

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: P253720

Luminaire Tested: **ULA-A9-D-U-SYM-VMx-7030-BK**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253720  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1804-729-3)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ULA-A9-D-U-SYM-VMx-7030-BK  
Description: UTILITY LIGHT ACORN TYPE V SYMMETRIC  
Light Source: (90) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8224 lumens  
Efficiency: N/A  
Efficacy: 112.0 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 2.17')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B2 - U5 - G3

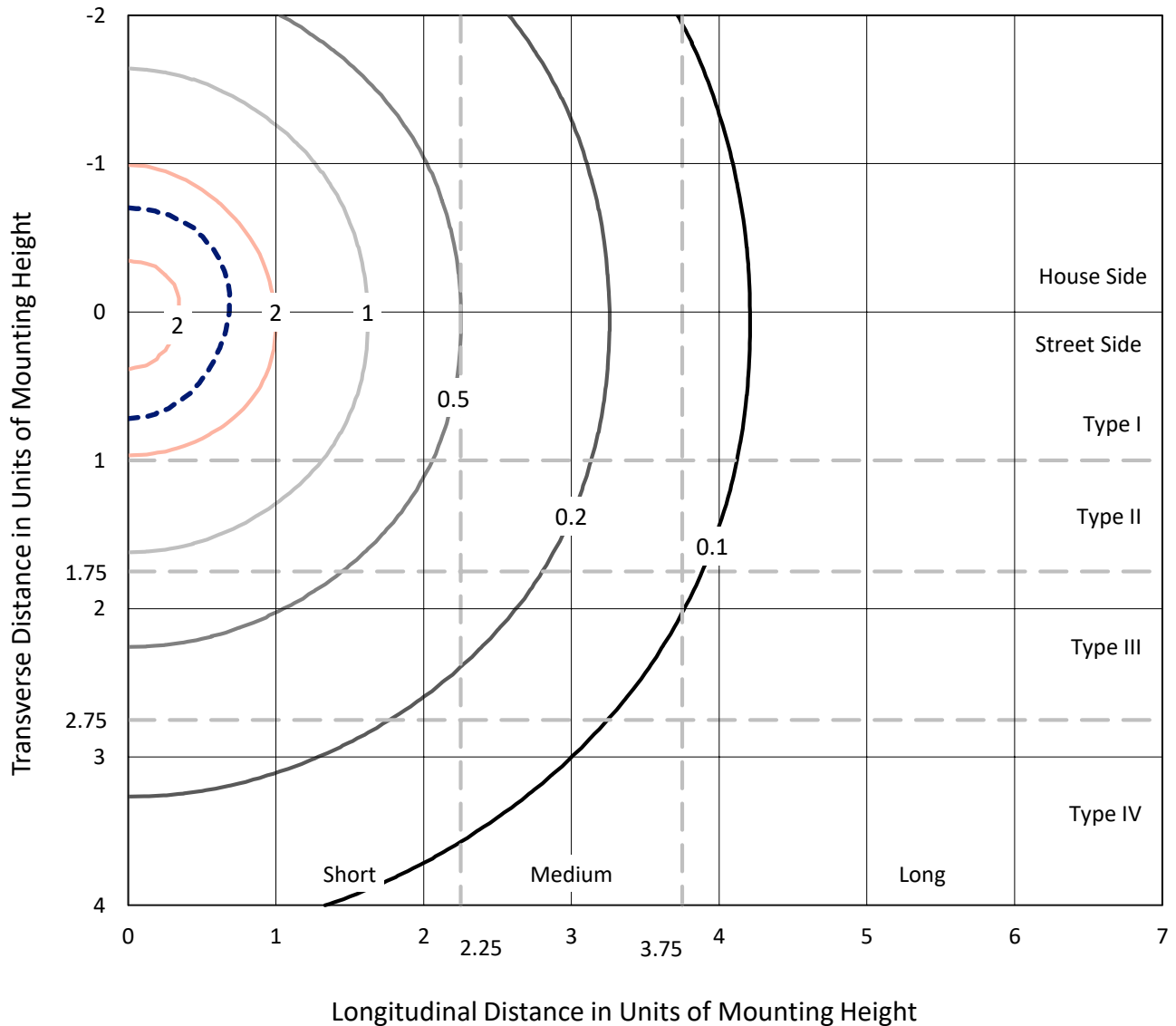
Input Watts (W): 73.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

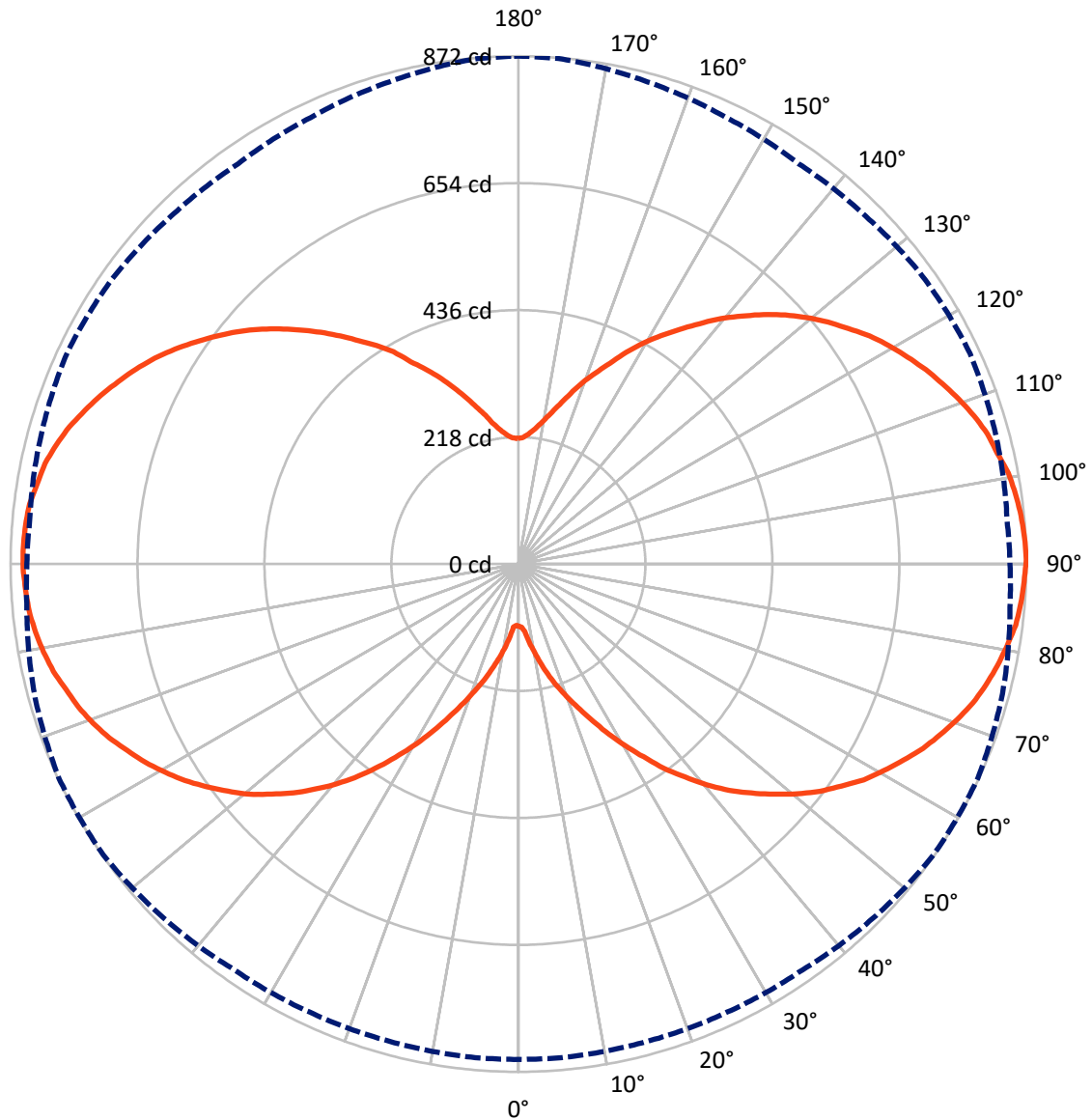
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.5 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 180-Deg Lateral    - - - Horizontal Cone Through 90-Deg Vertical

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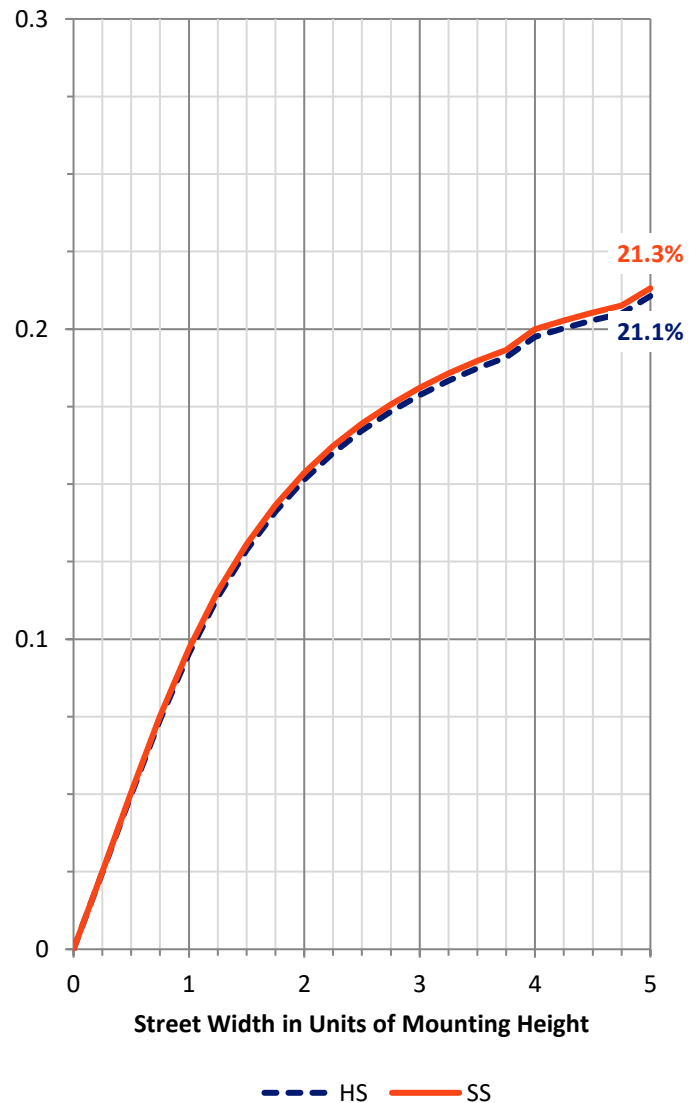
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2004.8	2085.1	4089.9
	% Fixture	24.4	25.4	49.7
<b>Street Side</b>	Lumens	2031.9	2102.3	4134.2
	% Fixture	24.7	25.6	50.3
<b>Total</b>	Lumens	4036.7	4187.3	8224.0
	% Fixture	49.1	50.9	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	12.2	0.1
10°-20°	57.2	0.7
20°-30°	141.1	1.7
30°-40°	273.4	3.3
40°-50°	434.1	5.3
50°-60°	596.3	7.3
60°-70°	742.2	9.0
70°-80°	857.2	10.4
80°-90°	923.1	11.2
90°-100°	927.4	11.3
100°-110°	866.5	10.5
110°-120°	752.8	9.2
120°-130°	609.9	7.4
130°-140°	452.9	5.5
140°-150°	300.7	3.7
150°-160°	173.7	2.1
160°-170°	81.4	1.0
170°-180°	22.0	0.3
0°-90°	4036.7	49.1
0°-180°	8224.0	100.0



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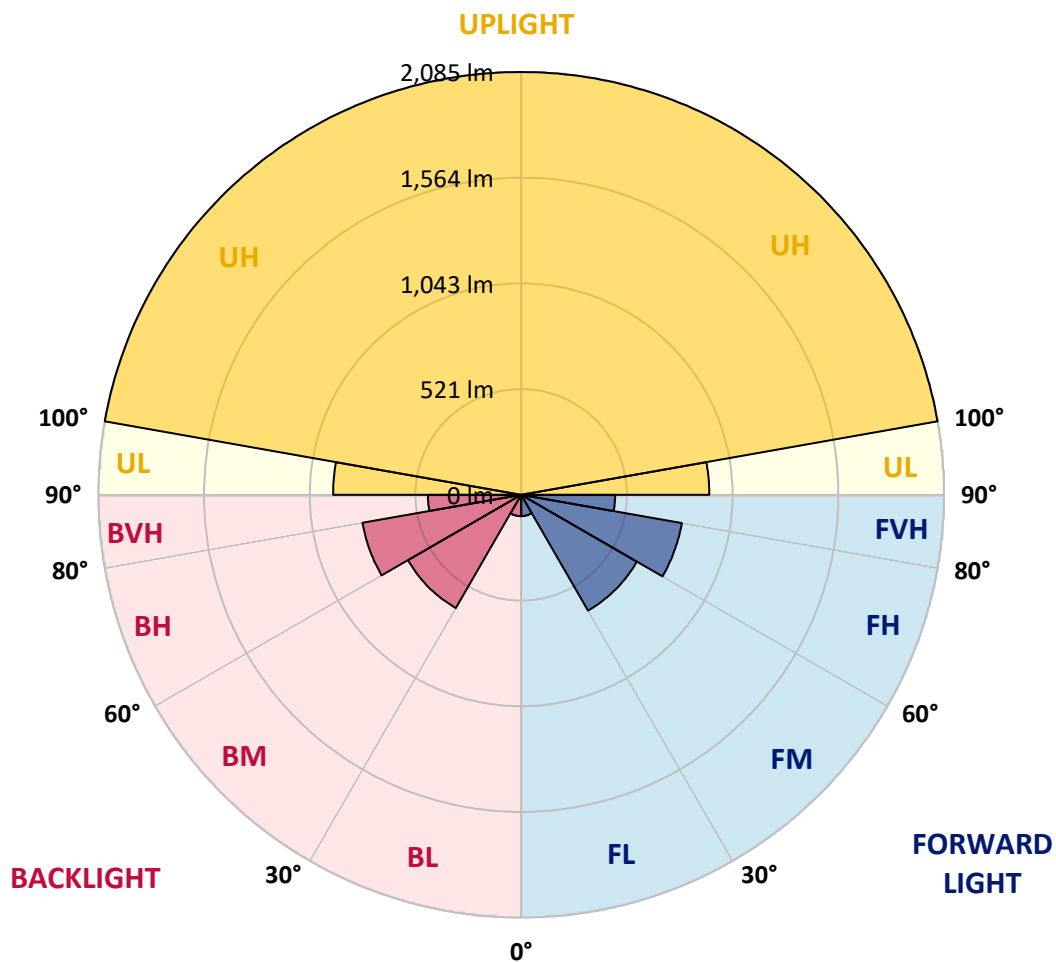
CATALOG NUMBER: ULA-A9-D-U-SYM-VMx-7030-BK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	105.0	1.3			
FM (30°-60°)	659.0	8.0			
FH (60°-80°)	804.7	9.8			G1/1800
FVH (80°-90°)	463.2	5.6			G3/500
BL (0°-30°)	105.5	1.3	B0/110		
BM (30°-60°)	644.8	7.8	B1/1000		
BH (60°-80°)	794.7	9.7	B2/1000		G1/1800
BVH (80°-90°)	459.8	5.6			G3/500
UL (90°-100°)	927.4	11.3		U4/1000	
UH (100°-180°)	2085.1	25.4		U5	

**BUG Rating: B2-U5-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	106.9	106.9	106.9	106.9	106.9	106.9	106.9	106.9	106.9	106.9	106.9
2.5°	105.3	105.3	105.3	103.7	103.7	103.7	103.7	103.7	103.7	105.3	105.3
5°	108.6	108.6	108.6	108.6	108.6	108.6	108.6	110.2	111.9	111.9	113.5
7.5°	128.3	126.7	126.7	126.7	126.7	126.7	126.7	128.3	130.0	131.6	131.6
10°	148.1	146.4	146.4	148.1	148.1	149.7	148.1	151.4	151.4	153.0	154.7
12.5°	167.8	166.2	167.8	169.5	171.1	171.1	172.8	174.4	174.4	176.1	176.1
15°	189.2	187.6	189.2	190.9	192.5	194.2	195.8	197.4	199.1	199.1	197.4
17.5°	212.3	210.6	212.3	213.9	215.5	217.2	220.5	222.1	222.1	222.1	222.1
20°	235.3	233.6	235.3	238.6	240.2	241.9	246.8	248.5	246.8	246.8	245.2
22.5°	261.6	260.0	261.6	264.9	269.8	271.5	274.8	276.4	274.8	274.8	273.1
25°	289.6	289.6	291.2	294.5	299.5	302.7	307.7	309.3	306.0	306.0	304.4
27.5°	320.8	320.8	322.5	327.4	330.7	335.7	342.2	342.2	340.6	338.9	337.3
30°	353.8	352.1	355.4	360.3	365.3	370.2	376.8	380.1	378.4	373.5	370.2
32.5°	386.7	385.0	388.3	394.9	401.5	406.4	413.0	414.6	413.0	408.1	404.8
35°	421.2	422.9	424.5	429.4	437.7	442.6	449.2	450.8	447.5	444.3	439.3
37.5°	455.8	455.8	459.1	464.0	472.2	477.2	483.7	485.4	483.7	477.2	473.9
40°	488.7	488.7	492.0	496.9	503.5	510.1	516.6	519.9	515.0	510.1	505.1
42.5°	519.9	519.9	523.2	526.5	533.1	541.3	547.9	551.2	547.9	539.7	534.7
45°	551.2	551.2	554.5	557.8	564.4	570.9	579.2	580.8	575.9	567.7	564.4
47.5°	579.2	579.2	582.5	585.8	592.3	600.6	607.1	608.8	603.9	595.6	590.7
50°	608.8	607.1	610.4	613.7	620.3	628.5	635.1	635.1	630.2	620.3	615.4
52.5°	633.5	635.1	635.1	638.4	645.0	651.6	659.8	661.4	654.9	643.3	640.1
55°	658.2	659.8	659.8	661.4	668.0	676.3	686.1	684.5	677.9	668.0	661.4
57.5°	682.8	682.8	684.5	684.5	689.4	699.3	709.2	707.5	700.9	689.4	684.5
60°	704.2	704.2	704.2	707.5	710.8	719.0	728.9	730.5	720.7	709.2	704.2
62.5°	725.6	725.6	725.6	727.3	730.5	738.8	750.3	750.3	738.8	727.3	722.3
65°	743.7	745.4	745.4	745.4	750.3	760.2	768.4	768.4	760.2	745.4	742.1
67.5°	763.5	763.5	761.8	761.8	766.7	775.0	786.5	786.5	776.6	761.8	758.5
70°	779.9	779.9	778.3	778.3	783.2	793.1	804.6	802.9	791.4	779.9	775.0
72.5°	794.7	796.4	793.1	793.1	798.0	807.9	819.4	817.8	806.2	793.1	789.8
75°	806.2	809.5	806.2	804.6	809.5	819.4	830.9	830.9	819.4	804.6	801.3
77.5°	819.4	821.0	817.8	817.8	821.0	832.6	842.4	842.4	832.6	817.8	812.8
80°	829.3	830.9	829.3	827.6	830.9	840.8	852.3	852.3	842.4	827.6	822.7
82.5°	837.5	837.5	835.9	835.9	839.1	849.0	858.9	858.9	849.0	835.9	832.6
85°	844.1	845.7	844.1	842.4	845.7	855.6	865.5	865.5	855.6	840.8	837.5
87.5°	847.4	849.0	847.4	847.4	849.0	858.9	868.8	867.1	858.9	844.1	840.8
90°	850.7	850.7	849.0	849.0	850.7	860.5	870.4	870.4	860.5	847.4	844.1
92.5°	850.7	852.3	850.7	850.7	852.3	858.9	868.8	870.4	860.5	847.4	844.1
95°	849.0	849.0	849.0	847.4	849.0	857.2	867.1	867.1	858.9	844.1	840.8
97.5°	845.7	845.7	844.1	844.1	845.7	854.0	862.2	862.2	854.0	840.8	837.5
100°	837.5	839.1	839.1	837.5	839.1	845.7	855.6	855.6	845.7	834.2	830.9
102.5°	830.9	829.3	829.3	829.3	829.3	835.9	845.7	844.1	835.9	824.3	821.0
105°	819.4	819.4	817.8	817.8	819.4	826.0	835.9	834.2	824.3	812.8	809.5
107.5°	806.2	806.2	804.6	804.6	806.2	812.8	822.7	821.0	811.2	799.7	796.4
110°	789.8	789.8	788.1	786.5	791.4	798.0	807.9	806.2	796.4	784.8	781.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	773.3	773.3	773.3	771.7	776.6	783.2	791.4	789.8	779.9	768.4	766.7
115°	755.2	755.2	753.6	753.6	760.2	766.7	775.0	771.7	761.8	751.9	748.6
117.5°	737.1	737.1	733.8	733.8	740.4	748.6	756.9	753.6	743.7	733.8	730.5
120°	717.4	717.4	714.1	714.1	722.3	730.5	738.8	735.5	725.6	714.1	712.4
122.5°	696.0	696.0	692.7	694.3	702.6	710.8	719.0	715.7	705.9	696.0	692.7
125°	673.0	673.0	671.3	673.0	681.2	689.4	697.6	694.3	684.5	676.3	671.3
127.5°	649.9	649.9	649.9	651.6	659.8	668.0	676.3	671.3	663.1	653.2	651.6
130°	626.9	626.9	625.2	628.5	636.8	645.0	651.6	649.9	640.1	631.8	628.5
132.5°	602.2	602.2	602.2	603.9	612.1	620.3	628.5	625.2	617.0	607.1	603.9
135°	575.9	575.9	577.5	579.2	587.4	595.6	602.2	598.9	592.3	582.5	577.5
137.5°	549.6	551.2	551.2	554.5	561.1	569.3	574.2	572.6	564.4	556.1	552.8
140°	523.2	523.2	524.9	528.2	534.7	541.3	544.6	543.0	538.0	529.8	524.9
142.5°	496.9	496.9	498.5	501.8	506.8	511.7	516.6	515.0	510.1	503.5	498.5
145°	470.6	470.6	472.2	475.5	480.5	483.7	488.7	487.0	482.1	475.5	470.6
147.5°	447.5	445.9	447.5	450.8	455.8	457.4	460.7	460.7	455.8	449.2	445.9
150°	422.9	422.9	424.5	426.2	429.4	432.7	434.4	434.4	429.4	422.9	419.6
152.5°	393.2	393.2	394.9	399.8	401.5	406.4	408.1	404.8	401.5	393.2	391.6
155°	370.2	370.2	370.2	373.5	375.1	376.8	378.4	376.8	373.5	368.6	366.9
157.5°	348.8	347.2	347.2	350.5	352.1	352.1	353.8	352.1	350.5	345.5	343.9
160°	325.8	325.8	325.8	327.4	327.4	330.7	330.7	329.1	325.8	324.1	320.8
162.5°	304.4	304.4	304.4	304.4	306.0	306.0	306.0	304.4	302.7	301.1	299.5
165°	283.0	283.0	283.0	283.0	283.0	284.7	284.7	283.0	281.4	279.7	279.7
167.5°	264.9	264.9	263.3	263.3	264.9	264.9	264.9	263.3	263.3	261.6	261.6
170°	246.8	248.5	248.5	246.8	246.8	246.8	246.8	246.8	246.8	245.2	245.2
172.5°	233.6	233.6	233.6	233.6	233.6	233.6	233.6	233.6	233.6	232.0	232.0
175°	223.8	223.8	223.8	222.1	223.8	223.8	223.8	222.1	222.1	222.1	222.1
177.5°	217.2	217.2	217.2	217.2	217.2	217.2	217.2	217.2	217.2	217.2	217.2
180°	215.5	215.5	215.5	215.5	215.5	215.5	215.5	215.5	215.5	215.5	215.5





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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	106.9	106.9	106.9	106.9	106.9	106.9	106.9	106.9	106.9	106.9
2.5°	105.3	105.3	106.9	106.9	108.6	108.6	108.6	108.6	108.6	108.6
5°	113.5	113.5	115.2	115.2	115.2	116.8	116.8	116.8	116.8	116.8
7.5°	133.3	134.9	136.6	134.9	134.9	136.6	134.9	134.9	136.6	136.6
10°	153.0	154.7	156.3	156.3	156.3	156.3	156.3	156.3	156.3	154.7
12.5°	176.1	176.1	176.1	177.7	177.7	177.7	177.7	177.7	179.3	177.7
15°	197.4	197.4	197.4	199.1	199.1	199.1	199.1	200.7	202.4	200.7
17.5°	220.5	220.5	220.5	220.5	220.5	220.5	222.1	223.8	225.4	223.8
20°	245.2	245.2	243.5	243.5	243.5	243.5	245.2	246.8	246.8	246.8
22.5°	273.1	269.8	269.8	268.2	268.2	269.8	271.5	273.1	273.1	271.5
25°	302.7	299.5	296.2	297.8	296.2	297.8	299.5	301.1	301.1	299.5
27.5°	334.0	330.7	327.4	327.4	325.8	327.4	327.4	330.7	332.4	330.7
30°	366.9	363.6	358.7	358.7	357.0	357.0	360.3	362.0	363.6	362.0
32.5°	401.5	394.9	393.2	391.6	388.3	388.3	391.6	393.2	396.5	394.9
35°	437.7	432.7	426.2	422.9	422.9	424.5	426.2	427.8	432.7	431.1
37.5°	470.6	464.0	459.1	455.8	455.8	455.8	460.7	462.4	465.6	464.0
40°	501.8	495.3	490.3	487.0	487.0	487.0	492.0	493.6	498.5	498.5
42.5°	531.5	524.9	523.2	518.3	516.6	518.3	521.6	526.5	531.5	531.5
45°	559.4	554.5	551.2	547.9	546.3	547.9	551.2	557.8	562.7	561.1
47.5°	587.4	582.5	579.2	575.9	574.2	574.2	579.2	585.8	592.3	590.7
50°	613.7	608.8	605.5	603.9	602.2	602.2	607.1	613.7	622.0	620.3
52.5°	636.8	633.5	631.8	630.2	626.9	626.9	631.8	640.1	646.6	648.3
55°	659.8	656.5	656.5	653.2	651.6	651.6	656.5	664.7	671.3	673.0
57.5°	682.8	679.5	681.2	677.9	674.6	673.0	679.5	689.4	696.0	699.3
60°	702.6	700.9	700.9	699.3	696.0	694.3	700.9	710.8	719.0	720.7
62.5°	722.3	720.7	722.3	720.7	715.7	714.1	720.7	730.5	740.4	742.1
65°	740.4	738.8	743.7	740.4	735.5	733.8	740.4	751.9	761.8	763.5
67.5°	756.9	756.9	760.2	758.5	751.9	750.3	756.9	768.4	779.9	781.6
70°	773.3	775.0	779.9	776.6	770.0	768.4	773.3	786.5	798.0	799.7
72.5°	786.5	789.8	796.4	793.1	784.8	781.6	789.8	802.9	814.5	816.1
75°	801.3	802.9	807.9	806.2	799.7	794.7	802.9	816.1	827.6	829.3
77.5°	812.8	816.1	822.7	819.4	811.2	807.9	816.1	829.3	840.8	840.8
80°	822.7	827.6	832.6	830.9	822.7	817.8	826.0	839.1	850.7	850.7
82.5°	830.9	835.9	840.8	839.1	830.9	826.0	832.6	845.7	858.9	860.5
85°	837.5	842.4	849.0	847.4	837.5	832.6	839.1	854.0	863.8	865.5
87.5°	839.1	845.7	854.0	849.0	842.4	835.9	844.1	855.6	867.1	868.8
90°	842.4	849.0	855.6	852.3	844.1	839.1	845.7	857.2	870.4	872.1
92.5°	842.4	849.0	855.6	854.0	845.7	839.1	845.7	858.9	868.8	870.4
95°	840.8	847.4	854.0	852.3	842.4	837.5	844.1	855.6	867.1	867.1
97.5°	835.9	842.4	849.0	847.4	839.1	832.6	839.1	850.7	862.2	862.2
100°	829.3	835.9	844.1	842.4	832.6	827.6	832.6	845.7	855.6	855.6
102.5°	819.4	826.0	834.2	832.6	824.3	817.8	822.7	835.9	844.1	844.1
105°	809.5	814.5	822.7	821.0	812.8	806.2	812.8	824.3	834.2	835.9
107.5°	796.4	801.3	809.5	809.5	801.3	794.7	799.7	812.8	821.0	822.7
110°	781.6	786.5	793.1	793.1	786.5	779.9	784.8	796.4	807.9	807.9



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CATALOG NUMBER: ULA-A9-D-U-SYM-VMx-7030-BK

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	765.1	770.0	776.6	776.6	768.4	763.5	768.4	781.6	791.4	791.4
115°	748.6	751.9	758.5	758.5	751.9	747.0	753.6	765.1	775.0	775.0
117.5°	730.5	733.8	738.8	740.4	733.8	728.9	735.5	745.4	756.9	756.9
120°	710.8	714.1	719.0	719.0	714.1	710.8	715.7	727.3	737.1	738.8
122.5°	692.7	694.3	697.6	697.6	692.7	691.1	696.0	709.2	717.4	719.0
125°	671.3	671.3	676.3	674.6	671.3	669.7	676.3	686.1	696.0	696.0
127.5°	649.9	649.9	651.6	651.6	648.3	646.6	654.9	664.7	673.0	674.6
130°	626.9	625.2	626.9	626.9	625.2	625.2	631.8	641.7	649.9	651.6
132.5°	602.2	600.6	600.6	600.6	600.6	600.6	607.1	617.0	625.2	626.9
135°	575.9	574.2	574.2	574.2	572.6	575.9	582.5	590.7	598.9	600.6
137.5°	551.2	547.9	547.9	546.3	547.9	551.2	556.1	564.4	572.6	572.6
140°	523.2	518.3	518.3	518.3	521.6	524.9	529.8	538.0	544.6	546.3
142.5°	496.9	492.0	490.3	492.0	493.6	496.9	503.5	511.7	516.6	516.6
145°	468.9	464.0	462.4	464.0	467.3	472.2	477.2	483.7	488.7	488.7
147.5°	444.3	439.3	437.7	437.7	442.6	447.5	452.5	459.1	462.4	462.4
150°	417.9	413.0	411.3	413.0	417.9	421.2	427.8	432.7	436.0	436.0
152.5°	390.0	385.0	383.4	385.0	388.3	393.2	399.8	404.8	409.7	408.1
155°	365.3	360.3	358.7	360.3	363.6	368.6	371.9	376.8	380.1	378.4
157.5°	342.2	338.9	337.3	338.9	342.2	345.5	348.8	352.1	355.4	353.8
160°	320.8	317.6	317.6	317.6	319.2	324.1	325.8	329.1	330.7	330.7
162.5°	299.5	296.2	296.2	297.8	299.5	302.7	304.4	306.0	306.0	306.0
165°	279.7	276.4	276.4	278.1	278.1	281.4	281.4	283.0	284.7	283.0
167.5°	261.6	260.0	258.3	260.0	261.6	263.3	263.3	263.3	264.9	263.3
170°	245.2	245.2	243.5	243.5	245.2	246.8	246.8	246.8	246.8	246.8
172.5°	232.0	232.0	232.0	232.0	233.6	233.6	233.6	233.6	233.6	233.6
175°	222.1	222.1	222.1	222.1	223.8	223.8	223.8	223.8	223.8	223.8
177.5°	217.2	217.2	217.2	217.2	217.2	217.2	217.2	217.2	217.2	217.2
180°	215.5	215.5	215.5	215.5	215.5	215.5	215.5	215.5	215.5	215.5

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