

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: P256794

Luminaire Tested: **ULA-A4-D-U-ASYM-VMx-7027-HSS-BK**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256794
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-A4-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: 3318.9 lumens
Efficiency: N/A
Efficacy: 111.7 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): 29.7
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



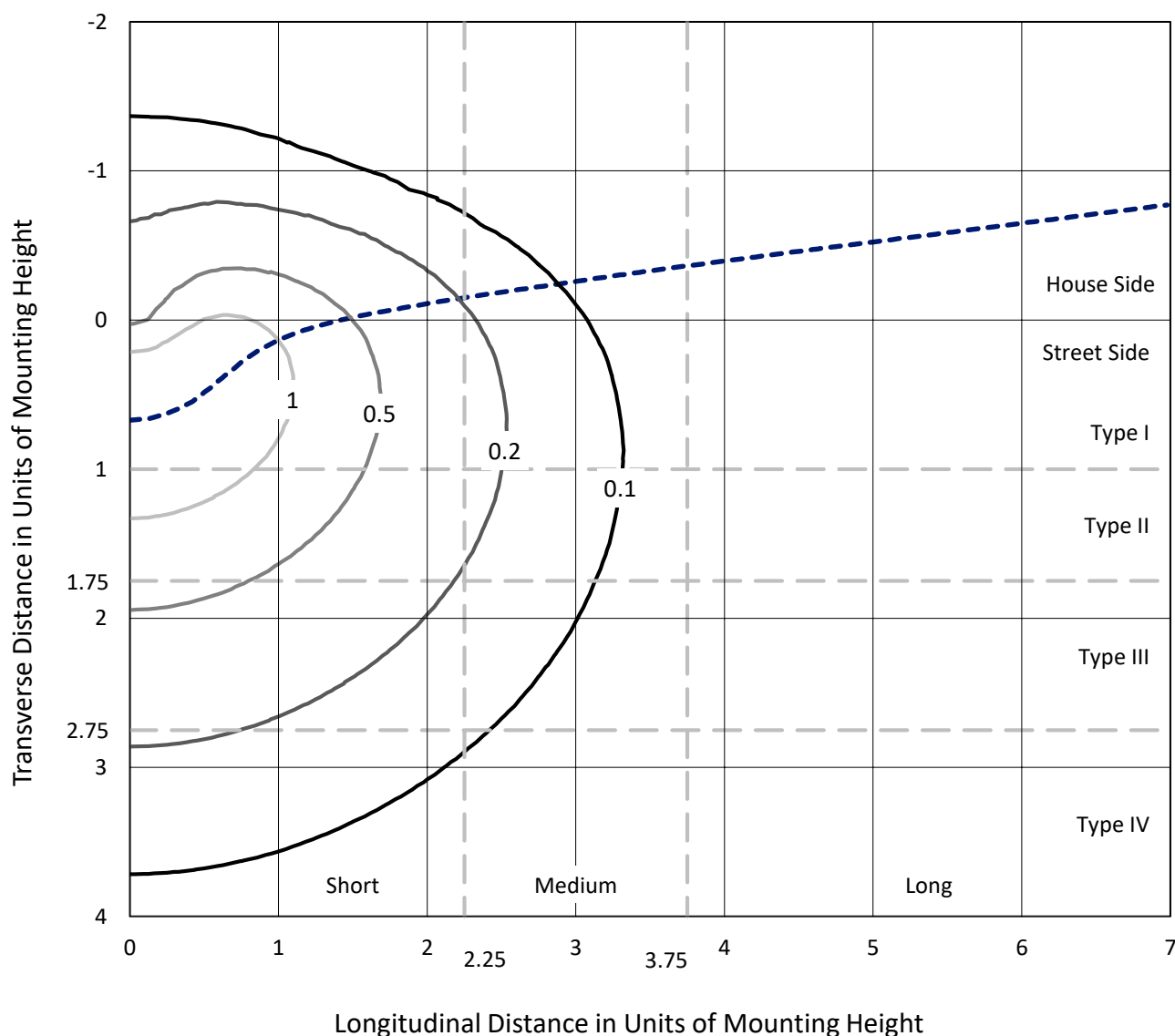
REPORT NUMBER: P256794

CATALOG NUMBER: ULA-A4-D-U-ASYM-VMx-7027-HSS-BK

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

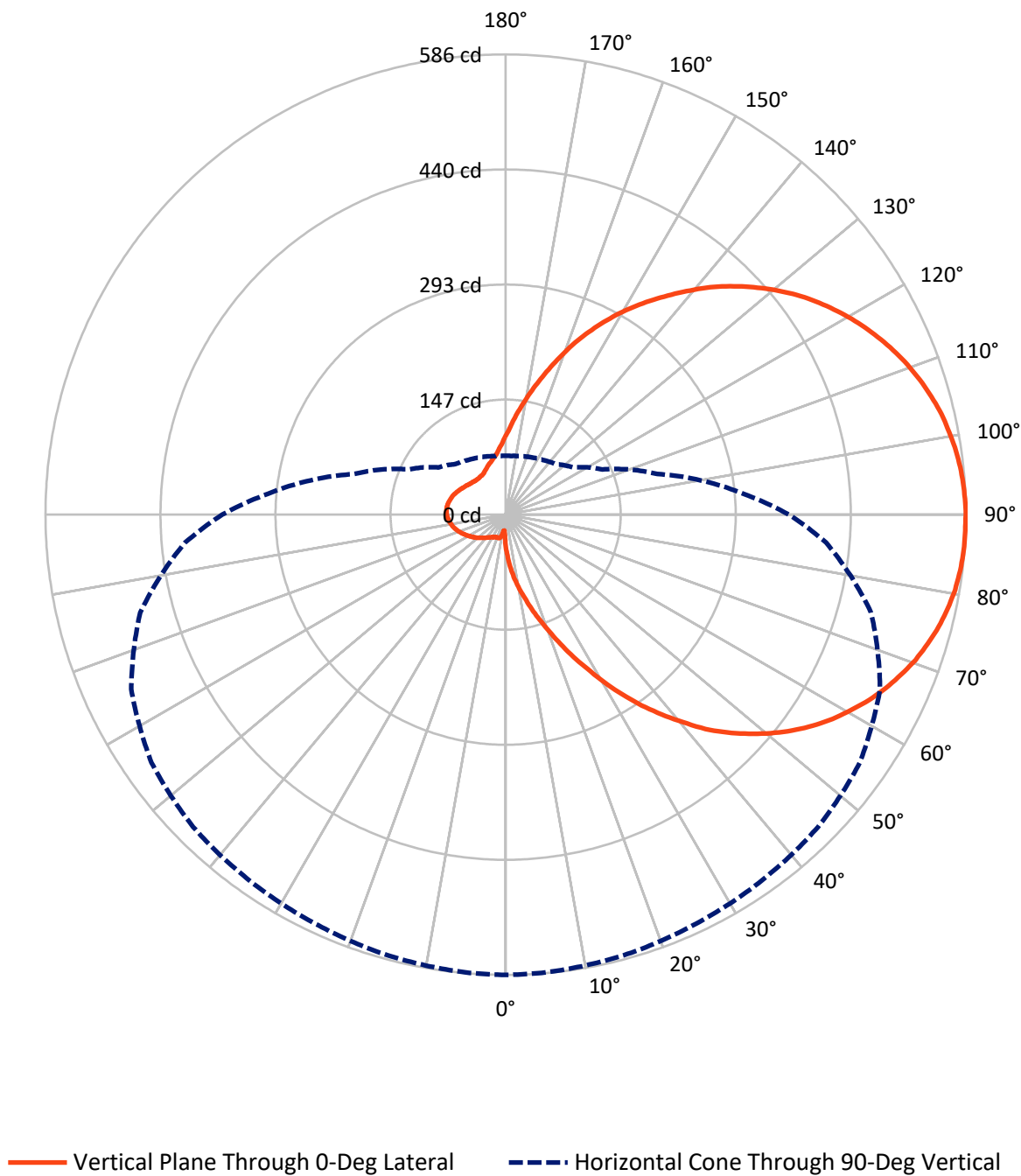


Based on 10 foot mounting height. Maximum calculated value = 1.6 fc
Type - Short - Non-Cutoff

REPORT NUMBER: P256794

CATALOG NUMBER: ULA-A4-D-U-ASYM-VMx-7027-HSS-BK

Luminous Intensity Polar Plot



REPORT NUMBER: P256794

CATALOG NUMBER: ULA-A4-D-U-ASYM-VMx-7027-HSS-BK

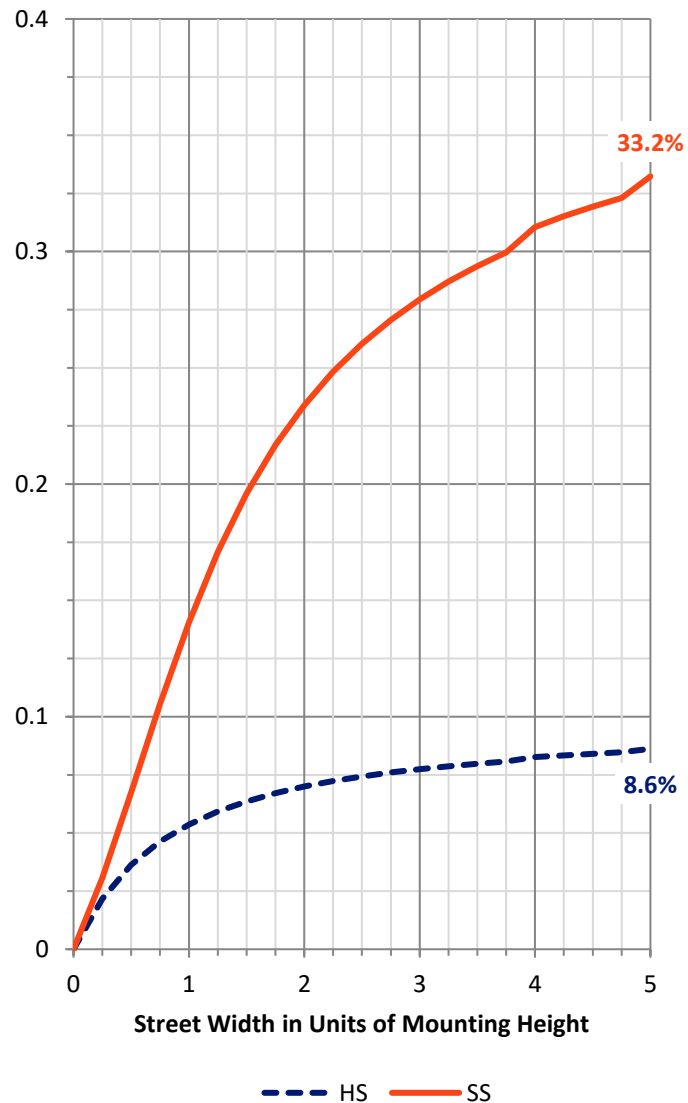
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	317.3	385.5	702.8
	% Fixture	9.6	11.6	21.2
Street Side	Lumens	1287.2	1328.9	2616.1
	% Fixture	38.8	40.0	78.8
Total	Lumens	1604.5	1714.3	3318.9
	% Fixture	48.3	51.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.8	0.1
10°-20°	23.1	0.7
20°-30°	57.8	1.7
30°-40°	111.3	3.4
40°-50°	175.4	5.3
50°-60°	239.0	7.2
60°-70°	294.9	8.9
70°-80°	337.5	10.2
80°-90°	360.8	10.9
90°-100°	362.4	10.9
100°-110°	342.0	10.3
110°-120°	303.7	9.1
120°-130°	253.2	7.6
130°-140°	194.0	5.8
140°-150°	132.7	4.0
150°-160°	78.9	2.4
160°-170°	37.3	1.1
170°-180°	10.1	0.3
0°-90°	1604.5	48.3
0°-180°	3318.9	100.0

Coefficient of Utilization



REPORT NUMBER: P256794

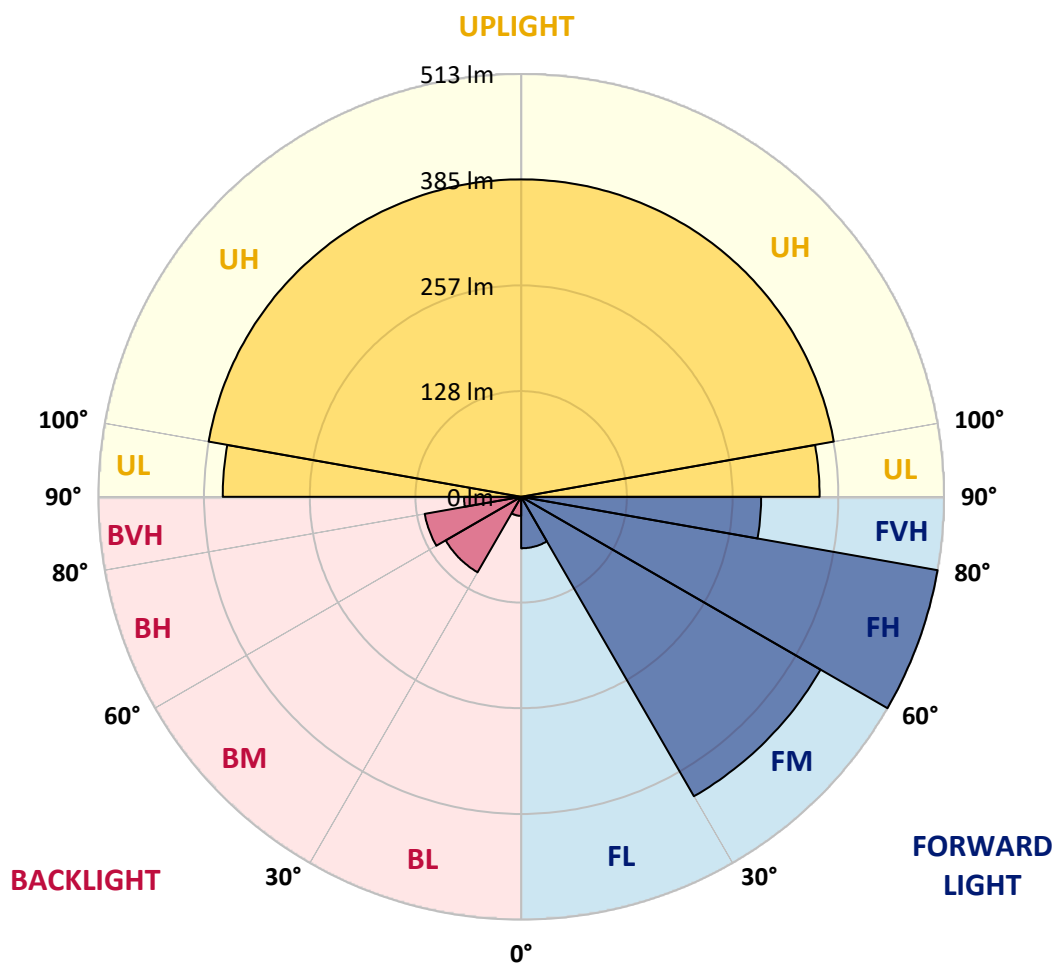
CATALOG NUMBER: ULA-A4-D-U-ASYM-VMx-7027-HSS-BK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	62.5	1.9			
FM	(30°-60°)	419.8	12.6			
FH	(60°-80°)	513.5	15.5			G0/660
FVH	(80°-90°)	291.4	8.8			G3/500
BL	(0°-30°)	23.2	0.7	B0/110		
BM	(30°-60°)	105.8	3.2	B0/220		
BH	(60°-80°)	118.9	3.6	B1/500		G1/500
BVH	(80°-90°)	69.5	2.1			G1/100
UL	(90°-100°)	362.4	10.9		U3/500	
UH	(100°-180°)	385.5	11.6		U3/500	

BUG Rating: B1-U5-G3

Type Short





REPORT NUMBER: P256794

CATALOG NUMBER: ULA-A4-D-U-ASYM-VMx-7027-HSS-BK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8
2.5°	54.8	53.8	53.8	53.3	53.3	51.4	49.5	47.6	45.2	43.7	42.8
5°	69.2	67.8	67.3	65.8	64.4	61.0	58.6	54.8	51.4	47.1	45.2
7.5°	82.7	81.7	80.3	78.3	76.9	72.6	69.2	64.4	60.1	55.3	53.3
10°	96.1	95.2	93.7	91.8	88.9	85.5	81.7	75.9	70.6	64.9	62.0
12.5°	109.1	108.6	107.7	105.7	103.3	99.5	95.2	88.9	82.7	75.0	71.1
15°	125.0	124.0	123.0	121.1	118.7	114.4	109.6	103.3	95.2	86.5	82.2
17.5°	140.8	139.9	139.9	138.4	135.5	131.7	126.4	118.7	108.6	98.0	92.3
20°	158.6	157.6	157.6	156.2	153.3	149.5	143.7	135.5	124.5	110.5	103.8
22.5°	178.8	177.8	177.8	176.4	173.5	169.7	163.4	154.3	141.3	126.4	117.3
25°	200.9	199.5	199.5	198.0	195.1	191.3	185.0	174.5	159.6	142.7	132.2
27.5°	222.5	222.5	221.6	221.6	218.7	214.8	208.1	196.6	179.7	159.6	147.1
30°	248.0	248.0	246.6	246.1	242.7	239.3	231.7	219.2	200.9	176.9	162.0
32.5°	273.0	273.0	271.5	271.1	267.2	263.9	255.7	242.2	221.6	193.7	177.3
35°	298.5	297.5	296.5	296.1	292.7	288.4	280.2	264.8	241.7	210.5	192.2
37.5°	323.0	323.0	322.0	320.6	317.7	312.4	302.8	286.4	261.9	227.3	206.2
40°	347.5	348.0	347.0	345.6	340.7	336.4	326.3	308.5	281.6	243.2	220.1
42.5°	373.4	372.0	370.5	369.1	364.3	359.0	348.4	329.7	300.4	258.6	233.1
45°	396.0	395.1	393.6	391.7	387.4	380.6	370.1	349.4	318.2	272.5	245.6
47.5°	417.2	416.7	414.3	411.9	408.0	400.8	389.3	368.1	335.0	286.4	256.6
50°	437.8	437.8	435.4	431.6	427.3	421.5	408.0	385.9	350.8	299.4	267.7
52.5°	457.1	456.6	453.2	448.9	445.0	438.8	425.8	402.7	365.7	311.4	277.3
55°	474.8	474.4	470.5	466.2	461.9	455.6	442.2	418.1	380.2	323.0	286.9
57.5°	491.2	490.7	486.9	481.6	477.2	471.0	457.1	432.1	393.1	333.5	296.1
60°	505.6	505.1	501.3	495.5	491.2	484.9	471.5	445.5	405.6	343.6	304.2
62.5°	520.0	519.1	514.7	509.0	503.7	497.9	484.5	458.5	417.6	353.2	311.9
65°	532.5	531.6	526.7	520.5	515.7	509.4	496.0	470.0	428.2	362.4	319.6
67.5°	543.6	542.6	537.8	531.1	526.3	520.0	507.0	480.6	437.8	370.5	326.3
70°	554.1	552.7	547.9	540.7	535.9	529.6	516.7	490.2	447.4	378.2	333.1
72.5°	562.3	561.3	556.1	548.9	543.6	538.3	525.3	498.9	455.6	385.4	339.3
75°	570.0	569.0	563.8	556.1	551.3	545.5	533.0	506.6	462.3	391.7	344.6
77.5°	575.8	574.8	569.5	561.8	557.0	551.3	538.8	512.8	468.1	397.0	348.9
80°	580.6	579.1	573.8	566.6	561.3	555.6	543.6	517.6	473.4	401.3	353.2
82.5°	583.5	582.5	577.7	570.5	565.2	558.9	546.9	521.5	476.8	405.2	356.1
85°	585.4	584.4	579.6	572.9	567.1	561.3	549.3	523.9	479.6	407.6	358.5
87.5°	585.9	585.4	581.1	574.3	568.6	562.3	550.3	525.3	481.6	409.5	360.0
90°	586.3	585.4	581.1	574.8	569.0	562.8	550.8	526.3	482.0	410.0	360.9
92.5°	584.9	584.4	580.6	574.3	569.0	561.8	549.8	525.8	482.0	410.4	361.4
95°	583.0	582.0	579.1	572.9	567.1	560.4	547.9	524.3	481.1	410.0	360.9
97.5°	579.6	579.1	576.2	570.0	564.7	557.5	545.0	521.5	478.7	408.0	360.0
100°	574.8	574.3	571.4	565.7	559.9	553.2	540.7	517.1	474.8	405.2	357.6
102.5°	570.0	569.0	566.2	560.4	555.1	548.4	535.9	512.8	470.5	401.8	355.2
105°	562.8	561.8	559.4	554.1	548.4	541.6	529.1	506.6	464.3	397.5	351.3
107.5°	555.1	554.1	551.7	546.4	540.7	534.4	522.4	499.8	458.0	392.7	347.5
110°	546.4	544.5	542.6	537.3	532.0	526.3	514.2	492.1	451.8	386.9	343.2



REPORT NUMBER: P256794

CATALOG NUMBER: ULA-A4-D-U-ASYM-VMx-7027-HSS-BK

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	536.4	535.4	533.0	528.2	522.4	517.1	505.1	483.5	443.1	380.6	338.8
115°	525.3	524.3	521.9	517.1	512.3	507.0	496.0	473.4	434.9	374.4	334.0
117.5°	513.8	512.8	509.9	505.6	501.3	496.5	484.9	463.8	425.8	367.2	328.7
120°	501.3	500.3	497.9	494.1	489.7	484.9	473.9	452.7	416.2	360.0	323.0
122.5°	487.8	487.3	484.9	480.6	476.8	472.9	462.3	441.7	406.1	351.8	317.2
125°	473.9	472.9	470.5	466.7	463.8	459.5	448.9	428.7	395.1	343.2	310.5
127.5°	458.5	458.0	455.6	452.3	449.4	445.5	434.9	415.7	383.0	334.0	303.3
130°	442.2	442.2	438.8	436.9	434.5	430.1	420.0	401.3	370.1	323.4	295.1
132.5°	425.3	424.9	422.9	420.0	418.1	413.8	404.2	385.9	356.1	312.9	286.4
135°	408.0	407.6	404.7	402.7	401.3	397.0	386.9	369.6	341.7	301.3	276.8
137.5°	389.8	389.8	386.9	385.4	383.5	378.7	369.1	352.3	326.3	288.8	266.3
140°	370.1	370.1	368.1	365.7	364.3	359.0	349.9	333.5	309.5	274.9	254.7
142.5°	350.8	350.8	348.9	346.5	344.6	339.3	330.2	314.8	292.7	261.4	243.2
145°	332.1	332.1	330.7	328.3	325.9	320.6	311.4	296.5	276.3	247.5	231.7
147.5°	313.4	313.4	311.9	309.5	307.1	301.8	292.7	278.8	260.0	234.5	219.6
150°	294.6	294.6	292.7	290.3	288.4	282.6	273.9	260.5	243.7	220.1	207.1
152.5°	275.4	275.4	273.5	271.5	268.7	263.4	254.7	243.2	226.8	206.2	194.6
155°	255.7	254.7	253.8	251.8	249.0	243.7	235.5	224.9	210.0	192.2	182.1
157.5°	236.5	235.5	234.1	232.6	229.7	224.9	217.2	207.1	194.2	178.8	170.1
160°	215.8	216.8	215.3	213.9	211.0	205.7	199.0	190.3	178.8	165.3	158.1
162.5°	196.6	197.0	196.1	194.6	192.2	187.0	181.2	173.5	163.4	151.9	145.6
165°	178.3	178.8	177.8	176.4	174.0	169.2	164.4	157.2	148.5	139.4	134.1
167.5°	162.0	162.9	161.0	159.6	157.6	153.3	149.0	143.2	135.5	128.3	124.0
170°	146.1	147.5	145.6	144.7	142.7	139.4	135.1	130.7	124.5	118.2	114.4
172.5°	132.2	133.1	131.7	130.7	128.8	125.9	123.0	119.2	114.4	109.6	107.2
175°	119.2	119.2	118.7	116.8	116.3	114.4	112.0	109.6	107.2	103.8	101.9
177.5°	107.2	107.2	107.2	106.7	106.2	105.3	104.3	102.8	101.4	100.0	99.0
180°	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5



REPORT NUMBER: P256794

CATALOG NUMBER: ULA-A4-D-U-ASYM-VMx-7027-HSS-BK

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8
2.5°	41.8	38.9	36.5	34.1	31.7	30.3	27.9	27.4	26.9	26.4
5°	43.3	39.4	35.1	31.7	28.4	25.0	22.6	21.1	20.2	20.2
7.5°	50.5	46.1	40.9	36.0	32.2	28.4	25.5	23.1	21.6	21.1
10°	58.6	52.9	46.6	40.9	36.5	32.2	28.4	26.0	25.0	25.0
12.5°	67.8	60.6	52.9	45.7	40.4	35.1	31.2	29.3	28.4	28.4
15°	76.9	67.8	58.6	50.0	43.3	38.0	34.1	31.7	30.8	30.8
17.5°	86.5	75.5	63.9	53.8	46.1	39.9	35.6	32.7	31.2	31.2
20°	96.6	82.7	69.2	57.2	48.1	40.9	36.0	32.7	31.2	30.8
22.5°	108.1	90.8	75.0	61.0	50.5	42.3	36.5	33.2	31.2	31.2
25°	121.1	99.5	80.7	64.4	52.4	43.3	37.0	33.2	31.7	31.2
27.5°	134.6	108.6	86.5	68.2	54.3	44.7	38.0	34.1	32.2	32.2
30°	148.0	117.7	91.8	71.1	56.2	45.7	38.9	35.1	33.2	32.7
32.5°	161.0	126.9	96.6	74.0	58.2	47.1	39.9	36.0	34.1	34.1
35°	172.5	134.1	100.9	75.9	59.6	48.5	41.3	37.0	35.1	35.1
37.5°	184.6	141.3	104.3	77.9	60.6	49.5	42.3	38.4	36.5	36.5
40°	195.6	147.5	107.2	79.3	61.5	50.5	43.7	39.9	38.0	38.0
42.5°	206.2	153.3	109.6	80.7	63.0	51.9	45.2	41.3	39.9	39.9
45°	215.8	157.6	111.5	81.7	63.9	53.3	47.1	43.3	41.8	41.3
47.5°	224.4	162.0	112.9	82.7	64.9	54.3	48.5	45.2	43.3	43.3
50°	232.6	165.8	114.4	83.1	65.8	55.8	50.5	47.1	45.7	45.7
52.5°	240.3	169.2	115.3	84.1	66.8	57.2	51.9	49.0	47.6	47.6
55°	247.5	172.5	117.3	85.1	68.2	59.1	53.8	50.9	49.5	49.5
57.5°	254.2	175.4	118.7	86.0	69.2	61.0	56.2	53.3	51.9	51.9
60°	260.5	177.8	119.7	87.0	70.6	63.0	58.2	55.3	53.8	53.8
62.5°	266.7	180.7	120.6	88.4	72.6	64.9	60.6	57.7	56.2	56.2
65°	272.5	183.1	122.1	89.9	74.0	66.8	62.5	60.1	58.6	58.2
67.5°	277.3	185.0	123.5	91.3	75.9	68.7	64.9	62.5	60.6	60.6
70°	282.1	187.4	125.4	92.8	77.9	71.1	66.8	64.4	63.0	62.5
72.5°	286.9	189.8	126.9	94.2	79.8	73.1	69.2	66.3	64.9	64.9
75°	291.2	191.8	128.8	96.1	81.7	75.5	71.1	68.7	66.8	66.8
77.5°	294.6	193.7	130.2	97.6	83.6	76.9	73.1	70.6	68.7	68.7
80°	297.5	195.1	131.7	99.5	85.5	78.8	75.0	72.1	70.6	70.2
82.5°	300.4	196.6	132.6	100.9	87.0	80.7	76.4	74.0	72.1	71.6
85°	301.8	198.0	134.1	102.4	88.4	82.2	77.9	75.0	73.5	73.1
87.5°	303.3	199.0	135.1	103.3	89.9	83.1	79.3	76.4	74.5	74.0
90°	304.2	199.9	136.0	104.8	90.8	84.6	80.3	76.9	75.0	75.0
92.5°	304.7	200.4	137.0	105.3	91.8	85.1	80.7	77.4	75.5	75.5
95°	304.7	200.9	137.9	106.2	92.8	85.5	81.2	77.9	75.9	75.5
97.5°	304.2	201.4	138.4	107.2	93.2	85.5	81.2	77.9	75.9	75.5
100°	302.8	200.9	139.4	107.7	93.2	85.5	80.7	77.4	75.5	75.0
102.5°	301.3	201.4	140.3	108.6	93.7	85.5	80.3	76.9	75.0	74.5
105°	298.9	201.9	141.3	109.1	93.7	85.1	79.8	75.9	74.0	73.5
107.5°	296.5	201.9	142.3	109.6	93.7	84.6	78.8	75.0	73.1	72.6
110°	294.1	202.8	143.7	111.0	93.7	84.1	77.9	74.0	71.6	71.6



REPORT NUMBER: P256794

CATALOG NUMBER: ULA-A4-D-U-ASYM-VMx-7027-HSS-BK

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	291.7	203.3	145.6	112.0	94.2	83.1	76.4	72.6	70.2	70.2
115°	288.8	204.3	147.5	112.9	94.2	82.7	75.5	71.1	68.7	68.7
117.5°	286.0	205.2	149.0	114.4	94.7	82.2	74.5	69.7	67.3	67.3
120°	282.6	206.2	150.9	115.8	95.2	81.7	73.5	68.2	66.3	65.8
122.5°	279.2	206.2	152.8	118.2	95.6	81.2	72.6	67.3	64.9	64.4
125°	274.9	206.2	154.3	119.2	96.1	81.2	71.6	65.8	63.4	63.0
127.5°	270.1	205.7	155.7	120.2	96.1	80.7	70.6	64.9	62.0	62.0
130°	264.3	204.3	156.2	121.1	96.6	80.3	70.2	63.9	61.0	60.6
132.5°	258.6	202.3	156.2	122.1	97.1	80.3	69.2	63.0	60.1	59.6
135°	250.4	199.0	155.2	122.1	97.1	80.3	68.7	62.5	59.1	59.1
137.5°	242.2	195.1	153.8	121.1	97.1	79.8	68.7	62.0	58.6	58.2
140°	233.1	189.8	151.4	120.6	96.6	79.8	68.2	61.5	58.2	57.7
142.5°	223.5	184.6	149.0	119.7	96.6	79.8	68.2	61.5	58.2	57.7
145°	213.9	178.8	146.1	118.2	95.6	79.8	68.2	61.5	58.2	57.7
147.5°	203.8	172.5	142.7	115.8	95.2	79.8	68.7	61.5	58.6	58.2
150°	193.2	164.8	138.4	113.4	94.2	79.3	68.7	62.0	59.1	58.6
152.5°	182.6	157.2	133.1	110.5	93.2	79.3	69.2	63.0	60.1	59.6
155°	171.1	149.5	128.3	108.1	92.3	79.8	70.6	64.4	62.0	61.5
157.5°	160.5	141.8	123.5	105.7	91.8	80.3	72.1	66.3	63.9	63.4
160°	149.9	134.1	118.2	103.3	90.8	80.7	73.1	68.2	65.8	65.8
162.5°	139.4	125.9	112.0	100.0	89.4	80.7	74.5	70.2	67.8	67.8
165°	128.8	117.3	106.7	96.6	88.0	81.2	75.5	72.1	70.2	69.7
167.5°	119.7	110.5	101.9	94.2	87.0	81.7	76.9	74.0	72.6	72.6
170°	111.0	104.8	98.0	92.3	87.0	82.7	78.8	76.9	75.5	75.5
172.5°	104.8	100.4	95.6	91.3	87.5	84.1	81.7	80.3	79.3	78.8
175°	100.4	97.6	94.2	91.8	89.4	87.0	85.5	85.1	84.6	84.6
177.5°	98.5	96.6	95.2	93.7	92.8	91.8	91.3	90.8	90.8	90.4
180°	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5

(END OF REPORT)