

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: P271883

Luminaire Tested: **MPB-AF-D-U-ASYM-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271883
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-7027-800
Description: BRECKENRIDGE LED POST-TOP LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND ASYMMETRIC OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3129 lumens
Efficiency: N/A
Efficacy: 71.1 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): 44
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



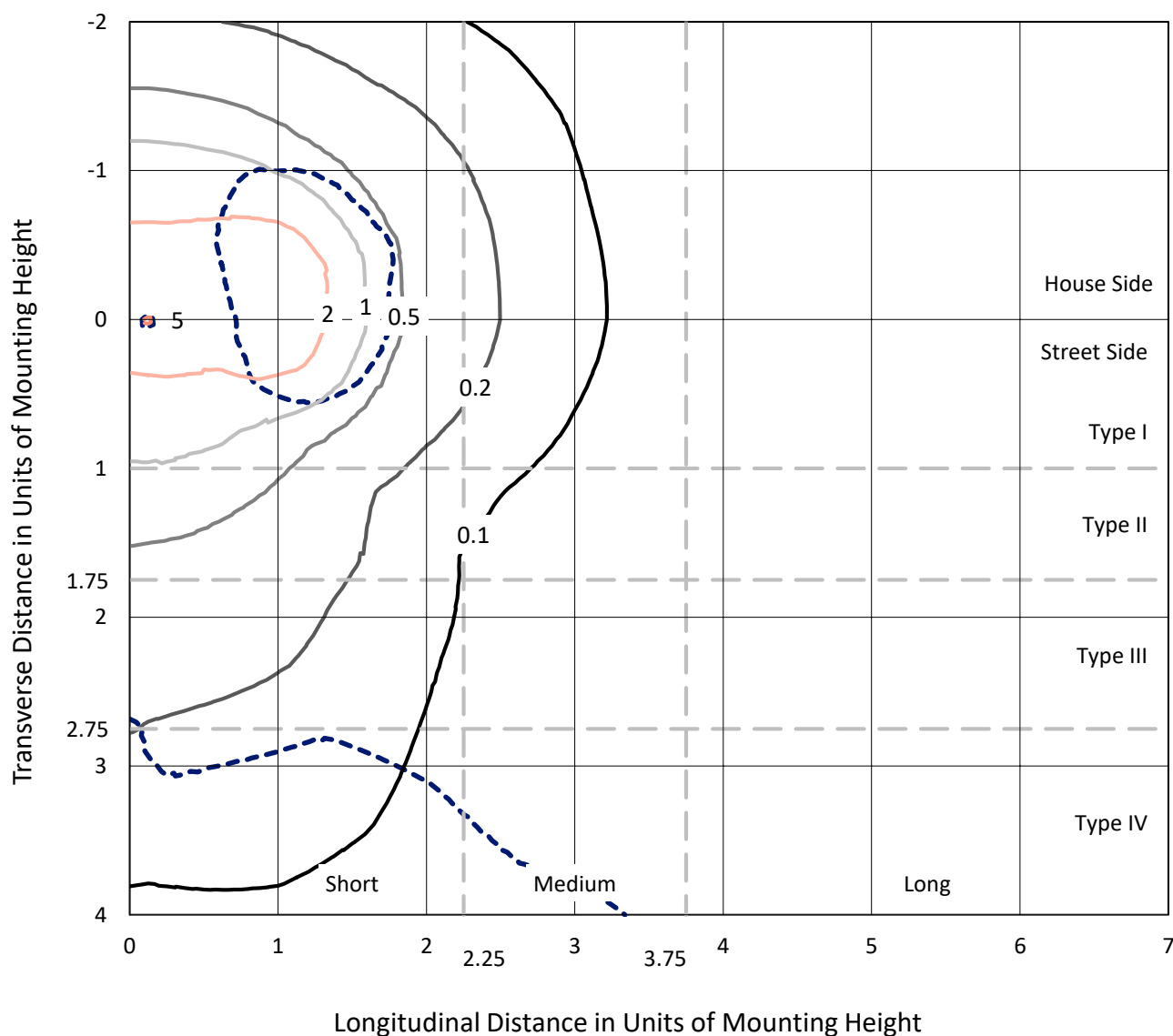
REPORT NUMBER: P271883

CATALOG NUMBER: MPB-AF-D-U-ASYM-7027-800

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

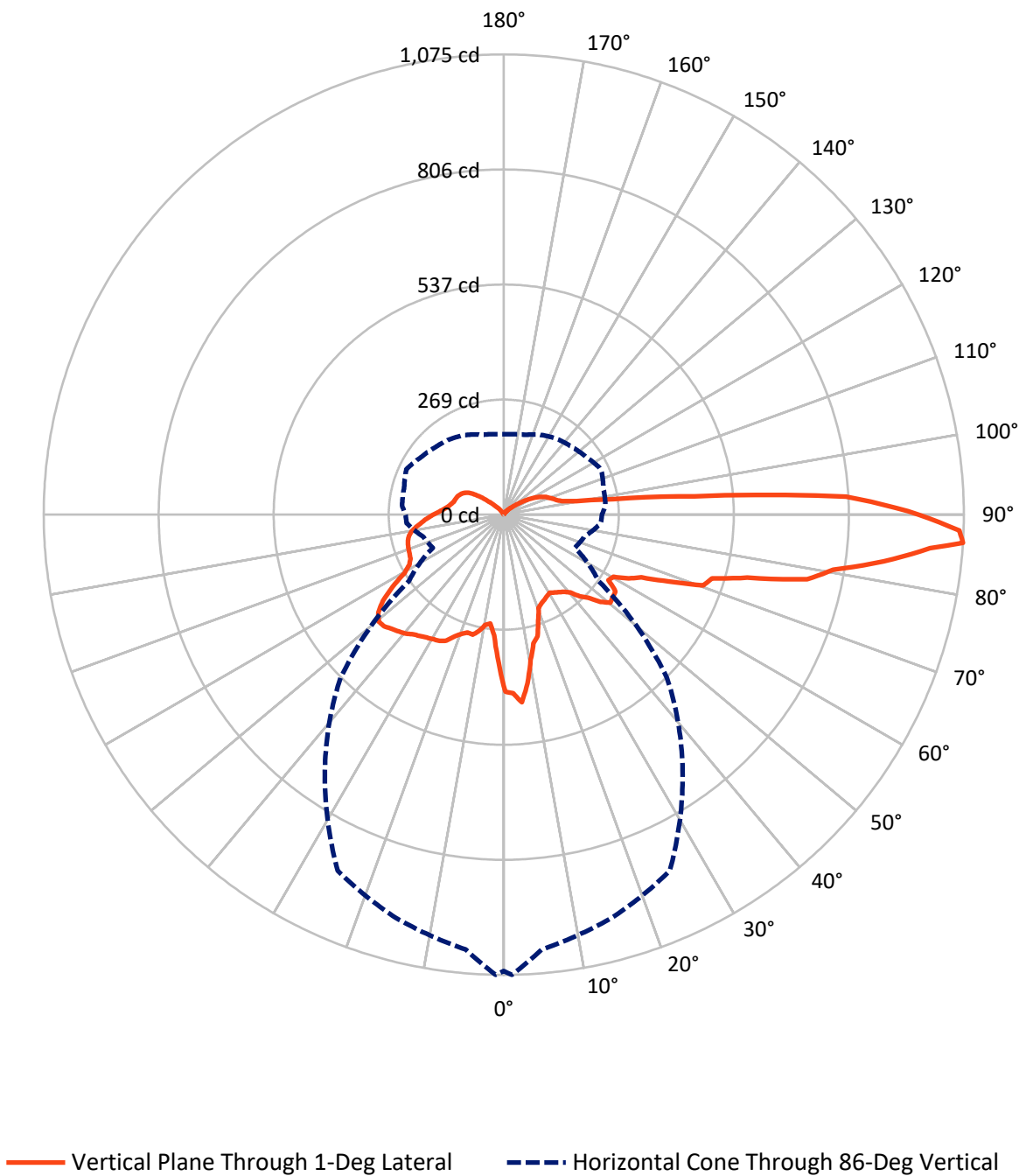


Based on 10 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P271883

CATALOG NUMBER: MPB-AF-D-U-ASYM-7027-800

Luminous Intensity Polar Plot



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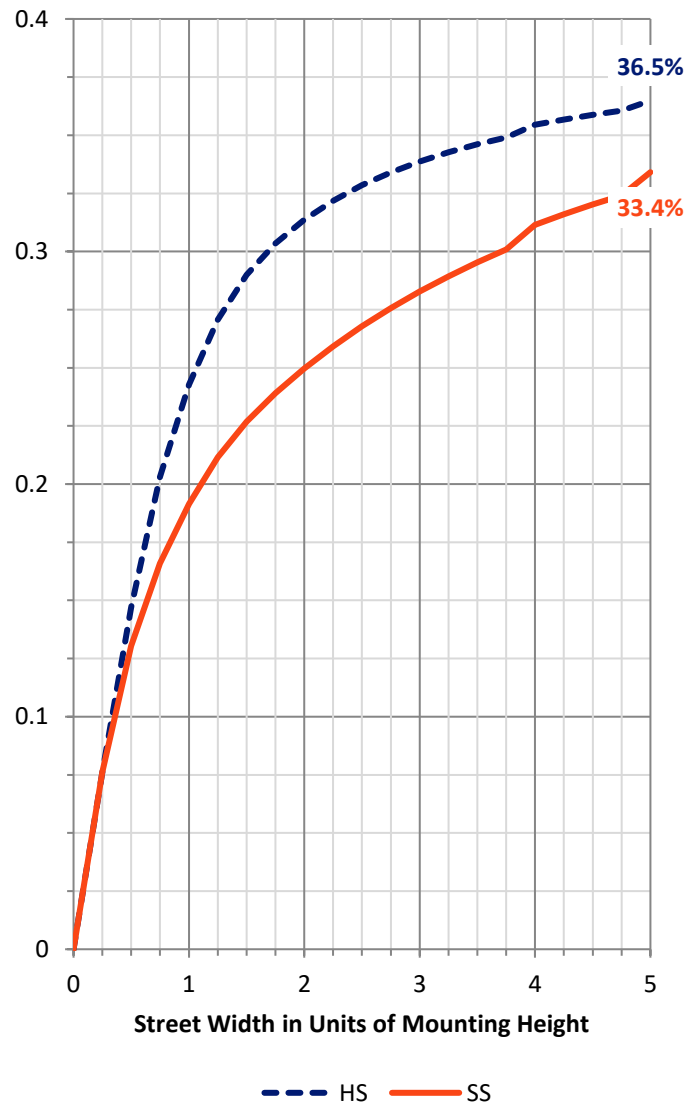
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1209.9	296.6	1506.5
	% Fixture	38.7	9.5	48.1
Street Side	Lumens	1272.6	350.0	1622.6
	% Fixture	40.7	11.2	51.9
Total	Lumens	2482.5	646.5	3129.0
	% Fixture	79.3	20.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.5	1.3
10°-20°	96.3	3.1
20°-30°	149.5	4.8
30°-40°	239.3	7.6
40°-50°	395.3	12.6
50°-60°	426.9	13.6
60°-70°	326.4	10.4
70°-80°	385.4	12.3
80°-90°	424.0	13.6
90°-100°	257.5	8.2
100°-110°	131.0	4.2
110°-120°	127.5	4.1
120°-130°	93.6	3.0
130°-140°	29.7	0.9
140°-150°	6.6	0.2
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2482.5	79.3
0°-180°	3129.0	100.0

Coefficient of Utilization



REPORT NUMBER: P271883

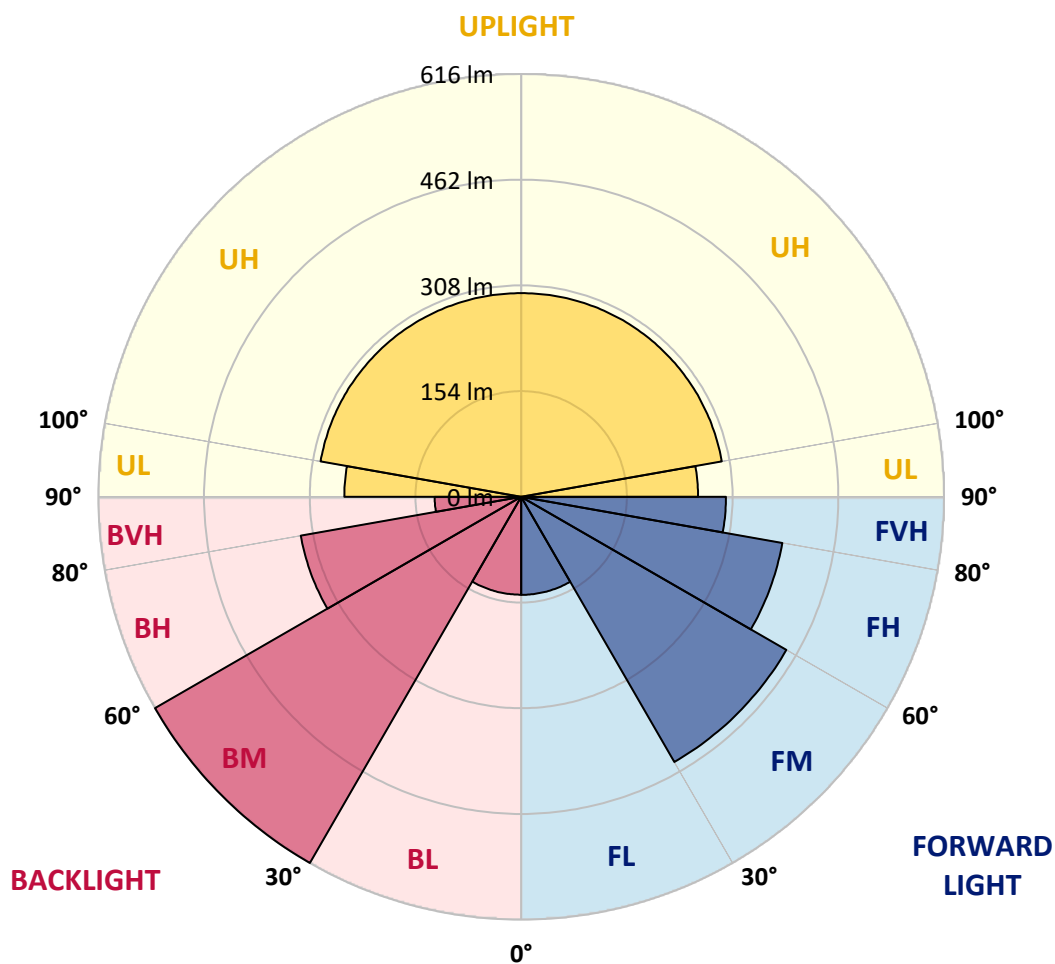
CATALOG NUMBER: MPB-AF-D-U-ASYM-7027-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	142.7	4.6			
FM	(30°-60°)	445.8	14.2			
FH	(60°-80°)	386.0	12.3			G0/660
FVH	(80°-90°)	298.1	9.5			G3/500
BL	(0°-30°)	142.5	4.6	B1/500		
BM	(30°-60°)	615.6	19.7	B1/1000		
BH	(60°-80°)	325.8	10.4	B1/500		G1/500
BVH	(80°-90°)	126.0	4.0			G2/225
UL	(90°-100°)	257.5	8.2		U3/500	
UH	(100°-180°)	296.6	9.5		U3/500	

BUG Rating: B1-U3-G3

Type IV Short





REPORT NUMBER: P271883

CATALOG NUMBER: MPB-AF-D-U-ASYM-7027-800

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	413.3	413.3	413.3	413.3	413.3	413.3	413.3	413.3	413.3	413.3	413.3
2.5°	418.6	417.7	415.9	418.6	421.3	441.9	455.2	453.5	437.4	430.2	424.9
5°	446.3	440.1	435.6	442.8	442.8	480.2	499.0	471.3	466.0	479.3	465.1
7.5°	399.8	398.1	396.3	404.3	419.5	485.5	496.2	559.6	578.4	556.1	553.4
10°	341.9	344.5	341.9	384.7	444.5	490.0	430.2	446.3	475.7	485.5	438.2
12.5°	305.2	308.8	312.4	340.1	356.2	341.9	369.6	380.3	398.9	396.3	376.7
15°	291.1	294.6	292.8	280.3	298.1	324.0	346.4	367.8	389.1	368.7	368.7
17.5°	268.6	260.7	258.8	246.3	277.6	313.3	354.3	383.8	378.5	409.6	437.4
20°	234.7	232.1	232.1	238.3	265.1	308.8	382.9	449.0	493.6	458.9	416.8
22.5°	225.8	224.9	228.5	239.2	265.1	287.4	320.4	349.0	353.4	349.9	349.0
25°	220.4	220.4	224.0	236.5	246.3	263.3	303.4	328.5	330.3	348.1	348.1
27.5°	217.7	215.1	215.1	227.6	240.9	266.9	288.3	311.5	323.1	358.9	417.7
30°	212.4	211.6	212.4	224.9	245.5	262.5	290.2	309.7	326.7	362.4	379.4
32.5°	215.1	216.9	214.2	223.2	239.2	262.5	294.6	325.7	338.3	400.7	430.2
35°	222.2	222.2	218.6	223.2	235.6	258.8	298.1	345.5	368.7	449.9	493.6
37.5°	225.8	228.5	227.6	234.7	248.1	266.9	299.9	362.4	409.6	484.6	565.9
40°	239.2	239.2	240.0	252.6	262.5	274.9	300.8	371.3	463.3	526.7	656.9
42.5°	257.9	260.7	257.1	256.2	264.2	281.2	300.8	367.8	529.3	590.0	763.2
45°	273.2	276.7	274.1	280.3	279.5	292.8	300.8	359.7	549.0	659.6	856.9
47.5°	308.0	304.3	308.0	309.7	301.7	307.0	311.5	358.0	544.6	741.7	908.6
50°	322.2	323.1	320.4	315.0	313.3	308.0	312.4	345.5	529.3	797.1	941.7
52.5°	321.3	318.7	322.2	314.1	308.0	306.1	299.0	324.0	499.9	770.3	862.2
55°	320.4	316.8	310.6	299.9	289.3	287.4	283.9	300.8	431.2	645.3	756.9
57.5°	288.3	288.3	284.8	284.8	275.8	266.9	266.9	261.6	360.6	523.0	650.7
60°	293.7	294.6	291.1	296.4	290.2	265.1	268.6	233.9	301.7	395.4	475.7
62.5°	331.1	327.6	319.5	319.5	311.5	270.5	251.7	225.8	272.3	337.4	397.2
65°	356.2	353.4	354.3	360.6	351.7	300.8	280.3	228.5	261.6	323.1	375.9
67.5°	414.2	415.9	418.6	435.6	404.3	341.0	312.4	234.7	257.1	320.4	370.4
70°	515.0	494.4	479.3	441.9	429.3	352.6	320.4	240.9	253.5	320.4	366.9
72.5°	502.5	508.8	500.7	515.0	511.5	411.5	329.4	250.9	250.9	315.0	366.0
75°	595.4	587.3	605.2	661.4	600.8	473.0	382.9	261.6	243.7	305.2	358.9
77.5°	727.4	724.8	704.2	688.2	652.5	500.7	444.5	291.1	226.7	284.8	338.3
80°	789.0	780.1	794.4	762.3	745.3	576.6	438.2	278.5	207.1	258.8	307.0
82.5°	898.8	894.4	903.2	989.0	849.8	660.5	482.0	284.8	193.7	231.1	272.3
85°	994.3	998.8	1028.3	996.1	923.0	721.2	509.7	297.2	186.6	205.4	240.0
86°	1065.7	1074.7	1019.4	974.8	917.6	728.3	539.2	270.5	183.0	195.5	227.6
87.5°	1051.5	1064.9	1045.2	1026.5	957.8	751.5	550.8	240.9	179.4	181.2	209.8
90°	973.9	944.4	976.5	1005.9	881.9	678.4	495.3	249.0	163.3	162.4	184.8
92.5°	804.3	800.7	781.1	774.8	698.9	547.2	415.9	208.0	149.9	145.4	164.2
95°	476.6	448.1	432.9	509.7	463.3	421.3	306.1	193.7	134.7	130.3	144.5
97.5°	266.9	257.9	248.1	283.0	294.6	264.2	198.2	141.9	119.7	119.7	130.3
100°	180.3	173.1	170.5	171.4	185.7	171.4	142.8	116.0	108.0	112.5	120.6
102.5°	140.1	139.2	136.5	138.4	141.0	132.1	119.7	109.9	106.2	112.5	116.9
105°	127.6	127.6	125.0	124.1	126.8	118.8	112.5	106.2	108.0	116.9	119.7
107.5°	119.7	120.6	116.9	116.9	116.9	112.5	107.1	104.5	111.6	123.2	125.9



REPORT NUMBER: P271883

CATALOG NUMBER: MPB-AF-D-U-ASYM-7027-800

CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	112.5	112.5	109.9	109.9	110.7	106.2	102.7	102.7	115.2	130.3	133.8
112.5°	105.3	106.2	103.6	103.6	103.6	100.0	98.2	101.8	119.7	139.2	144.5
115°	96.4	96.4	94.6	96.4	96.4	94.6	94.6	101.8	129.4	152.6	160.7
117.5°	85.7	85.7	84.8	87.5	88.3	89.2	92.0	102.7	140.1	167.8	180.3
120°	74.1	74.1	74.1	77.6	79.4	82.1	87.5	100.9	146.3	179.4	192.8
122.5°	61.6	61.6	61.6	64.3	66.9	72.3	79.4	93.7	140.1	173.1	188.4
125°	49.0	49.0	49.9	51.7	55.3	60.6	67.8	81.3	120.6	149.1	165.1
127.5°	39.3	39.3	39.3	41.1	43.7	49.0	55.3	66.9	94.6	118.8	133.8
130°	31.2	31.2	31.2	32.1	34.0	37.5	43.7	53.6	72.3	89.2	100.9
132.5°	25.1	24.2	25.1	25.1	26.8	29.5	33.0	39.3	50.8	63.4	72.3
135°	20.5	20.5	20.5	20.5	21.4	22.3	25.9	28.6	34.9	42.8	47.3
137.5°	16.1	16.1	16.1	16.1	17.0	17.0	18.8	21.4	24.2	29.5	34.0
140°	12.5	12.5	12.5	12.5	12.5	13.4	14.4	15.2	17.9	22.3	25.9
142.5°	9.8	9.8	9.8	9.8	9.8	9.8	10.7	11.6	13.4	16.1	18.8
145°	6.3	7.2	6.3	6.3	6.3	6.3	7.2	7.2	8.9	10.7	12.5
147.5°	3.5	4.4	3.5	3.5	3.5	3.5	3.5	4.4	4.4	6.3	7.2
150°	1.8	1.8	1.8	1.8	1.8	0.9	1.8	1.8	1.8	2.7	3.5
152.5°	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	1.8	1.8
155°	0.0	0.0	0.0	0.9	0.9	0.9	0.0	0.9	0.9	1.8	1.8
157.5°	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	1.8	1.8
160°	0.0	0.0	0.0	0.9	0.9	0.9	0.0	0.9	0.9	1.8	1.8
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: P271883

CATALOG NUMBER: MPB-AF-D-U-ASYM-7027-800

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	413.3	413.3	413.3	413.3	413.3	413.3	413.3	413.3	413.3	413.3	413.3
2.5°	423.1	423.1	425.8	425.8	423.1	412.4	396.3	380.3	361.5	348.1	344.5
5°	455.2	441.0	425.8	400.7	379.4	375.0	342.7	313.3	296.4	283.9	282.1
7.5°	553.4	535.6	473.9	457.0	428.4	392.8	302.5	273.2	261.6	257.1	256.2
10°	415.9	392.8	356.2	342.7	337.4	317.8	288.3	270.5	264.2	262.5	260.7
12.5°	364.2	352.6	336.5	324.8	316.8	300.8	283.9	273.2	271.4	276.7	277.6
15°	363.3	367.8	359.7	332.0	309.7	296.4	286.5	284.8	285.6	290.2	289.3
17.5°	449.0	431.2	401.6	359.7	327.6	328.5	326.7	299.9	296.4	289.3	287.4
20°	400.7	382.9	379.4	354.3	345.5	316.8	323.1	311.5	305.2	297.2	294.6
22.5°	347.3	339.2	324.0	317.8	315.0	324.0	324.0	314.1	310.6	307.0	306.1
25°	343.6	344.5	362.4	361.5	335.6	340.1	333.8	323.1	323.1	324.8	323.1
27.5°	417.7	395.4	370.4	369.6	358.9	370.4	350.8	335.6	334.7	332.0	330.3
30°	382.0	382.0	388.2	386.5	378.5	372.2	361.5	347.3	341.9	335.6	333.8
32.5°	433.8	437.4	451.7	435.6	415.9	397.2	378.5	358.0	347.3	339.2	338.3
35°	479.3	486.4	526.7	493.6	467.7	427.5	398.9	368.7	352.6	345.5	343.6
37.5°	538.3	544.6	611.5	558.7	517.7	460.7	421.3	381.2	360.6	350.8	349.9
40°	616.8	617.7	690.0	642.6	594.5	497.2	434.7	390.9	371.3	360.6	359.7
42.5°	721.2	715.9	805.2	759.6	656.9	523.9	441.0	393.6	375.0	367.8	366.9
45°	818.5	811.3	884.7	865.9	684.6	540.9	449.0	402.6	381.2	375.0	373.1
47.5°	883.7	894.4	947.0	942.6	701.6	548.1	462.4	412.4	389.1	382.9	382.0
50°	951.6	964.0	1016.6	938.1	712.3	553.4	472.1	419.5	392.8	385.6	383.8
52.5°	966.7	970.3	1005.9	889.1	689.1	537.4	464.2	410.5	382.0	374.1	371.3
55°	864.9	838.2	955.1	769.4	628.4	490.0	434.7	384.7	356.2	349.9	346.4
57.5°	716.8	675.6	768.5	636.4	536.5	436.5	386.5	346.4	319.5	312.4	308.8
60°	531.1	495.3	559.6	487.4	435.6	358.9	318.7	295.5	274.1	269.5	268.6
62.5°	437.4	420.4	452.6	415.9	375.0	320.4	290.2	270.5	251.7	249.9	249.9
65°	404.3	400.7	419.5	393.6	357.1	308.8	281.2	262.5	244.6	241.9	240.9
67.5°	390.0	390.9	399.8	387.3	355.3	307.0	279.5	259.7	241.9	239.2	238.3
70°	385.6	385.6	385.6	387.3	358.0	307.0	279.5	260.7	240.9	237.4	236.5
72.5°	382.9	382.9	376.7	383.8	355.3	305.2	279.5	259.7	240.0	235.6	234.7
75°	372.2	373.1	365.1	376.7	346.4	301.7	278.5	257.9	237.4	233.0	232.1
77.5°	349.0	350.8	345.5	360.6	331.1	294.6	274.1	254.4	233.9	228.5	227.6
80°	313.3	321.3	318.7	332.9	307.0	280.3	262.5	244.6	224.9	220.4	219.5
82.5°	274.9	284.8	286.5	297.2	276.7	257.9	242.8	228.5	210.7	207.1	206.3
85°	241.9	250.9	254.4	263.3	246.3	233.9	223.2	211.6	197.3	193.7	192.8
86°	229.3	238.3	240.9	250.9	234.7	224.0	216.0	205.4	192.8	188.4	187.5
87.5°	211.6	219.5	224.0	232.1	217.7	209.8	204.5	196.4	184.8	181.2	180.3
90°	186.6	194.7	197.3	201.7	190.1	185.7	183.8	178.5	170.5	166.9	166.9
92.5°	165.1	172.3	174.9	177.7	167.8	164.2	165.1	162.4	157.1	154.4	153.5
95°	145.4	151.7	153.5	156.2	148.2	147.3	151.7	150.8	146.3	143.7	142.8
97.5°	131.2	135.6	137.5	138.4	133.8	135.6	140.1	141.0	138.4	135.6	134.7
100°	121.5	124.1	126.8	128.5	124.1	126.8	132.1	132.9	131.2	129.4	128.5
102.5°	117.8	119.7	124.1	125.9	120.6	121.5	125.9	127.6	125.9	124.1	124.1
105°	120.6	121.5	128.5	131.2	123.2	120.6	122.3	124.1	121.5	120.6	120.6
107.5°	126.8	127.6	137.5	140.1	131.2	124.1	122.3	122.3	120.6	118.8	118.8



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	134.7	137.5	148.2	153.5	142.8	128.5	122.3	121.5	119.7	116.9	117.8
112.5°	146.3	148.2	160.7	167.8	155.2	132.9	122.3	119.7	116.9	115.2	116.0
115°	163.3	162.4	177.7	183.8	166.9	137.5	123.2	116.9	114.3	112.5	112.5
117.5°	183.0	181.2	196.4	196.4	175.9	141.0	123.2	114.3	110.7	109.0	109.0
120°	196.4	192.8	209.8	202.6	176.8	141.0	122.3	110.7	106.2	104.5	103.6
122.5°	193.7	190.1	209.8	193.7	163.3	130.3	114.3	104.5	99.0	97.3	96.4
125°	169.6	166.1	178.5	163.3	137.5	109.0	96.4	88.3	85.7	83.9	83.9
127.5°	137.5	134.7	137.5	127.6	108.0	87.5	77.6	72.3	70.4	69.6	69.6
130°	100.9	101.8	103.6	96.4	81.3	67.8	59.7	56.2	55.3	54.4	54.4
132.5°	73.2	73.2	75.0	70.4	58.9	50.8	46.4	43.7	43.7	42.8	42.8
135°	49.0	49.9	51.7	49.0	42.0	36.7	34.0	33.0	33.0	32.1	32.1
137.5°	34.9	36.7	37.5	34.9	31.2	27.7	25.1	24.2	25.1	24.2	24.2
140°	26.8	27.7	28.6	26.8	23.2	20.5	19.7	18.8	18.8	18.8	18.8
142.5°	20.5	20.5	21.4	19.7	17.0	15.2	14.4	14.4	14.4	14.4	14.4
145°	13.4	14.4	14.4	13.4	11.6	10.7	9.8	8.9	8.9	8.9	8.9
147.5°	7.2	8.1	8.9	8.1	7.2	6.3	5.4	5.4	4.4	4.4	4.4
150°	3.5	3.5	4.4	4.4	3.5	2.7	1.8	1.8	1.8	0.9	0.9
152.5°	1.8	1.8	2.7	2.7	1.8	0.9	0.0	0.0	0.0	0.0	0.0
155°	1.8	1.8	2.7	2.7	1.8	0.9	0.0	0.0	0.0	0.0	0.0
157.5°	1.8	1.8	1.8	2.7	1.8	0.9	0.0	0.0	0.0	0.0	0.0
160°	1.8	1.8	1.8	2.7	1.8	0.9	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)