

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: P256812

Luminaire Tested: **ULA-A3-D-U-SYM-VMx-7027-BK**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256812
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-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: 3024 lumens
Efficiency: N/A
Efficacy: 143.3 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



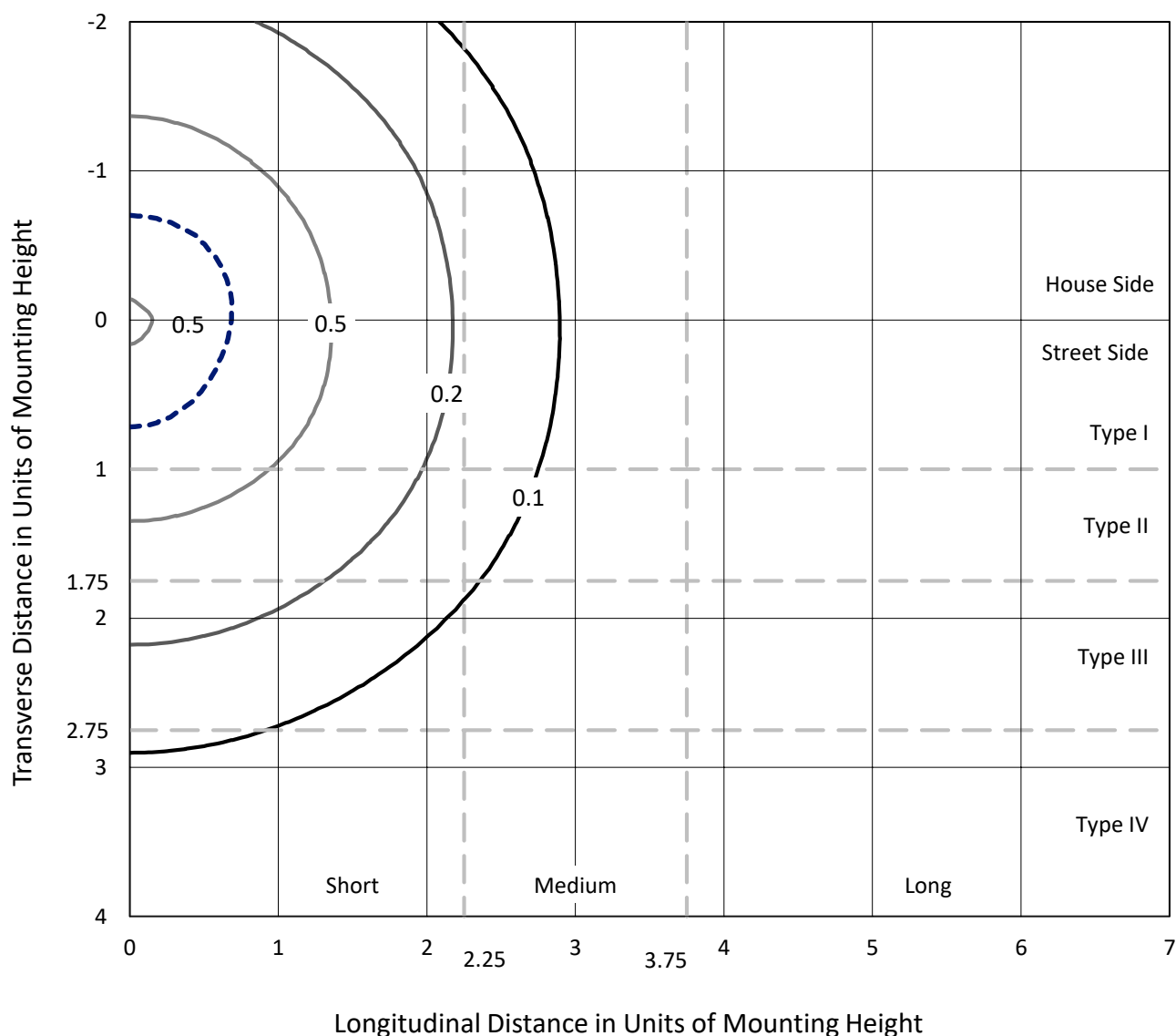
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

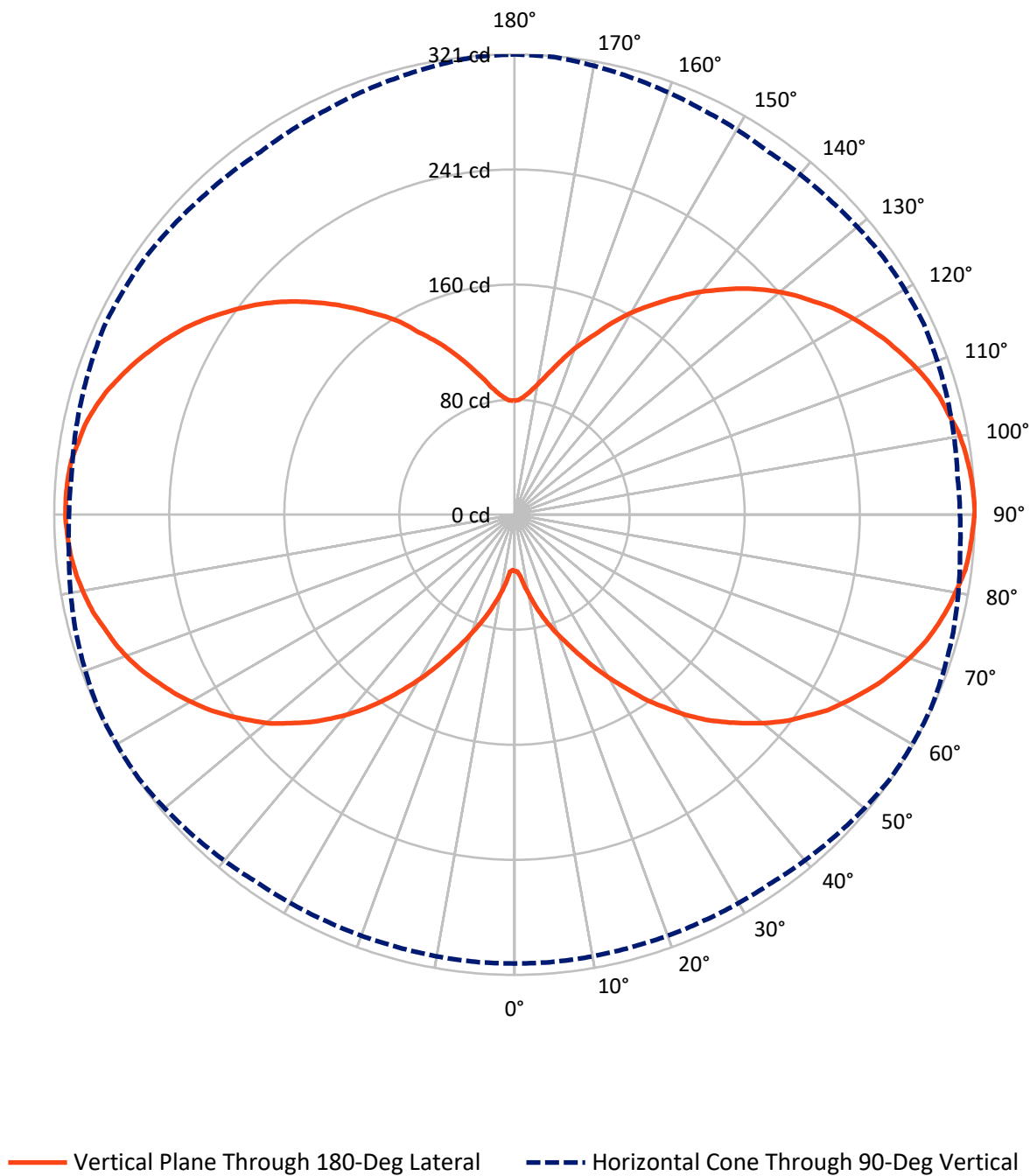


Based on 10 foot mounting height. Maximum calculated value = 0.9 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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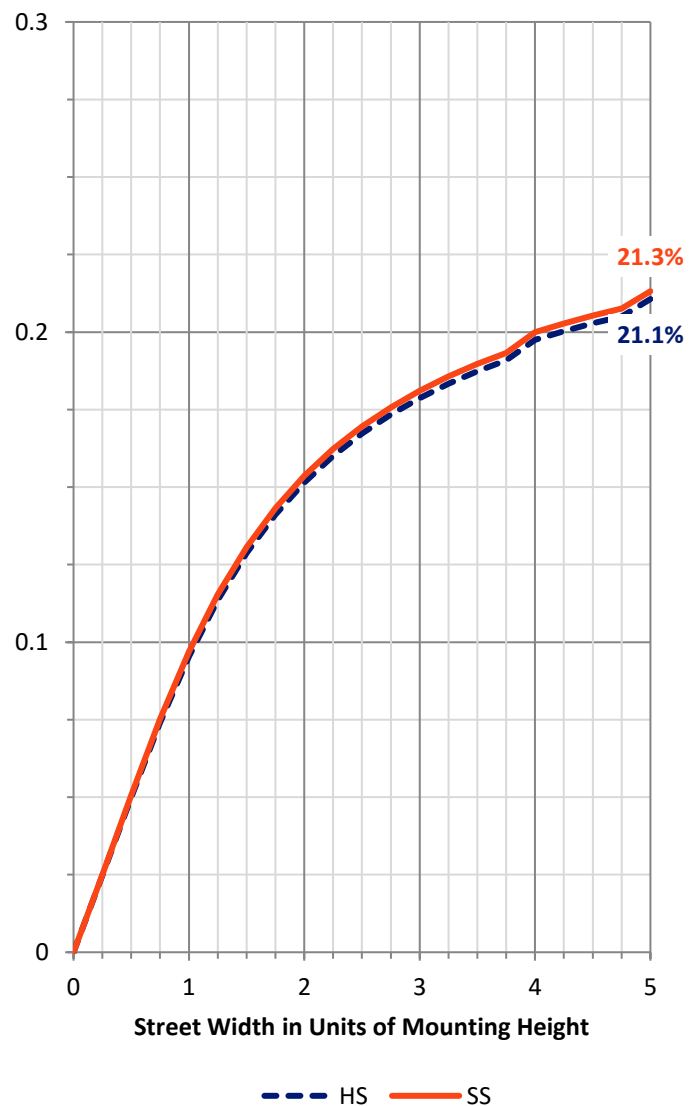
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	737.2	766.7	1503.9
	% Fixture	24.4	25.4	49.7
Street Side	Lumens	747.1	773.0	1520.1
	% Fixture	24.7	25.6	50.3
Total	Lumens	1484.3	1539.7	3024.0
	% Fixture	49.1	50.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.5	0.1
10°-20°	21.0	0.7
20°-30°	51.9	1.7
30°-40°	100.5	3.3
40°-50°	159.6	5.3
50°-60°	219.3	7.3
60°-70°	272.9	9.0
70°-80°	315.2	10.4
80°-90°	339.4	11.2
90°-100°	341.0	11.3
100°-110°	318.6	10.5
110°-120°	276.8	9.2
120°-130°	224.3	7.4
130°-140°	166.5	5.5
140°-150°	110.6	3.7
150°-160°	63.9	2.1
160°-170°	29.9	1.0
170°-180°	8.1	0.3
0°-90°	1484.3	49.1
0°-180°	3024.0	100.0

Coefficient of Utilization



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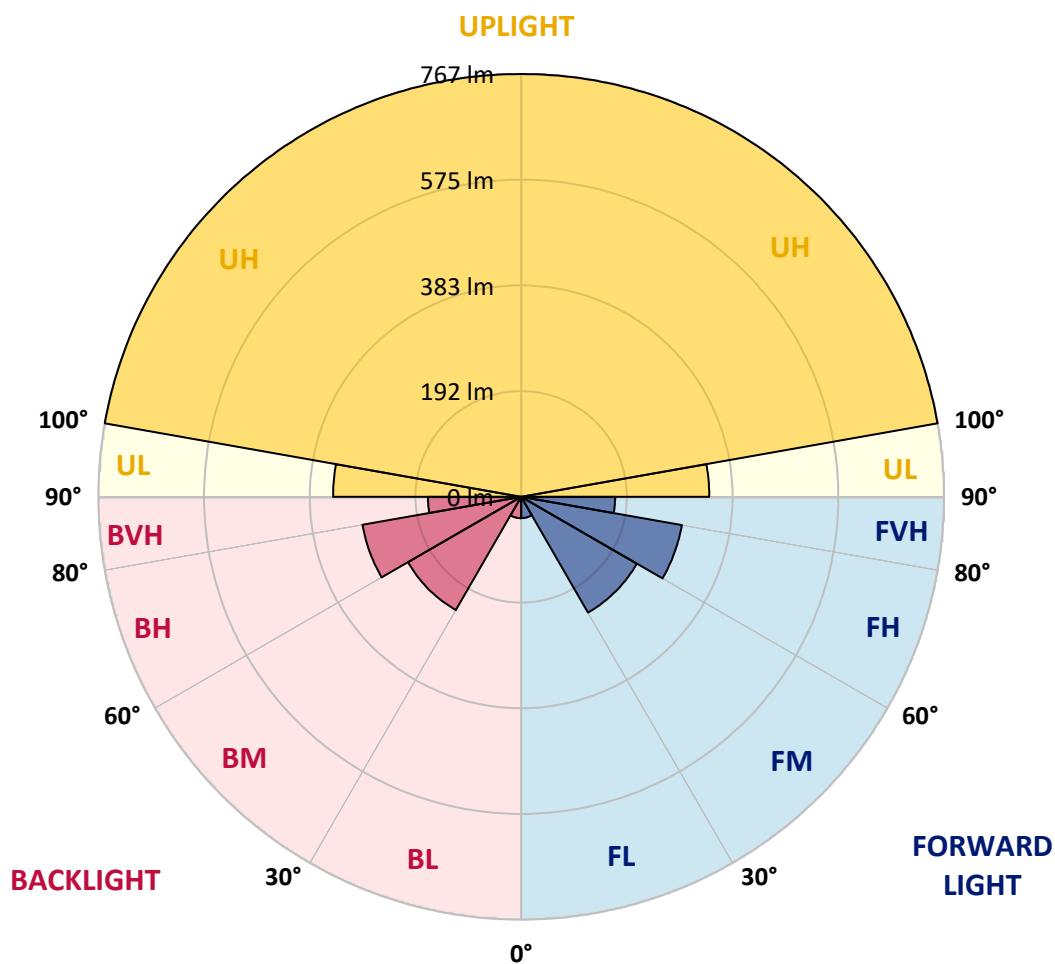
CATALOG NUMBER: ULA-A3-D-U-SYM-VMx-7027-BK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	38.6	1.3			
FM	(30°-60°)	242.3	8.0			
FH	(60°-80°)	295.9	9.8			G0/660
FVH	(80°-90°)	170.3	5.6			G2/225
BL	(0°-30°)	38.8	1.3	B0/110		
BM	(30°-60°)	237.1	7.8	B1/1000		
BH	(60°-80°)	292.2	9.7	B1/500		G0/660
BVH	(80°-90°)	169.1	5.6			G2/225
UL	(90°-100°)	341.0	11.3		U3/500	
UH	(100°-180°)	766.7	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°	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3
2.5°	38.7	38.7	38.7	38.1	38.1	38.1	38.1	38.1	38.1	38.7	38.7
5°	39.9	39.9	39.9	39.9	39.9	39.9	39.9	40.5	41.1	41.1	41.7
7.5°	47.2	46.6	46.6	46.6	46.6	46.6	46.6	47.2	47.8	48.4	48.4
10°	54.5	53.8	53.8	54.5	54.5	55.1	54.5	55.7	55.7	56.3	56.9
12.5°	61.7	61.1	61.7	62.3	62.9	62.9	63.5	64.1	64.1	64.7	64.7
15°	69.6	69.0	69.6	70.2	70.8	71.4	72.0	72.6	73.2	73.2	72.6
17.5°	78.0	77.4	78.0	78.7	79.3	79.9	81.1	81.7	81.7	81.7	81.7
20°	86.5	85.9	86.5	87.7	88.3	88.9	90.8	91.4	90.8	90.8	90.1
22.5°	96.2	95.6	96.2	97.4	99.2	99.8	101.0	101.6	101.0	101.0	100.4
25°	106.5	106.5	107.1	108.3	110.1	111.3	113.1	113.7	112.5	112.5	111.9
27.5°	118.0	118.0	118.6	120.4	121.6	123.4	125.8	125.8	125.2	124.6	124.0
30°	130.1	129.5	130.7	132.5	134.3	136.1	138.5	139.8	139.2	137.3	136.1
32.5°	142.2	141.6	142.8	145.2	147.6	149.4	151.9	152.5	151.9	150.0	148.8
35°	154.9	155.5	156.1	157.9	160.9	162.7	165.2	165.8	164.6	163.4	161.5
37.5°	167.6	167.6	168.8	170.6	173.6	175.5	177.9	178.5	177.9	175.5	174.2
40°	179.7	179.7	180.9	182.7	185.1	187.6	190.0	191.2	189.4	187.6	185.7
42.5°	191.2	191.2	192.4	193.6	196.0	199.0	201.5	202.7	201.5	198.4	196.6
45°	202.7	202.7	203.9	205.1	207.5	209.9	213.0	213.6	211.8	208.7	207.5
47.5°	213.0	213.0	214.2	215.4	217.8	220.8	223.2	223.9	222.0	219.0	217.2
50°	223.9	223.2	224.5	225.7	228.1	231.1	233.5	233.5	231.7	228.1	226.3
52.5°	232.9	233.5	233.5	234.7	237.2	239.6	242.6	243.2	240.8	236.6	235.3
55°	242.0	242.6	242.6	243.2	245.6	248.7	252.3	251.7	249.3	245.6	243.2
57.5°	251.1	251.1	251.7	251.7	253.5	257.1	260.8	260.2	257.7	253.5	251.7
60°	258.9	258.9	258.9	260.2	261.4	264.4	268.0	268.6	265.0	260.8	258.9
62.5°	266.8	266.8	266.8	267.4	268.6	271.6	275.9	275.9	271.6	267.4	265.6
65°	273.5	274.1	274.1	274.1	275.9	279.5	282.5	282.5	279.5	274.1	272.9
67.5°	280.7	280.7	280.1	280.1	281.9	285.0	289.2	289.2	285.6	280.1	278.9
70°	286.8	286.8	286.2	286.2	288.0	291.6	295.8	295.2	291.0	286.8	285.0
72.5°	292.2	292.8	291.6	291.6	293.4	297.1	301.3	300.7	296.5	291.6	290.4
75°	296.5	297.7	296.5	295.8	297.7	301.3	305.5	305.5	301.3	295.8	294.6
77.5°	301.3	301.9	300.7	300.7	301.9	306.1	309.8	309.8	306.1	300.7	298.9
80°	304.9	305.5	304.9	304.3	305.5	309.2	313.4	313.4	309.8	304.3	302.5
82.5°	307.9	307.9	307.3	307.3	308.6	312.2	315.8	315.8	312.2	307.3	306.1
85°	310.4	311.0	310.4	309.8	311.0	314.6	318.2	318.2	314.6	309.2	307.9
87.5°	311.6	312.2	311.6	311.6	312.2	315.8	319.4	318.8	315.8	310.4	309.2
90°	312.8	312.8	312.2	312.2	312.8	316.4	320.0	320.0	316.4	311.6	310.4
92.5°	312.8	313.4	312.8	312.8	313.4	315.8	319.4	320.0	316.4	311.6	310.4
95°	312.2	312.2	312.2	311.6	312.2	315.2	318.8	318.8	315.8	310.4	309.2
97.5°	311.0	311.0	310.4	310.4	311.0	314.0	317.0	317.0	314.0	309.2	307.9
100°	307.9	308.6	308.6	307.9	308.6	311.0	314.6	314.6	311.0	306.7	305.5
102.5°	305.5	304.9	304.9	304.9	304.9	307.3	311.0	310.4	307.3	303.1	301.9
105°	301.3	301.3	300.7	300.7	301.3	303.7	307.3	306.7	303.1	298.9	297.7
107.5°	296.5	296.5	295.8	295.8	296.5	298.9	302.5	301.9	298.3	294.0	292.8
110°	290.4	290.4	289.8	289.2	291.0	293.4	297.1	296.5	292.8	288.6	287.4



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CATALOG NUMBER: ULA-A3-D-U-SYM-VMx-7027-BK

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	284.4	284.4	284.4	283.7	285.6	288.0	291.0	290.4	286.8	282.5	281.9
115°	277.7	277.7	277.1	277.1	279.5	281.9	285.0	283.7	280.1	276.5	275.3
117.5°	271.0	271.0	269.8	269.8	272.3	275.3	278.3	277.1	273.5	269.8	268.6
120°	263.8	263.8	262.6	262.6	265.6	268.6	271.6	270.4	266.8	262.6	262.0
122.5°	255.9	255.9	254.7	255.3	258.3	261.4	264.4	263.2	259.5	255.9	254.7
125°	247.4	247.4	246.8	247.4	250.5	253.5	256.5	255.3	251.7	248.7	246.8
127.5°	239.0	239.0	239.0	239.6	242.6	245.6	248.7	246.8	243.8	240.2	239.6
130°	230.5	230.5	229.9	231.1	234.1	237.2	239.6	239.0	235.3	232.3	231.1
132.5°	221.4	221.4	221.4	222.0	225.1	228.1	231.1	229.9	226.9	223.2	222.0
135°	211.8	211.8	212.4	213.0	216.0	219.0	221.4	220.2	217.8	214.2	212.4
137.5°	202.1	202.7	202.7	203.9	206.3	209.3	211.1	210.5	207.5	204.5	203.3
140°	192.4	192.4	193.0	194.2	196.6	199.0	200.3	199.7	197.8	194.8	193.0
142.5°	182.7	182.7	183.3	184.5	186.3	188.2	190.0	189.4	187.6	185.1	183.3
145°	173.0	173.0	173.6	174.8	176.7	177.9	179.7	179.1	177.3	174.8	173.0
147.5°	164.6	164.0	164.6	165.8	167.6	168.2	169.4	169.4	167.6	165.2	164.0
150°	155.5	155.5	156.1	156.7	157.9	159.1	159.7	159.7	157.9	155.5	154.3
152.5°	144.6	144.6	145.2	147.0	147.6	149.4	150.0	148.8	147.6	144.6	144.0
155°	136.1	136.1	136.1	137.3	137.9	138.5	139.2	138.5	137.3	135.5	134.9
157.5°	128.3	127.7	127.7	128.9	129.5	129.5	130.1	129.5	128.9	127.1	126.4
160°	119.8	119.8	119.8	120.4	120.4	121.6	121.6	121.0	119.8	119.2	118.0
162.5°	111.9	111.9	111.9	111.9	112.5	112.5	112.5	111.9	111.3	110.7	110.1
165°	104.1	104.1	104.1	104.1	104.1	104.7	104.7	104.1	103.5	102.9	102.9
167.5°	97.4	97.4	96.8	96.8	97.4	97.4	97.4	96.8	96.8	96.2	96.2
170°	90.8	91.4	91.4	90.8	90.8	90.8	90.8	90.8	90.8	90.1	90.1
172.5°	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.3	85.3
175°	82.3	82.3	82.3	81.7	82.3	82.3	82.3	81.7	81.7	81.7	81.7
177.5°	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
180°	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3
2.5°	38.7	38.7	39.3	39.3	39.9	39.9	39.9	39.9	39.9	39.9
5°	41.7	41.7	42.4	42.4	42.4	43.0	43.0	43.0	43.0	43.0
7.5°	49.0	49.6	50.2	49.6	49.6	50.2	49.6	49.6	50.2	50.2
10°	56.3	56.9	57.5	57.5	57.5	57.5	57.5	57.5	57.5	56.9
12.5°	64.7	64.7	64.7	65.3	65.3	65.3	65.3	65.3	65.9	65.3
15°	72.6	72.6	72.6	73.2	73.2	73.2	73.2	73.8	74.4	73.8
17.5°	81.1	81.1	81.1	81.1	81.1	81.1	81.7	82.3	82.9	82.3
20°	90.1	90.1	89.5	89.5	89.5	89.5	90.1	90.8	90.8	90.8
22.5°	100.4	99.2	99.2	98.6	98.6	99.2	99.8	100.4	100.4	99.8
25°	111.3	110.1	108.9	109.5	108.9	109.5	110.1	110.7	110.7	110.1
27.5°	122.8	121.6	120.4	120.4	119.8	120.4	120.4	121.6	122.2	121.6
30°	134.9	133.7	131.9	131.9	131.3	131.3	132.5	133.1	133.7	133.1
32.5°	147.6	145.2	144.6	144.0	142.8	142.8	144.0	144.6	145.8	145.2
35°	160.9	159.1	156.7	155.5	155.5	156.1	156.7	157.3	159.1	158.5
37.5°	173.0	170.6	168.8	167.6	167.6	167.6	169.4	170.0	171.2	170.6
40°	184.5	182.1	180.3	179.1	179.1	179.1	180.9	181.5	183.3	183.3
42.5°	195.4	193.0	192.4	190.6	190.0	190.6	191.8	193.6	195.4	195.4
45°	205.7	203.9	202.7	201.5	200.9	201.5	202.7	205.1	206.9	206.3
47.5°	216.0	214.2	213.0	211.8	211.1	211.1	213.0	215.4	217.8	217.2
50°	225.7	223.9	222.6	222.0	221.4	221.4	223.2	225.7	228.7	228.1
52.5°	234.1	232.9	232.3	231.7	230.5	230.5	232.3	235.3	237.8	238.4
55°	242.6	241.4	241.4	240.2	239.6	239.6	241.4	244.4	246.8	247.4
57.5°	251.1	249.9	250.5	249.3	248.1	247.4	249.9	253.5	255.9	257.1
60°	258.3	257.7	257.7	257.1	255.9	255.3	257.7	261.4	264.4	265.0
62.5°	265.6	265.0	265.6	265.0	263.2	262.6	265.0	268.6	272.3	272.9
65°	272.3	271.6	273.5	272.3	270.4	269.8	272.3	276.5	280.1	280.7
67.5°	278.3	278.3	279.5	278.9	276.5	275.9	278.3	282.5	286.8	287.4
70°	284.4	285.0	286.8	285.6	283.1	282.5	284.4	289.2	293.4	294.0
72.5°	289.2	290.4	292.8	291.6	288.6	287.4	290.4	295.2	299.5	300.1
75°	294.6	295.2	297.1	296.5	294.0	292.2	295.2	300.1	304.3	304.9
77.5°	298.9	300.1	302.5	301.3	298.3	297.1	300.1	304.9	309.2	309.2
80°	302.5	304.3	306.1	305.5	302.5	300.7	303.7	308.6	312.8	312.8
82.5°	305.5	307.3	309.2	308.6	305.5	303.7	306.1	311.0	315.8	316.4
85°	307.9	309.8	312.2	311.6	307.9	306.1	308.6	314.0	317.6	318.2
87.5°	308.6	311.0	314.0	312.2	309.8	307.3	310.4	314.6	318.8	319.4
90°	309.8	312.2	314.6	313.4	310.4	308.6	311.0	315.2	320.0	320.7
92.5°	309.8	312.2	314.6	314.0	311.0	308.6	311.0	315.8	319.4	320.0
95°	309.2	311.6	314.0	313.4	309.8	307.9	310.4	314.6	318.8	318.8
97.5°	307.3	309.8	312.2	311.6	308.6	306.1	308.6	312.8	317.0	317.0
100°	304.9	307.3	310.4	309.8	306.1	304.3	306.1	311.0	314.6	314.6
102.5°	301.3	303.7	306.7	306.1	303.1	300.7	302.5	307.3	310.4	310.4
105°	297.7	299.5	302.5	301.9	298.9	296.5	298.9	303.1	306.7	307.3
107.5°	292.8	294.6	297.7	297.7	294.6	292.2	294.0	298.9	301.9	302.5
110°	287.4	289.2	291.6	291.6	289.2	286.8	288.6	292.8	297.1	297.1



REPORT NUMBER: P256812

CATALOG NUMBER: ULA-A3-D-U-SYM-VMx-7027-BK

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	281.3	283.1	285.6	285.6	282.5	280.7	282.5	287.4	291.0	291.0
115°	275.3	276.5	278.9	278.9	276.5	274.7	277.1	281.3	285.0	285.0
117.5°	268.6	269.8	271.6	272.3	269.8	268.0	270.4	274.1	278.3	278.3
120°	261.4	262.6	264.4	264.4	262.6	261.4	263.2	267.4	271.0	271.6
122.5°	254.7	255.3	256.5	256.5	254.7	254.1	255.9	260.8	263.8	264.4
125°	246.8	246.8	248.7	248.1	246.8	246.2	248.7	252.3	255.9	255.9
127.5°	239.0	239.0	239.6	239.6	238.4	237.8	240.8	244.4	247.4	248.1
130°	230.5	229.9	230.5	230.5	229.9	229.9	232.3	236.0	239.0	239.6
132.5°	221.4	220.8	220.8	220.8	220.8	220.8	223.2	226.9	229.9	230.5
135°	211.8	211.1	211.1	211.1	210.5	211.8	214.2	217.2	220.2	220.8
137.5°	202.7	201.5	201.5	200.9	201.5	202.7	204.5	207.5	210.5	210.5
140°	192.4	190.6	190.6	190.6	191.8	193.0	194.8	197.8	200.3	200.9
142.5°	182.7	180.9	180.3	180.9	181.5	182.7	185.1	188.2	190.0	190.0
145°	172.4	170.6	170.0	170.6	171.8	173.6	175.5	177.9	179.7	179.7
147.5°	163.4	161.5	160.9	160.9	162.7	164.6	166.4	168.8	170.0	170.0
150°	153.7	151.9	151.3	151.9	153.7	154.9	157.3	159.1	160.3	160.3
152.5°	143.4	141.6	141.0	141.6	142.8	144.6	147.0	148.8	150.6	150.0
155°	134.3	132.5	131.9	132.5	133.7	135.5	136.7	138.5	139.8	139.2
157.5°	125.8	124.6	124.0	124.6	125.8	127.1	128.3	129.5	130.7	130.1
160°	118.0	116.8	116.8	116.8	117.4	119.2	119.8	121.0	121.6	121.6
162.5°	110.1	108.9	108.9	109.5	110.1	111.3	111.9	112.5	112.5	112.5
165°	102.9	101.6	101.6	102.2	102.2	103.5	103.5	104.1	104.7	104.1
167.5°	96.2	95.6	95.0	95.6	96.2	96.8	96.8	96.8	97.4	96.8
170°	90.1	90.1	89.5	89.5	90.1	90.8	90.8	90.8	90.8	90.8
172.5°	85.3	85.3	85.3	85.3	85.9	85.9	85.9	85.9	85.9	85.9
175°	81.7	81.7	81.7	81.7	82.3	82.3	82.3	82.3	82.3	82.3
177.5°	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
180°	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3

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