

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: P256777

Luminaire Tested: **ULA-A5-D-U-ASYM-VMx-7030-BK**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P256777  
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-A5-D-U-ASYM-VMx-7030-BK  
Description: UTILITY LIGHT ACORN TYPE IV ASYMMETRIC  
Light Source: (60) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4527.4 lumens  
Efficiency: N/A  
Efficacy: 123.4 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): 36.7  
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

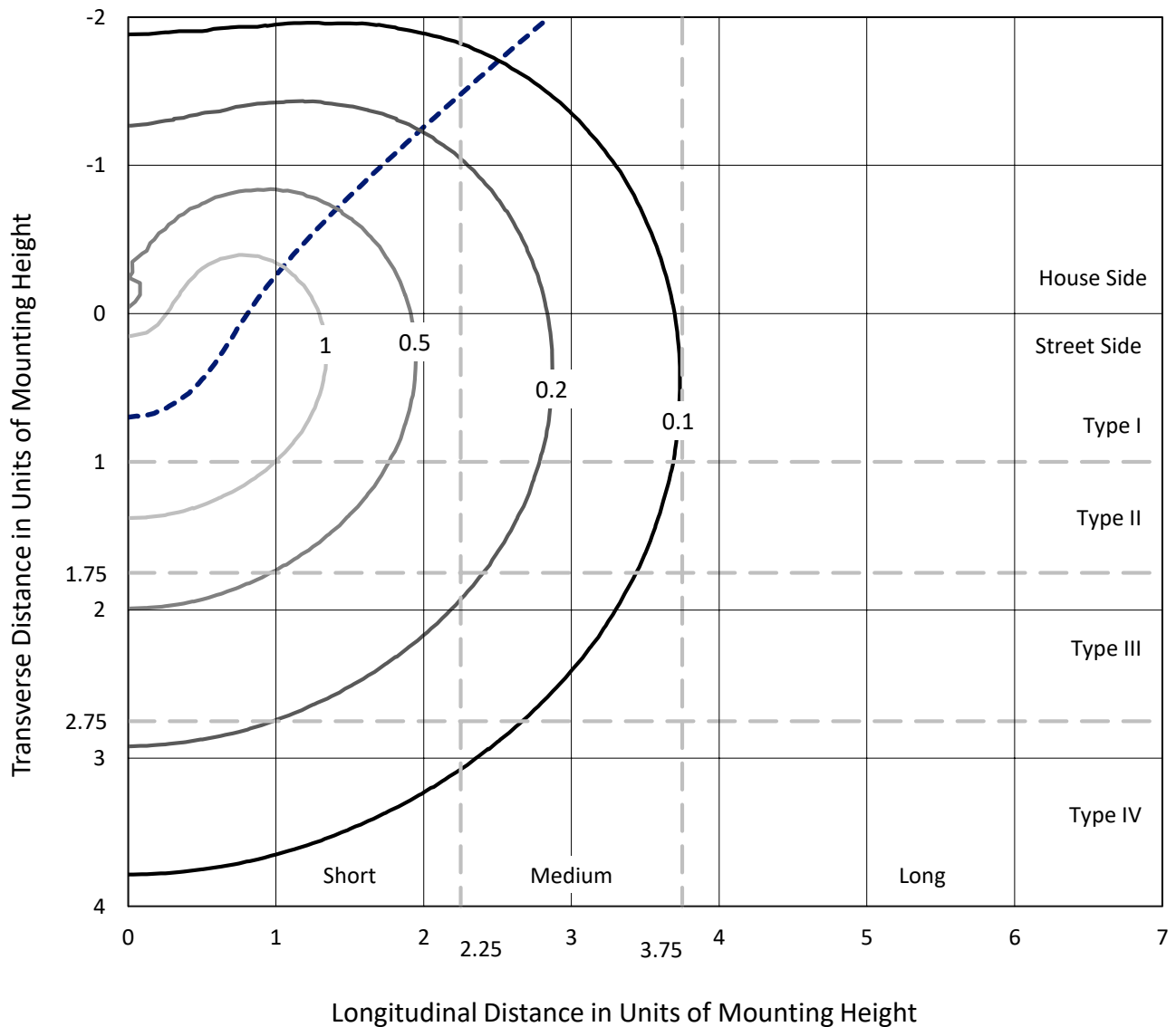


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

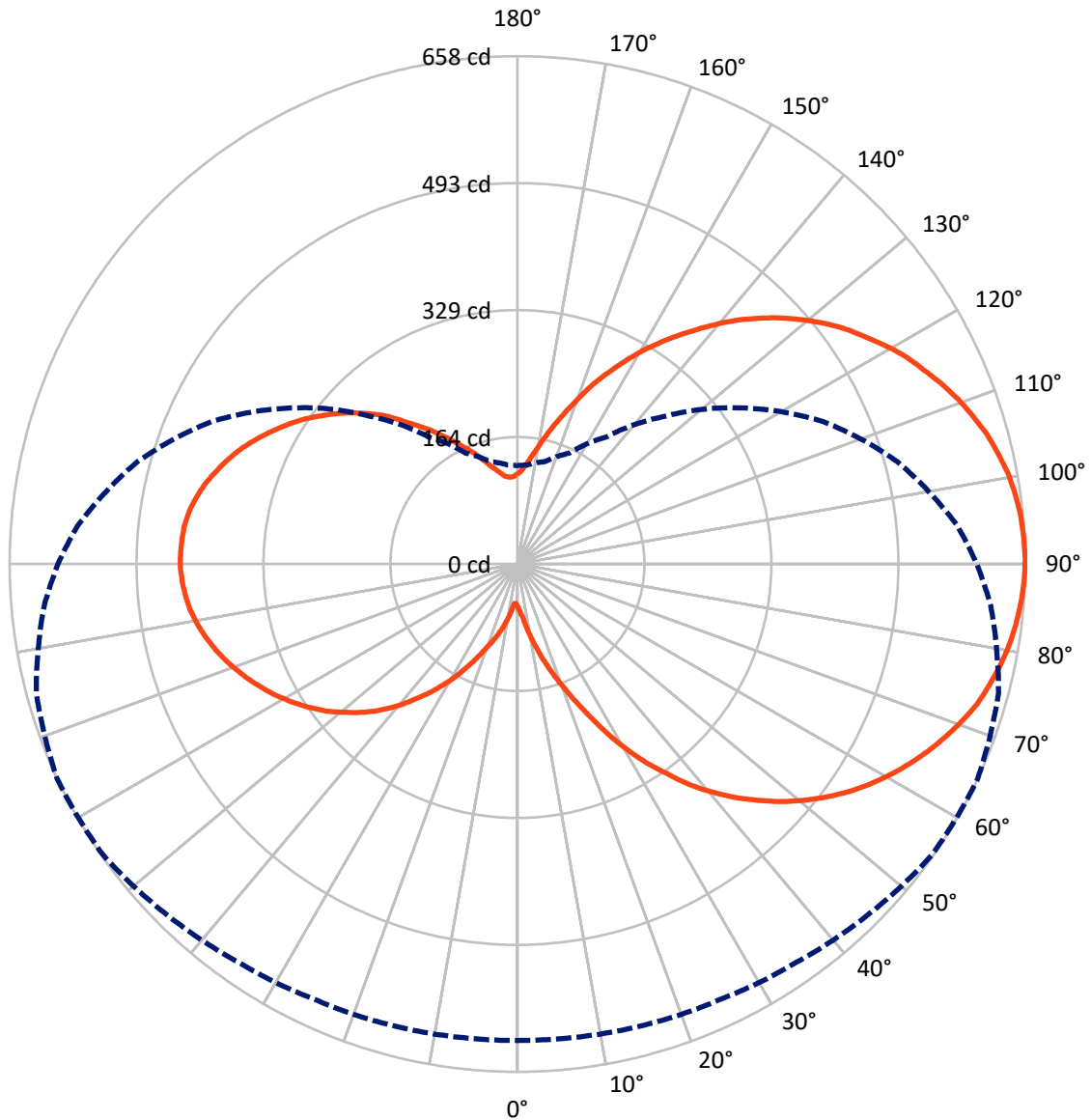


Based on 10 foot mounting height. Maximum calculated value = 1.9 fc  
 Type - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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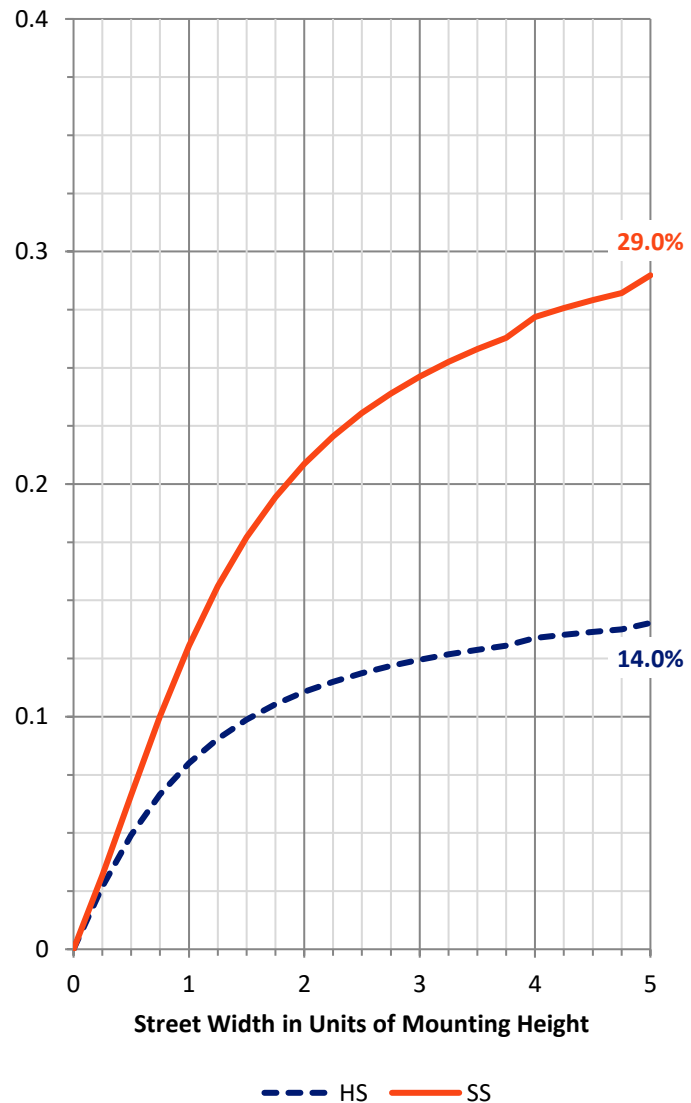
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	710.2	745.9	1456.1
	% Fixture	15.7	16.5	32.2
<b>Street Side</b>	Lumens	1518.4	1552.9	3071.3
	% Fixture	33.5	34.3	67.8
<b>Total</b>	Lumens	2228.6	2298.8	4527.4
	% Fixture	49.2	50.8	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6.4	0.1
10°-20°	30.8	0.7
20°-30°	77.7	1.7
30°-40°	151.4	3.3
40°-50°	240.2	5.3
50°-60°	329.6	7.3
60°-70°	410.0	9.1
70°-80°	473.4	10.5
80°-90°	509.1	11.2
90°-100°	511.0	11.3
100°-110°	476.7	10.5
110°-120°	413.6	9.1
120°-130°	334.5	7.4
130°-140°	247.9	5.5
140°-150°	164.1	3.6
150°-160°	95.0	2.1
160°-170°	44.1	1.0
170°-180°	11.9	0.3
0°-90°	2228.6	49.2
0°-180°	4527.4	100.0



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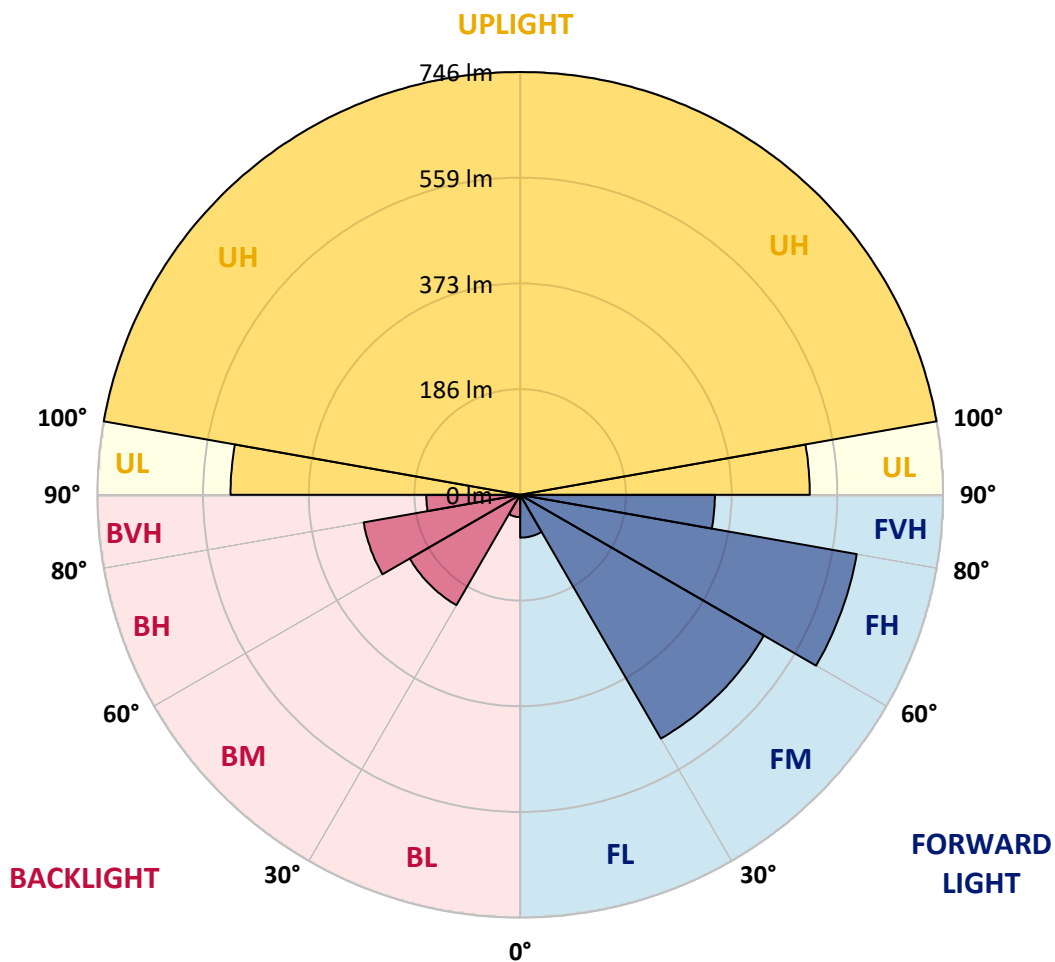
CATALOG NUMBER: ULA-A5-D-U-ASYM-VMx-7030-BK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	75.6	1.7			
FM (30°-60°)	496.5	11.0			
FH (60°-80°)	602.9	13.3			G0/660
FVH (80°-90°)	343.4	7.6			G3/500
BL (0°-30°)	39.3	0.9	B0/110		
BM (30°-60°)	224.7	5.0	B1/1000		
BH (60°-80°)	280.5	6.2	B1/500		G1/500
BVH (80°-90°)	165.7	3.7			G2/225
UL (90°-100°)	511.0	11.3		U4/1000	
UH (100°-180°)	745.9	16.5		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°	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1
2.5°	67.6	65.7	65.7	64.7	64.7	63.8	62.8	61.8	59.9	58.0	57.0
5°	81.1	80.2	80.2	78.2	76.3	74.4	71.5	68.6	65.7	61.8	60.9
7.5°	96.6	95.6	95.6	92.7	90.8	87.9	85.0	81.1	77.3	73.4	71.5
10°	112.0	111.1	111.1	109.1	107.2	103.4	99.5	96.6	90.8	86.0	84.0
12.5°	128.5	126.5	126.5	124.6	123.6	120.7	116.9	113.0	106.3	100.5	97.6
15°	143.9	143.0	143.0	142.0	141.0	138.1	134.3	130.4	123.6	116.9	113.0
17.5°	161.3	160.3	159.4	159.4	159.4	156.5	153.6	149.7	142.0	133.3	129.4
20°	180.6	178.7	178.7	179.7	179.7	177.7	174.8	170.0	162.3	152.6	146.8
22.5°	200.9	199.9	200.9	200.9	201.9	200.9	198.0	193.2	185.5	173.9	167.1
25°	223.1	222.2	224.1	225.1	227.0	228.0	225.1	219.3	210.6	197.0	189.3
27.5°	250.2	249.2	250.2	254.0	255.0	256.0	254.0	249.2	238.6	223.1	213.5
30°	274.3	274.3	276.3	279.2	282.0	284.0	282.0	278.2	266.6	249.2	238.6
32.5°	299.4	300.4	301.4	305.2	309.1	312.0	310.1	307.2	293.6	277.2	263.7
35°	326.5	327.4	327.4	332.3	337.1	339.0	340.0	333.2	322.6	302.3	287.8
37.5°	353.5	352.6	353.5	358.4	363.2	366.1	367.0	363.2	349.7	327.4	313.0
40°	376.7	376.7	378.6	383.5	388.3	392.2	393.1	388.3	375.7	351.6	336.1
42.5°	400.9	400.9	402.8	406.7	412.4	416.3	418.2	413.4	398.9	375.7	358.4
45°	423.1	423.1	425.0	429.8	435.6	439.5	442.4	436.6	422.1	398.0	381.5
47.5°	444.3	445.3	446.3	450.1	456.9	460.7	464.6	459.8	444.3	417.3	400.9
50°	464.6	465.6	466.5	471.4	476.2	481.0	485.9	481.0	466.5	438.5	420.2
52.5°	483.0	483.9	485.9	487.8	494.5	500.3	505.2	501.3	484.9	456.9	437.6
55°	502.3	502.3	503.2	505.2	511.9	518.7	524.5	520.6	504.2	475.2	455.9
57.5°	518.7	518.7	519.7	521.6	527.4	534.2	540.9	538.0	521.6	491.7	472.3
60°	533.2	533.2	534.2	536.1	541.9	550.6	557.3	554.4	538.0	507.1	487.8
62.5°	547.7	547.7	548.6	550.6	556.4	565.1	572.8	569.9	553.5	522.6	502.3
65°	560.2	560.2	560.2	562.2	568.9	578.6	586.3	584.4	567.0	537.0	515.8
67.5°	571.8	571.8	571.8	572.8	580.5	590.2	599.8	597.9	581.5	550.6	528.4
70°	583.4	581.5	583.4	583.4	591.1	601.8	611.4	610.5	594.0	563.1	540.9
72.5°	592.1	591.1	592.1	594.0	600.8	611.4	622.1	622.1	605.6	573.8	552.5
75°	598.9	598.9	598.9	600.8	608.5	620.1	630.7	630.7	615.3	583.4	562.2
77.5°	605.6	605.6	606.6	607.6	615.3	626.9	639.4	638.5	624.0	592.1	571.8
80°	610.5	609.5	610.5	613.4	620.1	632.7	645.2	645.2	630.7	599.8	578.6
82.5°	614.3	613.4	614.3	617.2	624.0	637.5	650.1	650.1	636.5	606.6	585.3
85°	616.3	616.3	617.2	620.1	626.9	640.4	653.0	653.9	641.4	611.4	590.2
87.5°	617.2	617.2	618.2	622.1	628.8	641.4	654.9	656.8	644.3	613.4	593.1
90°	617.2	617.2	619.2	622.1	629.8	642.3	655.9	657.8	645.2	615.3	595.0
92.5°	617.2	616.3	619.2	622.1	628.8	641.4	654.9	656.8	645.2	615.3	595.0
95°	615.3	614.3	617.2	620.1	626.9	639.4	652.0	654.9	643.3	614.3	593.1
97.5°	611.4	611.4	613.4	617.2	624.0	635.6	649.1	651.0	639.4	610.5	590.2
100°	607.6	607.6	609.5	612.4	619.2	631.7	643.3	646.2	632.7	605.6	584.4
102.5°	602.7	602.7	603.7	606.6	614.3	625.9	636.5	638.5	626.9	597.9	577.6
105°	596.0	595.0	596.9	599.8	606.6	618.2	628.8	630.7	617.2	589.2	568.9
107.5°	587.3	587.3	587.3	591.1	597.9	609.5	619.2	620.1	606.6	578.6	557.3
110°	578.6	578.6	578.6	581.5	589.2	599.8	609.5	609.5	595.0	567.0	547.7



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CATALOG NUMBER: ULA-A5-D-U-ASYM-VMx-7030-BK

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	568.9	568.0	568.0	570.9	578.6	589.2	598.9	596.9	582.4	554.4	535.1
115°	557.3	557.3	556.4	559.3	568.0	577.6	586.3	583.4	569.9	540.9	521.6
117.5°	545.7	544.8	544.8	547.7	555.4	566.0	573.8	570.9	555.4	527.4	508.1
120°	533.2	532.2	531.3	534.2	542.8	552.5	559.3	555.4	539.0	511.9	493.6
122.5°	518.7	517.7	517.7	520.6	529.3	539.0	544.8	539.0	524.5	496.5	478.1
125°	503.2	504.2	503.2	506.1	513.9	524.5	529.3	523.5	508.1	480.1	461.7
127.5°	487.8	487.8	486.8	490.7	498.4	508.1	512.9	506.1	490.7	462.7	445.3
130°	471.4	471.4	470.4	474.3	482.0	490.7	493.6	486.8	471.4	444.3	426.9
132.5°	453.0	454.0	454.0	457.8	464.6	471.4	475.2	467.5	452.0	426.0	408.6
135°	435.6	434.7	435.6	438.5	446.3	452.0	453.0	446.3	431.8	405.7	389.3
137.5°	415.3	416.3	416.3	419.2	426.0	431.8	432.7	425.0	410.5	385.4	369.0
140°	396.0	396.0	398.0	399.9	404.7	409.5	409.5	401.8	388.3	363.2	347.7
142.5°	375.7	375.7	376.7	380.6	384.4	387.3	386.4	378.6	365.1	341.0	327.4
145°	356.4	356.4	357.4	360.3	363.2	365.1	363.2	356.4	342.9	318.8	306.2
147.5°	338.1	337.1	339.0	341.0	342.9	343.9	341.9	334.2	319.7	299.4	285.9
150°	318.8	318.8	318.8	321.7	322.6	322.6	319.7	312.0	298.5	278.2	266.6
152.5°	299.4	298.5	299.4	300.4	301.4	300.4	296.5	288.8	276.3	257.9	247.3
155°	279.2	279.2	280.1	280.1	280.1	279.2	275.3	266.6	255.0	238.6	226.0
157.5°	259.8	259.8	259.8	259.8	259.8	257.9	253.1	245.3	231.8	217.3	209.6
160°	240.5	240.5	239.5	238.6	237.6	233.8	229.9	222.2	212.5	199.9	193.2
162.5°	219.3	218.3	218.3	217.3	216.4	213.5	208.6	201.9	193.2	182.6	176.8
165°	199.9	199.0	198.0	198.0	196.1	193.2	189.3	183.5	175.8	166.1	161.3
167.5°	182.6	181.6	180.6	180.6	178.7	174.8	171.0	166.1	159.4	151.6	147.8
170°	167.1	166.1	165.2	164.2	162.3	159.4	155.5	150.7	145.9	140.1	136.2
172.5°	151.6	150.7	149.7	149.7	147.8	144.9	142.0	138.1	134.3	129.4	127.5
175°	137.2	138.1	137.2	136.2	135.2	132.3	130.4	127.5	125.6	122.7	120.7
177.5°	125.6	126.5	126.5	125.6	124.6	122.7	121.7	119.8	118.8	116.9	115.9
180°	115.9	115.9	115.9	115.9	115.9	115.9	115.9	115.9	115.9	115.9	115.9





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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1
2.5°	56.0	53.1	51.2	48.3	45.4	43.5	41.5	39.6	38.6	38.6
5°	58.0	55.1	51.2	47.3	44.4	40.6	38.6	36.7	35.7	35.7
7.5°	68.6	64.7	59.9	55.1	51.2	46.4	43.5	41.5	40.6	40.6
10°	80.2	75.3	69.5	63.8	58.9	54.1	50.2	47.3	46.4	46.4
12.5°	93.7	86.9	80.2	72.4	66.6	59.9	56.0	53.1	52.2	51.2
15°	108.2	99.5	90.8	81.1	73.4	66.6	60.9	57.0	56.0	56.0
17.5°	123.6	112.0	101.4	89.8	80.2	70.5	64.7	59.9	58.0	58.0
20°	140.1	126.5	112.0	98.5	86.0	75.3	66.6	61.8	58.9	58.9
22.5°	159.4	143.0	124.6	108.2	93.7	80.2	69.5	62.8	59.9	58.9
25°	179.7	159.4	139.1	119.8	101.4	85.0	73.4	65.7	60.9	60.9
27.5°	201.9	178.7	154.5	131.4	109.1	90.8	76.3	67.6	62.8	61.8
30°	226.0	199.0	171.0	143.0	117.8	96.6	80.2	69.5	64.7	63.8
32.5°	249.2	218.3	186.4	155.5	126.5	101.4	84.0	72.4	66.6	65.7
35°	274.3	239.5	202.8	168.1	135.2	107.2	86.9	74.4	68.6	67.6
37.5°	297.5	259.8	218.3	179.7	143.9	113.0	90.8	77.3	70.5	69.5
40°	319.7	280.1	235.7	192.2	152.6	118.8	94.7	80.2	72.4	71.5
42.5°	341.0	299.4	252.1	203.8	160.3	124.6	98.5	83.1	75.3	74.4
45°	362.2	316.8	267.6	215.4	169.0	129.4	102.4	85.0	78.2	76.3
47.5°	381.5	334.2	282.0	227.0	176.8	135.2	105.3	87.9	80.2	79.2
50°	399.9	351.6	295.6	238.6	184.5	140.1	109.1	90.8	83.1	82.1
52.5°	417.3	367.0	310.1	250.2	191.3	144.9	113.0	93.7	86.0	85.0
55°	433.7	382.5	322.6	259.8	199.0	149.7	115.9	97.6	88.9	87.9
57.5°	451.1	397.0	335.2	270.5	205.7	154.5	119.8	100.5	91.8	90.8
60°	464.6	410.5	346.8	279.2	212.5	159.4	123.6	103.4	94.7	93.7
62.5°	480.1	423.1	358.4	288.8	219.3	164.2	127.5	107.2	98.5	97.6
65°	492.6	435.6	369.0	297.5	225.1	168.1	130.4	110.1	101.4	100.5
67.5°	506.1	448.2	379.6	306.2	231.8	172.9	134.3	114.0	105.3	104.3
70°	517.7	458.8	389.3	313.9	238.6	177.7	138.1	116.9	109.1	107.2
72.5°	528.4	470.4	398.9	321.7	246.3	181.6	142.0	120.7	112.0	111.1
75°	538.0	479.1	407.6	328.4	251.1	185.5	144.9	123.6	115.9	114.0
77.5°	547.7	487.8	415.3	335.2	256.0	190.3	148.8	127.5	118.8	117.8
80°	555.4	494.5	422.1	340.0	259.8	193.2	151.6	130.4	121.7	120.7
82.5°	561.2	500.3	427.9	344.8	263.7	196.1	153.6	132.3	123.6	122.7
85°	566.0	505.2	431.8	348.7	267.6	198.0	156.5	134.3	125.6	124.6
87.5°	569.9	508.1	434.7	351.6	268.5	199.9	157.4	136.2	127.5	126.5
90°	571.8	510.0	436.6	352.6	270.5	200.9	158.4	137.2	128.5	127.5
92.5°	570.9	510.0	436.6	353.5	271.4	201.9	159.4	137.2	128.5	127.5
95°	569.9	509.0	435.6	352.6	270.5	201.9	159.4	137.2	128.5	127.5
97.5°	566.0	506.1	433.7	350.6	269.5	200.9	157.4	136.2	127.5	126.5
100°	561.2	500.3	429.8	347.7	267.6	199.0	156.5	134.3	125.6	124.6
102.5°	553.5	494.5	424.0	343.9	263.7	196.1	153.6	132.3	123.6	122.7
105°	544.8	486.8	417.3	338.1	259.8	193.2	150.7	129.4	120.7	119.8
107.5°	536.1	476.2	408.6	331.3	255.0	189.3	147.8	126.5	117.8	116.9
110°	524.5	466.5	399.9	324.5	249.2	184.5	143.9	122.7	114.9	113.0



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CATALOG NUMBER: ULA-A5-D-U-ASYM-VMx-7030-BK

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	511.9	455.9	390.2	315.9	243.4	180.6	141.0	119.8	111.1	110.1
115°	499.4	443.4	379.6	308.1	234.7	175.8	137.2	116.9	108.2	107.2
117.5°	485.9	430.8	368.0	298.5	228.0	171.0	133.3	113.0	104.3	103.4
120°	471.4	418.2	356.4	288.8	221.2	166.1	129.4	110.1	101.4	100.5
122.5°	456.9	404.7	344.8	280.1	214.4	161.3	126.5	106.3	98.5	96.6
125°	441.4	390.2	332.3	269.5	207.7	157.4	122.7	103.4	95.6	94.7
127.5°	425.0	374.8	318.8	258.9	199.9	152.6	119.8	101.4	92.7	91.8
130°	407.6	360.3	306.2	249.2	193.2	147.8	116.9	98.5	89.8	88.9
132.5°	389.3	343.9	292.7	236.6	185.5	143.0	113.0	95.6	87.9	86.9
135°	369.9	327.4	278.2	225.1	177.7	138.1	110.1	93.7	86.0	85.0
137.5°	351.6	310.1	264.7	214.4	171.0	134.3	108.2	91.8	85.0	84.0
140°	330.3	291.7	249.2	203.8	163.2	129.4	105.3	89.8	83.1	82.1
142.5°	310.1	274.3	232.8	193.2	156.5	125.6	103.4	88.9	82.1	81.1
145°	290.7	256.9	219.3	183.5	149.7	121.7	100.5	87.9	82.1	81.1
147.5°	272.4	241.5	206.7	173.9	143.0	117.8	98.5	86.9	81.1	80.2
150°	254.0	223.1	193.2	164.2	137.2	114.0	97.6	86.0	81.1	80.2
152.5°	232.8	207.7	181.6	155.5	131.4	111.1	95.6	86.0	81.1	81.1
155°	216.4	193.2	170.0	146.8	126.5	109.1	95.6	86.9	82.1	82.1
157.5°	199.9	180.6	160.3	140.1	122.7	107.2	95.6	87.9	84.0	84.0
160°	184.5	168.1	150.7	134.3	118.8	106.3	95.6	88.9	86.0	85.0
162.5°	170.0	155.5	141.0	127.5	114.9	104.3	95.6	89.8	86.9	86.9
165°	155.5	143.9	132.3	121.7	112.0	102.4	95.6	91.8	88.9	88.9
167.5°	143.0	134.3	125.6	116.9	109.1	102.4	96.6	92.7	91.8	90.8
170°	133.3	126.5	119.8	113.0	107.2	101.4	97.6	95.6	93.7	93.7
172.5°	124.6	119.8	114.9	110.1	106.3	102.4	100.5	98.5	97.6	97.6
175°	118.8	115.9	113.0	110.1	108.2	105.3	104.3	103.4	102.4	102.4
177.5°	115.9	114.0	113.0	112.0	111.1	110.1	110.1	109.1	109.1	109.1
180°	115.9	115.9	115.9	115.9	115.9	115.9	115.9	115.9	115.9	115.9

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