882

CATALOG NUMBER: MPB-AF-D-U-ASYM-7027-600

CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	91.8	91.8	89.5	89.5	90.3	86.7	83.7	83.7	94.0	106.3	109.2
112.5°	85.9	86.7	84.4	84.4	84.4	81.6	80.1	83.0	97.6	113.5	117.9
115°	78.6	78.6	77.2	78.6	78.6	77.2	77.2	83.0	105.6	124.4	131.1
117.5°	69.9	69.9	69.2	71.3	72.0	72.9	75.0	83.7	114.3	136.8	147.1
120°	60.5	60.5	60.5	63.3	64.8	66.9	71.3	82.3	119.4	146.3	157.2
122.5°	50.2	50.2	50.2	52.4	54.5	59.0	64.8	76.4	114.3	141.2	153.6
125°	40.1	40.1	40.7	42.2	45.2	49.5	55.3	66.3	98.3	121.6	134.7
127.5°	32.0	32.0	32.0	33.5	35.7	40.1	45.2	54.5	77.2	96.7	109.2
130°	25.5	25.5	25.5	26.2	27.7	30.6	35.7	43.7	59.0	72.9	82.3
132.5°	20.4	19.7	20.4	20.4	21.9	24.1	26.9	32.0	41.5	51.7	59.0
135°	16.8	16.8	16.8	16.8	17.4	18.1	21.1	23.3	28.4	34.9	38.5
137.5°	13.1	13.1	13.1	13.1	13.8	13.8	15.3	17.4	19.7	24.1	27.7
140°	10.2	10.2	10.2	10.2	10.2	10.9	11.7	12.4	14.6	18.1	21.1
142.5°	8.1	8.1	8.1	8.1	8.1	8.1	8.7	9.4	10.9	13.1	15.3
145°	5.1	5.7	5.1	5.1	5.1	5.1	5.7	5.7	7.3	8.7	10.2
147.5°	3.0	3.6	3.0	3.0	3.0	3.0	3.0	3.6	3.6	5.1	5.7
150°	1.4	1.4	1.4	1.4	1.4	0.7	1.4	1.4	1.4	2.2	3.0
152.5°	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4
155°	0.0	0.0	0.0	0.7	0.7	0.7	0.0	0.7	0.7	1.4	1.4
157.5°	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4
160°	0.0	0.0	0.0	0.7	0.7	0.7	0.0	0.7	0.7	1.4	1.4
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	0.0	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



REPORT NUMBER: P271882

CATALOG NUMBER: MPB-AF-D-U-ASYM-7027-600

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	337.0	337.0	337.0	337.0	337.0	337.0	337.0	337.0	337.0	337.0	337.0
2.5°	345.1	345.1	347.3	347.3	345.1	336.3	323.2	310.2	294.8	284.0	281.0
5°	371.3	359.6	347.3	326.8	309.4	305.7	279.6	255.5	241.6	231.5	230.1
7.5°	451.4	436.8	386.5	372.7	349.4	320.2	246.8	222.8	213.3	209.7	208.9
10°	339.2	320.2	290.4	279.6	275.2	259.1	235.2	220.5	215.4	214.1	212.6
12.5°	297.0	287.5	274.4	265.0	258.4	245.3	231.5	222.8	221.3	225.7	226.5
15°	296.4	299.9	293.4	270.7	252.6	241.6	233.6	232.2	232.9	236.6	235.9
17.5°	366.1	351.6	327.6	293.4	267.2	267.9	266.4	244.6	241.6	235.9	234.4
20°	326.8	312.3	309.4	289.1	281.7	258.4	263.6	254.1	249.0	242.5	240.3
22.5°	283.1	276.6	264.2	259.1	256.9	264.2	264.2	256.3	253.3	250.4	249.7
25°	280.3	281.0	295.5	294.8	273.7	277.4	272.3	263.6	263.6	265.0	263.6
27.5°	340.6	322.5	302.1	301.4	292.7	302.1	286.1	273.7	272.9	270.7	269.3
30°	311.5	311.5	316.7	315.2	308.7	303.5	294.8	283.1	278.8	273.7	272.3
32.5°	353.8	356.6	368.3	355.2	339.2	324.0	308.7	291.9	283.1	276.6	275.9
35°	390.9	396.7	429.5	402.6	381.4	348.7	325.4	300.7	287.5	281.7	280.3
37.5°	438.9	444.0	498.6	455.7	422.2	375.6	343.6	310.8	294.0	286.1	285.3
40°	503.1	503.8	562.7	524.1	484.8	405.5	354.5	318.9	302.8	294.0	293.4
42.5°	588.2	583.8	656.6	619.5	535.7	427.3	359.6	321.1	305.7	299.9	299.1
45°	667.5	661.7	721.4	706.1	558.4	441.2	366.1	328.3	310.8	305.7	304.3
47.5°	720.7	729.4	772.4	768.7	572.2	447.0	377.1	336.3	317.4	312.3	311.5
50°	776.0	786.2	829.1	765.1	580.9	451.4	385.1	342.2	320.2	314.5	313.0
52.5°	788.4	791.2	820.4	725.0	562.0	438.2	378.5	334.9	311.5	305.1	302.8
55°	705.3	683.6	778.9	627.5	512.6	399.7	354.5	313.8	290.4	285.3	282.4
57.5°	584.5	551.1	626.7	519.0	437.6	356.0	315.2	282.4	260.6	254.8	251.9
60°	433.2	404.0	456.4	397.5	355.2	292.7	259.9	240.9	223.5	219.8	219.2
62.5°	356.6	342.8	369.0	339.2	305.7	261.4	236.6	220.5	205.4	203.8	203.8
65°	329.8	326.8	342.2	321.1	291.2	251.9	229.2	214.1	199.4	197.3	196.5
67.5°	318.1	318.9	326.2	315.9	289.7	250.4	227.9	211.8	197.3	195.1	194.3
70°	314.5	314.5	314.5	315.9	291.9	250.4	227.9	212.6	196.5	193.7	193.0
72.5°	312.3	312.3	307.2	313.0	289.7	249.0	227.9	211.8	195.8	192.1	191.5
75°	303.5	304.3	297.8	307.2	282.4	246.0	227.1	210.5	193.7	190.0	189.3
77.5°	284.7	286.1	281.7	294.0	270.1	240.3	223.5	207.5	190.7	186.4	185.6
80°	255.5	262.0	259.9	271.6	250.4	228.6	214.1	199.4	183.4	179.8	179.1
82.5°	224.1	232.2	233.6	242.5	225.7	210.5	198.0	186.4	171.8	168.9	168.2
85°	197.3	204.5	207.5	214.8	201.0	190.7	182.0	172.6	160.9	157.9	157.2
86°	187.0	194.3	196.5	204.5	191.5	182.7	176.2	167.4	157.2	153.6	152.9
87.5°	172.6	179.1	182.7	189.3	177.7	171.0	166.6	160.2	150.6	147.8	147.1
90°	152.2	158.7	160.9	164.5	155.0	151.5	149.9	145.5	139.1	136.1	136.1
92.5°	134.7	140.5	142.7	144.9	136.8	133.9	134.7	132.5	128.1	125.9	125.2
95°	118.7	123.8	125.2	127.4	120.8	120.1	123.8	123.0	119.4	117.2	116.5
97.5°	107.0	110.6	112.1	112.8	109.2	110.6	114.3	115.1	112.8	110.6	110.0
100°	99.0	101.1	103.3	104.8	101.1	103.3	107.8	108.4	107.0	105.6	104.8
102.5°	96.1	97.6	101.1	102.7	98.3	99.0	102.7	104.1	102.7	101.1	101.1
105°	98.3	99.0	104.8	107.0	100.5	98.3	99.7	101.1	99.0	98.3	98.3
107.5°	103.3	104.1	112.1	114.3	107.0	101.1	99.7	99.7	98.3	96.7	96.7



REPORT NUMBER: P271882

CATALOG NUMBER: MPB-AF-D-U-ASYM-7027-600

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	110.0	112.1	120.8	125.2	116.5	104.8	99.7	99.0	97.6	95.4	96.1
112.5°	119.4	120.8	131.1	136.8	126.8	108.4	99.7	97.6	95.4	94.0	94.6
115°	133.2	132.5	144.9	149.9	136.1	112.1	100.5	95.4	93.2	91.8	91.8
117.5°	149.2	147.8	160.2	160.2	143.4	115.1	100.5	93.2	90.3	88.8	88.8
120°	160.2	157.2	171.0	165.3	144.2	115.1	99.7	90.3	86.7	85.2	84.4
122.5°	157.9	155.0	171.0	157.9	133.2	106.3	93.2	85.2	80.8	79.3	78.6
125°	138.2	135.5	145.5	133.2	112.1	88.8	78.6	72.0	69.9	68.5	68.5
127.5°	112.1	110.0	112.1	104.1	88.0	71.3	63.3	59.0	57.5	56.9	56.9
130°	82.3	83.0	84.4	78.6	66.3	55.3	48.8	45.8	45.2	44.4	44.4
132.5°	59.6	59.6	61.2	57.5	48.1	41.5	37.9	35.7	35.7	34.9	34.9
135°	40.1	40.7	42.2	40.1	34.2	29.8	27.7	26.9	26.9	26.2	26.2
137.5°	28.4	29.8	30.6	28.4	25.5	22.5	20.4	19.7	20.4	19.7	19.7
140°	21.9	22.5	23.3	21.9	19.0	16.8	16.0	15.3	15.3	15.3	15.3
142.5°	16.8	16.8	17.4	16.0	13.8	12.4	11.7	11.7	11.7	11.7	11.7
145°	10.9	11.7	11.7	10.9	9.4	8.7	8.1	7.3	7.3	7.3	7.3
147.5°	5.7	6.6	7.3	6.6	5.7	5.1	4.4	4.4	3.6	3.6	3.6
150°	3.0	3.0	3.6	3.6	3.0	2.2	1.4	1.4	1.4	0.7	0.7
152.5°	1.4	1.4	2.2	2.2	1.4	0.7	0.0	0.0	0.0	0.0	0.0
155°	1.4	1.4	2.2	2.2	1.4	0.7	0.0	0.0	0.0	0.0	0.0
157.5°	1.4	1.4	1.4	2.2	1.4	0.7	0.0	0.0	0.0	0.0	0.0
160°	1.4	1.4	1.4	2.2	1.4	0.7	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	0.0	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)