

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: P256776

Luminaire Tested: **ULA-A5-D-U-ASYM-VMx-7027-BK**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256776
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1804-729-11)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ULA-A5-D-U-ASYM-VMx-7027-BK
Description: UTILITY LIGHT ACORN TYPE IV ASYMMETRIC
Light Source: (60) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4301 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 2.17')
IES Classification: Type - Short - Non-Cutoff
BUG Rating: B1 - U5 - G3

Input Watts (W): 36.7
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



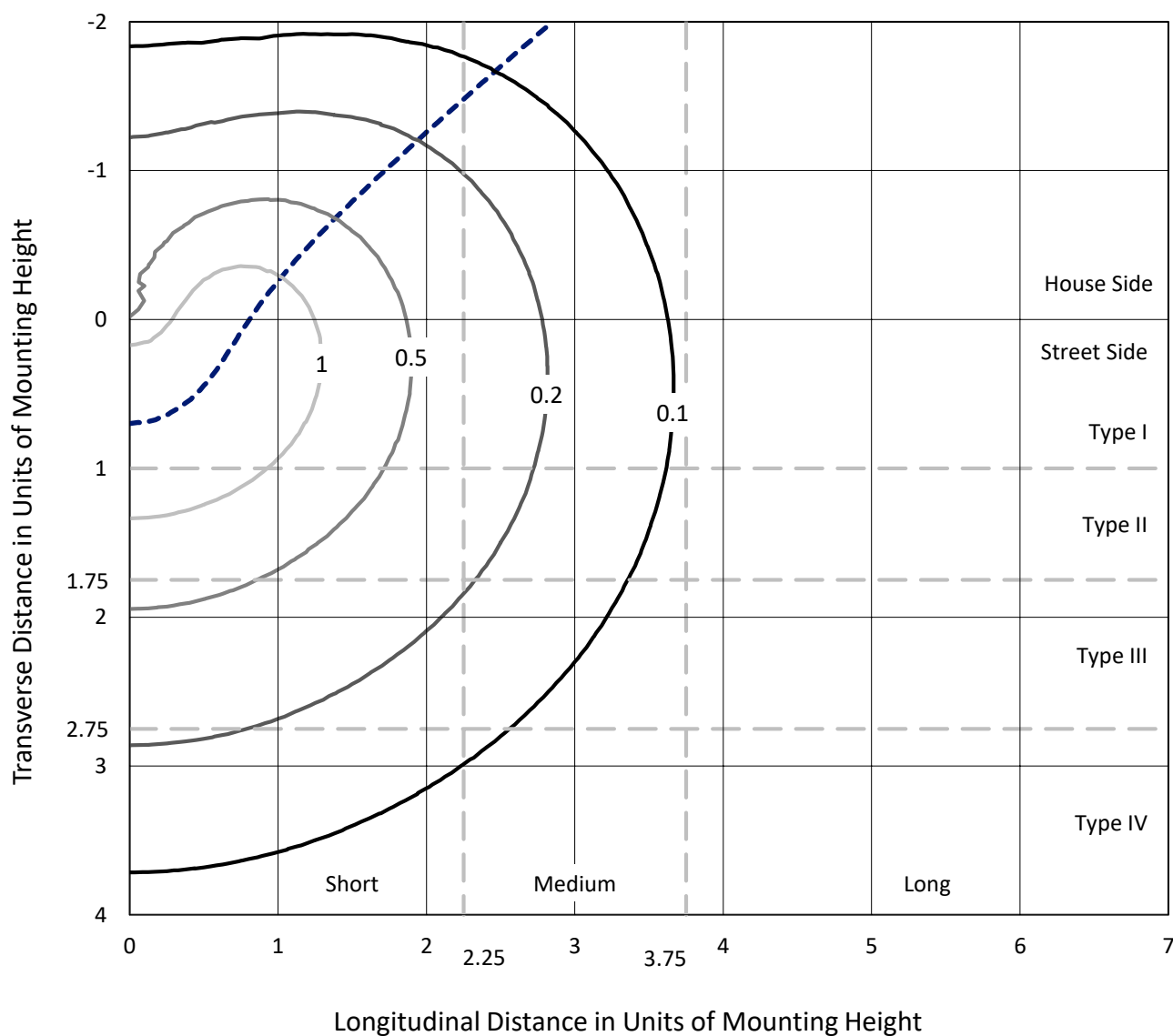
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

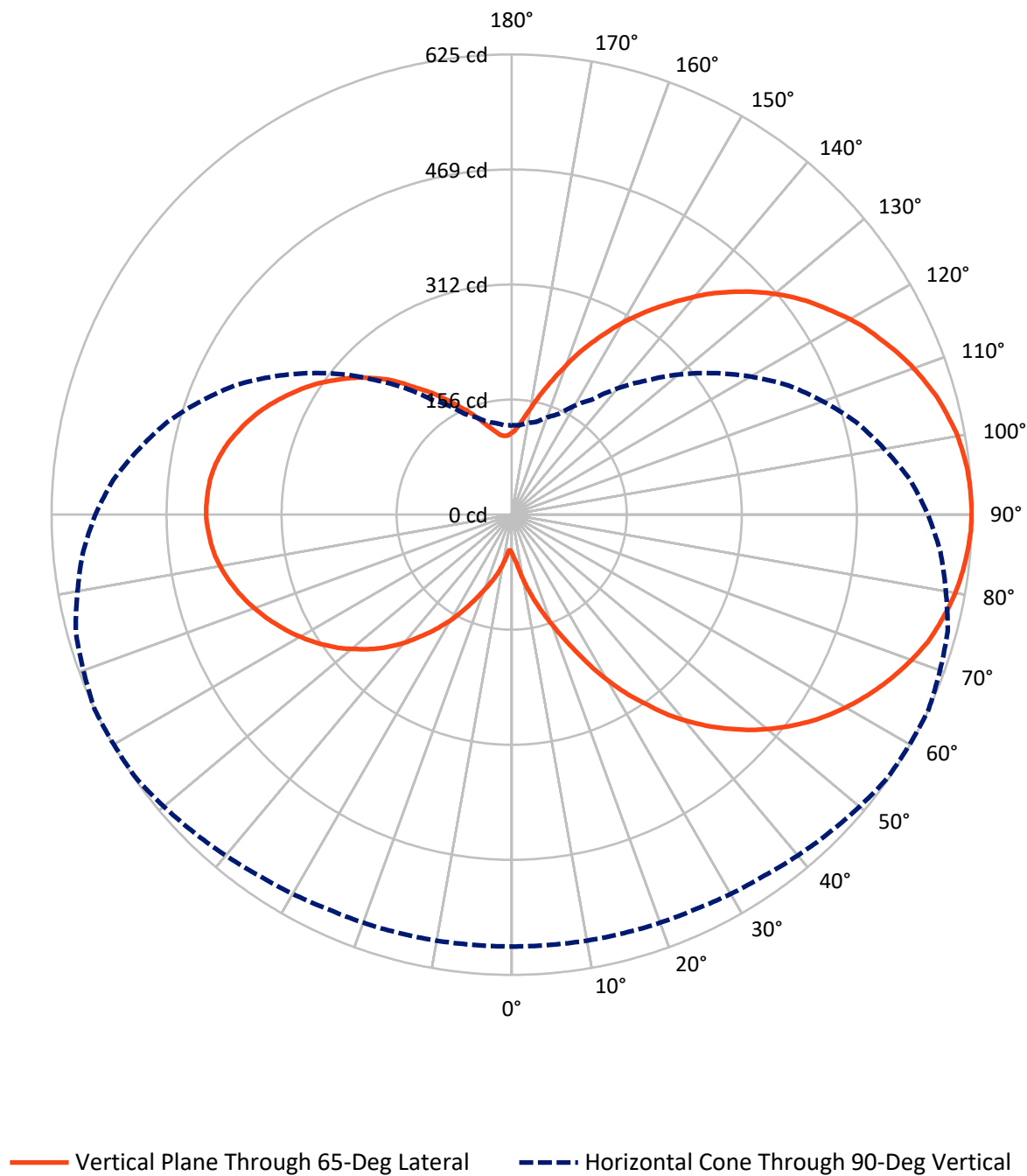


Based on 10 foot mounting height. Maximum calculated value = 1.8 fc
 Type - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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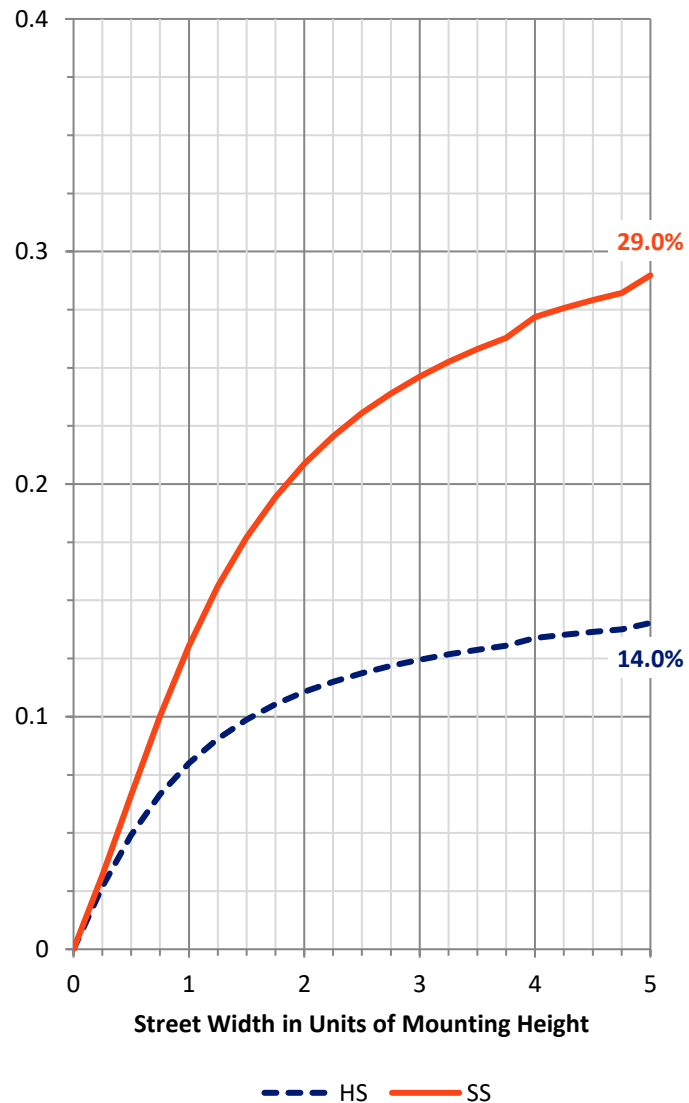
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	674.7	708.6	1383.3
	% Fixture	15.7	16.5	32.2
Street Side	Lumens	1442.5	1475.2	2917.7
	% Fixture	33.5	34.3	67.8
Total	Lumens	2117.1	2183.9	4301.0
	% Fixture	49.2	50.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.1	0.1
10°-20°	29.3	0.7
20°-30°	73.8	1.7
30°-40°	143.9	3.3
40°-50°	228.2	5.3
50°-60°	313.1	7.3
60°-70°	389.5	9.1
70°-80°	449.7	10.5
80°-90°	483.6	11.2
90°-100°	485.4	11.3
100°-110°	452.8	10.5
110°-120°	392.9	9.1
120°-130°	317.8	7.4
130°-140°	235.5	5.5
140°-150°	155.9	3.6
150°-160°	90.2	2.1
160°-170°	41.9	1.0
170°-180°	11.3	0.3
0°-90°	2117.1	49.2
0°-180°	4301.0	100.0

Coefficient of Utilization



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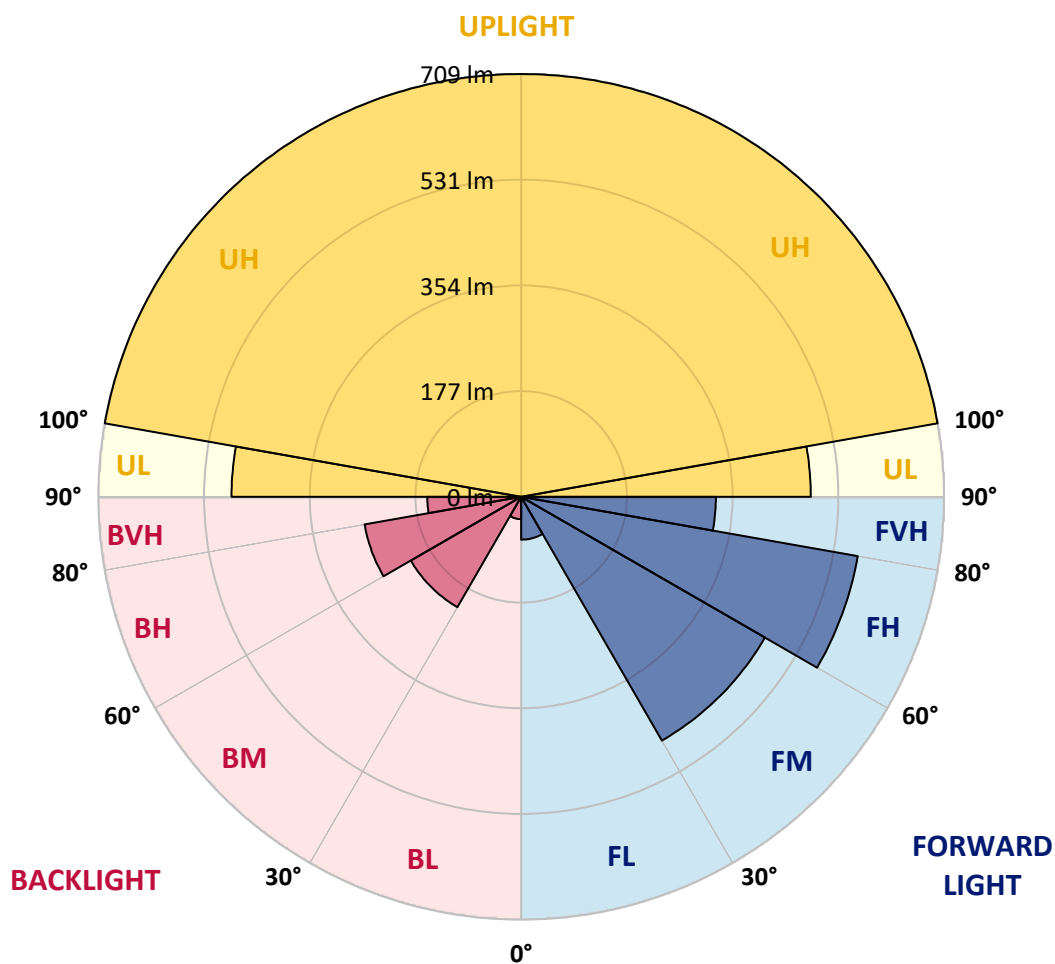
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	71.8	1.7			
FM	(30°-60°)	471.7	11.0			
FH	(60°-80°)	572.7	13.3			G0/660
FVH	(80°-90°)	326.3	7.6			G3/500
BL	(0°-30°)	37.4	0.9	B0/110		
BM	(30°-60°)	213.5	5.0	B0/220		
BH	(60°-80°)	266.4	6.2	B1/500		G1/500
BVH	(80°-90°)	157.4	3.7			G2/225
UL	(90°-100°)	485.4	11.3		U3/500	
UH	(100°-180°)	708.6	16.5		U4/1000	

BUG Rating: B1-U5-G3

Type Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3
2.5°	64.2	62.4	62.4	61.5	61.5	60.6	59.6	58.7	56.9	55.1	54.1
5°	77.1	76.2	76.2	74.3	72.5	70.7	67.9	65.2	62.4	58.7	57.8
7.5°	91.8	90.8	90.8	88.1	86.3	83.5	80.8	77.1	73.4	69.7	67.9
10°	106.4	105.5	105.5	103.7	101.9	98.2	94.5	91.8	86.3	81.7	79.8
12.5°	122.0	120.2	120.2	118.4	117.5	114.7	111.0	107.4	100.9	95.4	92.7
15°	136.7	135.8	135.8	134.9	134.0	131.2	127.5	123.9	117.5	111.0	107.4
17.5°	153.2	152.3	151.4	151.4	151.4	148.7	145.9	142.2	134.9	126.6	123.0
20°	171.6	169.8	169.8	170.7	170.7	168.8	166.1	161.5	154.2	145.0	139.5
22.5°	190.9	189.9	190.9	190.9	191.8	190.9	188.1	183.5	176.2	165.2	158.7
25°	212.0	211.1	212.9	213.8	215.6	216.6	213.8	208.3	200.0	187.2	179.9
27.5°	237.7	236.7	237.7	241.3	242.3	243.2	241.3	236.7	226.7	212.0	202.8
30°	260.6	260.6	262.4	265.2	267.9	269.8	267.9	264.3	253.3	236.7	226.7
32.5°	284.5	285.4	286.3	290.0	293.6	296.4	294.6	291.8	279.0	263.4	250.5
35°	310.2	311.1	311.1	315.7	320.2	322.1	323.0	316.6	306.5	287.2	273.4
37.5°	335.8	334.9	335.8	340.4	345.0	347.8	348.7	345.0	332.2	311.1	297.3
40°	357.9	357.9	359.7	364.3	368.9	372.6	373.5	368.9	357.0	334.0	319.3
42.5°	380.8	380.8	382.6	386.3	391.8	395.5	397.3	392.7	379.0	357.0	340.4
45°	401.9	401.9	403.8	408.3	413.8	417.5	420.3	414.8	401.0	378.1	362.5
47.5°	422.1	423.0	423.9	427.6	434.0	437.7	441.4	436.8	422.1	396.4	380.8
50°	441.4	442.3	443.2	447.8	452.4	457.0	461.6	457.0	443.2	416.6	399.2
52.5°	458.8	459.7	461.6	463.4	469.8	475.3	479.9	476.2	460.6	434.0	415.7
55°	477.2	477.2	478.1	479.9	486.3	492.8	498.3	494.6	479.0	451.5	433.1
57.5°	492.8	492.8	493.7	495.5	501.0	507.4	513.9	511.1	495.5	467.1	448.7
60°	506.5	506.5	507.4	509.3	514.8	523.0	529.5	526.7	511.1	481.7	463.4
62.5°	520.3	520.3	521.2	523.0	528.5	536.8	544.1	541.4	525.8	496.4	477.2
65°	532.2	532.2	532.2	534.1	540.5	549.7	557.0	555.2	538.6	510.2	490.0
67.5°	543.2	543.2	543.2	544.1	551.5	560.7	569.8	568.0	552.4	523.0	501.9
70°	554.2	552.4	554.2	554.2	561.6	571.7	580.9	579.9	564.3	535.0	513.9
72.5°	562.5	561.6	562.5	564.3	570.8	580.9	590.9	590.9	575.3	545.1	524.9
75°	568.9	568.9	568.9	570.8	578.1	589.1	599.2	599.2	584.5	554.2	534.1
77.5°	575.3	575.3	576.3	577.2	584.5	595.5	607.5	606.5	592.8	562.5	543.2
80°	579.9	579.0	579.9	582.7	589.1	601.0	613.0	613.0	599.2	569.8	549.7
82.5°	583.6	582.7	583.6	586.4	592.8	605.6	617.6	617.6	604.7	576.3	556.1
85°	585.4	585.4	586.4	589.1	595.5	608.4	620.3	621.2	609.3	580.9	560.7
87.5°	586.4	586.4	587.3	590.9	597.4	609.3	622.1	624.0	612.0	582.7	563.4
90°	586.4	586.4	588.2	590.9	598.3	610.2	623.1	624.9	613.0	584.5	565.3
92.5°	586.4	585.4	588.2	590.9	597.4	609.3	622.1	624.0	613.0	584.5	565.3
95°	584.5	583.6	586.4	589.1	595.5	607.5	619.4	622.1	611.1	583.6	563.4
97.5°	580.9	580.9	582.7	586.4	592.8	603.8	616.6	618.5	607.5	579.9	560.7
100°	577.2	577.2	579.0	581.8	588.2	600.1	611.1	613.9	601.0	575.3	555.2
102.5°	572.6	572.6	573.5	576.3	583.6	594.6	604.7	606.5	595.5	568.0	548.7
105°	566.2	565.3	567.1	569.8	576.3	587.3	597.4	599.2	586.4	559.7	540.5
107.5°	557.9	557.9	557.9	561.6	568.0	579.0	588.2	589.1	576.3	549.7	529.5
110°	549.7	549.7	549.7	552.4	559.7	569.8	579.0	579.0	565.3	538.6	520.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	540.5	539.6	539.6	542.3	549.7	559.7	568.9	567.1	553.3	526.7	508.4
115°	529.5	529.5	528.5	531.3	539.6	548.7	557.0	554.2	541.4	513.9	495.5
117.5°	518.5	517.5	517.5	520.3	527.6	537.7	545.1	542.3	527.6	501.0	482.7
120°	506.5	505.6	504.7	507.4	515.7	524.9	531.3	527.6	512.0	486.3	468.9
122.5°	492.8	491.8	491.8	494.6	502.9	512.0	517.5	512.0	498.3	471.7	454.2
125°	478.1	479.0	478.1	480.8	488.2	498.3	502.9	497.3	482.7	456.1	438.6
127.5°	463.4	463.4	462.5	466.1	473.5	482.7	487.3	480.8	466.1	439.5	423.0
130°	447.8	447.8	446.9	450.5	457.9	466.1	468.9	462.5	447.8	422.1	405.6
132.5°	430.4	431.3	431.3	434.9	441.4	447.8	451.5	444.1	429.4	404.7	388.2
135°	413.8	412.9	413.8	416.6	423.9	429.4	430.4	423.9	410.2	385.4	369.8
137.5°	394.6	395.5	395.5	398.2	404.7	410.2	411.1	403.8	390.0	366.1	350.5
140°	376.2	376.2	378.1	379.9	384.5	389.1	389.1	381.7	368.9	345.0	330.3
142.5°	357.0	357.0	357.9	361.5	365.2	368.0	367.0	359.7	346.9	323.9	311.1
145°	338.6	338.6	339.5	342.3	345.0	346.9	345.0	338.6	325.8	302.8	290.9
147.5°	321.2	320.2	322.1	323.9	325.8	326.7	324.8	317.5	303.7	284.5	271.6
150°	302.8	302.8	302.8	305.6	306.5	306.5	303.7	296.4	283.5	264.3	253.3
152.5°	284.5	283.5	284.5	285.4	286.3	285.4	281.7	274.4	262.4	245.0	234.9
155°	265.2	265.2	266.1	266.1	266.1	265.2	261.5	253.3	242.3	226.7	214.7
157.5°	246.8	246.8	246.8	246.8	246.8	245.0	240.4	233.1	220.2	206.5	199.1
160°	228.5	228.5	227.6	226.7	225.7	222.1	218.4	211.1	201.9	189.9	183.5
162.5°	208.3	207.4	207.4	206.5	205.5	202.8	198.2	191.8	183.5	173.4	167.9
165°	189.9	189.0	188.1	188.1	186.3	183.5	179.9	174.3	167.0	157.8	153.2
167.5°	173.4	172.5	171.6	171.6	169.8	166.1	162.4	157.8	151.4	144.1	140.4
170°	158.7	157.8	156.9	156.0	154.2	151.4	147.7	143.1	138.6	133.1	129.4
172.5°	144.1	143.1	142.2	142.2	140.4	137.6	134.9	131.2	127.5	123.0	121.1
175°	130.3	131.2	130.3	129.4	128.5	125.7	123.9	121.1	119.3	116.5	114.7
177.5°	119.3	120.2	120.2	119.3	118.4	116.5	115.6	113.8	112.9	111.0	110.1
180°	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3
2.5°	53.2	50.5	48.6	45.9	43.1	41.3	39.5	37.6	36.7	36.7
5°	55.1	52.3	48.6	45.0	42.2	38.5	36.7	34.9	34.0	34.0
7.5°	65.2	61.5	56.9	52.3	48.6	44.0	41.3	39.5	38.5	38.5
10°	76.2	71.6	66.1	60.6	56.0	51.4	47.7	45.0	44.0	44.0
12.5°	89.0	82.6	76.2	68.8	63.3	56.9	53.2	50.5	49.6	48.6
15°	102.8	94.5	86.3	77.1	69.7	63.3	57.8	54.1	53.2	53.2
17.5°	117.5	106.4	96.3	85.3	76.2	67.0	61.5	56.9	55.1	55.1
20°	133.1	120.2	106.4	93.6	81.7	71.6	63.3	58.7	56.0	56.0
22.5°	151.4	135.8	118.4	102.8	89.0	76.2	66.1	59.6	56.9	56.0
25°	170.7	151.4	132.1	113.8	96.3	80.8	69.7	62.4	57.8	57.8
27.5°	191.8	169.8	146.8	124.8	103.7	86.3	72.5	64.2	59.6	58.7
30°	214.7	189.0	162.4	135.8	111.9	91.8	76.2	66.1	61.5	60.6
32.5°	236.7	207.4	177.1	147.7	120.2	96.3	79.8	68.8	63.3	62.4
35°	260.6	227.6	192.7	159.7	128.5	101.9	82.6	70.7	65.2	64.2
37.5°	282.6	246.8	207.4	170.7	136.7	107.4	86.3	73.4	67.0	66.1
40°	303.7	266.1	223.9	182.6	145.0	112.9	89.9	76.2	68.8	67.9
42.5°	323.9	284.5	239.5	193.6	152.3	118.4	93.6	78.9	71.6	70.7
45°	344.1	301.0	254.2	204.6	160.6	123.0	97.3	80.8	74.3	72.5
47.5°	362.5	317.5	267.9	215.6	167.9	128.5	100.0	83.5	76.2	75.2
50°	379.9	334.0	280.8	226.7	175.3	133.1	103.7	86.3	78.9	78.0
52.5°	396.4	348.7	294.6	237.7	181.7	137.6	107.4	89.0	81.7	80.8
55°	412.0	363.4	306.5	246.8	189.0	142.2	110.1	92.7	84.4	83.5
57.5°	428.5	377.1	318.4	256.9	195.5	146.8	113.8	95.4	87.2	86.3
60°	441.4	390.0	329.4	265.2	201.9	151.4	117.5	98.2	89.9	89.0
62.5°	456.1	401.9	340.4	274.4	208.3	156.0	121.1	101.9	93.6	92.7
65°	468.0	413.8	350.5	282.6	213.8	159.7	123.9	104.6	96.3	95.4
67.5°	480.8	425.8	360.6	290.9	220.2	164.3	127.5	108.3	100.0	99.1
70°	491.8	435.9	369.8	298.2	226.7	168.8	131.2	111.0	103.7	101.9
72.5°	501.9	446.9	379.0	305.6	234.0	172.5	134.9	114.7	106.4	105.5
75°	511.1	455.1	387.2	312.0	238.6	176.2	137.6	117.5	110.1	108.3
77.5°	520.3	463.4	394.6	318.4	243.2	180.8	141.3	121.1	112.9	111.9
80°	527.6	469.8	401.0	323.0	246.8	183.5	144.1	123.9	115.6	114.7
82.5°	533.1	475.3	406.5	327.6	250.5	186.3	145.9	125.7	117.5	116.5
85°	537.7	479.9	410.2	331.3	254.2	188.1	148.7	127.5	119.3	118.4
87.5°	541.4	482.7	412.9	334.0	255.1	189.9	149.6	129.4	121.1	120.2
90°	543.2	484.5	414.8	334.9	256.9	190.9	150.5	130.3	122.0	121.1
92.5°	542.3	484.5	414.8	335.8	257.8	191.8	151.4	130.3	122.0	121.1
95°	541.4	483.6	413.8	334.9	256.9	191.8	151.4	130.3	122.0	121.1
97.5°	537.7	480.8	412.0	333.1	256.0	190.9	149.6	129.4	121.1	120.2
100°	533.1	475.3	408.3	330.3	254.2	189.0	148.7	127.5	119.3	118.4
102.5°	525.8	469.8	402.8	326.7	250.5	186.3	145.9	125.7	117.5	116.5
105°	517.5	462.5	396.4	321.2	246.8	183.5	143.1	123.0	114.7	113.8
107.5°	509.3	452.4	388.2	314.7	242.3	179.9	140.4	120.2	111.9	111.0
110°	498.3	443.2	379.9	308.3	236.7	175.3	136.7	116.5	109.2	107.4



REPORT NUMBER: P256776

CATALOG NUMBER: ULA-A5-D-U-ASYM-VMx-7027-BK

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	486.3	433.1	370.7	300.1	231.2	171.6	134.0	113.8	105.5	104.6
115°	474.4	421.2	360.6	292.7	223.0	167.0	130.3	111.0	102.8	101.9
117.5°	461.6	409.3	349.6	283.5	216.6	162.4	126.6	107.4	99.1	98.2
120°	447.8	397.3	338.6	274.4	210.1	157.8	123.0	104.6	96.3	95.4
122.5°	434.0	384.5	327.6	266.1	203.7	153.2	120.2	100.9	93.6	91.8
125°	419.3	370.7	315.7	256.0	197.3	149.6	116.5	98.2	90.8	89.9
127.5°	403.8	356.0	302.8	245.9	189.9	145.0	113.8	96.3	88.1	87.2
130°	387.2	342.3	290.9	236.7	183.5	140.4	111.0	93.6	85.3	84.4
132.5°	369.8	326.7	278.0	224.8	176.2	135.8	107.4	90.8	83.5	82.6
135°	351.4	311.1	264.3	213.8	168.8	131.2	104.6	89.0	81.7	80.8
137.5°	334.0	294.6	251.4	203.7	162.4	127.5	102.8	87.2	80.8	79.8
140°	313.8	277.1	236.7	193.6	155.1	123.0	100.0	85.3	78.9	78.0
142.5°	294.6	260.6	221.1	183.5	148.7	119.3	98.2	84.4	78.0	77.1
145°	276.2	244.1	208.3	174.3	142.2	115.6	95.4	83.5	78.0	77.1
147.5°	258.8	229.4	196.4	165.2	135.8	111.9	93.6	82.6	77.1	76.2
150°	241.3	212.0	183.5	156.0	130.3	108.3	92.7	81.7	77.1	76.2
152.5°	221.1	197.3	172.5	147.7	124.8	105.5	90.8	81.7	77.1	77.1
155°	205.5	183.5	161.5	139.5	120.2	103.7	90.8	82.6	78.0	78.0
157.5°	189.9	171.6	152.3	133.1	116.5	101.9	90.8	83.5	79.8	79.8
160°	175.3	159.7	143.1	127.5	112.9	100.9	90.8	84.4	81.7	80.8
162.5°	161.5	147.7	134.0	121.1	109.2	99.1	90.8	85.3	82.6	82.6
165°	147.7	136.7	125.7	115.6	106.4	97.3	90.8	87.2	84.4	84.4
167.5°	135.8	127.5	119.3	111.0	103.7	97.3	91.8	88.1	87.2	86.3
170°	126.6	120.2	113.8	107.4	101.9	96.3	92.7	90.8	89.0	89.0
172.5°	118.4	113.8	109.2	104.6	100.9	97.3	95.4	93.6	92.7	92.7
175°	112.9	110.1	107.4	104.6	102.8	100.0	99.1	98.2	97.3	97.3
177.5°	110.1	108.3	107.4	106.4	105.5	104.6	104.6	103.7	103.7	103.7
180°	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1

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