

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: P256791

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256791
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1804-729-18)
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-ASYM-VMx-7027-HSS-BK
Description: UTILITY LIGHT ACORN ASYMMETRIC W/ HSS
Light Source: (60) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2680.3 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 2.17')
IES Classification: Type - Short - Non-Cutoff
BUG Rating: B0 - U5 - G3

Input Watts (W): 21.4
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



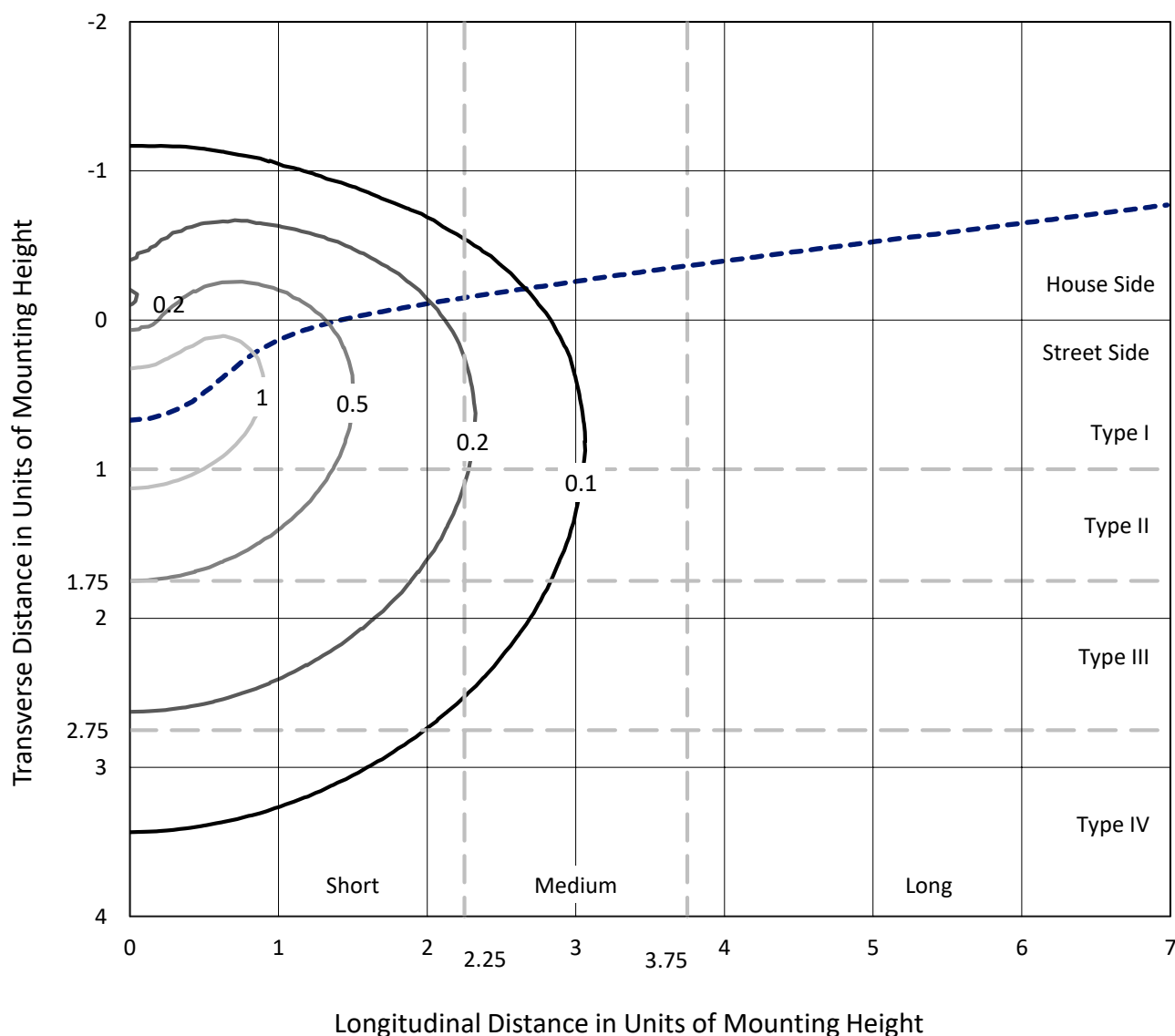
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

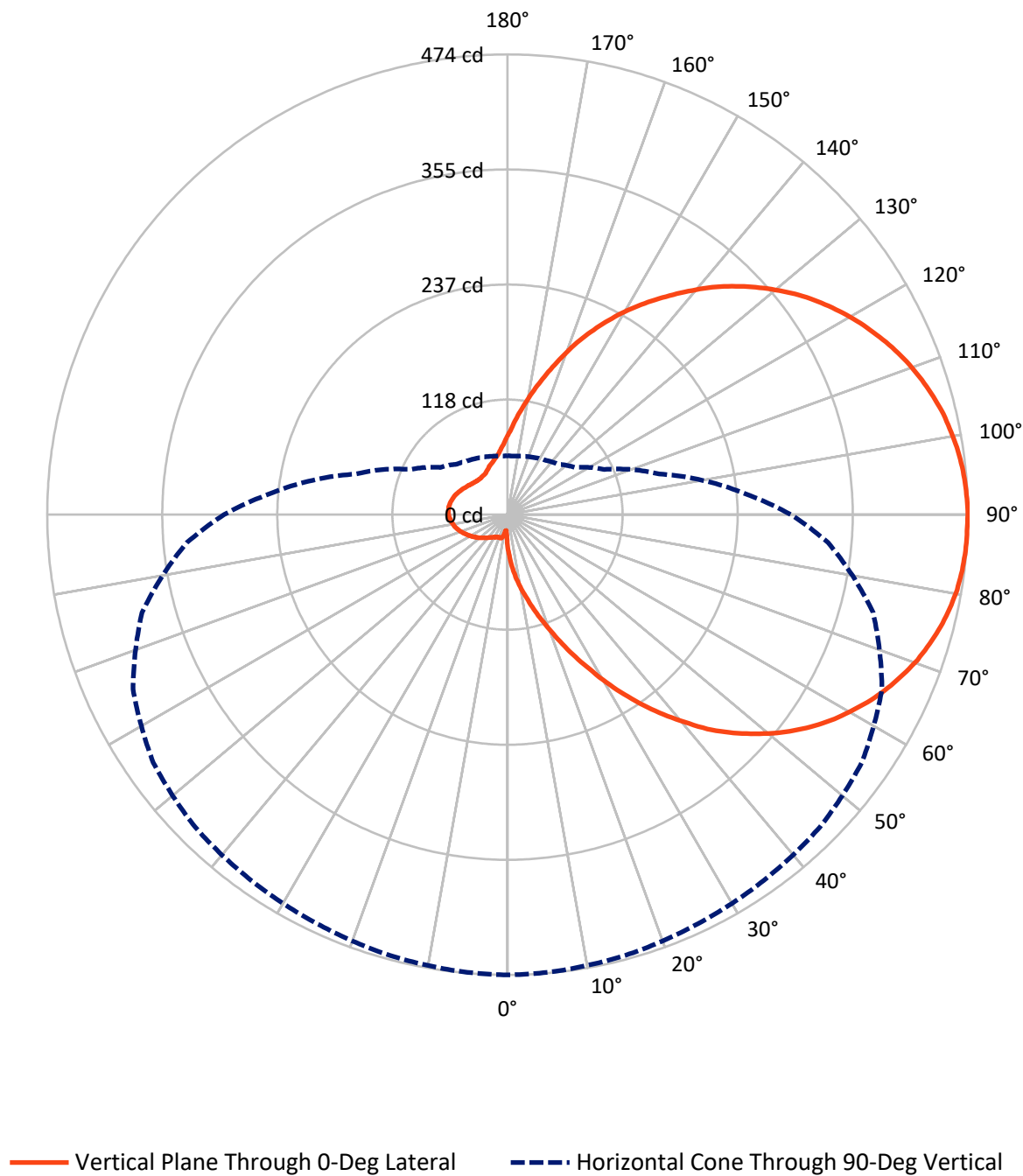


Based on 10 foot mounting height. Maximum calculated value = 1.3 fc
 Type - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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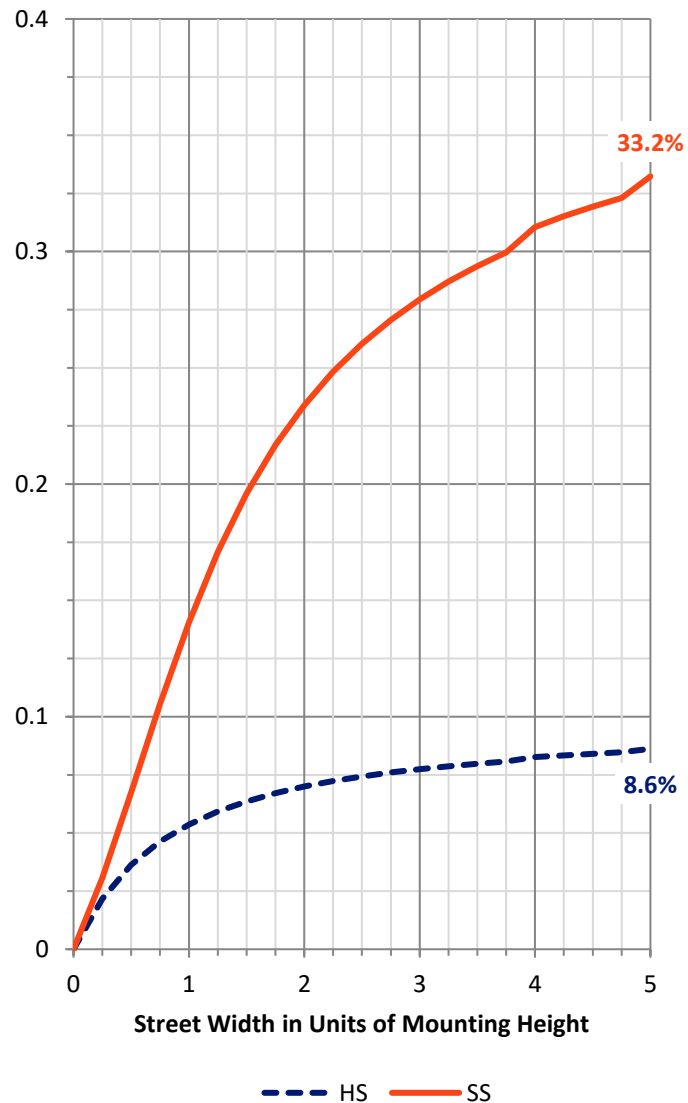
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	256.3	311.3	567.6
	% Fixture	9.6	11.6	21.2
Street Side	Lumens	1039.5	1073.2	2112.7
	% Fixture	38.8	40.0	78.8
Total	Lumens	1295.8	1384.5	2680.3
	% Fixture	48.3	51.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.9	0.1
10°-20°	18.7	0.7
20°-30°	46.6	1.7
30°-40°	89.9	3.4
40°-50°	141.6	5.3
50°-60°	193.0	7.2
60°-70°	238.1	8.9
70°-80°	272.6	10.2
80°-90°	291.4	10.9
90°-100°	292.7	10.9
100°-110°	276.2	10.3
110°-120°	245.2	9.1
120°-130°	204.5	7.6
130°-140°	156.7	5.8
140°-150°	107.2	4.0
150°-160°	63.7	2.4
160°-170°	30.1	1.1
170°-180°	8.1	0.3
0°-90°	1295.8	48.3
0°-180°	2680.3	100.0

Coefficient of Utilization



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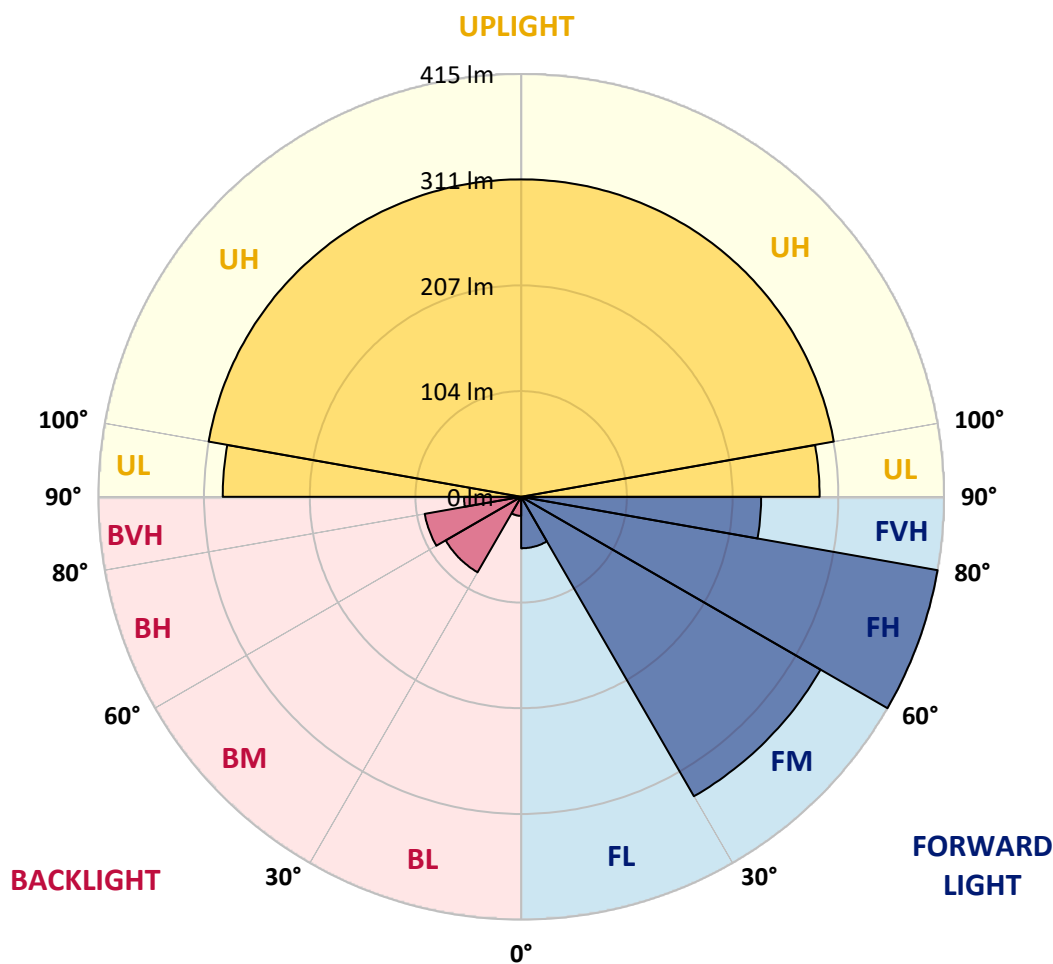
CATALOG NUMBER: ULA-A3-D-U-ASYM-VMx-7027-HSS-BK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	50.5	1.9			
FM	(30°-60°)	339.0	12.6			
FH	(60°-80°)	414.7	15.5			G0/660
FVH	(80°-90°)	235.3	8.8			G3/500
BL	(0°-30°)	18.7	0.7	B0/110		
BM	(30°-60°)	85.4	3.2	B0/220		
BH	(60°-80°)	96.0	3.6	B0/110		G0/110
BVH	(80°-90°)	56.1	2.1			G1/100
UL	(90°-100°)	292.7	10.9		U3/500	
UH	(100°-180°)	311.3	11.6		U3/500	

BUG Rating: B0-U5-G3

Type Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8
2.5°	44.2	43.5	43.5	43.1	43.1	41.5	40.0	38.4	36.5	35.3	34.5
5°	55.9	54.7	54.3	53.2	52.0	49.3	47.4	44.2	41.5	38.0	36.5
7.5°	66.8	66.0	64.8	63.3	62.1	58.6	55.9	52.0	48.5	44.6	43.1
10°	77.6	76.8	75.7	74.1	71.8	69.1	66.0	61.3	57.1	52.4	50.1
12.5°	88.1	87.7	86.9	85.4	83.4	80.3	76.8	71.8	66.8	60.5	57.4
15°	100.9	100.1	99.4	97.8	95.9	92.4	88.5	83.4	76.8	69.9	66.4
17.5°	113.7	112.9	112.9	111.8	109.5	106.3	102.1	95.9	87.7	79.2	74.5
20°	128.1	127.3	127.3	126.1	123.8	120.7	116.1	109.5	100.5	89.3	83.8
22.5°	144.4	143.6	143.6	142.4	140.1	137.0	132.0	124.6	114.1	102.1	94.7
25°	162.2	161.1	161.1	159.9	157.6	154.5	149.4	140.9	128.9	115.3	106.7
27.5°	179.7	179.7	178.9	178.9	176.6	173.5	168.1	158.7	145.2	128.9	118.8
30°	200.3	200.3	199.1	198.7	196.0	193.3	187.1	177.0	162.2	142.8	130.8
32.5°	220.5	220.5	219.3	218.9	215.8	213.1	206.5	195.6	178.9	156.4	143.2
35°	241.0	240.3	239.5	239.1	236.4	232.9	226.3	213.9	195.2	170.0	155.3
37.5°	260.8	260.8	260.0	258.9	256.6	252.3	244.5	231.3	211.5	183.6	166.5
40°	280.6	281.0	280.2	279.1	275.2	271.7	263.5	249.2	227.4	196.4	177.8
42.5°	301.6	300.4	299.2	298.1	294.2	289.9	281.4	266.3	242.6	208.8	188.2
45°	319.8	319.0	317.9	316.3	312.8	307.4	298.9	282.2	256.9	220.1	198.3
47.5°	336.9	336.5	334.6	332.6	329.5	323.7	314.4	297.3	270.5	231.3	207.3
50°	353.6	353.6	351.6	348.5	345.0	340.4	329.5	311.7	283.3	241.8	216.2
52.5°	369.1	368.7	366.0	362.5	359.4	354.4	343.9	325.3	295.4	251.5	224.0
55°	383.5	383.1	380.0	376.5	373.0	367.9	357.1	337.7	307.0	260.8	231.7
57.5°	396.7	396.3	393.2	388.9	385.4	380.4	369.1	348.9	317.5	269.4	239.1
60°	408.3	407.9	404.8	400.2	396.7	391.6	380.8	359.8	327.6	277.5	245.7
62.5°	420.0	419.2	415.7	411.0	406.8	402.1	391.2	370.3	337.3	285.3	251.9
65°	430.0	429.3	425.4	420.3	416.5	411.4	400.6	379.6	345.8	292.7	258.1
67.5°	439.0	438.2	434.3	428.9	425.0	420.0	409.5	388.1	353.6	299.2	263.5
70°	447.5	446.4	442.5	436.6	432.8	427.7	417.2	395.9	361.3	305.5	269.0
72.5°	454.1	453.3	449.1	443.2	439.0	434.7	424.2	402.9	367.9	311.3	274.0
75°	460.3	459.5	455.3	449.1	445.2	440.5	430.4	409.1	373.4	316.3	278.3
77.5°	465.0	464.2	459.9	453.7	449.8	445.2	435.1	414.1	378.0	320.6	281.8
80°	468.9	467.7	463.4	457.6	453.3	448.7	439.0	418.0	382.3	324.1	285.3
82.5°	471.2	470.4	466.5	460.7	456.4	451.4	441.7	421.1	385.0	327.2	287.6
85°	472.7	472.0	468.1	462.7	458.0	453.3	443.6	423.1	387.4	329.1	289.5
87.5°	473.1	472.7	469.3	463.8	459.2	454.1	444.4	424.2	388.9	330.7	290.7
90°	473.5	472.7	469.3	464.2	459.5	454.5	444.8	425.0	389.3	331.1	291.5
92.5°	472.4	472.0	468.9	463.8	459.5	453.7	444.0	424.6	389.3	331.5	291.9
95°	470.8	470.0	467.7	462.7	458.0	452.6	442.5	423.5	388.5	331.1	291.5
97.5°	468.1	467.7	465.4	460.3	456.1	450.2	440.1	421.1	386.6	329.5	290.7
100°	464.2	463.8	461.5	456.8	452.2	446.7	436.6	417.6	383.5	327.2	288.8
102.5°	460.3	459.5	457.2	452.6	448.3	442.9	432.8	414.1	380.0	324.5	286.8
105°	454.5	453.7	451.8	447.5	442.9	437.4	427.3	409.1	374.9	321.0	283.7
107.5°	448.3	447.5	445.6	441.3	436.6	431.6	421.9	403.7	369.9	317.1	280.6
110°	441.3	439.8	438.2	433.9	429.7	425.0	415.3	397.4	364.8	312.4	277.1



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CATALOG NUMBER: ULA-A3-D-U-ASYM-VMx-7027-HSS-BK

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	433.2	432.4	430.4	426.6	421.9	417.6	407.9	390.5	357.9	307.4	273.6
115°	424.2	423.5	421.5	417.6	413.7	409.5	400.6	382.3	351.3	302.4	269.8
117.5°	414.9	414.1	411.8	408.3	404.8	400.9	391.6	374.5	343.9	296.5	265.5
120°	404.8	404.0	402.1	399.0	395.5	391.6	382.7	365.6	336.1	290.7	260.8
122.5°	394.0	393.6	391.6	388.1	385.0	381.9	373.4	356.7	328.0	284.1	256.2
125°	382.7	381.9	380.0	376.9	374.5	371.1	362.5	346.2	319.0	277.1	250.7
127.5°	370.3	369.9	367.9	365.2	362.9	359.8	351.3	335.7	309.3	269.8	244.9
130°	357.1	357.1	354.4	352.8	350.9	347.4	339.2	324.1	298.9	261.2	238.3
132.5°	343.5	343.1	341.6	339.2	337.7	334.2	326.4	311.7	287.6	252.7	231.3
135°	329.5	329.1	326.8	325.3	324.1	320.6	312.4	298.5	276.0	243.4	223.6
137.5°	314.8	314.8	312.4	311.3	309.7	305.8	298.1	284.5	263.5	233.3	215.0
140°	298.9	298.9	297.3	295.4	294.2	289.9	282.6	269.4	250.0	222.0	205.7
142.5°	283.3	283.3	281.8	279.8	278.3	274.0	266.6	254.2	236.4	211.1	196.4
145°	268.2	268.2	267.0	265.1	263.2	258.9	251.5	239.5	223.2	199.9	187.1
147.5°	253.1	253.1	251.9	250.0	248.0	243.7	236.4	225.1	210.0	189.4	177.4
150°	237.9	237.9	236.4	234.4	232.9	228.2	221.2	210.4	196.8	177.8	167.3
152.5°	222.4	222.4	220.8	219.3	217.0	212.7	205.7	196.4	183.2	166.5	157.2
155°	206.5	205.7	204.9	203.4	201.1	196.8	190.2	181.6	169.6	155.3	147.1
157.5°	191.0	190.2	189.0	187.9	185.5	181.6	175.4	167.3	156.8	144.4	137.4
160°	174.3	175.0	173.9	172.7	170.4	166.1	160.7	153.7	144.4	133.5	127.7
162.5°	158.7	159.1	158.4	157.2	155.3	151.0	146.3	140.1	132.0	122.6	117.6
165°	144.0	144.4	143.6	142.4	140.5	136.6	132.7	126.9	119.9	112.6	108.3
167.5°	130.8	131.6	130.0	128.9	127.3	123.8	120.3	115.7	109.5	103.6	100.1
170°	118.0	119.2	117.6	116.8	115.3	112.6	109.1	105.6	100.5	95.5	92.4
172.5°	106.7	107.5	106.3	105.6	104.0	101.7	99.4	96.3	92.4	88.5	86.6
175°	96.3	96.3	95.9	94.3	93.9	92.4	90.4	88.5	86.6	83.8	82.3
177.5°	86.6	86.6	86.6	86.2	85.8	85.0	84.2	83.1	81.9	80.7	80.0
180°	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8
2.5°	33.8	31.4	29.5	27.6	25.6	24.5	22.5	22.1	21.7	21.3
5°	34.9	31.8	28.3	25.6	22.9	20.2	18.2	17.1	16.3	16.3
7.5°	40.8	37.3	33.0	29.1	26.0	22.9	20.6	18.6	17.5	17.1
10°	47.4	42.7	37.6	33.0	29.5	26.0	22.9	21.0	20.2	20.2
12.5°	54.7	48.9	42.7	36.9	32.6	28.3	25.2	23.7	22.9	22.9
15°	62.1	54.7	47.4	40.4	34.9	30.7	27.6	25.6	24.8	24.8
17.5°	69.9	60.9	51.6	43.5	37.3	32.2	28.7	26.4	25.2	25.2
20°	78.0	66.8	55.9	46.2	38.8	33.0	29.1	26.4	25.2	24.8
22.5°	87.3	73.4	60.5	49.3	40.8	34.2	29.5	26.8	25.2	25.2
25°	97.8	80.3	65.2	52.0	42.3	34.9	29.9	26.8	25.6	25.2
27.5°	108.7	87.7	69.9	55.1	43.9	36.1	30.7	27.6	26.0	26.0
30°	119.5	95.1	74.1	57.4	45.4	36.9	31.4	28.3	26.8	26.4
32.5°	130.0	102.5	78.0	59.8	47.0	38.0	32.2	29.1	27.6	27.6
35°	139.3	108.3	81.5	61.3	48.1	39.2	33.4	29.9	28.3	28.3
37.5°	149.0	114.1	84.2	62.9	48.9	40.0	34.2	31.1	29.5	29.5
40°	158.0	119.2	86.6	64.0	49.7	40.8	35.3	32.2	30.7	30.7
42.5°	166.5	123.8	88.5	65.2	50.8	41.9	36.5	33.4	32.2	32.2
45°	174.3	127.3	90.0	66.0	51.6	43.1	38.0	34.9	33.8	33.4
47.5°	181.3	130.8	91.2	66.8	52.4	43.9	39.2	36.5	34.9	34.9
50°	187.9	133.9	92.4	67.1	53.2	45.0	40.8	38.0	36.9	36.9
52.5°	194.1	136.6	93.2	67.9	54.0	46.2	41.9	39.6	38.4	38.4
55°	199.9	139.3	94.7	68.7	55.1	47.7	43.5	41.1	40.0	40.0
57.5°	205.3	141.7	95.9	69.5	55.9	49.3	45.4	43.1	41.9	41.9
60°	210.4	143.6	96.6	70.3	57.1	50.8	47.0	44.6	43.5	43.5
62.5°	215.4	145.9	97.4	71.4	58.6	52.4	48.9	46.6	45.4	45.4
65°	220.1	147.9	98.6	72.6	59.8	54.0	50.5	48.5	47.4	47.0
67.5°	224.0	149.4	99.7	73.7	61.3	55.5	52.4	50.5	48.9	48.9
70°	227.8	151.4	101.3	74.9	62.9	57.4	54.0	52.0	50.8	50.5
72.5°	231.7	153.3	102.5	76.1	64.4	59.0	55.9	53.6	52.4	52.4
75°	235.2	154.9	104.0	77.6	66.0	60.9	57.4	55.5	54.0	54.0
77.5°	237.9	156.4	105.2	78.8	67.5	62.1	59.0	57.1	55.5	55.5
80°	240.3	157.6	106.3	80.3	69.1	63.7	60.5	58.2	57.1	56.7
82.5°	242.6	158.7	107.1	81.5	70.3	65.2	61.7	59.8	58.2	57.8
85°	243.7	159.9	108.3	82.7	71.4	66.4	62.9	60.5	59.4	59.0
87.5°	244.9	160.7	109.1	83.4	72.6	67.1	64.0	61.7	60.2	59.8
90°	245.7	161.5	109.8	84.6	73.4	68.3	64.8	62.1	60.5	60.5
92.5°	246.1	161.9	110.6	85.0	74.1	68.7	65.2	62.5	60.9	60.9
95°	246.1	162.2	111.4	85.8	74.9	69.1	65.6	62.9	61.3	60.9
97.5°	245.7	162.6	111.8	86.6	75.3	69.1	65.6	62.9	61.3	60.9
100°	244.5	162.2	112.6	86.9	75.3	69.1	65.2	62.5	60.9	60.5
102.5°	243.4	162.6	113.3	87.7	75.7	69.1	64.8	62.1	60.5	60.2
105°	241.4	163.0	114.1	88.1	75.7	68.7	64.4	61.3	59.8	59.4
107.5°	239.5	163.0	114.9	88.5	75.7	68.3	63.7	60.5	59.0	58.6
110°	237.5	163.8	116.1	89.7	75.7	67.9	62.9	59.8	57.8	57.8



REPORT NUMBER: P256791

CATALOG NUMBER: ULA-A3-D-U-ASYM-VMx-7027-HSS-BK

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	235.6	164.2	117.6	90.4	76.1	67.1	61.7	58.6	56.7	56.7
115°	233.3	165.0	119.2	91.2	76.1	66.8	60.9	57.4	55.5	55.5
117.5°	230.9	165.7	120.3	92.4	76.5	66.4	60.2	56.3	54.3	54.3
120°	228.2	166.5	121.9	93.5	76.8	66.0	59.4	55.1	53.6	53.2
122.5°	225.5	166.5	123.4	95.5	77.2	65.6	58.6	54.3	52.4	52.0
125°	222.0	166.5	124.6	96.3	77.6	65.6	57.8	53.2	51.2	50.8
127.5°	218.1	166.1	125.8	97.0	77.6	65.2	57.1	52.4	50.1	50.1
130°	213.5	165.0	126.1	97.8	78.0	64.8	56.7	51.6	49.3	48.9
132.5°	208.8	163.4	126.1	98.6	78.4	64.8	55.9	50.8	48.5	48.1
135°	202.2	160.7	125.4	98.6	78.4	64.8	55.5	50.5	47.7	47.7
137.5°	195.6	157.6	124.2	97.8	78.4	64.4	55.5	50.1	47.4	47.0
140°	188.2	153.3	122.3	97.4	78.0	64.4	55.1	49.7	47.0	46.6
142.5°	180.5	149.0	120.3	96.6	78.0	64.4	55.1	49.7	47.0	46.6
145°	172.7	144.4	118.0	95.5	77.2	64.4	55.1	49.7	47.0	46.6
147.5°	164.6	139.3	115.3	93.5	76.8	64.4	55.5	49.7	47.4	47.0
150°	156.0	133.1	111.8	91.6	76.1	64.0	55.5	50.1	47.7	47.4
152.5°	147.5	126.9	107.5	89.3	75.3	64.0	55.9	50.8	48.5	48.1
155°	138.2	120.7	103.6	87.3	74.5	64.4	57.1	52.0	50.1	49.7
157.5°	129.6	114.5	99.7	85.4	74.1	64.8	58.2	53.6	51.6	51.2
160°	121.1	108.3	95.5	83.4	73.4	65.2	59.0	55.1	53.2	53.2
162.5°	112.6	101.7	90.4	80.7	72.2	65.2	60.2	56.7	54.7	54.7
165°	104.0	94.7	86.2	78.0	71.0	65.6	60.9	58.2	56.7	56.3
167.5°	96.6	89.3	82.3	76.1	70.3	66.0	62.1	59.8	58.6	58.6
170°	89.7	84.6	79.2	74.5	70.3	66.8	63.7	62.1	60.9	60.9
172.5°	84.6	81.1	77.2	73.7	70.6	67.9	66.0	64.8	64.0	63.7
175°	81.1	78.8	76.1	74.1	72.2	70.3	69.1	68.7	68.3	68.3
177.5°	79.6	78.0	76.8	75.7	74.9	74.1	73.7	73.4	73.4	73.0
180°	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6

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