

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: P256773

Luminaire Tested: **ULA-A4-D-U-ASYM-VMx-7027-BK**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P256773  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1804-729-11)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ULA-A4-D-U-ASYM-VMx-7027-BK  
Description: UTILITY LIGHT ACORN TYPE IV ASYMMETRIC  
Light Source: (60) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3547.6 lumens  
Efficiency: N/A  
Efficacy: 119.4 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): 29.7  
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

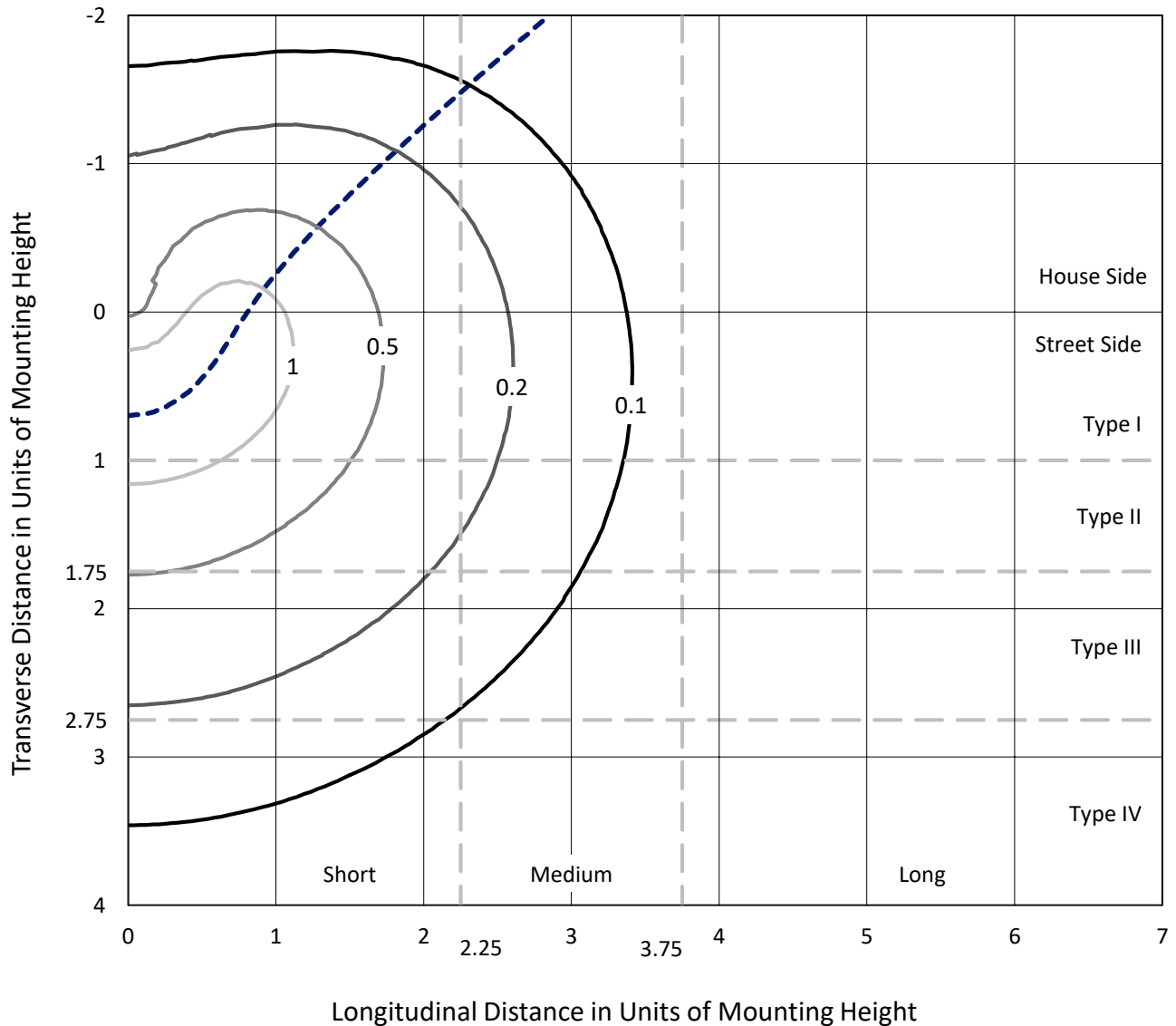


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

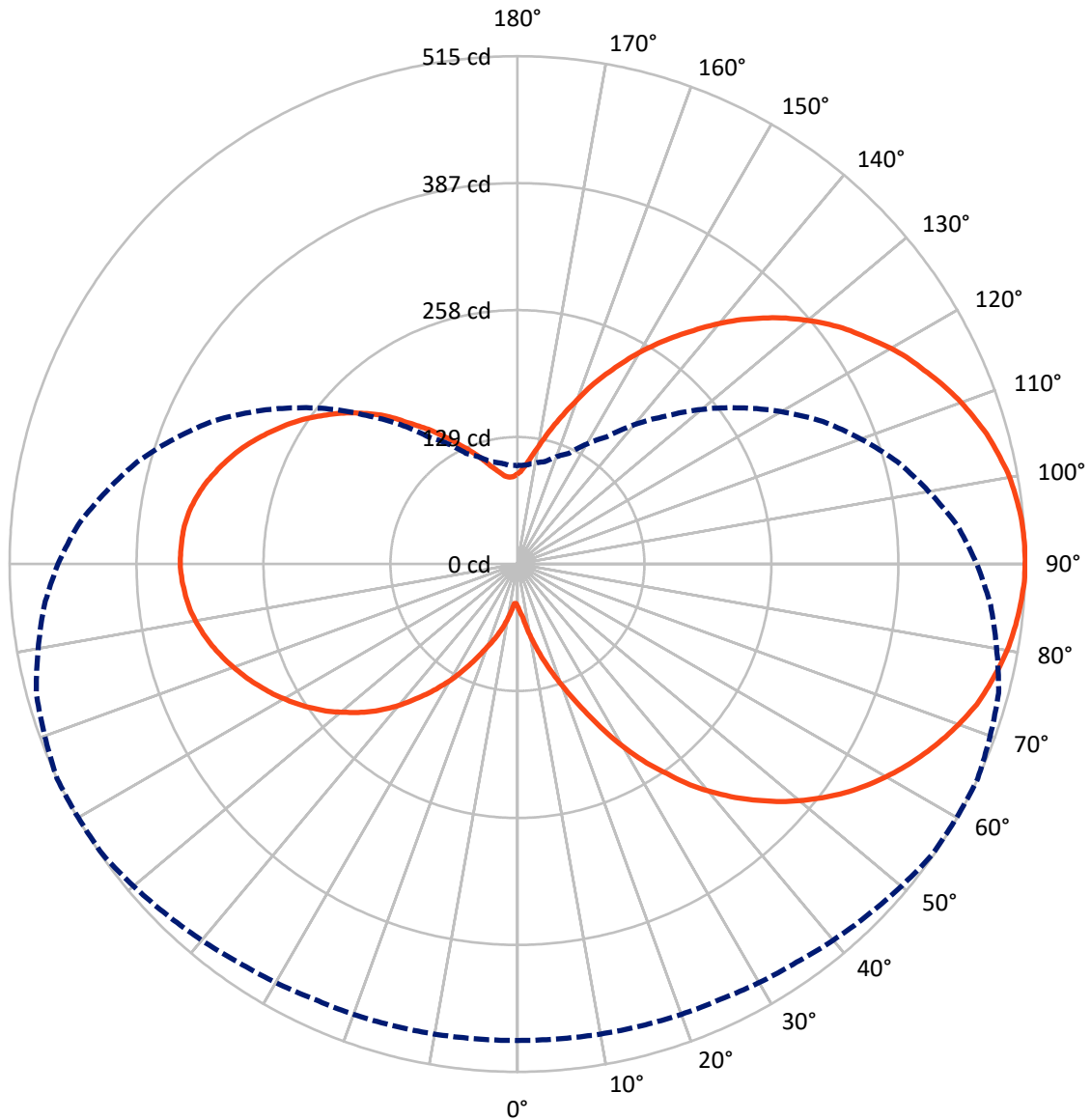


Based on 10 foot mounting height. Maximum calculated value = 1.5 fc  
 Type - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 90-Deg Vertical

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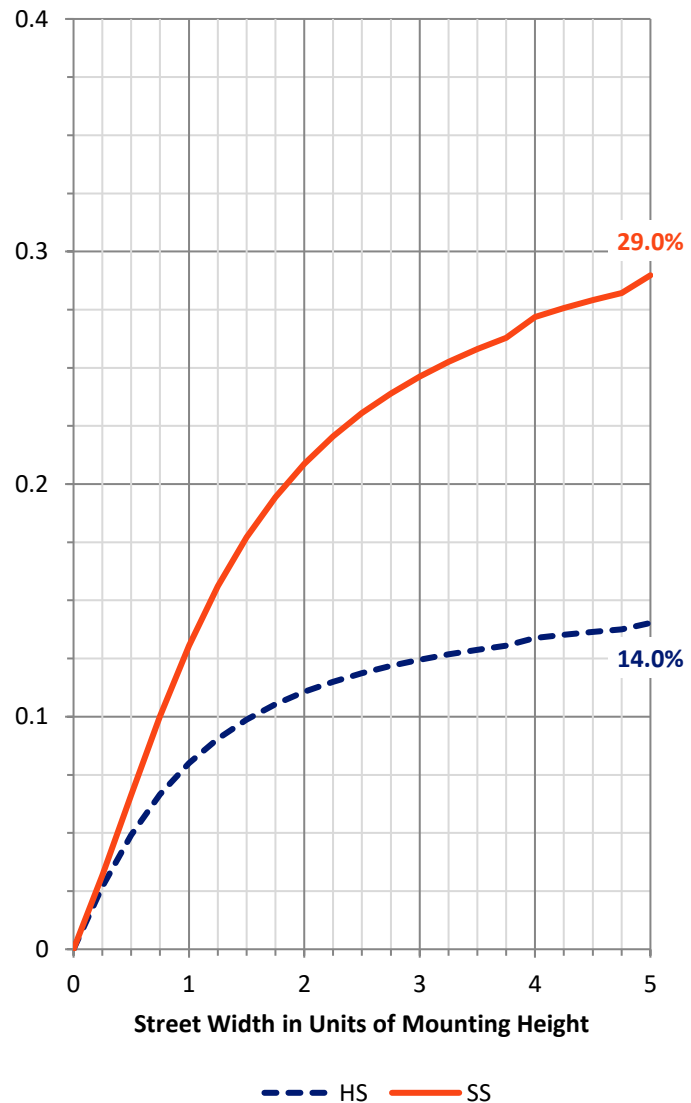
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	556.5	584.5	1141.0
	% Fixture	15.7	16.5	32.2
<b>Street Side</b>	Lumens	1189.8	1216.8	2406.6
	% Fixture	33.5	34.3	67.8
<b>Total</b>	Lumens	1746.3	1801.3	3547.6
	% Fixture	49.2	50.8	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5.0	0.1
10°-20°	24.2	0.7
20°-30°	60.9	1.7
30°-40°	118.7	3.3
40°-50°	188.2	5.3
50°-60°	258.3	7.3
60°-70°	321.2	9.1
70°-80°	370.9	10.5
80°-90°	398.9	11.2
90°-100°	400.4	11.3
100°-110°	373.5	10.5
110°-120°	324.1	9.1
120°-130°	262.1	7.4
130°-140°	194.3	5.5
140°-150°	128.6	3.6
150°-160°	74.4	2.1
160°-170°	34.6	1.0
170°-180°	9.3	0.3
0°-90°	1746.3	49.2
0°-180°	3547.6	100.0



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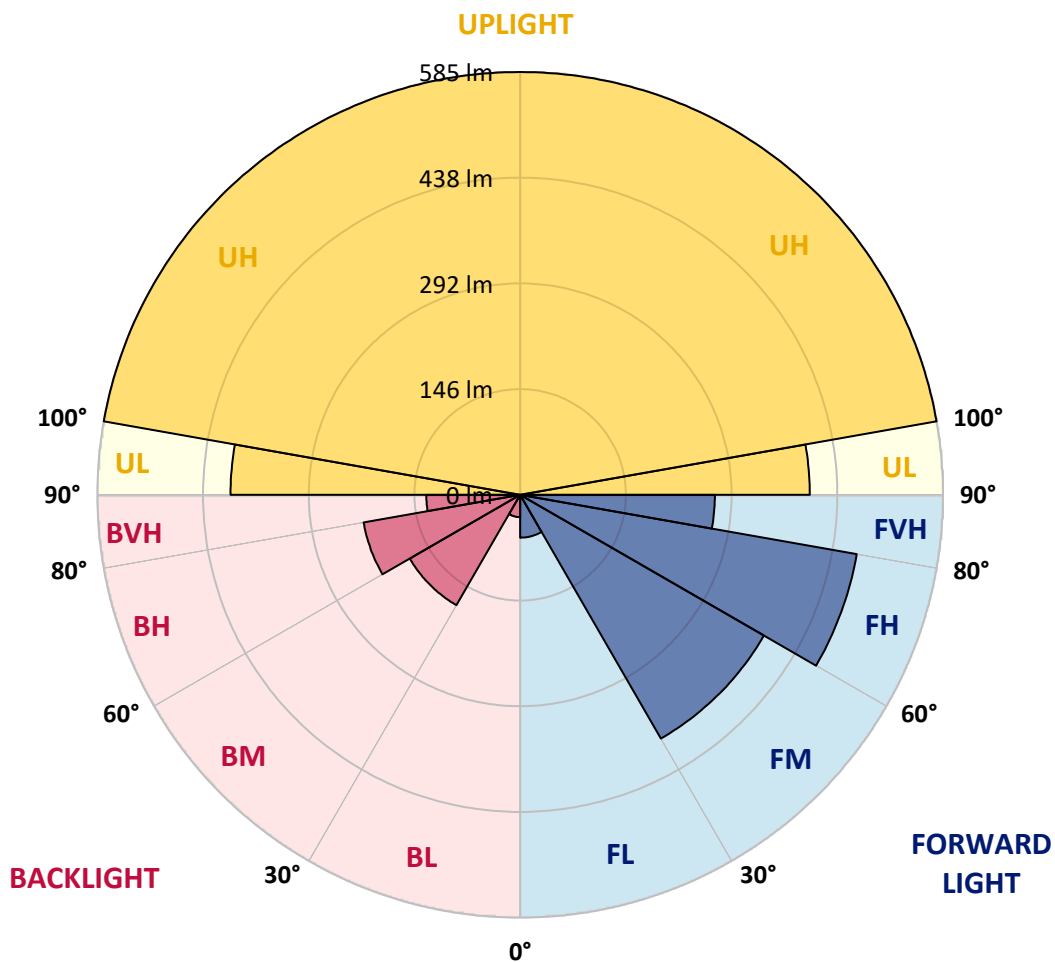
CATALOG NUMBER: ULA-A4-D-U-ASYM-VMx-7027-BK

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	59.2	1.7			
FM (30°-60°)	389.1	11.0			
FH (60°-80°)	472.4	13.3			G0/660
FVH (80°-90°)	269.1	7.6			G3/500
BL (0°-30°)	30.8	0.9	B0/110		
BM (30°-60°)	176.1	5.0	B0/220		
BH (60°-80°)	219.8	6.2	B1/500		G1/500
BVH (80°-90°)	129.8	3.7			G2/225
UL (90°-100°)	400.4	11.3		U3/500	
UH (100°-180°)	584.5	16.5		U4/1000	

**BUG Rating: B1-U5-G3**

Type Short





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CATALOG NUMBER: ULA-A4-D-U-ASYM-VMx-7027-BK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
2.5°	53.0	51.5	51.5	50.7	50.7	50.0	49.2	48.4	46.9	45.4	44.7
5°	63.6	62.8	62.8	61.3	59.8	58.3	56.0	53.7	51.5	48.4	47.7
7.5°	75.7	74.9	74.9	72.7	71.1	68.9	66.6	63.6	60.6	57.5	56.0
10°	87.8	87.0	87.0	85.5	84.0	81.0	78.0	75.7	71.1	67.4	65.8
12.5°	100.7	99.2	99.2	97.6	96.9	94.6	91.6	88.6	83.3	78.7	76.4
15°	112.8	112.0	112.0	111.3	110.5	108.2	105.2	102.2	96.9	91.6	88.6
17.5°	126.4	125.6	124.9	124.9	124.9	122.6	120.3	117.3	111.3	104.4	101.4
20°	141.5	140.0	140.0	140.8	140.8	139.3	137.0	133.2	127.2	119.6	115.0
22.5°	157.4	156.7	157.4	157.4	158.2	157.4	155.2	151.4	145.3	136.2	130.9
25°	174.8	174.1	175.6	176.4	177.9	178.6	176.4	171.8	165.0	154.4	148.3
27.5°	196.0	195.3	196.0	199.1	199.8	200.6	199.1	195.3	186.9	174.8	167.3
30°	215.0	215.0	216.5	218.7	221.0	222.5	221.0	218.0	208.9	195.3	186.9
32.5°	234.6	235.4	236.1	239.2	242.2	244.5	243.0	240.7	230.1	217.2	206.6
35°	255.8	256.6	256.6	260.4	264.2	265.7	266.4	261.1	252.8	236.9	225.5
37.5°	277.0	276.3	277.0	280.8	284.6	286.9	287.6	284.6	274.0	256.6	245.2
40°	295.2	295.2	296.7	300.5	304.3	307.3	308.0	304.3	294.4	275.5	263.4
42.5°	314.1	314.1	315.6	318.6	323.2	326.2	327.7	323.9	312.6	294.4	280.8
45°	331.5	331.5	333.0	336.8	341.4	344.4	346.6	342.1	330.8	311.8	299.0
47.5°	348.2	348.9	349.7	352.7	358.0	361.0	364.1	360.3	348.2	327.0	314.1
50°	364.1	364.8	365.6	369.4	373.1	376.9	380.7	376.9	365.6	343.6	329.2
52.5°	378.4	379.2	380.7	382.2	387.5	392.1	395.8	392.8	380.0	358.0	342.9
55°	393.6	393.6	394.3	395.8	401.1	406.4	411.0	408.0	395.1	372.4	357.2
57.5°	406.4	406.4	407.2	408.7	413.3	418.6	423.9	421.6	408.7	385.3	370.1
60°	417.8	417.8	418.6	420.1	424.6	431.4	436.7	434.4	421.6	397.4	382.2
62.5°	429.1	429.1	429.9	431.4	436.0	442.8	448.8	446.6	433.7	409.5	393.6
65°	439.0	439.0	439.0	440.5	445.8	453.4	459.4	457.9	444.3	420.8	404.2
67.5°	448.1	448.1	448.1	448.8	454.9	462.5	470.0	468.5	455.6	431.4	414.0
70°	457.2	455.6	457.2	457.2	463.2	471.5	479.1	478.3	465.5	441.3	423.9
72.5°	464.0	463.2	464.0	465.5	470.8	479.1	487.4	487.4	474.6	449.6	432.9
75°	469.3	469.3	469.3	470.8	476.8	485.9	494.2	494.2	482.1	457.2	440.5
77.5°	474.6	474.6	475.3	476.1	482.1	491.2	501.1	500.3	488.9	464.0	448.1
80°	478.3	477.6	478.3	480.6	485.9	495.8	505.6	505.6	494.2	470.0	453.4
82.5°	481.4	480.6	481.4	483.6	488.9	499.5	509.4	509.4	498.8	475.3	458.7
85°	482.9	482.9	483.6	485.9	491.2	501.8	511.6	512.4	502.6	479.1	462.5
87.5°	483.6	483.6	484.4	487.4	492.7	502.6	513.2	514.7	504.8	480.6	464.7
90°	483.6	483.6	485.2	487.4	493.5	503.3	513.9	515.4	505.6	482.1	466.2
92.5°	483.6	482.9	485.2	487.4	492.7	502.6	513.2	514.7	505.6	482.1	466.2
95°	482.1	481.4	483.6	485.9	491.2	501.1	510.9	513.2	504.1	481.4	464.7
97.5°	479.1	479.1	480.6	483.6	488.9	498.0	508.6	510.1	501.1	478.3	462.5
100°	476.1	476.1	477.6	479.9	485.2	495.0	504.1	506.4	495.8	474.6	457.9
102.5°	472.3	472.3	473.0	475.3	481.4	490.5	498.8	500.3	491.2	468.5	452.6
105°	467.0	466.2	467.8	470.0	475.3	484.4	492.7	494.2	483.6	461.7	445.8
107.5°	460.2	460.2	460.2	463.2	468.5	477.6	485.2	485.9	475.3	453.4	436.7
110°	453.4	453.4	453.4	455.6	461.7	470.0	477.6	477.6	466.2	444.3	429.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	445.8	445.0	445.0	447.3	453.4	461.7	469.3	467.8	456.4	434.4	419.3
115°	436.7	436.7	436.0	438.2	445.0	452.6	459.4	457.2	446.6	423.9	408.7
117.5°	427.6	426.9	426.9	429.1	435.2	443.5	449.6	447.3	435.2	413.3	398.1
120°	417.8	417.0	416.3	418.6	425.4	432.9	438.2	435.2	422.3	401.1	386.8
122.5°	406.4	405.7	405.7	408.0	414.8	422.3	426.9	422.3	411.0	389.0	374.7
125°	394.3	395.1	394.3	396.6	402.7	411.0	414.8	410.2	398.1	376.2	361.8
127.5°	382.2	382.2	381.5	384.5	390.5	398.1	401.9	396.6	384.5	362.5	348.9
130°	369.4	369.4	368.6	371.6	377.7	384.5	386.8	381.5	369.4	348.2	334.5
132.5°	355.0	355.7	355.7	358.8	364.1	369.4	372.4	366.3	354.2	333.8	320.2
135°	341.4	340.6	341.4	343.6	349.7	354.2	355.0	349.7	338.3	317.9	305.0
137.5°	325.5	326.2	326.2	328.5	333.8	338.3	339.1	333.0	321.7	302.0	289.1
140°	310.3	310.3	311.8	313.3	317.1	320.9	320.9	314.9	304.3	284.6	272.5
142.5°	294.4	294.4	295.2	298.2	301.2	303.5	302.8	296.7	286.1	267.2	256.6
145°	279.3	279.3	280.0	282.3	284.6	286.1	284.6	279.3	268.7	249.8	239.9
147.5°	264.9	264.2	265.7	267.2	268.7	269.4	267.9	261.9	250.5	234.6	224.0
150°	249.8	249.8	249.8	252.0	252.8	252.8	250.5	244.5	233.9	218.0	208.9
152.5°	234.6	233.9	234.6	235.4	236.1	235.4	232.4	226.3	216.5	202.1	193.8
155°	218.7	218.7	219.5	219.5	219.5	218.7	215.7	208.9	199.8	186.9	177.1
157.5°	203.6	203.6	203.6	203.6	203.6	202.1	198.3	192.2	181.7	170.3	164.2
160°	188.5	188.5	187.7	186.9	186.2	183.2	180.1	174.1	166.5	156.7	151.4
162.5°	171.8	171.1	171.1	170.3	169.5	167.3	163.5	158.2	151.4	143.0	138.5
165°	156.7	155.9	155.2	155.2	153.6	151.4	148.3	143.8	137.8	130.2	126.4
167.5°	143.0	142.3	141.5	141.5	140.0	137.0	134.0	130.2	124.9	118.8	115.8
170°	130.9	130.2	129.4	128.7	127.2	124.9	121.9	118.1	114.3	109.7	106.7
172.5°	118.8	118.1	117.3	117.3	115.8	113.5	111.3	108.2	105.2	101.4	99.9
175°	107.5	108.2	107.5	106.7	106.0	103.7	102.2	99.9	98.4	96.1	94.6
177.5°	98.4	99.2	99.2	98.4	97.6	96.1	95.4	93.9	93.1	91.6	90.8
180°	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8





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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
2.5°	43.9	41.6	40.1	37.8	35.6	34.1	32.5	31.0	30.3	30.3
5°	45.4	43.1	40.1	37.1	34.8	31.8	30.3	28.8	28.0	28.0
7.5°	53.7	50.7	46.9	43.1	40.1	36.3	34.1	32.5	31.8	31.8
10°	62.8	59.0	54.5	50.0	46.2	42.4	39.4	37.1	36.3	36.3
12.5°	73.4	68.1	62.8	56.8	52.2	46.9	43.9	41.6	40.9	40.1
15°	84.8	78.0	71.1	63.6	57.5	52.2	47.7	44.7	43.9	43.9
17.5°	96.9	87.8	79.5	70.4	62.8	55.3	50.7	46.9	45.4	45.4
20°	109.7	99.2	87.8	77.2	67.4	59.0	52.2	48.4	46.2	46.2
22.5°	124.9	112.0	97.6	84.8	73.4	62.8	54.5	49.2	46.9	46.2
25°	140.8	124.9	109.0	93.9	79.5	66.6	57.5	51.5	47.7	47.7
27.5°	158.2	140.0	121.1	102.9	85.5	71.1	59.8	53.0	49.2	48.4
30°	177.1	155.9	134.0	112.0	92.3	75.7	62.8	54.5	50.7	50.0
32.5°	195.3	171.1	146.1	121.9	99.2	79.5	65.8	56.8	52.2	51.5
35°	215.0	187.7	158.9	131.7	106.0	84.0	68.1	58.3	53.7	53.0
37.5°	233.1	203.6	171.1	140.8	112.8	88.6	71.1	60.6	55.3	54.5
40°	250.5	219.5	184.7	150.6	119.6	93.1	74.2	62.8	56.8	56.0
42.5°	267.2	234.6	197.5	159.7	125.6	97.6	77.2	65.1	59.0	58.3
45°	283.8	248.3	209.7	168.8	132.5	101.4	80.2	66.6	61.3	59.8
47.5°	299.0	261.9	221.0	177.9	138.5	106.0	82.5	68.9	62.8	62.1
50°	313.3	275.5	231.6	186.9	144.6	109.7	85.5	71.1	65.1	64.3
52.5°	327.0	287.6	243.0	196.0	149.9	113.5	88.6	73.4	67.4	66.6
55°	339.8	299.7	252.8	203.6	155.9	117.3	90.8	76.4	69.6	68.9
57.5°	353.5	311.1	262.6	211.9	161.2	121.1	93.9	78.7	71.9	71.1
60°	364.1	321.7	271.7	218.7	166.5	124.9	96.9	81.0	74.2	73.4
62.5°	376.2	331.5	280.8	226.3	171.8	128.7	99.9	84.0	77.2	76.4
65°	386.0	341.4	289.1	233.1	176.4	131.7	102.2	86.3	79.5	78.7
67.5°	396.6	351.2	297.5	239.9	181.7	135.5	105.2	89.3	82.5	81.7
70°	405.7	359.5	305.0	246.0	186.9	139.3	108.2	91.6	85.5	84.0
72.5°	414.0	368.6	312.6	252.0	193.0	142.3	111.3	94.6	87.8	87.0
75°	421.6	375.4	319.4	257.3	196.8	145.3	113.5	96.9	90.8	89.3
77.5°	429.1	382.2	325.5	262.6	200.6	149.1	116.6	99.9	93.1	92.3
80°	435.2	387.5	330.8	266.4	203.6	151.4	118.8	102.2	95.4	94.6
82.5°	439.7	392.1	335.3	270.2	206.6	153.6	120.3	103.7	96.9	96.1
85°	443.5	395.8	338.3	273.2	209.7	155.2	122.6	105.2	98.4	97.6
87.5°	446.6	398.1	340.6	275.5	210.4	156.7	123.4	106.7	99.9	99.2
90°	448.1	399.6	342.1	276.3	211.9	157.4	124.1	107.5	100.7	99.9
92.5°	447.3	399.6	342.1	277.0	212.7	158.2	124.9	107.5	100.7	99.9
95°	446.6	398.9	341.4	276.3	211.9	158.2	124.9	107.5	100.7	99.9
97.5°	443.5	396.6	339.8	274.7	211.2	157.4	123.4	106.7	99.9	99.2
100°	439.7	392.1	336.8	272.5	209.7	155.9	122.6	105.2	98.4	97.6
102.5°	433.7	387.5	332.3	269.4	206.6	153.6	120.3	103.7	96.9	96.1
105°	426.9	381.5	327.0	264.9	203.6	151.4	118.1	101.4	94.6	93.9
107.5°	420.1	373.1	320.2	259.6	199.8	148.3	115.8	99.2	92.3	91.6
110°	411.0	365.6	313.3	254.3	195.3	144.6	112.8	96.1	90.1	88.6



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CATALOG NUMBER: ULA-A4-D-U-ASYM-VMx-7027-BK

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	401.1	357.2	305.8	247.5	190.7	141.5	110.5	93.9	87.0	86.3
115°	391.3	347.4	297.5	241.4	183.9	137.8	107.5	91.6	84.8	84.0
117.5°	380.7	337.6	288.4	233.9	178.6	134.0	104.4	88.6	81.7	81.0
120°	369.4	327.7	279.3	226.3	173.3	130.2	101.4	86.3	79.5	78.7
122.5°	358.0	317.1	270.2	219.5	168.0	126.4	99.2	83.3	77.2	75.7
125°	345.9	305.8	260.4	211.2	162.7	123.4	96.1	81.0	74.9	74.2
127.5°	333.0	293.7	249.8	202.8	156.7	119.6	93.9	79.5	72.7	71.9
130°	319.4	282.3	239.9	195.3	151.4	115.8	91.6	77.2	70.4	69.6
132.5°	305.0	269.4	229.3	185.4	145.3	112.0	88.6	74.9	68.9	68.1
135°	289.9	256.6	218.0	176.4	139.3	108.2	86.3	73.4	67.4	66.6
137.5°	275.5	243.0	207.4	168.0	134.0	105.2	84.8	71.9	66.6	65.8
140°	258.9	228.6	195.3	159.7	127.9	101.4	82.5	70.4	65.1	64.3
142.5°	243.0	215.0	182.4	151.4	122.6	98.4	81.0	69.6	64.3	63.6
145°	227.8	201.3	171.8	143.8	117.3	95.4	78.7	68.9	64.3	63.6
147.5°	213.4	189.2	162.0	136.2	112.0	92.3	77.2	68.1	63.6	62.8
150°	199.1	174.8	151.4	128.7	107.5	89.3	76.4	67.4	63.6	62.8
152.5°	182.4	162.7	142.3	121.9	102.9	87.0	74.9	67.4	63.6	63.6
155°	169.5	151.4	133.2	115.0	99.2	85.5	74.9	68.1	64.3	64.3
157.5°	156.7	141.5	125.6	109.7	96.1	84.0	74.9	68.9	65.8	65.8
160°	144.6	131.7	118.1	105.2	93.1	83.3	74.9	69.6	67.4	66.6
162.5°	133.2	121.9	110.5	99.9	90.1	81.7	74.9	70.4	68.1	68.1
165°	121.9	112.8	103.7	95.4	87.8	80.2	74.9	71.9	69.6	69.6
167.5°	112.0	105.2	98.4	91.6	85.5	80.2	75.7	72.7	71.9	71.1
170°	104.4	99.2	93.9	88.6	84.0	79.5	76.4	74.9	73.4	73.4
172.5°	97.6	93.9	90.1	86.3	83.3	80.2	78.7	77.2	76.4	76.4
175°	93.1	90.8	88.6	86.3	84.8	82.5	81.7	81.0	80.2	80.2
177.5°	90.8	89.3	88.6	87.8	87.0	86.3	86.3	85.5	85.5	85.5
180°	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8

(END OF REPORT)