

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: P256823

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256823
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-BK
Description: UTILITY LIGHT ACORN TYPE V SYMMETRIC
Light Source: (90) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5951 lumens
Efficiency: N/A
Efficacy: 134.0 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): 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



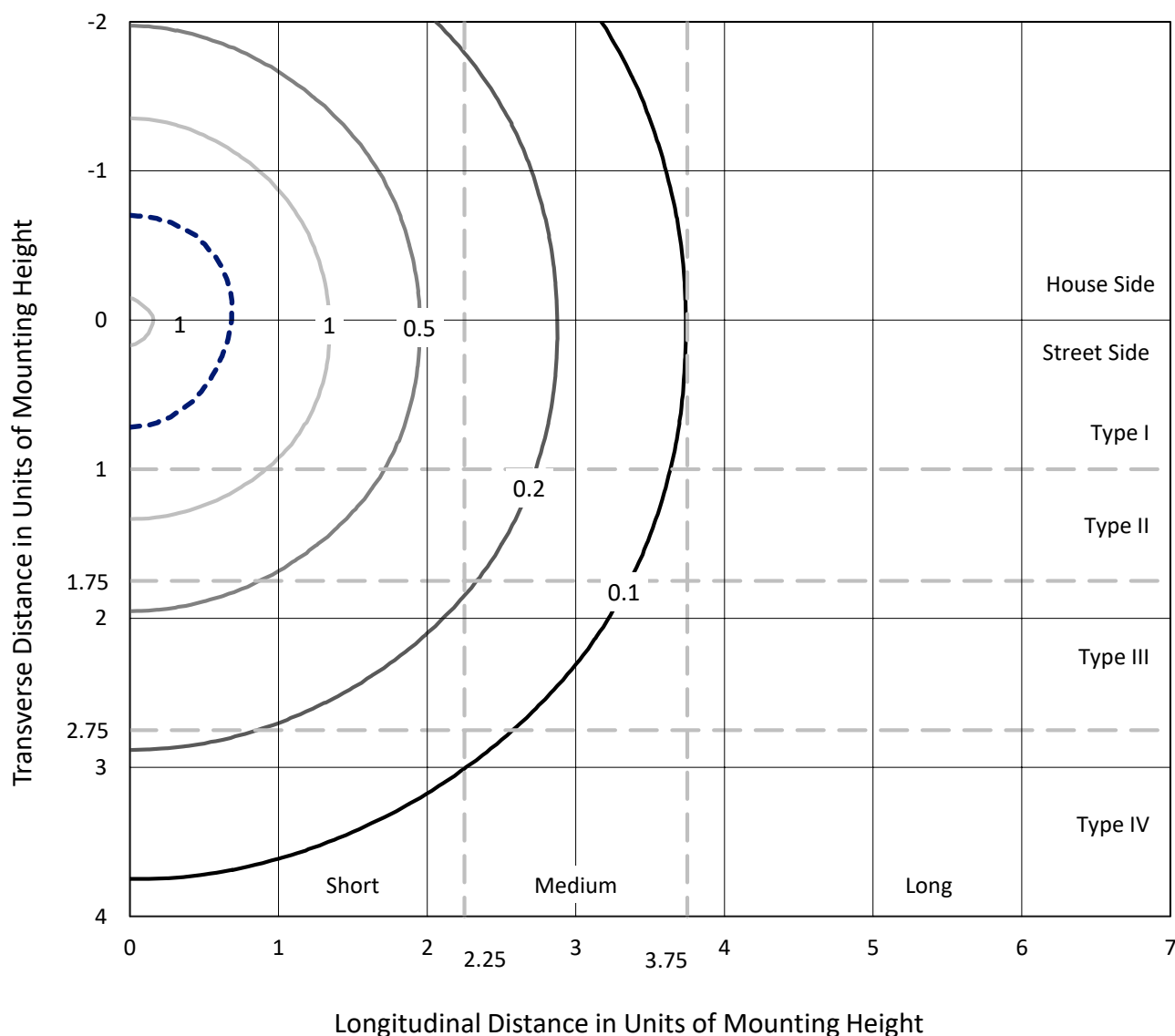
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

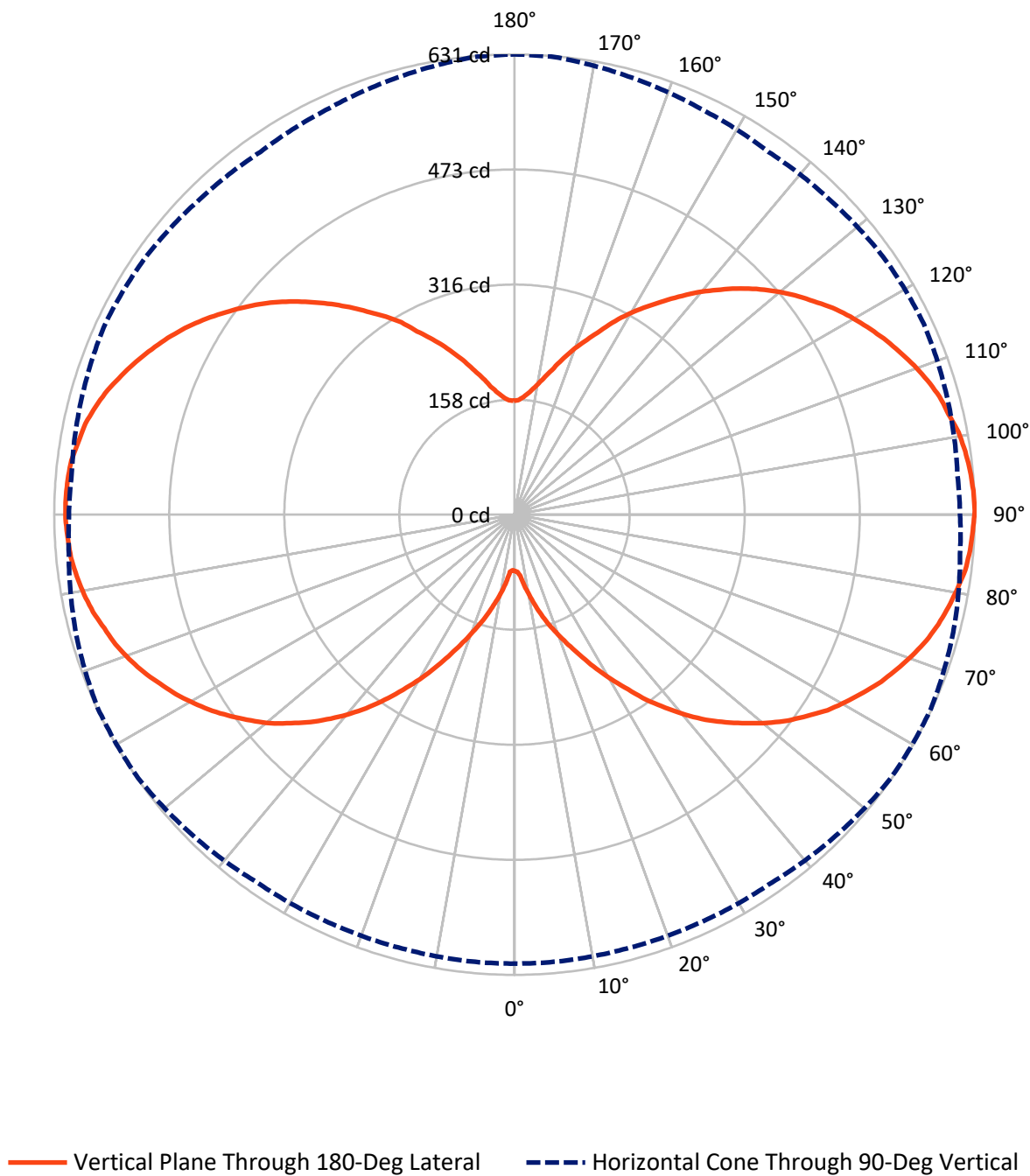


Based on 10 foot mounting height. Maximum calculated value = 1.8 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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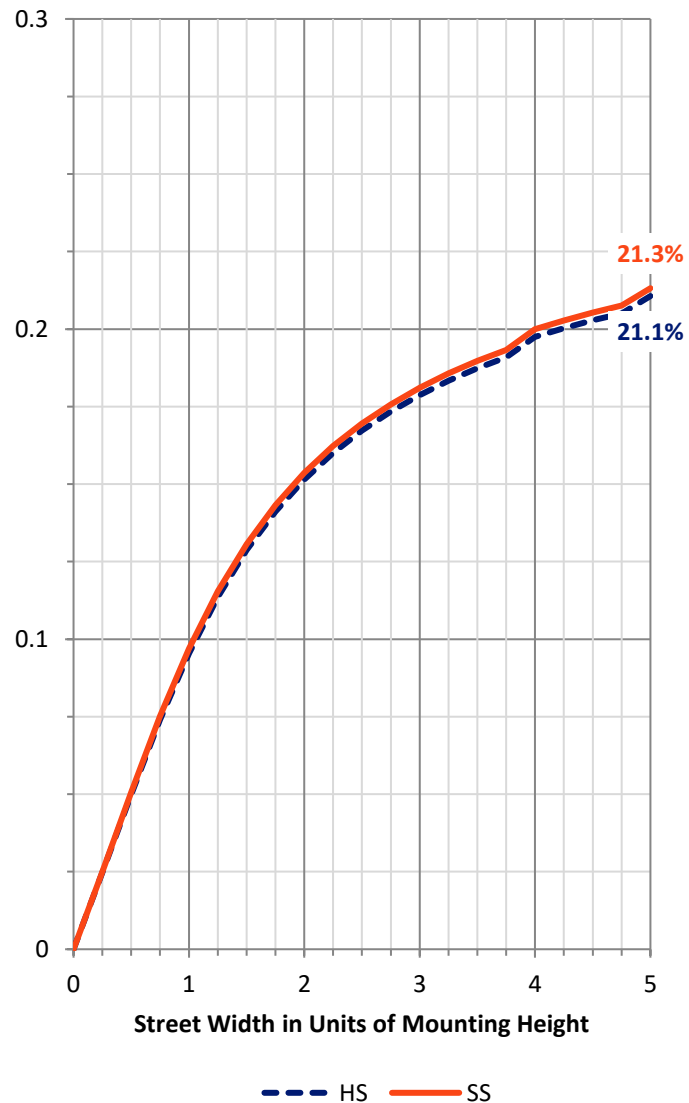
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1450.7	1508.8	2959.5
	% Fixture	24.4	25.4	49.7
Street Side	Lumens	1470.3	1521.2	2991.5
	% Fixture	24.7	25.6	50.3
Total	Lumens	2921.0	3030.0	5951.0
	% Fixture	49.1	50.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.8	0.1
10°-20°	41.4	0.7
20°-30°	102.1	1.7
30°-40°	197.8	3.3
40°-50°	314.1	5.3
50°-60°	431.5	7.3
60°-70°	537.1	9.0
70°-80°	620.3	10.4
80°-90°	667.9	11.2
90°-100°	671.1	11.3
100°-110°	627.0	10.5
110°-120°	544.7	9.2
120°-130°	441.3	7.4
130°-140°	327.7	5.5
140°-150°	217.6	3.7
150°-160°	125.7	2.1
160°-170°	58.9	1.0
170°-180°	16.0	0.3
0°-90°	2921.0	49.1
0°-180°	5951.0	100.0



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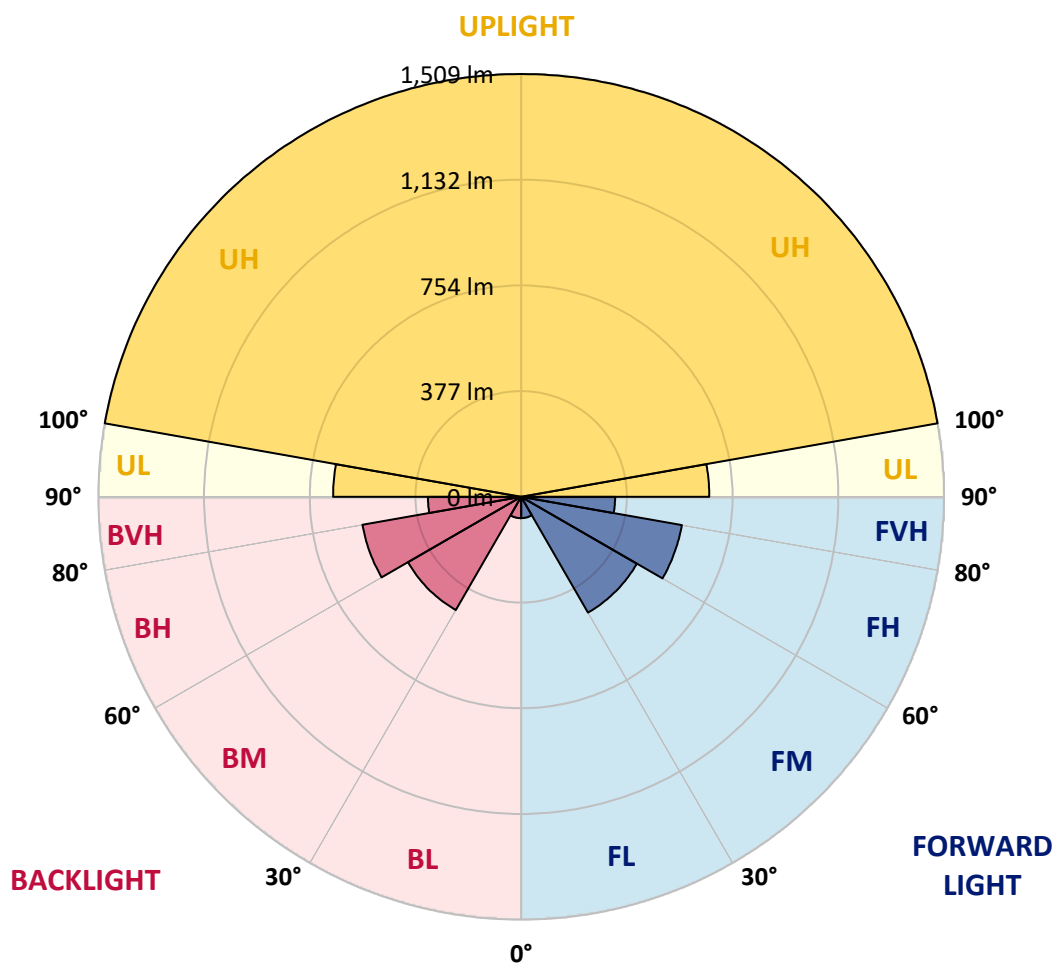
CATALOG NUMBER: ULA-A6-D-U-SYM-VMx-BK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	76.0	1.3			
FM	(30°-60°)	476.9	8.0			
FH	(60°-80°)	582.3	9.8			G0/660
FVH	(80°-90°)	335.2	5.6			G3/500
BL	(0°-30°)	76.3	1.3	B0/110		
BM	(30°-60°)	466.6	7.8	B1/1000		
BH	(60°-80°)	575.1	9.7	B2/1000		G0/660
BVH	(80°-90°)	332.7	5.6			G3/500
UL	(90°-100°)	671.1	11.3		U4/1000	
UH	(100°-180°)	1508.8	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°	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
2.5°	76.2	76.2	76.2	75.0	75.0	75.0	75.0	75.0	75.0	76.2	76.2
5°	78.6	78.6	78.6	78.6	78.6	78.6	78.6	79.8	81.0	81.0	82.2
7.5°	92.9	91.7	91.7	91.7	91.7	91.7	91.7	92.9	94.1	95.2	95.2
10°	107.2	106.0	106.0	107.2	107.2	108.3	107.2	109.5	109.5	110.7	111.9
12.5°	121.4	120.3	121.4	122.6	123.8	123.8	125.0	126.2	126.2	127.4	127.4
15°	136.9	135.7	136.9	138.1	139.3	140.5	141.7	142.9	144.1	144.1	142.9
17.5°	153.6	152.4	153.6	154.8	156.0	157.2	159.5	160.7	160.7	160.7	160.7
20°	170.3	169.1	170.3	172.6	173.8	175.0	178.6	179.8	178.6	178.6	177.4
22.5°	189.3	188.1	189.3	191.7	195.3	196.5	198.8	200.0	198.8	198.8	197.6
25°	209.5	209.5	210.7	213.1	216.7	219.1	222.6	223.8	221.5	221.5	220.3
27.5°	232.2	232.2	233.4	236.9	239.3	242.9	247.6	247.6	246.5	245.3	244.1
30°	256.0	254.8	257.2	260.7	264.3	267.9	272.7	275.0	273.8	270.3	267.9
32.5°	279.8	278.6	281.0	285.7	290.5	294.1	298.8	300.0	298.8	295.3	292.9
35°	304.8	306.0	307.2	310.7	316.7	320.3	325.0	326.2	323.8	321.5	317.9
37.5°	329.8	329.8	332.2	335.8	341.7	345.3	350.0	351.2	350.0	345.3	342.9
40°	353.6	353.6	356.0	359.6	364.3	369.1	373.9	376.2	372.7	369.1	365.5
42.5°	376.2	376.2	378.6	381.0	385.8	391.7	396.5	398.9	396.5	390.5	386.9
45°	398.9	398.9	401.2	403.6	408.4	413.1	419.1	420.3	416.7	410.8	408.4
47.5°	419.1	419.1	421.5	423.9	428.6	434.6	439.3	440.5	437.0	431.0	427.4
50°	440.5	439.3	441.7	444.1	448.9	454.8	459.6	459.6	456.0	448.9	445.3
52.5°	458.4	459.6	459.6	462.0	466.7	471.5	477.4	478.6	473.9	465.5	463.1
55°	476.2	477.4	477.4	478.6	483.4	489.3	496.5	495.3	490.5	483.4	478.6
57.5°	494.1	494.1	495.3	495.3	498.9	506.0	513.2	512.0	507.2	498.9	495.3
60°	509.6	509.6	509.6	512.0	514.3	520.3	527.4	528.6	521.5	513.2	509.6
62.5°	525.1	525.1	525.1	526.3	528.6	534.6	542.9	542.9	534.6	526.3	522.7
65°	538.2	539.3	539.3	539.3	542.9	550.1	556.0	556.0	550.1	539.3	537.0
67.5°	552.4	552.4	551.3	551.3	554.8	560.8	569.1	569.1	562.0	551.3	548.9
70°	564.3	564.3	563.2	563.2	566.7	573.9	582.2	581.0	572.7	564.3	560.8
72.5°	575.1	576.3	573.9	573.9	577.4	584.6	592.9	591.7	583.4	573.9	571.5
75°	583.4	585.8	583.4	582.2	585.8	592.9	601.3	601.3	592.9	582.2	579.8
77.5°	592.9	594.1	591.7	591.7	594.1	602.4	609.6	609.6	602.4	591.7	588.2
80°	600.1	601.3	600.1	598.9	601.3	608.4	616.7	616.7	609.6	598.9	595.3
82.5°	606.0	606.0	604.8	604.8	607.2	614.4	621.5	621.5	614.4	604.8	602.4
85°	610.8	612.0	610.8	609.6	612.0	619.1	626.3	626.3	619.1	608.4	606.0
87.5°	613.2	614.4	613.2	613.2	614.4	621.5	628.6	627.5	621.5	610.8	608.4
90°	615.5	615.5	614.4	614.4	615.5	622.7	629.8	629.8	622.7	613.2	610.8
92.5°	615.5	616.7	615.5	615.5	616.7	621.5	628.6	629.8	622.7	613.2	610.8
95°	614.4	614.4	614.4	613.2	614.4	620.3	627.5	627.5	621.5	610.8	608.4
97.5°	612.0	612.0	610.8	610.8	612.0	617.9	623.9	623.9	617.9	608.4	606.0
100°	606.0	607.2	607.2	606.0	607.2	612.0	619.1	619.1	612.0	603.6	601.3
102.5°	601.3	600.1	600.1	600.1	600.1	604.8	612.0	610.8	604.8	596.5	594.1
105°	592.9	592.9	591.7	591.7	592.9	597.7	604.8	603.6	596.5	588.2	585.8
107.5°	583.4	583.4	582.2	582.2	583.4	588.2	595.3	594.1	587.0	578.6	576.3
110°	571.5	571.5	570.3	569.1	572.7	577.4	584.6	583.4	576.3	567.9	565.5



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

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	559.6	559.6	559.6	558.4	562.0	566.7	572.7	571.5	564.3	556.0	554.8
115°	546.5	546.5	545.3	545.3	550.1	554.8	560.8	558.4	551.3	544.1	541.7
117.5°	533.4	533.4	531.0	531.0	535.8	541.7	547.7	545.3	538.2	531.0	528.6
120°	519.1	519.1	516.7	516.7	522.7	528.6	534.6	532.2	525.1	516.7	515.5
122.5°	503.6	503.6	501.2	502.4	508.4	514.3	520.3	517.9	510.8	503.6	501.2
125°	487.0	487.0	485.8	487.0	492.9	498.9	504.8	502.4	495.3	489.3	485.8
127.5°	470.3	470.3	470.3	471.5	477.4	483.4	489.3	485.8	479.8	472.7	471.5
130°	453.6	453.6	452.4	454.8	460.8	466.7	471.5	470.3	463.1	457.2	454.8
132.5°	435.8	435.8	435.8	437.0	442.9	448.9	454.8	452.4	446.5	439.3	437.0
135°	416.7	416.7	417.9	419.1	425.0	431.0	435.8	433.4	428.6	421.5	417.9
137.5°	397.7	398.9	398.9	401.2	406.0	412.0	415.5	414.3	408.4	402.4	400.0
140°	378.6	378.6	379.8	382.2	386.9	391.7	394.1	392.9	389.3	383.4	379.8
142.5°	359.6	359.6	360.8	363.1	366.7	370.3	373.9	372.7	369.1	364.3	360.8
145°	340.5	340.5	341.7	344.1	347.7	350.0	353.6	352.4	348.8	344.1	340.5
147.5°	323.8	322.7	323.8	326.2	329.8	331.0	333.4	333.4	329.8	325.0	322.7
150°	306.0	306.0	307.2	308.4	310.7	313.1	314.3	314.3	310.7	306.0	303.6
152.5°	284.6	284.6	285.7	289.3	290.5	294.1	295.3	292.9	290.5	284.6	283.4
155°	267.9	267.9	267.9	270.3	271.5	272.7	273.8	272.7	270.3	266.7	265.5
157.5°	252.4	251.2	251.2	253.6	254.8	254.8	256.0	254.8	253.6	250.0	248.8
160°	235.7	235.7	235.7	236.9	236.9	239.3	239.3	238.1	235.7	234.6	232.2
162.5°	220.3	220.3	220.3	220.3	221.5	221.5	221.5	220.3	219.1	217.9	216.7
165°	204.8	204.8	204.8	204.8	204.8	206.0	206.0	204.8	203.6	202.4	202.4
167.5°	191.7	191.7	190.5	190.5	191.7	191.7	191.7	190.5	190.5	189.3	189.3
170°	178.6	179.8	179.8	178.6	178.6	178.6	178.6	178.6	178.6	177.4	177.4
172.5°	169.1	169.1	169.1	169.1	169.1	169.1	169.1	169.1	169.1	167.9	167.9
175°	161.9	161.9	161.9	160.7	161.9	161.9	161.9	160.7	160.7	160.7	160.7
177.5°	157.2	157.2	157.2	157.2	157.2	157.2	157.2	157.2	157.2	157.2	157.2
180°	156.0	156.0	156.0	156.0	156.0	156.0	156.0	156.0	156.0	156.0	156.0



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

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
2.5°	76.2	76.2	77.4	77.4	78.6	78.6	78.6	78.6	78.6	78.6
5°	82.2	82.2	83.3	83.3	83.3	84.5	84.5	84.5	84.5	84.5
7.5°	96.4	97.6	98.8	97.6	97.6	98.8	97.6	97.6	98.8	98.8
10°	110.7	111.9	113.1	113.1	113.1	113.1	113.1	113.1	113.1	111.9
12.5°	127.4	127.4	127.4	128.6	128.6	128.6	128.6	128.6	129.8	128.6
15°	142.9	142.9	142.9	144.1	144.1	144.1	144.1	145.3	146.4	145.3
17.5°	159.5	159.5	159.5	159.5	159.5	159.5	160.7	161.9	163.1	161.9
20°	177.4	177.4	176.2	176.2	176.2	176.2	177.4	178.6	178.6	178.6
22.5°	197.6	195.3	195.3	194.1	194.1	195.3	196.5	197.6	197.6	196.5
25°	219.1	216.7	214.3	215.5	214.3	215.5	216.7	217.9	217.9	216.7
27.5°	241.7	239.3	236.9	236.9	235.7	236.9	236.9	239.3	240.5	239.3
30°	265.5	263.1	259.6	259.6	258.4	258.4	260.7	261.9	263.1	261.9
32.5°	290.5	285.7	284.6	283.4	281.0	281.0	283.4	284.6	286.9	285.7
35°	316.7	313.1	308.4	306.0	306.0	307.2	308.4	309.6	313.1	311.9
37.5°	340.5	335.8	332.2	329.8	329.8	329.8	333.4	334.6	336.9	335.8
40°	363.1	358.4	354.8	352.4	352.4	352.4	356.0	357.2	360.8	360.8
42.5°	384.6	379.8	378.6	375.0	373.9	375.0	377.4	381.0	384.6	384.6
45°	404.8	401.2	398.9	396.5	395.3	396.5	398.9	403.6	407.2	406.0
47.5°	425.0	421.5	419.1	416.7	415.5	415.5	419.1	423.9	428.6	427.4
50°	444.1	440.5	438.1	437.0	435.8	435.8	439.3	444.1	450.1	448.9
52.5°	460.8	458.4	457.2	456.0	453.6	453.6	457.2	463.1	467.9	469.1
55°	477.4	475.1	475.1	472.7	471.5	471.5	475.1	481.0	485.8	487.0
57.5°	494.1	491.7	492.9	490.5	488.2	487.0	491.7	498.9	503.6	506.0
60°	508.4	507.2	507.2	506.0	503.6	502.4	507.2	514.3	520.3	521.5
62.5°	522.7	521.5	522.7	521.5	517.9	516.7	521.5	528.6	535.8	537.0
65°	535.8	534.6	538.2	535.8	532.2	531.0	535.8	544.1	551.3	552.4
67.5°	547.7	547.7	550.1	548.9	544.1	542.9	547.7	556.0	564.3	565.5
70°	559.6	560.8	564.3	562.0	557.2	556.0	559.6	569.1	577.4	578.6
72.5°	569.1	571.5	576.3	573.9	567.9	565.5	571.5	581.0	589.4	590.5
75°	579.8	581.0	584.6	583.4	578.6	575.1	581.0	590.5	598.9	600.1
77.5°	588.2	590.5	595.3	592.9	587.0	584.6	590.5	600.1	608.4	608.4
80°	595.3	598.9	602.4	601.3	595.3	591.7	597.7	607.2	615.5	615.5
82.5°	601.3	604.8	608.4	607.2	601.3	597.7	602.4	612.0	621.5	622.7
85°	606.0	609.6	614.4	613.2	606.0	602.4	607.2	617.9	625.1	626.3
87.5°	607.2	612.0	617.9	614.4	609.6	604.8	610.8	619.1	627.5	628.6
90°	609.6	614.4	619.1	616.7	610.8	607.2	612.0	620.3	629.8	631.0
92.5°	609.6	614.4	619.1	617.9	612.0	607.2	612.0	621.5	628.6	629.8
95°	608.4	613.2	617.9	616.7	609.6	606.0	610.8	619.1	627.5	627.5
97.5°	604.8	609.6	614.4	613.2	607.2	602.4	607.2	615.5	623.9	623.9
100°	600.1	604.8	610.8	609.6	602.4	598.9	602.4	612.0	619.1	619.1
102.5°	592.9	597.7	603.6	602.4	596.5	591.7	595.3	604.8	610.8	610.8
105°	585.8	589.4	595.3	594.1	588.2	583.4	588.2	596.5	603.6	604.8
107.5°	576.3	579.8	585.8	585.8	579.8	575.1	578.6	588.2	594.1	595.3
110°	565.5	569.1	573.9	573.9	569.1	564.3	567.9	576.3	584.6	584.6



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

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	553.6	557.2	562.0	562.0	556.0	552.4	556.0	565.5	572.7	572.7
115°	541.7	544.1	548.9	548.9	544.1	540.5	545.3	553.6	560.8	560.8
117.5°	528.6	531.0	534.6	535.8	531.0	527.4	532.2	539.3	547.7	547.7
120°	514.3	516.7	520.3	520.3	516.7	514.3	517.9	526.3	533.4	534.6
122.5°	501.2	502.4	504.8	504.8	501.2	500.1	503.6	513.2	519.1	520.3
125°	485.8	485.8	489.3	488.2	485.8	484.6	489.3	496.5	503.6	503.6
127.5°	470.3	470.3	471.5	471.5	469.1	467.9	473.9	481.0	487.0	488.2
130°	453.6	452.4	453.6	453.6	452.4	452.4	457.2	464.3	470.3	471.5
132.5°	435.8	434.6	434.6	434.6	434.6	434.6	439.3	446.5	452.4	453.6
135°	416.7	415.5	415.5	415.5	414.3	416.7	421.5	427.4	433.4	434.6
137.5°	398.9	396.5	396.5	395.3	396.5	398.9	402.4	408.4	414.3	414.3
140°	378.6	375.0	375.0	375.0	377.4	379.8	383.4	389.3	394.1	395.3
142.5°	359.6	356.0	354.8	356.0	357.2	359.6	364.3	370.3	373.9	373.9
145°	339.3	335.8	334.6	335.8	338.1	341.7	345.3	350.0	353.6	353.6
147.5°	321.5	317.9	316.7	316.7	320.3	323.8	327.4	332.2	334.6	334.6
150°	302.4	298.8	297.7	298.8	302.4	304.8	309.6	313.1	315.5	315.5
152.5°	282.2	278.6	277.4	278.6	281.0	284.6	289.3	292.9	296.5	295.3
155°	264.3	260.7	259.6	260.7	263.1	266.7	269.1	272.7	275.0	273.8
157.5°	247.6	245.3	244.1	245.3	247.6	250.0	252.4	254.8	257.2	256.0
160°	232.2	229.8	229.8	229.8	231.0	234.6	235.7	238.1	239.3	239.3
162.5°	216.7	214.3	214.3	215.5	216.7	219.1	220.3	221.5	221.5	221.5
165°	202.4	200.0	200.0	201.2	201.2	203.6	203.6	204.8	206.0	204.8
167.5°	189.3	188.1	186.9	188.1	189.3	190.5	190.5	190.5	191.7	190.5
170°	177.4	177.4	176.2	176.2	177.4	178.6	178.6	178.6	178.6	178.6
172.5°	167.9	167.9	167.9	167.9	169.1	169.1	169.1	169.1	169.1	169.1
175°	160.7	160.7	160.7	160.7	161.9	161.9	161.9	161.9	161.9	161.9
177.5°	157.2	157.2	157.2	157.2	157.2	157.2	157.2	157.2	157.2	157.2
180°	156.0	156.0	156.0	156.0	156.0	156.0	156.0	156.0	156.0	156.0

(END OF REPORT)