

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: P212582

Luminaire Tested: **MPB-AF-D-U-ASYM-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P212582
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-7030
Description: BRECKENRIDGE LED POST-TOP LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND ASYMMETRIC OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4311.4 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.62')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U4 - G3

Input Watts (W): 58
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



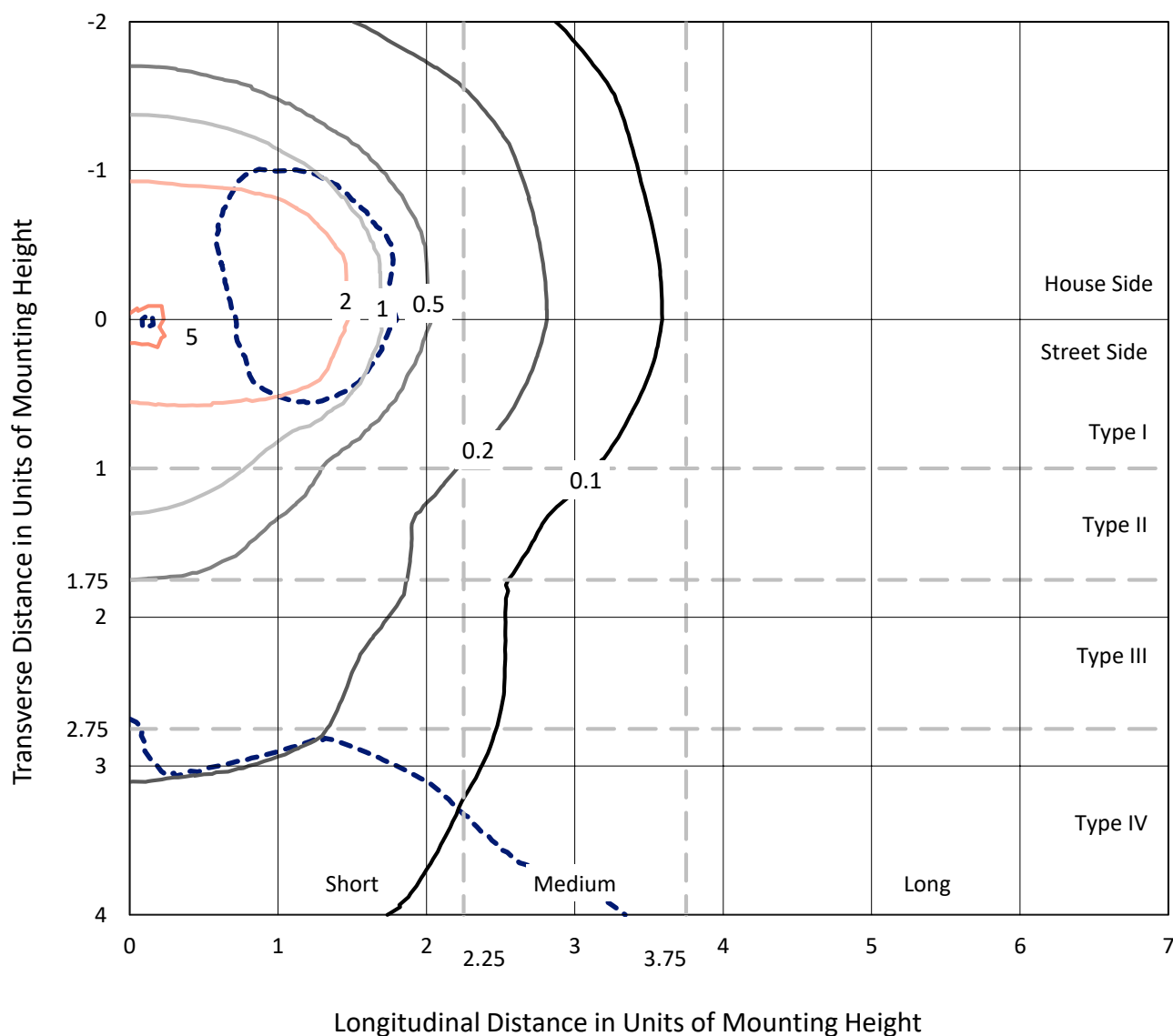
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

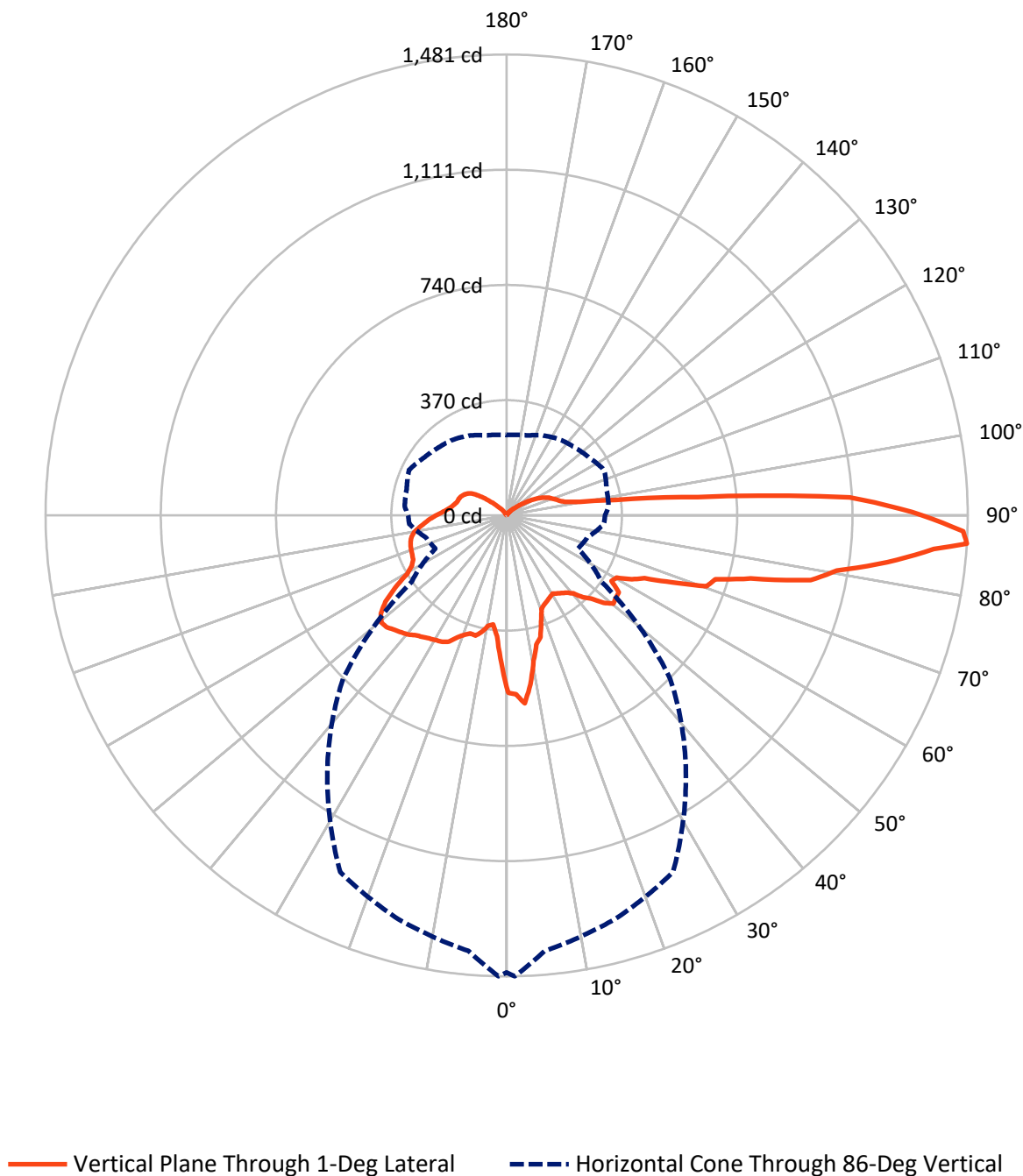


Based on 10 foot mounting height. Maximum calculated value = 7.3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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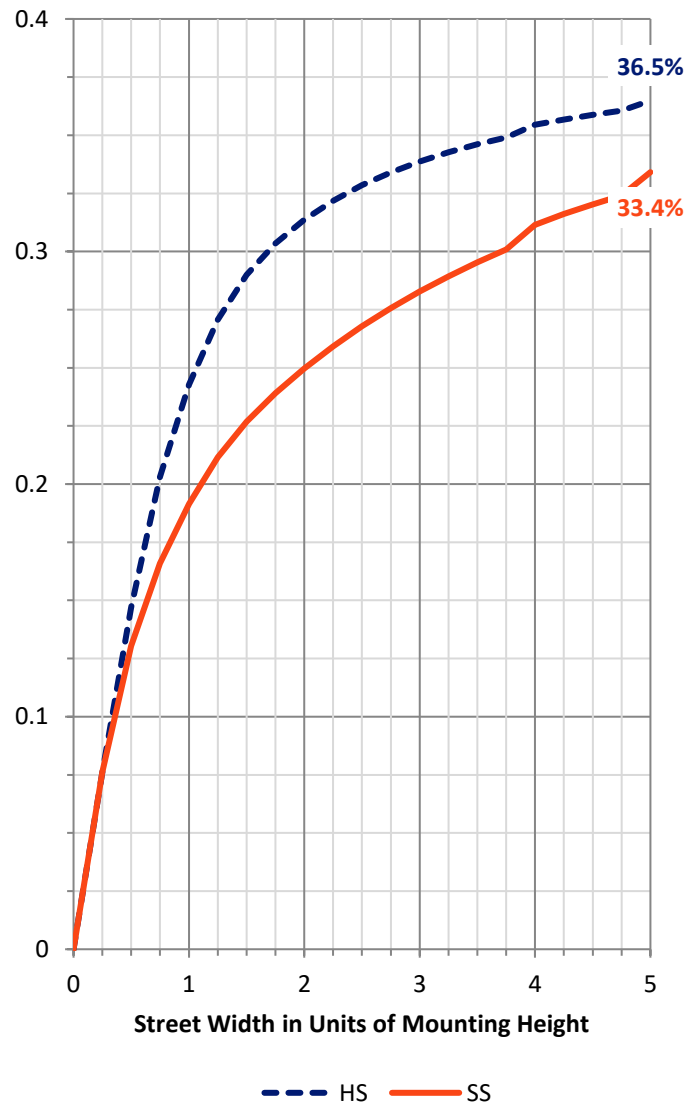
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1667.1	408.6	2075.7
	% Fixture	38.7	9.5	48.1
Street Side	Lumens	1753.5	482.2	2235.7
	% Fixture	40.7	11.2	51.9
Total	Lumens	3420.6	890.8	4311.4
	% Fixture	79.3	20.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.4	1.3
10°-20°	132.7	3.1
20°-30°	205.9	4.8
30°-40°	329.7	7.6
40°-50°	544.6	12.6
50°-60°	588.2	13.6
60°-70°	449.8	10.4
70°-80°	531.0	12.3
80°-90°	584.3	13.6
90°-100°	354.8	8.2
100°-110°	180.5	4.2
110°-120°	175.7	4.1
120°-130°	129.0	3.0
130°-140°	40.9	0.9
140°-150°	9.0	0.2
150°-160°	0.8	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	3420.6	79.3
0°-180°	4311.4	100.0

Coefficient of Utilization



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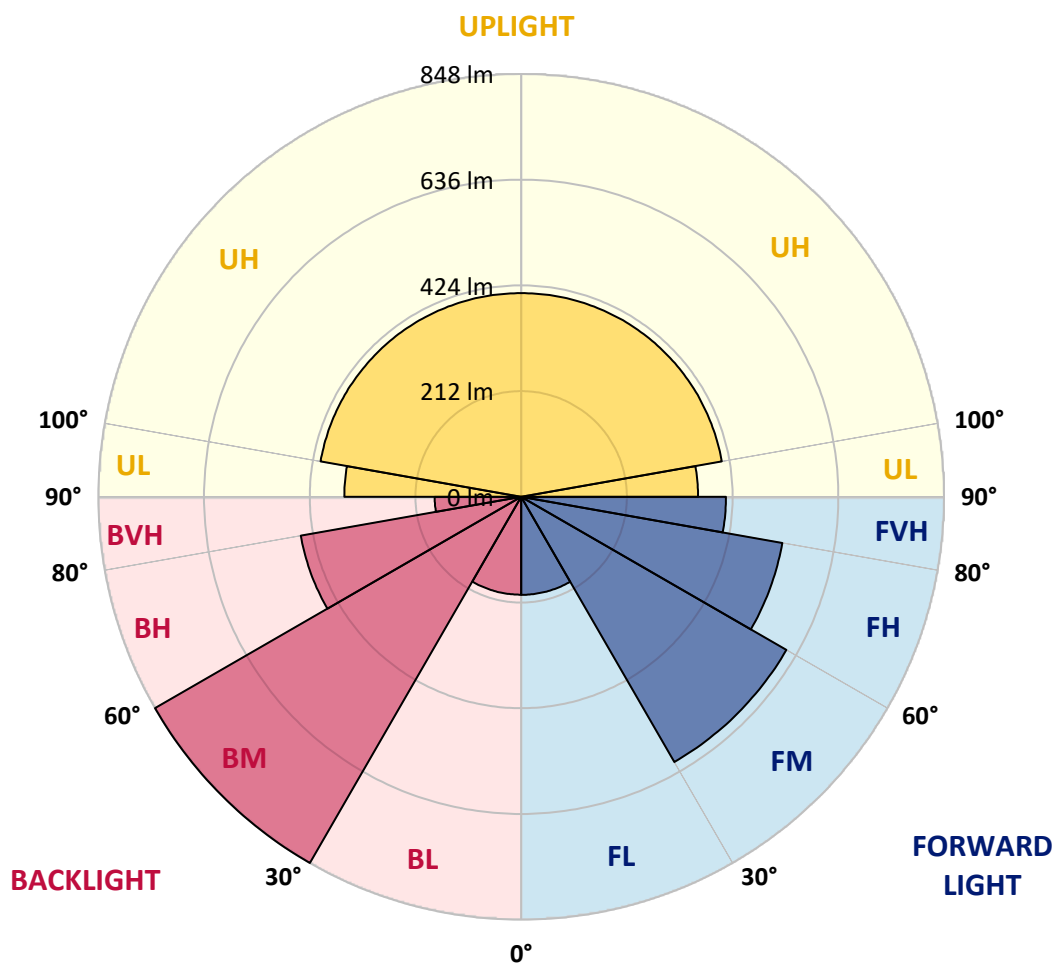
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	196.6	4.6			
FM	(30°-60°)	614.2	14.2			
FH	(60°-80°)	531.9	12.3			G0/660
FVH	(80°-90°)	410.7	9.5			G3/500
BL	(0°-30°)	196.4	4.6	B1/500		
BM	(30°-60°)	848.2	19.7	B1/1000		
BH	(60°-80°)	448.9	10.4	B1/500		G1/500
BVH	(80°-90°)	173.6	4.0			G2/225
UL	(90°-100°)	354.8	8.2		U3/500	
UH	(100°-180°)	408.6	9.5		U3/500	

BUG Rating: B1-U4-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	569.5	569.5	569.5	569.5	569.5	569.5	569.5	569.5	569.5	569.5	569.5
2.5°	576.8	575.6	573.2	576.8	580.5	608.8	627.3	624.7	602.7	592.8	585.4
5°	614.9	606.4	600.2	610.0	610.0	661.7	687.5	649.4	642.0	660.5	640.8
7.5°	551.0	548.5	546.1	557.1	578.1	669.1	683.9	771.2	796.9	766.2	762.5
10°	471.0	474.7	471.0	530.1	612.5	675.2	592.8	614.9	655.6	669.1	603.9
12.5°	420.6	425.6	430.5	468.6	490.7	471.0	509.1	523.9	549.8	546.1	519.0
15°	401.0	405.9	403.4	386.2	410.8	446.4	477.2	506.7	536.2	507.9	507.9
17.5°	370.2	359.1	356.6	339.5	382.5	431.7	488.3	528.8	521.5	564.5	602.7
20°	323.5	319.8	319.8	328.4	365.3	425.6	527.6	618.6	680.1	632.2	574.4
22.5°	311.2	310.0	314.9	329.6	365.3	396.1	441.5	480.8	487.1	482.2	480.8
25°	303.7	303.7	308.7	325.9	339.5	362.8	418.1	452.6	455.1	479.6	479.6
27.5°	300.1	296.4	296.4	313.6	332.0	367.8	397.3	429.3	445.2	494.4	575.6
30°	292.7	291.5	292.7	310.0	338.3	361.5	399.7	426.8	450.1	499.3	522.7
32.5°	296.4	298.8	295.2	307.5	329.6	361.5	405.9	448.9	466.1	552.2	592.8
35°	306.3	306.3	301.3	307.5	324.7	356.6	410.8	475.9	507.9	619.8	680.1
37.5°	311.2	314.9	313.6	323.5	341.9	367.8	413.2	499.3	564.5	667.8	779.8
40°	329.6	329.6	330.8	348.1	361.5	378.8	414.5	511.7	638.3	725.6	905.2
42.5°	355.4	359.1	354.2	353.0	364.1	387.4	414.5	506.7	729.3	813.0	1051.5
45°	376.4	381.3	377.6	386.2	384.9	403.4	414.5	495.6	756.4	908.9	1180.7
47.5°	424.4	419.4	424.4	426.8	415.7	423.1	429.3	493.2	750.3	1022.0	1252.0
50°	444.0	445.2	441.5	434.2	431.7	424.4	430.5	475.9	729.3	1098.3	1297.6
52.5°	442.7	439.1	444.0	432.9	424.4	421.8	412.0	446.4	688.8	1061.5	1188.1
55°	441.5	436.6	428.0	413.2	398.5	396.1	391.1	414.5	594.0	889.3	1043.0
57.5°	397.3	397.3	392.4	392.4	380.0	367.8	367.8	360.3	496.9	720.7	896.6
60°	404.6	405.9	401.0	408.3	399.7	365.3	370.2	322.2	415.7	544.9	655.6
62.5°	456.3	451.4	440.3	440.3	429.3	372.7	346.8	311.2	375.1	464.9	547.3
65°	490.7	487.1	488.3	496.9	484.6	414.5	386.2	314.9	360.3	445.2	517.8
67.5°	570.7	573.2	576.8	600.2	557.1	469.8	430.5	323.5	354.2	441.5	510.5
70°	709.6	681.3	660.5	608.8	591.5	485.8	441.5	332.0	349.3	441.5	505.5
72.5°	692.5	701.0	690.0	709.6	704.7	566.9	453.9	345.6	345.6	434.2	504.2
75°	820.3	809.3	833.9	911.3	827.7	651.8	527.6	360.3	335.8	420.6	494.4
77.5°	1002.3	998.6	970.4	948.3	899.1	690.0	612.5	401.0	312.4	392.4	466.1
80°	1087.2	1074.9	1094.6	1050.3	1026.9	794.5	603.9	383.7	285.4	356.6	423.1
82.5°	1238.5	1232.3	1244.7	1362.7	1170.8	910.1	664.2	392.4	266.9	318.5	375.1
85°	1370.1	1376.2	1416.9	1372.5	1271.7	993.7	702.3	409.5	257.1	282.9	330.8
86°	1468.4	1480.8	1404.5	1343.0	1264.3	1003.5	742.9	372.7	252.2	269.3	313.6
87.5°	1448.8	1467.2	1440.3	1414.4	1319.6	1035.6	758.8	332.0	247.3	249.7	289.0
90°	1341.8	1301.3	1345.5	1386.1	1215.2	934.7	682.5	343.2	225.1	223.9	254.6
92.5°	1108.1	1103.2	1076.2	1067.6	963.0	753.9	573.2	286.6	206.6	200.5	226.3
95°	656.8	617.4	596.4	702.3	638.3	580.5	421.8	266.9	185.7	179.5	199.3
97.5°	367.8	355.4	341.9	389.8	405.9	364.1	273.0	195.6	164.8	164.8	179.5
100°	248.5	238.6	234.9	236.1	255.8	236.1	196.8	159.8	148.8	154.9	166.1
102.5°	193.1	191.9	188.1	190.7	194.4	182.0	164.8	151.3	146.4	154.9	161.2
105°	175.9	175.9	172.2	171.0	174.6	163.6	154.9	146.4	148.8	161.2	164.8
107.5°	164.8	166.1	161.2	161.2	161.2	154.9	147.6	143.9	153.7	169.7	173.4



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CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	154.9	154.9	151.3	151.3	152.5	146.4	141.5	141.5	158.6	179.5	184.5
112.5°	145.1	146.4	142.7	142.7	142.7	137.8	135.3	140.2	164.8	191.9	199.3
115°	132.9	132.9	130.3	132.9	132.9	130.3	130.3	140.2	178.3	210.3	221.4
117.5°	118.1	118.1	116.8	120.5	121.7	123.0	126.6	141.5	193.1	231.2	248.5
120°	102.0	102.0	102.0	107.0	109.5	113.2	120.5	139.0	201.7	247.3	265.6
122.5°	84.9	84.9	84.9	88.5	92.2	99.6	109.5	129.1	193.1	238.6	259.5
125°	67.6	67.6	68.8	71.3	76.3	83.6	93.5	111.9	166.1	205.4	227.5
127.5°	54.1	54.1	54.1	56.6	60.3	67.6	76.3	92.2	130.3	163.6	184.5
130°	43.0	43.0	43.0	44.2	46.8	51.7	60.3	73.8	99.6	123.0	139.0
132.5°	34.4	33.2	34.4	34.4	36.9	40.5	45.5	54.1	70.1	87.3	99.6
135°	28.3	28.3	28.3	28.3	29.5	30.7	35.6	39.3	48.0	59.0	65.2
137.5°	22.2	22.2	22.2	22.2	23.4	23.4	25.8	29.5	33.2	40.5	46.8
140°	17.3	17.3	17.3	17.3	17.3	18.5	19.7	20.9	24.6	30.7	35.6
142.5°	13.5	13.5	13.5	13.5	13.5	13.5	14.8	16.0	18.5	22.2	25.8
145°	8.6	9.8	8.6	8.6	8.6	8.6	9.8	9.8	12.3	14.8	17.3
147.5°	4.9	6.1	4.9	4.9	4.9	4.9	4.9	6.1	6.1	8.6	9.8
150°	2.5	2.5	2.5	2.5	2.5	1.2	2.5	2.5	2.5	3.7	4.9
152.5°	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2	2.5	2.5
155°	0.0	0.0	0.0	1.2	1.2	1.2	0.0	1.2	1.2	2.5	2.5
157.5°	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2	2.5	2.5
160°	0.0	0.0	0.0	1.2	1.2	1.2	0.0	1.2	1.2	2.5	2.5
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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	569.5	569.5	569.5	569.5	569.5	569.5	569.5	569.5	569.5	569.5	569.5
2.5°	583.0	583.0	586.6	586.6	583.0	568.3	546.1	523.9	498.1	479.6	474.7
5°	627.3	607.6	586.6	552.2	522.7	516.6	472.3	431.7	408.3	391.1	388.6
7.5°	762.5	737.9	653.0	629.7	590.3	541.2	416.9	376.4	360.3	354.2	353.0
10°	573.2	541.2	490.7	472.3	464.9	437.8	397.3	372.7	364.1	361.5	359.1
12.5°	501.8	485.8	463.7	447.6	436.6	414.5	391.1	376.4	373.9	381.3	382.5
15°	500.5	506.7	495.6	457.5	426.8	408.3	394.8	392.4	393.6	399.7	398.5
17.5°	618.6	594.0	553.5	495.6	451.4	452.6	450.1	413.2	408.3	398.5	396.1
20°	552.2	527.6	522.7	488.3	475.9	436.6	445.2	429.3	420.6	409.5	405.9
22.5°	478.4	467.4	446.4	437.8	434.2	446.4	446.4	432.9	428.0	423.1	421.8
25°	473.5	474.7	499.3	498.1	462.5	468.6	460.0	445.2	445.2	447.6	445.2
27.5°	575.6	544.9	510.5	509.1	494.4	510.5	483.4	462.5	461.2	457.5	455.1
30°	526.4	526.4	535.0	532.5	521.5	512.9	498.1	478.4	471.0	462.5	460.0
32.5°	597.8	602.7	622.3	600.2	573.2	547.3	521.5	493.2	478.4	467.4	466.1
35°	660.5	670.3	725.6	680.1	644.5	589.1	549.8	507.9	485.8	475.9	473.5
37.5°	741.7	750.3	842.5	770.0	713.4	634.6	580.5	525.2	496.9	483.4	482.2
40°	849.8	851.1	950.7	885.5	819.1	685.1	599.0	538.6	511.7	496.9	495.6
42.5°	993.7	986.4	1109.4	1046.6	905.2	722.0	607.6	542.4	516.6	506.7	505.5
45°	1127.8	1117.9	1218.8	1193.0	943.3	745.4	618.6	554.7	525.2	516.6	514.1
47.5°	1217.6	1232.3	1304.9	1298.8	966.7	755.2	637.1	568.3	536.2	527.6	526.4
50°	1311.1	1328.3	1400.8	1292.6	981.5	762.5	650.6	578.1	541.2	531.3	528.8
52.5°	1332.0	1336.9	1386.1	1225.0	949.5	740.4	639.5	565.7	526.4	515.4	511.7
55°	1191.8	1154.9	1316.0	1060.1	865.9	675.2	599.0	530.1	490.7	482.2	477.2
57.5°	987.6	931.0	1058.9	876.9	739.1	601.5	532.5	477.2	440.3	430.5	425.6
60°	731.8	682.5	771.2	671.5	600.2	494.4	439.1	407.1	377.6	371.5	370.2
62.5°	602.7	579.3	623.5	573.2	516.6	441.5	399.7	372.7	346.8	344.4	344.4
65°	557.1	552.2	578.1	542.4	492.0	425.6	387.4	361.5	337.0	333.4	332.0
67.5°	537.4	538.6	551.0	533.7	489.5	423.1	384.9	357.9	333.4	329.6	328.4
70°	531.3	531.3	531.3	533.7	493.2	423.1	384.9	359.1	332.0	327.1	325.9
72.5°	527.6	527.6	519.0	528.8	489.5	420.6	384.9	357.9	330.8	324.7	323.5
75°	512.9	514.1	503.0	519.0	477.2	415.7	383.7	355.4	327.1	321.0	319.8
77.5°	480.8	483.4	475.9	496.9	456.3	405.9	377.6	350.5	322.2	314.9	313.6
80°	431.7	442.7	439.1	458.8	423.1	386.2	361.5	337.0	310.0	303.7	302.5
82.5°	378.8	392.4	394.8	409.5	381.3	355.4	334.6	314.9	290.3	285.4	284.1
85°	333.4	345.6	350.5	362.8	339.5	322.2	307.5	291.5	271.8	266.9	265.6
86°	316.1	328.4	332.0	345.6	323.5	308.7	297.6	282.9	265.6	259.5	258.3
87.5°	291.5	302.5	308.7	319.8	300.1	289.0	281.7	270.5	254.6	249.7	248.5
90°	257.1	268.1	271.8	278.0	262.0	255.8	253.4	245.9	234.9	230.0	230.0
92.5°	227.5	237.4	241.0	244.7	231.2	226.3	227.5	223.9	216.4	212.7	211.5
95°	200.5	209.1	211.5	215.2	204.2	202.9	209.1	207.8	201.7	198.0	196.8
97.5°	180.8	186.9	189.5	190.7	184.5	186.9	193.1	194.4	190.7	186.9	185.7
100°	167.3	171.0	174.6	177.1	171.0	174.6	182.0	183.2	180.8	178.3	177.1
102.5°	162.4	164.8	171.0	173.4	166.1	167.3	173.4	175.9	173.4	171.0	171.0
105°	166.1	167.3	177.1	180.8	169.7	166.1	168.5	171.0	167.3	166.1	166.1
107.5°	174.6	175.9	189.5	193.1	180.8	171.0	168.5	168.5	166.1	163.6	163.6



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CATALOG NUMBER: MPB-AF-D-U-ASYM-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	185.7	189.5	204.2	211.5	196.8	177.1	168.5	167.3	164.8	161.2	162.4
112.5°	201.7	204.2	221.4	231.2	214.0	183.2	168.5	164.8	161.2	158.6	159.8
115°	225.1	223.9	244.7	253.4	230.0	189.5	169.7	161.2	157.4	154.9	154.9
117.5°	252.2	249.7	270.5	270.5	242.3	194.4	169.7	157.4	152.5	150.0	150.0
120°	270.5	265.6	289.0	279.2	243.5	194.4	168.5	152.5	146.4	143.9	142.7
122.5°	266.9	262.0	289.0	266.9	225.1	179.5	157.4	143.9	136.5	134.1	132.9
125°	233.7	228.8	245.9	225.1	189.5	150.0	132.9	121.7	118.1	115.6	115.6
127.5°	189.5	185.7	189.5	175.9	148.8	120.5	107.0	99.6	97.1	95.9	95.9
130°	139.0	140.2	142.7	132.9	111.9	93.5	82.4	77.5	76.3	75.1	75.1
132.5°	100.8	100.8	103.4	97.1	81.2	70.1	63.9	60.3	60.3	59.0	59.0
135°	67.6	68.8	71.3	67.6	57.8	50.5	46.8	45.5	45.5	44.2	44.2
137.5°	48.0	50.5	51.7	48.0	43.0	38.1	34.4	33.2	34.4	33.2	33.2
140°	36.9	38.1	39.3	36.9	32.0	28.3	27.1	25.8	25.8	25.8	25.8
142.5°	28.3	28.3	29.5	27.1	23.4	20.9	19.7	19.7	19.7	19.7	19.7
145°	18.5	19.7	19.7	18.5	16.0	14.8	13.5	12.3	12.3	12.3	12.3
147.5°	9.8	11.0	12.3	11.0	9.8	8.6	7.4	7.4	6.1	6.1	6.1
150°	4.9	4.9	6.1	6.1	4.9	3.7	2.5	2.5	2.5	1.2	1.2
152.5°	2.5	2.5	3.7	3.7	2.5	1.2	0.0	0.0	0.0	0.0	0.0
155°	2.5	2.5	3.7	3.7	2.5	1.2	0.0	0.0	0.0	0.0	0.0
157.5°	2.5	2.5	2.5	3.7	2.5	1.2	0.0	0.0	0.0	0.0	0.0
160°	2.5	2.5	2.5	3.7	2.5	1.2	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)