

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: P256803

Luminaire Tested: **ULA-A7-D-U-ASYM-VMx-7027-HSS-BK**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256803
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1804-729-18)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ULA-A7-D-U-ASYM-VMx-7027-HSS-BK
Description: UTILITY LIGHT ACORN ASYMMETRIC W/ HSS
Light Source: (60) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5457.3 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 2.17')
IES Classification: Type - Short - Non-Cutoff
BUG Rating: B1 - U5 - G3

Input Watts (W): 56.2
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

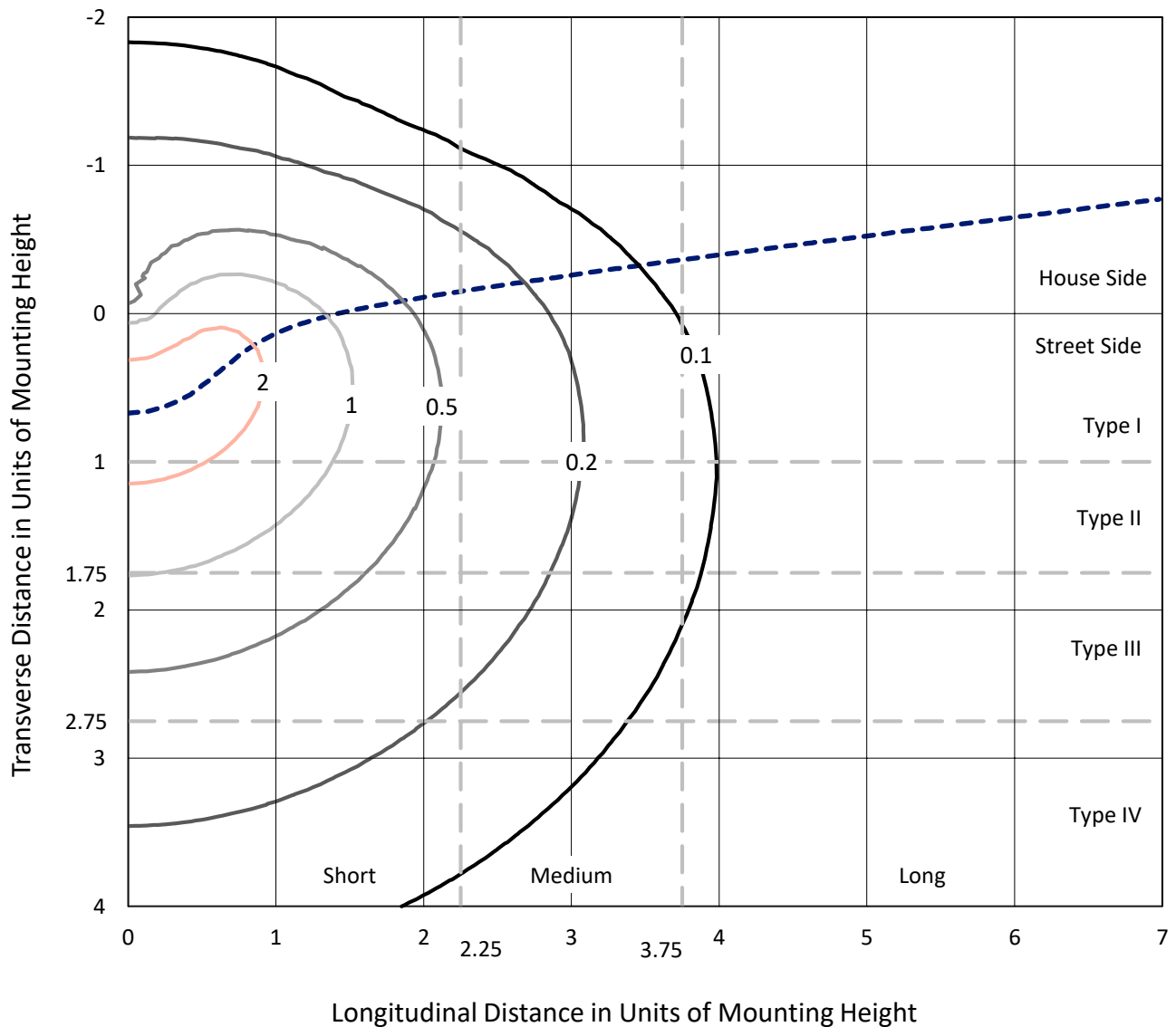


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

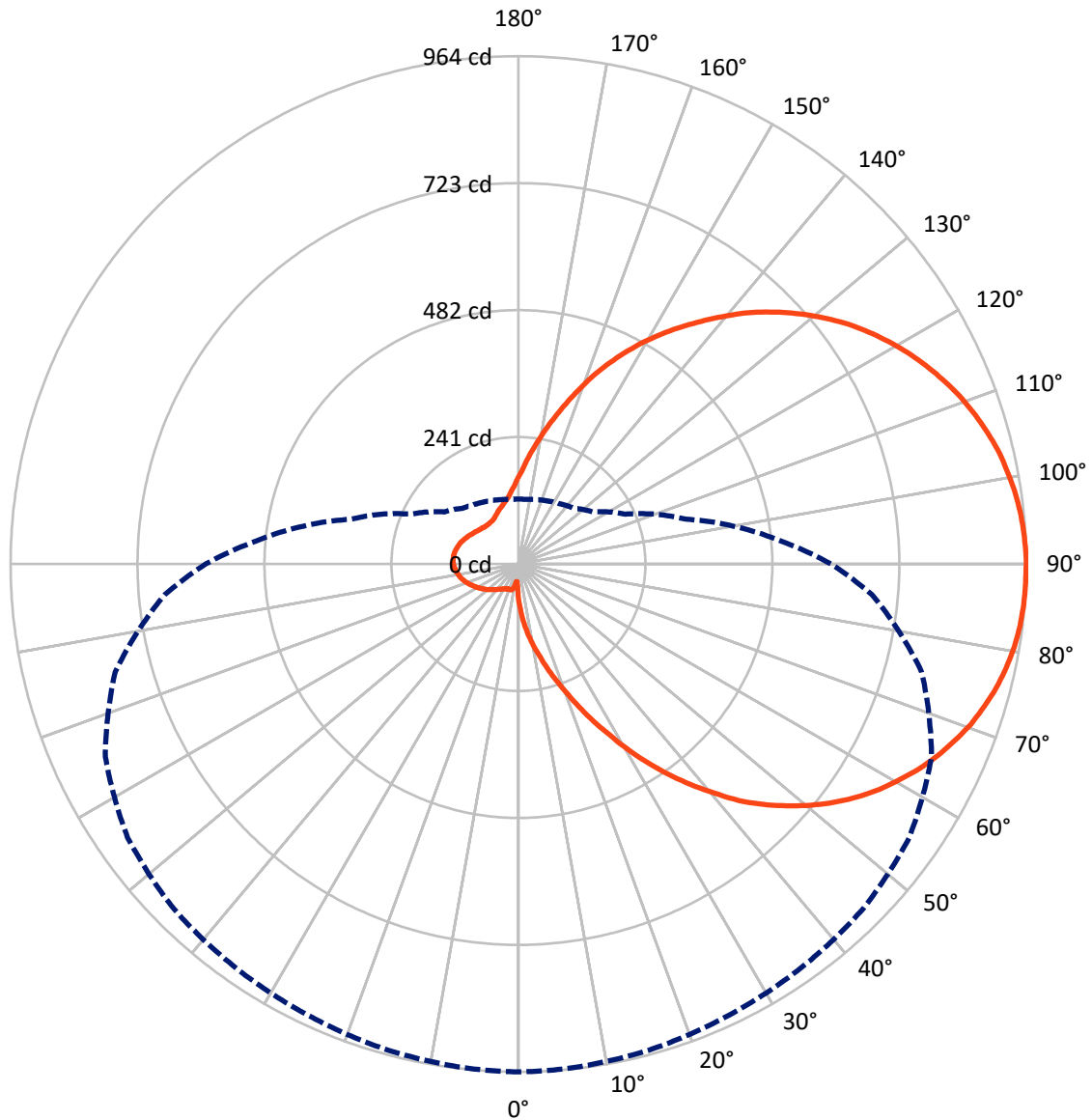


Based on 10 foot mounting height. Maximum calculated value = 2.7 fc
 Type - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 90-Deg Vertical



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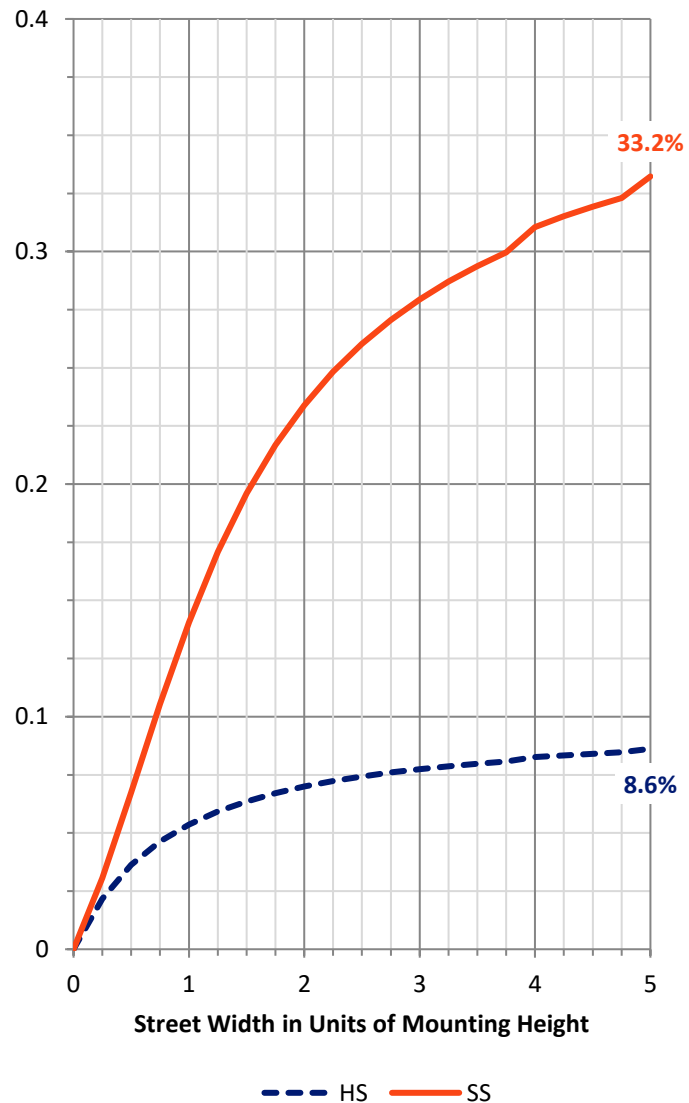
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	521.8	633.9	1155.7
	% Fixture	9.6	11.6	21.2
Street Side	Lumens	2116.5	2185.1	4301.6
	% Fixture	38.8	40.0	78.8
Total	Lumens	2638.4	2818.9	5457.3
	% Fixture	48.3	51.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.9	0.1
10°-20°	38.0	0.7
20°-30°	95.0	1.7
30°-40°	183.0	3.4
40°-50°	288.3	5.3
50°-60°	392.9	7.2
60°-70°	484.8	8.9
70°-80°	555.0	10.2
80°-90°	593.3	10.9
90°-100°	596.0	10.9
100°-110°	562.3	10.3
110°-120°	499.3	9.1
120°-130°	416.4	7.6
130°-140°	319.0	5.8
140°-150°	218.3	4.0
150°-160°	129.7	2.4
160°-170°	61.4	1.1
170°-180°	16.6	0.3
0°-90°	2638.4	48.3
0°-180°	5457.3	100.0

Coefficient of Utilization



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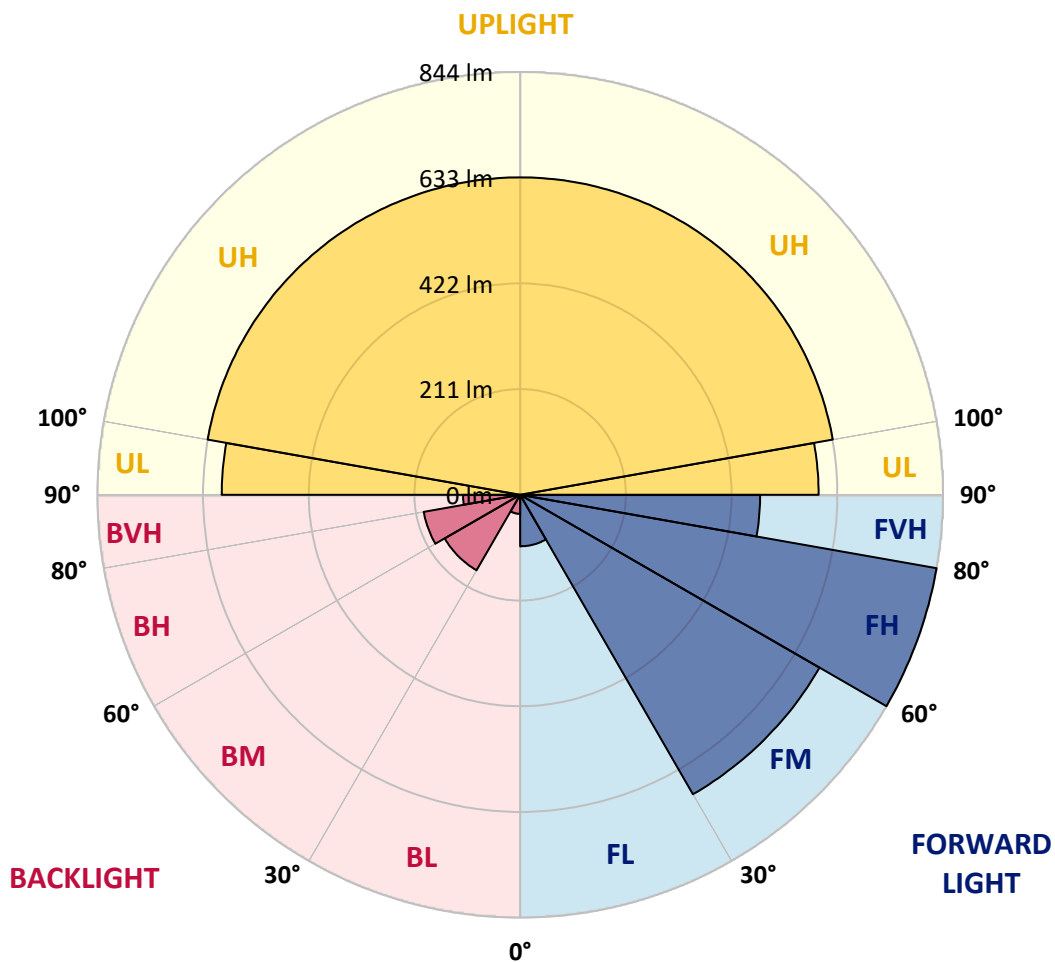
CATALOG NUMBER: ULA-A7-D-U-ASYM-VMx-7027-HSS-BK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	102.8	1.9			
FM (30°-60°)	690.3	12.6			
FH (60°-80°)	844.3	15.5			G1/1800
FVH (80°-90°)	479.1	8.8			G3/500
BL (0°-30°)	38.1	0.7	B0/110		
BM (30°-60°)	174.0	3.2	B0/220		
BH (60°-80°)	195.5	3.6	B1/500		G1/500
BVH (80°-90°)	114.2	2.1			G2/225
UL (90°-100°)	596.0	10.9		U4/1000	
UH (100°-180°)	633.9	11.6		U4/1000	

BUG Rating: B1-U5-G3

Type Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
2.5°	90.1	88.5	88.5	87.7	87.7	84.6	81.4	78.2	74.3	71.9	70.3
5°	113.8	111.4	110.6	108.3	105.9	100.4	96.4	90.1	84.6	77.4	74.3
7.5°	135.9	134.3	132.0	128.8	126.4	119.3	113.8	105.9	98.8	90.9	87.7
10°	158.1	156.5	154.1	150.9	146.2	140.7	134.3	124.9	116.2	106.7	101.9
12.5°	179.4	178.6	177.0	173.9	169.9	163.6	156.5	146.2	135.9	123.3	117.0
15°	205.5	203.9	202.3	199.1	195.2	188.1	180.2	169.9	156.5	142.2	135.1
17.5°	231.5	230.0	230.0	227.6	222.9	216.5	207.8	195.2	178.6	161.2	151.7
20°	260.8	259.2	259.2	256.8	252.1	245.8	236.3	222.9	204.7	181.8	170.7
22.5°	294.0	292.4	292.4	290.0	285.3	279.0	268.7	253.7	232.3	207.8	192.8
25°	330.3	328.0	328.0	325.6	320.8	314.5	304.3	286.9	262.4	234.7	217.3
27.5°	365.9	365.9	364.3	364.3	359.6	353.2	342.2	323.2	295.6	262.4	241.8
30°	407.8	407.8	405.4	404.6	399.1	393.6	380.9	360.4	330.3	290.8	266.3
32.5°	448.9	448.9	446.5	445.7	439.4	433.9	420.4	398.3	364.3	318.5	291.6
35°	490.8	489.2	487.6	486.8	481.3	474.2	460.7	435.4	397.5	346.1	316.1
37.5°	531.1	531.1	529.5	527.1	522.4	513.7	497.9	471.0	430.7	373.8	339.0
40°	571.4	572.2	570.6	568.2	560.3	553.2	536.6	507.4	463.1	399.9	361.9
42.5°	614.0	611.7	609.3	606.9	599.0	590.3	572.9	542.1	493.9	425.2	383.3
45°	651.2	649.6	647.2	644.1	637.0	625.9	608.5	574.5	523.2	448.1	403.8
47.5°	685.9	685.2	681.2	677.3	670.9	659.1	640.1	605.3	550.8	471.0	422.0
50°	719.9	719.9	716.0	709.7	702.5	693.1	670.9	634.6	576.9	492.3	440.2
52.5°	751.5	750.8	745.2	738.1	731.8	721.5	700.2	662.2	601.4	512.1	456.0
55°	780.8	780.0	773.7	766.6	759.4	749.2	727.0	687.5	625.1	531.1	471.8
57.5°	807.7	806.9	800.5	791.8	784.7	774.5	751.5	710.4	646.4	548.4	486.8
60°	831.4	830.6	824.2	814.8	807.7	797.4	775.2	732.6	667.0	565.0	500.2
62.5°	855.1	853.5	846.4	836.9	828.2	818.7	796.6	753.9	686.7	580.8	512.9
65°	875.6	874.0	866.1	855.9	848.0	837.7	815.6	772.9	704.1	595.9	525.5
67.5°	893.8	892.2	884.3	873.2	865.3	855.1	833.7	790.3	719.9	609.3	536.6
70°	911.2	908.8	900.9	889.0	881.1	870.9	849.5	806.1	735.7	621.9	547.7
72.5°	924.6	923.0	914.3	902.5	893.8	885.1	863.8	820.3	749.2	633.8	557.9
75°	937.3	935.7	927.0	914.3	906.4	897.0	876.4	832.9	760.2	644.1	566.6
77.5°	946.7	945.2	936.5	923.8	915.9	906.4	885.9	843.2	769.7	652.8	573.7
80°	954.6	952.3	943.6	931.7	923.0	913.5	893.8	851.1	778.4	659.9	580.8
82.5°	959.4	957.8	949.9	938.0	929.4	919.1	899.3	857.4	783.9	666.2	585.6
85°	962.5	961.0	953.1	942.0	932.5	923.0	903.3	861.4	788.7	670.1	589.5
87.5°	963.3	962.5	955.4	944.4	934.9	924.6	904.9	863.8	791.8	673.3	591.9
90°	964.1	962.5	955.4	945.2	935.7	925.4	905.6	865.3	792.6	674.1	593.5
92.5°	961.8	961.0	954.6	944.4	935.7	923.8	904.1	864.5	792.6	674.9	594.3
95°	958.6	957.0	952.3	942.0	932.5	921.4	900.9	862.2	791.1	674.1	593.5
97.5°	953.1	952.3	947.5	937.3	928.6	916.7	896.2	857.4	787.1	670.9	591.9
100°	945.2	944.4	939.6	930.1	920.7	909.6	889.0	850.3	780.8	666.2	588.0
102.5°	937.3	935.7	930.9	921.4	912.8	901.7	881.1	843.2	773.7	660.7	584.0
105°	925.4	923.8	919.9	911.2	901.7	890.6	870.1	832.9	763.4	653.5	577.7
107.5°	912.8	911.2	907.2	898.5	889.0	878.8	859.0	821.9	753.1	645.6	571.4
110°	898.5	895.4	892.2	883.5	874.8	865.3	845.6	809.2	742.8	636.2	564.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	881.9	880.4	876.4	868.5	859.0	850.3	830.6	795.0	728.6	625.9	557.1
115°	863.8	862.2	858.2	850.3	842.4	833.7	815.6	778.4	715.2	615.6	549.2
117.5°	844.8	843.2	838.5	831.4	824.2	816.3	797.4	762.6	700.2	603.8	540.5
120°	824.2	822.7	818.7	812.4	805.3	797.4	779.2	744.4	684.4	591.9	531.1
122.5°	802.1	801.3	797.4	790.3	783.9	777.6	760.2	726.3	667.8	578.5	521.6
125°	779.2	777.6	773.7	767.3	762.6	755.5	738.1	704.9	649.6	564.2	510.5
127.5°	753.9	753.1	749.2	743.6	738.9	732.6	715.2	683.6	629.8	549.2	498.7
130°	727.0	727.0	721.5	718.4	714.4	707.3	690.7	659.9	608.5	531.8	485.2
132.5°	699.4	698.6	695.4	690.7	687.5	680.4	664.6	634.6	585.6	514.5	471.0
135°	670.9	670.1	665.4	662.2	659.9	652.8	636.2	607.7	561.9	495.5	455.2
137.5°	640.9	640.9	636.2	633.8	630.6	622.7	606.9	579.3	536.6	474.9	437.8
140°	608.5	608.5	605.3	601.4	599.0	590.3	575.3	548.4	508.9	452.0	418.8
142.5°	576.9	576.9	573.7	569.8	566.6	557.9	542.9	517.6	481.3	429.9	399.9
145°	546.1	546.1	543.7	539.8	535.8	527.1	512.1	487.6	454.4	407.0	380.9
147.5°	515.3	515.3	512.9	508.9	505.0	496.3	481.3	458.4	427.5	385.6	361.2
150°	484.4	484.4	481.3	477.3	474.2	464.7	450.5	428.3	400.7	361.9	340.6
152.5°	452.8	452.8	449.7	446.5	441.8	433.1	418.8	399.9	373.0	339.0	320.1
155°	420.4	418.8	417.3	414.1	409.4	400.7	387.2	369.8	345.3	316.1	299.5
157.5°	388.8	387.2	384.9	382.5	377.7	369.8	357.2	340.6	319.3	294.0	279.8
160°	354.8	356.4	354.0	351.7	346.9	338.2	327.2	312.9	294.0	271.9	260.0
162.5°	323.2	324.0	322.4	320.1	316.1	307.4	297.9	285.3	268.7	249.7	239.5
165°	293.2	294.0	292.4	290.0	286.1	278.2	270.3	258.4	244.2	229.2	220.5
167.5°	266.3	267.9	264.7	262.4	259.2	252.1	245.0	235.5	222.9	211.0	203.9
170°	240.2	242.6	239.5	237.9	234.7	229.2	222.1	215.0	204.7	194.4	188.1
172.5°	217.3	218.9	216.5	215.0	211.8	207.0	202.3	196.0	188.1	180.2	176.2
175°	196.0	196.0	195.2	192.0	191.2	188.1	184.1	180.2	176.2	170.7	167.5
177.5°	176.2	176.2	176.2	175.4	174.6	173.1	171.5	169.1	166.7	164.4	162.8
180°	162.0	162.0	162.0	162.0	162.0	162.0	162.0	162.0	162.0	162.0	162.0



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
2.5°	68.8	64.0	60.1	56.1	52.2	49.8	45.8	45.0	44.3	43.5
5°	71.1	64.8	57.7	52.2	46.6	41.1	37.1	34.8	33.2	33.2
7.5°	83.0	75.9	67.2	59.3	52.9	46.6	41.9	37.9	35.6	34.8
10°	96.4	86.9	76.7	67.2	60.1	52.9	46.6	42.7	41.1	41.1
12.5°	111.4	99.6	86.9	75.1	66.4	57.7	51.4	48.2	46.6	46.6
15°	126.4	111.4	96.4	82.2	71.1	62.4	56.1	52.2	50.6	50.6
17.5°	142.2	124.1	105.1	88.5	75.9	65.6	58.5	53.7	51.4	51.4
20°	158.8	135.9	113.8	94.0	79.0	67.2	59.3	53.7	51.4	50.6
22.5°	177.8	149.4	123.3	100.4	83.0	69.5	60.1	54.5	51.4	51.4
25°	199.1	163.6	132.8	105.9	86.1	71.1	60.9	54.5	52.2	51.4
27.5°	221.3	178.6	142.2	112.2	89.3	73.5	62.4	56.1	52.9	52.9
30°	243.4	193.6	150.9	117.0	92.5	75.1	64.0	57.7	54.5	53.7
32.5°	264.7	208.6	158.8	121.7	95.6	77.4	65.6	59.3	56.1	56.1
35°	283.7	220.5	166.0	124.9	98.0	79.8	68.0	60.9	57.7	57.7
37.5°	303.5	232.3	171.5	128.0	99.6	81.4	69.5	63.2	60.1	60.1
40°	321.6	242.6	176.2	130.4	101.2	83.0	71.9	65.6	62.4	62.4
42.5°	339.0	252.1	180.2	132.8	103.5	85.3	74.3	68.0	65.6	65.6
45°	354.8	259.2	183.3	134.3	105.1	87.7	77.4	71.1	68.8	68.0
47.5°	369.1	266.3	185.7	135.9	106.7	89.3	79.8	74.3	71.1	71.1
50°	382.5	272.6	188.1	136.7	108.3	91.7	83.0	77.4	75.1	75.1
52.5°	395.1	278.2	189.7	138.3	109.8	94.0	85.3	80.6	78.2	78.2
55°	407.0	283.7	192.8	139.9	112.2	97.2	88.5	83.8	81.4	81.4
57.5°	418.1	288.4	195.2	141.5	113.8	100.4	92.5	87.7	85.3	85.3
60°	428.3	292.4	196.8	143.0	116.2	103.5	95.6	90.9	88.5	88.5
62.5°	438.6	297.1	198.4	145.4	119.3	106.7	99.6	94.8	92.5	92.5
65°	448.1	301.1	200.7	147.8	121.7	109.8	102.7	98.8	96.4	95.6
67.5°	456.0	304.3	203.1	150.2	124.9	113.0	106.7	102.7	99.6	99.6
70°	463.9	308.2	206.3	152.5	128.0	117.0	109.8	105.9	103.5	102.7
72.5°	471.8	312.2	208.6	154.9	131.2	120.1	113.8	109.1	106.7	106.7
75°	478.9	315.3	211.8	158.1	134.3	124.1	117.0	113.0	109.8	109.8
77.5°	484.4	318.5	214.2	160.4	137.5	126.4	120.1	116.2	113.0	113.0
80°	489.2	320.8	216.5	163.6	140.7	129.6	123.3	118.5	116.2	115.4
82.5°	493.9	323.2	218.1	166.0	143.0	132.8	125.7	121.7	118.5	117.7
85°	496.3	325.6	220.5	168.3	145.4	135.1	128.0	123.3	120.9	120.1
87.5°	498.7	327.2	222.1	169.9	147.8	136.7	130.4	125.7	122.5	121.7
90°	500.2	328.8	223.6	172.3	149.4	139.1	132.0	126.4	123.3	123.3
92.5°	501.0	329.5	225.2	173.1	150.9	139.9	132.8	127.2	124.1	124.1
95°	501.0	330.3	226.8	174.6	152.5	140.7	133.6	128.0	124.9	124.1
97.5°	500.2	331.1	227.6	176.2	153.3	140.7	133.6	128.0	124.9	124.1
100°	497.9	330.3	229.2	177.0	153.3	140.7	132.8	127.2	124.1	123.3
102.5°	495.5	331.1	230.8	178.6	154.1	140.7	132.0	126.4	123.3	122.5
105°	491.5	331.9	232.3	179.4	154.1	139.9	131.2	124.9	121.7	120.9
107.5°	487.6	331.9	233.9	180.2	154.1	139.1	129.6	123.3	120.1	119.3
110°	483.6	333.5	236.3	182.6	154.1	138.3	128.0	121.7	117.7	117.7



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CATALOG NUMBER: ULA-A7-D-U-ASYM-VMx-7027-HSS-BK

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	479.7	334.3	239.5	184.1	154.9	136.7	125.7	119.3	115.4	115.4
115°	474.9	335.9	242.6	185.7	154.9	135.9	124.1	117.0	113.0	113.0
117.5°	470.2	337.4	245.0	188.1	155.7	135.1	122.5	114.6	110.6	110.6
120°	464.7	339.0	248.1	190.5	156.5	134.3	120.9	112.2	109.1	108.3
122.5°	459.1	339.0	251.3	194.4	157.3	133.6	119.3	110.6	106.7	105.9
125°	452.0	339.0	253.7	196.0	158.1	133.6	117.7	108.3	104.3	103.5
127.5°	444.1	338.2	256.0	197.6	158.1	132.8	116.2	106.7	101.9	101.9
130°	434.6	335.9	256.8	199.1	158.8	132.0	115.4	105.1	100.4	99.6
132.5°	425.2	332.7	256.8	200.7	159.6	132.0	113.8	103.5	98.8	98.0
135°	411.7	327.2	255.3	200.7	159.6	132.0	113.0	102.7	97.2	97.2
137.5°	398.3	320.8	252.9	199.1	159.6	131.2	113.0	101.9	96.4	95.6
140°	383.3	312.2	248.9	198.4	158.8	131.2	112.2	101.2	95.6	94.8
142.5°	367.5	303.5	245.0	196.8	158.8	131.2	112.2	101.2	95.6	94.8
145°	351.7	294.0	240.2	194.4	157.3	131.2	112.2	101.2	95.6	94.8
147.5°	335.1	283.7	234.7	190.5	156.5	131.2	113.0	101.2	96.4	95.6
150°	317.7	271.1	227.6	186.5	154.9	130.4	113.0	101.9	97.2	96.4
152.5°	300.3	258.4	218.9	181.8	153.3	130.4	113.8	103.5	98.8	98.0
155°	281.3	245.8	211.0	177.8	151.7	131.2	116.2	105.9	101.9	101.2
157.5°	263.9	233.1	203.1	173.9	150.9	132.0	118.5	109.1	105.1	104.3
160°	246.6	220.5	194.4	169.9	149.4	132.8	120.1	112.2	108.3	108.3
162.5°	229.2	207.0	184.1	164.4	147.0	132.8	122.5	115.4	111.4	111.4
165°	211.8	192.8	175.4	158.8	144.6	133.6	124.1	118.5	115.4	114.6
167.5°	196.8	181.8	167.5	154.9	143.0	134.3	126.4	121.7	119.3	119.3
170°	182.6	172.3	161.2	151.7	143.0	135.9	129.6	126.4	124.1	124.1
172.5°	172.3	165.2	157.3	150.2	143.8	138.3	134.3	132.0	130.4	129.6
175°	165.2	160.4	154.9	150.9	147.0	143.0	140.7	139.9	139.1	139.1
177.5°	162.0	158.8	156.5	154.1	152.5	150.9	150.2	149.4	149.4	148.6
180°	162.0	162.0	162.0	162.0	162.0	162.0	162.0	162.0	162.0	162.0

(END OF REPORT)