

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: P256824

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256824
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-A7-D-U-SYM-VMx-7027-BK
Description: UTILITY LIGHT ACORN TYPE V SYMMETRIC
Light Source: (90) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6452.9 lumens
Efficiency: N/A
Efficacy: 117.8 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): 54.8
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



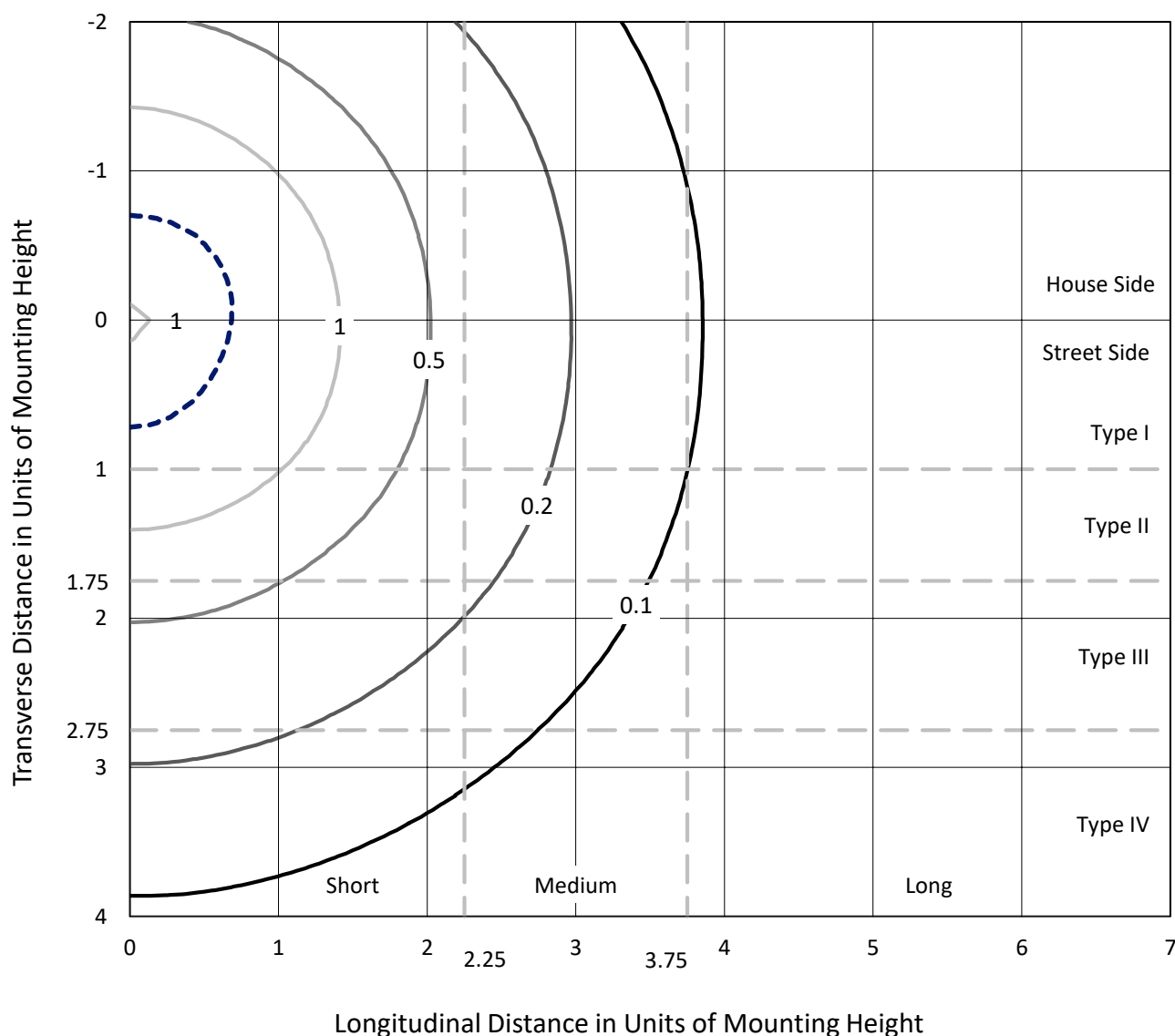
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

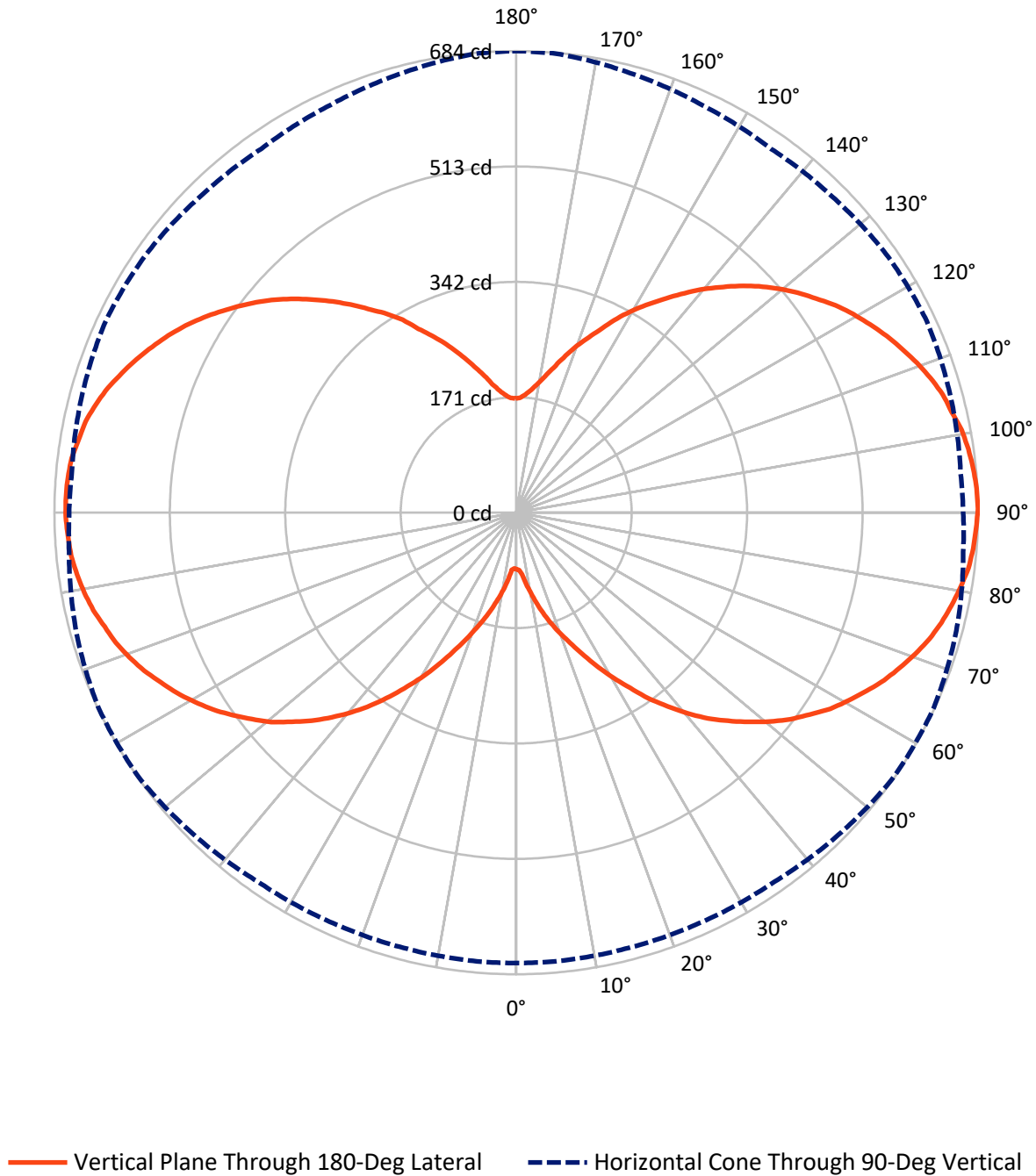


Based on 10 foot mounting height. Maximum calculated value = 1.9 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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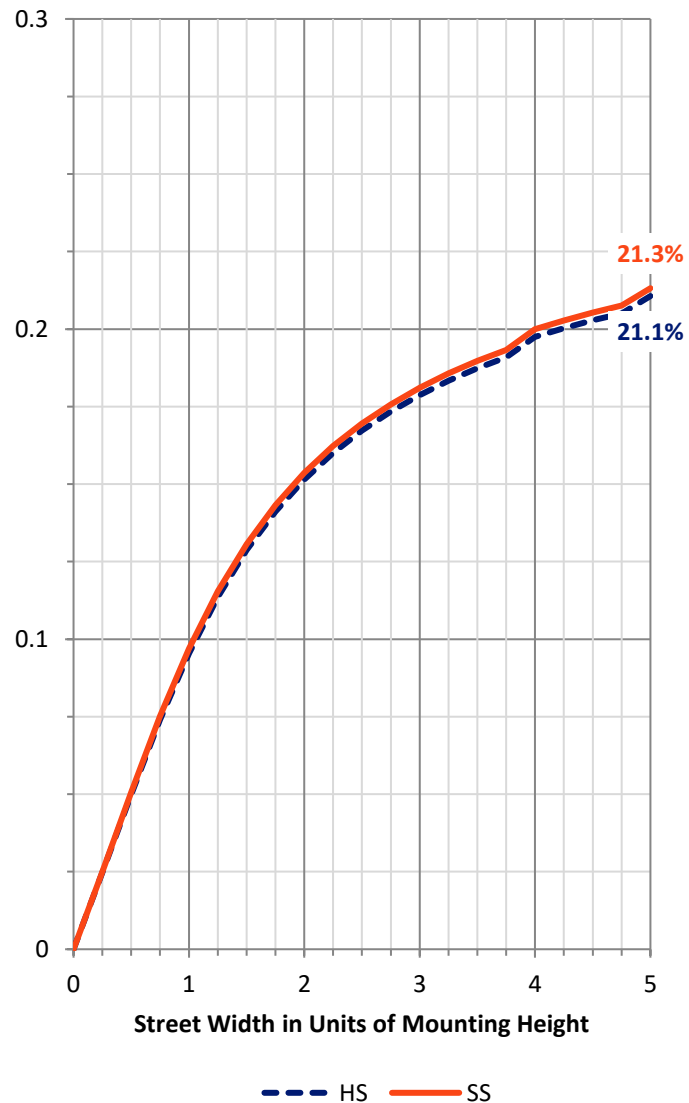
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1573.0	1636.0	3209.1
	% Fixture	24.4	25.4	49.7
Street Side	Lumens	1594.3	1649.5	3243.8
	% Fixture	24.7	25.6	50.3
Total	Lumens	3167.4	3285.6	6452.9
	% Fixture	49.1	50.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.5	0.1
10°-20°	44.9	0.7
20°-30°	110.7	1.7
30°-40°	214.5	3.3
40°-50°	340.6	5.3
50°-60°	467.9	7.3
60°-70°	582.4	9.0
70°-80°	672.6	10.4
80°-90°	724.3	11.2
90°-100°	727.7	11.3
100°-110°	679.9	10.5
110°-120°	590.7	9.2
120°-130°	478.5	7.4
130°-140°	355.4	5.5
140°-150°	236.0	3.7
150°-160°	136.3	2.1
160°-170°	63.9	1.0
170°-180°	17.3	0.3
0°-90°	3167.4	49.1
0°-180°	6452.9	100.0



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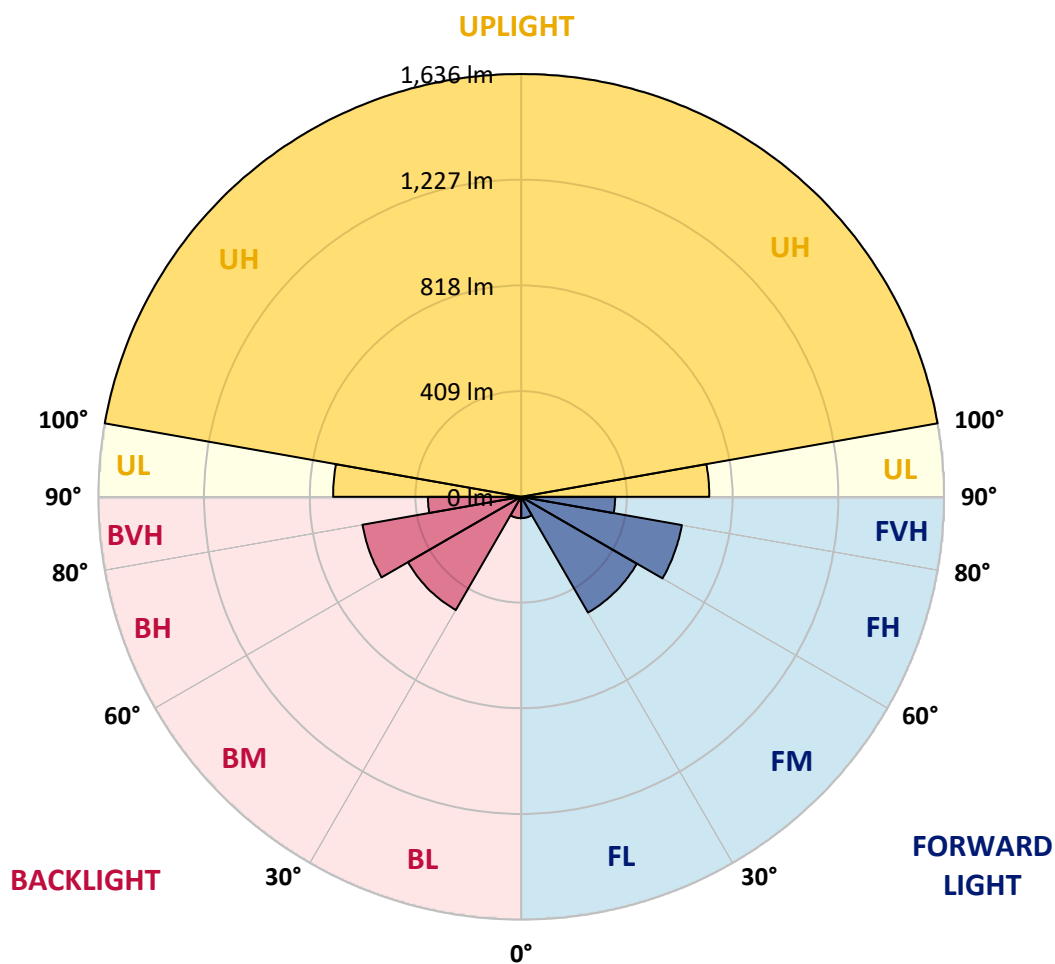
CATALOG NUMBER: ULA-A7-D-U-SYM-VMx-7027-BK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	82.4	1.3			
FM	(30°-60°)	517.1	8.0			
FH	(60°-80°)	631.4	9.8			G0/660
FVH	(80°-90°)	363.5	5.6			G3/500
BL	(0°-30°)	82.8	1.3	B0/110		
BM	(30°-60°)	505.9	7.8	B1/1000		
BH	(60°-80°)	623.6	9.7	B2/1000		G0/660
BVH	(80°-90°)	360.8	5.6			G3/500
UL	(90°-100°)	727.7	11.3		U4/1000	
UH	(100°-180°)	1636.0	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°	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
2.5°	82.6	82.6	82.6	81.3	81.3	81.3	81.3	81.3	81.3	82.6	82.6
5°	85.2	85.2	85.2	85.2	85.2	85.2	85.2	86.5	87.8	87.8	89.1
7.5°	100.7	99.4	99.4	99.4	99.4	99.4	99.4	100.7	102.0	103.3	103.3
10°	116.2	114.9	114.9	116.2	116.2	117.5	116.2	118.8	118.8	120.1	121.4
12.5°	131.7	130.4	131.7	133.0	134.3	134.3	135.6	136.8	136.8	138.1	138.1
15°	148.5	147.2	148.5	149.8	151.1	152.3	153.6	154.9	156.2	156.2	154.9
17.5°	166.5	165.3	166.5	167.8	169.1	170.4	173.0	174.3	174.3	174.3	174.3
20°	184.6	183.3	184.6	187.2	188.5	189.8	193.7	194.9	193.7	193.7	192.4
22.5°	205.3	204.0	205.3	207.9	211.7	213.0	215.6	216.9	215.6	215.6	214.3
25°	227.2	227.2	228.5	231.1	235.0	237.5	241.4	242.7	240.1	240.1	238.8
27.5°	251.8	251.8	253.0	256.9	259.5	263.4	268.5	268.5	267.2	266.0	264.7
30°	277.6	276.3	278.9	282.7	286.6	290.5	295.6	298.2	296.9	293.1	290.5
32.5°	303.4	302.1	304.7	309.8	315.0	318.9	324.0	325.3	324.0	320.2	317.6
35°	330.5	331.8	333.1	337.0	343.4	347.3	352.5	353.7	351.2	348.6	344.7
37.5°	357.6	357.6	360.2	364.1	370.5	374.4	379.6	380.9	379.6	374.4	371.8
40°	383.4	383.4	386.0	389.9	395.1	400.2	405.4	408.0	404.1	400.2	396.3
42.5°	408.0	408.0	410.5	413.1	418.3	424.7	429.9	432.5	429.9	423.5	419.6
45°	432.5	432.5	435.1	437.7	442.8	448.0	454.4	455.7	451.9	445.4	442.8
47.5°	454.4	454.4	457.0	459.6	464.8	471.2	476.4	477.7	473.8	467.4	463.5
50°	477.7	476.4	479.0	481.6	486.7	493.2	498.3	498.3	494.5	486.7	482.8
52.5°	497.0	498.3	498.3	500.9	506.1	511.2	517.7	519.0	513.8	504.8	502.2
55°	516.4	517.7	517.7	519.0	524.2	530.6	538.4	537.1	531.9	524.2	519.0
57.5°	535.8	535.8	537.1	537.1	540.9	548.7	556.4	555.1	550.0	540.9	537.1
60°	552.6	552.6	552.6	555.1	557.7	564.2	571.9	573.2	565.5	556.4	552.6
62.5°	569.3	569.3	569.3	570.6	573.2	579.7	588.7	588.7	579.7	570.6	566.8
65°	583.5	584.8	584.8	584.8	588.7	596.5	602.9	602.9	596.5	584.8	582.3
67.5°	599.0	599.0	597.7	597.7	601.6	608.1	617.1	617.1	609.4	597.7	595.2
70°	611.9	611.9	610.7	610.7	614.5	622.3	631.3	630.0	621.0	611.9	608.1
72.5°	623.6	624.9	622.3	622.3	626.1	633.9	642.9	641.6	632.6	622.3	619.7
75°	632.6	635.2	632.6	631.3	635.2	642.9	652.0	652.0	642.9	631.3	628.7
77.5°	642.9	644.2	641.6	641.6	644.2	653.3	661.0	661.0	653.3	641.6	637.8
80°	650.7	652.0	650.7	649.4	652.0	659.7	668.8	668.8	661.0	649.4	645.5
82.5°	657.1	657.1	655.8	655.8	658.4	666.2	673.9	673.9	666.2	655.8	653.3
85°	662.3	663.6	662.3	661.0	663.6	671.3	679.1	679.1	671.3	659.7	657.1
87.5°	664.9	666.2	664.9	664.9	666.2	673.9	681.7	680.4	673.9	662.3	659.7
90°	667.5	667.5	666.2	666.2	667.5	675.2	683.0	683.0	675.2	664.9	662.3
92.5°	667.5	668.8	667.5	667.5	668.8	673.9	681.7	683.0	675.2	664.9	662.3
95°	666.2	666.2	666.2	664.9	666.2	672.6	680.4	680.4	673.9	662.3	659.7
97.5°	663.6	663.6	662.3	662.3	663.6	670.0	676.5	676.5	670.0	659.7	657.1
100°	657.1	658.4	658.4	657.1	658.4	663.6	671.3	671.3	663.6	654.6	652.0
102.5°	652.0	650.7	650.7	650.7	650.7	655.8	663.6	662.3	655.8	646.8	644.2
105°	642.9	642.9	641.6	641.6	642.9	648.1	655.8	654.6	646.8	637.8	635.2
107.5°	632.6	632.6	631.3	631.3	632.6	637.8	645.5	644.2	636.5	627.4	624.9
110°	619.7	619.7	618.4	617.1	621.0	626.1	633.9	632.6	624.9	615.8	613.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	606.8	606.8	606.8	605.5	609.4	614.5	621.0	619.7	611.9	602.9	601.6
115°	592.6	592.6	591.3	591.3	596.5	601.6	608.1	605.5	597.7	590.0	587.4
117.5°	578.4	578.4	575.8	575.8	581.0	587.4	593.9	591.3	583.5	575.8	573.2
120°	562.9	562.9	560.3	560.3	566.8	573.2	579.7	577.1	569.3	560.3	559.0
122.5°	546.1	546.1	543.5	544.8	551.3	557.7	564.2	561.6	553.9	546.1	543.5
125°	528.0	528.0	526.7	528.0	534.5	540.9	547.4	544.8	537.1	530.6	526.7
127.5°	510.0	510.0	510.0	511.2	517.7	524.2	530.6	526.7	520.3	512.5	511.2
130°	491.9	491.9	490.6	493.2	499.6	506.1	511.2	510.0	502.2	495.8	493.2
132.5°	472.5	472.5	472.5	473.8	480.3	486.7	493.2	490.6	484.1	476.4	473.8
135°	451.9	451.9	453.2	454.4	460.9	467.4	472.5	469.9	464.8	457.0	453.2
137.5°	431.2	432.5	432.5	435.1	440.2	446.7	450.6	449.3	442.8	436.4	433.8
140°	410.5	410.5	411.8	414.4	419.6	424.7	427.3	426.0	422.2	415.7	411.8
142.5°	389.9	389.9	391.2	393.8	397.6	401.5	405.4	404.1	400.2	395.1	391.2
145°	369.2	369.2	370.5	373.1	377.0	379.6	383.4	382.1	378.3	373.1	369.2
147.5°	351.2	349.9	351.2	353.7	357.6	358.9	361.5	361.5	357.6	352.5	349.9
150°	331.8	331.8	333.1	334.4	337.0	339.5	340.8	340.8	337.0	331.8	329.2
152.5°	308.6	308.6	309.8	313.7	315.0	318.9	320.2	317.6	315.0	308.6	307.3
155°	290.5	290.5	290.5	293.1	294.4	295.6	296.9	295.6	293.1	289.2	287.9
157.5°	273.7	272.4	272.4	275.0	276.3	276.3	277.6	276.3	275.0	271.1	269.8
160°	255.6	255.6	255.6	256.9	256.9	259.5	259.5	258.2	255.6	254.3	251.8
162.5°	238.8	238.8	238.8	238.8	240.1	240.1	240.1	238.8	237.5	236.3	235.0
165°	222.1	222.1	222.1	222.1	222.1	223.3	223.3	222.1	220.8	219.5	219.5
167.5°	207.9	207.9	206.6	206.6	207.9	207.9	207.9	206.6	206.6	205.3	205.3
170°	193.7	194.9	194.9	193.7	193.7	193.7	193.7	193.7	193.7	192.4	192.4
172.5°	183.3	183.3	183.3	183.3	183.3	183.3	183.3	183.3	183.3	182.0	182.0
175°	175.6	175.6	175.6	174.3	175.6	175.6	175.6	174.3	174.3	174.3	174.3
177.5°	170.4	170.4	170.4	170.4	170.4	170.4	170.4	170.4	170.4	170.4	170.4
180°	169.1	169.1	169.1	169.1	169.1	169.1	169.1	169.1	169.1	169.1	169.1



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
2.5°	82.6	82.6	83.9	83.9	85.2	85.2	85.2	85.2	85.2	85.2
5°	89.1	89.1	90.4	90.4	90.4	91.7	91.7	91.7	91.7	91.7
7.5°	104.6	105.9	107.2	105.9	105.9	107.2	105.9	105.9	107.2	107.2
10°	120.1	121.4	122.6	122.6	122.6	122.6	122.6	122.6	122.6	121.4
12.5°	138.1	138.1	138.1	139.4	139.4	139.4	139.4	139.4	140.7	139.4
15°	154.9	154.9	154.9	156.2	156.2	156.2	156.2	157.5	158.8	157.5
17.5°	173.0	173.0	173.0	173.0	173.0	173.0	174.3	175.6	176.9	175.6
20°	192.4	192.4	191.1	191.1	191.1	191.1	192.4	193.7	193.7	193.7
22.5°	214.3	211.7	211.7	210.4	210.4	211.7	213.0	214.3	214.3	213.0
25°	237.5	235.0	232.4	233.7	232.4	233.7	235.0	236.3	236.3	235.0
27.5°	262.1	259.5	256.9	256.9	255.6	256.9	256.9	259.5	260.8	259.5
30°	287.9	285.3	281.4	281.4	280.2	280.2	282.7	284.0	285.3	284.0
32.5°	315.0	309.8	308.6	307.3	304.7	304.7	307.3	308.6	311.1	309.8
35°	343.4	339.5	334.4	331.8	331.8	333.1	334.4	335.7	339.5	338.2
37.5°	369.2	364.1	360.2	357.6	357.6	357.6	361.5	362.8	365.4	364.1
40°	393.8	388.6	384.7	382.1	382.1	382.1	386.0	387.3	391.2	391.2
42.5°	417.0	411.8	410.5	406.7	405.4	406.7	409.3	413.1	417.0	417.0
45°	438.9	435.1	432.5	429.9	428.6	429.9	432.5	437.7	441.5	440.2
47.5°	460.9	457.0	454.4	451.9	450.6	450.6	454.4	459.6	464.8	463.5
50°	481.6	477.7	475.1	473.8	472.5	472.5	476.4	481.6	488.0	486.7
52.5°	499.6	497.0	495.8	494.5	491.9	491.9	495.8	502.2	507.4	508.7
55°	517.7	515.1	515.1	512.5	511.2	511.2	515.1	521.6	526.7	528.0
57.5°	535.8	533.2	534.5	531.9	529.3	528.0	533.2	540.9	546.1	548.7
60°	551.3	550.0	550.0	548.7	546.1	544.8	550.0	557.7	564.2	565.5
62.5°	566.8	565.5	566.8	565.5	561.6	560.3	565.5	573.2	581.0	582.3
65°	581.0	579.7	583.5	581.0	577.1	575.8	581.0	590.0	597.7	599.0
67.5°	593.9	593.9	596.5	595.2	590.0	588.7	593.9	602.9	611.9	613.2
70°	606.8	608.1	611.9	609.4	604.2	602.9	606.8	617.1	626.1	627.4
72.5°	617.1	619.7	624.9	622.3	615.8	613.2	619.7	630.0	639.1	640.3
75°	628.7	630.0	633.9	632.6	627.4	623.6	630.0	640.3	649.4	650.7
77.5°	637.8	640.3	645.5	642.9	636.5	633.9	640.3	650.7	659.7	659.7
80°	645.5	649.4	653.3	652.0	645.5	641.6	648.1	658.4	667.5	667.5
82.5°	652.0	655.8	659.7	658.4	652.0	648.1	653.3	663.6	673.9	675.2
85°	657.1	661.0	666.2	664.9	657.1	653.3	658.4	670.0	677.8	679.1
87.5°	658.4	663.6	670.0	666.2	661.0	655.8	662.3	671.3	680.4	681.7
90°	661.0	666.2	671.3	668.8	662.3	658.4	663.6	672.6	683.0	684.2
92.5°	661.0	666.2	671.3	670.0	663.6	658.4	663.6	673.9	681.7	683.0
95°	659.7	664.9	670.0	668.8	661.0	657.1	662.3	671.3	680.4	680.4
97.5°	655.8	661.0	666.2	664.9	658.4	653.3	658.4	667.5	676.5	676.5
100°	650.7	655.8	662.3	661.0	653.3	649.4	653.3	663.6	671.3	671.3
102.5°	642.9	648.1	654.6	653.3	646.8	641.6	645.5	655.8	662.3	662.3
105°	635.2	639.1	645.5	644.2	637.8	632.6	637.8	646.8	654.6	655.8
107.5°	624.9	628.7	635.2	635.2	628.7	623.6	627.4	637.8	644.2	645.5
110°	613.2	617.1	622.3	622.3	617.1	611.9	615.8	624.9	633.9	633.9



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CATALOG NUMBER: ULA-A7-D-U-SYM-VMx-7027-BK

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	600.3	604.2	609.4	609.4	602.9	599.0	602.9	613.2	621.0	621.0
115°	587.4	590.0	595.2	595.2	590.0	586.1	591.3	600.3	608.1	608.1
117.5°	573.2	575.8	579.7	581.0	575.8	571.9	577.1	584.8	593.9	593.9
120°	557.7	560.3	564.2	564.2	560.3	557.7	561.6	570.6	578.4	579.7
122.5°	543.5	544.8	547.4	547.4	543.5	542.2	546.1	556.4	562.9	564.2
125°	526.7	526.7	530.6	529.3	526.7	525.4	530.6	538.4	546.1	546.1
127.5°	510.0	510.0	511.2	511.2	508.7	507.4	513.8	521.6	528.0	529.3
130°	491.9	490.6	491.9	491.9	490.6	490.6	495.8	503.5	510.0	511.2
132.5°	472.5	471.2	471.2	471.2	471.2	471.2	476.4	484.1	490.6	491.9
135°	451.9	450.6	450.6	450.6	449.3	451.9	457.0	463.5	469.9	471.2
137.5°	432.5	429.9	429.9	428.6	429.9	432.5	436.4	442.8	449.3	449.3
140°	410.5	406.7	406.7	406.7	409.3	411.8	415.7	422.2	427.3	428.6
142.5°	389.9	386.0	384.7	386.0	387.3	389.9	395.1	401.5	405.4	405.4
145°	367.9	364.1	362.8	364.1	366.7	370.5	374.4	379.6	383.4	383.4
147.5°	348.6	344.7	343.4	343.4	347.3	351.2	355.0	360.2	362.8	362.8
150°	327.9	324.0	322.8	324.0	327.9	330.5	335.7	339.5	342.1	342.1
152.5°	306.0	302.1	300.8	302.1	304.7	308.6	313.7	317.6	321.5	320.2
155°	286.6	282.7	281.4	282.7	285.3	289.2	291.8	295.6	298.2	296.9
157.5°	268.5	266.0	264.7	266.0	268.5	271.1	273.7	276.3	278.9	277.6
160°	251.8	249.2	249.2	249.2	250.5	254.3	255.6	258.2	259.5	259.5
162.5°	235.0	232.4	232.4	233.7	235.0	237.5	238.8	240.1	240.1	240.1
165°	219.5	216.9	216.9	218.2	218.2	220.8	220.8	222.1	223.3	222.1
167.5°	205.3	204.0	202.7	204.0	205.3	206.6	206.6	206.6	207.9	206.6
170°	192.4	192.4	191.1	191.1	192.4	193.7	193.7	193.7	193.7	193.7
172.5°	182.0	182.0	182.0	182.0	183.3	183.3	183.3	183.3	183.3	183.3
175°	174.3	174.3	174.3	174.3	175.6	175.6	175.6	175.6	175.6	175.6
177.5°	170.4	170.4	170.4	170.4	170.4	170.4	170.4	170.4	170.4	170.4
180°	169.1	169.1	169.1	169.1	169.1	169.1	169.1	169.1	169.1	169.1

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