

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: P256822

Luminaire Tested: **ULA-A6-D-U-SYM-VMx-7030-BK**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P256822  
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-A6-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: 5748.3 lumens  
Efficiency: N/A  
Efficacy: 129.5 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): 44.4  
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

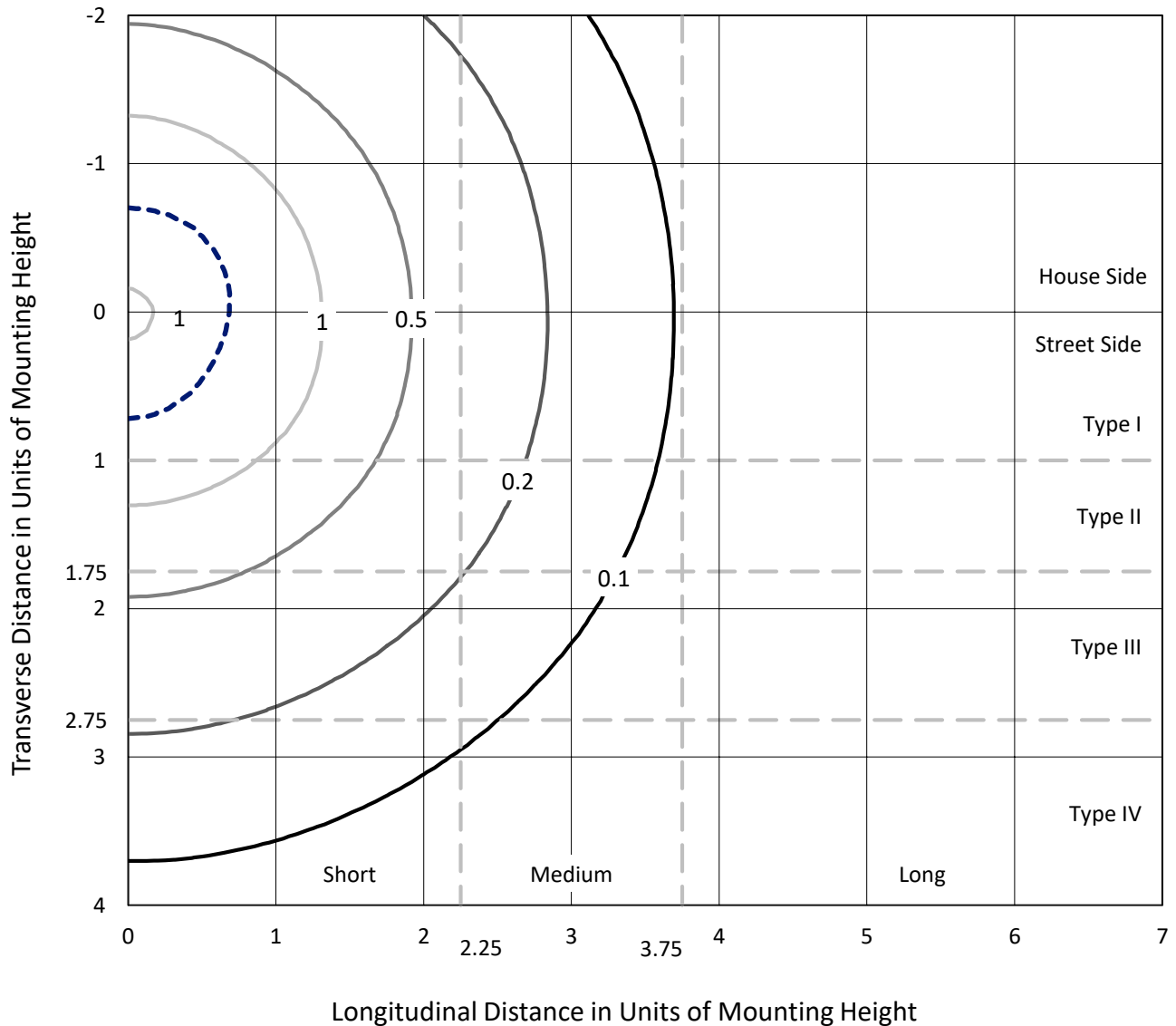


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

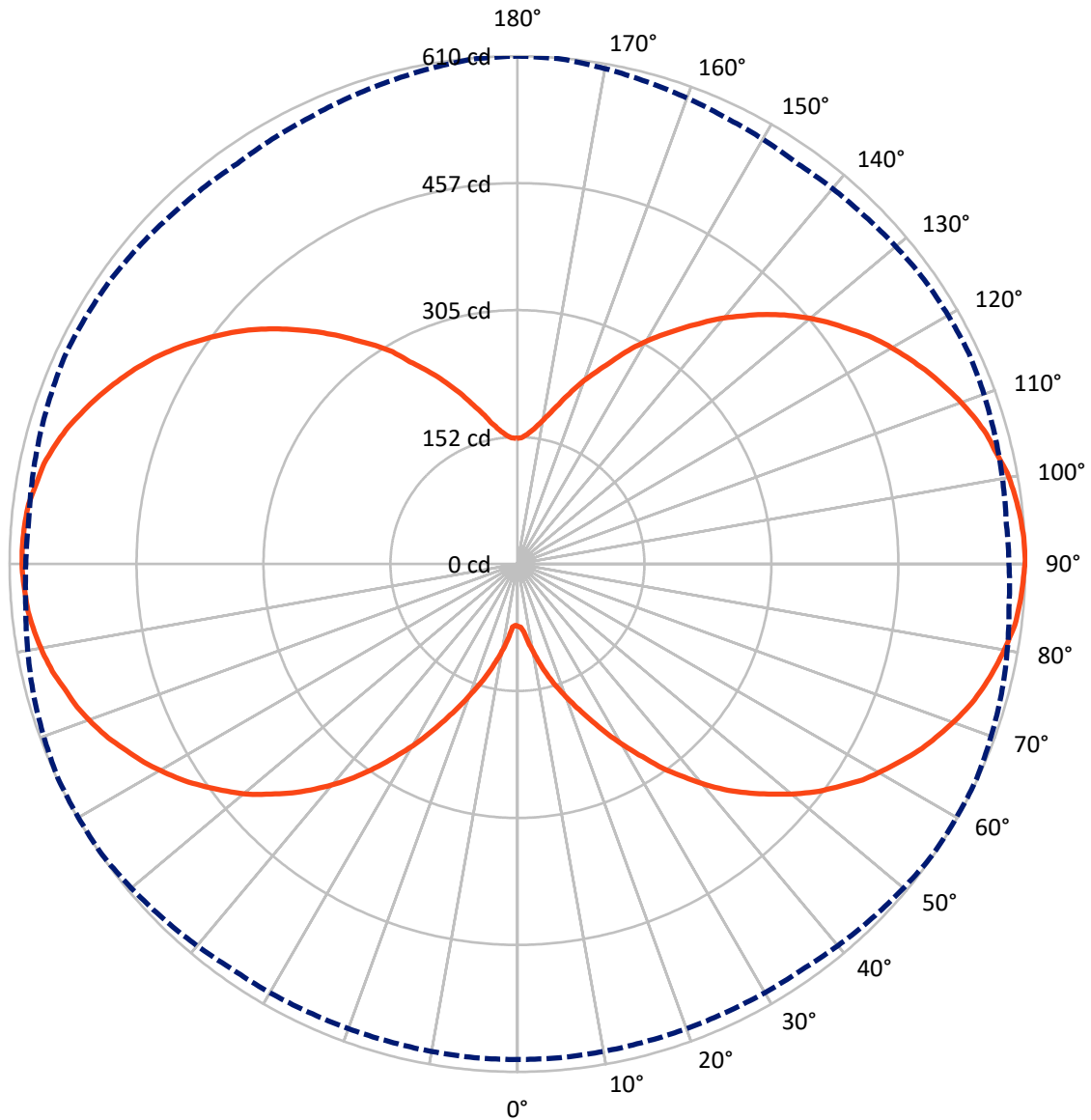


Based on 10 foot mounting height. Maximum calculated value = 1.7 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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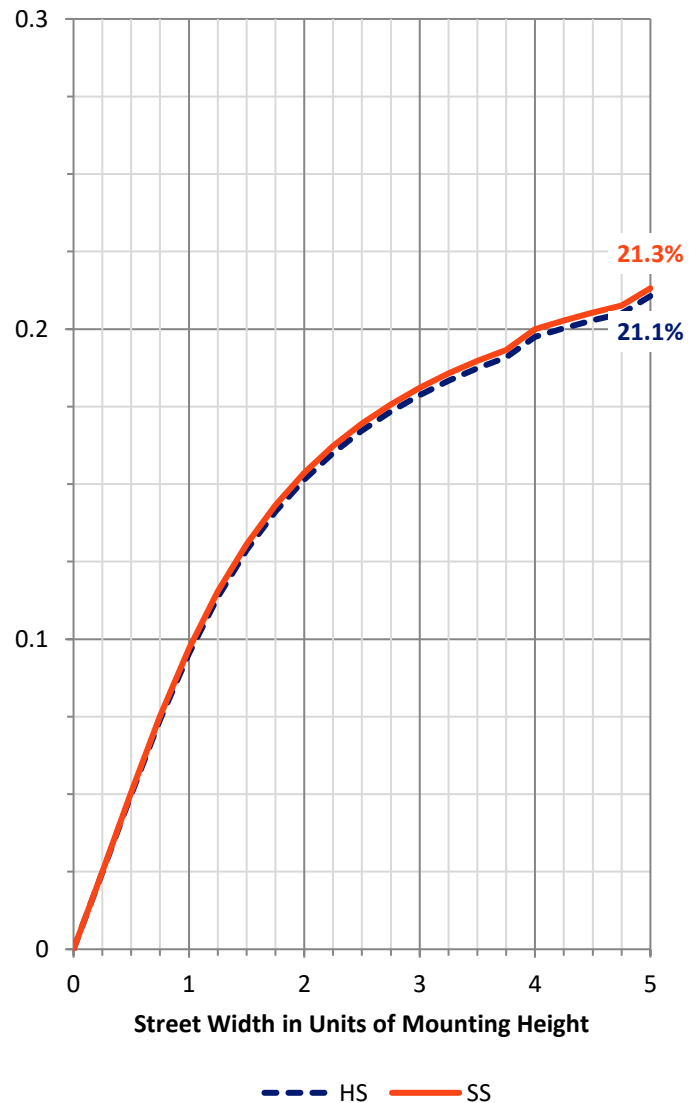
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1401.3	1457.4	2858.7
	% Fixture	24.4	25.4	49.7
<b>Street Side</b>	Lumens	1420.2	1469.4	2889.6
	% Fixture	24.7	25.6	50.3
<b>Total</b>	Lumens	2821.5	2926.8	5748.3
	% Fixture	49.1	50.9	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	8.5	0.1
10°-20°	40.0	0.7
20°-30°	98.7	1.7
30°-40°	191.1	3.3
40°-50°	303.4	5.3
50°-60°	416.8	7.3
60°-70°	518.8	9.0
70°-80°	599.1	10.4
80°-90°	645.2	11.2
90°-100°	648.2	11.3
100°-110°	605.6	10.5
110°-120°	526.2	9.2
120°-130°	426.3	7.4
130°-140°	316.6	5.5
140°-150°	210.2	3.7
150°-160°	121.4	2.1
160°-170°	56.9	1.0
170°-180°	15.4	0.3
0°-90°	2821.5	49.1
0°-180°	5748.3	100.0



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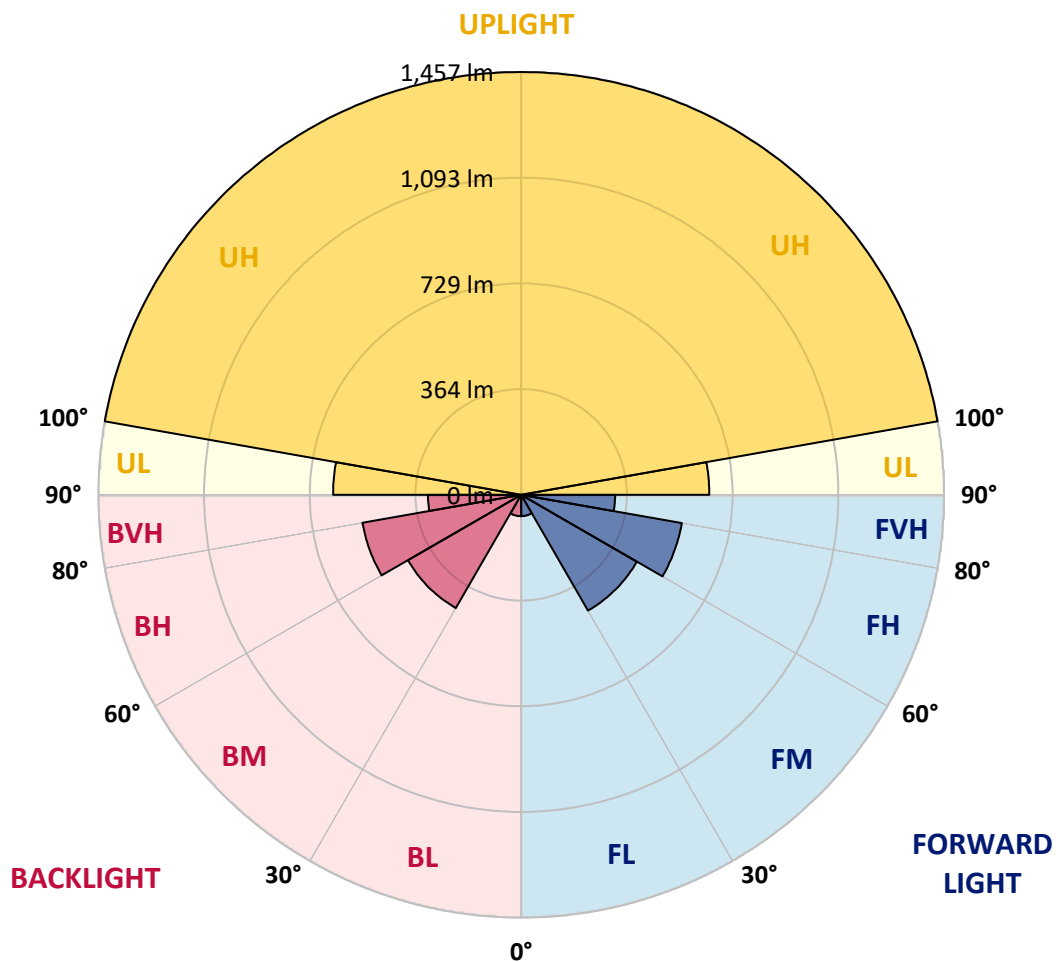
CATALOG NUMBER: ULA-A6-D-U-SYM-VMx-7030-BK

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	73.4	1.3			
FM	(30°-60°)	460.6	8.0			
FH	(60°-80°)	562.4	9.8			G0/660
FVH	(80°-90°)	323.8	5.6			G3/500
BL	(0°-30°)	73.7	1.3	B0/110		
BM	(30°-60°)	450.7	7.8	B1/1000		
BH	(60°-80°)	555.5	9.7	B2/1000		G0/660
BVH	(80°-90°)	321.4	5.6			G3/500
UL	(90°-100°)	648.2	11.3		U4/1000	
UH	(100°-180°)	1457.4	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°	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
2.5°	73.6	73.6	73.6	72.5	72.5	72.5	72.5	72.5	72.5	73.6	73.6
5°	75.9	75.9	75.9	75.9	75.9	75.9	75.9	77.1	78.2	78.2	79.4
7.5°	89.7	88.6	88.6	88.6	88.6	88.6	88.6	89.7	90.9	92.0	92.0
10°	103.5	102.4	102.4	103.5	103.5	104.7	103.5	105.8	105.8	107.0	108.1
12.5°	117.3	116.2	117.3	118.5	119.6	119.6	120.8	121.9	121.9	123.1	123.1
15°	132.3	131.1	132.3	133.4	134.6	135.7	136.9	138.0	139.2	139.2	138.0
17.5°	148.4	147.2	148.4	149.5	150.7	151.8	154.1	155.3	155.3	155.3	155.3
20°	164.5	163.3	164.5	166.8	167.9	169.1	172.5	173.7	172.5	172.5	171.4
22.5°	182.9	181.7	182.9	185.2	188.6	189.8	192.1	193.2	192.1	192.1	190.9
25°	202.4	202.4	203.6	205.9	209.3	211.6	215.1	216.2	213.9	213.9	212.8
27.5°	224.3	224.3	225.4	228.9	231.2	234.6	239.2	239.2	238.1	236.9	235.8
30°	247.3	246.1	248.4	251.9	255.3	258.8	263.4	265.7	264.5	261.1	258.8
32.5°	270.3	269.1	271.4	276.0	280.6	284.1	288.7	289.8	288.7	285.2	282.9
35°	294.4	295.6	296.7	300.2	305.9	309.4	314.0	315.1	312.8	310.5	307.1
37.5°	318.6	318.6	320.9	324.3	330.1	333.5	338.1	339.3	338.1	333.5	331.2
40°	341.6	341.6	343.9	347.3	351.9	356.5	361.1	363.4	360.0	356.5	353.1
42.5°	363.4	363.4	365.7	368.0	372.6	378.4	383.0	385.3	383.0	377.2	373.8
45°	385.3	385.3	387.6	389.9	394.5	399.1	404.8	406.0	402.5	396.8	394.5
47.5°	404.8	404.8	407.1	409.4	414.0	419.8	424.4	425.5	422.1	416.3	412.9
50°	425.5	424.4	426.7	429.0	433.6	439.3	443.9	443.9	440.5	433.6	430.1
52.5°	442.8	443.9	443.9	446.2	450.8	455.4	461.2	462.3	457.7	449.7	447.4
55°	460.0	461.2	461.2	462.3	466.9	472.7	479.6	478.4	473.8	466.9	462.3
57.5°	477.3	477.3	478.4	478.4	481.9	488.8	495.7	494.5	489.9	481.9	478.4
60°	492.2	492.2	492.2	494.5	496.8	502.6	509.5	510.6	503.7	495.7	492.2
62.5°	507.2	507.2	507.2	508.3	510.6	516.4	524.4	524.4	516.4	508.3	504.9
65°	519.8	521.0	521.0	521.0	524.4	531.3	537.1	537.1	531.3	521.0	518.7
67.5°	533.6	533.6	532.5	532.5	535.9	541.7	549.7	549.7	542.8	532.5	530.2
70°	545.1	545.1	544.0	544.0	547.4	554.3	562.4	561.2	553.2	545.1	541.7
72.5°	555.5	556.6	554.3	554.3	557.8	564.7	572.7	571.6	563.5	554.3	552.0
75°	563.5	565.8	563.5	562.4	565.8	572.7	580.8	580.8	572.7	562.4	560.1
77.5°	572.7	573.9	571.6	571.6	573.9	581.9	588.8	588.8	581.9	571.6	568.1
80°	579.6	580.8	579.6	578.5	580.8	587.7	595.7	595.7	588.8	578.5	575.0
82.5°	585.4	585.4	584.2	584.2	586.5	593.4	600.3	600.3	593.4	584.2	581.9
85°	590.0	591.1	590.0	588.8	591.1	598.0	604.9	604.9	598.0	587.7	585.4
87.5°	592.3	593.4	592.3	592.3	593.4	600.3	607.2	606.1	600.3	590.0	587.7
90°	594.6	594.6	593.4	593.4	594.6	601.5	608.4	608.4	601.5	592.3	590.0
92.5°	594.6	595.7	594.6	594.6	595.7	600.3	607.2	608.4	601.5	592.3	590.0
95°	593.4	593.4	593.4	592.3	593.4	599.2	606.1	606.1	600.3	590.0	587.7
97.5°	591.1	591.1	590.0	590.0	591.1	596.9	602.6	602.6	596.9	587.7	585.4
100°	585.4	586.5	586.5	585.4	586.5	591.1	598.0	598.0	591.1	583.1	580.8
102.5°	580.8	579.6	579.6	579.6	579.6	584.2	591.1	590.0	584.2	576.2	573.9
105°	572.7	572.7	571.6	571.6	572.7	577.3	584.2	583.1	576.2	568.1	565.8
107.5°	563.5	563.5	562.4	562.4	563.5	568.1	575.0	573.9	567.0	558.9	556.6
110°	552.0	552.0	550.9	549.7	553.2	557.8	564.7	563.5	556.6	548.6	546.3



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CATALOG NUMBER: ULA-A6-D-U-SYM-VMx-7030-BK

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	540.5	540.5	540.5	539.4	542.8	547.4	553.2	552.0	545.1	537.1	535.9
115°	527.9	527.9	526.7	526.7	531.3	535.9	541.7	539.4	532.5	525.6	523.3
117.5°	515.2	515.2	512.9	512.9	517.5	523.3	529.0	526.7	519.8	512.9	510.6
120°	501.4	501.4	499.1	499.1	504.9	510.6	516.4	514.1	507.2	499.1	498.0
122.5°	486.5	486.5	484.2	485.3	491.1	496.8	502.6	500.3	493.4	486.5	484.2
125°	470.4	470.4	469.2	470.4	476.1	481.9	487.6	485.3	478.4	472.7	469.2
127.5°	454.3	454.3	454.3	455.4	461.2	466.9	472.7	469.2	463.5	456.6	455.4
130°	438.2	438.2	437.0	439.3	445.1	450.8	455.4	454.3	447.4	441.6	439.3
132.5°	420.9	420.9	420.9	422.1	427.8	433.6	439.3	437.0	431.3	424.4	422.1
135°	402.5	402.5	403.7	404.8	410.6	416.3	420.9	418.6	414.0	407.1	403.7
137.5°	384.1	385.3	385.3	387.6	392.2	397.9	401.4	400.2	394.5	388.7	386.4
140°	365.7	365.7	366.9	369.2	373.8	378.4	380.7	379.5	376.1	370.3	366.9
142.5°	347.3	347.3	348.5	350.8	354.2	357.7	361.1	360.0	356.5	351.9	348.5
145°	328.9	328.9	330.1	332.4	335.8	338.1	341.6	340.4	337.0	332.4	328.9
147.5°	312.8	311.7	312.8	315.1	318.6	319.7	322.0	322.0	318.6	314.0	311.7
150°	295.6	295.6	296.7	297.9	300.2	302.5	303.6	303.6	300.2	295.6	293.3
152.5°	274.9	274.9	276.0	279.5	280.6	284.1	285.2	282.9	280.6	274.9	273.7
155°	258.8	258.8	258.8	261.1	262.2	263.4	264.5	263.4	261.1	257.6	256.5
157.5°	243.8	242.7	242.7	245.0	246.1	246.1	247.3	246.1	245.0	241.5	240.4
160°	227.7	227.7	227.7	228.9	228.9	231.2	231.2	230.0	227.7	226.6	224.3
162.5°	212.8	212.8	212.8	212.8	213.9	213.9	213.9	212.8	211.6	210.5	209.3
165°	197.8	197.8	197.8	197.8	197.8	199.0	199.0	197.8	196.7	195.5	195.5
167.5°	185.2	185.2	184.0	184.0	185.2	185.2	185.2	184.0	184.0	182.9	182.9
170°	172.5	173.7	173.7	172.5	172.5	172.5	172.5	172.5	172.5	171.4	171.4
172.5°	163.3	163.3	163.3	163.3	163.3	163.3	163.3	163.3	163.3	162.2	162.2
175°	156.4	156.4	156.4	155.3	156.4	156.4	156.4	155.3	155.3	155.3	155.3
177.5°	151.8	151.8	151.8	151.8	151.8	151.8	151.8	151.8	151.8	151.8	151.8
180°	150.7	150.7	150.7	150.7	150.7	150.7	150.7	150.7	150.7	150.7	150.7





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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
2.5°	73.6	73.6	74.8	74.8	75.9	75.9	75.9	75.9	75.9	75.9
5°	79.4	79.4	80.5	80.5	80.5	81.7	81.7	81.7	81.7	81.7
7.5°	93.2	94.3	95.5	94.3	94.3	95.5	94.3	94.3	95.5	95.5
10°	107.0	108.1	109.3	109.3	109.3	109.3	109.3	109.3	109.3	108.1
12.5°	123.1	123.1	123.1	124.2	124.2	124.2	124.2	124.2	125.4	124.2
15°	138.0	138.0	138.0	139.2	139.2	139.2	139.2	140.3	141.5	140.3
17.5°	154.1	154.1	154.1	154.1	154.1	154.1	155.3	156.4	157.6	156.4
20°	171.4	171.4	170.2	170.2	170.2	170.2	171.4	172.5	172.5	172.5
22.5°	190.9	188.6	188.6	187.5	187.5	188.6	189.8	190.9	190.9	189.8
25°	211.6	209.3	207.0	208.2	207.0	208.2	209.3	210.5	210.5	209.3
27.5°	233.5	231.2	228.9	228.9	227.7	228.9	228.9	231.2	232.3	231.2
30°	256.5	254.2	250.7	250.7	249.6	249.6	251.9	253.0	254.2	253.0
32.5°	280.6	276.0	274.9	273.7	271.4	271.4	273.7	274.9	277.2	276.0
35°	305.9	302.5	297.9	295.6	295.6	296.7	297.9	299.0	302.5	301.3
37.5°	328.9	324.3	320.9	318.6	318.6	318.6	322.0	323.2	325.5	324.3
40°	350.8	346.2	342.7	340.4	340.4	340.4	343.9	345.0	348.5	348.5
42.5°	371.5	366.9	365.7	362.3	361.1	362.3	364.6	368.0	371.5	371.5
45°	391.0	387.6	385.3	383.0	381.8	383.0	385.3	389.9	393.3	392.2
47.5°	410.6	407.1	404.8	402.5	401.4	401.4	404.8	409.4	414.0	412.9
50°	429.0	425.5	423.2	422.1	420.9	420.9	424.4	429.0	434.7	433.6
52.5°	445.1	442.8	441.6	440.5	438.2	438.2	441.6	447.4	452.0	453.1
55°	461.2	458.9	458.9	456.6	455.4	455.4	458.9	464.6	469.2	470.4
57.5°	477.3	475.0	476.1	473.8	471.5	470.4	475.0	481.9	486.5	488.8
60°	491.1	489.9	489.9	488.8	486.5	485.3	489.9	496.8	502.6	503.7
62.5°	504.9	503.7	504.9	503.7	500.3	499.1	503.7	510.6	517.5	518.7
65°	517.5	516.4	519.8	517.5	514.1	512.9	517.5	525.6	532.5	533.6
67.5°	529.0	529.0	531.3	530.2	525.6	524.4	529.0	537.1	545.1	546.3
70°	540.5	541.7	545.1	542.8	538.2	537.1	540.5	549.7	557.8	558.9
72.5°	549.7	552.0	556.6	554.3	548.6	546.3	552.0	561.2	569.3	570.4
75°	560.1	561.2	564.7	563.5	558.9	555.5	561.2	570.4	578.5	579.6
77.5°	568.1	570.4	575.0	572.7	567.0	564.7	570.4	579.6	587.7	587.7
80°	575.0	578.5	581.9	580.8	575.0	571.6	577.3	586.5	594.6	594.6
82.5°	580.8	584.2	587.7	586.5	580.8	577.3	581.9	591.1	600.3	601.5
85°	585.4	588.8	593.4	592.3	585.4	581.9	586.5	596.9	603.8	604.9
87.5°	586.5	591.1	596.9	593.4	588.8	584.2	590.0	598.0	606.1	607.2
90°	588.8	593.4	598.0	595.7	590.0	586.5	591.1	599.2	608.4	609.5
92.5°	588.8	593.4	598.0	596.9	591.1	586.5	591.1	600.3	607.2	608.4
95°	587.7	592.3	596.9	595.7	588.8	585.4	590.0	598.0	606.1	606.1
97.5°	584.2	588.8	593.4	592.3	586.5	581.9	586.5	594.6	602.6	602.6
100°	579.6	584.2	590.0	588.8	581.9	578.5	581.9	591.1	598.0	598.0
102.5°	572.7	577.3	583.1	581.9	576.2	571.6	575.0	584.2	590.0	590.0
105°	565.8	569.3	575.0	573.9	568.1	563.5	568.1	576.2	583.1	584.2
107.5°	556.6	560.1	565.8	565.8	560.1	555.5	558.9	568.1	573.9	575.0
110°	546.3	549.7	554.3	554.3	549.7	545.1	548.6	556.6	564.7	564.7



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CATALOG NUMBER: ULA-A6-D-U-SYM-VMx-7030-BK

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	534.8	538.2	542.8	542.8	537.1	533.6	537.1	546.3	553.2	553.2
115°	523.3	525.6	530.2	530.2	525.6	522.1	526.7	534.8	541.7	541.7
117.5°	510.6	512.9	516.4	517.5	512.9	509.5	514.1	521.0	529.0	529.0
120°	496.8	499.1	502.6	502.6	499.1	496.8	500.3	508.3	515.2	516.4
122.5°	484.2	485.3	487.6	487.6	484.2	483.0	486.5	495.7	501.4	502.6
125°	469.2	469.2	472.7	471.5	469.2	468.1	472.7	479.6	486.5	486.5
127.5°	454.3	454.3	455.4	455.4	453.1	452.0	457.7	464.6	470.4	471.5
130°	438.2	437.0	438.2	438.2	437.0	437.0	441.6	448.5	454.3	455.4
132.5°	420.9	419.8	419.8	419.8	419.8	419.8	424.4	431.3	437.0	438.2
135°	402.5	401.4	401.4	401.4	400.2	402.5	407.1	412.9	418.6	419.8
137.5°	385.3	383.0	383.0	381.8	383.0	385.3	388.7	394.5	400.2	400.2
140°	365.7	362.3	362.3	362.3	364.6	366.9	370.3	376.1	380.7	381.8
142.5°	347.3	343.9	342.7	343.9	345.0	347.3	351.9	357.7	361.1	361.1
145°	327.8	324.3	323.2	324.3	326.6	330.1	333.5	338.1	341.6	341.6
147.5°	310.5	307.1	305.9	305.9	309.4	312.8	316.3	320.9	323.2	323.2
150°	292.1	288.7	287.5	288.7	292.1	294.4	299.0	302.5	304.8	304.8
152.5°	272.6	269.1	268.0	269.1	271.4	274.9	279.5	282.9	286.4	285.2
155°	255.3	251.9	250.7	251.9	254.2	257.6	259.9	263.4	265.7	264.5
157.5°	239.2	236.9	235.8	236.9	239.2	241.5	243.8	246.1	248.4	247.3
160°	224.3	222.0	222.0	222.0	223.1	226.6	227.7	230.0	231.2	231.2
162.5°	209.3	207.0	207.0	208.2	209.3	211.6	212.8	213.9	213.9	213.9
165°	195.5	193.2	193.2	194.4	194.4	196.7	196.7	197.8	199.0	197.8
167.5°	182.9	181.7	180.6	181.7	182.9	184.0	184.0	184.0	185.2	184.0
170°	171.4	171.4	170.2	170.2	171.4	172.5	172.5	172.5	172.5	172.5
172.5°	162.2	162.2	162.2	162.2	163.3	163.3	163.3	163.3	163.3	163.3
175°	155.3	155.3	155.3	155.3	156.4	156.4	156.4	156.4	156.4	156.4
177.5°	151.8	151.8	151.8	151.8	151.8	151.8	151.8	151.8	151.8	151.8
180°	150.7	150.7	150.7	150.7	150.7	150.7	150.7	150.7	150.7	150.7

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