

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: P256797

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P256797  
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-A5-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: 4023.7 lumens  
Efficiency: N/A  
Efficacy: 109.6 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

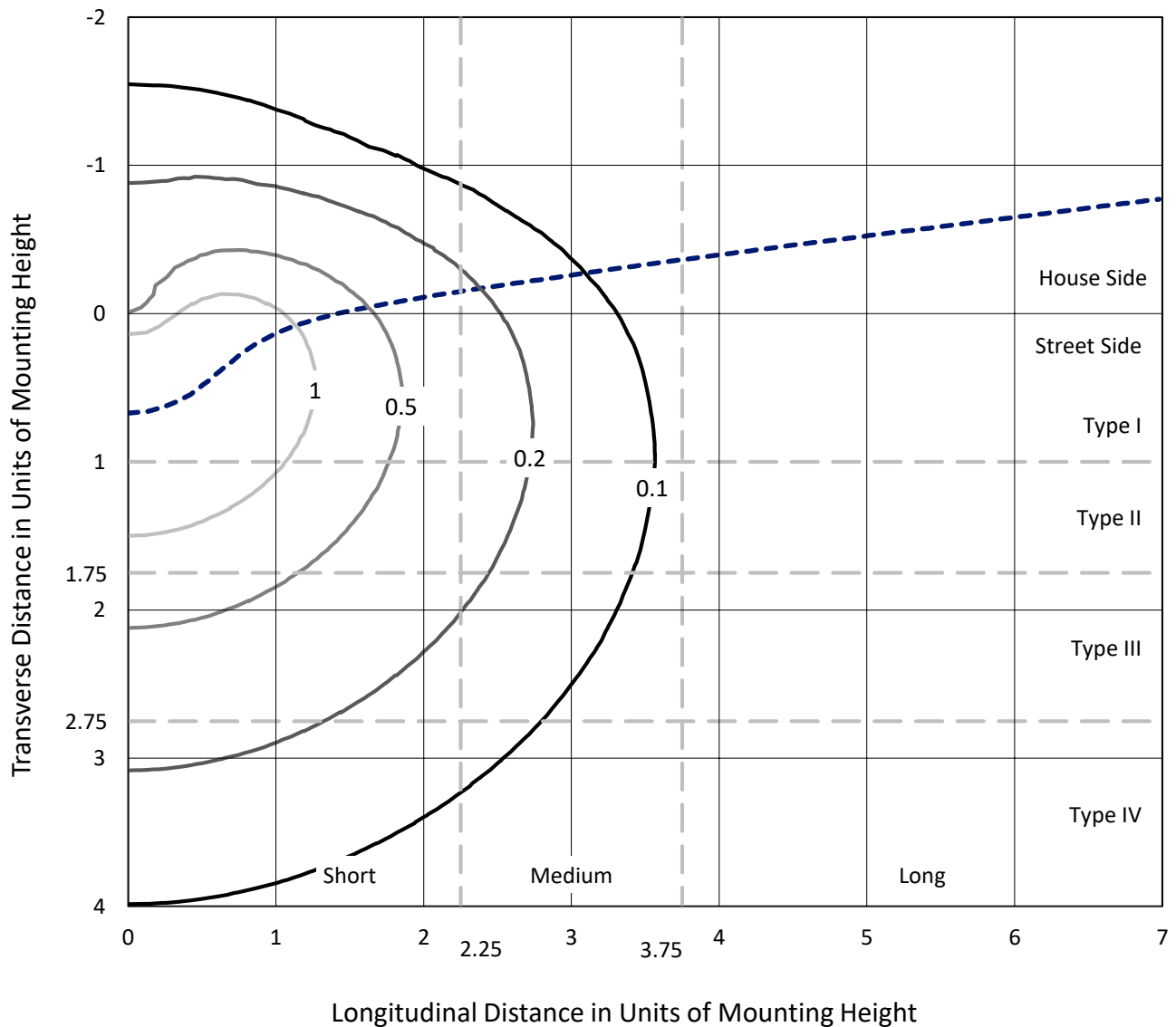


REPORT NUMBER: P256797

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

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

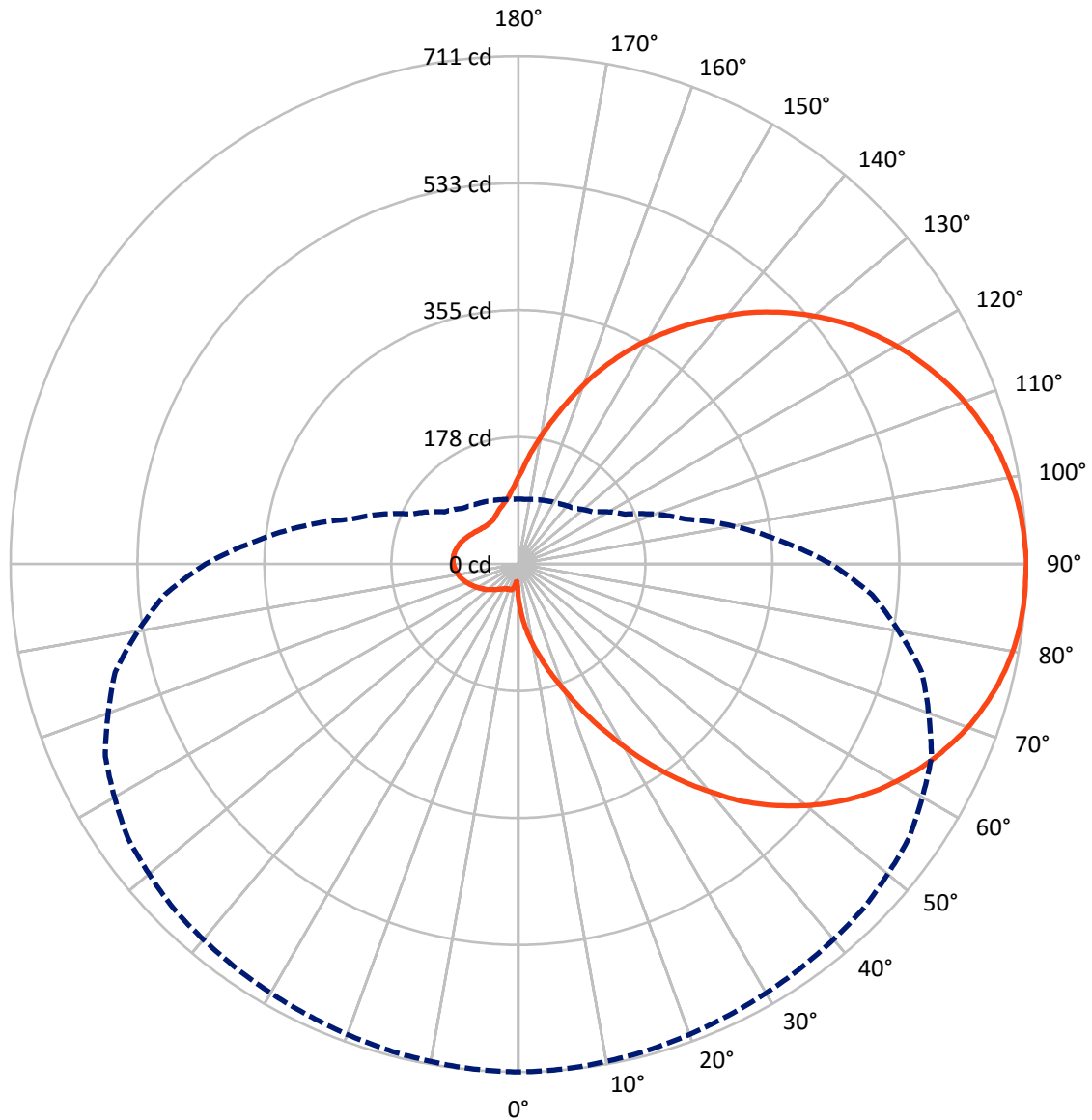


Based on 10 foot mounting height. Maximum calculated value = 2 fc  
 Type - Short - Non-Cutoff

REPORT NUMBER: P256797

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

### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 90-Deg Vertical



REPORT NUMBER: P256797

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

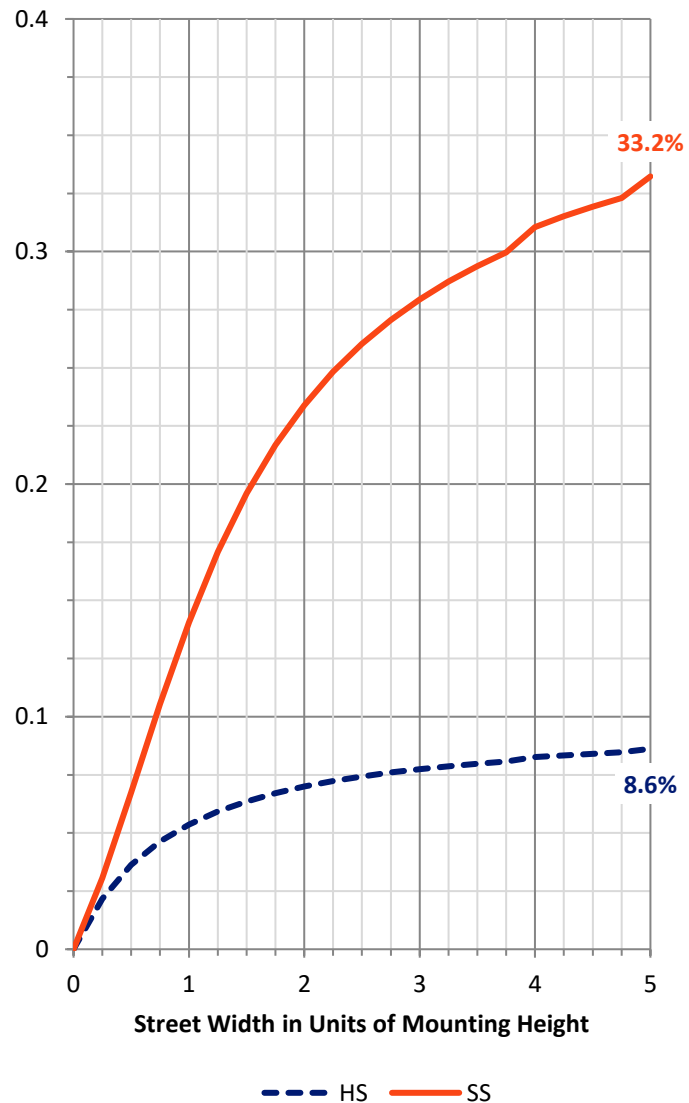
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	384.7	467.4	852.1
	% Fixture	9.6	11.6	21.2
<b>Street Side</b>	Lumens	1560.5	1611.1	3171.6
	% Fixture	38.8	40.0	78.8
<b>Total</b>	Lumens	1945.3	2078.4	4023.7
	% Fixture	48.3	51.7	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5.9	0.1
10°-20°	28.0	0.7
20°-30°	70.0	1.7
30°-40°	134.9	3.4
40°-50°	212.6	5.3
50°-60°	289.7	7.2
60°-70°	357.5	8.9
70°-80°	409.2	10.2
80°-90°	437.5	10.9
90°-100°	439.4	10.9
100°-110°	414.6	10.3
110°-120°	368.1	9.1
120°-130°	307.0	7.6
130°-140°	235.2	5.8
140°-150°	160.9	4.0
150°-160°	95.6	2.4
160°-170°	45.2	1.1
170°-180°	12.2	0.3
0°-90°	1945.3	48.3
0°-180°	4023.7	100.0



REPORT NUMBER: P256797

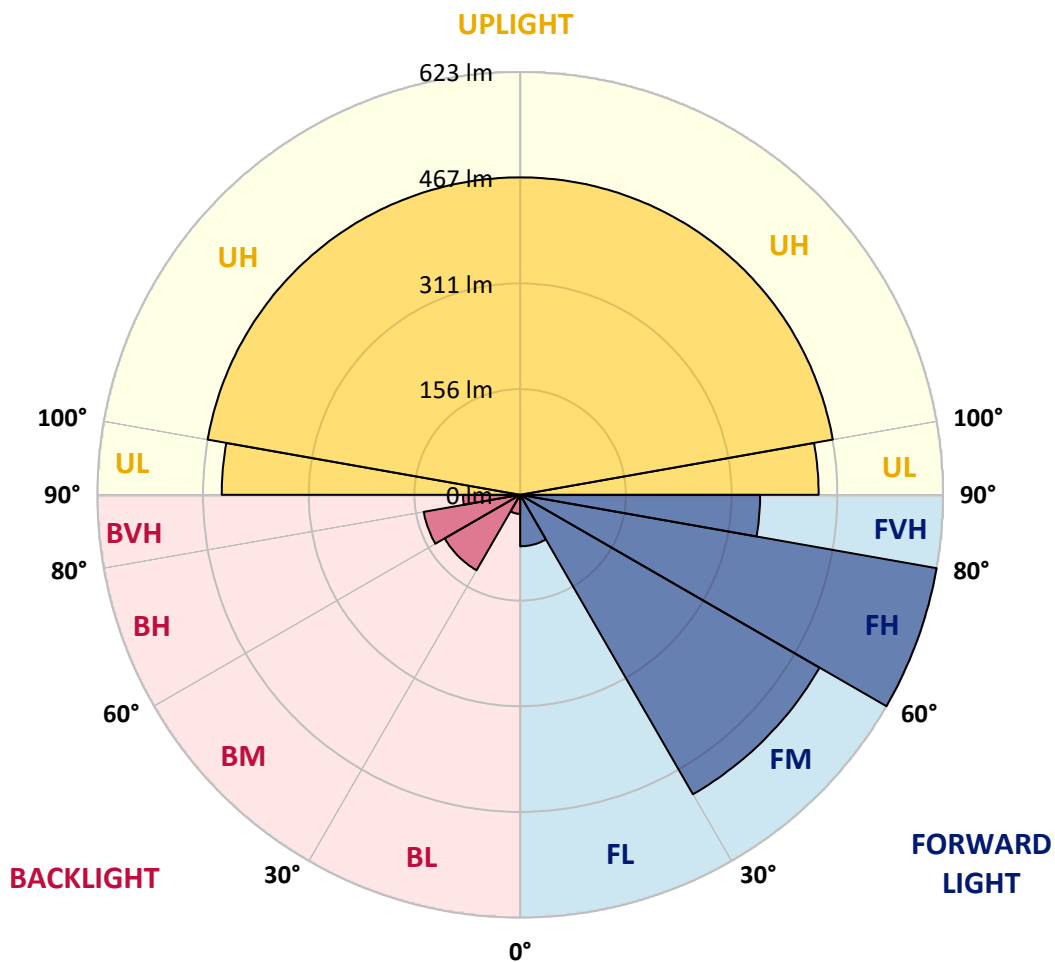
CATALOG NUMBER: ULA-A5-D-U-ASYM-VMx-7027-HSS-BK

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	75.8	1.9			
FM	(30°-60°)	509.0	12.6			
FH	(60°-80°)	622.5	15.5			G0/660
FVH	(80°-90°)	353.3	8.8			G3/500
BL	(0°-30°)	28.1	0.7	B0/110		
BM	(30°-60°)	128.3	3.2	B0/220		
BH	(60°-80°)	144.2	3.6	B1/500		G1/500
BVH	(80°-90°)	84.2	2.1			G1/100
UL	(90°-100°)	439.4	10.9		U3/500	
UH	(100°-180°)	467.4	11.6		U3/500	

**BUG Rating: B1-U5-G3**

Type Short





REPORT NUMBER: P256797

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

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
2.5°	66.4	65.3	65.3	64.7	64.7	62.3	60.0	57.7	54.8	53.0	51.9
5°	83.9	82.2	81.6	79.8	78.1	74.0	71.1	66.4	62.3	57.1	54.8
7.5°	100.2	99.1	97.3	95.0	93.2	88.0	83.9	78.1	72.8	67.0	64.7
10°	116.5	115.4	113.6	111.3	107.8	103.7	99.1	92.1	85.7	78.7	75.2
12.5°	132.3	131.7	130.5	128.2	125.3	120.6	115.4	107.8	100.2	90.9	86.2
15°	151.5	150.3	149.2	146.8	143.9	138.7	132.8	125.3	115.4	104.9	99.6
17.5°	170.7	169.6	169.6	167.8	164.3	159.7	153.2	143.9	131.7	118.9	111.9
20°	192.3	191.1	191.1	189.4	185.9	181.2	174.2	164.3	150.9	134.0	125.9
22.5°	216.8	215.6	215.6	213.8	210.3	205.7	198.1	187.0	171.3	153.2	142.2
25°	243.6	241.8	241.8	240.1	236.6	231.9	224.3	211.5	193.4	173.1	160.2
27.5°	269.8	269.8	268.6	268.6	265.1	260.5	252.3	238.3	217.9	193.4	178.3
30°	300.7	300.7	298.9	298.3	294.2	290.2	280.8	265.7	243.6	214.4	196.4
32.5°	331.0	331.0	329.2	328.6	324.0	319.9	310.0	293.7	268.6	234.8	215.0
35°	361.8	360.7	359.5	358.9	354.8	349.6	339.7	321.0	293.1	255.2	233.1
37.5°	391.6	391.6	390.4	388.6	385.1	378.7	367.1	347.3	317.6	275.6	250.0
40°	421.3	421.9	420.7	418.9	413.1	407.9	395.6	374.1	341.4	294.8	266.9
42.5°	452.7	451.0	449.2	447.5	441.7	435.3	422.4	399.7	364.2	313.5	282.6
45°	480.1	479.0	477.2	474.9	469.6	461.5	448.7	423.6	385.7	330.4	297.7
47.5°	505.8	505.2	502.3	499.3	494.7	485.9	472.0	446.3	406.1	347.3	311.1
50°	530.8	530.8	527.9	523.2	518.0	511.0	494.7	467.9	425.3	363.0	324.5
52.5°	554.1	553.5	549.5	544.2	539.5	532.0	516.2	488.3	443.4	377.6	336.2
55°	575.7	575.1	570.4	565.2	559.9	552.4	536.1	506.9	460.9	391.6	347.9
57.5°	595.5	594.9	590.2	583.8	578.6	571.0	554.1	523.8	476.6	404.4	358.9
60°	613.0	612.4	607.7	600.7	595.5	587.9	571.6	540.1	491.8	416.6	368.8
62.5°	630.4	629.3	624.0	617.0	610.6	603.6	587.3	555.9	506.3	428.3	378.2
65°	645.6	644.4	638.6	631.0	625.2	617.6	601.3	569.8	519.2	439.3	387.5
67.5°	659.0	657.8	652.0	643.8	638.0	630.4	614.7	582.7	530.8	449.2	395.6
70°	671.8	670.1	664.2	655.5	649.7	642.1	626.4	594.3	542.5	458.6	403.8
72.5°	681.7	680.6	674.1	665.4	659.0	652.6	636.9	604.8	552.4	467.3	411.4
75°	691.0	689.9	683.5	674.1	668.3	661.3	646.2	614.1	560.5	474.9	417.8
77.5°	698.0	696.9	690.5	681.1	675.3	668.3	653.2	621.7	567.5	481.3	423.0
80°	703.9	702.1	695.7	687.0	680.6	673.6	659.0	627.5	573.9	486.5	428.3
82.5°	707.4	706.2	700.4	691.6	685.2	677.6	663.1	632.2	578.0	491.2	431.8
85°	709.7	708.5	702.7	694.5	687.5	680.6	666.0	635.1	581.5	494.1	434.7
87.5°	710.3	709.7	704.4	696.3	689.3	681.7	667.2	636.9	583.8	496.4	436.4
90°	710.9	709.7	704.4	696.9	689.9	682.3	667.7	638.0	584.4	497.0	437.6
92.5°	709.1	708.5	703.9	696.3	689.9	681.1	666.6	637.4	584.4	497.6	438.2
95°	706.8	705.6	702.1	694.5	687.5	679.4	664.2	635.7	583.2	497.0	437.6
97.5°	702.7	702.1	698.6	691.0	684.6	675.9	660.7	632.2	580.3	494.7	436.4
100°	696.9	696.3	692.8	685.8	678.8	670.6	655.5	626.9	575.7	491.2	433.5
102.5°	691.0	689.9	686.4	679.4	673.0	664.8	649.7	621.7	570.4	487.1	430.6
105°	682.3	681.1	678.2	671.8	664.8	656.7	641.5	614.1	562.9	481.9	425.9
107.5°	673.0	671.8	668.9	662.5	655.5	647.9	633.4	606.0	555.3	476.0	421.3
110°	662.5	660.2	657.8	651.4	645.0	638.0	623.5	596.7	547.7	469.0	416.0



REPORT NUMBER: P256797

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

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	650.3	649.1	646.2	640.4	633.4	626.9	612.4	586.2	537.2	461.5	410.8
115°	636.9	635.7	632.8	626.9	621.1	614.7	601.3	573.9	527.3	453.9	405.0
117.5°	622.9	621.7	618.2	613.0	607.7	601.9	587.9	562.3	516.2	445.2	398.5
120°	607.7	606.6	603.6	599.0	593.7	587.9	574.5	548.9	504.6	436.4	391.6
122.5°	591.4	590.8	587.9	582.7	578.0	573.3	560.5	535.5	492.4	426.5	384.6
125°	574.5	573.3	570.4	565.8	562.3	557.0	544.2	519.7	479.0	416.0	376.4
127.5°	555.9	555.3	552.4	548.3	544.8	540.1	527.3	504.0	464.4	405.0	367.7
130°	536.1	536.1	532.0	529.6	526.7	521.5	509.3	486.5	448.7	392.1	357.8
132.5°	515.7	515.1	512.7	509.3	506.9	501.7	490.0	467.9	431.8	379.3	347.3
135°	494.7	494.1	490.6	488.3	486.5	481.3	469.0	448.1	414.3	365.3	335.6
137.5°	472.5	472.5	469.0	467.3	465.0	459.1	447.5	427.1	395.6	350.2	322.8
140°	448.7	448.7	446.3	443.4	441.7	435.3	424.2	404.4	375.2	333.3	308.8
142.5°	425.3	425.3	423.0	420.1	417.8	411.4	400.3	381.6	354.8	317.0	294.8
145°	402.6	402.6	400.9	398.0	395.0	388.6	377.6	359.5	335.0	300.1	280.8
147.5°	379.9	379.9	378.2	375.2	372.3	365.9	354.8	337.9	315.2	284.3	266.3
150°	357.2	357.2	354.8	351.9	349.6	342.6	332.1	315.8	295.4	266.9	251.1
152.5°	333.9	333.9	331.5	329.2	325.7	319.3	308.8	294.8	275.0	250.0	236.0
155°	310.0	308.8	307.6	305.3	301.8	295.4	285.5	272.7	254.6	233.1	220.8
157.5°	286.7	285.5	283.8	282.0	278.5	272.7	263.4	251.1	235.4	216.8	206.3
160°	261.6	262.8	261.0	259.3	255.8	249.4	241.2	230.7	216.8	200.4	191.7
162.5°	238.3	238.9	237.7	236.0	233.1	226.7	219.7	210.3	198.1	184.1	176.5
165°	216.2	216.8	215.6	213.8	210.9	205.1	199.3	190.5	180.0	169.0	162.6
167.5°	196.4	197.5	195.2	193.4	191.1	185.9	180.6	173.6	164.3	155.6	150.3
170°	177.1	178.9	176.5	175.4	173.1	169.0	163.7	158.5	150.9	143.3	138.7
172.5°	160.2	161.4	159.7	158.5	156.2	152.7	149.2	144.5	138.7	132.8	129.9
175°	144.5	144.5	143.9	141.6	141.0	138.7	135.8	132.8	129.9	125.9	123.5
177.5°	129.9	129.9	129.9	129.4	128.8	127.6	126.4	124.7	122.9	121.2	120.0
180°	119.4	119.4	119.4	119.4	119.4	119.4	119.4	119.4	119.4	119.4	119.4





REPORT NUMBER: P256797

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

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
2.5°	50.7	47.2	44.3	41.4	38.5	36.7	33.8	33.2	32.6	32.0
5°	52.4	47.8	42.5	38.5	34.4	30.3	27.4	25.6	24.5	24.5
7.5°	61.2	55.9	49.5	43.7	39.0	34.4	30.9	28.0	26.2	25.6
10°	71.1	64.1	56.5	49.5	44.3	39.0	34.4	31.5	30.3	30.3
12.5°	82.2	73.4	64.1	55.4	48.9	42.5	37.9	35.5	34.4	34.4
15°	93.2	82.2	71.1	60.6	52.4	46.0	41.4	38.5	37.3	37.3
17.5°	104.9	91.5	77.5	65.3	55.9	48.4	43.1	39.6	37.9	37.9
20°	117.1	100.2	83.9	69.3	58.3	49.5	43.7	39.6	37.9	37.3
22.5°	131.1	110.1	90.9	74.0	61.2	51.3	44.3	40.2	37.9	37.9
25°	146.8	120.6	97.9	78.1	63.5	52.4	44.9	40.2	38.5	37.9
27.5°	163.1	131.7	104.9	82.7	65.8	54.2	46.0	41.4	39.0	39.0
30°	179.5	142.8	111.3	86.2	68.2	55.4	47.2	42.5	40.2	39.6
32.5°	195.2	153.8	117.1	89.7	70.5	57.1	48.4	43.7	41.4	41.4
35°	209.2	162.6	122.4	92.1	72.3	58.8	50.1	44.9	42.5	42.5
37.5°	223.7	171.3	126.4	94.4	73.4	60.0	51.3	46.6	44.3	44.3
40°	237.1	178.9	129.9	96.1	74.6	61.2	53.0	48.4	46.0	46.0
42.5°	250.0	185.9	132.8	97.9	76.3	62.9	54.8	50.1	48.4	48.4
45°	261.6	191.1	135.2	99.1	77.5	64.7	57.1	52.4	50.7	50.1
47.5°	272.1	196.4	136.9	100.2	78.7	65.8	58.8	54.8	52.4	52.4
50°	282.0	201.0	138.7	100.8	79.8	67.6	61.2	57.1	55.4	55.4
52.5°	291.3	205.1	139.8	102.0	81.0	69.3	62.9	59.4	57.7	57.7
55°	300.1	209.2	142.2	103.1	82.7	71.7	65.3	61.8	60.0	60.0
57.5°	308.2	212.7	143.9	104.3	83.9	74.0	68.2	64.7	62.9	62.9
60°	315.8	215.6	145.1	105.5	85.7	76.3	70.5	67.0	65.3	65.3
62.5°	323.4	219.1	146.2	107.2	88.0	78.7	73.4	69.9	68.2	68.2
65°	330.4	222.0	148.0	109.0	89.7	81.0	75.7	72.8	71.1	70.5
67.5°	336.2	224.3	149.7	110.7	92.1	83.3	78.7	75.7	73.4	73.4
70°	342.0	227.2	152.1	112.5	94.4	86.2	81.0	78.1	76.3	75.7
72.5°	347.9	230.2	153.8	114.2	96.7	88.6	83.9	80.4	78.7	78.7
75°	353.1	232.5	156.2	116.5	99.1	91.5	86.2	83.3	81.0	81.0
77.5°	357.2	234.8	157.9	118.3	101.4	93.2	88.6	85.7	83.3	83.3
80°	360.7	236.6	159.7	120.6	103.7	95.6	90.9	87.4	85.7	85.1
82.5°	364.2	238.3	160.8	122.4	105.5	97.9	92.6	89.7	87.4	86.8
85°	365.9	240.1	162.6	124.1	107.2	99.6	94.4	90.9	89.1	88.6
87.5°	367.7	241.2	163.7	125.3	109.0	100.8	96.1	92.6	90.3	89.7
90°	368.8	242.4	164.9	127.0	110.1	102.5	97.3	93.2	90.9	90.9
92.5°	369.4	243.0	166.1	127.6	111.3	103.1	97.9	93.8	91.5	91.5
95°	369.4	243.6	167.2	128.8	112.5	103.7	98.5	94.4	92.1	91.5
97.5°	368.8	244.1	167.8	129.9	113.0	103.7	98.5	94.4	92.1	91.5
100°	367.1	243.6	169.0	130.5	113.0	103.7	97.9	93.8	91.5	90.9
102.5°	365.3	244.1	170.1	131.7	113.6	103.7	97.3	93.2	90.9	90.3
105°	362.4	244.7	171.3	132.3	113.6	103.1	96.7	92.1	89.7	89.1
107.5°	359.5	244.7	172.5	132.8	113.6	102.5	95.6	90.9	88.6	88.0
110°	356.6	245.9	174.2	134.6	113.6	102.0	94.4	89.7	86.8	86.8



REPORT NUMBER: P256797

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

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	353.7	246.5	176.5	135.8	114.2	100.8	92.6	88.0	85.1	85.1
115°	350.2	247.6	178.9	136.9	114.2	100.2	91.5	86.2	83.3	83.3
117.5°	346.7	248.8	180.6	138.7	114.8	99.6	90.3	84.5	81.6	81.6
120°	342.6	250.0	183.0	140.4	115.4	99.1	89.1	82.7	80.4	79.8
122.5°	338.5	250.0	185.3	143.3	116.0	98.5	88.0	81.6	78.7	78.1
125°	333.3	250.0	187.0	144.5	116.5	98.5	86.8	79.8	76.9	76.3
127.5°	327.5	249.4	188.8	145.7	116.5	97.9	85.7	78.7	75.2	75.2
130°	320.5	247.6	189.4	146.8	117.1	97.3	85.1	77.5	74.0	73.4
132.5°	313.5	245.3	189.4	148.0	117.7	97.3	83.9	76.3	72.8	72.3
135°	303.6	241.2	188.2	148.0	117.7	97.3	83.3	75.7	71.7	71.7
137.5°	293.7	236.6	186.5	146.8	117.7	96.7	83.3	75.2	71.1	70.5
140°	282.6	230.2	183.5	146.2	117.1	96.7	82.7	74.6	70.5	69.9
142.5°	270.9	223.7	180.6	145.1	117.1	96.7	82.7	74.6	70.5	69.9
145°	259.3	216.8	177.1	143.3	116.0	96.7	82.7	74.6	70.5	69.9
147.5°	247.1	209.2	173.1	140.4	115.4	96.7	83.3	74.6	71.1	70.5
150°	234.2	199.9	167.8	137.5	114.2	96.1	83.3	75.2	71.7	71.1
152.5°	221.4	190.5	161.4	134.0	113.0	96.1	83.9	76.3	72.8	72.3
155°	207.4	181.2	155.6	131.1	111.9	96.7	85.7	78.1	75.2	74.6
157.5°	194.6	171.9	149.7	128.2	111.3	97.3	87.4	80.4	77.5	76.9
160°	181.8	162.6	143.3	125.3	110.1	97.9	88.6	82.7	79.8	79.8
162.5°	169.0	152.7	135.8	121.2	108.4	97.9	90.3	85.1	82.2	82.2
165°	156.2	142.2	129.4	117.1	106.6	98.5	91.5	87.4	85.1	84.5
167.5°	145.1	134.0	123.5	114.2	105.5	99.1	93.2	89.7	88.0	88.0
170°	134.6	127.0	118.9	111.9	105.5	100.2	95.6	93.2	91.5	91.5
172.5°	127.0	121.8	116.0	110.7	106.0	102.0	99.1	97.3	96.1	95.6
175°	121.8	118.3	114.2	111.3	108.4	105.5	103.7	103.1	102.5	102.5
177.5°	119.4	117.1	115.4	113.6	112.5	111.3	110.7	110.1	110.1	109.5
180°	119.4	119.4	119.4	119.4	119.4	119.4	119.4	119.4	119.4	119.4

(END OF REPORT)