

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: P256814

Luminaire Tested: **ULA-A3-D-U-SYM-VMx-BK**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256814
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-A3-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: 3295.4 lumens
Efficiency: N/A
Efficacy: 156.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 2.17')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B1 - U5 - G2

Input Watts (W): 21.1
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



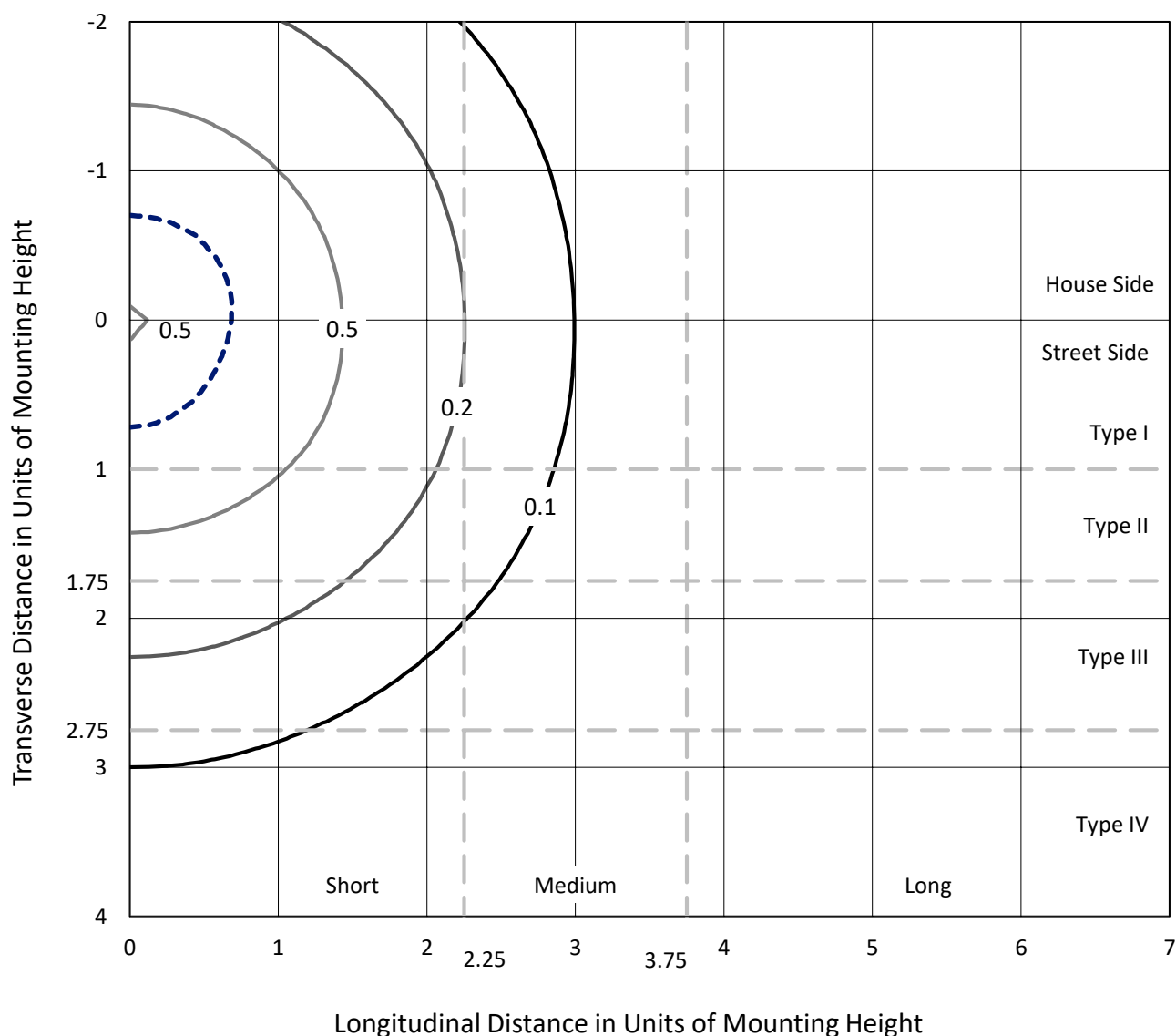
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

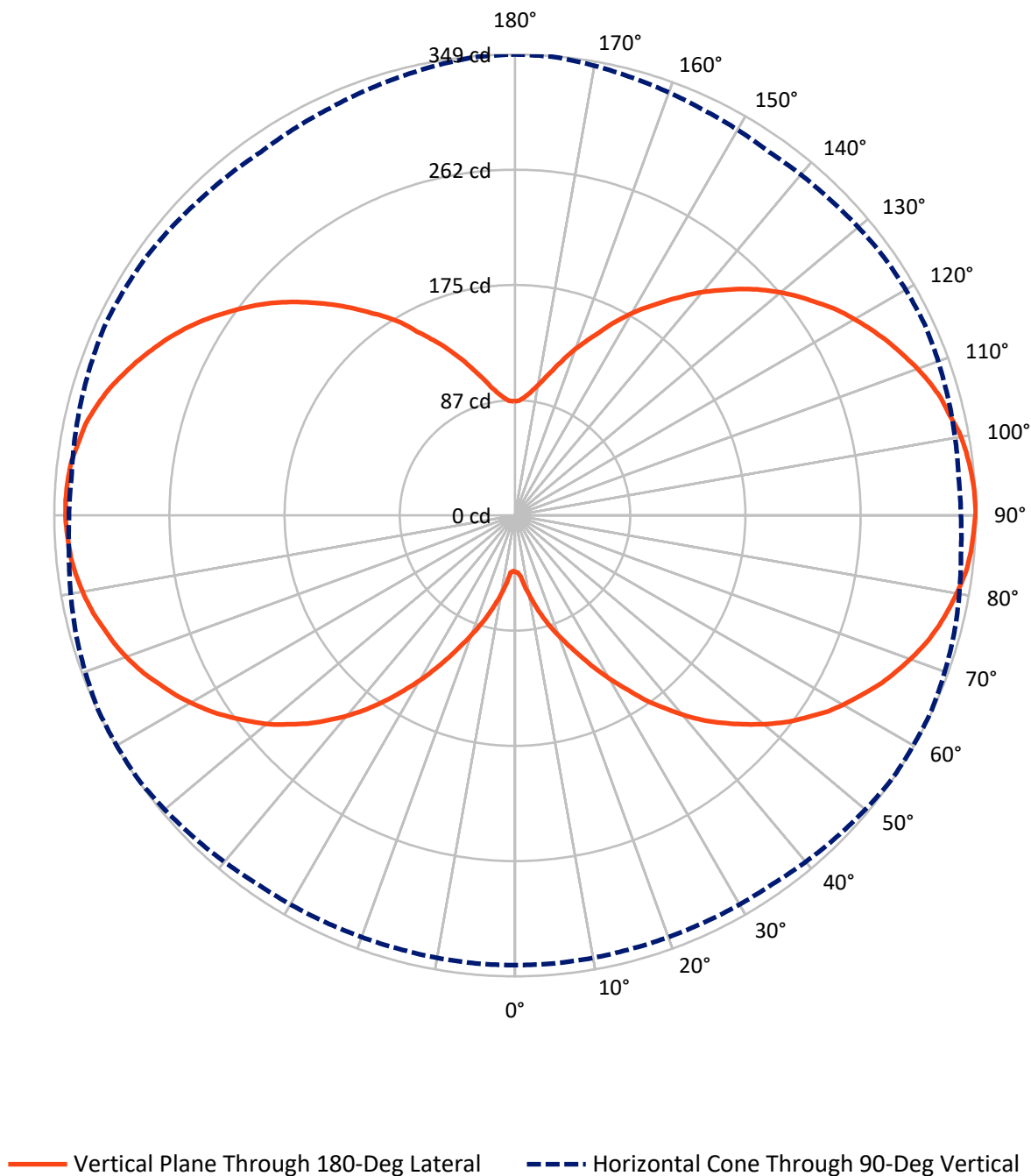
--- 1/2 Max cd



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Luminous Intensity Polar Plot



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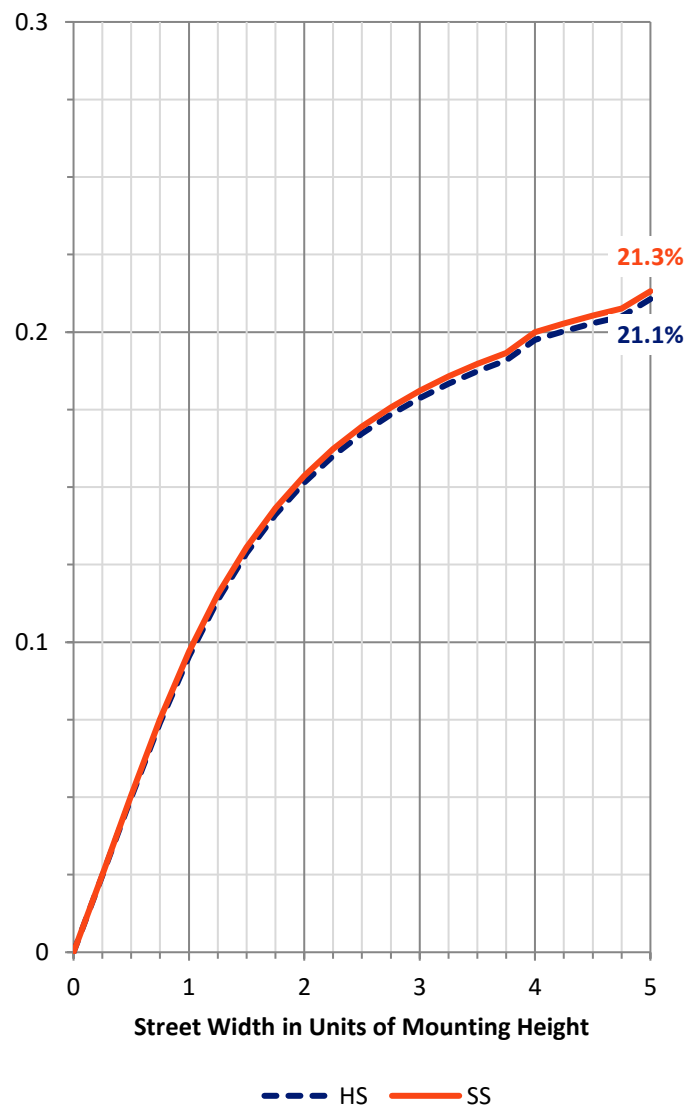
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	803.3	835.5	1638.8
	% Fixture	24.4	25.4	49.7
Street Side	Lumens	814.2	842.4	1656.6
	% Fixture	24.7	25.6	50.3
Total	Lumens	1617.5	1677.9	3295.4
	% Fixture	49.1	50.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.9	0.1
10°-20°	22.9	0.7
20°-30°	56.6	1.7
30°-40°	109.6	3.3
40°-50°	173.9	5.3
50°-60°	239.0	7.3
60°-70°	297.4	9.0
70°-80°	343.5	10.4
80°-90°	369.9	11.2
90°-100°	371.6	11.3
100°-110°	347.2	10.5
110°-120°	301.7	9.2
120°-130°	244.4	7.4
130°-140°	181.5	5.5
140°-150°	120.5	3.7
150°-160°	69.6	2.1
160°-170°	32.6	1.0
170°-180°	8.8	0.3
0°-90°	1617.5	49.1
0°-180°	3295.4	100.0

Coefficient of Utilization



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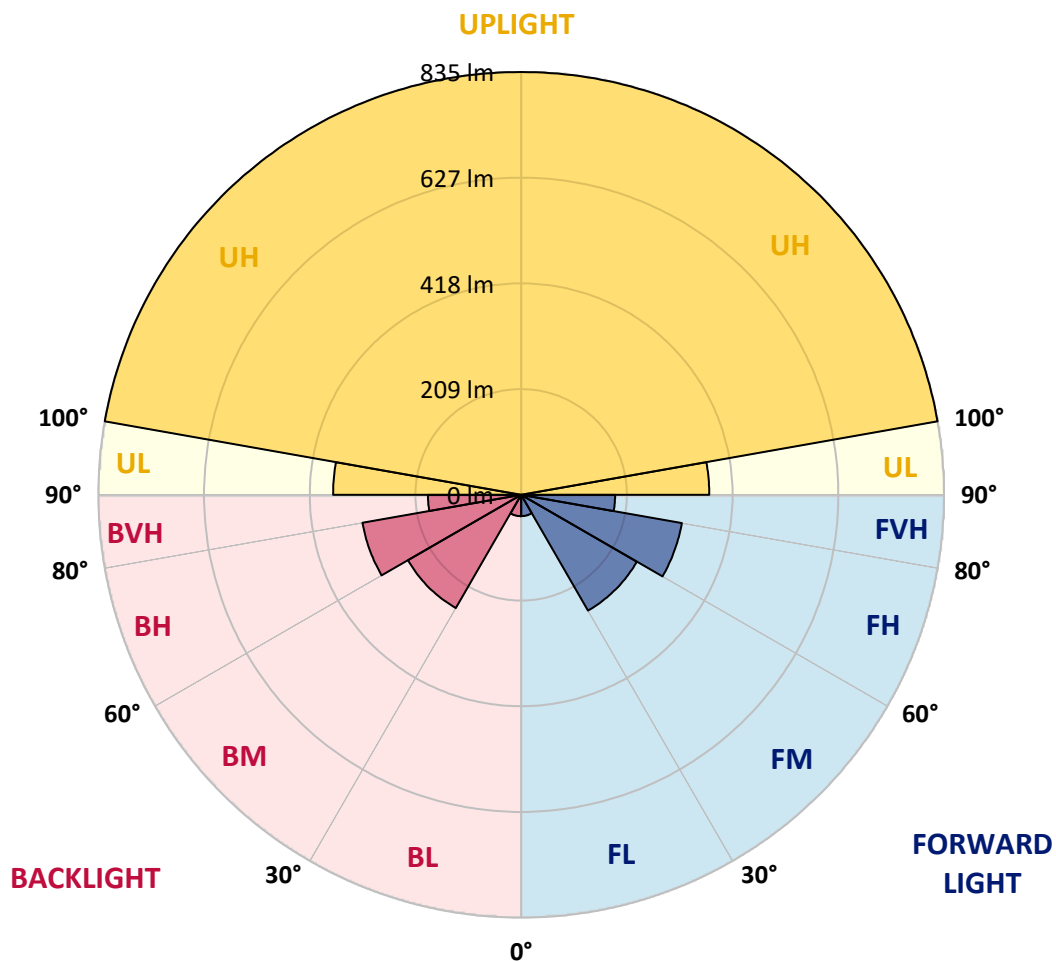
CATALOG NUMBER: ULA-A3-D-U-SYM-VMx-BK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	42.1	1.3			
FM	(30°-60°)	264.1	8.0			
FH	(60°-80°)	322.4	9.8			G0/660
FVH	(80°-90°)	185.6	5.6			G2/225
BL	(0°-30°)	42.3	1.3	B0/110		
BM	(30°-60°)	258.4	7.8	B1/1000		
BH	(60°-80°)	318.4	9.7	B1/500		G0/660
BVH	(80°-90°)	184.2	5.6			G2/225
UL	(90°-100°)	371.6	11.3		U3/500	
UH	(100°-180°)	835.5	25.4		U4/1000	

BUG Rating: B1-U5-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
2.5°	42.2	42.2	42.2	41.5	41.5	41.5	41.5	41.5	41.5	42.2	42.2
5°	43.5	43.5	43.5	43.5	43.5	43.5	43.5	44.2	44.8	44.8	45.5
7.5°	51.4	50.8	50.8	50.8	50.8	50.8	50.8	51.4	52.1	52.7	52.7
10°	59.3	58.7	58.7	59.3	59.3	60.0	59.3	60.7	60.7	61.3	62.0
12.5°	67.2	66.6	67.2	67.9	68.6	68.6	69.2	69.9	69.9	70.5	70.5
15°	75.8	75.2	75.8	76.5	77.1	77.8	78.5	79.1	79.8	79.8	79.1
17.5°	85.1	84.4	85.1	85.7	86.4	87.0	88.3	89.0	89.0	89.0	89.0
20°	94.3	93.6	94.3	95.6	96.3	96.9	98.9	99.6	98.9	98.9	98.2
22.5°	104.8	104.2	104.8	106.1	108.1	108.8	110.1	110.8	110.1	110.1	109.4
25°	116.0	116.0	116.7	118.0	120.0	121.3	123.3	123.9	122.6	122.6	122.0
27.5°	128.6	128.6	129.2	131.2	132.5	134.5	137.1	137.1	136.5	135.8	135.2
30°	141.8	141.1	142.4	144.4	146.4	148.3	151.0	152.3	151.6	149.7	148.3
32.5°	154.9	154.3	155.6	158.2	160.9	162.8	165.5	166.1	165.5	163.5	162.2
35°	168.8	169.4	170.1	172.1	175.4	177.4	180.0	180.7	179.3	178.0	176.0
37.5°	182.6	182.6	183.9	185.9	189.2	191.2	193.8	194.5	193.8	191.2	189.9
40°	195.8	195.8	197.1	199.1	201.7	204.4	207.0	208.3	206.4	204.4	202.4
42.5°	208.3	208.3	209.7	211.0	213.6	216.9	219.5	220.9	219.5	216.3	214.3
45°	220.9	220.9	222.2	223.5	226.1	228.8	232.1	232.7	230.8	227.5	226.1
47.5°	232.1	232.1	233.4	234.7	237.4	240.6	243.3	243.9	242.0	238.7	236.7
50°	243.9	243.3	244.6	245.9	248.6	251.9	254.5	254.5	252.5	248.6	246.6
52.5°	253.8	254.5	254.5	255.8	258.4	261.1	264.4	265.0	262.4	257.8	256.5
55°	263.7	264.4	264.4	265.0	267.7	271.0	274.9	274.3	271.6	267.7	265.0
57.5°	273.6	273.6	274.3	274.3	276.3	280.2	284.2	283.5	280.9	276.3	274.3
60°	282.2	282.2	282.2	283.5	284.8	288.1	292.1	292.7	288.8	284.2	282.2
62.5°	290.8	290.8	290.8	291.4	292.7	296.0	300.6	300.6	296.0	291.4	289.4
65°	298.0	298.7	298.7	298.7	300.6	304.6	307.9	307.9	304.6	298.7	297.3
67.5°	305.9	305.9	305.3	305.3	307.2	310.5	315.1	315.1	311.2	305.3	303.9
70°	312.5	312.5	311.9	311.9	313.8	317.8	322.4	321.7	317.1	312.5	310.5
72.5°	318.4	319.1	317.8	317.8	319.8	323.7	328.3	327.7	323.1	317.8	316.5
75°	323.1	324.4	323.1	322.4	324.4	328.3	333.0	333.0	328.3	322.4	321.1
77.5°	328.3	329.0	327.7	327.7	329.0	333.6	337.6	337.6	333.6	327.7	325.7
80°	332.3	333.0	332.3	331.6	333.0	336.9	341.5	341.5	337.6	331.6	329.7
82.5°	335.6	335.6	334.9	334.9	336.2	340.2	344.2	344.2	340.2	334.9	333.6
85°	338.2	338.9	338.2	337.6	338.9	342.8	346.8	346.8	342.8	336.9	335.6
87.5°	339.5	340.2	339.5	339.5	340.2	344.2	348.1	347.5	344.2	338.2	336.9
90°	340.9	340.9	340.2	340.2	340.9	344.8	348.8	348.8	344.8	339.5	338.2
92.5°	340.9	341.5	340.9	340.9	341.5	344.2	348.1	348.8	344.8	339.5	338.2
95°	340.2	340.2	340.2	339.5	340.2	343.5	347.5	347.5	344.2	338.2	336.9
97.5°	338.9	338.9	338.2	338.2	338.9	342.2	345.5	345.5	342.2	336.9	335.6
100°	335.6	336.2	336.2	335.6	336.2	338.9	342.8	342.8	338.9	334.3	333.0
102.5°	333.0	332.3	332.3	332.3	332.3	334.9	338.9	338.2	334.9	330.3	329.0
105°	328.3	328.3	327.7	327.7	328.3	331.0	334.9	334.3	330.3	325.7	324.4
107.5°	323.1	323.1	322.4	322.4	323.1	325.7	329.7	329.0	325.0	320.4	319.1
110°	316.5	316.5	315.8	315.1	317.1	319.8	323.7	323.1	319.1	314.5	313.2



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CATALOG NUMBER: ULA-A3-D-U-SYM-VMx-BK

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	309.9	309.9	309.9	309.2	311.2	313.8	317.1	316.5	312.5	307.9	307.2
115°	302.6	302.6	302.0	302.0	304.6	307.2	310.5	309.2	305.3	301.3	300.0
117.5°	295.4	295.4	294.1	294.1	296.7	300.0	303.3	302.0	298.0	294.1	292.7
120°	287.5	287.5	286.1	286.1	289.4	292.7	296.0	294.7	290.8	286.1	285.5
122.5°	278.9	278.9	277.6	278.2	281.5	284.8	288.1	286.8	282.8	278.9	277.6
125°	269.7	269.7	269.0	269.7	273.0	276.3	279.5	278.2	274.3	271.0	269.0
127.5°	260.4	260.4	260.4	261.1	264.4	267.7	271.0	269.0	265.7	261.7	261.1
130°	251.2	251.2	250.5	251.9	255.2	258.4	261.1	260.4	256.5	253.2	251.9
132.5°	241.3	241.3	241.3	242.0	245.3	248.6	251.9	250.5	247.2	243.3	242.0
135°	230.8	230.8	231.4	232.1	235.4	238.7	241.3	240.0	237.4	233.4	231.4
137.5°	220.2	220.9	220.9	222.2	224.8	228.1	230.1	229.4	226.1	222.8	221.5
140°	209.7	209.7	210.3	211.6	214.3	216.9	218.2	217.6	215.6	212.3	210.3
142.5°	199.1	199.1	199.8	201.1	203.1	205.0	207.0	206.4	204.4	201.7	199.8
145°	188.6	188.6	189.2	190.5	192.5	193.8	195.8	195.2	193.2	190.5	188.6
147.5°	179.3	178.7	179.3	180.7	182.6	183.3	184.6	184.6	182.6	180.0	178.7
150°	169.4	169.4	170.1	170.8	172.1	173.4	174.1	174.1	172.1	169.4	168.1
152.5°	157.6	157.6	158.2	160.2	160.9	162.8	163.5	162.2	160.9	157.6	156.9
155°	148.3	148.3	148.3	149.7	150.3	151.0	151.6	151.0	149.7	147.7	147.0
157.5°	139.8	139.1	139.1	140.4	141.1	141.1	141.8	141.1	140.4	138.5	137.8
160°	130.5	130.5	130.5	131.2	131.2	132.5	132.5	131.9	130.5	129.9	128.6
162.5°	122.0	122.0	122.0	122.0	122.6	122.6	122.6	122.0	121.3	120.7	120.0
165°	113.4	113.4	113.4	113.4	113.4	114.1	114.1	113.4	112.7	112.1	112.1
167.5°	106.1	106.1	105.5	105.5	106.1	106.1	106.1	105.5	105.5	104.8	104.8
170°	98.9	99.6	99.6	98.9	98.9	98.9	98.9	98.9	98.9	98.2	98.2
172.5°	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.0	93.0
175°	89.7	89.7	89.7	89.0	89.7	89.7	89.7	89.0	89.0	89.0	89.0
177.5°	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
180°	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
2.5°	42.2	42.2	42.9	42.9	43.5	43.5	43.5	43.5	43.5	43.5
5°	45.5	45.5	46.2	46.2	46.2	46.8	46.8	46.8	46.8	46.8
7.5°	53.4	54.1	54.7	54.1	54.1	54.7	54.1	54.1	54.7	54.7
10°	61.3	62.0	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.0
12.5°	70.5	70.5	70.5	71.2	71.2	71.2	71.2	71.2	71.9	71.2
15°	79.1	79.1	79.1	79.8	79.8	79.8	79.8	80.4	81.1	80.4
17.5°	88.3	88.3	88.3	88.3	88.3	88.3	89.0	89.7	90.3	89.7
20°	98.2	98.2	97.6	97.6	97.6	97.6	98.2	98.9	98.9	98.9
22.5°	109.4	108.1	108.1	107.5	107.5	108.1	108.8	109.4	109.4	108.8
25°	121.3	120.0	118.7	119.3	118.7	119.3	120.0	120.7	120.7	120.0
27.5°	133.8	132.5	131.2	131.2	130.5	131.2	131.2	132.5	133.2	132.5
30°	147.0	145.7	143.7	143.7	143.1	143.1	144.4	145.0	145.7	145.0
32.5°	160.9	158.2	157.6	156.9	155.6	155.6	156.9	157.6	158.9	158.2
35°	175.4	173.4	170.8	169.4	169.4	170.1	170.8	171.4	173.4	172.7
37.5°	188.6	185.9	183.9	182.6	182.6	182.6	184.6	185.3	186.6	185.9
40°	201.1	198.5	196.5	195.2	195.2	195.2	197.1	197.8	199.8	199.8
42.5°	213.0	210.3	209.7	207.7	207.0	207.7	209.0	211.0	213.0	213.0
45°	224.2	222.2	220.9	219.5	218.9	219.5	220.9	223.5	225.5	224.8
47.5°	235.4	233.4	232.1	230.8	230.1	230.1	232.1	234.7	237.4	236.7
50°	245.9	243.9	242.6	242.0	241.3	241.3	243.3	245.9	249.2	248.6
52.5°	255.2	253.8	253.2	252.5	251.2	251.2	253.2	256.5	259.1	259.8
55°	264.4	263.1	263.1	261.7	261.1	261.1	263.1	266.4	269.0	269.7
57.5°	273.6	272.3	273.0	271.6	270.3	269.7	272.3	276.3	278.9	280.2
60°	281.5	280.9	280.9	280.2	278.9	278.2	280.9	284.8	288.1	288.8
62.5°	289.4	288.8	289.4	288.8	286.8	286.1	288.8	292.7	296.7	297.3
65°	296.7	296.0	298.0	296.7	294.7	294.1	296.7	301.3	305.3	305.9
67.5°	303.3	303.3	304.6	303.9	301.3	300.6	303.3	307.9	312.5	313.2
70°	309.9	310.5	312.5	311.2	308.6	307.9	309.9	315.1	319.8	320.4
72.5°	315.1	316.5	319.1	317.8	314.5	313.2	316.5	321.7	326.4	327.0
75°	321.1	321.7	323.7	323.1	320.4	318.4	321.7	327.0	331.6	332.3
77.5°	325.7	327.0	329.7	328.3	325.0	323.7	327.0	332.3	336.9	336.9
80°	329.7	331.6	333.6	333.0	329.7	327.7	331.0	336.2	340.9	340.9
82.5°	333.0	334.9	336.9	336.2	333.0	331.0	333.6	338.9	344.2	344.8
85°	335.6	337.6	340.2	339.5	335.6	333.6	336.2	342.2	346.1	346.8
87.5°	336.2	338.9	342.2	340.2	337.6	334.9	338.2	342.8	347.5	348.1
90°	337.6	340.2	342.8	341.5	338.2	336.2	338.9	343.5	348.8	349.4
92.5°	337.6	340.2	342.8	342.2	338.9	336.2	338.9	344.2	348.1	348.8
95°	336.9	339.5	342.2	341.5	337.6	335.6	338.2	342.8	347.5	347.5
97.5°	334.9	337.6	340.2	339.5	336.2	333.6	336.2	340.9	345.5	345.5
100°	332.3	334.9	338.2	337.6	333.6	331.6	333.6	338.9	342.8	342.8
102.5°	328.3	331.0	334.3	333.6	330.3	327.7	329.7	334.9	338.2	338.2
105°	324.4	326.4	329.7	329.0	325.7	323.1	325.7	330.3	334.3	334.9
107.5°	319.1	321.1	324.4	324.4	321.1	318.4	320.4	325.7	329.0	329.7
110°	313.2	315.1	317.8	317.8	315.1	312.5	314.5	319.1	323.7	323.7



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	306.6	308.6	311.2	311.2	307.9	305.9	307.9	313.2	317.1	317.1
115°	300.0	301.3	303.9	303.9	301.3	299.3	302.0	306.6	310.5	310.5
117.5°	292.7	294.1	296.0	296.7	294.1	292.1	294.7	298.7	303.3	303.3
120°	284.8	286.1	288.1	288.1	286.1	284.8	286.8	291.4	295.4	296.0
122.5°	277.6	278.2	279.5	279.5	277.6	276.9	278.9	284.2	287.5	288.1
125°	269.0	269.0	271.0	270.3	269.0	268.3	271.0	274.9	278.9	278.9
127.5°	260.4	260.4	261.1	261.1	259.8	259.1	262.4	266.4	269.7	270.3
130°	251.2	250.5	251.2	251.2	250.5	250.5	253.2	257.1	260.4	261.1
132.5°	241.3	240.6	240.6	240.6	240.6	240.6	243.3	247.2	250.5	251.2
135°	230.8	230.1	230.1	230.1	229.4	230.8	233.4	236.7	240.0	240.6
137.5°	220.9	219.5	219.5	218.9	219.5	220.9	222.8	226.1	229.4	229.4
140°	209.7	207.7	207.7	207.7	209.0	210.3	212.3	215.6	218.2	218.9
142.5°	199.1	197.1	196.5	197.1	197.8	199.1	201.7	205.0	207.0	207.0
145°	187.9	185.9	185.3	185.9	187.2	189.2	191.2	193.8	195.8	195.8
147.5°	178.0	176.0	175.4	175.4	177.4	179.3	181.3	183.9	185.3	185.3
150°	167.5	165.5	164.8	165.5	167.5	168.8	171.4	173.4	174.7	174.7
152.5°	156.3	154.3	153.6	154.3	155.6	157.6	160.2	162.2	164.2	163.5
155°	146.4	144.4	143.7	144.4	145.7	147.7	149.0	151.0	152.3	151.6
157.5°	137.1	135.8	135.2	135.8	137.1	138.5	139.8	141.1	142.4	141.8
160°	128.6	127.2	127.2	127.2	127.9	129.9	130.5	131.9	132.5	132.5
162.5°	120.0	118.7	118.7	119.3	120.0	121.3	122.0	122.6	122.6	122.6
165°	112.1	110.8	110.8	111.4	111.4	112.7	112.7	113.4	114.1	113.4
167.5°	104.8	104.2	103.5	104.2	104.8	105.5	105.5	105.5	106.1	105.5
170°	98.2	98.2	97.6	97.6	98.2	98.9	98.9	98.9	98.9	98.9
172.5°	93.0	93.0	93.0	93.0	93.6	93.6	93.6	93.6	93.6	93.6
175°	89.0	89.0	89.0	89.0	89.7	89.7	89.7	89.7	89.7	89.7
177.5°	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
180°	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4

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